4-4-2000

Long-Range Building Program, 2002-2003 Biennium

University of Montana--Missoula. Office of the President

THE UNIVERSITY OF MONTANA

LONG-RANGE BUILDING PROGRAM

2002-2003 BIENNIUM

THE UNIVERSITY OF MONTANA, MISSOULA
MONTANA TECH OF THE UNIVERSITY OF MONTANA
WESTERN MONTANA COLLEGE OF THE UNIVERSITY OF MONTANA
HELENA COLLEGE OF TECHNOLOGY OF THE UNIVERSITY OF MONTANA

THE UNIVERSITY OF MONTANA

LONG-RANGE BUILDING PROGRAM

2002-2003 BIENNIUM

April 4, 2000

The University of
Montana

Office of the President
The University of Montana
Missoula, Montana 59812-1291

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The University of Montana Missoula

Montana Tech of The University of Montana Butte

Western Montana College of The University of Montana Dillon

Helena College of Technology of The University of Montana Helena

April 4, 2000

TO: Richard Crofts, Commissioner of Higher Education

FROM : G.M. Dennison, President

SUBJECT: 2002-2003 Long Range Building Program

I enclose The University of Montana's 2002-2003 Long Range Building Program. The book details the building plans for the four campuses of The University of Montana for the next three biennia.

I look forward to discussing these proposals with you.

Enclosure

c: A. Capdeville, Dean, Helena College of Technology
F. Gilmore, Chancellor, Montana Tech of The University of Montana
Stephen Hulbert, Chancellor, Western Montana College of The University of Montana
V. Scott Cole, Vice President for Administration and Finance, The University of Montana

Campus Identification

The University of Montana's Long-Range Building Program request for the 2002-2003 biennium includes all of the affiliated campuses. The individual elements comprising a particular project have been identified with the following (unofficial) acronyms:

M	The University of Montana-Missoula
MC	Missoula College of Technology of The University of Montana
B	Montana Tech of The University of Montana
D	Western Montana College of The University of Montana
HC	Helena College of Technology of The University of Montana
UM	All Campuses within The University of Montana

THE UNIVERSITY OF MONTANA
LONG-RANGE BUILDING PROGRAM
2002-2003 Biennium

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THE UNIVERSITY OF MONTANA -ALL CAMPUSES
SUMMARY OF PRIORITIES FOR
LONG-RANGE BUILDING PROGRAM
2002-2003 BIENNIUM

1.	**REPLACE PRIMARY POWER DISTRIBUTION SYSTEM**			**$353,060**
				(Failed Building/Utility Systems)
D	2483	Repair/Replace - Major Utility Primary PowerNetwork	353.060	
2.	**HEATING PLANT STEAM DISTRIBUTION REPAIR/UPGRADE - PHASE II**			**$675,000**
				(Failed Building/Utility Systems)
B	2438	Heating Plant/Steam Distribution Repair/Upgrade - Phase II	675.000	
3.	**REPLACE HVAC SYSTEM IN SCIENCE COMPLEX PHASE II**			**$2,956,000**
				(Life Safety/Code Compliance + Failed Building/Utility Systems)
M	1234	Replace HVAC System in Science Complex Phase II	2.956.000	
4.	**RENOVATION OF CHEM/PHARM BUILDING**			**$6,250,000**
				(Life Safety/Code Compliance + Deferred Maintenance)
M	2474	Renovation of the Chem/Pharm Building	6.250.000	
5.	**REPLACE CAMPUS PRIMARY RADIAL SYSTEM WITH LOOP FEED**			**$482,000**
				(Failed Building/Utility Systems)
B	2486	Campus Primary Feed/Loop Feed	482.000	
6.	**REPLACE UPGRADE FIRE ALARM SYSTEMS IN VARIOUS LOCATIONS ON CAMPUS**			**$225,000**
				(Life Safety/Code Compliance)
D	2287	Standards/Codes Compliance - Fire Suppression Systems	225.000	
7.	**REPLACE HVAC SYSTEM - MINING GEOLOGY BUILDING**			**$701,400**
				(Life Safety/Code Compliance + Deferred Maintenance)
B	2231	Repair/Replace HVAC System - Mining Geology Building	701.400	
8.	**REPLACE BOILER #3 UPGRADE TO 120,000 # PER HOUR**			**$1,380,000**
				(Failed Buildng/Utility Systems)
M	2406	Boiler #3 upgrade to 120,000 # per hr. (auxiliary component of this project is 226.500 not in total)	1.380.000	
9.	**DISABILITY ACCESS RENOVATIONS ALL CAMPUSES**			**$1,766,816**
				(Disability Access)
D	2485	Renovation Disability Access - Phase I	416.816	
B	2487	Renovation Disability Access	200.000	
M	2472	Renovations - Disability Access (Elevators Math, McGill)	1.150.000	
10.	**RENOVATION OF TEACHING CLASSROOMS AND LABORATORIES PHASE III**			**$5,000,000**
				(Deferred Maintenance and Preservation)
UM	2471	Repair/Replace Teaching Classroom and Laboratories	5.000.000	
11.	**RENOVATE PETROLEUM BUILDING**			**$4,850,000**
				(Deferred Maintenance and Preservation)
B	2264	Petroleum Building (renovation)	4.850.000	

12.	**RENOVATE MAIN HALL - PHASE I**			**$3,851,100**
				(Deferred Maintenance and Preservation)
D	2315	Main Hall Remodeling Phase I		3,851,100
13.	**REPLACE/UPDATE HEALTH SCIENCES HVAC SYSTEM**			**$431,000**
				(Deferred Maintenance and Preservation)
M	2467	Repair/Replace Animal Lab HVAC system Health Sciences Building		431,000
14.	**ROOF REPLACEMENTS ALL CAMPUSES**			**$919,538**
				(Deferred Maintenance and Preservation)
M	834	Replace Roof, Fine Arts		105,000
M	1195	Replace Linguistics Roof		77,500
D	2450	Roof Structural Reinforcement - Old Gym/Pool Roof		48,000
M	1357	Replace Roof , Liberal Arts		188,125
D	2276	Roof Replacement - Industrial Technology Metals Building		28,400
M	2463	Replace Roof, McGill		91,062
D	2284	Roof Replacement - Office Classroom Building		60,000
M	2464	Replace Roof, Pharmacy/Psychology (Skaggs Bldg.)		70,875
D	2488	Miscellaneous Roof Repairs		24,000
M	1282	Replace Roof (flat areas), Brantly Hall		10,000
M	669	Replace roof, 724 Eddy		14,875
M	2140	R/R Replace roof, Law School		116,875
M	882	New Roof Construction, Education Building		51,139
M	1399	R/R New Roof, Clinical Psych		33,687
15.	**NEW CONSTRUCTION - HELENA COLLEGE OF TECHNOLOGY ADDITION**			**$4,686,000**
				(New Construction - Renovations)
H	2489	Helena College of Technology - Classroom/Office Building		4,686,000
16.	**NEW CONSTRUCTION - MBMG BUILDING**			**$7,200,000**
				(New Construction - Renovations)
B	2263	Construct new MBMG Building		7,200,000
17.	**RENOVATE THE FRESH AIR AND VENTILATION SYSTEMS - PARTV**			**$411,000**
				(Life Safety/Code Compliance + Deferred Maintenance)
M	168	New Shop and Ventilation System. Install fresh air make up.P.A.R.T.V.		411,000
18.	**REPLACE MANSFIELD LIBRARY CARPET**			**$1,079,755**
				(Deferred Maintenance and Preservation)
M	2321	Replace Carpet, Mansfield Library		1,079,755
19.	**REPLACEMENTS AND RENOVATIONS OF SAFETY SYSTEMS - ALL CAMPUSES**			**$2,158,000**
				(Life Safety/Code Compliance)
M	2400	Potable Water Backflow Prevention and Booster Pumps at Buildings		175,000
M	2401	Second Exit Stairwells, Fourth Floor Fine Arts Bldg.		650,000
M	491	Upgrade Fire Alarm System, Health Science		65,000
M	327	Upgrade Fire Alarm System, Math		50,000
M	351	Upgrade Replace Fire Alarm, Social Science		50,000
B	2223	Replace Fire Alarm System/Exit/Emer. Lghtng. - Eng. Hall		36,000
D	2311	Install Fire Sprinkler System - Old Main Hall		233,000
M	366	Upgrade Replace Fire Alarm, Forestry		40,000
B	2224	Replace Fire Alarm System/Exit/Emer. Lghtng. - Main Hall		65,000
M	428	Upgrade Replace Fire Alarm, School of Education		30,000
B	2225	Replace Fire Alarm System/Exit/Emer. Lghtng. - Museum Bldg.		37,000
M	399	Upgrade Replace Fire Alarm, Journalism		40,000

B	2441	Replace Fire Alarm System/Exit/Emer. Lghtng. - S/E Bldg.	65,000
M	437	Upgrade Replace Fire Alarm, Music	40,000
B	2250	Retrofit/Install Dust Collection/Ventilation Sys. - Shops	17,000
M	2475	Upgrade Replace Fire Alarm, Science Complex	65,000
M	2465	Seismic Bracing, Mansfield Library	500,000

20. REMOVAL AND/OR ENCAPSULATION OF ASBESTOS CONTAINING MATERIALS - DILLON **$211,000**

(Life Safety/Code Compliance)

D	2302	Eliminate Hazardous Materials	211,000

21. CONSTRUCTION NEW ELECTRICAL SUBSTATION **$1,906,800**

(New Construction/Renovation)

M	2476	Construct Electrical Sub Station for Missoula Campus	1,906,800

22. RENOVATIONS TO RE-MEDIATE EXHAUST SYSTEM NOISE - CHEMISTRY BLDG. **$75,000**

(New Construction/Renovation)

B	2490	Re-mediate noise from exhaust systems - Chemistry Building	75,000

23. DEFERRED MAINTENANCE - ENVELOPE - ALL CAMPUSES **$1,523,800**

(Deferred Maintenance and Preservation)

M	918	Windows replacements, Natural Science	199,700
B	2238	Windows replacements, Petroleum Building	178,000
M	774	Tuckpoint/Caulk/Clean Schreiber Gym	85,700
B	2226	Masonry Repair (tuck point, replace brick - Petroleum Bldg.	54,000
M	832	Replace Exterior Windows, Fine Arts	186,000
B	2227	Ornamental Terra-Cotta Repair (tuck point) - Museum Bldg.	47,000
M	118	Tuckpointing, Fine Arts	140,900
B	2230	Exterior Finishes (repair/paint) - Campus	85,000
M	1298	Repair/Replace Retaining Wall Schreiber Gym	169,000
B	2229	Repair/Restoration - Main Hall	210,000
M	19	Entrance doors worn out, LA	35,800
B	2228	Repair Granite Steps - Main Hall	6,500
M	115	Tuckpoint/waterproof/clean Heating Plant	110,200
B	2248	Structural Integrity Study - Engineering Hall	8,500
B	2249	Subsidence Investigation - Library	7,500

24. EXTERIOR SITE - SIDEWALKS & ROADWAYS REPLACEMENTS **$1,974,550**

(Deferred Maintenance and Preservation)

M	2186	Construct Fire Lanes, Music	195,000
B	2258	Repair Streets	440,000
D	2300	Sidewalk Replacement	42,350
M	232	Construct Fire Lanes, Campus	300,000
B	2246	Curbs/Gutters/Sidewalks	90,000
D	2454	Resurface Campus Roadways	165,000
M	2409	Resurface Portion of Physical Plant Compound	135,000
B	2262	Lighting	20,500
MC	2396	Replace Access Road to W COT	92,000
M	2466	Driveway Access to Research Facility - Fort Missoula	100,000
M	139	Sidewalk Replacement/Upgrade	394,700

25. REPLACE MANSFIELD LIBRARY HUMIDIFICATION SYSTEM

$695,600

(Deferred Maintenance and Preservation)

M	143	Replace Humidification System, Mansfield Library	695,600

26. DISABILITY ACCESS RENOVATIONS ALL CAMPUSES

$10,540,575

(Disability Access)

		PRIORITY LISTING:	
M	152	Install elevator, Liberal Arts West	700,000
M	211	Install elevator, Natural Sciences	625,000
M	207	Install elevator, Law School	450,000
B	2201	Install elevator, Petroleum Building	375,000
M	210	Install elevator, Rankin Hall	700,000
B	2202	Install elevator, Engineering Hall	145,000
M	2470	Install elevator, Music	625,000
B	2203	Install Elevator, Main Hall	390,000
M	2469	Install elevator, University Hall	700,000
B	2204	Retrofit/Adaptation Existing elevators (3)	187,000
M	2468	Install elevator, Forestry	700,000
M	2420	Install elevator, Schreiber Gym	450,000
UM	2458	Assistive Listening Device, Various Buildings	245,375
M	362	No visual or audible signals in elevator	74,500
B	2200	Handrails (Stairs/Tiered Classrooms)	17,500
B	2209	Adaptations/relocation (Fire alarms & extng/Tele./etc.)	10,700
B	2210	Laboratory Adaptations (Fume. Hds/Lab Equip./Sinks/etc.)	28,000
B	2211	Drinking Fountains	10,500
B	2212	Signage	42,000
B	2213	Emergency Evacuation Areas	200,000
B	2214	Transportation	45,000
B	2215	Telecommunication Display Devices	25,000
		NO PRIORITY LISTING:	
		Music	
M	438	Non-compliant room signage (100)	3,000
M	439	Non-compliant door handles (80)	36,000
M	440	Single leaf or doors not 32" wide in Rm. 115	14,000
M	441	No accessible work station in classrooms	7,000
M	14	Non-compliant rest room in Rm. 118, 121,122,123	52,000
M	447	No emergency phone in elevator	1,000
M	448	Door to Dept. Chair's office	5,000
		Liberal Arts	
M	461	Non-compliant room signage (320)	10,000
M	462	Non-compliant door handles (275)	124,000
M	464	29" opening on all doors in west wing	141,000
M	465	Single leaf door not 32" wide Rm 204	5,000
		Mansfield Library	
M	587	Non-compliant room signage (100)	3,000
M	588	Non-compliant door handles (54)	24,000
M	589	No area of rescue assistance	56,000
M	595	Non-accessible mirrors in rest rooms	5,000
M	594	No emergency phone in elevator	1,000
		(264 more projects listed under general narrative on Request form totaling)	3,308,000

27. ROOF REPLACEMENTS — $259,900

(Deferred Maintenance and Preservation)

M	733	Replace Roof Drain Pans. PARTV	23.300
M	2411	New Roof Bldg. 25	236.600

28. DEFERRED MAINTENANCE - ENVELOPE — $4,531,800

(Deferred Maintenance and Preservation)

M	1401	Tuckpointing. North Corbin. Corbin. Brantley	174.000
M	97	Tuckpoint. Mathematics	42.000
D	2493	Miscellaneous Repairs. Window Replacement. Glazing and Painting	347.800
M	1286	Replace Single-pane Glass Health Science	436.000
M	947	Clean/Tuckpoint/waterproof Forestry	33.000
M	1681	R/R Paint Exterior	55.000
M	126	Tuckpoint. Business Administration	62.000
M	928	Clean/tuckpoint/waterproof Soc. Science	100.000
M	134	Entrances. Exit & Door Renovate	20.000
M	285	Install New Entrance Doors, Chemistry	13.000
M	905	Exterior doors Replacement Music	51.000
M	790	Replace Exterior Windows. Linguistics	68.000
M	108	Tuckpoint. Natural Sciences	57.000
M	1162	Exterior doors Replacement McGill	42.000
M	907	Seal/clean/waterproof bricks Music	38.000
M	775	Replace Exterior Windows. Schreiber Gym	182.000
M	1159	Replace Exterior Windows. Forestry	276.000
M	103	Renovate Windows. Rankin Hall	182.000
M	883	Clean/tuckpoint/waterproof Liberal Arts Building	168.000
M	797	Replace Exterior Windows. Journalism	322.000
M	940	Replace Exterior Windows. Natural Sciences Annex	47.000
M	1382	Tuckpointing. Science Complex	138.000
M	721	Tuckpointing. McGill	61.000
M	1479	Tuckpoint - AD & HB Buildings	8.000
M	1432	Replace Doors. Forestry Green House	14.000
M	1259	Step Repairs. Journalism	7.000
M	124	Tuckpoint. Chemistry	77.000
M	2190	Replace Exterior Windows & Insulation. Elrod Hall. Biological Station	130.000
M	761	Replace Exterior Windows. Math	176.000
M	125	Replace Steps. Chemistry	46.000
M	74	Replace Exterior Windows. UH	310.000
M	21	Replace Exterior Windows. McGill	262.000
M	1386	Tuckpointing. Pharmacy	120.000
M	23	Renovate exterior. Art Annex	250.000
M	782	Tuckpoint/clean/waterproof Linguistics	33.000
M	902	Windows Replacement. Music	112.000
M	2433	Clean & Waterproofing Masonry University Hall	72.000

29. DEFERRED MAINTENANCE - H & V, SEWER AND WATER SYSTEMS — $2,607,725

(Deferred Maintenance and Preservation)

D	2453	Repair/Replacement - Water and Sewer Repairs	45,375
M	1616	Replace Steam Tunnel Extension, BA to Health Services	696,300
M	1151	Install Underground Utility Lines, Biological Station	130,000
M	2427	Replace buried steam lines serving Music, Education and Law buildings	1,625,000
D	2484	Repair/Replacement - Utilities	111,050

30. DEFERRED MAINTENANCE - FLOORING SYSTEMS — $838,849

(Deferred Maintenance and Preservation)

B	2243	Replace Carpet/Tile - Main Hall	36,000
D	2299	Replace Carpet - Lib. Admin., Old Main, Office Classrm Bldg. and IT Bldg.	42,449
B	2244	Replce Carpet/Tile - Engineering Hall	23,000
B	2245	Replace Carpet/Tile - Petroleum Building	32,000
B	2444	Replace Carpet Circulation Areas - Science/Engineering Bldg.	16,000
M	2322	Replace Carpet, Academic and General Buildings	689,400

31. DEFERRED MAINTENANCE - FOUNDATIONS — $825,000

(Deferred Maintenance and Preservation)

B	2271	Repair/Replace (south,east & west walls) - Greenhouse	48,000
M	655	Waterproof foundation, Heating Plant	47,500
B	2272	Repair Retaining Walls & Concrete Decks - M/B Bldg.	78,000
M	917	Foundations waterproofing, Rankin Hall	58,400
B	2247	Tunnel(s) Repair - Campus	110,000
M	847	Foundations water proofing, Main Hall	77,900
M	1418	R/R Front Entry & Steps, Brantly	138,000
M	1687	R/R South & West Steps & Entrance, Fine Arts	72,100
M	746	Repair Front Steps of building, PARTV	20,300
M	2191	Biological Station Shoreline Erosion	174,800

32. ALARM AND EXTINGUISHING SYSTEM RENOVATIONS — $6,702,000

(New Construction + Life Safety/Code Compliance)

a. Fire Suppression Systems

M	182	Replace Fire Escape Door/Panic, University Hall	14,000
M	1439	Install Fire Sprinklers, Math	84,000
M	1331	Install Fire Sprinklers, Rankin	74,000
M	781	Replace Fire Sprinkler System, Schreiber	193,000
M	948	Install Sprinkler System, Forestry	105,000
M	816	Install Sprinkler System, Journalism	130,000
M	1440	Install Fire Sprinklers, Linguistics	30,000
M	1314	Install Fire Sprinklers, Natural Sciences Annex	22,000
M	800	Install Fire Sprinklers, Art Annex	181,000
M	1422	Install Fire Sprinklers, Corbin	104,000
M	1278	Install Sprinklers, COT West Campus	74,000
M	1400	Install Fire Sprinklers, North Corbin	94,000
M	1438	Install Fire Sprinklers, PARTV	320,000
M	2184	Install Fire Sprinklers, Clinical Psych	23,000
M	187	Remove Transoms-Add Fire Doors, Chem/Pharm	73,000
M	194	Add Fire-Rated Doors & Remove Transom, Math	50,000
M	195	Add Fire-Rated Doors & Remove Transom, Rankin	55,000
M	922	Transom Window/Fire Doors, Natural Sciences	59,000
M	197	Replace Doors & Transoms, Forestry	26,000
M	191	Remove Transoms, Liberal Arts	106,000
M	2143	Install Smoke Detectors, Nat. Sciences Annex	13,000
M	188	Install Fire-Rated Doors, Fine Arts	65,000

M	199	Install Fire-Rated Doors, Corbin Hall	71,000
M	2144	Install Fire-Rated Doors, Brantly Hall	86,000
M	190	Install Fire-Rated Doors, School of Education	37,000
M	193	Install Fire-Rated Doors, Health Science	137,000
M	192	Install Fire-Rated Doors, Liberal Arts	179,000
M	633	Fire-Rated Door Assemblies, Schreiber Gym	73,000
M	198	Install Fire-Rated Doors, McGill Hall	76,000
M	202	Install Fire-Rated Doors, Music	51,000
M	745	Install Auto-Door Closures, P.A.R.T.V.	77,000
M	203	Install Fire Corridor, Physical Plant	28,000
M	1120	Install Fire Suppression System, University Hall	147,000
M	924	Install Fire Sprinkler System, Natural Sciences	103,000
M	228	Install Sprinkler System, Liberal Arts	453,000
M	229	Install Sprinklers, Music	167,000
M	231	Extend Sprinklers, Law	264,000
M	842	Install Fire Sprinklers, Fine Arts	250,000
M	855	Install Fire Sprinklers, McGill Hall	273,000
M	235	Install Sprinkler System, Brantly Hall	175,000
M	237	Extend Sprinkler System, Physical Plant	230,000
M	935	Install Fire Suppression Room, Social Science	428,000
M	236	Extend Sprinkler System, Health Science	283,000
M	751	Extend Fire Sprinkler System, Upper Floors, Pharm/Psych	200,000
M	1275	Central Sprinkler Supervisor Station	53,000
M	1276	Install Auto Sprinkler, COT Kitchen, Admin.,	37,000
			$5,773,000

b. Fire/Security Information Boxes

M	1097	Install Fire Department Lock-Boxes, Academic Buildings	**$98,000**

c. General

M	1226	Wastewater Collection, Various Buildings, Biological Station	95,000
M	109	Replace Main Stairway Treads, Social Science	69,000
M	241	Replace Stairway to Basement, Rankin Hall	20,000
M	665	Install Eye-Wash Station/Shower, Health Science	16,000
M	658	Auto-Smoke Curtain for Elevator, Social Science	70,000
M	240	Modifications to Paint Shop to Meet "H" Occupancy Code, Physical Plant	31,000
M	2250	Retrofit/Install Dust Collection/Ventilation Sys. - Shops	16,000
M	239	Add Second Exit from Balcony, Music 215	206,000
M	746	Replace Front Steps, P.A.R.T.V.	12,000
M	242	Enclose Stairs - Business Administration, Corbin, McGill	221,000
M	1483	Install Emergency Lighting, COT Admin.	4,000
M	1510	Install Emergency Lighting, COT TT1	8,000
M	1277	Above-Ground Vault, COT TT1	26,000
M	1279	Water Mains and Fire Hydrants, West Campus	37,000
			$831,000

33. DEFERRED MAINTANCE - H&V SYSTEMS

$11,483,650

(Deferred Maintenance and Preservation)

M	1089	Replace 6" Interior steam line & buried connection to tunnel. Univ. Hall	183,250
MC	1521	Upgrade Exhaust Systems. COT TT2	177,500
B	2232	Repair/Replace HVAC System - Petroleum Building	345,000
B	2233	Install HVAC System - Museum Building	370,000
MC	1517	Replace Shop Heaters/Make-up Air Units. COT	61,250
B	2234	Upgrade/Extend HVAC System - Library	240,000
M	2409	Relocate Fresh Air. Mans. Library	118,750
B	2240	Repair/Replce Steam & Condensate Mains - Main Hall	545,000
MC	2395	Install Heat. COT TT 3	43,750
B	2241	Repair/Replace Basement Water/Sewer Lines - Main Hall	490,000
M	171	Campus Energy Management System (EMS)	511,250
MC	1516	Replace Heating Units. classroom. office & library. COT TT2	16,250
M	852	Replace and Renovate failed HVAC system. McGill	188,750
MC	1515	Replace Heating Units. COT TT1	16,250
M	1102	Install Air Conditioning IMS. Social Science	173,750
MC	1513	Replace Make-up Air Units. COT Trade Tech.	96,250
MC	1484	Install Back-up Boiler. COT Admin. Bldg.	41,900
M	2428	Rankin Hall Steam System Zoning	347,750
M	833	Renovate HVAC. Fine Arts	1,651,000
M	2477	Replace PARTV HVAC	1,850,000
M	635	Replace Turbine Pump #1. Heating Plant	192,000
M	636	Replace Feedwater Pump #2. Heating Plant	68,000
M	1138	Renovate boilers for alt/fuel. Heating Plant	150,000
M	645	Expand Tunnel System R/R Gallagher. UH. Forestry. Education	1,291,000
M	647	Replace id fan drives Heating Plant	144,000
M	2412	Replace Steam distribution system exp joints. Heating Plant	65,000
M	2413	Replace Heating and ventilation system. Journalism	764,000
M	697	Repair HV System. N. Corbin	402,000
M	113	Replace Heating and Ventilation System. Schreiber Gym	914,000
MC	1384	Heating System Timer Set Back. COT Admin	10,000
MC	1512	Replace Shop Heaters. COT TT	16,000

34. DEFERRED MAINTENANCE - ELECTRICAL SYSTEMS

$1,492,000

(Deferred Maintenance and Preservation)

M	659	Modify Electrical to GFI. Health Science	14,000
B	2251	Replace Branch Circuits (phase II) - Main Hall	322,000
M	664	Modify Electrical to GFI. McGill Hall	12,000
B	2252	Replace Switch Gear. Sub Panels. Circuits - Engineering Hall	182,000
M	663	Modify Electrical to GFI. Social Science	4,000
B	2253	Electrical Upgrade (add main circuit panel) - S/E Bldg	98,000
M	661	Modify Electrical to GFI. Pharm/Psych	8,000
B	2254	Replace Main & Distribution Panels - Petroleum Building	240,000
M	25	Replace Old Electrical Panels. Heath Science	278,000
M	20	Replace Old Electrical Panels. McGill Hall	120,000
M	914	Install Electrical Panels. Rankin Hall	132,000
M	80	Replace Secondary Panel. Math	82,000

35.	**MOVABLE EQUIPMENT AND FURNISHINGS**			**$1,898,000**
				(Deferred Maintenance and Preservation)
M	159	Capital Equipment in Library	920.000	
M	1209	Replace Office Furniture	978.000	
36.	**ALARM MONITORING AND RECORDING SYSTEM RENOVATIONS**			**$1,506,000**
				(New Construction + Life Safety Code Compliance)
M	2139	Fire Security Monitoring System. Campus wide	938.000	
MC	1495	Boiler Alarm Monitoring System. COT Admin	8.000	
M	1776	Create Voice Logging System	60.000	
M	1778	Griz Card Automation System	500.000	
37.	**GROUNDS REPAIRS AND RENOVATIONS**			**$152,500**
				(Deferred Maintenance and Preservation)
B	2235	Lawn/Landscaping Sprinkler Systems - Campus	57.000	
B	2236	Install/Repair Security Fencing - Campus	21.000	
B	2237	Repair Tennis Courts	26.000	
D	2297	Replce Irrigation Pumps & Pipe	48.500	
38.	**NEW CONSTRUCTION PLANNING - ALL CAMPUSES**			**$943,900**
				(New Construction/Renovations)
M	2415	New Construction - Native Am. Studies Bldg. Planning Only (10.000 gsf new - $3.5M)	35.000	
B	2263	New Construction - MBMG Building (30.000 gsf new - $7.2M)	72.000	
D	2315	Renovation - Main Hall Phase I Planning (50,398 gsf - $3.1 M)	62.000	
M	2424	New Construction - Law Building Renovation/Expansion (24.000 gsf new - $7M)	70.000	
B	2264	Renovations - Petroleum Building (22.000 gsf - $4.8M)	48.000	
D	2491	Renovation - Industrial Technology/Pool (3.900 gsf - $.35M)	3.500	
M	170	UMCOT East Campus Relocated to West Campus (100.000 gsf new - $12 M)	120.000	
B	2265	Renovation/Restoration - Main Hall (38.000 gsf - $8.2M)	82.500	
M	1061	New Construction - School of Education Addition - (27.770 gsf - $6M)	60.000	
B	2266	Renovation - Engineering Hall (15,500 gsf - $2.6M)	26.000	
M	1188	New Construction - Broadcast Media Addition (33.000 gsf - $5M)	50.000	
B	2492	New Construction - MTCT - Maintenance/Storage Facility (3.000 gsf new - $.3M)	2.900	
M	2394	Renovation - Math Building (13.500 gsf new - $4.1M)	41.000	
M	2422	Renovation - University Hall - (32,843 gsf - $5.1 M)	51.000	
M	2410	Renovation - Rankin Hall (16,500 gsf - $2.8M)	28.000	
M	173	Renovation - Fine Arts Building (2.000 gsf new - $2.2M)	22.000	
M	2393	New Construction - Chem/Pharm Building Addition (66.000 gsf - $10 M)	100.000	
M	2480	Planning for Mansfield Library Expansion (IMS to Library)	70.000	
		TOTAL REQUEST		**$95,544,318**
39.	**SPENDING AUTHORITY**			**$28,100,000**
				(Spending Authority)
UM	1148	Grant Projects. All Campuses	1.500.000	
UM	1222	ADA Code/Deferred Maintenance	1.000.000	
M	2446	Fine Arts Museum Remodel/Upgrade from 2.5 M (15.000 gsf) - 5M (25.000 gsf)	5.000.000	
M	2478	Multi Media Center - Bio Station (7.000 gsf)	1.350.000	
M	2479	International Center (7,000 gsf)	1.250.000	
M	2424	Law Building Renovation/Expansion (24.000 gsf)	5.000.000	
M	2481	School of Journalism Building (66.000)	12.000.000	
M	2482	Replace Dornblaser Bleachers	1.000.000	
		GRAND TOTAL REQUEST		**$123,644,318**

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

PROJECT PRIORITY TABLE

DEPARTMENT/AGENCY: The University of Montana **BIENNIUM:** 2002-2003

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
1.	Replace Primary Power Distribution System - Dillon	This project addresses the most urgent primary power needs of Western Montana College of The University of Montana. Currently there is potential danger to the delivery of all programs on the Western Montana College caused by the unreliable nature and the deterioration of their primary power distribution system. This project will consist of replacing the switch gear, underground wiring, and equipment to deliver required electrical power.	$353,060	State
2.	Heating Plant Steam Distribution Repair/Upgrade - Phase II - Butte	During the last legislative session the Butte College of Technology's Welding Lab ventilation repair/replacement project ($250,000) was combined with the request for repair/upgrading of the Heating Plant and Steam Distribution Systems project ($854,000). The requested funding for both of these projects was also combined but reduced by $574,000 or 52%. This request will allow completion of the Heating Plant/Steam Distribution system (Phase II) and will also provide for a back-up fuel (propane) system.	$675,000	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
3.	Replace HVAC System in Science Complex Phase II - Missoula	This project was initially funded in the 55th Legislature at $1.2 Million to replace worn out HVAC systems and unsafe laboratory exhaust systems. In 1999, after schematic designs and estimates were available, the budget was determined to be insufficient to address all of the critical issues. Later that year the campus directed Facilities Services that all of the asbestos in the building had to be removed as part of the project because of concerns over contamination of the return air plenum and the possibility of serious disruption of occupants in the future. Consequently, the project scope was increased to include total asbestos removal and insulation replacements and other related aspects of the renovation which enable the project to be completed as originally intended.	$2,956,000	State
4.	Renovation of Chem/Pharm Building - Missoula	The existing Chemistry Pharmacy Building was built in 1938. Little has been done to update its laboratories ventilation systems and other infrastructure supporting classroom and laboratories. Students and staff are required to utilize old and antiquated systems and as such, are exposed to life safety hazards. These Life Safety issues have put the Chemistry Department's accreditation in danger. This renovation would remedy the Life Safety and operational issues and also address deferred maintenance and adaptive maintenance needs which have accrued over the last 61 years.	$6,250,000	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
5.	Replace Campus Primary Radial System with Loop Feed - Butte	The campus's underground primary electrical system has had major failures in the last several years. In February 2000 the primary system failed and was down for over 36 hours. This failure caused a power outage to the entire campus, including the Heating Plant, and resulted in extensive damage to equipment and building systems. The configuration of the existing primary electrical system does not loop feed the system, resulting in all facilities losing power that are down line of the outage.	$482,000	State
6.	Replace Upgrade Fire Alarm Systems on Campus - Dillon	Various Fire Alarm Systems on the Dillon Campus no longer provide the intended State protection or life safety warnings required by Fire and Building Codes.	$225,000	State
7.	Replace HVAC System - Mining Geology Building - Butte	The original (1972) heating/ventilation system failed shortly after the building opened over 20 years ago. The original system was poorly designed and inadequate. Due to age and complete failure no existing components are repairable or useable. The system must be redesigned and a new system installed using current design codes and standards. The building does not provide the recommended fresh air exchanges based on occupancy and is jeopardizing the health and well being of the occupants (students, faculty and staff).	$701,400	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
8.	Replace Boiler # 3 upgrade to 120,000 # per hr. - Missoula	This project replaces Boiler #3 and one feed water pump which is nearing the end of its life cycle. Boiler #3 has tube leaks on an annual basis, is the least efficient boiler and is the boiler most likely to have a catastrophic failure. A failure of this system during winter could result in multi building system failures with resulting financial loss to The University and major programmatic distribution.	$1,380,000	State
9.	Disability Access Renovations All Campuses	The University is mandated by federal law to provide the disabled community with equal opportunity to participate in University programs on all campuses. This request is for the most urgent projects which provide program access to University buildings and classrooms, and for other related programs including elevators, handrails, stairs, renovations of signage, door openers, chalkboards, non-code doors and the like for mobility impaired students.	$1,766,816	State
10.	Renovation of Teaching Classrooms and Laboratories Phase III	This project addresses laboratory and classroom deficiencies on all campuses of The University of Montana which were not addressed in the $7 Million Series D Bond Project and the $2 Million allocation from the 56th Legislature. There have been significant programmatic and technological changes which have not been kept up with and have resulted in inadequate laboratory and classroom support to instruction.	$5,000,000	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
11.	Renovate Petroleum Building - Butte	The existing building is 45 years old, is energy inefficient with glass block over metal frame single strength glass windows. The building's systems (electrical mechanical and ventilation) are outdated and no longer support modern day classroom and laboratory techniques. The building's systems are also deficient in acoustical treatment in all instructional areas, forced air heating/ventilation, elevators and the building is out of compliance with all ADA standards. Interior space is inefficiently utilized and will require redesign and layout.	$4,850,000	State
12.	Renovate Main Hall - Dillon Phase I	Main Hall is the first building ever constructed on the WMC/UM Campus. Even though this building has been well maintained for over 100 years many of the building's plumbing, electrical and mechanical systems, currently do not serve all of the needs required for an educational building. Main Hall is listed in the National Historic Register. General remodeling is needed to restore the character of this historic building.	$3,851,100	State
13.	Replace/Update Health Sciences HVAC System- Missoula	The HVAC System (heating/ventilating/air conditioning) that supplies heating and cooling to the animal housing space and the chilled water for the five upper floors of the original Health Science Building has exceeded its life expectancy by ten years and needs replacement.	$431,000	State
14.	Roof Replacements - All Campuses	In accordance with the University's priority of asset preservation, selected roofs and systems are now due for replacement. Costly damage to the structures and contents could result if the scheduled replacement is deferred.	$919,538	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
15.	New Construction - Helena College of Technology Addition	Currently, there is not sufficient space to adequately meet the steadily increasing enrollment and the growing General Education and transfer course loads at the Helena College of Technology. This is resulting in the college having to put an enrollment cap on classes to the detriment of students and the college's ability to grow to meet the obligations expected of it. Additionally, the college is leasing space in the old Ray Bjork School Building to meet the most urgent space needs.	$4,686,000	State
16.	New Construction -MBMG Building - Butte	The Montana Bureau of Mines and Geology occupies all current available space in Main Hall (30,000 sq. NASF). Main Hall is the oldest building on the Montana Tech campus; construction commenced in 1896. Originally the structure was intended as a building for laboratories and classrooms. Later it was assigned to the Bureau of Mines as the center for its statewide operations. Three major problems exist in meeting the Bureau's current and future needs. They are the physical and quality shortcomings of the existing space; vast deferred maintenance of the building and building systems, and lack of space to expand existing Bureau programs.	$7,200,000	State
17.	Renovate the Fresh Air and Ventilation Systems - PARTV - Missoula	The PARTV Building has fresh air and ventilation problems in its scene shop and office areas. This project would provide the additional ventilation and fresh air renovations to eliminate the code and safety problems in the scene shop and eliminate the environmental/workplace deficiencies in the office areas.	$411,000	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
18.	Replace Mansfield Library Carpet - Missoula	The carpet in the Mansfield Library has exceeded its expected life span and is creating safety problems. In many instances, book binding tape is used to prevent further fraying and reduce trip hazards. The carpet replacement problem is an increasing liability due to the amount and overall age of this type of floor covering.	$1,079,755	State
19.	Replacements and Renovations of Safety Systems - All Campuses	This project addresses urgent public health and safety issues which have been cited by local code authorities by providing or renovating fire alarm and sprinkler systems, emergency lighting, potable water protection and egress.	2,158,000	State
20.	Removal and/or Encapsulation of Asbestos Containing Materials - Dillon	This project is intended to eliminate public health risk on the Dillon Campus by removing hazardous materials from public and working environments in seven campus buildings.	$211,000	State
21.	Construction New Electrical Substation - Missoula	This project provides for the construction of an electrical substation for the Missoula Campus to allow receiving electrical power at voltages in excess of 50,000 volts. In FY2003, the Montana electric deregulation legislation requires that all non core users purchase this electrical power from independent suppliers. Currently, The University of Montana, because it accepts power below 50,000 volts has a Class I distribution rate in its electrical cost component. This substation will allow us to qualify for transmission level transportation rates and avoid up to $311,000 a year of additional expense.	$1,906,800	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
22.	Renovations to Re-Mediate Exhaust System Noise - Chem. Bldg. Butte	The four (4) exhaust systems for the newly renovated Chemistry Building are producing "noise" that is unacceptable to the residents of the neighborhood surrounding the south edge of campus. The noise levels were not anticipated by the college and were not predictable until the systems were brought on-line. The residents are seeking legal recourse to force the re-mediation of the noise. This funding request would provide engineering, design and implementation of corrective measures to reduce the noise level.	$75,000	State
23.	Deferred Maintenance - Envelope - All Campuses	Exterior building masonry and tera cotta on The University of Montana campuses are in need of tuckpointing, cleaning and sealing to preserve the interior of finishes and the building structure. Additionally, various windows and doors are in need of replacement due to age and use.	$1,523,800	State
24.	Exterior Site - Sidewalks & Roadways Replacements - All Campuses	The University of Montana campuses have identified sidewalks which are cracked and broken, causing tripping hazards and various roadways which are in need of replacement or major repair to extend their useful life and provide adequate fire protection access.	$1,974,550	State
25.	Replace Mansfield Library Humidification System - Missoula	Library documents are degrading due to fluctuations in temperature and humidity. This project will provide humidity control by steam humidification with outside air to maintain a controlled environment for the library holdings.	$695,600	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
26.	Disability Access Renovations - All Campuses	The University is mandated by federal law to provide the disabled community with equal opportunity to participate in University programs on all campuses. The request is for a number of projects not addressed in priority No. 9 which provide program access to University buildings and classrooms, and for other related programs including elevators, handrails, stairs, renovations of signage, door openers, chalkboards, non-code doors and the like for mobility impaired students.	$10,540,575	State
27.	Roof Replacements - Missoula	In accordance with the University's priority of asset preservation, these selected roofs and systems not addressed in priority No. 14 will be due for replacement soon. Costly damage to the structures and contents could result if the scheduled replacement is deferred.	$259,900	State
28.	Deferred Maintenance - Envelope - Missoula and Dillon	This project identifies second tier needs for exterior building masonry, terra-cotta and window systems on various campuses of The University of Montana. They include tuckpointing, cleaning and caulking to protect the interior finishes, and to preserve exterior building components.	$4,531,800	State
29.	Deferred Maintenance - H & V, Sewer and Water Systems Missoula and Dillon	This project will repair and/or replace utility systems which have reached the end of their useful lives. The projects include steam line repairs, wastewater collection systems, potable water systems, and other heating system repairs and replacements.	$2,607,725	State

DEPARTMENT/AGENCY: The University of Montana **BIENNIUM:** 2002-2003

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
30.	Deferred Maintenance - Flooring Systems - All Campuses	This project consists of several projects at The University of Montana Campuses involving replacing carpet and other floor coverings in various locations that have exceeded expected life span and creating safety problems. The carpet replacement problem is an increasing liability due to the amount and overall age of this type of floor covering.	$838,849	State
31.	Deferred Maintenance - Foundations All Campuses	In accordance with The University of Montana's priorities, asset preservation has a high priority. These building foundation waterproofing projects for The University of Montana are designed to stop costly damage incurred when moisture penetrates rubble foundations.	$825,000	State
32.	Alarm and Extinguishing System Renovations - Missoula	These projects address deficiencies on the campuses of The University of Montana, which were cited by Federal, State and local agencies, that affect the health and safety of students, faculty, staff and the community. These projects consist of fire alarms, fire suppression systems and fire separation assemblies.	$6,702,000	State
33.	Deferred Maintenance - H&V Systems - All Campuses	These projects will replace worn out heating, venting and air conditioning equipment in various buildings on The University of Montana campuses. This equipment is outdated and no longer cost effective to maintain. Energy costs are escalating as a result. In some instances, replacement parts can not be obtained. The new equipment will save energy and maintenance costs.	$11,483,650	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
34.	Deferred Maintenance - Electrical Systems - All Campuses	This project will replace antiquated electrical panels in various buildings on The University of Montana campuses. Parts are no longer available for many of the existing panels and it is problematic when expansion is required. Additionally, this project will install ground fault interruption circuits in areas identified by a Department of Labor inspection.	$1,492,000	State
35.	Movable Equipment and Furnishings - Missoula	The project's goal is intended to provide new shelving and study carrels in the Mansfield Library and replace worn out and outdated office furniture.	$1,898,000	State
36.	Alarm Monitoring and Recording System Renovations - Missoula	Currently the buildings on the Missoula campus have various levels of certified life safety monitoring capabilities. Existing fire alarms are for individual buildings and report to a variety of locations. These projects would install a central monitoring reporting and recording system for all maintenance alarms through the use of a building automation system and a fiber optic backbone. Additionally, the Griz Card project would provide electronic entry door upgrades.	1,506,000	State
37.	Grounds Repairs and Renovations - Butte & Dillon	These projects address various grounds deficiencies on the Butte and Dillon Campuses. This project would provide for repair/replacements of major sprinkler system, some of which are 60 years old, to eliminate wasting irrigation water and provide efficiencies in night time sprinkling during the summer. MT Tech has a need to provide security fencing around property and equipment storage areas to reduce/eliminate vandalism and theft of State property. The tennis courts in Butte south of the HPER facility need to be resurfaced and the fencing around the courts are in dire need of repair.	$152,500	State

Priority	Project Title	Rationale for Priority Ranking	Cost	Funding: Acctg. Entity
38.	New Construction Planning - All Campuses	This priority requests construction/major renovation planning funds for the non-urgent new construction plans for The University of Montana. These funds would be utilized to retain consultants in developing schematic level documents and estimates to be utilized in submitting new construction projects in following bienniums. The first priority, planning funds for the Native American Studies Building is a request for funds from the State to develop schematic plans and fund raising brochures for this project which received spending authority in the 56th Legislature.	$943,900	State
39.	Spending Authority	This request is for legislative spending authority to be granted to The University of Montana for renovation and new construction projects on all campuses of the University. The renovation and new construction projects would be funded from Federal, private, grants or campus sources.	$28,100,000	Various

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Replace Primary Power Distribution System
Project Priority: 1
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Western Montana College of The University of Montana

A. THIS PROJECT: (Check one)

_ Is an Original Facility
__ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_x_ Class I
__ Class II
__ Class III

B. LOCATION: All Campuses
(Check where appropriate)

_x_ Site on Owned Property
__ Site to be Selected
_x_ Site Already Selected
_x_ Outside of 100-Year Flood Plain
__ Utilities Already Available
__ Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project addresses the most urgent primary power needs of Western Montana College of The University of Montana, which consists of selected replacements of the primary power network, switchgear and buried cable on the Western Montana College campus.

Impact on Existing Facilities:
Replaces with in-kind, failed or dangerous primary electrical power distribution systems. This project will eliminate intermittent shut down of boiler plant, classroom, dormitory, and auxiliary buildings.

Number to be served by Facility: 1500

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The primary power distribution system on the Western Montana College of The University of Montana campus has some very unreliable components that have failed in the underground electrical distribution system. Most switchgear and equipment were updated prior to 1960.

E. ALTERNATIVES CONSIDERED:

1. Let the equipment continue to deteriorate and incur losses and potential wholesale shutdown of programs.
2. Partially fund this project.
3. Fund in full all of the project.

Rationale for Selection of Particular Alternative:

The potential danger to the delivery of all programs on the Western Montana College campus caused by the unreliable nature and the deterioration of their primary power distribution system has only one solution. Replacement.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	20,000
4. Construction Cost:	$	278,000
5. Site Development:	$	33,360
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	21,700
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	353,060
Less Other Funds Available		
Source:_____	$	0
_____	$	0
Long-Range Building Fund:	$	353,060

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2002

Number of Additional Personnel Required:

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REPLACE PRIMARY POWER DISTRIBUTION SYSTEM $353,060

Primary Power and Utility Distribution System

1950s primary power distribution system switchgear, wiring, conduit, and manholes are failing due to age. Underground cable failures have caused campus-wide outages over the past two years. Replacement is the only safe alternative that will provide continuous campus and classroom service for this campus. Western Montana College is the only remaining unit of the university system that has not had their primary power distribution upgraded for future use.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Heating Plant Steam Distribution Repair/Upgrade - Phase II
Project Priority: 2
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Montana Tech of The University of Montana

A. THIS PROJECT: (Check one)

x Is an Original Facility	Major Maintenance Class:
x Improves an Existing Facility	x Class I
	_ Class II
_ Replaces an Existing Facility	_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property	x Outside of 100-Year Flood Plain
_ Site to be Selected	x Utilities Already Available
x Site Already Selected	x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project addresses the deferred maintenance, failing and inadequate capacity of the existing Heating Plant and aging steam distribution system by replacing, retro-fitting and upgrading the boilers and steam distributions (piping) system(s) - Phase II.

Impact on Existing Facilities:

The project will eliminate the potential losses due to a failure in the Heating Plant or a failure of the main line steam distribution system.

Number to be served by Facility:
2300/2500 (students, faculty & staff)

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

This project would be Phase II of the project under-funded last legislative session. This project was combined with another project last biennium and the funding request was reduced by 52%. This funding request would provide funding to complete the upgrade/repair of the Heating Plant/Steam main-line distribution system and also provide for an alternate fuel system installation. See Narrative.

E. ALTERNATIVES CONSIDERED:

Leave project partially completed and still risk the losses due to failure of the Heating Plant, peripheral equipment and steam distributions system(s)

Rationale for Selection of Particular Alternative:

Completion of this project is the only alternative.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	10,000
3. Consultant Services:	$	81,000
4. Construction Cost:	$	444,600
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	5,000
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	67,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	13,500
12. Commissioning:	$	16,900
13. Construction Testing:	$	5,000
14. Percent for the Arts:	$	0
15. Other:	$	32,000
TOTAL COST	$	675,000
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	675,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

HEATING PLANT STEAM DISTRIBUTION REPAIR/UPGRADE - PHASE II $675,000

The Fifty-Sixth Legislative session combined the Butte College of Technology's Welding Lab Ventilation Repair/Replacement project (requested funding $250,0000) and Montana Tech's Heating Plant/Steam Distribution Repair/Upgrade project (requested funding ($854,000). The combined LRBP funding approved for these two projects is $530,000. The engineer's cost estimate for Butte College of Technology Welding Lab Ventilation is $247,931, leaving a balance of current appropriated LRBP of $282,000. This biennium's request ($675,000) will bring the project back into alignment with 2000/01 biennium's request and will allow us to continue the campus Heating Plant/Steam Distribution System Repair & Upgrade. Phase II of this project will allow replacement of the existing boilers' header (the original design was for water instead of steam); upgrading the chemical feed system; installation of an deaerator; installation of an energy management system; service access/emergency exit from the boiler room (currently only one (1) walk-in door accesses the boiler room); installation of a catwalk and lifting rails for boiler maintenance. Completion of the Phase II will also provide for a propane alternative fuel back-up system which will provide better pricing on natural gas by allowing the campus to option as an interruptible customer. Pay back on the alternative propane system is estimated to be 5 to 7 years. Phase II will provide a back-up generator to provide electrical power to the Heating Plant during a power outage (in February, 2000 the plant was down for 36 consecutive hours).

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Replace HVAC System in Science Complex Phase II
Project Priority: 3
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

x Is an Original Facility	Major Maintenance Class:
x Improves an Existing Facility	x Class I
	_ Class II
_ Replaces an Existing Facility	_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property	x Outside of 100-Year Flood Plain
_ Site to be Selected	x Utilities Already Available
x Site Already Selected	x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project is to complete Phase I to replace existing worn out heating, ventilating and air conditioning equipment in the Science Complex facility and remove the asbestos in the return air plenum.

Impact on Existing Facilities:
This project will reduce maintenance costs, extend the life of the mechanical systems and protect the building occupants from life threatening situations in the event of any lab exhaust equipment failures.

Number to be served by Facility: N/A

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

During the design phase of the repair and replacement of the HVAC renovations additional information and problems came to light that have delayed completion of the project. The original engineering cost estimate was inadequate for the scope of work. The poor condition of the asbestos fireproofing on the structural steel requires abatement prior to the interior HVAC replacement. This work needs to be coordinated with the mechanical work to limit major disruptions of the occupants and programs to one construction period. Additional fume hood air flow equipment is needed to provide air pressure relationships between the laboratory and corridors, classrooms and offices. The code review performed by the consultants indicated that an addition of a fire sprinkler system is necessary to solve the fire rated corridor issue. There is a need for temporary lab and office space for the on going operations of the building occupants. This temporary lab space is to be used for the Chem/Pharm Building renovations to follow. The roof replacement has been included in this project to allow coordination for the work on the roof to be accomplished with greater economy and a code review indicates that fire sprinklers would mitigate other safety issues.

E. ALTERNATIVES CONSIDERED:

1. Install as much of the mechanical retrofit as current funding allows. The asbestos in the return air plenum will most likely fall off the structural steel and stop the project prior to completion as funds are used to address the asbestos problem created by construction activities. This will cause multiple disruptions for the building occupants. The possibility of cross contamination within the building remains.
2. Completely remove the asbestos in coordination with the HVAC replacement. Address the room pressure relationships with additional duct work and controls and provide temporary space for the on going operations in the building.

Rationale for Selection of Particular Alternative:

To replace the HVAC equipment in the building and make the necessary improvements to the fume hood systems will require the removal of a significant amount of asbestos. During the review of the project, the magnitude of the problem became apparent. To complete the project, the asbestos, fume hoods, proper variable air volume controls, roof and relocation of occupants needs to be included.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	300,000
4. Construction Cost:	$	2,870,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	270,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	75,000
12. Commissioning:	$	70,000
13. Construction Testing:	$	10,000
14. Inflation:	$	
15. Other: Temp Lab & moving	$	450,000
TOTAL COST	$	4,045,000
Less Other Funds Available		
Source: AC Entity 05047	$	1,089,000
App. No. 58406	$	
Long-Range Building Fund:	$	2,956,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2002

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REPLACE THE HVAC SYSTEM IN THE SCIENCE COMPLEX PHASE II $2,956,000

The Science Complex Building HVAC replacement was funded $1.2 million in the 55th Legislature. The consultants' detailed review of the project identified additional program elements requiring additional funding. The asbestos fireproofing, located in the return air plenum, is in very bad shape and is falling off of the structure. It is anticipated that the mechanical renovations will dislodge more asbestos than was originally planned for abatement. By abating all of the asbestos in the air plenum, the problem areas will be addressed in this construction period in a planned manner rather than as an emergency project. The high probability of encountering costly delays due to asbestos contamination of the building air system has prevented awarding a complete construction contract. Planning is proceeding for a project to install the exhaust portion of the system located outside of the building envelope prior to the end of 2000. This work can proceed without significant distribution of the occupants.

The engineers strongly advised upgrading the fume hood control system to a VAV type system to prevent over pressurizing the labs and sending contaminated air into the remainder of the building. Recent programming documents have also identified fume hoods and ducting that are rusted out and need replacement. The current plans call for a roof mounted central exhaust fan and air handler. The roof replacement project has been included in this request to allow for cost savings by coordinating all of the roof work into one project. Additionally, the consultants' code review of the facility has indicated problems with the corridors. An expansion of the fire sprinkler system to floors 1-4 will mitigate this issue and will eliminate future wholesale distribution of occupants do to future renovation or deferred maintenance space.

Five departments share the use of the Science Complex for office, laboratory, and classroom space. The University can find substitute classroom space for the construction period. There is a need to provide temporary laboratory and office space for the duration of the project, funding for temporary facilities and moving expenses are included in this request. The temporary laboratory space would be used at the completion of the Science Complex project for temporary lab space for the renovations of the Chem/Pharm Building. This facility renovation will have the same construction access and coordination needs.

The design solution and construction sequence as outlined above will address the deferred maintenance and life safety problem in the building in a complete and comprehensive manner.

(Following is the Project Elements Estimate)

Revised Science Science Complex HVAC Improvements 97-01-07
Project Elements Estimates

- Revise HVAC System Renovations $1,189,000
- Asbestos Abatement 698,000

Abatement	
Beam fire proofing/overspray	$222,500
Ceiling Tiles	37,500
Pipe Insulation and Fittings	22,500
Fume Hoods - Bad Condition	7,000
Fume Hoods - Remaining	18,200
Material Replacements	
Beam fire proofing	91,600
Ceiling replacement	123,000
Pipe Insulation	94,900
TCLP Sampling	6,000
Mark-up by HVAC Contractor	74,800

- Replacement of fume hoods and duct work $259,000

Exhaust duct work removal and replacement	$ 30,000
Fume hoods	229,000

- DDC Controls $300,000
- Fire sprinklers floors 1-4 ..... $274,000
- Roof Replacements (24,000 SF) $120,000

Construction Sub-Total	$2,840,000
Inflation	100,000
Temp. Lab Space, Connections and Moving	450,000
Consultant Fees	300,000
Construction Management	85,000
Commissioning	70,000
Contingencies	300,000
TOTAL PROJECT	**$4,045,000**

CAPITAL PROJECT REQUEST

Project Title: Renovation of Chem/Pharm Bldg.
Project Priority: 4
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

_Is an Original Facility	Major Maintenance Class:
x Improves an Existing Facility	x Class I
	_ Class II
_ Replaces an Existing Facility	_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property	x Outside of 100-Year Flood Plain
_ Site to be Selected	x Utilities Already Available
x Site Already Selected	x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
General renovation of existing Chem/Pharm Building.

Impact on Existing Facilities:

Drastically improve ventilation systems, code compliance and create safer conditions for students and faculty using this facility.

Number to be served by Facility: All students enrolled in Chemistry and some in Pharmacy classes. Some 2,000 students/year use this building and another 50 faculty/staff/grad. Students are permanently housed here.

Functional Space Requirements: 47,800 gsf of existing space would be renovated. These spaces include classrooms, labs and faculty offices.

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The existing Chem/Pharm was built in 1938. Little has been done since, except for the lab ventilation for the fourth floor, to update the labs and ventilation system. Students are faced with old lab benches, plumbing and ventilation systems. As such, the Chemistry Department is in danger of losing its accreditation. The University also is exposed to liability from these out-date services.

E. ALTERNATIVES CONSIDERED:

1. Leave conditions as is.
2. Build new Chemistry building.
3. Renovate existing building.

Rationale for Selection of Particular Alternative:

Option 1 above continues UM liability exposure and loss of accreditation.

Option 2 was considered, but the expense and lack of financial support makes it a long-term solution only.

Option 3 meets the immediate needs of the students and faculty involved. The existing building has equity that should be improved. The State recently installed a new ADA elevator and primary electrical supply as a beginning to up-grade the entire building. Solves existing problem with minimal additional operation and maintenance costs.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation: Asbestos Abatement	$	242,500
3. Consultant Services:	$	414,200
4. Construction Cost:	$	4,141,750
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	50,000
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	696,550
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	75,000
12. Commissioning:	$	70,000
13. Construction Testing:	$	30,000
14. Percent for the Arts:	$	50,000
15. Other: (moving & lab rental space, inflation factor)	$	480,000
TOTAL COST	$	6,250,000
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	6,250,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2004

Number of Additional Personnel Required: 0

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	113,306 *
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	105,750 *
Maintenance Expenses	$	n/a

*Note: These additional operating expenses reflect the increased power, heat and water consumption that is expected after HVAC improvements have been made.

CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

RENOVATION OF CHEMISTRY/PHARMACY BUILDING $6,250,000

The existing Chem/Pharm Building was built in 1938. Since then, an animal housing annex was added in 1949, a second floor laboratory was converted into a tiered auditorium in 1984 and more recently in 1999 the existing elevator was replaced with an ADA compliant unit. The University has used its own bond funds to renovate some labs in the basement and improve the ventilation system for the fourth floor labs. However, this still leaves the majority of the spaces untouched since 1938. The labs are in serious need of new ventilation systems, fume hoods and benches. The lights need to be replaced for energy efficiency per federal standards. The entire electrical distribution is single phase - this needs to be replaced with three phase power. All the windows are single pane glazing. The energy loss from these is enormous. The roof is also original. It has served its life expectancy and needs replacement. There is asbestos floor tile and wall plaster in the building that must be dealt with. We propose to replace the floor tile but do minimal work to the walls.

In April of 1999 the department was visited by Professor Dennis Strommen, Chair of Chemistry at Idaho State University who served as a Regents mandated Review Officer. He stated in his final report to the Dean of College of Arts & Sciences (Prof. Jim Flightner) that the condition of the building was appalling from a health and safety point of view. In May of 1999 the department was also visited by an external advisory board made up of mainly UM alumni who are now prominent medical and chemical professionals from around the country. There was unanimous agreement that the state of the Chem/Pharm building represented a health and safety risk to the faculty and students of the department. It was their opinion that the University is running the risk of losing lab certification and involvement in expensive law suits unless the situation is given immediate attention (final written reports from both reviews are available on request from CAS or the Department of Chemistry). This situation is primarily due to the poor quality of facilities available to students & faculty. We propose installing new ventilation & air-conditioning systems, replace the lab benches & fume hoods, potable water systems and back flow prevention as well as other laboratory systems, replace the lights, windows, corridor doors, floor tiles, roof & tuckpoint the exterior brick facade as required to get another 30-50 years out of this building. Other ADA & Life Safety work for code-compliance is also proposed to be done under this renovation. An additional cost that must be taken into account is displacing the labs & offices during construction. The Missoula campus has no vacant space to accommodate these activities during renovation work. The renovation work could be scheduled floor-by-floor or east half versus west half in order to minimize impact to lab and office activities during renovation. Temporary lab space is to be provided from the Science Complex HVAC renovation project. Still, a one year time period is expected for work of this magnitude.

The anticipated project cost is about $135/SF for a renovation. This compares favorably to new laboratory construction whose cost would be about $230/SF.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Replace Campus Primary Radial System with Loop Feed
Project Priority: 5
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Montana Tech of The University of Montana

A. THIS PROJECT: (Check one)

_x_ Is an Original Facility
_x_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_x_ Class I
_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

_x_ Site on Owned Property
_ Site to be Selected
_ Site Already Selected

_x_ Outside of 100-Year Flood Plain
_x_ Utilities Already Available
_x_ Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project would retrofit and renovate the existing radial feed system into a loop feed electric distribution system.
Campus wide – the campus primary electrical feed provides electrical power to over 440,000 GSF of campus buildings including the Heating Plant and also Alumni Coliseum.
Impact on Existing Facilities: This project would provide safe reliable power distribution to campus facilities and would provide the ability to isolate or sectionalize power shutdowns due to equipment or cable failure.

Number to be served by Facility: All students, faculty and staff

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

This project would repair and replace outdated, unreliable and hazardous underground cabling, switch-gear and transformers that make up the primary electrical distribution system on campus. It would also provide for a "Back-feed Loop" that would allow the system to be fed in a reverse direction should a disruption occur in any part of the system (See Narrative).

E. ALTERNATIVES CONSIDERED:

1. Continue to defer repair/replacement of equipment and accept risks of injury and/or losses due to cable and equipment failure.
2. Fund project.

Rationale for Selection of Particular Alternative:

The major risks exists for a prolong failure which would shut down all campus programs and activities. There is also a risk of major damage to buildings' systems should there be prolonged shut down during freezing temperatures (failure of heating systems and/or central Heating Plant.

CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	
3. Consultant Services:	$	38,000
4. Construction Cost:	$	380,000
5. Site Development:	$	
6. Utilities:	$	
7. Telecomm. Systems:	$	
8. Furnishings - Equipment:	$	
9. Contingencies:	$	38,000
10. A/E Supervisory Fee:	$	
11. Construction Mgmt.:	$	10,000
12. Commissioning:	$	5,000
13. Construction Testing:	$	5,000
14. Percent for the Arts:	$	
15. Other:	$	6,000
TOTAL COST	$	482,000
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	482,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REPLACE CAMPUS PRIMARY RADIAL SYSTEM WITH LOOP FEED $482,000

Eighty per cent (80%) of the campus's underground primary electrical system is forty (40) to fifty (50) years old. In the past several years the system has failed at various points along the distribution of the primary feed to the major portion of the campus. The present system will not allow the by pass or "back feed" of power around the point of failure. When the system fails, all electrical power is lost down-line from the point of failure. In several instances failures have left the entire campus without electrical power. In February of 2000, the system failed at several points along its route leaving the heating plant and the entire campus without power or heating. This failure lasted over thirty-six (36) hours and resulted in extensive damage to equipment and many of the buildings' heating and electrical systems. This project would repair/replace hazardous, unreliable, and outdated underground cabling, switch-gear and transformers that comprise the primary electrical distribution system on campus. It would provide safe, reliable power distribution to campus facilities and would provide the to sectionalize and reroute power around cable and failed primary electrical switch-gear and equipment.

CAPITAL PROJECT REQUEST

Project Title: Replace Upgrade Fire Alarm Systems in Various Locations
Project Priority: 6
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Western Montana College of The University of Montana

A. THIS PROJECT: (Check one)

_	Is an Original Facility	Major Maintenance Class:
x	Improves an Existing Facility	x Class I
		_ Class II
_	Replaces an Existing Facility	_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x	Site on Owned Property	x	Outside of 100-Year Flood Plain
_	Site to be Selected	x	Utilities Already Available
x	Site Already Selected	_	Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
These items need to be brought into compliance with Federal and State-mandated programs. These projects range from items required by the State Fire Marshall's Office, Uniform fire code, and citations from the Department of Labor and other agencies having jurisdiction over life safety and mandated programs.

Impact on Existing Facilities:

The funding for these projects will bring the university's buildings and other systems into compliance with State-mandated fire and safety codes, as well as Federal and State-mandated programs.

Number to be served by Facility: 1,500

Functional Space Requirements:

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

These projects address deficiencies cited by Federal, State and local agencies that affect the health and safety of students, faculty, staff and the community.

E. ALTERNATIVES CONSIDERED:

1. Make no changes and continue accepting the risk and possible liabilities.
2. Restrict use of facilities to reduce risk.
3. Fund in full all of the projects.

Rationale for Selection of Particular Alternative:

Only full funding will meet mandated solutions required by Federal and State agencies.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: Dillon Physical Plant

1. Land Acquisition:	$	
2. Site Investigation:	$	
3. Consultant Services:	$	20,250
4. Construction Cost:	$	168,750
5. Site Development:	$	
6. Utilities:	$	
7. Telecomm. Systems:	$	
8. Furnishings - Equipment:	$	
9. Contingencies:	$	33,750
10. A/E Supervisory Fee:	$	
11. Construction Mgmt.:	$	
12. Commissioning:	$	
13. Construction Testing:	$	
14. Percent for the Arts:	$	
15. Other:	$	2,250
TOTAL COST	$	225,000
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	225,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required:

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a
2. SECOND BIENNIUM (2004-2005)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a
3. THIRD BIENNIUM (2006-2007)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REPLACE UPGRADE FIRE ALARM SYSTEMS IN VARIOUS LOCATIONS ON CAMPUS $225,000

This request will provide upgrade or replaced alarm systems for buildings that no longer have adequate basic protection for occupants and assets. The 40-year old systems are becoming dangerously unreliable.

Upgrade Fire Alarm System

Old Main Hall	$49,126
Old Library and Auditorium	$23,232
College Motors	$19,118
Industrial Technology/Pool	$23,232

Replace Fire Alarm System

Office Classroom Building	$27,588
PE Complex	$43,802
Library/Administration Building	$39,325

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Replace HVAC System - Mining Geology Building
Project Priority: 7
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Montana Tech of The University of Montana

A. THIS PROJECT: (Check one)

		Major Maintenance Class:	
x	Is an Original Facility	x	Class I
_	Improves an Existing Facility	_	Class II
_	Replaces an Existing Facility	_	Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property	x Outside of 100-Year Flood Plain
_ Site to be Selected	x Utilities Already Available
x Site Already Selected	x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:

The existing main HVAC System in this building has been shutdown for nearly 20 years due to failure of equipment (air handler) and controls. There presently is no forced air ventilation in this building (42,236 gsf) which contains large, tiered classrooms, computer labs, science labs, Dept of Mining Engr'g. Dept. of Geological Engr'g., Telecommunications/Computer Center, Registrar, Admissions, Business Office and Vice Chancellor's and Chancellor's Offices. In-Door-Air quality is extremely poor and the facility is suspect of the "sick-building-syndrome". There are constant on-going complaints about poor air quality, no temperature control and the building is energy inefficient due to windows being open during the winter months. There are no definitive fresh air exchanges in the building.

Impact on Existing Facilities: This project will provide a HVAC system that will meet OSHA and ASHRAE in-door-air quality (IAQ) standards.

Number to be served by Facility: 800/900

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The original (1972) Heating/Ventilation system failed 20 years ago. The original system was poorly designed and inadequate. Due to age and complete failure, no existing components are reparable or useable. The system must be redesigned and a new system installed using current design codes and standards. Indoor-Air quality is extremely poor and the facility is suspect of the "sick-building-syndrom". There are constant on-going complaints about poor air quality, no temperature control and the building is energy inefficient due to windows being open during the winter months. There are no definitive fresh air exchanges in the building.

E. ALTERNATIVES CONSIDERED:

1. Do nothing and leave building without a Ventilation System.
2. Renovate existing HVAC system.

Rationale for Selection of Particular Alternative:

1. Leaving the building without recommended fresh air exchanges based on occupancy will jeopardize the health and well being of the occupants (students, faculty, and staff).

2. Only full funding will solve the ventilation and controls problems.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	
2. Site Investigation:	$	15,500
3. Consultant Services:	$	74,000
4. Construction Cost:	$	478,000
5. Site Development:	$	
6. Utilities:	$	
7. Telecomm. Systems:	$	
8. Furnishings - Equipment:	$	
9. Contingencies:	$	72,000
10. A/E Supervisory Fee:	$	
11. Construction Mgmt.:	$	12,400
12. Commissioning:	$	15,500
13. Construction Testing:	$	5,000
14. Percent for the Arts:	$	3,700
15. Other:	$	25,300
TOTAL COST	$	701,400
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	701,400

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REPLACE HVAC SYSTEM - MINING GEOLOGY BUILDING $701,400

This project will provide a new HVAC System for this 42,000 square foot facility. The original (1972) system failed 20 years ago when the control system did not prevent a freeze up of the steam coil. Poor design was the major contributor to the system failure. Inadequate and poorly designed controls were also a major cause of the failure. By today's design and code standards, no part of the system is reusable. The system must be totally re-designed and a new system installed based on the size and occupancy requirements of the building. The new system must provide for the required fresh air exchanges to every inhabited space within the building. New system controls must be installed to manage the space environment (heating/ventilation/cooling).

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Replace Boiler #3 Upgrade to 120,000 # Per Hour
Project Priority: 8
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

_ Is an Original Facility	Major Maintenance Class:	
_ Improves an Existing Facility	x	Class I
	_	Class II
x Replaces an Existing Facility	_	Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property	x Outside of 100-Year Flood Plain
_ Site to be Selected	x Utilities Already Available
_ Site Already Selected	x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project consists of replacing the 70,000 #1 hr. boiler with a new 120,000 #1 hr. or dual fuel boiler and the associated controls and support equipment.

Impact on Existing Facilities:

The new boiler would provide firm steam capacity for the main campus of The University of Montana - Missoula.

Number to be served by Facility: 13,000 (approx.)

Functional Space Requirements: Existing

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Boiler # 3 is 35 years old and in poor condition. It is the backup boiler in our steam system. The failure of the steam system during a high winter demand could result in multiple system failure in campus buildings. The capacity upgrade will allow full back up for current steam loads.

E. ALTERNATIVES CONSIDERED:

1. Do nothing - Assume the financial and programmatic risk due to equipment failure.
2. Fund project in full.

Rationale for Selection of Particular Alternative:

Only replacing the worn and failing equipment will provide the reliable heating capacity needed to protect the university facilities and campus community.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	
3. Consultant Services:	$	135,400
4. Construction Cost:	$	1,353,900
5. Site Development:	$	
6. Utilities:	$	
7. Telecomm. Systems:	$	
8. Furnishings - Equipment:	$	
9. Contingencies:	$	135,400
10. A/E Supervisory Fee:	$	7,700
11. Construction Mgmt.:	$	
12. Commissioning:	$	3,900
13. Construction Testing:	$	
14. Percent for the Arts:	$	
15. Other:	$	
TOTAL COST	$	1,636,300
Less Other Funds Available		
Source: Auxiliary Funds	$	256,300
	$	
Long-Range Building Fund:	$	1,380,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REPLACE BOILER #3 UPGRADE TO 120,000 # PER HOUR $1,380,000

Boiler # 3 is 35 years old and in poor condition. It is the duel fuel backup boiler in our steam system. The failure of the steam system during a high winter demand could result in multiple system failure in campus buildings. The capacity upgrade will allow full back up for current steam loads. The project includes replacing the 75,000 #1 hr. boiler #3 with a new duel fuel boiler with a steaming capacity of 120,000 #/hr. This replacement would include control, feed water pump and other ancillary equipment. Boiler #3 is the least efficient boiler and regularly has tubes leak. It is the plant's personnel opinion that it is the most likely equipment to have a catastrophic failure. If this would happen in winter and boiler #1 was not available to serve, wide spread damage to main campus would happen.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Renovation - Safety Systems - Disability Access
Project Priority: 9
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility	Major Maintenance Class:
x Improves an Existing Facility	x Class I
	_ Class II
_ Replaces an Existing Facility	_ Class III

B. LOCATION: Missoula
(Check where appropriate)

x Site on Owned Property	x Outside of 100-Year Flood Plain
_ Site to be Selected	x Utilities Already Available
x Site Already Selected	x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project incorporates critical projects from The University of Montana's transition plans for compliance with the Americans with Disabilities Act. These projects were selected for their impact on providing program access to people with various disabilities in the required integrated setting. The projects include elevators, toilet remodels and ramps.

Impact on Existing Facilities:
These projects will upgrade present facilities and provide program access to persons with a wide range of disabilities.

Number to be served by Facility: All UM Disabled Persons

Functional Space Requirements:
Some projects require new floor space to replace that lost to house the new elevator, or access to the new elevator.

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The Federal Government requires that disabled students have access to all programs on campus. The proposed projects will provide or enhance access to campus buildings and program elements as required.

E. ALTERNATIVES CONSIDERED:

1. Leave the facilities in their current condition and continue to deny disabled individuals full access to University programs.
2. Partially fund the project, completing those projects which will provide access to facilities most utilized by disabled students.
3. Fund the entire project.

Rationale for Selection of Particular Alternative:

Disabled individuals will continue to have difficulty participating in University programs as long as these projects are not addressed. The University could be cited for non-compliance with Federal Law, and Federal funding could be lost as a result.

CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	10,000
3. Consultant Services:	$	145,000
4. Construction Cost:	$	1,450,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingency:	$	141,816
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	20,000
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	1,766,816
Less Other Funds Available		
Source: N/A	$	0
_____	$	
Long-Range Building Fund:	$	1,766,816

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)		
Personnel Services	$	0
Operating Expenses	$	2,400
Maintenance Expenses	$	12,800
2. SECOND BIENNIUM (2004-2005)		
Personnel Services	$	0
Operating Expenses	$	2,760
Maintenance Expenses	$	14,720
3. THIRD BIENNIUM (2006-2007)		
Personnel Services	$	0
Operating Expenses	$	3,174
Maintenance Expenses	$	16,928

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

RENOVATION - SAFETY SYSTEMS - DISABILITY ACCESS $1,766,816

The following are priority-ranked projects identified by The University of Montana as being the most urgent needs in meeting the requirements of the ADA legislation:

D2485	Renovations Disability Access Phase I		$416,816
	Industrial Technology/Pool		
	Main floor chair lift modifications and elevator completion	$25,983	
	Pool hoist	6,050	
	Pool disability access modifications	3,850	
	Disability showers and toilet modifications	38,716	
	Entry door replacements	12,000	
	Physical Education Classroom Complex		
	Locker room and toilet facilities	$17,820	
	Access door operators	4,070	
	Disability seating in gym	5,500	
	Rescue assistance signs and communications	2,171	
	Grounds		
	Curb cuts and ramps	$12,650	
	Replace Sidewalks Phase I	35,200	
	Repair parking lot potholes for walking	6,600	
	Auditorium/Old Library/Ceramics Lab		
	Disabled seating and access	$16,500	
	Chair lift to Ceramics Lab	18,700	
	Stairway and stage access	16,500	
	Disability toilet facilities second floor	31,900	
	Chair lift second and third floor	28,750	
	Old Main Hall		
	Disabled bathrooms	$49,500	
	Chair lift fourth elevator level to music classroom & practice room levels	23,400	
	Rebuild ramp way and extend to art area modify fire doors and stairs	19,750	
	Modify music classroom and practice room entries	15,600	
	Rescue assistance communications	1,050	
B2487	Renovations Disability Access Misc. Exterior (access routes, curb cuts/ramps/railings Parking, building entrances, signs and directories)		$200,000
M330	* Install elevator, Math		$700,000
M208	* Install elevator, McGill Hall		$450,000

*These new elevator installations will require approximately $6,400/biennium each in additional maintenance contract costs and approximately $1,200/biennium each in electrical costs.

CAPITAL PROJECT REQUEST

Project Title: Repair/Replacement - Interior - Labs and Classrooms
Project Priority: 10
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

		Major Maintenance Class:
_	Is an Original Facility	
x	Improves an Existing Facility	_ Class I
		x Class II
_	Replaces an Existing Facility	_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property	x Outside of 100-Year Flood Plain
_ Site to be Selected	_ Utilities Already Available
x Site Already Selected	x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project includes repair, and upgrading existing classroom and laboratory facilities through repair or replacement as appropriate.

Impact on Existing Facilities: This will enhance the overall campus instructional environment.

Number to be served by Facility: Approximately 15,000 students and faculty would benefit from this project.

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The existing classrooms and laboratories are of varied age and technology. Modern teaching techniques including access to multimedia sources, electronic presentation, etc. are inadequate. Quality lighting, whiteboards, abatement of hazardous materials (many floors are covered with asbestos containing tile), HVAC systems serving these rooms are not capable of providing a safe and comfortable environment with the increased loads in today's classrooms and laboratories.

E. ALTERNATIVES CONSIDERED:

1. Do nothing.
2. Continue to maintain as well as possible from operation budget.
3. Fund the project to renovate the classrooms and laboratories to bring them up to current technological standards.

Rationale for Selection of Particular Alternative:

The ability to remain competitive recruiting faculty and students is directly related to the quality of the facilities. After $9 million in class lab renovations from two previous projects, there still remains in excess of 180 classrooms which have had little or no renovation since these buildings were constructed. There have been significant programmatic and technological changes which have not been kept up with and have resulted in inadequate laboratory and classroom support to instruction. In some cases, specifically with laboratories, safety issues are a decisive factor in the selection of this alternative.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	410,000
4. Construction Cost:	$	4,100,000
5. Site Development:	$	0
6. Utilities:	$	50,000
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	145,000
9. Contingencies:	$	200,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	50,000
12. Commissioning:	$	30,000
13. Construction Testing:	$	15,000
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	5,000,000
Less Other Funds Available		
Source:_____	$	0
_____	$	0
Long-Range Building Fund:	$	5,000,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REPAIR/REPLACEMENT - INTERIOR - LABS AND CLASSROOMS $5,000,000

Description of Facility/General Description: Previously, The University of Montana requested $7 million in matching funds for a $14 million project for classroom and laboratory renovations. The State funded this request to the extent of $2 million. The University of Montana is requesting the remaining portion of these funds, $5 million, to complete this project. The facilities are inadequate and outdated because of the inability to repair, replace and renovate classrooms and laboratories in keeping with the changes in academic programs. Listed below are some of the areas that still require funding:

M2416

Adams Center/Rec. Annex 161	50,830
Adams Center/Rec. Annex 214	35,070
Natural Sciences 307	120,450
Natural Sciences 307A	3,300
Botany Lab 101	42,705
Botany Lab 102	42,705
* Chem/Pharm 009A	49,530
* Chem/Pharm 103	44,980
* Chem/Pharm 103B	11,940
* Chem/Pharm 201	9,880
* Chem/Pharm 202	31,200
* Chem/Pharm 202B	7,930
* Chem/Pharm 204	35,175
* Chem/Pharm 204B	21,560
* Chem/Pharm 208	7,475
* Chem/Pharm 210	12,935
* Chem/Pharm 210A	8,905
* Chem/Pharm 211	29,280
* Chem/Pharm 403	35,750
* Chem/Pharm 406	75,400
* Chem/Pharm 407	36,400
* Chem/Pharm 408	34,320
Corbin Hall 053	35,805
Corbin Hall 058	48,100
Corbin Hall 065A	4,225
Education Building 312C	14,560
Fine Arts 101	39,455
Fine Arts 101B	10,530
Fine Arts 101C	6,695
Fine Arts 101E	16,900
Fine Arts 101F	25,340
Fine Arts 102	120,835
Fine Arts 208	6,500
Fine Arts 403	134,875
Fine Arts 403A	25,870
Fine Arts 404K	13,370
Fine Arts 103	40,495
Fine Arts 201	33,540
Fine Arts 306	2,860
Fine Arts 310	8,400
Fine Arts 313	5,135
Fine Arts 314	4,810
Jeanette Rankin Hall 009	5,840
Jeanette Rankin Hall 015	8,260
Journalism 211	28,455
Journalism 212	41,340
Journalism 304	207,900
Journalism 304D	5,940
Journalism 304E	5,280
Journalism 308A	30,875
McGill Hall 001	107,900
McGill Hall 002	8,320
McGill Hall 003	5,070
McGill Hall 015	122,850
McGill Hall 016	5,265
McGill Hall 028	21,595
McGill Hall 029	34,475
McGill Hall 030A	22,000
McGill Hall 104	86,580
McGill Hall 121	25,090
McGill Hall 121A	35,230
McGill Hall 122	36,400
McGill Hall 122B	10,160
McGill Hall 201	85,150

McGill Hall 202	45,630
McGill Hall 216	12,935
McGill Hall 224	36,270
Music 001	95,225
Music 001	95,225
Music 002C	6,694
Schreiber Gymnasium 137	136,630
Schreiber Gymnasium 138	136,630
Schreiber Gymnasium 139	14,950
Schreiber Gymnasium 204C	3,600
Schreiber Gymnasium 303	24,045
Schreiber Gymnasium 304	24,045
Schreiber Gymnasium 304A	3,150
Social Science 033	29,575
Social Science 036	65,520
Social Science 048	32,370
Social Science 049	10,335
Social Science 127	28,405
Social Science 230	14,400
Social Science 238	14,400
Social Science 244	67,535
Social Science 250	62,920
Social Science 252	64,415
Social Science 254	51,730
Social Science 258	124,605
Social Science 260	5,655
Social Science 262	59,460
Social Science330	8,400
Social Science 338	14,460
Social Science 340	8,295
Social Science 344	36,190
Social Science 415	14,000
Social Science 418	7,600
Social Science 419	30,225
Social Science 421	26,975
Social Science 422	10,920
Social Science 423	20,865
University Hall 313	18,200
University Hall 315	18,025

B2442

Engineering Hall 104	41,090
Engineering Hall 205	9,957
Engineering Hall 208E	12,832
Museum 113	5,630
Museum 210	10,435
Museum 212	7,871
Petroleum Building 107	16,918
Petroleum Building 108	16,918
Petroleum Building 109	67,462
Petroleum Building 206	61,635
Petroleum Building 207	17,123
Petroleum Building 208	11,572
Petroleum Building 209	123,391
Science & Engineering 204	57,978

D2449

Administration/Library 22	10,626
Administration/Library 25	180,924
Administration Library 26	40,246
Administration/Library 28	32,976
Industrial Tech IT1	33,925
Main Hall 204	248,837
Main Hall 304	18,736
Office Classroom Bldg. 208	5,520
Office Classroom Bldg. 209	5,175
Physical Education Complex 115	20,820
Physical Education Complex 223	27,600

H2461

Poplar Street Building 110	13,432
Poplar Street Building 123	26,530
Poplar Street Building 119	95,684
Poplar Street Building 115	11,653

* If the Chemistry/Pharmacy Renovation is funded then these classrooms will not be part of the request. There are an additional 100 plus classrooms and laboratories besides those in the Skaggs Building, Gallagher Building and the Honors College which have not been listed here.

CAPITAL PROJECT REQUEST

Project Title: Renovate Petroleum Building
Project Priority: 11
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Butte

A. THIS PROJECT: (Check one)

		Major Maintenance Class:
x	Is an Original Facility	
x	Improves an Existing Facility	__ Class I
		x Class II
_	Replaces an Existing Facility	__ Class III

B. LOCATION: All Campuses
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:

General Description:
The Petroleum Building is a three story, 22,000 G.S.F. building, with brick veneer and was constructed in 1953 (45 years old). It is structurally sound with no sign of subsidence. This project provides for total building renovation including all building systems. It would also include repair of the building envelope and installation of new energy efficient windows. It would bring the building into compliance with all building codes including ADA.

Impact on Existing Facilities: The renovation of this building would have no negative affect on existing facilities. However, it would compliment the adjacent and newly remodeled Mill Building and Chemistry Building.

Number to be served by Facility: 800/1000

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The existing building is 45 years old, is energy inefficient with glass block over metal frame single strength glass windows. The buildings systems (electrical mechanical and ventilation) are outdated and no longer support modern day classroom and laboratory techniques. There is no acoustical treatment in any instructional areas, no forced air heating/ventilation and the building is out of compliance with all ADA standards. The interior spaces are inefficiently utilized and will require redesign.

E. ALTERNATIVES CONSIDERED:

1. Do nothing and continue with a inefficient building.
2. Partially fund project.
3. Fund the total request.

Rationale for Selection of Particular Alternative:

Funding the complete request maximizes the benefits to the program and accomplishes the renovation at the least cost per square foot.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	25,500
3. Consultant Services:	$	355,000
4. Construction Cost:	$	3,240,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	50,000
8. Furnishings - Equipment:	$	480,000
9. Contingencies:	$	324,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	53,500
12. Commissioning:	$	39,000
13. Construction Testing:	$	15,000
14. Percent for the Arts:	$	26,000
15. Other:	$	242,000
TOTAL COST	$	4,850,000
Less Other Funds Available		
Source:_____	$	0
_____	$	0
Long-Range Building Fund:	$	4,850,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

RENOVATE PETROLEUM BUILDING $4,850,000

B2264 Petroleum Building Renovation $4,850,000

This project will provide for the total interior renovation and the repair of the exterior building's envelope. This facility is 22,000 GSF, three (3) story, and was constructed in 1953 (*45 years old). It is structurally sound and has a brick and polished granite veneer. It has a good roof. This project would provide for the repointing of the brick veneer and parapet wall-cap. The existing windows are glass block over single strength glass, in metal frames, the glass block and metal frame windows would be replaced with energy efficient windows. The interior layout is poorly designed, space would be redesigned to maximize the efficiency of the square footage available. Utilities servicing the building are sufficient. However, the building's utilities systems are inadequate for modern day instructional delivery and are also out of compliance with today's building code requirements. A new Energy Management System (EMS) will be installed for energy conservation. New lighting and acoustics will be included in the project. The building is presently out of compliance with Life Safety Codes, National Fire Protection Association (NFPA) and Americans with Disabilities Act (ADA). This project will bring the facility into compliance with the aforementioned and will include the installation of an elevator. The building contains three heavily used classrooms, a specialized engineering computer lab, and three heavily used engineering, instructional labs. All instructional areas would be redesigned for maximized utilization and all utilities would be replaced in order to provide support for today's high tech instructional techniques.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Renovate Main Hall - Dillon
Project Priority: 12
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Western Montana College of The University of Montana

A. THIS PROJECT: (Check one)

x	Is an Original Facility	Major Maintenance Class:
_	Improves an Existing Facility	x Class I x Class II
_	Replaces an Existing Facility	_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property	x Outside of 100-Year Flood Plain
_ Site to be Selected	_ Utilities Already Available
x Site Already Selected	x Access Already Available

C. DESCRIPTION OF FACILITY:
General Description:

This project would provide for the most urgent general remodeling and updating (Phase I) including the mechanical, electrical and plumbing systems and general work to enhance the existing character and improve the educational potential of the building.

Impact on Existing Facilities:
This project renovates an existing facility to current standards and eliminate years of deferred maintenance.

Number to be served by Facility: 1,500

Functional Space Requirements: utilizes existing space.

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Main hall is the first building ever constructed on the WMC/UM Campus. Even though this building has been well maintained for over 100 years many of the systems, plumbing, electrical and mechanical, currently do not serve all of the needs required for an educational building. Main Hall is listed in the National Historic Register. General remodeling is needed to restore the character of this historic building.

E. ALTERNATIVES CONSIDERED:

1. Do nothing and continue its decline
2. Partially fund this phase.
3. Fund this complete request.

Rationale for Selection of Particular Alternative:

The funding of the request is the most economical approach. Funding less than this phase (1/3 of the total project) would be to small to address the various building systems.

CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	
3. Consultant Services:	$	277,279
4. Construction Cost:	$	3,080,880
5. Site Development:	$	
6. Utilities:	$	
7. Telecomm. Systems:	$	
8. Furnishings - Equipment:	$	
9. Contingencies:	$	462,132
10. A/E Supervisory Fee:	$	
11. Construction Mgmt.:	$	
12. Commissioning:	$	
13. Construction Testing:	$	
14. Percent for the Arts:	$	
15. Other:	$	30,809
TOTAL COST	$	3,851,100
Less Other Funds Available		
Source:	$	
	$	
Long-Range Building Fund:	$	3,851,100

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

RENOVATE MAIN HALL $3,851,100

Main Hall Renovation $3,851,100

Main Hall, the original structure on WMC's campus, is still used as our major classroom facility. It has been well maintained, but is in need of general remodeling and updating. This project would include updating the most urgent mechanical, electrical and plumbing systems and general remodeling work to enhance the existing character and improve the educational potential of the building. The building is listed on the National Historic Register. Total project cost is estimated to be $3,851,100.

CAPITAL PROJECT REQUEST

Project Title: Repair/Replacement - Animal Lab HVAC System - Health Sci.
Project Priority: 13
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

x	Is an Original Facility	Major Maintenance Class:
_	Improves an Existing Facility	_ Class I
		_ Class II
_	Replaces an Existing Facility	x Class III

B. LOCATION: All Campuses
(Check where appropriate)

x	Site on Owned Property	x	Outside of 100-Year Flood Plain
_	Site to be Selected	_	Utilities Already Available
_	Site Already Selected	_	Access Already Available

C. DESCRIPTION OF FACILITY:
General Description:
The Health Science Building is a laboratory, classroom, and animal housing facility. It was constructed in 1962.

Impact on Existing Facilities: This project would replace the animal HVAC system and the chiller for the entire building. These replacements would assure a reliable HVAC system for the facility.

Number to be served by Facility: 500-700 students and faculty

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The HVAC system, heating/ventilating/air conditioning that supplies heating cooling to the animal housing space and the five upper floors are all original to the Health Science building. The systems have exceeded there life expectancy by ten years and need replacement.

E. ALTERNATIVES CONSIDERED:

1. Let the systems continue to deteriorate and assume the financial risk and programmatic losses due to equipment failure.
2. Partially fund this project at a level to make minimal repairs and partial replacement of failed systems only.
3. Fund the requested project fully.

Rationale for Selection of Particular Alternative:

This project needs full funding for continued reliable delivery of the programs at the university. The engineering and installation of the current equipment was installed with cost savings in mind when it was installed in 1962, with no replacement access provided. Today, a building expansion provision and engineering for future replacements, are required in this request to solve the current problem and future needs.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	30,000
4. Construction Cost:	$	346,000
5. Site Development:	$	0
6. Utilities:	$	5,000
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	35,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	5,000
12. Commissioning:	$	7,500
13. Construction Testing:	$	2,500
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	431,000
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	431,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REPAIR/REPLACEMENT - ANIMAL LAB HVAC SYSTEM HEALTH SCIENCES BLDG. $431,000.00

The HVAC system, heating/ventilating/air conditioning that supplies heating cooling to the animal housing space and chilled water to the five upper floors are all original to the Health Science building. The systems have exceeded their life expectancy by ten years and are being patched and held together to operate. The AC, air handler unit, and damper system on the system that supports the animal facilities is failing fast. The equipment was installed in the basement of the building and then the upper five floors were constructed above it, presenting a major problem. There is no access to remove existing equipment or install new. Therefore, an auxiliary mechanical room will have to be constructed along the north wall of the existing basement mechanical space, with a roof exposed along side of the building at ground level, to access the space to remove the old, and install new AC and heat exchange, HEPPA filter systems. As space, access and age of all the equipment is a major concern, both systems need to address at this time.

At the time of construction and installation of necessary equipment, alternative space to house the existing animals will need to be considered. Some of the animals can be relocated to alternate space that is available on campus. Others will need a temporary housing quarters. The most cost effective means to accomplish this situation would be to do a minimal amount of renovation to an already existing facility to bring it up to USDA standards for animal care facilities. The cost for this portion of the project is included in the total project cost.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Repair/Replacement - Roofs
Project Priority: 14
Biennium: 2002 - 2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

x Is an Original Facility
_ Improves an Existing Facility
_ Other

x Major Maintenance Class II
_ Replaces an Existing Facility

B. LOCATION: Missoula Campus
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:

General Description:

This project will replace selected roof areas on all of the affiliated campuses of The University of Montana.

Impact on Existing Facilities:

New roofs will extend building life, protect assets and improve working conditions in the facilities.

Number to be served by Facility: N/A
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Costly damage to structures and contents could result if any of the scheduled work is deferred. The roof areas in question have been maintained over the years but have deteriorated to a point where they can no longer be effectively repaired. The life expectancy of a low sloped built-up roof is normally 20-30 years. Continued patching and repairing may temporarily delay further deterioration and damage but will require higher replacement costs at a later date.

E. ALTERNATIVES CONSIDERED:

1. Let the facilities deteriorate and incur continuing and greater repair costs.
2. Partially fund this project and only address the most severe projects.
3. Fund all the requested projects.

Rationale for Selection of Particular Alternative:

Fully funding this request addresses the University's Major Maintenance Plan which identifies these roofs as requiring replacement.

CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	55,172
4. Construction Cost:	$	790,800
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	73,566
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	919,538
Less Other Funds Available		
Source:_____	$	0
_____	$	
Long-Range Building Fund:	$	919,538

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2000-2001)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REPAIR/REPLACEMENT - ROOFS $919,538

All of the roofing projects listed below have exceeded their useful life. The replacement systems identified were chosen to provide maximum protection with minimum maintenance. Additionally, where historical structures are involved, preference has been given to maintaining the historical nature of the roofing system. Finally, all roofing systems will incorporate current energy standards.

CID#	Building	Sq.Ft.	Type of Roof Projected	Age	Cost
M834	Replace Roof, Fine Arts	16,400	Hypalon	20 yrs	105,000
M1195	Replace Linguistics Roof (remove Dome)	6,000	Hypalon	20 yrs	77,500
D2450	Roof Structural Reinforcement - Old Gym/Pool Roof	9,500	N/A	72 yrs	48,000
M 1357	Replace Roof, Liberal Arts	30,000	Hypalon	18 yrs	188,125
D2276	Roof Replacement - Industrial Technology Metals Building	7,000	Metal	46 yrs	28,400
M2463	Replace Roof, McGill	15,300	Hypalon	20 yrs	91,062
D2284	Roof Replacement - Office Classroom Building	7,200	Hypalon	30 yrs	60,000
M2464	Roof Replacement Pharmacy/Psychology	12,600	Hypalon	19 yrs	70,875
D2488	Miscellaneous Roof Repairs	102,566	various		24,000
M1282	Replace Roof (flat areas), Brantly Hall	1,500	Hypalon	30 yrs	10,000
M669	Replace Roof, 724 Eddy	4,000	Shingles	30 yrs	14,875
M2140	R/R Replace roof, Law School	19,000	Hypalon	20 yrs	116,875
M882	New Roof Construction, Education Building	9,100	Hypalon	30 yrs	51,139
M1399	R/R New Roof, Clinical Psych	5,100	Hypalon	19 yrs	33,687

CAPITAL PROJECT REQUEST

Project Title: New Construction - Helena College of Technology
Project Priority: 15
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Helena College of Technology of The University of Montana

A. THIS PROJECT: (Check one)

x Is an Original Facility	Major Maintenance Class:	
_ Improves an Existing	_	Class I
Facility	_	Class II
_ Replaces an Existing Facility	_	Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property	x	Outside of 100-Year Flood Plain
_ Site to be Selected	x	Utilities Already Available
_ Site Already Selected	x	Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project would construct a 29,000 gsf new facility to house classroom and laboratories for sciences and nursing needed by the programs of the Helena College of Technology.

Impact on Existing Facilities:

This project would allow the termination of the lease on the Ray Bjork School.

Number to be served by Facility:

Approximately 400 students and 2,000 state employees.

Functional Space Requirements: 29,000 square feet

D. EXPLANATION OF THE 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 put enrollment caps on some classes to the detriment of students as well as the college's ability to grow 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 college technical education will grow nationally and locally.

E. 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.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	25,000
3. Consultant Services:	$	290,000
4. Construction Cost:	$	2,900,000
5. Site Development:	$	400,000
6. Utilities:	$	100,000
7. Telecomm. Systems:	$	50,000
8. Furnishings - Equipment:	$	500,000
9. Contingencies:	$	290,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	50,000
12. Commissioning:	$	35,000
13. Construction Testing:	$	15,000
14. Percent for the Arts:	$	29,000
15. Other:	$	2,000
TOTAL COST	$	4,686,000
Less Other Funds Available		
Source:_____	$	0
_____	$	
Long-Range Building Fund:	$	4,686,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 1.845 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	116,187
Operating Expenses	$	92,406
Maintenance Expenses	$	38,931

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	122,787
Operating Expenses	$	97,653
Maintenance Expenses	$	41,145

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

NEW CONSTRUCTION - HELENA COLLEGE OF TECHNOLOGY $4,686,000

HC2328 Construct new classroom facility $4,686,000
Fulfill expansion classroom needs:

Enrollment has been steadily increasing at the Helena College of Technology and the College has not had a State funded building project since 1973. To alleviate serious space deficiencies, the College has had to put enrollment caps on some programs and classes limiting access to students. This 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 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 new facility would serve approximately 2,000 state employees annually in the State Computer Training Program and will provide new dual purpose computer mediated classroom space in response to the growing and dramatically changing needs for technology based instruction and distance.

At present, there is a severe shortage of instructional office space. It is not uncommon to see two instructors sharing an office designed for a single occupant and in some instances, as many as six people sharing the same office space. The new facility will incorporate adequate instruction office space to meet this demand.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: New Construction - MBMG Building
Project Priority: 16
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Montana Tech of The University of Montana

A. THIS PROJECT: (Check one)

x Is an Original Facility
__ Improves an Existing Facility
__ Replaces an Existing Facility

Major Maintenance Class:
__ Class I
__ Class II
__ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property
__ Site to be Selected
x Site Already Selected
x Outside of 100-Year Flood Plain
__ Utilities Already Available
__ Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project would provide 38,000/44,000 gsf of new facilities for the Montana Bureau of Mines and Geology (MBMG). The Bureau is currently located in Main Hall (built in 1898), the oldest building on campus. The Bureau's operations and offices are spread throughout the building's basement, 2nd and 3rd floors. Due to the age of the building and its utility systems, this facility can no longer safely and efficiently support the bureau's analytical & technical operations. Every available space within Main Hall allocated to the Bureau is utilized.

Impact on Existing Facilities: This project would release the space occupied by the MBMG in the basement, 2nd and 3rd floors. This space would then be available to the college for programmatic issues.

Number to be served by Facility: 150/250 (and the general public)

Functional Space Requirements: 28,500/33,000 NSF

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The Montana Bureau of Mines and Geology service programs in the fields of geology, mineral resource assessment, ground water characterization, and environmental monitoring has grown dramatically in the last several years. The projected five-year growth of the bureau's professional, technical and support staff will increase by 48 personnel. With no other space available the bureau will have no other recourse than to scale back and/or curtail its services. *Please refer to Narrative section for further explanation.*

E. ALTERNATIVES CONSIDERED:

1. Fund project
2. Curtail services and operations
3. Lease space off campus (if available)

Rationale for Selection of Particular Alternative:

#2 & #3 are not realistic or acceptable.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	18,500
3. Consultant Services:	$	475,000
4. Construction Cost:	$	4,750,000
5. Site Development:	$	280,500
6. Utilities:	$	160,000
7. Telecomm. Systems:	$	57,000
8. Furnishings - Equipment:	$	490,000
9. Contingencies:	$	475,000
10. A/E Supervisory Fee:	$	
11. Construction Mgmt.:	$	144,000
12. Commissioning:	$	108,000
13. Construction Testing:	$	30,000
14. Percent for the Arts:	$	47,000
15. Other:	$	165,000
TOTAL COST	$	7,200,000
Less Other Funds Available		
Source:	$	
	$	
Long-Range Building Fund:	$	7,200,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003-2004

Number of Additional Personnel Required: 1.25 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	29,900
Operating Expenses	$	43,500
Maintenance Expenses	$	14,500

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	25,500
Operating Expenses	$	50,700
Maintenance Expenses	$	22,600

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	31,300
Operating Expenses	$	56,900
Maintenance Expenses	$	24,400

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

NEW CONSTRUCTION - MBMG BUILDING $7,200,000

The Montana Bureau of Mines and Geology (MBMG) is located in the oldest building on campus - Main Hall. Built in 1898, this 37,500 square foot building is one of Montana's best examples of the Renaissance Revival style of architecture. It is a three-story masonry structure. No major renovation have taken place in this facility since its original construction. All plumbing and steam heating systems are original and several major failures of these systems have occurred in the past several years. There is no forced air heating or ventilating system in he building. Heating occurs via original steam radiators. Ventilation occurs through opening windows. New electrical switch gear and branch circuit panels were installed in 1995, however, branch circuitry (convenience outlets, lighting & switches, equipment power supplies) wiring remains sub-standard, inadequate and in many circumstances unsafe.

In the last decade the Montana Bureau of Mines and Geology has significantly extended its ability to serve the citizens of the state of Montana. The MBMG's technical and service programs have flourished in recent years, and it currently cooperates with other local, State and Federal agencies and organizations. Growth of this magnitude has certainly provided greater services to the State of Montana in the fields of geology, mineral resource assessment, ground-water characterization, and environmental monitoring. The number of technical and services programs has grown from 30 to 55. Currently the Bureau's professional, clerical, and support staff number approximately 80, all working on the 2nd and 3rd floor and in the basement. The Bureau's personnel is projected to increase to 148 within the next five (5) years.

Main Hall was originally intended as a building for classrooms and faculty offices. The quality of the Bureau's space within Main Hall is very unsafe, inefficient and marginal in all situations. Laboratories within Main Hall are limited to the basement. Water and sewer, electrical, ventilating and heating problems are chronic and do not support the processes and equipment located in the laboratories. Fume hood exhaust is extremely limited and sub-standard. Restroom facilities on the second and third floors are unisex, are out of compliance with UBC, NEC, UPC code requirements, as well as ADA. There is no hot water distribution above the basement floor. Vehicular access to Bureau (Main Hall) is very limited, and involves driving across areas otherwise restricted to pedestrian traffic on the campus mall. Because the Bureau's activities are inherently field-oriented and much of the equipment and supplies are stored within Main Hall, daily vehicular traffic across the Mall area is necessary. This creates a potential health and safety issue for students, faculty and staff. Moreover, limited access to Bureau vehicles, parked more than one-half mile away, imposes an unnecessary burden on Bureau staff productivity.

MISSION OF THE MONTANA BUREAU OF MINES AND GEOLOGY

The Montana Bureau of Mines and Geology (MBMG) was established in 1919 as a public-service and applied-research department of the Montana School of Mines, now Montana Tech of the University of Montana. The MBMG is one of five non-regulatory state service agencies attached to the Montana University System. The Bureau Director serves as the State Geologist and represents Montana in the Association of American State Geologists. The mission of the Bureau may be summarized as:

- To conduct investigations of Montana geology, emphasizing mineral resources and ground-water quality and quantity, and collect, compile, and publish information on those resources

- To cooperate with the other units of the Montana University System and with other local, State, and Federal organizations as may be mutually beneficial in accordance with the regulations of those institutions.

The Bureau conducts applied research and provides information, but has no regulatory functions. Information it gathers is disseminated through publications, maintaining public databases, answering inquiries, and many other forms of contact with the public.

PROGRAMS AND ACTIVITIES

The goal of the Bureau is to provide the public with accurate and unbiased scientific data necessary for responsible development and protection of the geologic resources of the State. The Bureau maintains a core of "traditional" geologic programs, but also conducts a diverse group of programs aimed at protecting the environment and geologic resources. Cooperating with over 70 local, State, and Federal organizations, the Bureau's programs have flourished over the past decade: At any particular time, fifty or more investigations may be in progress. Some of the Bureau's major program categories are listed below with a brief description of each.

Montana Seismograph Network and Earthquake Studies: Western Montana has a history of damaging earthquakes and remains seismically active. MBMG's Earthquake Studies Office maintains the only seismograph network in the State, monitors all earthquake activity in Montana and the surrounding areas, and informs State and Federal emergency-service agencies and the public about the location and severity of earthquakes affecting the State.

Geologic Mapping: Geologic maps are the fundamental tool for any geologic investigation. New geologic maps are being produced for the entire State, incorporating modern geologic concepts unknown when previous mapping was done. Final maps are available in an easily useable and transmittable digital format and are used by many public and private entities for numerous purposes.

Minerals Research: Data from investigations are added to an actively maintained database, and yearly statistics on mining activities are compiled. MBMG archives contain more than 4,000 mineral property files and are extensively used by mineral explorationists, producers, and public and private landowners that are interested in both mineral resources and environmental protection. An important aspect of this program is to encourage responsible development practices that result in minimal impact to the environment.

Petroleum Research: Sedimentary basins in the Rocky Mountain and High Plains region have been prolific petroleum producers. However, petroleum production in the region is declining as smaller producers, who increasingly are responsible for production, lack the capital and expertise to research and implement improved reservoir models and recovery methods. MBMG researchers, supported partially by funds from the U.S. Department of Energy, are conducting field studies and research of records to develop improved subsurface models to encourage exploration and improve production techniques.

Coal-Lands Resources: This program is the primary source of coal-related scientific data for the State of Montana, and includes geologic and hydro geologic evaluations, collection and evaluation of data concerning location, quality, and quantity of coal reserves, and dissemination of coal-related information. Users of the data include coal mining companies, other industries, landowners, regulators, and government agencies. Recent advances in production of coal-bed methane are prompting intense use of these data by both potential producers and government agencies seeking to assure that development is environmentally sound.

Abandoned – Inactive Mines Program: Sponsored by the U.S. Forest Service, the U.S. Bureau of Land Management, and the U.S. EPA, the Abandoned Mine Lands projects are a multi-year effort to evaluate the conditions present at abandoned and inactive mines and mills on all Federal lands in Montana. At present, the Abandoned Mine Lands database at the MBMG contains approximately 8,000 records that provide detailed information on location, geochemistry, physical hazards, and general site conditions for many sites. These data are used by the federal agencies in addressing effects on ground water and other problems of abandoned mines in Montana.

Ground-Water Programs: Realizing that over 60 percent of Montanans rely on ground water for drinking, in addition to the heavy demand from agricultural and industrial needs, the MBMG conducts numerous and widely varied projects to evaluate and protect this most valuable resource. Major categories of investigations include:

Ground-Water Assessment Program: This state-mandated program is a three-part effort that includes ground-water characterization, long-term monitoring, and support of the most comprehensive repository for ground-water resource data in Montana. Currently, the database contains information on more than 180,000 wells; data from approximately 400 new wells are added monthly. All data are stored in digital files for on-line retrieval by the public. The database currently receives about 200 inquiries per month, and the trend is upward as awareness grows.

Superfund Projects: MBMG conducts several projects in conjunction with State of Montana agencies and the U.S. Environmental Protection Agency to address remediation of declared Superfund Sites. MBMG staff have provided expert testimony for the State in legal proceedings associated with some of these sites. Projects include studies of highly contaminated mine waters, contamination from mine tailings and wastes, and discharge from a wood-treatment facility. All of these threaten uncontaminated ground-water supplies.

Yellowstone Controlled Ground-Water Area: The State of Montana has entered a compact with the Federal government aimed at protecting ground-water resources adjacent to Yellowstone National Park. Development may adversely affect the geothermal resources of the park. Through a cooperative agreement with the National Park Service, MBMG is collecting baseline data for the controlled ground-water area. This information will be used by a technical oversight committee to review the boundaries of the Controlled Ground-Water Area and to monitor the effects, if any, of population growth on the quantity and quality of groundwater.

Coal-bed Methane and Ground Water: Coal-bed methane production requires co-production of large quantities of ground water. In an arid region, this ground water is not only a major resource, but also contains high sodium levels that may threaten surface waters and downstream agriculture if dumped on the surface.

Dryland Salinity on Agricultural Lands: Many areas of central and eastern Montana are susceptible to loss of agricultural lands as the result of rising saline ground water levels. MBMG researchers have shown that many of these can be corrected by modifying agricultural practices, and these lands can be restored to former productivity.

Miscellaneous Hydro Geologic Projects: Studies are highly varied, constantly changing, and range from solving salinity problems on agricultural lands to protection of public water supplies.

Analytical Laboratory: The Analytical Laboratory provides multi-element inorganic and organic chemical analysis of waters, rocks, soils, and biological materials for researchers within the Montana Bureau of Mines and Geology, for faculty and students of the Montana Tech research community, and for those serving in other public organizations. More than 1,000 samples are processed annually by the laboratory; the vast majority require more than 30 element determinations per sample. The laboratory provides rapidly available data that are critical to environmental monitoring programs.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Renovate the Fresh Air and Ventilation Systems - PARTV
Project Priority: 17
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

_ Is an Original Facility
x Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
x Class I
_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:
General Description:

Performance Arts, Radio and Television Building has very poor indoor air quality in its general education and office spaces. Additionally, its scene shop has inadequate duct collection and ventilation for scene building activities.

Impact on Existing Facilities:

Improve indoor air quality in the Broadcast and Scene Shop areas.

Number to be served by Facility: 200 - 300

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Due to inadequate fresh air supply and contamination from the scene shop, there is a major indoor air quality problem in the building. This project relocates the exhaust and supply air systems, improves ventilation by providing a larger capacity fresh air system.

E. ALTERNATIVES CONSIDERED:

1. Do nothing. Deal with occupational health complaints and potential litigation.
2. Replace entire HVAC system.
3. Relocate and improve fresh air system.

Rationale for Selection of Particular Alternative:

The renovation and improvements to the fresh air system is the least costly approach to address the problems.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	32,600
4. Construction Cost:	$	326,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	32,600
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	9,800
12. Commissioning:	$	10,000
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	411,000
Less Other Funds Available		
Source:_____	$	0
_____	$	0
Long-Range Building Fund:	$	411,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	8,000
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	9,000
Maintenance Expenses	$	n/a

GENERAL NARRATIVE MATERIAL

RENOVATE THE FRESH AIR AND VENTILATION SYSTEMS - PARTV $411,000

The ventilation air supply is inadequate and contaminated by the scene shop and loading dock fumes. The indoor air quality is extremely poor. This project upgrades the scene shop ventilation and relocates the air intake and replaces the ventilation system serving the Television and Radio office and studio area. Additionally, the office areas and other general lab spaces have very little fresh air. The original system did not allow for sufficient fresh air to these spaces. The result has been elevated Co2 readings and severe stuffiness. This project would solve this problem with additional fresh air make up units and the necessary ducting and utility supply enhancements.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Renovation - Safety Systems -Replace Carpet Mansfield Library
Project Priority: 18
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
__ Class I
x Class II
__ Class III

B. LOCATION: All Campuses
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:

General Description: Replace floor coverings in the Mansfield Library all floors.

Impact on Existing Facilities:
The proposed work will replace carpet in the above mentioned facility. This would remove obsolete, unsafe and unsightly carpet presently in place.

Number to be served by Facility: Entire University community and the Mansfield center.

Functional Space Requirements: 220,000 gsf

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

This is a major maintenance problem. The floor covering in the Mansfield Library has exceeded their useful life and are now becoming a safety hazard. There are several places throughout the building where the carpet is held together with book tape. In some areas the carpet backing is showing.

E. ALTERNATIVES CONSIDERED:

1. Install rubber floor coverings in some heavy traffic areas and carpet the rest.
2. Do nothing and live with the existing conditions.
3. Establish priorities and address the problems one area at a time.

Rationale for Selection of Particular Alternative:
The complete funding of the request will provide for the maximum safety of the occupants, the faculty, students and the staff and eliminate this deferred maintenance issue.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	0
4. Construction Cost: (carpet)	$	863,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	20,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other: (moving and carpet removal)	$	196,755
TOTAL COST	$	1,079,755
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	1,079,755

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

RENOVATION - SAFETY SYSTEMS - REPLACE CARPET MANSFIELD CARPET $1,079,755

The carpet in the Mansfield Library at The University of Montana main campus is worn out. In many areas the carpet causes trip hazards as the seams are loose and worn out. The carpet in some areas is worn down to the carpet backing. In many instances book binding tape is used to prevent further fraying and to reduce the trip hazards. This request is for 21,595 sq. yd of carpet or an alternate floor covering and its installation, labor to remove and relocate all books, shelves and furniture. Everything will have to be moved twice. Once for the old carpet to be removed and then all the books, furniture, etc. will need to be replaced after installation.

CAPITAL PROJECT REQUEST

Project Title: Renovation - Safety Systems
Project Priority: 19
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
x Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Currently Owned Property
_ Site to be Selected
_ Site Already Selected

x Outside of 100-Year Flood Plain
x Utilities Already Available
x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project addresses the protection of public health and safety by providing or renovating fire alarm and sprinkler systems, emergency lighting, building egress systems, and potable water protection. To meet these requirements auxiliary building systems, heating, electrical, etc. are upgraded where required.

Impact on Existing Facilities:
These projects will provide greater protection of occupants and facilities by replacing and upgrading safety systems to meet current standards. The potable water protection and fire alarm improvements are required by state statute to meet current code requirements.

Number to be served by Facility: 15,000 (approx.)

Functional Space Requirements:
Existing..

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:
The projects address five types of safety systems in various university system buildings. Those systems are fire alarm, fire sprinkler, emergency lighting, back flow prevention and egress. Each of the projects identified improve the life safety or protect the health of the building occupants and other members of the community.

Details of each specific project are provided in the General Narrative Materials.

E. ALTERNATIVES CONSIDERED:

1. Do nothing continue accepting the risks.
2. Partially fund the renovations and reduce risks
3. Fund the entire request and provide for the maximum reduction of associated risks.

Rationale for Selection of Particular Alternative:
Funding the entire request is the alternative which provides for the maximum protection of the public health and safety.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	
3. Consultant Services:	$	175,000
4. Construction Cost:	$	1,750,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingency:	$	175,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	43,000
12. Commissioning:	$	15,000
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	2,158,000
Less Other Funds Available		
Source: N/A	$	0
	$	
Long-Range Building Fund:	$	2,158,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a
2. SECOND BIENNIUM (2004-2005)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a
3. THIRD BIENNIUM (2006-2007)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

GENERAL NARRATIVE MATERIAL

RENOVATION - SAFETY SYSTEMS **$2,158,000**

CID#

M2400	Potable Water Backflow Prevention and Booster Pumps at Buildings.	175,000	*
M2401	Second Exit Stairwells, Fourth Floor Fine Arts Bldg.	$650,000	**
M491	Upgrade Fire Alarm System, Health Science	65,000	
M327	Upgrade Fire Alarm System, Math	50,000	
M351	Upgrade Replace Fire Alarm, Social Science	50,000	
B2223	Replace Fire Alarm System/Exit/Emer. Lghtng - Eng. Hall	36,000	
D2311	Install Fire Sprinkler System - Old Main Hall	233,000	
M366	Upgrade Replace Fire Alarm, Forestry	40,000	
B2224	Replace Fire Alarm System Exit/Emer. Lghtng. - Main Hall	65,000	
M428	Upgrade Replace Fire Alarm, School of Education	30,000	
B2225	Replace Fire Alarm System Exit/Emer. Lghtng. - Museum Bldg.	37,000	
M399	Upgrade Replace Fire Alarm, Journalism	40,000	
B2441	Replace Fire Alarm System Exit/Emer. Lghtng. - S/E Bldg.	65,000	
M437	Upgrade Replace Fire Alarm, Music	40,000	
B2250	Retrofit/Install Dust Collection/Ventilation Sys. - Shops	17,000	
M2475	Upgrade Replace Fire Alarm, Science Complex	65,000	
M2465	Seismic Bracing, Mansfield Library	500,000	

*Last biennium the Legislature provided funding for backflow prevention at the inter connects to Mountain Water. This project provides this level of protection between the buildings on the Missoula campus.

** Last biennium the Legislature provided funding for renovation of ventilation and fire sprinkler for the fourth floor of the Fine Arts Building on the Missoula Campus. The project of providing a second exit from the 4th floor further enhances safety for the high fuel threat posed in the fourth floor painting classes.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Removal and/or Encapsulate Asbestos Containing Materials
Project Priority: 20
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Western Montana College of The University of Montana

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
x Class I
_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property
_ Site to be Selected
_ Site Already Selected

x Outside of 100-Year Flood Plain
__ Utilities Already Available
__ Access Already Available

C. DESCRIPTION OF FACILITY:
General Description:

Removes asbestos that could be hazardous to human health.

Impact on Existing Facilities:
Eliminates asbestos exposure to students, faculty and staff.

Number to be served by Facility: 1500

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Federal law requires removal or encapsulation of asbestos to eliminate health hazards. Exposure has been identified in seven campus buildings.

E. ALTERNATIVES CONSIDERED:

1. Do nothing and continue risk.
2. Partially remove asbestos.
3. Totally remove asbestos hazard.

Rationale for Selection of Particular Alternative:

Option 3 is the only option that eliminates the hazard exposure risk.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	0
4. Construction Cost:	$	140,000
5. Site Development:	$	16,800
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	54,200
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	211,000
Less Other Funds Available		
Source:_____	$	0
_____	$	0
Long-Range Building Fund:	$	211,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

REMOVAL AND/OR ENCAPSULATE ASBESTOS CONTAINING MATERIALS $211,000

$211,000

Eliminate Asbestos Hazardous

Remove or encapsulate asbestos to eliminate health hazard and reduce liability. Some locations have direct exposure to students and public. Other areas are hazards to employees until the asbestos is removed.

Auditorium walls
Steam tunnels
Old Main piping
Mathews Hall
P.E. Complex entry ceiling
Office Classroom building fire proofing
Library Administration building structure

CAPITAL PROJECT REQUEST

Project Title: New Construction - Construct Electrical Substation - Missoula
Project Priority: 21
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

x Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property
_ Site to be Selected
_ Site Already Selected

x Outside of 100-Year Flood Plain
x Utilities Already Available
x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project qualifies the University to receive electric service at tranmission voltage and avoid $300,000 annually in distribution charges when we move to open market service.

Impact on Existing Facilities:

This is primarily an economics driven project, little or no impact is anticipated.

Number to be served by Facility: 15,000 (approx.)

Functional Space Requirements: Existing

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Current market analysis indicates the electrical supply cost will increase approximately $300,000 annually when we enter the open market on July 1, 2001 assuming no increases in energy costs. The University can avoid $300,000 of distribution charges annually if it receives power at 100KV.

E. ALTERNATIVES CONSIDERED:

1. Do nothing.
2. Negotiate new cost for service with MPC and the PSC.
3. Build a substation on University property.

Rationale for Selection of Particular Alternative:

The addition of a substation to the campus will position the University to receive the most favorable electric service rates. It has a simple payback of 7.5 years, and a 30 year life.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	150,150
4. Construction Cost:	$	1,501,500
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	150,150
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	70,000
12. Commissioning:	$	35,000
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	1,906,800
Less Other Funds Available		
Source:_____	$	0
_____	$	0
Long-Range Building Fund:	$	1,906,800

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	25,000
Maintenance Expenses	$	25,000

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	25,800
Maintenance Expenses	$	22,580

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	26,600
Maintenance Expenses	$	26,600

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

NEW CONSTRUCTION - CONSTRUCT ELECTRICAL SUBSTATION - MISSOULA $1,906,800

Under the Electric Restructuring Laws and the Montana P.S.C. approved rates for electrical distribution, the University has an opportunity to avoid approximately $300,000 annually in distribution cost. This cost may be avoided by receiving electricity at transmission voltages. There is currently a 100,000 volt transmission line along the north edge of campus. This project will install a substation with transformers, switches, feeders and branch services to qualify the University main campus as a transmission level customer. Current analysis shows an increase in electrical supply cost upon entry into Market Supply Service. This will occur at the end of the transition period, July 1, 2002, unless extended by the Legislature.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Renovations to Re-mediate Exhaust System Noise - Chem. Bldg.
Project Priority: 22
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Montana Tech of The University of Montana

A. THIS PROJECT: (Check one)

x Is an Original Facility
x Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property
_ Site to be Selected
_ Site Already Selected

x Outside of 100-Year Flood Plain
x Utilities Already Available
x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
The recently renovated Chemistry Building lab exhaust system significantly increased the noise level of this facility. This projects would remove this noise level through renovations to muffle the equipment.

Impact on Existing Facilities:

Reduce/eliminate noise level coming from the Chemistry Building exhaust systems

Number to be served by Facility: N/A

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The exhaust systems noise appears to be unacceptable to the residence of the surrounding neighborhood. This project would provide funding for investigation of the cause/source of the noise levels and provide for design and corrective action to re-mediate the noise levels.

E. ALTERNATIVES CONSIDERED:

1. Do nothing and risk litigation with community.
2. Remove lab exhaust system.

Rationale for Selection of Particular Alternative:

The renovation of the lab exhaust system is the best solution because it provides for a better campus environment and supports a healthy town/gown relationship.

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	10,000
4. Construction Cost:	$	55,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	7,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	3,000
TOTAL COST	$	75,000
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	75,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

RENOVATIONS TO RE-MEDIATE EXHAUST SYSTEM NOISE - CHEMISTRY BLDG. $75,000

As a result of the recent renovation of the Chemistry Building, the volume of exhaust air from the four (4) ventilation systems has significantly increased (from pre-renovation levels) noise levels in the neighborhood contiguous to the south border of the campus. The dramatic increase in noise level was not perceived or expected by the college. There is much speculation as to the cause and responsibility associated with source of the "noise". The residences of the neighborhood are calling for re-mediation of the "noise" and have brought the matter to the City Council for their support in reducing the noise level. This project would provide engineering, design and implementation of corrective measures, to reduce the "noise" level.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Deferred Maintenance - Envelope - All Campuses
Project Priority: 23
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_x_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

_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

C. DESCRIPTION OF FACILITY:
General Description:

This project is intended to preserve and protect the University's existing academic buildings from further exterior deterioration.

Impact on Existing Facilities:
The project will preserve existing academic buildings in the University.

Number to be served by Facility: The entire campus community.
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:
Although minor maintenance is conducted on a regular schedule, major exterior maintenance, such as tuckpointing and caulking and wholesale window replacement, is necessary periodically. This has not been done in the past on a regular basis due to budget constraints.

E. ALTERNATIVES CONSIDERED:

1. Continue with minor patching practices and allow buildings to deteriorate.
2. Partially fund the project.
3. Completely fund the project.

Rationale for Selection of Particular Alternative:

The best solution is complete funding at this time, primarily because a coordinated, single project would be considerably less expensive than the piece-meal alternative. Additionally, if preventative maintenance is not performed, this deterioration will demand full scale renovation of the buildings at a later date.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	110,000
4. Construction Cost:	$	1,263,800
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	137,900
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	3,100
14. Percent for the Arts:	$	0
15. Other:	$	9,000
TOTAL COST	$	1,523,800
Less Other Funds Available		
Source:_____	$	0
_____	$	
Long-Range Building Fund:	$	1,523,800

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2004

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a
2. SECOND BIENNIUM (2004-2005)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a
3. THIRD BIENNIUM (2006-2008)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

GENERAL NARRATIVE MATERIAL

DEFERRED MAINTENANCE - ENVELOPE - ALL CAMPUSES $1,523,800

M918	Replace Exterior Windows, Natural Sciences	$199,700
B2238	Replace Windows - Petroleum Building	178,000
M774	Tuckpoint/Caulk/Clean Schreiber Gym	85,700
B2226	Masonry Repair (tuckpoint, replace brick) - Petroleum Bldg	54,000
M 832	Replace Exterior Windows, Fine Arts	186,000
B2227	Ornamental Terra-Cotta Repair (tuckpoint) - Museum Bldg.	47,000
M118	Tuckpointing, Fine Arts	140,900
B2230	Exterior Finishes (repair/paint) - Campus	85,000
M1298	Repair/Replace Retaining Wall Schreiber Gym	169,000
B2229	Repair/Restoration - Main Hall	210,000
M19	Entrance Doors worn out, LA	35,800
B2228	Repair Granite Steps - Main Hall	6,500
M115	Tuckpoint/waterproof/clean Heating Plant	110,200
B2248	Structural Integrity Study - Engineering Hall	8,500
B2249	Subsidency Investigation - Library	7,500

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Exterior Site - Sidewalks & Roadways Replacement
Project Priority: 24
Biennium: 2002 - 2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
x Class II
_ Class III

B. LOCATION: Missoula Campus
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:
General Description:

This project is intended to replace only the most severely deteriorated sidewalks and roadways and paved areas on the University campuses and solve circulation problems. (See attached information for locations.)

Impact on Existing Facilities:

This project will improve the aesthetic quality of the campus, alleviate tripping hazards, make the campus more handicapped accessible, provide better fire access and reduce air pollution.

Number to be served by Facility: The Entire Campus Community
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

This project is intended to upgrade and replace deteriorated sidewalks, roadways and parking lots on campuses. The University of Montana's sidewalks are currently in a state of disrepair, and many have been patched so many times that total replacement is necessary. Various roadways and parking lots have exceeded their useful life and have become dangerous obstacles to people and vehicles.

E. ALTERNATIVES CONSIDERED:

1. Continue with the sidewalks and roadways in their present condition.
2. Partially fund the project and replace only the most hazardous and deteriorated surfaces.
3. Completely fund the project.

Rationale for Selection of Particular Alternative:

To replace sidewalks, roadways and parking lots in whole is the most cost effective method of repairing the problems.

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	12,455
3. Consultant Services:	$	160,000
4. Construction Cost:	$	1,600,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	187,095
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	5,000
14. Percent for the Arts:	$	0
15. Other:	$	10,000
TOTAL COST	$	1,974,550
Less Other Funds Available		
Source: N/A	$	0
_____	$	
Long-Range Building Fund:	$	1,974,550

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2000-2001)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

EXTERIOR SITE - SIDEWALKS AND ROADWAYS REPLACEMENT $1,974,550

M2186	Construct Fire Lanes, Music	$195,000
B2258	Repair Streets	$440,000
D2300	Sidewalk Replacement	$42,350
M232	Construct Fire Lanes, Campus	$300,000
B2246	Curbs/Gutters/Sidewalks	$90,000
D2454	Resurface Campus Roadways	$165,000
M2409	Resurface Portion of Physical Plant Compound	$135,000
B2262	Lighting	$20,500
MC2396	Replace Access Road to West COT	$92,000
M2466	Driveway Access to Research Facility - Fort Missoula	$100,000
M139	Sidewalk Replacement Upgrade - Missoula	$394,700

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Replace Mansfield Library Humidification System
Project Priority: 25
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

_ Is an Original Facility
x Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
x Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:

General Description:
This project replaces non-functioning, worn out humidification equipment in the Mansfield Library.

Impact on Existing Facilities:

Humidity control will help prevent the loss of historic documents and other library holdings.

Number to be served by Facility: Campus Community

Functional Space Requirements: Existing space will be used.

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Library documents are degrading due to fluctuations in temperature and humidity. This project is to provide humidity control by steam Humidification and dehumidify with outside air to maintain a controlled environment for the library holdings.

E. ALTERNATIVES CONSIDERED:

1. Do nothing and allow holdings to continue to deteriorate.
2. Fully fund the project.

Rationale for Selection of Particular Alternative:

Funding the total project is the only alternative which stops the deterioration of the Library's holdings.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	55,000
4. Construction Cost:	$	550,600
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	65,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	25,000
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	695,600
Less Other Funds Available		
Source: N/A	$	0
_____	$	
Long-Range Building Fund:	$	695,600

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2000-2001)

Personnel Services	$	0
Operating Expenses	$	12,700
Maintenance Expenses	$	2,940

2. SECOND BIENNIUM (2002-2003)

Personnel Services	$	0
Operating Expenses	$	12,950
Maintenance Expenses	$	3,000

3. THIRD BIENNIUM (2004-2005)

Personnel Services	$	0
Operating Expenses	$	13,200
Maintenance Expenses	$	3,060

GENERAL NARRATIVE MATERIAL

REPAIR/REPLACEMENT - HVAC SYSTEMS - HUMIDIFICATION - MANSFIELD LIBRARY $695,600

The original Humidification system in the library had an insufficient mixing zone for steam injection. This allowed moisture to collect in the duct work, mold growth and water to rain from the ceiling when operating.

To provide humidity control under this request, campus steam will be piped to the main air handles and 60 zones, purified and introduced into the discharge air stream. Modulating steam controls and space sensors are provided to maintain constant relative humidity as outside air and mixed air properties change. Some duct work modifications are needed to provide for complete absorption of the steam and prevention of mold growth. This system will improve indoor air quality for occupants as well as maintain and preserve library holdings.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Renovation - Safety Systems - Disability Access
Project Priority: 26
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
x Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_ Class II
_ Class III

B. LOCATION: Missoula
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:

General Description:
This project incorporates critical projects from The University of Montana's transition plans for compliance with the Americans with Disabilities Act. These projects were selected for their impact on providing program access to people with various disabilities in the required integrated setting. The projects include elevators, toilet remodels, handrails, room signage, ramps, etc.

Impact on Existing Facilities:
These projects will upgrade present facilities and provide program access to persons with a wide range of disabilities.

Number to be served by Facility: All UM Disabled Persons
Functional Space Requirements: Some projects require new floor space to replace that lost to house the new elevator, or access to the new elevator.

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The Federal Government requires that disabled students have access to all programs on campus. The proposed projects will provide or enhance access to campus buildings and program elements as required.

E. ALTERNATIVES CONSIDERED:

1. Leave the facilities in their current condition and continue to deny disabled individuals access to University programs.
2. Partially fund the project, completing those projects which will provide access to facilities most utilized by disabled students.
3. Fund the entire project.

Rationale for Selection of Particular Alternative:

Disabled individuals will continue to have difficulty participating in University programs as long as these projects are not addressed. The University could be cited for non-compliance with Federal Law, and Federal funding could be lost as a result.

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	30,000
3. Consultant Services:	$	851,000
4. Construction Cost:	$	8,333,403
5. Site Development:	$	73,000
6. Utilities:	$	200,000
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingency:	$	803,172
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	100,000
12. Commissioning:	$	75,000
13. Construction Testing:	$	75,000
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	10,540,575
Less Other Funds Available		
Source: N/A	$	0
	$	
Long-Range Building Fund:	$	10,540,575

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	13,200
Maintenance Expenses	$	70,400

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	13,200
Maintenance Expenses	$	70,400

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

RENOVATION - SAFETY SYSTEMS - DISABILITY ACCESS $10,540,575

The following are priority-ranked projects identified by The University of Montana as being the most urgent needs in meeting the requirements of the ADA legislation:

M152	* Install elevator, Liberal Arts, West	700,000
M211	* Install elevator, Natural Sciences	625,000
M207	* Install elevator, Law School	450,000
M210	* Install elevator, Rankin Hall	700,000
M2470	* Install elevator, Music	625,000
M2469	* Install elevator, University Hall	700,000
M2468	* Install elevator, Forestry	700,000
M2420	* Install elevator, Schreiber Gym	450,000
B	* Install elevator, Petroleum Building	375,000
B	* Install elevator, Engineering hall	145,000
B	* Install elevator, Main Hall	390,000
B	* Retrofit/Adaptation Existing elevators (3)	187,000
UM2458	Assistive Listening Devices, Various Buildings	245,375
M362	No visual or audible signals in elevator	74,500
B	Handrails (Stairs/Tiered Classrooms)	17,500
B	Adaptations/relocation (Fire alarms and extng/tele./etc.)	10,700
B	Laboratory Adaptations (Fume, Hds/Lab Equip./Sinks/etc.)	28,000
B	Drinking Fountains	10,500
B	Signage	42,000
B	Emergency Evacuation Areas	200,000
B	Transportation	45,000
B	Telecommunication Display Devices	25,000

*These new elevator installations will require approximately $6,400/biennium each in additional maintenance contract costs and approximately $1,200/biennium each in electrical costs.

The following are non-priority-ranked projects identified by campuses of The University of Montana as being urgent needs in meeting the requirements of the ADA legislation:

CID	Music	
M438	Non-compliant room signage (100)	3,000
M439	Non-compliant door handles (80)	36,000
M440	Single leaf or doors not 32" wide in Rm 115	14,000
M441	No accessible work station in classrooms	7,000
M14	Non-compliant rest room in Rm 118, 121,122,123	52,000
M447	No emergency phone in elevator	1,000
M448	Door to Dean's office	5,000

CID	Liberal Arts	
M461	Non-compliant room signage (320)	10,000
M462	Non-compliant door handles (275)	124,000
M464	29" opening on all doors in west wing	141,000
M465	Single leaf door not 32" wide Rm 204	5,000

M587	Non-compliant room signage (100)	3,000
M588	Non-compliant door handles (54)	24,000
M589	No area of rescue assistance	56,000
M595	Non-accessible mirrors in rest rooms	5,000
M594	No emergency phone in elevator	1,000
	Urey Lecture Hall	
M607	Non-compliant room signage	1,000
M608	Non-compliant door handles	4,500
	Native American Studies	
M536	No accessible entrance	32,000
M538	Non-compliant room signage	1,000
M539	Non-compliant door handles	9,000
M540	Doors too narrow	25,000
M541	No accessible rest rooms	28,000
	Brantly Hall	
M306	Non-compliant room signage	6,000
M310	Non-compliant door handles	47,000
M311	Elevation change in sidewalk leading to ramp at South Entrance.	1,000
M312	Bar support on accessible toilet too low in rest room 30	2,000
	Corbin Hall	
M303	Non-compliant room signage	2,000
M304	Non-compliant door handles	32,000
M305	Renovate Rest Rooms	28,000
	North Corbin	
M296	Interior door with opening force in excess of 5 lbs	1,000
M298	Non-compliant room signage	2,000
M299	Non-compliant door handles	32,000
	Math	
M331	Math Building Accessible Work Stations	2,000
	The University of Montana Side Walk System	
M1907	Non-compliant curb cuts (transition, slope or nonexistent)	85,000
M167	Replace Sidewalks	275,000
	University Hall	
M320	Non-compliant door handles	28,000
M216	Inaccessible rest rooms	91,000
M323	Pres. receptionist counter too high	2,000
M317	Interior door with opening force in excess of 5 lbs	1,000
M389	29" wide office doors	2,000
M326	Non-compliant handrails on stairs	4,000
M325	No accessible work stations in classrooms	3,000
M904	Install Accessible Drinking Fountains	7,000
	Science Complex	
M525	Non-compliant room signage	5,000
M526	Non-compliant door handles	63,000
M530	30" entrance door in rest rooms Rm 340 and 374	2,000
M531	Inaccessible lavatory in Rm 340 and 374	2,000
M532	Non-compliant signage in elevator	1,000
M533	No visual nor audible signals in elevator	16,000
M534	No emergency phone in elevator	6,000
M158	Modify exits stairs and handrails	33,000
M529	No Wheel Chairs accessible seating Rm 131	5,000
	Fine Arts	
M385	Non-compliant room signage	2,000
M386	Non-compliant door handles	22,000
M387	Elevator signage	1,000
M388	Elevator visual and audible signals	12,000
M389	31" door on rest room	2,000
M390	Needs handrail against building on ramp	1,000
M391	Door at ramp is only 24" wide each leaf	5,000
M224	No accessible rest rooms	26,000
M395	All doors leading to Rm 104 HDCP seating too narrow	30,000
M396	No emergency phone in elevator	6,000
M397	No accessible work stations in Rm 102 and 302	2,000
	Rankin Hall	
M225	Remodel Rest Rooms, Rankin Hall	89,000
	College of Technology - East Campus - General Site	
MC1910	No walkway access to public transportation or public streets	9,000
MC1911	Lack of curb cuts	6,000
MC1912	Non-compliant curb ramps from parking areas	2,000
	College of Technology - East Campus - Administration Building	
MC1913	Non-compliant slope to entrance	11,000
MC1916	Non-compliant door handles	1,000
MC1917	Non-accessible work stations	8,000

MC1918	Non-accessible staff rest rooms	25,000
MC1919	Inaccessible water fountain	2,000
MC1920	Inaccessible Mezzanine & Resource Center	25,000
MC1921	Retrofit Audible and Visual Fire Alarm	11,000
	College of Technology - East Campus - Health Building	
MC1923	Non-compliant room signage	1,000
MC1925	Non-accessible work stations	3,000
MC1926	Non-accessible staff rest rooms	31,000
MC1927	Inaccessible pathways to instructor's offices	1,000
MC1922	Inaccessible Entrance	3,000
	College of Technology - West Campus - General Site	
MC1929	No designated parking areas	1,000
MC1930	No walkway access to public transportation or public streets	15,000
MC1933	Inaccessible exterior entrances	4,000
	COT - West Campus - Trade and Tech. Building	
MC1931	Non-compliant slope to entrance	1,000
MC1934	Non-compliant room signage	1,000
MC1935	Non-compliant door handles	1,000
MC1936	Non-accessible work stations	5,000
MC1937	Inaccessible water fountain	6,000
MC1938	Non-compliant interior thresholds	1,000
MC1939	Inaccessible pathways	2,000
MC1932	Non-Accessible restrooms	31,000
MC1940	Non-compliant stairs (risers and handrails)	3,000
	Journalism	
M400	Non-compliant room signage	1,000
M401	Non compliant door handles	12,000
M402	No accessible work stations in Rm 210,304,306, 307	5,000
M405	Toilet too low in 2nd floor rest rooms	500
M406	Inaccessible lavatories in 2nd floor rest rooms	4,000
M407	Non-compliant signage in elevator	1,500
M408	No emergency phone in elevator	6,000
M409	Door not accessible to Rm 202 - Men's rest room	3,000
M410	No audible or visual signals in elevator	14,000
M398	Inaccessible Door Rm 307	6,000
	Chemistry/Pharmacy	
M419	Non-compliant rooms signage (90)	3,000
M420	Non-compliant door handles (70)	28,000
M1137	Inaccessible ramp and entrance	28,000
M422	Reception counter too high in Dept. Office	6,000
M423	No accessible work stations in Rm 109	6,000
M426	No emergency phone in elevator	6,000
M277	Renovate rest room	55,000
	School of Education	
M429	Non-compliant room signage (70)	2,000
M430	Non-compliant door handles (70)	36,000
M431	No curb on ramp	1,000
M432	No accessible work station in Rm 109	5,000
M433	No insulation on pipes in Rm 113 and 114	500
	McGill Hall	
M471	Non-compliant room signage (50)	1,500
M472	Non-compliant door handles (50)	23,000
M474	No handrails on basement ramp	3,000
M475	No accessible entrance to Rm 001	101,000
M1215	McGill Hall Classroom Renovations	66,000
	Grizzly Pool/Art Annex	
M486	Inaccessible rest room in hall	32,000
M487	Strobes are not in all required spaces	14,000
M488	Non-compliant room signage (20)	1,000
M489	Non-compliant door handles (15)	7,000
	Health Science	
M492	Non-compliant room signage (100)	3,000
M493	Non-compliant door handles (100)	45,000
M495	Inaccessible podium in Rm 205	2,000
M496	Single leaf of door too narrow in Rm 208, 209, 212	13,000
M497	Inaccessible door and obstructed stall, inaccessible lavatory Rm 115 and 213	27,000
M498	Non-compliant signage and signal devices in elevator	16,000
M499	No emergency phone in elevator	6,000
M497	Remainder of Renovate both rest rooms, Health Science	27,000
	Law	
M503	Non-compliant room signage	3,000
M504	Non-compliant door handles	45,000
M505	Inaccessible stalls in rest rooms	18,000
M506	No accessible work stations in classrooms	8,000
M510	Grab bars installed incorrectly in rest rooms	1,000
M511	Lavatory pipes not insulated in rest rooms	500
M512	Non-compliant elevator signage	1,500
M513	No visual or audible signals in elevator	16,000
M514	No emergency phone in elevator	6,000

M414	Non-compliant room signage	10,000
M1207	Non-compliant door handles	33,000
	Physical Plant	
M517	Non-compliant room signage	2,000
M518	Non-compliant door handles	18,000
M520	29" doors on offices	13,000
M521	29" door in Rm 115 - breakroom	2,000
	Radio/T.V. 730 Eddy	
M542	No accessible entrance	26,000
M544	Non-compliant room signage	1,000
M545	Non-compliant door handles	7,000
M546	No accessible rest room	19,000
M547	Interior doors too narrow	14,000
	724 Eddy	
M548	No accessible entrance	19,000
M550	Non-compliant room signage	1,000
M551	Non compliant door handles	11,000
M552	Interior door too narrow	13,000
M553	Inaccessible rest room	11,000
	Skaggs Bldg.	
M598	Non-compliant room signage	5,000
M599	Non-compliant door handles	63,000
M600	Counter too high in Dept. office Rm 120 and 129	1,000
M602	Non-compliant signage in elevator	1,000
M603	No audible nor visual signals in elevator	16,000
M604	No emergency phone in elevator	6,000
	Clinical Psychology	
M613	Non-compliant room signage	1,000
M614	Non-compliant door handles	8,000
M615	Inaccessible lavatory in Rm 107 and 109	4,000
M616	Non-compliant toilet stall in Rm 107 and 109	6,000
M617	Toilet seat too low in Rm 107 and 109	500
M612	Install electric doors, Clinical Psychology	37,000
	P.A.R.T.V.	
M620	Non-compliant room signage	3,000
M621	Non-compliant door handles	38,000
M624	Pipes under lavatories not insulated - Rm 011, 021, 102, 106	1,500
M626	Non-compliant signage - elevator	1,000
M628	No audible signals	16,000
M625	Install Accessible Lavatories, Performing Arts Building	4,000
	Natural Sciences	
M343	Non-compliant room signage	2,000
M344	Non-compliant door handles	22,000
M345	Inaccessible threshold at South entrance	1,000
M219	Necessary upgrades to rest rooms (110 and 106)	42,000
M349	No insulation on pipes in rest room	1,000
	Social Science	
M352	Non-compliant room signage	4,000
M353	Non-compliant door handles	60,000
M354	Entrance ramp south door, no handrails, curb	5,000
M357	Limited accessible work stations in classrooms	7,000
M359	All toilet stalls to small-door too narrow	32,000
M360	Non-accessible lavatories in all rest rooms	9,000
M361	Non-compliant elevator signage	1,000
M364	No emergency phone in elevator	6,000
M363	Toilet seats too high in all rest rooms	17,000
	Forestry	
M367	Non-compliant room signage	2,000
M368	Non-compliant door handles	22,000
M369	Non accessible work stations in classrooms	10,000
M372	No insulation on lavatory pipes	1,000
	Schreiber Gym	
M375	Non-compliant room signage	1,000
M376	Non-compliant door handles	10,000
M377	Non-accessible entrance	14,000
M378	Inaccessible stage	3,000
M223	No accessible rest room	82,000
M380	No accessible facilities in locker rooms	86,000
M382	Non-compliant handrails on stairs	22,000
	Yellow Bay Biological Station - General Site	
M1941	No designated parking	1,000
M1943	Lack of directional signage	8,000
M1944	Inaccessible telephone booths	10,000
M1942	Lack of accessible pathway Yellow Bay	36,000

	Bio. Station - Freshwater Research Laboratory	
M1945	Non-compliant slope (18" rise, 42' run 3.5% slope)	10,000
M1946	Lack of accessible work stations	13,000
M1947	Non-compliant door hardware	1,000
M1949	No automatic door openers	5,000
M1948	Non-compliant signage	1,000
	Bio. Station - M.J. Elrod Laboratory	
M1950	Non-compliant interior door hardware	2,000
M1952	Non-compliant building signage	500
M1953	Lack of directional signage	1,000
M1954	Non-compliant room signage	1,000
M1955	No automatic door openers	5,000
M1956	Inaccessible work stations	10,000
M1951	Inaccessible rest rooms	38,000
	Bio. Station - Dir. House, Dir. Guest House, Dir. Garage	
M1962	Inaccessible pathway to facility	5,000
M1963	Inaccessible entrances	4,000
M1964	Non-compliant door hardware	500
M1965	Non-compliant toilet facilities	18,800
M1966	Non-compliant signage	200
	Bio. Station - Mammalogy Lab	
M1968	Inaccessible entrance	4,000
M1969	Non-compliant door hardware	1,000
M1970	Lack of building signage	500
M1971	Lack of signage at inaccessible entrances	500
M1972	Lack of accessible work stations	2,000
	Bio. Station - Botany Lab	
M1974	Inaccessible entrance	5,000
M1975	Non-compliant door hardware	1,000
M1976	Lack of signage at inaccessible entrances	1,000
M1977	Lack of signage	500
M1978	Lack of accessible work stations	2,500
	Bio. Station - Supply Warehouse	
M1980	Inaccessible entrance	5,000
M1981	Non-compliant door hardware	1,000
M1982	Lack of signage at inaccessible entrances	500
M1983	Lack of signage	500
	Bio. Station - Caretakers Residence	
M1984	Inaccessible entrance	19,000
M1985	Non-compliant toilet facilities	10,000
	Bio. Station - Lakeside Lab	
M1986	Inaccessible entrance	4,000
M1987	Non-compliant door hardware	1,000
M1989	No accessible work stations	4,000
M1990	Non-compliant stairs (handrails, risers)	8,000
	Lubrecht Forest - General Site	
M1993	No designated parking area	1,000
M1994	Lack of directional signage	5,000
M1995	No accessible exterior pathways	20,000
M1996	Non-compliant building signage	1,000
	Lubrecht - Castle Forestry Center	
M1997	Non-compliant room signage	1,000
M1998	Non-compliant door handles	500
M1999	Interior door with opening force in excess of 5 lbs	1,000
M2000	No insulation on lavatory pipes	500
M2001	Inaccessible First Aid Station	500
M2002	No designated accessible parking	1,000
M2003	Non-compliant building signage	500
M2004	Inaccessible entrance	4,000
	Lubrecht Assistant Manager's Residence	
M2005	Inaccessible pathway	1,000
M2006	Inaccessible entrances	9,000
M2007	Non-compliant door hardware	1,000
M2008	Inaccessible bathroom	19,000
	Lubrecht Manager's Residence	
M2009	Inaccessible entrance	15,000
M2010	Inaccessible pathway	1,000
M2011	Non-compliant door hardware	1,000
M2012	Inaccessible bathroom	19,000
	Lubrecht - Camp Rest Rooms	
M2013	Inaccessible pathway to rest rooms	2,000
M2014	Non-compliant signage	500
M2015	Non-compliant showers	13,000
M2016	Inaccessible outhouses	7,500
	Bandy Ranch - General Site	
M2017	Inaccessible entrance to residence/office	19,000
M2018	No accessible rest room in residence	13,000
M2019	No accessible toilet room in shop	8,000
M2020	Non-compliant transitions to shop and out buildings	1,000
M2021	No designated accessible parking	1,000
M2022	No accessible pathway connecting general use areas	3,000
M2023	Lack of signage	500
M2024	Lack of orientation information	3,000

CAPITAL PROJECT REQUEST

Project Title: Repair Replacement - Roofs
Project Priority: 27
Biennium: 2002 - 2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
x Class II
_ Class III

B. LOCATION: Missoula Campus
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:

General Description:

This project will replace selected roof areas on The University of Montana. - Missoula Campus

Impact on Existing Facilities:

New roofs will extend building life, protect assets and improve working conditions in the facilities.

Number to be served by Facility: N/A
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Costly damage to structures and contents could result if any of the scheduled work is deferred. The roof areas in question have been maintained over the years but have deteriorated to a point where they can no longer be effectively repaired. The life expectancy of a low sloped built-up roof is normally 20-30 years. Continued patching and repairing may temporarily delay further deterioration and damage but will require higher replacement costs at a later date.

E. ALTERNATIVES CONSIDERED:

1. Let the facilities deteriorate and incur continuing and greater repair costs.
2. Partially fund this project and only address the most severe projects.
3. Fund all the requested projects.

Rationale for Selection of Particular Alternative:

According to the University's Major Maintenance Plan, selected roofs are now due for replacement. Fully funding the project provides for the maximum asset protection.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$ 0
2. Site Investigation:	$ 0
3. Consultant Services:	$ 20,000
4. Construction Cost:	$ 223,000
5. Site Development:	$ 0
6. Utilities:	$ 0
7. Telecomm. Systems:	$ 0
8. Furnishings - Equipment:	$ 0
9. Contingencies:	$ 16,900
10. A/E Supervisory Fee:	$ 0
11. Construction Mgmt.:	$ 0
12. Commissioning:	$ 0
13. Construction Testing:	$
14. Percent for the Arts:	$ 0
15. Other:	$
TOTAL COST	$ 259,900
Less Other Funds Available	
Source: N/A	$ 0
	$
Long-Range Building Fund:	$ 259,900

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$ n/a
Operating Expenses	$ n/a
Maintenance Expenses	$ n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$ n/a
Operating Expenses	$ n/a
Maintenance Expenses	$ n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$ n/a
Operating Expenses	$ n/a
Maintenance Expenses	$ n/a

GENERAL NARRATIVE MATERIAL

REPAIR/REPLACEMENT - ROOFS $259,900

All of the roofing projects listed below have exceeded their useful life. The replacement systems identified were chosen to provide maximum protection with minimum maintenance. Additionally, where historical structures are involved, preference has been given to maintaining the historical nature of the roofing system. Finally, all roofing systems will incorporate current energy standards.

CID#	Building	Areas	Sq.Ft.	Type of Roof Projected	Age	Cost
M733	P.A.R.T.V.	A-M	350	Replace Drain Pans - Level	17 yrs	23,300
M2411	Building 25	A	17,000	Pitched Roof - Steel	40 yrs	236,600

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Deferred Maintenance Envelope
Project Priority: 28
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_ Class II
x Class III

B. LOCATION:
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:
General Description:

The project is intended to replace leaking and inoperative windows in various buildings and repairing and water proofing various masonry systems.

Impact on Existing Facilities:

The project will make existing facilities more maintenance free, comfortable and energy efficient.

Number to be served by Facility: N/A
Functional Space Requirements (in sq. ft.): N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Leaky and inoperative windows result in loss of heat to the outdoors. Priority windows are at the point of being irreparable. Priority windows are of original installation, dating back to the early 1900s. Various exterior masonry finished and stone work have aged to the point where they are no longer keeping moisture out.

E. ALTERNATIVES CONSIDERED:

1. Let building windows continue to deteriorated.
2. Establish project priorities and address the problem on a piece-meal basis with whatever resources that can be garnered.
3. Fund the work called for this biennium.

Rationale for Selection of Particular Alternative:

The best long-term solution is complete funding at this time, since it offers the highest ratio of benefit to cost by volume purchasing.

CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	360,000
4. Construction Cost:	$	3,625,440
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	501,360
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	40,000
12. Commissioning:	$	0
13. Construction Testing:	$	5,000
14. Percent for the Arts:	$	0
15. Other:	$	
TOTAL COST	$	4,531,800
Less Other Funds Available		
Source: N/A	$	0
	$	
Long-Range Building Fund:	$	4,531,800

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

DEFERRED MAINTENANCE - ENVELOPE $4,531,800

Exterior building masonry and terra cotta on The University of Montana - Missoula Campus is in need of tuckpointing, cleaning and sealing to preserve the interior finishes and the building structure. Windows and doors are in need of replacement due to age, and being worn out. Also keeping in mind future energy conservation measures for the future.

CID#

M 1401	Tuckpointing, North Corbin, Corbin, Brantly	174,000
M 97	Tuckpoint, Mathematics	42,000
D 2493	Miscellaneous Repairs, Window Replc., Glazing, Painting	347,800
M 1286	Replace Single-pane Glass Health Science	436,000
M 947	Clean/Tuckpoint/waterproof Forestry	33,000
M 1681	R/R Paint Exterior	55,000
M 126	Tuckpoint, Business Administration	62,000
M 928	Clean/tuckpoint/waterproof Soc. Science	100,000
M 134	Entrances, Exit & Door Renovate	20,000
M 285	Install New Entrance Doors, Chemistry	13,000
M 905	Exterior doors Replacement Music	51,000
M 790	Replace Exterior Windows, Cont. Ed.	68,000
M 108	Tuckpoint, Botany	57,000
M 1162	Exterior doors Replacement McGill	42,000
M 907	Seal/clean/waterproof bricks Music	38,000
M 775	Replace Exterior Windows, Schreiber Gym	182,000
M 1159	Replace Exterior Windows, Forestry	276,000
M 103	Renovate Windows, Rankin Hall	182,000
M 883	Clean/tuckpoint/waterproof Liberal Arts Building	168,000
M 797	Replace Exterior Windows, Journalism	322,000
M 940	Replace Exterior Windows, Botany Annex	47,000
M 1382	Tuckpointing, Science Complex	138,000
M 721	Tuckpointing, McGill	61,000
M 1479	Tuckpoint - AD & HB Buildings	8,000
M 1432	Replace Doors, Forestry Green House	14,000
M 1259	Step Repairs, Journalism	7,000
M 124	Tuckpoint, Chemistry	77,000
M 2190	Replace Ext. Windows/Insulation, Elrod, Bio. Station	130,000
M 761	Replace Exterior Windows, Math	176,000
M 125	Replace Steps, Chemistry	46,000
M 74	Replace Exterior Windows, UH	310,000
M 21	Replace Exterior Windows, McGill	262,000
M 1386	Tuckpointing, Pharmacy	120,000
M 23	Renovate exterior, Art Annex	250,000
M 782	Tuckpoint/clean/waterproof Continuing Ed	33,000
M 902	Windows Replacement, Music	112,000
M 2433	Clean & Waterproofing Masonry University Hall	72,000

CAPITAL PROJECT REQUEST

Project Title: Deferred Maintenance - H&V, Sewer and Water Systems
Project Priority: 29
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
x Class II
_ Class III

B. LOCATION:
(Check where appropriate)

x Site on Owned Property
_ Site to be Selected
x Site Already Selected

x Outside of 100-Year Flood Plain
_ Utilities Already Available
_ Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:
This project will replace steam lines, install underground utility lines, reline sewer lines.

Impact on Existing Facilities:
This project will extend the life of various utility distribution systems and enhance various irrigation systems.

Number to be served by Facility: N/A
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

These various utility systems have exceeded their useful life and are now causing increased maintenance and are in danger of failing.

E. ALTERNATIVES CONSIDERED:

1. Let the facilities continue to deteriorate.
2. Partially fund the project.
3. Fund all the work scheduled for this biennium.

Rationale for Selection of Particular Alternative:

The best long-term solution is to complete funding at this time, since it offers the highest ratio of benefit to cost.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	
3. Consultant Services:	$	200,000
4. Construction Cost:	$	2,132,725
5. Site Development:	$	
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	200,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	50,000
12. Commissioning:	$	0
13. Construction Testing:	$	25,000
14. Percent for the Arts:	$	0
15. Other:	$	
TOTAL COST	$	2,607,725
Less Other Funds Available		
Source: N/A	$	0
	$	
Long-Range Building Fund:	$	2,607,725

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2002

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

Deferred Maintenance - H&V, Sewer and Water Systems $2,607,725

CID#

D2453 Water and Sewer Repairs $45,375
Our portion of the Dillon Utility System needs to be surveyed to insure that we are not the major contributor to their water supply problems and that we are not contaminating adjacent properties water supply with our sewage especially since we are on the highest ground in the system and are their largest user.

M1616 Replace Steam Tunnel Extension, Business Administration to Health Sciences $696,300
The system piping studies that were completed in 1969 & 1995 identified the need to upgrade the steam distribution to the northwest portion of campus. This area of tunnel has been repaired several times during the past 10 years.

M1151 Install Underground Utility Lines, Biological Station $130,000
Currently the Biological Station has approximately ½ mile of overhead high voltage utility lines that are susceptible to tree falls and lightning making them more prone to start fires. Installing these lines underground would not only be more aesthetically pleasing, but safer. Considering the age of the lines and poles there may be potential cost savings as the utility company would be replacing these in the near future due to age and deterioration.

M2427 Replace Buried Steam Lines serving Music, Education and Law Building $1,625,000
The direct buried steam lines serving these buildings have been sleeved up to three times and can not undergo additional repairs and maintain sufficient flow. This project will replace these lines and create a loop system to ensure steam flow in the system.

D2484 Repair/Replacement - Utilities $111,050
Sewer manholes and mains need repairs. Water supply-pipes are to small to supply campus. Water treatment - new city supply has 28-grain hardness, causing major maintenance and sanitation problems, campus wide. Old main hall sewer trunk line has failed.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Deferred Maintenance - Flooring Systems
Project Priority: 30
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
__ Class I
_x_ Class II
__ Class III

B. LOCATION: (Check where appropriate)

_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

C. DESCRIPTION OF FACILITY:

General Description:

This project is a group of smaller projects replacing carpet and floor tile installations in various University buildings.

Impact on Existing Facilities:

The proposed work will replace carpet in the above-mentioned facilities and remove obsolete and unsafe material presently in place.

Number to be served by Facility: Entire University Community
Functional Space Requirements (in sq. ft.): N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The floor coverings identified in the General Narrative have exceeded their useful life and are now becoming a safety hazard.

E. ALTERNATIVES CONSIDERED:

1. Do nothing and live with existing conditions.
2. Establish priorities and address the problems on a piece-meal basis.
3. Fund all the work requested.

Rationale for Selection of Particular Alternative:

The complete funding of the request will provide for the maximum safety of the occupants.

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	50,000
4. Construction Cost:	$	738,849
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	50,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	
TOTAL COST	$	838,849
Less Other Funds Available		
Source: N/A	$	0
	$	
Long-Range Building Fund:	$	838,849

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2002

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2005-2006)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

DEFERRED MAINTENANCE - FLOORING SYSTEMS $838,849

B2243 **Recarpet/Retile - Main Hall $36,000**

D2299 **Replace Carpet - Library/Administration, OC, Old Main $42,449**
Rubber padding below carpet is old and breaking up. This break up is causing tears in the fabric. Carpet is pulling away from walls. New carpeting would be in the Office Classroom building. Administration Building and Old Main Building.

B2244 **Recarpet/Retile - Engineering Hall $23,000**

B2245 **Recarpet/Retile - Petroleum Building $32,000**

B2444 **Recarpet Circulation Areas - Science/Engineering Building $16,000**

M2322 **Replace Carpet, Academic and General Buildings $689,400**
The carpet in several academic and general buildings needs to be replaced. In many areas book binding tape has been used to prevent tripping hazards as well as stop the carpet from fraying. In numerous locations there is carpet that is worn to the threads. This request is for 30,913 Sq. Yards and the funding required to move the furniture, replace the carpet and re-install the furniture.

Building	Total Sq. Ft.	Building	Total Sq. Ft.
Science Complex	13,065	Pharm/Psych.	15,808
Main Hall	19,737	600 University	1,721
Liberal Arts	12,829	Field House	21,166
Social Science	15,252	Physical Plant	9,252
Mathematics	6,625	Fine Arts	3,827
UREY	2,306	Music	2,773
Chem/Pharm.	3,557	N. Corbin	615
Journalism	6,808	Education	8,172
Health Science	1,296	Schreiber	2,307
Botany	4,131	Health Service	10,166
P.A.R.T.V.	23,640	730 Eddy St.	2,178
Corbin Hall	16,998	Law	32,173
McGill Hall	6,150	Ethics Center	1,631
Brantly	20,727	724 Eddy St.	3,350
Forestry	8,260	Clinic. Psych	4,625
Rankin Hall	2,309	Gallagher Bld.	58,470
Cont. Education	4,606	Honors Col.	7,790

CAPITAL PROJECT REQUEST

Project Title: Deferred Maintenance - Foundations
Project Priority: 31
Biennium: 2002 - 2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
x Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
x Class I
_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property
_ Site to be Selected
_ Site Already Selected
x Outside of 100-Year Flood Plain
_ Utilities Already Available
x Access Already Available

C. DESCRIPTION OF FACILITY:
General Description:

This project is intended to repair building foundations and other soil retaining systems that have deteriorated because of age.

Impact on Existing Facilities:
The repair will stop further deterioration and waterproof interior wall surfaces below grade which now leak, causing damage to plaster and furnishings.

Number to be served by Facility: N/A
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

A stone rubble was the foundation material used for construction in the early 1900's. The mortar between the stones has deteriorated allowing groundwater to seep through the cracks and deteriorating interior finishes. This work category also includes steps, building entrance and other earth retaining structures which have or are about to fail.

E. ALTERNATIVES CONSIDERED:

1. Let the foundations go, causing the failure of the structure.
2. Temporarily patch the walls from the inside and have the same problem again in five years.
3. Permanently Repair the foundations from the outside

Rationale for Selection of Particular Alternative:

The alternative chosen, permanent repair is the least expensive life cycle cost.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	25,000
3. Consultant Services:	$	62,500
4. Construction Cost:	$	625,000
5. Site Development:	$	25,000
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	62,500
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	25,000
12. Commissioning:	$	0
13. Construction Testing:	$	
14. Percent for the Arts:	$	0
15. Other:	$	
TOTAL COST	$	825,000
Less Other Funds Available		
Source: N/A	$	0
	$	
Long-Range Building Fund:	$	825,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

GENERAL NARRATIVE MATERIAL

DEFERRED MAINTENANCE - FOUNDATIONS $825,000

CID#		
B2271	Repair/Replace (south, east & west walls) - Greenhouse	$48,000
M655	Waterproof foundation, Heating Plant	$47,500
B2272	Repair Retaining Walls & Concrete Decks - M/B Bldg.	$78,000
M917	Foundations waterproofing, Rankin Hall	$58,400
B2247	Tunnel(s) Repair - Campus	$110,000
M847	Foundations waterproofing, Main Hall	$77,900
M1418	R/R Front Entry & Steps, Brantly	$138,000
M1687	R/R South & West Steps & Entrance, Fine Arts	$72,100
M746	Repair Front Steps of building, P.A.R.T.V.	$20,300
M2191	Biological Station Shoreline Erosion	$174,800

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Alarm and Extinguishing System Renovations
Project priority: 32
Biennium: 2002- 2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

_ Is an Original Facility
x Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_ Class II
_ Class III

B. LOCATION:
(Check where appropriate)

x Site on Owned Property
_ Site to be Selected
x Site Already Selected

x Outside of 100-Year Flood Plain
_ Utilities Already Available
x Access Already Available

C. DESCRIPTION OF FACILITY:
General Description:

This group of projects is a combination of items noted by State agency inspections. They range from items required by the State Fire Marshall's Office (to comply with the Uniform Fire Code) to citations received from the State Department of Labor Office to correct potential health risks to students, faculty and staff.

Impact on Existing Facilities:
The funding of this project would bring several campus buildings into compliance with State-mandated fire and safety codes. The project would provide building occupants with the knowledge that, should an emergency occur, the required safety devices exist to help mitigate the problem and would decrease the probability of serious injuries.

Number to be served by Facility: Entire Campus Community
Functional Space Requirements (in sq. ft.): N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

This project addresses the deficiencies, which were cited by various State and local agencies, that affect the health and safety of students, faculty and staff. These projects range in scope from fire suppression systems and fire separation that would limit the spread of fire and smoke, thus assisting in evacuation and asset preservation during a fire. After the fire protection issues, various other safety issues are identified.

E. ALTERNATIVES CONSIDERED:

1. Supply additional, portable devices in an attempt to increase the level of safety.
2. Restrict the use of facilities to reduce the probability of problems.
3. Fund in full to provide the required level of safety for students, faculty and staff.

Rationale for Selection of Particular Alternative:

Only full funding will meet the mandated solution required by State codes.

CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	530,000
4. Construction Cost:	$	5,361,600
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	710,400
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	50,000
12. Commissioning:	$	50,000
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	
TOTAL COST	$	6,702,000
Less Other Funds Available		
Source: N/A	$	0
	$	
Long-Range Building Fund:	$	6,702,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

GENERAL NARRATIVE MATERIAL

ALARM AND EXTINGUISHING SYSTEM RENOVATIONS $7,150,000

a. Fire Suppression Systems

M182	Replace Fire Escape Door/Panic, University Hall	14,000
M1439	Install Fire Sprinklers, Math	84,000
M1331	Install Fire Sprinklers, Rankin	74,000
M781	Replace Fire Sprinkler System, Schreiber	193,000
M948	Install Sprinkler System, Forestry	105,000
M816	Install Sprinkler System, Journalism	130,000
M1440	Install Fire Sprinklers, Cont. Ed.	30,000
M1314	Install Fire Sprinklers, Botany Annex	22,000
M800	Install Fire Sprinklers, Art Annex	181,000
M1422	Install Fire Sprinklers, Corbin	104,000
MC1278	Install Sprinklers, COT West Campus	74,000
M1400	Install Fire Sprinklers, North Corbin	94,000
M1438	Install Fire Sprinklers, Radio/TV	320,000
M2184	Install Fire Sprinklers, Clinical Psych.	23,000
M187	Remove Transoms-Add Fire Doors, Chem/Pharm	73,000
M194	Add Fire-Rated Doors & Remove Transom, Math	50,000
M195	Add Fire-Rated Doors & Remove Transom, Rankin	55,000
M922	Transom Window/Fire Doors, Botany	59,000
M197	Replace Doors & Transoms, Forestry	26,000
M191	Remove Transoms, Liberal Arts	106,000
M2143	Install Smoke Detectors, Botany Annex	13,000
M188	Install Fire-Rated Doors, Fine Arts	65,000
M199	Install Fire-Rated Doors, Corbin Hall	71,000
M2144	Install Fire-Rated Doors, Brantly Hall	86,000
M190	Install Fire-Rated Doors, Business Administration	37,000
M193	Install Fire-Rated Doors, Health Science	137,000
M192	Install Fire-Rated Doors, Liberal Arts	179,000
M633	Fire-Rated Door Assemblies, Schreiber Gym	73,000
M198	Install Fire-Rated Doors, McGill Hall	76,000
M202	Install Fire-Rated Doors, Music	51,000
M745	Install Auto-Door Closures, P.A.R.T.V.	77,000
M203	Install Fire Corridor, Physical Plant	28,000
M1120	Install Fire Suppression System, University Hall	147,000
M924	Install Fire Sprinkler System, Botany	103,000
M228	Install Sprinkler System, Liberal Arts	453,000
M229	Install Sprinklers, Music	167,000
M231	Extend Sprinklers, Law	264,000
M842	Install Fire Sprinklers, Fine Arts	250,000

[illegible]	Install Fire Sprinklers, McGill II	275,000
M235	Install Sprinkler System, Brantly Hall	175,000
M237	Extend Sprinkler System, Physical Plant	230,000
M935	Install Fire Suppression Room, Social Science	428,000
M236	Extend Sprinkler System, Health Science	283,000
M751	Extend Fire Sprinkler System, Upper Floors, Pharm/Psych	200,000
M1275	Central Sprinkler Supervisor Station	53,000
MC1276	Install Auto Sprinkler, COT Kitchen, Admin.,	37,000
	TOTAL	**$6,702,000**

b. Fire/Security Information Boxes

M1097	Install Fire Department Lock-Boxes, Academic Buildings	**$98,000**

c. General

M1226	Wastewater Collection, Various Buildings, Biological Station	95,000
M109	Replace Main Stairway Treads, Social Science	69,000
M241	Replace Stairway to Basement, Rankin Hall	20,000
M665	Install Eye-Wash Station/Shower, Health Science	16,000
M658	Auto-Smoke Curtain for Elevator, Social Science	70,000
M240	Modifications to Paint Shop to Meet "H" Occupancy Code, Physical Plant	31,000
M2250	Retrofit/Install Dust Collection/Ventilation Sys. - Shops	16,000
M239	Add Second Exit from Balcony, Music 215	206,000
M746	Replace Front Steps, P.A.R.T.V.	12,000
M242	Enclose Stairs - Business Administration, Corbin, McGill	221,000
MC1483	Install Emergency Lighting, COT Admin.	4,000
MC1510	Install Emergency Lighting, COT TT1	8,000
MC1277	Above-Ground Vault, COT TT1	26,000
MC1279	Water Mains and Fire Hydrants, West Campus	37,000
	TOTAL	**$831,000**

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Deferred Maintenance - HVAC Systems - All Campuses
Project Priority: 33
Biennium: 2002 - 2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
x Class I
_ Class II
_ Class III

B. LOCATION:
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:

General Description:

This project replaces existing, worn-out heating, ventilating and air conditioning equipment.

Impact on Existing Facilities: N/A

This project will reduce maintenance and energy costs.

Number to be served by Facility: N/A
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The HVAC equipment in these buildings is past its useful life and is costly to maintain and operate. The thermal environment is difficult to maintain. Occupants are often opening windows in winter to keep their spaces from over-heating. In other areas, electric heaters are used to keep warm.

E. ALTERNATIVES CONSIDERED:

1. Do nothing and continue to pay the high cost of maintenance and energy.
2. Partial replacement.
3. Fund total request.

Rationale for Selection of Particular Alternative:

Replacing the worn-out HVAC equipment is the most cost-effective alternative. It will also improve the working environment and enhance research.

CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	860,000
4. Construction Cost:	$	8,612,737
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	1,825,913
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	75,000
12. Commissioning:	$	100,000
13. Construction Testing:	$	10,000
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	11,483,650
Less Other Funds Available		
Source: N/A	$	0
_____	$	
Long-Range Building Fund:	$	11,483,650

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a
2. SECOND BIENNIUM (2004-2005)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a
3. THIRD BIENNIUM (2006-2007)		
Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

DEFERRED MAINTENANCE - HVAC SYSTEMS - ALL CAMPUSES $11,483,650

CID#			
M	1089	Replace 6" Interior steam line & buried connection to tunnel, Univ. Hall	183,250
MC	1521	Upgrade Exhaust Systems, COT TT2	177,500
B	2232	Repair/Replace HVAC System - Petroleum Building	345,000
B	2233	Install HVAC System - Museum Building	370,000
MC	1517	Replace Shop Heaters/Make-up Air Units, COT	61,250
B	2234	Upgrade/Extend HVAC System - Library	240,000
M	2409	Relocate Fresh Air, Mans. Library	118,750
B	2240	Repair/Replace Steam & Condensate Mains - Main Hall	545,000
MC	2395	Install Heat, COT TT 3	43,750
B	2241	Repair/Replace Basement Water/Sewer Lines - Main Hall	490,000
M	171	Campus Energy Management System (EMS)	511,250
MC	1516	Replace Heating Units, classroom, office & library, COT TT2	16,250
M	852	Replace and Renovate failed HVAC system, McGill	188,750
MC	1515	Replace Heating Units, COT TT1	16,250
M	1102	Install Air Conditioning IMS, Social Science	173,750
MC	1513	Replace Make-up Air Units, COT Trade Tech.	96,250
MC	1484	Install Back-up Boiler, COT Admin. Bldg.	41,900
M	2428	Rankin Hall Steam System Zoning	347,750
M	833	Renovate HVAC, Fine Arts	1,651,000
M	2477	Replace HVAC, , PARTV	1,850,000
M	635	Replace Turbine Pump #1, Heating Plant	192,000
M	636	Replace Feedwater Pump #2, Heating Plant	68,000
M	1138	Renovate boilers for alt/fuel, Heating Plant	150,000
M	645	Expand Tunnel System R/R Gallagher, UH, Forestry, Education	1,291,000
M	647	Replace id fan drives Heating Plant	144,000
M	2412	Replace Steam distribution system exp joints, Heating Plant	65,000
M	2413	Replace Heating and ventilation system, Journalism	764,000
M	697	Repair HV System, N. Corbin	402,000
M	113	Replace Heating and Ventilation System, Schreiber Gym	914,000
MC	1384	Heating System Timer Set Back, COT Admin	10,000
MC	1512	Replace Shop Heaters, COT TT	16,000

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Deferred Maintenance- Electrical Systems
Project Priority: 34
Biennium: 2002 - 2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
x Class II
_ Class III

B. LOCATION:
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:
General Description:

1. This project is intended to meet existing codes as directed by State Safety and Fire Marshall.

2. The project is intended to upgrade all underpowered buildings. At the present time, the top prioritized buildings are in dire need of electrical upgrading because of the use of more technical electronic equipment today.

Impact on Existing Facilities:

1. The project will satisfy violations from State inspectors.

2. The project will enhance present and future electrical service requirements.

Number to be served by Facility: N/A
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The electric distribution systems in various buildings of The University of Montana are maxed out and can not accommodate the increasing demand for electric service due to modernization of academic and administrative programs. Additionally electrical services in the older buildings cannot handle ground fault interrupters which have been requested by code authorities.

Because of the antiquated electrical wiring in the buildings referenced in Group #1, the installation of ground fault protection systems cannot be without upgrading the associated building's electrical distribution system.

E. ALTERNATIVES CONSIDERED:

1. Do not fund the project and risk life safety problems.
2. Fund part of the project.
3. Fund all of the project.

Rationale for Selection of Particular Alternative:
Funding all of the projects within this request provides for increased life safety and allows academic programs to meet current needs.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	120,000
4. Construction Cost:	$	1,252,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	120,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	
TOTAL COST	$	1,492,000
Less Other Funds Available		
Source: N/A	$	0
	$	
Long-Range Building Fund:	$	1,492,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2002

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

GENERAL NARRATIVE MATERIAL

REPAIR/REPLACEMENT - ELECTRICAL SYSTEMS $1,492,000

GROUP 1

CID#		
M659	Modify electrical system to accept ground fault interpreter - Health Sciences	14,000
B2251	Replace Branch Circuits (Phase II) - Main Hall	322,000
M664	Modify electrical system to accept ground fault interpreter - McGill Hall	12,000
B2252	Replace Switch Gear, Sub Panels, Circuits - Engineering Hall	182,000
M663	Modify electrical system to accept ground fault interpreter - Social Science	4,000
B2253	Electrical Upgrade (add main circuit panel) - S/E Building	98,000
M661	Modify electrical system to accept ground fault interpreter - Pharmacy/Psychology	8,000
B2254	Replace Main & Distribution Panels - Petroleum Building and primary feed from Social Science	240,000
M25	Replace antiquated secondary electrical panels - Health Sciences	278,000
M20	Replace antiquated secondary electrical panels - McGill Hall	120,000
M914	Replace antiquated secondary electrical panels - Rankin Hall	132,000
M80	Replace antiquated secondary electrical panels - Math	82,000

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Movable Equipment and Furnishings
Project Priority: 35
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

_ Is an Original Facility
x Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_ Class II
_ Class III

B. LOCATION:
(Check where appropriate)

x Site on Owned Property
_ Site to be Selected
_ Site Already Selected

x Outside of 100-Year Flood Plain
x Utilities Already Available
x Access Already Available

C. DESCRIPTION OF FACILITY:

General Description:

This project is intended to fund the purchase and replacement of furniture, office furniture, additional shelving, study carrels for the library.

Impact on Existing Facilities:

The shelving will accommodate the growing library collection. The study carrels will help reduce the shortage of study stations in the library.

Number to be served by Facility: Entire Campus Community
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

The Library has grown and needs additional storage shelves, and the Library has never had sufficient study stations and considerable numbers of offices have insufficient furniture or are worn out.

E. ALTERNATIVES CONSIDERED:

1. Do not fund the project.
2. Fund part of the project.
3. Fund the complete project.

Rationale for Selection of Particular Alternative:

The funding of the complete request provides for a proper instructional environment.

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	
4. Construction Cost:	$	
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	1,898,000
9. Contingencies:	$	
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	
TOTAL COST	$	1,898,000
Less Other Funds Available		
Source: N/A	$	0
	$	
Long-Range Building Fund:	$	1,898,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

GENERAL NARRATIVE MATERIAL

MOVABLE EQUIPMENT AND FURNISHINGS $1,898,000

CID#

M159 400 Study Carrels and Chairs, Install Compact Shelving - Library $920,000

The Mansfield Library addition, completed in 1978, has never been fully furnished. Rather, funding for desks and chairs has come in installments that presently leave the building about 1,200 stations short of the study stations needed to meet current recommended standards that call for seating space that can accommodate 25 percent of the total student enrollment. The project would provide study carrels, tables and a variety of seating toward meeting this requirement by adding 400 study stations at a cost of a little more than $650 per station (desk-top space and chair).

M1209 Replace Office Furniture (445 sets) $978,000

This request is for the purchase of 445 sets of office furniture to replace worn out and outdated office furniture of the faculty and staff.

CAPITAL PROJECT REQUEST

Project Title: Alarm Monitoring and Recording System Renovations
Project Priority: 36
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - Missoula

A. THIS PROJECT: (Check one)

_ Is an Original Facility
x Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:

General Description:
Currently, the buildings on campus have little or no certified central life safety monitoring capabilities. Existing fire alarms are for individual buildings & report to a variety of locations, if they are reported at all. This project would install a central monitoring reporting system of all maintenance alarms through the use of a building automation system and a fiber optic backbone.

The Admin. Building at the Missoula COT, has no alarm on the boiler to warn of failure. An alarm needs to be installed when the building is unoccupied and unmanned on weekends. Telephone and audible alarms need to be installed to notify personnel.

This project would also install a voice recorded system in the dispatch room and would also renovate the exterior doors on campus to a keyless "Griz Card" system.

Impact on Existing Facilities:
Improved emergency response time will limit damage and loss of life and property and would greatly improve individual security of buildings, reduce maintenance on all building entrance locks and reduce the number of keys that need to be issued.

Number to be served by Facility: Entire Campus
Functional Space Requirements:

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

1. There are a number of partially functional life safety systems on campus that need to be centrally monitored. Some pieces of the system are in place and currently provide incomplete protection of life safety.

2. Telephone audible alarms need to be installed to notify personnel of boiler failure.

3. Voice Recorder - Currently there is no recording of police or maintenance telephone and radio dispatch traffic. Dispatchers must rely on handwritten notes or memory to cover receipt of critical emergency communications.

4. Griz Card - Currently development and implementation of the Griz Card System has not been addressed on State Buildings.

E. ALTERNATIVES CONSIDERED:

1. Do nothing and risk loss of life and facilities.
2. Partially fund the request.
3. Fully fund the request.

Rationale for Selection of Particular Alternative:

Fully funding this request would maximize Life Safety on the Missoula Campus and it would minimize property loss possibilities. Fully funding this request would also provide for the maximum accountability and is the most cost efficient method of converting exterior doors on campus to the Griz Card (card swipe system).

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	125,000
4. Construction Cost:	$	1,300,000
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	66,000
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	15,000
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	1,506,000
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	1,506,000

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

GENERAL NARRATIVE MATERIAL

ALARM MONITORING AND RECORDING SYSTEM RENOVATIONS $1,506,000

M2139 Fire Security Monitoring System, Campus Wide $938,000

There are a number of partially functional life safety systems on campus that need to be centrally monitored. Some parts are in place on campus that need to be monitored. Some parts are in place and currently provide incomplete protection. The system would allow monitoring of a centralized reporting system of all maintenance alarms through the use of a building automation system and a fiber-optic backbone.

MC1495 Boiler Alarm Monitoring System, COT Admin. Building $8,000

Currently, at the Admin. Building at the Missoula College of Technology, there is no alarm on the boiler to warn of failure during unoccupied periods. An alarm needs to be installed. When the building is unoccupied and unmanned on weekends.

M1776 Create Voice Logging System $60,000
M1778 Griz Card Automation System $500,000

VOICE RECORDER - Acquisition of a multi-channel electronic voice recorder will allow retention of all police and maintenance radio and Telephone communications. Purchase of a 32(+) channel system will allow for future expansion. The site is already capable of handling the connection to telephone and radio subsystems, as well as having emergency power backup already in place. There are only two ways to record information, handwritten or electronic voice recording. The voice recording is an upgrade to improve efficiency, protect the well being of the campus, and reduce our vulnerability to litigation. Handwritten or electronic voice recording are the only two ways to make a record of emergency telephone calls. Upgrading to a voice recording will improve efficiency, protect the well-being of campus, and reduce our vulnerability to litigation.

GRIZ CARD - The current phases of the Griz Card System did not address the cost of upgrading all the academic buildings to the swipe-card door openers. The installation of readers and controller/processors would allow after hour access to authorized individuals and improve opening and closing by eliminating manual access and security of the buildings. The project would expand with the addition of new buildings. The installation of the card readers in academic buildings would control after-hours access to the buildings, allow automatic open and close of buildings and would streamline the bulky key issue of assigning and tracking keys.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Grounds Repairs and Renovations
Project Priority: 37
Biennium: 2002-2003

Department: Montana University System
Agency/Program: Western Montana College of The University of Montana and Montana Tech of The University of Montana

A. THIS PROJECT: (Check one)

_ Is an Original Facility
__ Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
__ Class I
__ Class II
_x_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

_x_ Site on Owned Property
__ Site to be Selected
__Site Already Selected

_x_ Outside of 100-Year Flood Plain
__ Utilities Already Available
__ Access Already Available

C. DESCRIPTION OF FACILITY:
General Description:

Miscellaneous projects the scope of which can not be handled by campus personal or maintenance budgets.

Impact on Existing Facilities:

Number to be served by Facility: 1500

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Failure of pumps, pipe and limits. Costs for constant repairs are greater each year.

The tennis court surfaces have deteriorated to the point where it is becoming unsafe to use them. They need to be resurfaced.

Automated underground sprinkler systems provide the most cost effective and environmentally friendly solution to lawn irrigation. These projects will provide for new systems and or repair/replace existing systems.

E. ALTERNATIVES CONSIDERED:

1. Let the facilities continue to deteriorate.
2. Partially fund the project.
3. Fund all the work scheduled for this biennium.

Rationale for Selection of Particular Alternative:

The best long-term solution is to complete funding at this time, since it offers the highest ratio of benefit to cost.

F. ESTIMATED COST OF PROJECT:

Source of Estimate:

1. Land Acquisition:	$	0
2. Site Investigation:	$	
3. Consultant Services:	$	
4. Construction Cost:	$	10,000
5. Site Development:	$	132,500
6. Utilities:	$	
7. Telecomm. Systems:	$	
8. Furnishings - Equipment:	$	
9. Contingencies:	$	
10. A/E Supervisory Fee:	$	10,000
11. Construction Mgmt.:	$	
12. Commissioning:	$	
13. Construction Testing:	$	
14. Percent for the Arts:	$	
15. Other:	$	
TOTAL COST	$	152,500
Less Other Funds Available		
Source:_____	$	
_____	$	
Long-Range Building Fund:	$	152,500

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

GENERAL NARRATIVE MATERIAL

GROUNDS REPAIRS AND RENOVATIONS $152,500

B2235 Lawn/Landscaping Sprinkler Systems - Campus $57,000

Automated underground sprinkler systems provide the most cost effective and environmentally friendly solution to lawn irrigation. These projects will provide for new systems and or repair/replace existing systems.

B2236 Security Fencing $21,000

Various areas on campus need to be protected by security fencing for public safety. These fences have deteriorated and need repair/replacement.

B2237 Repair Tennis Courts $26,000

The tennis court surfaces have deteriorated to the point where it is becoming unsafe to use them. They need to be resurfaced.

D2297 Replace Irrigation Pumps & Pipe $48,500

Pumps, pipe and power supply at the 60 year-old irrigation structure require replacement. 1940's steel tube is leaking, only one pump remains usable and requires more and more time to nurse through each days operation. Above ground pipe is almost beyond repair and requires more labor to maintain and move around campus each year.

CAPITAL PROJECT REQUEST

Project Title: New Construction Planning - All Campuses
Project Priority: 38
Biennium: 2002-2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
x Improves an Existing Facility
_ Replaces an Existing Facility

Major Maintenance Class:
_ Class I
_ Class II
_ Class III

B. LOCATION: All Campuses
(Check where appropriate)

x Site on Owned Property
_ Site to be Selected
_ Site Already Selected

x Outside of 100-Year Flood Plain
x Utilities Already Available
x Access Already Available

C. DESCRIPTION OF FACILITY:
General Description:

This request is intended to provide for planning and schematics for various new construction projects on the campuses at The University of Montana.

Impact on Existing Facilities:

This request is for planning only and has no impact on existing facilities.

Number to be served by Facility: Entire University Community

Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

Planning is the first and most critical element in defining a project's criteria. Planning establishes programming requirements and identifies design problems and possible solutions. After a preliminary design is developed, project costs are estimated.

E. ALTERNATIVES CONSIDERED:

1. Do not request planning funds and request renovations with less than accurate costs.
2. Fund request and develop accurate schematics.

Rationale for Selection of Particular Alternative:

Good planing reduces the likelihood of errors and provides better cost estimates on which to base renovation decisions.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	0
3. Consultant Services:	$	943,900
4. Construction Cost:	$	0
5. Site Development:	$	0
6. Utilities:	$	0
7. Telecomm. Systems:	$	0
8. Furnishings - Equipment:	$	0
9. Contingencies:	$	0
10. A/E Supervisory Fee:	$	0
11. Construction Mgmt.:	$	0
12. Commissioning:	$	0
13. Construction Testing:	$	0
14. Percent for the Arts:	$	0
15. Other:	$	0
TOTAL COST	$	943,900
Less Other Funds Available		
Source: N/A	$	0
_____	$	
Long-Range Building Fund:	$	943,900

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 0 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

2. SECOND BIENNIUM (2004-2005)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

3. THIRD BIENNIUM (2006-2007)

Personnel Services	$	n/a
Operating Expenses	$	n/a
Maintenance Expenses	$	n/a

GENERAL NARRATIVE MATERIAL

NEW CONSTRUCTION PLANNING $943,900

These projects generally described here after, all are requests for planning funds for programming, schematics and estimates so that future new construction requests can have the benefit of the most accurate estimates, programming and operation and maintenance costs considerations as possible. Some of these projects will later be requested for authority only spending and the planning documents and brochures would be used in fund raising.

M2415 New Construction Native American Studies Bldg (10,000 gsf, $3.5M). $35,000
Currently, the Native American Studies program does not have the appropriate classrooms and labs for our program. The area utilized has been remodeled from a former residence. Both the classroom and lab areas are too small to appropriately handle the annual enrollments. The proposed new facility would allow us to provide the instructional and administrative space necessary to house this program. The 56th Legislature granted spending authority totaling $3,500,000 from funds to be raised from Federal, private donations, grants and other non-State funds. This request for planning funding is made to further define the construction project and provide brochures for fund raising.

B2263 New Construction - MBMG Building (38,000 gsf, $.72M) $72,000
This project requests planning funds to develop schematic level planning documents for a new Montana Bureau of Mines and Geology (MBMG). It is expected that the facility would be between (38,000 to 44,000 gsf). The Bureau is currently located in main hall on the Montana Tech campus. The building is 102 years old and can no longer provide for the safe and efficient operation of the Bureau and has no possibility of accommodating the expansion of programs.

D2315 Renovation - Main Hall Remodel (Phase I) (50,398 gsf, $3.1M) $62,000
Main Hall the original structure on the Dillon Campus, is still used as a major classroom facility. This building is in need of general remodeling and updating. This project would include updating mechanical, electrical and plumbing systems and general remodeling work to enhance the existing character and improve the educational potential of the building. Project priority No. 12 of this request is requesting funding for Phase I construction. This planning request is made in the event that the Legislature does not fund this project this biennium. The additional time and funding would be used to further refine and describe the renovation needs of the facility. The building is listed on the National Historic Register.

M2424 New Construction - Law Addition (24,000 gsf new, $7M) $70,000
This project seeks to solve the current adaptive and deferred maintenance problems along with addressing the space issues associated with present and projected programmatic growth. Current planning includes renovation of the existing structure and construction approximately 24,000 gsf of new space.

B2264 Renovation - Petroleum Building (22,000 gsf, $4.8M) $48,000
The Petroleum Building is a three story, 22,000 G.S.F. building, with brick veneer and was constructed in 1953 (45 years old). It is structurally sound with no sign of subsidence. This project is for the total building renovation including all building systems. It would also include repair of the building envelope and installation of new energy efficient windows. It would bring the building into compliance with all building codes including ADA. Priority No. 11 of this LRBP request is for $4,850,000 to renovate this facility. This request is made in the event that the Legislature can not fund the request at this time. The additional time and planning funds would allow The University of Montana to further refine the programmatic needs, cost estimates and operational costs aspects of this project.

D2491 Renovation - Industrial Technology/Pool (3,900 gsf, $.35M) 3,500
Currently, classroom space is at a premium on The Western Montana College campus. It is becoming extremely difficult to schedule classes with the space available at present. This renovation would help create additional classroom space and help alleviate current space problems and allow for future enrollment increases. This 3,900 sq. ft., 52'x 75' space will provide four classrooms.

MC170 Relocate College of Technology (100,000 gsf new, $12M) $120,000
This planning project would describe to the schematic level, a new facility of approximately 100,000 s.f. which would relocate the Missoula College of Technology campus to a single location which would allow for consolidation of programs and expansion of programs.

B2265 Main Hall Renovation (38,000 gsf, $8.2M) $82,500
This building is the oldest on the Montana Tech Campus and has been declared eligible for the National Register. It is occupied primarily by the Montana Bureau of Mines and Geology. It also contains several academic offices and four large classrooms. Approximately 3,000 people visit the Bureau every year. This historic building is the essence of Montana Tech for many people. The interior has incurred numerous, inefficient minor remodels and many of these remodels are now unsightly and inappropriate. The restrooms are terribly outdated. The heating system, does not meet present building code requirements. This project would complete Phase I of a three phase renovation. This renovation will be necessary when the MBMG vacates the building to occupy its new facility which is requested in Priority No. 16 of this LRBP reqeust.

M1061 New Construction - School of Education Addition (27,770 gsf, $6M) $60,000
The School of Education on the Missoula campus has identified a need to address the clinical nature, the technological and the pedagogical short comings of the current facilities which comprise the School of Education. Currently, the School has seven different locations on campus and they have identified a need for additional space for classrooms, educational research labs and clinical spaces. A new facility connected to the existing School of Education Buildings would solve the space and organizational needs of the school.

B2266 Engineering Hall Renovation (15,500 gsf., $2.6M) $26,000
Built in 1923, Engineering hall is one of the campus's oldest and unique facilities. It was originally the college's gymnasium. In the 1930's an addition was built and the building was converted into classrooms and faculty offices. With the exception of some minor remodeling and upgrades, new windows and roof, the building is essentially in its original configuration. No major improvements have been made to the electrical, plumbing and heating systems (steam radiator heat). The rest rooms are unisex, very small and do not conform to ADA requirements. All building systems are in a constant state of breakdown and are in danger of complete failure. Lighting and acoustics are poor. The building systems will no longer support a comfortable, modern day teaching/learning environment. An elevator is also required for ADA compliance.

M1188 New Construction Broadcast Media Addition (33,000 gsf, $5M) $50,000
The University of Montana Broadcast Media Center has experienced phenomenal growth in facilities, personnel, and external funding to the point they simply don't have the space to grow anymore. The Center's success in generating outside funding for equipment and operations, including a $2.5 million Public T.V. project, have outstripped our ability to house such activity, especially since most funding agencies do not fund buildings. In addition, academic support use has placed increasing demands for service and currently we have staff located in three separate buildings around campus. This project preliminarily estimates a need for an additional 33,000 gsf of space to the Telecommunications Center in the P.A.R.T.V. Building in the form of studios, technical space, offices and meeting rooms.

B2492 New Construction MTCT Maintenance Storage Facility (3,000 gsf, $.29M) $2,900
This project consists of constructing a storage facility (3,000 to 5,000 gsf) to store various maintenance equipment such as mowers, sweepers and other operation and maintenance equipment. Additionally, the facility would be used to store various COT lab equipment to large to store in the labs. Currently, this equipment is stored outside in a fenced area under tarps.

New Construction and Renovation - Math Building (13,500 gsf new, $4.1M) $41,000

The requested additional and renovation to the Math Building on the Missoula campus would address the problems of communication between the faculty and the students by creating a single facility to house all of the activities in one place and providing additional space for seminar rooms, classrooms and tutorial spaces. Additionally, this new facility would solve the inaccessibility problem with this department which is a core curriculum in most other disciplines.

M2422 Renovation University Hall Remodel (32,843 gsf, $5.1M) $51,000

Main Hall, the original structure on the University of Montana - Missoula campus is in need of general remodeling and updating. This project would include updating mechanical, electrical and plumbing systems and general remodeling work to enhance the existing character and improve the educational potential of the building. The building is listed on the National Historic Register.

M2410 Renovation - Rankin Hall (16,500 gsf, $2.8M) $28,000

Rankin Hall, located on the Missoula Campus is 89 years old. The interiors are not code compliant and have had several renovations over the years as the hall has changed functions. The result is a non-code compliant structure which minimally meets the current program.

M173 Renovate Fine Arts Building (2,000 gsf new, $2.2M) $22,000

The Art Department is currently facing a serious shortage of classrooms and graduate studio space. We currently have a record undergraduate and graduate major enrollment which is more than doubled. In the past six years, Arts 123 & 124 are prerequisites for all studio courses and are very popular Perspective I general education courses. With a growing demand for these courses, the Art Department needs to develop classroom ad studio space for the additional sections we need to offer. With the current growth and growing national and international interest in our graduate program, we will need to provide additional studio space to attract the highest quality students and maintain the quality of our program. All of the rooms in the Fine Arts building are in need of repair, and in many cases major renovation in order to adequately accommodate student and faculty needs.

Currently the Sculpture Studio is in serious need of additional classroom space, storage for raw materials, storage for works in progress and space for finished works. With increased enrollment and students wishing to address works of greater scope and scales, the Sculpture Studio is quickly becoming an inadequate, and a dangerous place to work. The addition of a 2,000 square foot classroom at the west wall of the Sculpture Studio would provide a safe work area for students, while opening up existing space for storage of raw materials and students works.

M2393 New Construction Chemistry Bldg. Addition (66,000 gsf new, $10M) $100,000

The current Chemistry/Pharmacy Building on The University of Montana - Missoula campus was built 61 years ago for the Chemistry Program. There have been enormous advances in technology during this period and the facility has not grown accordingly. This project addresses these needs thru an addition and renovation of various critical labs.

M2480 Mansfield Library Expansion (IMS to Library) (35,000 gsf, $.70M) $70,000

Currently the Instructional Media Services Department of the Library is housed in the Social Science Building. This space is not suitable for storing the various types of media (film, video, audio, tapes, etc.) that IMS archives. They have outgrown the space in this facility and need additional space in close proximity to the Library to properly serve the campus needs. The proposed addition (35,000 gsf) to the Library will consolidate these two functions which is critical to their mission.

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST

Project Title: Spending Authority
Project Priority: N/A
Biennium: 2002 - 2003

Department: Montana University System
Agency/Program: The University of Montana - All Campuses

A. THIS PROJECT: (Check one)

_ Is an Original Facility
_ Improves an Existing Facility
x Other (Spending Authority)
_ Major Maintenance Class
_ Replaces an Existing Facility

B. LOCATION: All Campuses
(Check where appropriate)

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

C. DESCRIPTION OF FACILITY:
General Description:

These are requests for spending authority to be granted to The University of Montana to construct and administer the projects listed in the General Narrative of this request.

Impact on Existing Facilities:

These projects will enhance and upgrade campus facilities.

Number to be served by Facility: N/A
Functional Space Requirements: N/A

D. EXPLANATION OF THE PROBLEM BEING ADDRESSED:

All of the projects in this request are projects exceeding $150,000 of construction and are needed by the University to address programmatic needs, which in large part cannot be funded by the State. The University is pursuing gifts, grants, in-kind donations, and identification of local funds to fund these projects and will require State spending authority to accept and/or spend.

E. ALTERNATIVES CONSIDERED:

1. Defer the requested renovations/construction until the State funds the project.
2. Grant The University of Montana spending authority.

Rationale for Selection of Particular Alternative:

Granting of spending authority would allow projects with funding to proceed, and the remaining projects could progress to the private funding acquisition phase of the projects.

CAPITAL PROJECT REQUEST

F. ESTIMATED COST OF PROJECT:

Source of Estimate: The University of Montana - Missoula

1. Land Acquisition:	$	0
2. Site Investigation:	$	90,000
3. Consultant Services:	$	2,100,000
4. Construction Cost:	$	21,175,000
5. Site Development:	$	
6. Utilities:	$	250,000
7. Telecomm. Systems:	$	500,000
8. Furnishings - Equipment:	$	1,000,000
9. Contingencies:	$	1,689,750
10. A/E Supervisory Fee:	$	605,250
11. Construction Mgmt.:	$	200,000
12. Commissioning:	$	150,000
13. Construction Testing:	$	100,000
14. Percent for the Arts:	$	240,000
15. Other:	$	
TOTAL COST	$	28,100,000
Less Other Funds Available		
Source: Various None State	$	28,100,000
Services	$	
Long-Range Building Fund:	$	

G. ESTIMATED OPERATIONAL COST AT COMPLETION:

Completion Date: 2003

Number of Additional Personnel Required: 7.43 FTE

Additional Funds Required when Project is in Full Operation:

1. FIRST BIENNIUM (2002-2003)		
Personnel Services	$	0
Operating Expenses	$	0
Maintenance Expenses	$	0
2. SECOND BIENNIUM (2004-2005)		
Personnel Services	$	505,136
Operating Expenses	$	375,326
Maintenance Expenses	$	166,467
3. THIRD BIENNIUM (2006-2007)		
Personnel Services	$	533,815
Operating Expenses	$	396,637
Maintenance Expenses	$	175,928

LONG-RANGE BUILDING PROGRAM
CAPITAL PROJECT REQUEST
GENERAL NARRATIVE MATERIAL

SPENDING AUTHORITY $28,100,000

CID#	
Grant Projects, All Campuses	1,500,000
ADA Code/Deferred Maintenance	1,000,000
Fine Arts Museum Remodel/Upgrade from 2.5 M (15,000gsf) - 5M (25,000 gsf)	5,000,000
Multi Media Center - Bio Station (7,000 gsf)	1,350,000
International Center (7,000 gsf)	1,250,000
Law Building Renovation/Expansion (24,000 gsf)	5,000,000
School of Journalism Building (66,000)	12,000,000
Dornblaser Bleachers	1,000,000

Spending authority is requested from the State for the above-referenced projects to be granted to The University of Montana to construct and administer the projects. The following is additional narrative on each project:

UM1148 Grant Projects Over $150,000

This project requests blanket authority (of $1,500,000), which is renewed for the 2000-2001 biennium for renovation projects over $150,000 associated with grants. Funding sources can be Federal, State, private, or grants. No new programs would be created as a result of these renovations. Research activity would be accommodated within existing facilities

UM1222 ADA and Code/Deferred Maintenance

The University of Montana experiences the same problems of addressing ADA, Code and deferred maintenance problems as the rest of the campuses in the Montana University System and the majority of other campuses in the United States. The University has requested projects in all these categories in the Long Range Building Program Request. This spending authority request is made to allow an option for the University in addressing pressing issues which were not able to be funded by the State. Funding sources can be Federal funds, State funds, donations, private, bond funds and grants. No new program will result from any project authorized here.

M2446 Fine Arts Museum Remodel/Upgrade

This request seeks to increase the spending authority approved in the last legislative session from $2,500,000 to $5,000,000 for the Meloy Gallery expansion on the southeast corner of the Performing Arts Radio Television Center. Currently, the Meloy Gallery - a space of under 1,000 sq. ft. - is the primary exhibit area for the Museum of Fine Arts Permanent Collection of nearly 10,000 works of art. The School of Fine Arts Advisory Council and the UM Foundation board have long urged the university to create more opportunities to display this cultural treasure for its students and the citizens of the state at large. The Department of Anthropology has recently indicated interest in displaying the Native American collection that it supervises in the museum's gallery space. Given that the Permanent Collection has tripled in the last four years and has grown by another 700 works in 1999 alone, the School of Fine Arts seeks to upgrade its former request to create a more realistic addition of 25,000 square feet to the PARTV Center. This enlarged addition will provide added exhibit spaces for the Native American collection and other new acquisitions, a preparation area for exhibits, adequate climate-controlled storage space for the collection, conservation laboratory space and offices for gallery personnel.

Funding sources will be Federal and private, including individuals, corporations and foundations, and other non-State funds. Currently, $400,000 has been raised from private sources and $100,000 is sought from the Federal Government in planning monies. The 56th Legislature granted $2,500,000 in spending authority and 40% of the operation and maintenance. The School of fine Arts seeks the same percentage of support from the 57th Legislature for an upgraded gallery expansion of $5,000,000.

M2478 Multi Media Center - Bio Station

A communications center - lecture hall is considered an integral part of current and long-range plans at the Bio Station. We badly need a lecture hall to seat 150-200 people in a state-of-the-art audiovisual (Internet based) format. We routinely have standing room only for lectures and forums, because our work is so important to the fast growing Flathead region. The lecture hall function is directly linked to an immediate need for efficient internet communications including massive data transfers and real time video for conferencing and distance lecturing and research collaborations. The new facility will be the operations center for all wired and wireless communications in the actively growing research and academic programs at the Bio Station. The communications center-lecture hall will greatly enhance research capability, especially collaborations with other institutions, directly enhance academics and allow greater outreach to the public. Other space requirements in this building include a conference/meeting room, office space for professors and researchers, rooms for electronic communications hardware, restrooms and research storage space (specifically for archiving research samples). The construction site would require removal of the mammalogy and supply Buildings. Alternatively, it could be sited in the location of the two very old houses currently used for married student and staff housing. Funding for this project may be Federal, donations, grants or other non-State funds. State operation and maintenance is requested.

M2479 International Center

The purpose of this Center is to consolidate the services required by International students & scholars on the Missoula Campus into one location. As such, the Center would combine the current resources of the Office of International Programs, Foreign Student & Scholar Services, English Language Institute & the International Student Association. A total of 7,000 SF is anticipated, common facilities would include new conference rooms, study/ research rooms and a resource library. Anticipated project cost is $1,000,000. Funding for this project may be Federal, private donations, grants or other non-State funds. State operations and maintenance is requested.

M2424 Law Building Renovation/Expansion

The existing Law School has severe ADA accessibility problems that the new addition and renovations seek to resolve. The present amount of student study cubicles is limited to seniors only and more space is required for the 1st and 2nd year students. This renovation/new construction would provide additional space for Indian Law and other clinics. More teaching classrooms/ auditoriums are required as well as Faculty offices and Administrative support areas. The Library requires more shelf space and storage needs. Mechanically, this building has several older heat pump units; an old chiller that air conditions part of the existing building and PVC piping that is liable to fail soon. The School also does not have a space where students and faculty can meet informally. We want to resolve these mechanical issues also so that the building is running from campus steam and well water systems for energy efficiency. In order for this new addition, an existing older wood residence/structure will have to be demolished to make room for the new structure. All new space will be connected to existing Law Building. A total of 24,000 sq. ft. of new area is projected; 7,000 sq. ft of existing area is to be remodeled and a 2,400 sq. ft. courtyard created. Funding for this project may be Federal, private donations, grants or other non-State funds. State operations and maintenance is requested for the new space.

M2481 School of Journalism Building

Spending authority in the amount of $12 million is sought for a new journalism building to accommodate increased enrollment and to unite departments now located on opposite sides of the campus. However, the consolidation of the print and RT-V departments is as much related to the instructional mission as it is to the logistical, management problem now existing. Students earning degrees in journalism need multimedia, on-site instruction in all aspects of communication (print, television, photo, radio and the Internet) and faculty and students need daily interaction. Enrollment is increasing markedly, and indications are it will continue. Last fall, the increase, not including transfers, was 30 percent. The historic building now occupied by the print department does not provide adequate space (and part of it is occupied by another school). The converted dwelling now housing the RT-V department is scheduled for demolition as part of the law school expansion. It is estimated that to meet current needs and allow for growth, about 66,000 gsf of area will be required. This will include classrooms, design and editing labs, centralized technology, studios, production facilities, digital labs for photojournalism and new media, auditoriums and faculty and administrative offices. The funds to erect this building may be private sources, federal, grants, and other non-state funding with the request that operation and maintenance will be covered by state funds.

M2482 Replace Dornblaser Bleachers

The Dornblaser Stadium facility was constructed in the 1960's. A new football stadium was built on campus in 1986. Since that time the stadium has been used for track and field only. The bleachers had deteriorated to the point that they were no longer safe. These bleachers were removed in 1999. The primary use of the facility is collegiate track and field with occasional high school events and State meets. The project would provide four thousand new bleachers at the Dornblaser Track and Field facility. The existing bleachers had to be removed for safety reasons. The new bleachers will also provide ADA accessibility to the facility. New concessions and restroom facilities will be constructed under the new bleachers. Improvements will also include a new irrigation system for the infield, a new marshaling area, and other site improvements. Funding for this project may be Federal, private donations, grants or other non-State funds. No state operation and maintenance is requested.

THE UNIVERSITY OF MONTANA
LONG RANGE BUILDING PROGRAM SUMMARY
2004-2005 BIENNIUM

1. REPAIRS/REPLACEMENTS — $10,532,961

UM	Exterior Site	$1.857.200
UM	Utility Distribution System	22.800
UM	Power/Heating Plant	512.913
UM	Roofs	590.369
UM	Building Exterior	1.457.500
UM	Building Interior	1.707.141
UM	Mechanical Systems	1.865.338
UM	Electrical Systems	796.300
UM	Standards/Code Compliance	940.900
UM	Handicapped	20.800
UM	Hazardous Materials	275.300
UM	General Remodel	486.400

2. RENOVATIONS — $5,473,650

UM	Exterior Site	$843.300
UM	Building Exterior	718.657
UM	Building Interior	1.361.762
UM	Mechanical Systems	505.200
UM	Electrical Systems	693.000
UM	Standards/Code Compliance	97.584
UM	Handicapped	62.447
UM	General Remodel	1.191.700

3. STANDARDS/CODE COMPLIANCE — $6,348,442

UM	Mechanical Systems	174.900
UM	Standards/Code Compliance	845.389
UM	Handicapped	1.806.553
UM	Hazardous Materials	3.521.600

4. NEW CONSTRUCTION/RENOVATIONS — $41,650,000

B	2263	New Construction - MBMG Building (30.000 gsf new)	7.200.000
D	2315	Renovation Main Hall Phase II (50.398 gsf)	3.100,000
B	2264	Renovate Petroleum Building (22.000 gsf)	4.800.000
D	2491	Renovate Industrial Technology/Pool (3.900 gsf)	350.000
M	170	New Construction Relocate MCOT (100.000 gsf new)	12.000.000
B	2265	Renovate Main Hall (38.000 gsf)	8.200.000
M	1061	New Construction Addition School of Education (27.770 gsf - new)	6.000.000

5. LAND & PROPERTY ACQUISITION — $2,000,000

M	1046	Retire Mortgage Bonds on Rental Houses and Demolish	2.000.000

THE UNIVERSITY OF MONTANA
LONG RANGE BUILDING PROGRAM SUMMARY
2006-2007 BIENNIUM

1. REPAIRS/REPLACEMENTS — $7,412,019

UM	Exterior Site	654.900
UM	Utility Distribution System	3.400
UM	Power/Heating Plant	22.819
UM	Roofs	4.400
UM	Building Exterior	1.277.900
UM	Building Interior	1.609.900
UM	Mechanical Systems	2.338.800
UM	Electrical Systems	1.285.200
UM	Standards/Code Compliance	200.200
UM	Hazardous Materials	14.500

2. RENOVATIONS — $1,534,657

UM	Exterior Site	74.168
UM	Building Interior	221.389
UM	Mechanical Systems	1.239.100

3. STANDARDS/CODE COMPLIANCE — $4,131,102

UM	Mechanical Systems	1.200
UM	Electrical Systems	2.751.800
UM	Standards/Code Compliance	260.702
UM	Handicapped	889.200
UM	General Remodel	228.200

4. NEW CONSTRUCTION/RENOVATIONS — $39,100,000

B	2266	Renovate Engineering Hall (15.500 gsf)	$2.600.000
M	1188	New Construction - Broadcast Media Addition (33.000 gsf - new)	5.000.000
B	2492	New Construction - MTCT Storage Facility (3.000 gsf - new)	300.000
M	2394	Renovate Math Building (13.500 gsf - new)	4.100.000
M	2422	Renovate Main Hall (32.843 gsf)	5.100.000
M	2410	Renovate Rankin Hall (16.500 gsf)	2.800.000
M	173	Renovate Fine Arts (2.000 gsf - new)	2.200.000
M	2393	New Construction Chemistry Building (66.000 gsf - new)	10.000.000
M	2480	Mansfield Library Expansion - IMS to Library (35.000 gsf - new)	7.000.000

6. MAJOR RENOVATIONS/CONSTRUCTION PLANNING — $20,000

M	1224	Planning for Renovations of blocks 25 & 36 into campus entrance	$20.000

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03/21/00

AUTHORIZED SPENDING AUTHORITY AND OPERATIONAL COST DETERMINATIONS
(AUTHORIZATION HISTORY)

Location	Regents Recomm. Cost	Legislative Funding/ Authorization		O&M Assignment % of Research Private	O&M Assignment % of Current Unrestricted (HB2)	Legislation/ Regents Approval
56th Legislative Session (2000-2001)						
Capital Projects						
Heating Plant/Steam Distribution Repair/Upgrade	MTUM	$859,900	$120,000 LRBP	N/A	N/A	HB5
			$530,000 Aux.	N/A	N/A	
Repair/Replace Heating Plant Utility Tunnels	WMCUM	$942,500	$800,000 LRBP	N/A	N/A	HB5
			$400,000 Aux.	N/A	N/A	
Boiler Controls 1,2 and 3	UM - Missoula	$225,000	$125,000 * LRBP	N/A	N/A	HB5
			$100,000 Aux.	N/A	N/A	
Repair/Replacement - Interior - Labs and Classrooms	UM - All	$6,000,000	$2,000,000 * LRBP	N/A	N/A	HB14
Boiler #3 Upgrade	UM - Missoula	$1,220,000	None	N/A	N/A	
Life Safety/Code Compliance/Disability Access	MUS - All	$15,000,000				
Sprinkler System Mansfield Library			$657,000 * LRBP	N/A	N/A	HB5
Ventilate and Update Fine Arts			$450,000 * LRBP	N/A	N/A	HB5
Roof Repair/Replacement	MUS - All	$3,000,000				
- Roof Replacement, COT Butte			$360,000 LRBP	N/A	N/A	HB5
- Roof Replacement, heating Plant UM - Tech			$18,000 LRBP	N/A	N/A	HB5
- Repair Clay Tile, Main Hall, UM-Tech			$30,000 LRBP	N/A	N/A	HB5
New Construction Rural Technology Center	WMCUM	$6,000,000	$4,170,000 LRBP	N/A	N/A	HB14
Repair/Replace HVAC - Mining Geology Building	MTUM	$642,200	None	N/A	N/A	
Replair/Replace Envelope	UM - All	$608,500				
- Exterior Repairs - Mail Hall, Dillon			$225,000 LRBP	N/A	N/A	HB5
HVAC Repair/Replacement - Mansfield Library	UM - Missoula	$695,600	None	N/A	N/A	
New Construction Planning (Helena COT Building)	UM - All	334,750	None	N/A	N/A	
Authority Only Projects						
ADA and Code/Deferred Maintenance	UM - All		None			
Addition to Paxson Gallery	UM - Missoula	$2,500,000	$2,500,000	60%	40%	HB5
Construct Nondenom. Chapel	MTUM	$1,500,000	$1,500,000	100%	0%	HB5
Forestry/Journalism Addition,	UM - Missoula	$10,000,000	$10,000,000	70%	30%	HB5
Native American Study Center	UM - Missoula	$3,500,000	$3,500,000	0%	100%	HB5
Life Sciences Building	UM - Missoula	$23,000,000	$23,000,000	76%	24%	HB5
Rural Technology Center	*UM - Dillon*	*$350,000*	*$350,000*		100%	HB5

AUTHORIZED SPENDING AUTHORITY AND OPERATIONAL COST DETERMINATIONS
(AUTHORIZATION HISTORY)

	Location	Regents Recomm. Cost	Legislative Funding/ Authorization		O&M Assignment % of Research Private	O&M Assignment % of Current Unrestricted (HB2)	Legislation/ Regents Approval
55th Legislative Session (1998-1999)							
Capital Projects							
Code Compliance/Disability Access	MUS	$2,900,000	$1,450,000 *	LRBP	N/A	N/A	HB5
Repair/Replacement - Roofs		$224,000					HB5
Replace Roof, Science & Engineering Bldg.	MTUM		$55,000	LRBP	N/A	N/A	
Replace Roof, Library Administration	WMCUM		$90,000	LRBP	N/A	N/A	
Replace Roof, Boiler Plant & Storage	WMCUM		$26,000	LRBP	N/A	N/A	
Replace Roof, Petroleum Building	MTUM		$28,000	LRBP	N/A	N/A	
Replace Roof, Museum Building, Flat Portion	MTUM		$25,000	LRBP	N/A	N/A	
Repair/Replacement, Mechanical Systems - Sci. Cmplx, HVAC	UM - Missoula	$1,200,000	$1,200,000 *	LRBP	N/A	**	HB5
Repair/Replacement - Boiler Plant & Utility Dist.	WMCUM	$1,117,000	$1,117,000	LRBP	N/A	N/A	HB5
Construct Rural Technology Center - Planning	WMCUM	$75,000	$75,000	LRBP	N/A	N/A	HB5
Chemistry Building Renovation	MTUM	$750,000	$750,000	LRBP	N/A	N/A	HB5
Spending Authority							
Student Building Fee Projects over $50,000	UM - Missoula	$1,000,000	$1,000,000	Other	N/A	N/A	HB5
Grant Projects	UM - Missoula	$1,500,000	$1,500,000	Other	N/A	N/A	HB5
ADA Projects	UM - Missoula	$750,000	$750,000	Other	N/A	N/A	HB5
Construction The University of Montana Plaza	UM - Missoula	$500,000	$500,000	Other	N/A	N/A	HB5
Relocation of Academic & Other Programs, Mill Bldg Remodel	UM - Missoula	$300,000	$300,000	Other	N/A	N/A	HB5
Renovate Mail Hall Auditorium, Private	WMCUM	$1,250,000	$1,250,000	Other	N/A	N/A	HB5
54th Legislative Session (1996-1997)							
Capital Projects							
Roof Replacements	MUS	$714,700					
Roof Cover for Welding Gas Storage	BCT		$24,000	LRBP	N/A	N/A	HB5
Replace Roof, McGill Hall	UM - Missoula		$99,000 *	LRBP	N/A	N/A	HB5
Replace Roof, North Corbin Hall	UM - Missoula		$33,000 *	LRBP	N/A	N/A	HB5
Replace Roof, Administration Building	UM - MCOT		$232,000 *	LRBP	N/A	N/A	HB5

** An Addition of $17,910 per year program modification was authorized by the 55th Legislature

	Location	Regents Recomm. Cost	Legislative Funding/ Authorization		O&M Assignment % of Research Private	O&M Assignment % of Current Unrestricted (HB2)	Legislation/ Regents Approval
54th Legislative Session (1996-1997) - Continued							
Capital Projects							
Life Safety Code Compliance	MUS	$500,000					
Replace Fire alarm System, Science Complex	UM - Missoula		$39,748 *	LRBP	N/A	N/A	HB5
Install Fire Alarm System, Physical Plant	UM - Missoula		$25,000 *	LRBP	N/A	N/A	HB5
Install Smoke Detectors, Botany Annex	UM - Missoula		$10,000 *	LRBP	N/A	N/A	HB5
Install Fire Alarm System 724 Eddy	UM - Missoula		$20,000 *	LRBP	N/A	N/A	HB5
Install Fire Alarm System, Guidance and Counseling	UM - Missoula		$25,000 *	LRBP	N/A	N/A	HB5
Install fire Alarm System, native American Studies	UM - Missoula		$25,000 *	LRBP	N/A	N/A	HB5
Install Fire Alarm System, Radio/TV	UM - Missoula		$30,000 *	LRBP	N/A	N/A	HB5
Upgrade Fire Alarm System, Univeristy Hall	UM - Missoula		$50,000 *	LRBP	N/A	N/A	HB5
ADA Access Modifications	MUS	$300,000					
Renovation, Disability Acces, Phase I	HCT		$50,000	LRBP	N/A	N/A	HB5
Roof Cover for Welding Gas Storage	BDT		$24,000	LRBP	N/A	N/A	HB5
Renovations, Disability Access	MCT		$27,600	LRBP	N/A	N/A	HB5
Install chair Lift to LA-011	UM-Missoula		$35,000	LRBP	N/A	N/A	HB5
Botany Labs Redesign and Access	UM - Missoula		$120,000 *	LRBP	N/A	N/A	HB5
Remodel Rest Rooms, Business Admin.	UM - Missoula		$30,000 *	LRBP	N/A	N/A	HB5
Renovate Rest Rooms, Health Science	UM - Missoula		$13,400 *	LRBP	N/A	N/A	HB5
Pharmacy/Psych. Building Addition	UM-Missoula	$2,000,000	$2,000,000 *	Bond	12%	88%	HB15
	UM-Missoula	$8,400,000	$8,400,000	Other			HB5
Chemistry Building Renovation - MT Tech	MTUM	$4,536,000	$4,536,000	Bond	N/A	N/A	HB15
		$1,509,000	$1,509,000	Other	N/A	N/A	HB5
Museum Elevator, MT. Tech	MTUM	$350,000	$350,000	LRBP	N/A	N/A	HB5
Repair Old Main Steam Traps - WMC	WMCUM	$55,000	$55,000	LRBP	N/A	N/A	HB5
Authority Only							
Student Building Fee Projects	UM-Missoula	$400,000	$400,000	Other	N/A	N/A	HB5
Grant Projects	UM-Missoula	$500,000	$500,000	Other	N/A	N/A	HB5
Relocation of Human Resources to Building 32	UM-Missoula	$150,000	$150,000	Other	N/A	N/A	HB5
Relocation of Print Shop	UM-Missoula	$300,000	$300,000	Other	N/A	N/A	HB5

AUTHORIZED SPENDING AUTHORITY AND OPERATIONAL COST DETERMINATIONS
(AUTHORIZATION HISTORY)

	Location	Regents Recomm. Cost	Legislative Funding/ Authorization		O&M Assignment % of Research Private	O&M Assignment % of Current Unrestricted (HB2)	Legislation/ Regents Approval
53th Legislative Session (1994-1995)							
Capital Projects							
Replace/Improve Roofs	MUS	$666,564					
Replace Roof Building 32	UM-Missoula		157,000	* LRBP	N/A	N/A	HB5
Replce Roof, Elrod Hall, Yellow Bay	UM-Missoula		115,000	LRBP	N/A	N/A	HB5
Install Elevator Liberal Arts Bldg.	UM-Missoula	$280,000	$280,000	* LRBP	N/A	N/A	
Authority Only							
Renovate Law School Library Basement	UM-Missoula	$1,000,000	$1,000,000	Other	N/A	N/A	
Construct Motor Pool Building	UM-Missoula	$300,000	$300,000	Other	N/A	N/A	
52th Legislative Session (1992-1993)							
Capital Projects							
Fire Alarm System, Campus Wide	UM - Missoula	$70,000	$70,000	* LRBP	N/A	N/A	HB5
Roof Replacement, Schreiber Gym	UM - Missoula	$208,000	$208,000	* LRBP	N/A	N/A	HB5
Roof Replacement, Botany	UM - Missoula	$72,000	$72,000	* LRBP	N/A	N/A	HB5
Replace Water Lines	UM - Missoula	$70,000	$70,000	* LRBP	N/A	N/A	HB5
Install Elevator, Business Administration	UM - Missoula	$204,000	$204,000	* LRBP	N/A	N/A	HB5
Improve Sidewalks & Fire Access	UM - Missoula	$63,000	$63,000	* LRBP	N/A	N/A	HB5
Planning - Chemistry/Pharmacy	UM - Missoula	$50,000	$50,000	* LRBP	N/A	N/A	HB5
Business Administration Building	UM - Missoula						
Cash Program (Preliminary Design)		$604,705	$604,705	* LRBP	N/A	N/A	HB5
Bonded Debt		$12,588,395	$12,588,395	* Bond	N/A	N/A	HB5
Cash Donations		$2,322,900	$2,322,900	Other	N/A	N/A	HB5
Authority Only							
Renovation of Fossil Storage Room 320, Sci. Complex	UM - Missoula	$100,000	$100,000	Other	N/A	N/A	HB5
Renovation of Washington - Grizz Stadium, Locker	UM - Missoula	$500,000	$500,000	Other	N/A	N/A	HB5
Renovaiton of Centennial Oval	UM - Missoula	$1,000,000	$1,000,000	Other	N/A	N/A	HB5
Student Building Fee Projects over $25,000	UM - Missoula	$175,000	$175,000	Other	N/A	N/A	HB5
Replace Underground Storage Tanks	UM - Missoula	$180,600	$180,600	Other	N/A	N/A	HB5
Construct Backup Steam Line,University Center	UM - Missoula	$100,000	$100,000	Other	N/A	N/A	HB5
Renovate Boilers to Alteternate Fuel	UM - Missoula	$229,000	$229,000	Other	N/A	N/A	HB5
Renovate Tennis Courts	UM - Missoula	$300,000	$300,000	Other	N/A	N/A	HB5
Plan Life Sciences Consolidation	UM - Missoula	$200,000	$200,000	Other	N/A	N/A	HB5
Life Sciences Building	UM - Missoula	$12,000,000	$12,000,000	Other	N/A	N/A	HB5

AUTHORIZED SPENDING AUTHORITY AND OPERATIONAL COST DETERMINATIONS
(AUTHORIZATION HISTORY)

	Location	Regents Recomm. Cost	Legislative Funding/ Authorization	O&M Assignment % of Research Private	O&M Assignment % of Current Unrestricted (HB2)	Legislation/ Regents Approval
51st Legislative Session (1990-1991)						
Capital Projects						
Major Maintenance, Water Mains, University of Montana	UM-Missoula	$130,000	$130,000 * LRBP	N/A	N/A	HB777
Mansfield Library Roof Replacement	UM-Missoula	$257,730	$257,730 * LRBP	N/A	N/A	HB777
Authority Only						
Univeristy of Montana Building Fees	UM-Missoula	$217,039	$217,039	N/A	N/A	HB777
			$23,388,978 *			

*The University of Montana - Missoula