



UNIVERSITY
of ALASKA
—
Many Traditions One Alaska

Proposed

FY24 Capital Budget and
10-Year Capital Improvement Plan

Board of Regents
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**University of Alaska
Proposed FY24 Capital Budget Request and
10-Year Capital Improvement Plan
Introduction**

Presented within are the proposed FY24 Capital Budget Request and the 10-Year Capital Improvement Plan. The goal of the Board of Regents' University of Alaska FY24-FY33 Capital Improvement Plan (CIP) is to guide decision-making that ensures the necessary facilities, equipment and infrastructure are in place to:

- achieve the board's short-, mid-, and long-term goals
- support the academic and research directions of the university system
- support a continuous improvement philosophy
- bring awareness to the associated future annual operating costs that may be incurred

The capital budget presents the top priority projects for FY24 and the short-, mid-, and long-term capital investment priorities consistent with university campus master plans. Priority new construction projects, that have already received some approval, are included in the 10-year capital improvement plan for consideration in future capital budget requests.

The proposed FY24 Capital Budget includes:

- \$72.3 million for Deferred Maintenance (DM)/ Renewal and Repurposing (R&R)
- \$32 million (state and non-state funding) for Facilities Modernization

Deferred Maintenance (DM)/ Renewal and Repurposing (R&R)

UA is responsible for maintaining facilities and infrastructure across the state, with nearly 400 facilities totaling 7.9 million gross square feet, an average age of 35.2 years, an inflation-adjusted value of \$4.9 billion, and a deferred maintenance/renewal & repurposing (DM/R&R) backlog of over \$1.5 billion. Annual funding is necessary to preserve these important state assets.

Facilities Modernization

UA continues to look for ways to make the best use of existing space. Several facilities, in need of complete modernization, have been included for consideration in the FY24 capital budget.

- At UAA the Sally Monserud Hall will be completely renovated to support the College of Health programs and the Consortium Library will be renovated to create a modern archive for the Alaska Leaders documents.
- At UAF the Lola Tilly facility be modernized to create a more welcoming, centralized area for student and public-facing functions and the University Park facility will be renovated to support the Early Childhood Development Center.
- At UAS laboratory programs in the Natural Science Research Lab building will be relocated to the Anderson Building on campus and next to the new Auke Bay Natural Science Building. This will bring all of our Natural Sciences students, faculty and staff into one area for better continuity, economy and synergy.

The UA system is prepared to continue supporting Alaska's strategic position for future economic activity through research and workforce development with the following initiatives:

- \$20.0 million UA Drone Program Year 2 of 5
- \$13.0 million Alaska Food Security & Independence Phase 1 of 2

UA Drone Program Year 2

The University of Alaska conducts many of the testing operations needed to support the full integration of drones with traditional aircraft in U.S. airspace and develop the workforce needed to support this emerging industry in Alaska. Drones, a.k.a. Unmanned Aircraft Systems (UAS), stand on the precipice of transforming the methods by which remote infrastructure monitoring with the oil and gas industry, medical supply and cargo delivery to aviation-dependent communities, mapping and surveying, wildlife monitoring and protection, and an ever-growing list of new drone applications of import to Alaskans occur. Drones have the potential to conduct these missions more safely and economically than can be done at present and improve the quality of life for people living across Alaska, especially in rural communities. Both developing UAS technologies and conducting UAS operations have the potential to be economic drivers across Alaska. Additionally, international drone air cargo flights utilizing drone cargo hubs in Alaska, such as the Fairbanks International Airport, have the potential to greatly increase Alaska's international standing as a leading cargo gateway and provide emerging economic opportunities for Alaska. Alaska possesses the perfect environment for testing the technologies, policies, and procedures needed to conduct real-world drone cargo operations with minimal risk to people on the ground and other aircraft. Emerging technologies and supporting educational programs take time to develop. This is year 2 of a 5 year plan.

Alaska Food Security & Independence – Phase 1

Alaska agricultural research will become more agile as the state faces increasing food security demands and the need for industrial growth and expansion to help all Alaskans live better lives. Investment in agricultural research by the state will open more opportunities for diversified research production, meet federal capacity grant funding needs, and become a viable place for collaborative agricultural research with other states and nations. A strategic investment from the State of Alaska will facilitate a faster, nimbler, and impactful response to the future of food production in Alaska.

UAF is the land-grant institution in Alaska. The mission of land-grant institutions is to create relevant research that guides education and outreach to improve the lives of all Alaskans. Given the current food security interest in Alaska, UAF is the natural go-to with agricultural research questions but lacks sufficient expertise or human capital to support potential expansion of the agricultural industry in Alaska. Strategic investments in faculty, technicians, and support staff will allow UAF to provide workforce development to the agricultural industry to serve the future food security needs of Alaska. Increasing capacity would require an ongoing \$8 million base adjustment that will also allow UAF to meet required federal match.

As UAF continues to recruit new agricultural researchers with strong agricultural backgrounds, it is imperative to be able to show the availability of modern equipment to use for field research. This research must be applicable to Alaska producers and we need the correct scale to implement the research. Currently, the field research equipment is old, rusty, and unreliable and that is not an encouraging sign of support for a new researcher wanting to start a research program. New equipment is an essential element to growth in this area. This would be a one-time \$5 million investment, coupled with the needed faculty/researcher operational support.

This \$13 million initial investment is phase 1 of a multi-phased approach. Phase 2 would include a \$30 million one-time investment addressing facility needs and \$2 million ongoing base increase to raise Alaska's food security interests to the next level and promote integrated workforce development through internships, industry partnerships, and agency collaboration.

University of Alaska
Proposed FY24 Capital Budget Summary
(in thousands of \$)

	Unrestricted Funds (UGF)	Designated, General Federal and Other Funds	Total Funds
Facilities Deferred Maintenance (DM)/Renewal & Repurposing (R&R)			
UA requests \$72.3 million in FY24 for deferred maintenance/renewal & repurposing as follows:	72,300.0	72,300.0	
<i>UAA Anchorage Campus</i>			
<i>UAA Community Campuses (Soldotna, Kodiak, Palmer & Valdez)</i>	20,200.0	20,200.0	
<i>UAF Fairbanks Campus and Community & Technical College (CTC)</i>	6,700.0	6,700.0	
<i>UAF Community Campuses (Dillingham, Kotzebue, Bethel, & Nome)</i>	34,500.0	34,500.0	
<i>UAS Juneau & Community Campuses (Ketchikan & Sitka)</i>	4,000.0	4,000.0	
<i>UA System Office</i>	6,500.0	6,500.0	
<i>UA System Office</i>	400.0	400.0	
Facilities Modernization			
<i>UAA Health Workforce Diversity Expansion Project Phase 2 (WWAMI)</i>	21,200.0	10,750.0	31,950.0
<i>UAA Health Workforce Diversity Expansion Project Phase 2 (COH Programs) & Library Learning Commons</i>	2,000.0	2,250.0	2,000.0
<i>UAF Lola Tilly Repurpose for Student Engagement</i>	5,750.0	12,500.0	8,000.0
<i>UAS Natural Science Lab Consolidation</i>	12,500.0	950.0	12,500.0
<i>UAA Alaska Leaders Archives and Consortium Library Renovation (FY25-FY26 state funds estimated at \$14m)</i>	950.0	6,000.0	6,000.0
<i>UAF University Park Early Childhood Development Center (FY25-FY26 state funds estimated at \$6m)</i>	6,000.0	2,500.0	2,500.0
FY24 Capital Budget Total	93,500.0	10,750.0	104,250.0

Continuation - Economic Development: Research and Workforce Training Projects

<i>UA Drone Program Year 2</i>	<i>20,000.0</i>
<i>Alaska Food Security & Independence - Phase 1 (\$5m one-time + \$8m base)</i>	<i>13,000.0</i>

Facilities Deferred Maintenance (DM) and Renewal and Repurposing (R&R)

FY24 (GF: \$72,300.0, NGF: \$0.0, Total: \$72,300.0)

The University of Alaska (UA) is Alaska's system for higher education and a world leader in arctic and climate change research. UA is responsible for maintaining facilities and infrastructure across the state, with nearly 400 facilities totaling 7.9 million gross square feet, an average age of 35.2 years, an inflation-adjusted value of \$4.9 billion, and a deferred maintenance/renewal & repurposing (DM/R&R) backlog of over \$1.5 billion.

Due to many years of unfunded deferral of critical capital projects, there is increasing risk and evidence of building closures. There have been numerous unplanned closures causing significant hardship on student learning and research activities, as well as the associated lost productivity of university students, faculty/researchers, and staff. Priority projects at the university include:

UAA's priority projects include work across campus in the Professional Studies Building, Wendy Williams Auditorium, Social Sciences Building, and Consortium Library to maintain a quality educational environment through building system modernization and increased energy efficiency which will stabilize failing interior systems and minimize disruptions for students and staff.

UAF's top projects address student safety across campus including approximately 23 fire alarm panels that require replacement due to end-of-life issues. Failure of these panels results in repair parts supply issues due to lack of support by the manufacturer which can cause a building closure or requirement to post a fire watch. Additional safety codes at the Patty Pool and Cutler Apartment Complex would also be corrected.

UAS's Technical Education Center (Juneau), Southeast Alaska Maritime Training Center (Ketchikan), and Sitka Hangar (Sitka) have roof which are leaking or experiencing other function issues which require replacement or significant repair as their top priority projects.

UAA Health Workforce Diversity Expansion Project Phase 2 (WWAMI)

FY24 (GF: \$2,000.0, NGF: \$0.0 Total: \$2,000.0)

This project supports efforts to expand the College of Health's (CoH) ability to educate more students to fill high-demand workforce needs in our community. This renovation supports the State's request to expand the WWAMI Regional Medical Education Program. The complete project renovates the remainder of the Sally Monserud Hall (SMH) and expands WWAMI's simulation capacity by creating three advanced simulation rooms, a debrief space, and supporting infrastructure.

UAA Health Workforce Diversity Expansion Project Phase 2 (COH programs) & Library Learning Commons

FY24 (GF: \$5,750.0, NGF: \$2,250.0 Total: \$8,000.0)

This project supports efforts to expand the College of Health's (CoH) ability to educate more students to fill high-demand workforce needs in our community. This renovation supports nursing education, telehealth training, and inter-professional education programs. The complete project renovates the remainder of the Sally Monserud Hall (SMH) and accounts for the displacement of the Learning Commons into the Library. The entirety of this effort promotes growth through renovation with a focus on student success. By relocating the learning commons into the library, it allows the University to streamline student services and increase vibrancy in an important community-facing facility, while by renovating SMH we are facilitating the programmatic growth of the CoH within our existing footprint. The project will create a flexible simulation lab, a physical assessment lab, additional debrief space, supporting infrastructure, and addresses the relocation of the Learning Commons into the Library.

UAF Lola Tilly Repurpose for Student Engagement

FY24 (GF: \$12,500.0, NGF: \$0.0, Total: \$12,500.0)

Lola Tilly is a public-facing facility with easy access and parking for students and visitors. Its location on Tanana Drive makes it feel like a Main Street building and as such would serve as a great location for programs that have a high impact on UAF's public-facing functions. As the higher education landscape is prioritizing community collaboration and engagement, UAF is shifting to focus on creating physical spaces that are accessible, welcoming, engaging, and collaborative. The intent of this project is to update the Lola Tilly to be such a space that could function as an access point to the campus and build a feeling of connection with UAF to students, faculty, staff, alumni, Fairbanks, and beyond.

Having a central and open gathering space that is highly visible, usable, and updated is an important step in progressing UAF's strategic goals including for prospective students looking to attend UAF. The repurpose and renovations will include the demolition of an old cooking kitchen, enlarging bathrooms, and creating spaces that function for the programmatic need centered around student engagement and experience. Where deferred maintenance and renewal corrections such as replacing the inefficient exterior window wall, updating the heating controls, and addressing outdated electrical systems can be leveraged into the scope they will be addressed within the project.

UAS Natural Science Lab Consolidation

FY24 GF: \$950.0, NGF: \$0.0, Total: \$950.0)

UAS natural science lab is located off campus at the Natural Science Research Lab (NSRL) building. This building is located in an industrial part of Juneau and was not designed for academic laboratory research and has limits of how the University can use the space. This project will relocate UAS laboratory programs in the NSRL building to the Anderson Building on campus and next to the new Auke Bay Natural Science Building. This will bring all of our Natural Sciences students, faculty and staff into one area for better continuity, economy and synergy. This will enable UAS to sell the NSRL building resulting in reduced building space and reduced fixed costs associated with the operation and maintenance of the NSRL.

The NSRL property has inadequate parking to meet current zoning codes. UAS currently leases parking spaces on nearby private property. This project will purchase adjacent land to provide all of the zoning-required parking for the property

UAA Alaska Leaders Archives and Consortium Library Renovation

FY24 (GF: \$0.0, NGF: \$6,000.0, Total: \$6,000.0)

FY25-FY26 (GF: \$14,000.0, NGF: \$0.0, Total: \$14,000.0)

The Alaska Leaders Archive will preserve and promote the legacy of public service and leadership in Alaska. Established at the University of Alaska Anchorage (UAA), the archives will hold the public records, papers and artifacts of Alaska's public leaders. The archival papers of Senator Ted Stevens, and prospectively Congressman Don Young, will hold a preeminent role in the archive's collections. The archives will also include papers from more than 100 Alaska leaders including Governor Jay Hammond, Governor Wally Hickel, Vic Fischer, Willie Hensley and numerous others. The archives will include records of Alaska Native Corporation leaders, tribal leaders, as well as business and community leaders who played key roles in Alaska history and arctic policy. The archives will be accessible to students, faculty scholars, policymakers and the general public.

Facility renovations to the existing library will create a modern archive, enhanced academic and conference space and a public-facing museum. This unique public repository will bring together, in one place, the documents of Alaska leaders and hold these artifacts for future generations. The archives will allow Alaskans and visitors an opportunity to study and relive events that have shaped our state's history. UAA will present these archives to the public for study and discussion without regard for political considerations or affiliations. The university will use these historical records as the base foundation to advance pathways for civic engagement and programming for public service, dialogue and active civic engagement. The FY23 Federal budget is expected to include a \$6 million earmark for the Alaska Community Foundation to support the preservation, processing, and digitization of records of Alaskan leaders.

FY24 Capital Budget Request Descriptions

UAF University Park Early Childhood Development Center

FY24 (GF: \$0.0, NGF: \$2,500.0, Total: \$2,500.0

FY25-FY26 (GF: \$6,000.0, NGF: \$0.0, Total: \$6,000.0)

UAF has long needed more childcare and childhood development options for employees and student parents. The program is driven by the University's continued growth in non-traditional students seeking post-secondary education while still maintaining employment and a family. UAF must also be a competitive employer, expanding childcare options for employees which support UAF's academic, service and research efforts. While the University Park building is well-suited to support childcare, it has significant renewal and repurposing needs. This project will renew and repurpose the southwest wing of the University Park building to support a change of use for an Early Childhood Development Center. Work includes renewal of 10 classrooms and associated ancillary spaces to create early childhood education labs and construction of age-appropriate restrooms, eating and playground facilities. Major mechanical and electrical systems will also be revitalized to serve the intended purpose. This facility improvement also helps expand childcare offerings in the Fairbanks area, where these services are limited in the community, impacting employee workforce needs and productivity. UAF is also exploring agency partnerships for increasing childcare offerings; this renovation is a requirement to support this effort. The \$2.5 million is for a potential partnership with the Fairbanks North Star Borough.

University of Alaska 10-Year Capital Improvement Plan (in thousands of \$)

	FY24	State Appropriations				
	Unrestricted General Fund (UGF)	Designated, Federal, and Other Funds	Total Funds	Short-Term FY25-FY26	Mid-Term FY27-FY28	Long-Term FY29-FY33
Deferred Maintenance (DM)/Renewal & Replacement (R&R)						
Facilities Deferred Maintenance/Renewal & Repurposing ¹			72,300.0	72,300.0	100,000.0	100,000.0
Major Maintenance & Renewal Projects						
<i>UAA Main Campus</i>						
Health Workforce Diversity Expansion Project Phase 2 (WWAMI)			2,000.0	2,000.0		
Health Workforce Diversity Expansion Project Phase 2 (COH programs) & Library Learning Commons		5,750.0	2,250.0	8,000.0		
Alaska Leaders Archives and Consortium Library Renovation			6,000.0	6,000.0	14,000.0	
Alaska Native Success Initiative					4,000.0	
Student Success Center (Welcome Center Renovation)					75,000.0	
Seawolf Sports Complex Ice Rink Renovations (FY25: \$50M University Receipts)					20,000.0	
Aviation Building: Welding & Non-destructive Testing Renovation					5,000.0	
Fine Arts Ceramics Renovation					5,000.0	
Exterior Safe Access and Circulation Improvements				3,156.0	4,000.0	4,844.0
Fine Arts Building Gallery Modernization					100.0	4,900.0
GHH Consolidation of Campus Administrative Support					200.0	1,800.0
Cuddy Hall Renovation						12,000.0
Child Welfare Academy Relocation						3,000.0
Residential Campus Modernization						109,000.0
<i>UAF Campuses</i>						
Lola Tilly Repurpose for Student Engagement			12,500.0	12,500.0		
University Park Early Childhood Development Center			2,500.0	2,500.0	6,000.0	
UAF STEM Lab Renewal for Alaska Industry Initiatives: Duckering, Arctic Health Research Center, Bunnell					5,500.0	
Troth Yedha' Campus Wayfinding Renewal					2,150.0	
Patty Center Revitalization for Student Recreation and Athletics					40,608.0	
Elvey Building Renewal and Repurpose					86,000.0	
Ben Eielson Building Renewal and Energy Efficiency					23,500.0	
Fine Arts: Theater Wing Major Renewal					20,000.0	

1. Highlighted rows are new projects.

University of Alaska 10-Year Capital Improvement Plan (in thousands of \$)

	FY24	State Appropriations				
	Unrestricted General Fund (UGF)	Designated, Federal, and Other Funds	Total Funds	Short-Term FY25-FY26	Mid-Term FY27-FY28	Long-Term FY29-FY33
Arctic Health Research Center Major Renewal and Repurpose						69,500.0
O'Neill Building Renewal and Repurpose						45,250.0
<i>UAS Campuses</i>						
Natural Science Lab Consolidation		950.0		950.0		
Soboleff Building Modernization					6,000.0	
Sitka Renovation for NW Coast Arts, Science Lab Mariculture and Student Services areas					6,000.0	
Novatney Lower Floor Renovation				300.0	2,700.0	
Egan Library / Cyril George Indigenous Knowledge Center (CGiKC) (FY25-FY33: \$2.5M University Receipts)						
Alaska College of Education Building Remodel/Replace			200.0	800.0	14,000.0	
Sitka Hangar Historic Renovation			100.0	300.0	10,600.0	
Banfield Hall Conversion (FY29-FY33: \$1M University Receipts)						1,500.0
∞						
New Construction						
<i>Academic Facilities</i>						
<i>UAA Main Campus</i>						
ANSEP Acceleration Building					900.0	8,100.0
ADT Diesel Lab Expansion					5,000.0	
Health Sciences Building Phase 2 (Includes Parking Structures)						164,000.0
<i>UAA Community Campuses</i>						
Kodiak Career Center				2,000.0		
KPC-KBC Technical Career Center					1,100.0	9,300.0
PWSC Vocational Technology Center					2,500.0	22,500.0
MSC Middle College & ANSEP Facility					1,000.0	19,000.0
<i>UAF Main Campus and Community & Technical College (CTC)</i>						
Arctic Emergency Services Workforce Center of Excellence					53,000.0	
Agricultural and Forestry Station Outreach Laboratory					10,000.0	
Troth Yeddha' Indigenous Studies Center: Park & Building (FY25-FY26: \$40M University Receipts)						
Community & Technical College (CTC) Aviation/Hangar Addition						13,000.0

1. Highlighted rows are new projects.

University of Alaska 10-Year Capital Improvement Plan (in thousands of \$)

FY24

State Appropriations

	Unrestricted General Fund (UGF)	Designated, Federal, and Other Funds	Total Funds	Short-Term FY25-FY26	Mid-Term FY27-FY28	Long-Term FY29-FY33
<u>UAF Community Campus</u>						
Kuskokwim Campus Yup'ik Cultural Learning Center Expansion						7,200.0
<u>UAS Campuses</u>						
TEC Reincorporation Phase 1: Wood Shop, Construction Shop, NW Coast Arts				14,000.0		
Lakeside Access Improvements Phase 1: Lakeside Classroom (\$0.5M University Receipts)				500.0		
Ketchikan Maritime Training Center Expansion				10,000.0		
TEC Reincorporation Phase 2: Welding Lab & Nursing				1,000.0	10,000.0	
Sitka Science / Mariculture / Innovation Center (FY29-FY33: \$5M University Receipts)				1,000.0	4,000.0	
Sitka Northwest Coast Arts Facility				5,000.0		
Ketchikan Paul Building Renovation / Replacement				22,000.0		
TEC Reincorporation Phase 3: Mining & Auto				15,000.0		
<u>Research Facilities</u>						
<u>UAF Main Campus</u>						
Science, Teaching & Research Building				3,000.0	97,000.0	
Energy Test Laboratory Annex (FY25-FY26: \$6.5M University Receipts)						
Toolik Research Field Station: Classroom (FY25-FY26: \$3.0M University Receipts)						
<u>Student Life (Housing), Support, and Other Facilities</u>						
<u>UAA Community Campuses</u>						
MSC Recreation Facility				19,000.0		
KBC Lecture Hall and Community Center				10,000.0		
<u>UAF Main Campus</u>						
Student Success: Housing Revitalization				28,250.0		
Troth Yeddha' Core Campus Parking				6,500.0		
Nanook Community Ice Center				64,500.0		
Student Success: Student Recreation Center Expansion				750.0	12,000.0	

1. Highlighted rows are new projects.

University of Alaska 10-Year Capital Improvement Plan (in thousands of \$)

FY24

State Appropriations

	Unrestricted General Fund (UGF)	Designated, Federal, and Other Funds	Total Funds	Short-Term FY25-FY26	Mid-Term FY27-FY28	Long-Term FY29-FY33
<i>UAS Main Campus</i>						
Aak'w Lake Longhouse/Cultural Center (FY29-FY33: \$10M Federal)			2,000.0		8,000.0	
Outdoor Studies Storage at Auke Lake					300.0	
Facility Services Consolidate and Relocate					11,000.0	
UAS Student Life Building (\$10M Non-State)					11,000.0	
<i>Infrastructure</i>						
<i>UAA Main Campus</i>						
MAPTS Kenai Ground Water Containment					1,000.0	
<i>UAS Campuses</i>						
Strengthen Campus Security - Juneau, Sitka, Ketchikan			500.0			
Pedestrian Crossing of Highway to Science Buildings			500.0		7,500.0	
Landmark, Branding, Signage Improvements			750.0			
Improve Pedestrian Crossing at Main Entry (Back Loop Road Intersection)				1,000.0		
Sitka Waterfront, Traffic and Pedestrian Access Improvements			500.0		4,500.0	
Lakeside Access Improvements - Phase 2 - Floating Trail & Dock (FY27-FY28: \$0.4M University Receipts)				500.0		
Sitka Boat Storage Facility					1,700.0	
<i>Land, Property, & Facilities Acquisition</i>						
<i>UAS Campuses</i>						
Ketchikan Maritime Center Property Expansion			1,800.0			
North Entrance Land Purchase			750.0			
Private Property Acquisition along Glacier Highway			800.0		800.0	900.0
<i>Equipment</i>						
<i>UAA Main Campus</i>						
Classroom Technology Enhancements			3,000.0		2,000.0	5,000.0

University of Alaska 10-Year Capital Improvement Plan (in thousands of \$)

	FY24	State Appropriations				
	Unrestricted General Fund (UGF)	Designated, Federal, and Other Funds	Total Funds	Short-Term FY25-FY26	Mid-Term FY27-FY28	Long-Term FY29-FY33
<i>UAF Main Campus</i>						
Inclusive Technology Infrastructure: e-Campus Recording Capabilities, ADA Accessibility & Instructional Classroom Technology			4,000.0			
Critical Troth Yedha' Campus Heavy Equipment			700.0			
<i>UAS Main Campus</i>						
Smart Classrooms Juneau Campus			200.0			
Research for Alaska						
<i>UAA Main Campus</i>						
Northern Climate Research Electric Shuttle Buses and Charging Infrastructure			3,000.0			
ConocoPhillips Integrated Sciences Building (CPISB) Combined Heat and Power (CHP) Energy Savings Project			1,200.0			
<i>UAF Main Campus</i>						
Poker Flat Research Range (PFRR) Oil Spill Research Test Basin (potential \$1.0M University Receipts)			750.0			
Interdisciplinary Research and Intellectual Property Capacity Expansion (potential \$1.0M Non-state)			500.0			
FY24 Total	93,500.0	10,750.0	104,250.0	625,514.0	281,600.0	768,144.0

1. Highlighted rows are new projects.

University of Alaska
FY24 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R)
(in thousands of \$)

MAU	Project Name	City	DM	R&R	FY24 Request
1 UAA	Professional Studies Building, Wendy Williams Auditorium, Social Sciences Building, Consortium Library Campus Building Interior & Systems Renewal	Anc	17,498.0	2.0	17,500.0
2 UAS	TEC, Maritime Training Center, and Sitka Hangar Building Roof Systems, Safety Improvements, and Regulatory Compliance projects	Jun Ketch. Sitka	2,646.0	965.0	3,611.0
3 UAF	Patty Pool Code Corrections, Campus-wide fire alarm replacements and other Safety and Compliance projects	Fai	10,283.5	976.2	11,259.7
4 UAA	Arcade & Bridge Lounge Campus Building Envelope & Roof Systems Renewal (Bridge connecting East and West campus)	Anc		1,500.0	1,500.0
5 UAS	Housing Apartments and Banfield Hall Fuel Tanks Replacement, Jun Mourant Covered Stairway, and Sitka Emergency Power (Exterior Infrastructure)	Jun Sitka	927.0	750.0	1,677.0
6 UAF	Cutler Apartments Building Envelope and Roof Systems	Fai	1,050.0	1,050.0	2,100.0
7 UAA	Social Sciences Building Exterior Doors	Anc	300.0		300.0
8 UAS	Paul Building elevator replacement, ASHP replacement, and other Interior Systems projects	Jun Ketch.	1,212.0		1,212.0
9 UAF	Elvey, Rasmussen, and Bunnell Building Interior and Systems Renewal	Fai	16,350.4	2,000.0	18,350.4
10 UASO	Butrovich Replace Emergency Egress Lighting Power Supply	Fai	200.0		200.0
11 UAA	Campus-wide Regulatory Compliance, Safety Improvements, and Code Upgrades (ARC fault codes and ADA accessibility)	Anc	384.4	515.6	900.0
12 UAF	Rural and Community Campus Renewal (fire alarms and other code corrections, energy efficiency, foundation)	Bethel Dilling. Kotz. Nome	3,655.5	365.8	4,021.3
13 UAA	Growden-Harrison Building PWSC Campus Renewal (HVAC, mechanical, electrical, envelope)	Valdez	44.5	1,321.6	1,366.1
14 UAF	Cutler Apartments Storm Drainage and Campus Exterior Pathways Renewal	Fai	1,297.4	526.2	1,823.6
15 UAA	McLane Building heat plant and air handling equipment and other KPC Campus building renewal projects	Soldot.	168.9	2,082.3	2,251.2
16 UAF	Community and Technical College (CTC): Center Renewal (code corrections and emergency lighting) and University Park Restroom Renovation	Fai	735.0	210.0	945.0
17 UAA	KPC-KBC Campus building Renewal projects (safety, security, ADA access, energy efficiency)	Homer	24.3	107.5	131.8
18 UAA	Kerttula Building, Ortner Warehouse, and Machetanz Building boilers (MSC Campus Renewal)	Palmer	977.4	1,130.0	2,107.4
19 UAA	KOC Campus Renewal (roofing, security, safety, and accessibility)	Kodiak	330.6	512.9	843.5
20 UASO	Butrovich Lighting Efficiency Upgrades	Fai	200.0		200.0
Total			58,284.9	14,015.1	72,300.0

*Campus level request and full DM/R&R information available on the FY24 Facilities Maintenance Budget (pg 44).

FY24 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

UAA Professional Studies Building, Wendy Williams Auditorium, Social Sciences Building, Consortium Library Campus Building Interior & Systems Renewal

Request: \$17,500.0

Many of the original buildings on the UAA campus were constructed in the early- to mid-1970s and the building systems are beginning to fail and are no longer adequate for the current demands and require replacement or upgrading. The mechanical, electrical and heating ventilation and air conditioning (HVAC) systems in particular fall into this category. Replacement parts for many of these systems are no longer available. Replacement of these systems would prevent systemic building failure and allow for increased energy efficiencies with better environmental control throughout the building. The older systems are very expensive to operate due to their low efficiencies. This project will replace failing piping, inadequate electrical systems, inefficient lighting, boilers, fans, and deficient variable air volume (vav) boxes and upgrade the building automation system controls.

Building System Modernization and Energy Performance Upgrades

This time sensitive project will incorporate heating, mechanical and electrical system improvements to four critical facilities, the Professional Studies Building (PSB), the Wendy Williamson Auditorium (WWA), the Social Sciences Building (SSB), and the Consortium Library to prevent critical failures, reduce maintenance costs, and provide energy savings through increased efficiency. PSB and WWA are connected facilities and they share some of the infrastructure scheduled for replacement as part of this project. All four facilities were constructed in the early 1970s and the infrastructure, for the most part, is original and requires replacement. The electrical and mechanical systems are antiquated and are beyond their useful life.

- **Professional Studies Building (PSB)** scope will include boiler replacement, LED lighting upgrades, electrical safety upgrades, replacement of the existing air handling unit fan with a fan wall system, and convert outdated pneumatic controls to direct digital controls (DDC).
- **Wendy Williamson Auditorium (WWA)** scope will include LED lighting upgrades, electrical safety upgrades, conversion of pneumatic controls to DDC, and hot water pump replacements.
- **Social Sciences Building (SSB)** scope will include LED lighting conversion, electrical safety upgrades, the addition of hydronic heating to the 2nd & 3rd floors of the building, conversion of pneumatic controls to DDC, and fin tube repairs.
- **Consortium Library Old Core Mechanical Upgrades:** The original HVAC systems consist, for the most part, of equipment over 48 years old located within the four central building cores. The boilers, main supply/exhaust fan units, heating/cooling coils, galvanized piping and humidification systems have all reached the end of their useful life. Major component parts are no longer available for these units. Heating system piping and coils are filled with sedimentation. Control systems are no longer able to properly regulate airflow resulting in irregular temperatures and conditions within the building. The 2004 library addition contains newer HVAC systems with different control and delivery systems that have resulted in incompatibilities between the two systems and has affected the efficiencies of both systems. This first phase request addressed boilers and other mechanical systems within A & D cores of the original library, this project would continue to B & C core.

UAS TEC, Maritime Training Center, and Sitka Hangar Building Roof Systems, Safety Improvements, and Regulatory Compliance projects

Request: \$3,611.0

Building envelope and roof systems provide our students, staff, faculty, and building systems protection from wind, rain, snow, and cold. When a building envelope fails, everything inside the building is at risk of damage, and decay and can make the building unsafe and unusable. Building envelopes last 30-50 years depending on the construction type and require periodic cleaning, repainting, and resealing. New roof systems last 40-60 years and besides periodic cleaning need little maintenance. Two buildings in Juneau and both Sitka and Ketchikan campus building envelopes are more than 40 years old, showing signs of compromise, and need to be replaced. Some of the current priority projects in this category include roof repair or replacement for the following buildings:

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- **Technical Education Center:** The TEC roof is more than 40 years old, is no longer under warranty and is leaking. The roof has reached its life expectancy, pavers are crumbling, several areas have leaks, and the structural steel and pan deck is rusting. There have been several attempts at patching the leaks and supporting the structural members. However, these are temporary repairs and the roof system needs to be replaced. This project will remove and replace existing roofing systems and add insulation to meet current design standards.
- **Southeast Alaska Maritime Training Center:** This building in Ketchikan houses ship's bridge training simulators, health sciences and general science labs, classrooms, and faculty offices. All essential programs to UAS's mission. The Maritime Center roof is more than 40 years old and has exceeded its useful life. The roof system has very little insulation causing substantial heat loss and high heating costs. Inadequate insulation is more than a thermal issue; the sound of heavy rain reverberating on the roof is so loud it disrupts classes, forcing faculty to shout to be heard. This project will replace the roof system with a new well-insulated roofing system that has a 40-year warranty that will save 10%-15% in annual heating costs.
- **Sitka Hangar:** The Sitka building was constructed in the 1940s as an airplane hangar. UAS has built an office inside this hanger. The hanger roof over the office portion of the campus facility leaks, jeopardizing the interior office space structure. This project will inspect the roof system, repair the leaks and determine the remaining lifespan of the roof system.

The safety of our students, staff, and faculty is of great importance to UAS and employees strive to keep our facilities in compliance with current building codes, health mandates and safety standards. Regulatory agencies frequently update their requirements as investigations find safer ways to build buildings and as new technologies prove themselves to increase the health and safety of building occupants. Building owners are allowed to postpone implementing many of these regulatory changes until the next major building renovation. However, some of them are mandated to be implemented by a specified date. In addition, UAS is always looking for ways to improve campus safety regardless of regulatory mandates. Many of the fire alarm systems on campus are old and the manufacturer no longer makes replacement parts. Southeast Alaska communities are relatively safe compared to larger communities. However, theft from vehicles in parking lots, unauthorized access to campus and publicly aware community make for frequent requests for improving campus safety.

Some of the current priority projects include:

- **Campus Security Improvements:** Security is a concern for the community campus and many feel that security should be improved on campus. UAS is contracting with a university security consultant in the fall of 2022. This consultant will evaluate our campus security, identify risks on campus with their probability, making comparisons to national standards and similar universities. They will then produce a report with recommendations to improve security/safety, estimated costs and the best use of limited funding. This project will design and implement these additional security features, which may include student training, staff training, policy changes, protocol changes, signing, lighting, security cameras, proxy card door locks. This project can be designed, bid, and constructed in the current fiscal year.
- **Emergency Notification & Acoustic Improvements:** The acoustics in the Mourant Cafeteria are very bad making it difficult to hear the person talking across the table, or someone making announcements at an event and it is near impossible to hear the UAS emergency notification phone intercom messages. This project will install a sound system that is connected to UAS Cisco Infromacast system that can transmit emergency messages and will provide high-quality speech reinforcement for presentations and group meetings. This project can be designed, bid and constructed in the current fiscal year.
- **Fix or Replace Retractable Bollards:** UAS has retractable bollards to prevent unauthorized vehicle traffic from driving thru the campus courtyard. However, the bollards are typically not working, allowing unauthorized vehicles to enter the courtyard. This detracts from the pedestrian-friendly and student-centered nature of the campus courtyard. Safety is compromised by having vehicles using the same travel way as pedestrians. This project will investigate options for keeping the pedestrian-friendly nature of the campus courtyard. These options

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may include; more dependable bollards, sliding/tilting gates, high back curbs, permanent fire barricade bollards, separate service entrances, and stricter penalties for violators.

- **Exterior Stairway Covers at Housing:** The exterior stairways frequently experience a buildup of snow and ice on the steps. Grounds crews spend an inordinate amount of time removing snow and ice. However, it is often not enough to keep up with the Juneau freeze thaw cycles, resulting in icy stairways. This project will install covers over the stairways to prevent snow buildup and reduce the risk of students slipping. This project can be designed, bid and constructed in the current fiscal year.

UAF Patty Pool Code Corrections, Campus-wide fire alarm replacements and other Safety and Compliance projects

Request: \$11,259.7

Providing a safe and compliant campus for everyone is the top priority at UAF. UAF works hard to maintain a healthy campus, reduce risk to building occupants, and ensure students have the safest experience possible, yet the aging campus is requiring larger upgrades to reduce risk and prevent injury. There are many facilities constructed prior to code adoption in the State of Alaska that do not meet current requirements for ventilation, disease mitigation, emergency egress, ADA>Title IX, and fire protection. Remaining in compliance requires an ongoing effort to modify and upgrade every component of campus from exterior hardscapes, elevators, building passageways, and restrooms to fire alarms, locker rooms, signage and security infrastructure.

Safety and regulatory compliance projects provide updates to building features meant to protect the occupants and reduce risk to our students, staff, and faculty. Work includes updating ventilation to ensure sufficient fresh air is supplied to occupied rooms, replacing fire alarm systems, correcting emergency egress paths, and abating asbestos-containing material.

- **Patty Pool Code Corrections:** The Patty Pool is one of four public pools in the borough and is host to multiple community, high school, and NCAA-sanctioned collegiate events, recreational activities, and classes. The 60-year-old pool has been well maintained but needs renewal to address a variety of issues from functional obsolescence to modernization of plumbing systems and code compliance. The project will repair and renew the finishes, mechanical, electrical, and structural systems in the pool vessel, deck, and balcony seating. Work will include repairing structural and non-structural cracks in the pool vessel and deck, replacing the fire alarm system, replacing the natatorium and pool vessel lighting, replacing all pool water-related plumbing(sanitation), providing a new fire sprinkler system, installing corrosion-resistant finishes, and installing a better vapor barrier on the exterior wall.
- **Campus Wide Fire Alarm Replacement for End of Life:** Approx. 23 fire alarm panels on the Troth Yeddha' Campus in Fairbanks have reached their end of life and the manufacturer is no longer supporting them. Panel failures are causing buildings to be closed or post a fire watch. A comprehensive plan has been created to replace panels in small buildings, reserving those parts for older, larger buildings that have a higher cost to update. The next facilities to replace are Gruening, Fine Arts/ Rasmuson Library, and Signers' Hall.
- **Lab Ventilation Air Controller Replacement:** Laboratory ventilation is required to maintain a specific amount of exhaust air to protect lab users from hazardous chemicals. Many of the lab controllers built by Phoenix Controls have reached the end of their useful life, are no longer supported by Phoenix, and must be replaced to keep the lab's code compliant. Without the air valve, the required supply and exhaust air cannot be exchanged in the spaces. The project is also related to COVID mitigation measures. The Biological Research and Diagnostics and Duckering Building are in the queue for FY24.
- **Fairbanks Campus Wide Doors and Security Renewal:** The Fairbanks Campus has over 9,000 doors secured with a keying system that is 20 years beyond its patented expiration date. The antiquated keying system severely compromises building security and leaves facilities vulnerable to break-ins, property theft, and vandalism. Nearly half of the campus doors have outdated and broken hardware, and oftentimes the door is also in need of

FY24 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

replacement. Many of the exterior and emergency exit doors do not meet current fire codes or ADA regulations. Over three years, UAF developed a multi-phased plan to complete a door hardware inventory, design and purchase a new keying system, establish a robust key issue policy, and begin replacing doors and door hardware. Electronic locks are installed on exterior doors to allow for fast lock-down of a building whether at the end of the normal business day or during a violent intruder event. The next phase of renewal will replace exterior doors and/or hardware at the Elvey Building, and O'Neill Building. Interior work will focus on the implementation of the keying system across all campus facilities as well as the replacement of fire exit doors in Duckering, Gruening, and Bunnell. Phased capital funding over FY24/25 will complete the critical campus-wide initiative.

- **Cutler Apartment Complex ADA Compliance:** The existing sidewalks along the Cutler Apartments Block 400-600 are failing, dimly lit, and do not meet ADA requirements. The ADA apartments are only accessible from the east end of the block and the pathway has failed. The project will replace sidewalks, ramps, stairs, and retaining wall along these apartments to ensure ADA compliance.
- **Irving 1 Elevator Replacement:** Installed in 1970, this elevator has never been modernized. The existing equipment is a motor/generator supplying DC power to a motor-driven machine with an antiquated relay logic controller. The elevator pit ladder and stop switch are hard to reach and the light switch is in the machine room. Modernization and upgrades will include a new machine & 3-phase AC motor, a new digital VFD controller, new door operators for the car and lobbies, a new governor, new ropes, car finishes, lights, and control panel, and updated fire service. Through this project, fire and elevator code issues with the shaft and alarms will be addressed.

UAA Arcade & Bridge Lounge Campus Building Envelope & Roof Systems Renewal (Bridge connecting East and West campus)

Request: \$1,500.0

This project will address campus-wide deferred maintenance and renewal and renovation requirements for building envelope and roof systems. It will include roof repair and replacement, doors, windows, vapor barriers, siding, weatherization, insulation; and other building envelope issues.

- **Arcade & Bridge Lounge Spine Connecting East & West Campus:** The Arcade Bridge & Lounge (ABL) is a critical facility that provides equitable, year-round, interior access via an enclosed walkway that spans Chanshtnu (Chester) Creek, connecting east campus to west campus. This project seeks to replace the roof and window systems of this facility. The existing roof system consistently leaks in multiple locations, is a challenge to maintain, and is well beyond its useful life. The existing windows are single pane, outdated, incredibly energy inefficient, and out of alignment with our building standards. This project will demolish the existing roof and windows system, increase parapet cap height, upgrade structural components for seismic restraint, replace roof decking as required, install a new roofing system, and install new windows improving the building envelope, increasing energy efficiency, and ultimately reducing operating costs.

UAS Housing Apartments and Banfield Hall Fuel Tanks Replacement, Mourant Covered Stairway, and Sitka Emergency Power (Exterior Infrastructure)

Request: \$1,677.0

Exterior Infrastructure consists of all UAS facilities that are located outside of a building including, roads, parking lots, sidewalks, landscaping, and distribution systems for water, wastewater, communication, and power. There are several areas on campus where the exterior infrastructure is showing signs of its age, increasing the risk of failure and reducing the safety of our campus community. Some of the current priority projects in this category include:

- **Housing Apartments Fuel Tanks Replacement:** Housing Apartments Unit fuel tanks are 35 years old and reached the end of their useful life and need to be replaced before they start leaking. This project will replace the 9 existing fuel tanks with new double-wall tank with an interstitial monitoring system meeting current environmental codes. This project can be bid on and constructed in the current fiscal year.

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- **Covered Stairway Mourant:** The pedestrian route from the courtyard to the lower levels of classrooms in Novatney & Whitehead buildings is not intuitive, which causes students and staff to take a shortcut down the steep grass slope between the Mourant and Novatney buildings. This is not a formal sidewalk or stairway and is unsafe, especially during the winter when the slope is covered in ice or snow. This project will install a covered stairway from the courtyard down to the lower sidewalk level.
- **Sitka Campus Emergency Power:** Sitka Campus does not currently have a backup generator for power failure. The campus houses important research material in deep freeze freezers; a prolonged power failure could cause irreplaceable damage to research materials. Student instruction and employee work cannot proceed during a power outage. During the COVID-19 pandemic, UAS relocated their -80 Degree freezer to the Sitka fire hall because they had backup power and then it could be used for storage services for the Pfizer Vaccine. This project will install an emergency generator that can accommodate campus operations during a power outage, thus protecting the research materials and improving the resiliency of the UAS Sitka campus and improving support and services during an emergency.

UAF Cutler Apartments Building Envelope and Roof Systems

Request: \$2,100.0

The hallmark of a sustainable building is a solid foundation underfoot and a dry envelope overhead. Building envelope elements such as roofs, entry doors, windows, and exterior cladding for selected buildings at UAF are in poor to failing condition. Systematic building envelope replacement and improvement is needed to prevent leaks, failures, and other disruptive damage to building assets and occupants. Renewal projects help prevent programmatic function interruptions from emergency repairs, lower ongoing maintenance cost, and increase energy efficiency through improved thermal and moisture protection. The work preserves existing assets for the continuation of program and mission delivery.

Projects within this category include roof repairs and replacements, doors, windows, vapor barriers, exterior painting, siding, weatherization, insulation, foundations, and other building envelope issues. High performance building envelopes are critical to protect a building's interior finishes and structural integrity, and increase energy efficiency. The roofing projects are an ongoing replacement of roofs that have reached the end of their useful and protective life. Many windows and exterior entry storefronts are mostly original to the buildings on campus, with older construction technology and poor insulation values, or have deteriorated from constant high volume use. Exterior door replacement work improves the ability to lock down buildings, enhancing safety and security of faculty, staff and students, improving ADA access and emergency egress.

- **Cutler Apartment Roofing:** The Cutler Apartments are the largest and most popular apartment-style housing offered on the Troth Yeddha' Campus in Fairbanks. Over multiple years, the roof systems have failed and relied on patches to continue to allow occupancy. Three phases have been completed since 2016 leaving three more blocks to complete. The project will remove the failed roofs and rotted substrate and rebuild the systems with additional insulation and vapor barrier and a roof that has a long warranty.

UAA Social Sciences Building Exterior Doors

Request: \$300.0

Situated in the UMED district in the largest city in Alaska, safety and security is a university top priority. Security enhancements improved by this project will allow UAA to keep current in compliance with Clery Act and will promote a safe campus, minimizing risk for the students and campus community. Security enhancements include expansion of the recently upgraded access control system, key control management system, emergency communication platform upgrades, and wayfinding. Buildings in this request include the Social Sciences Building, and the Seawolf Sports Complex.

UAS Paul Building elevator replacement, ASHP replacement, and other Interior Systems projects

Request: \$1,212.0

Building Systems makes the interiors of our facilities a pleasant and safe place to study, work and learn. Heating systems keep the buildings warm in the winter. Ventilation systems bring fresh outside air into the building and keep air circulating thru the building to prevent the growth of mold and mildew. Lighting, communication, water and wastewater systems keep the building occupants safe and productive. Many UAS buildings are more than 40 years old. While some of the interior systems have been updated, there are still many interior systems that have exceeded their design life and need to be replaced with new and more efficient systems. Some of the current priority projects in this category include:

- **Elevator replacement Paul Building: (Ketchikan)** The elevator in the Paul building is 47 years old, the manufacturer no longer makes replacement parts and needs to be replaced. The elevator has been out of service for extended periods over the past several years. This creates a hardship on students, staff and faculty that have mobility challenges. This project will replace the existing elevator. This project can be designed, bid and encumbered in the current fiscal year and construction would take 18 months.
- **Replace Air Source Heat Pumps:** UAS has several buildings with LG Air Source Heat Pumps to heat the building. Unfortunately, they have not performed as intended with lower heat recovery and frequent breakdowns. Getting someone to repair the system has been expensive and difficult, resulting in the system being down for months to years. This project will replace the ASHP with a system that is more reliable. This project supports UA's priority of reducing fixed cost base by increasing efficiency of the heating system and lowering annual energy costs.

UAF Elvey, Rasmussen, and Bunnell Building Interior and Systems Renewal

Request: \$18,350.4

Many of the buildings at UAF were constructed in the 1960s and 1970s and the original building interiors and systems are in very poor to failing condition, no longer adequate for current enrollment demands, and require replacement or upgrading. The systems including finishes, plumbing, ventilation, heating, lighting, and electrical, are expensive to operate due to their low efficiencies and lack of replacement parts, and are no longer in compliance with current life safety codes. Failing systems are causing partial building closures across campus, increasing operating costs for temporary space, or in some cases displacing students to off-campus housing. In some cases, these deteriorating systems have caused class and research cancellations and eroded UAF's ability to obtain new grants and initiatives.

Replacement of these systems will allow for increased energy efficiencies and better environmental control throughout UAF's facilities. Projects in this category lower operational costs by upgrading or replacing old building systems with current up-to-date technology where there is greater payback. The work will also renew aging, highly-used components including sanitation improvements, securing aging interior classrooms and labs and addressing building code/life safety issues. It will reduce the backlog of deferred renewal and increase the useful life of these facilities. Besides improving building functionality, renewed finishes, doors, restrooms, and classrooms create a better impression for current and future students and the public. Modern, attractive facilities have a direct correlation to student enrollment and success.

The building interior and systems renewal projects address building finishes, plumbing, electrical, and heating/ventilation systems to increase efficiency, reduce maintenance costs, and improve the living environment of highly used buildings. The projects also reduce building code deficiencies, a growing deferred renewal backlog, and address life safety items related to building interior finishes such as doors, hardware, flooring, and ceilings. Due to the age of UAF buildings, most projects have asbestos removal aspects and require upgrades to current codes and standards. The work performed within these projects preserves current facilities, extends the life of systems, and reduces the risk of failure that would impact program delivery.

- **Elvey Annex Deferred Maintenance:** The Elvey Annex provides user space for the Alaska Satellite Facility, and Geophysical Institute, as well as general classroom space for UAF academics. Despite ongoing maintenance and reactive repairs, the 53 years old building has significantly accumulated deferred renewal work reducing the usability and functionality of the space. Work will demolish walls, finishes, and systems back to structure,

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upgrade the building for seismic codes, and rebuild the space to current use. The new work will provide updated finishes, code compliance, new restrooms, increased ventilation, and better lighting and electrical distribution. A large electrical room will be relocated to a better location, free from the roof leaks in the current room that create a dangerous situation for the maintenance workers. It will also reduce the energy consumption used to heat the building by installing a more insulated exterior façade with an improved vapor barrier.

- **Rasmussen Library Deferred Renewal for Student Success:** The Elmer E. Rasmussen Library is the heart of information and student resources at UAF. Beyond the world-class collection of Alaska and Polar Regions materials, the facility offers collaborative learning spaces for all students and the local community. An internally funded project is set to create a Student Success Center that will realign high-impact units from across campus into one central location in the library. To support this project accumulated deferred maintenance on the 4th and 6th floors needs to be addressed. The work will include renovations to the nearly 50-year-old restrooms, replacing worn flooring and lighting, and changes to the stairwells to address existing requirements.
- **Bunnell Ground Level Renewal and Code Corrections:** The 60-year old Bunnell Building is highly utilized for academic programs, classrooms, and UAF Office of Information Technology. The ground-level corridor is well traveled and the finishes are showing their extended age. In the main ground lever corridor: Replace corridor doors, ceilings/lights, and upgrade electric and IT as needed. Remove asbestos and bring corridor walls into code compliance for fire separation. Renovate exit pathways of the two north stair towers to lead directly to the outside; currently the stairs exit to a non-compliant corridor. Scope of work will include cutting holes on Level 2 landings and installing exit-only doors.
- **Campus Wide Restroom Renovations:** Renovate outdated restrooms campus-wide to include new fixtures, finishes, partitions, lighting, etc. The work will include major plumbing code corrections, ADA compliance, and asbestos abatement. The goal is to renovate a minimum of 4-5 restroom suites per year. For FY24, the priorities are in Bunnell, O'Neill, Irving 1, and Duckering.
- **O'Neill Elevator Modernization:** Manufactured and installed in 1971 by US Elevator, this elevator has never been modernized and US Elevator is no longer in business. Existing equipment is a motor/generator supplying DC power to a motor-driven machine with an antiquated relay logic controller. Modernization and upgrades will include a new machine and 3-phase AC motor, a new digital VFD controller, new door operators for the car and lobbies, a new governor, new ropes, car finishes, lights, and a control panel.
- **Kodiak Seafood and Marine Science Center Energy Efficiency:** The Kodiak Seafood and Marine Science Center is currently heated with expensive fuel oil and the utility costs are a strain on the operating budget of this vital research facility. Through a partnership with the local electrical utility, hydroelectric power may be available at a rate lower than the cost of fuel oil if UAF can front the capital outlay to replace the boilers. Concurrently, a renovation to the air supply system for the labs would reduce energy usage by 30 percent. The overall project will reduce the operating cost of the campus by 25-28% and has an 8-year payback on the capital.
- **Seward Marine Center Research Vessel Infrastructure:** The Seward Marine Center supports marine and fisheries research and is the homeport for the world-class research vessel Sikuliaq. The Hood Building laboratory is utilized by researchers from across the globe to process samples collected during research voyages. The lab also allows scientists to prepare for extended missions on the R/V Sikuliaq. Renewal, demolition, and deferred maintenance work are needed on shoreside buildings that support high-end oceanic and fisheries research programs, the global-class R/V Sikuliaq and other vessel operations. Work will include Hood Lab renovations for energy efficiency, and demolition or repurposing of other small facilities.

UASO Butrovich Replace Emergency Egress Lighting Power Supply

Request: \$200.0

The Butrovich building was constructed in 1988 and is at a point where many of its building components are reaching their life cycle end. Over the next five to ten years many of the main mechanical systems will come due for replacement

FY24 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions or refurbishing. This project will address issues with the emergency egress lighting power supply: replace the two oldest units, combine several units and document emergency egress lighting and signage.

UAA Campus-wide Regulatory Compliance, Safety Improvements, and Code Upgrades (ARC fault codes and ADA accessibility)

Request: \$900.0

UAA requires significant and ongoing investment in existing buildings to maintain them for safe occupancy in compliance with regulations, codes, and safety improvements.

- **Arc Fault Requirements:** This project addresses Occupational Safety and Health Administration (OSHA) National Fire Protection Association (NFPA) 70E requirements for standoff distances, electrical upgrades, safety placards and personal protective equipment requirements (PPE). Failure to meet Arc-Flash requirements places individuals operating an electrical panel at risk to severe injury or death. This project provides required Alaska Occupational Safety and Health (AKOSH) compliance and it remedies critical electrical safety concerns. Work for this request will be spread across the Main Apartment Complex, Templewood Apartments, Gorush Commons, East Hall, West Hall, North Hall, Central Parking Garage, Ecosystem-Biomedical Laboratory, ANSEP Building, and Engineering and Industry Building.
- **Accessibility Improvements:** This project provides updates for Americans with Disabilities Act (ADA) accessibility including replacing door hardware, ADA compliant resolution, restroom upgrades to promote equity and accessibility and ADA signage in the Student Union.

UAF Rural and Community Campus Renewal (fire alarms and other code corrections, energy efficiency, foundation)

Request: \$4,021.3

UAF's College of Rural and Community Development (CRCD) campus sites span Alaska with facilities in Fairbanks, Nome, Bethel, Dillingham, and Kotzebue. These sites provide valuable educational and cultural resources to their local and surrounding communities. Major renewal of the buildings has been a consistent effort over the last several years utilizing capital, operating, and grant funding. Despite these efforts, deferred renewal and code correction work is still required to maintain the critically important campuses.

The remote locations of the CRCD campuses require UAF to prioritize regulatory compliance, distance education, energy efficiency and conservation projects. The priority projects for rural campuses are fire alarm upgrades and fuel tank compliance. Replacement of these systems supports building occupancy and program delivery continuity. Systematic, energy-efficient building improvements use higher-grade, durable construction materials that reduce operational and maintenance costs. This also reduces the frequency of building system failures that are especially costly due to emergency shipping of both labor and material.

- **CRCD Fire Alarm Replacement for End of Life:** Approx. 10 fire alarm panels at the rural campus sites have reached their end of life and the manufacturer is no longer supporting them. Maintaining alarm systems in full operation is required for building occupancy and mission delivery. The next facility to replace is John Sackett Hall and the Maggie Lind Building in Bethel.
- **Kuskokwim Campus Vocational Education Center Electrical Code Compliance:** This two-story facility was constructed in phases between 1977 and 1982. The main academic building contains faculty and staff offices, classrooms, and a vocational education area. The existing main electrical distribution panel is located in the main vocational classroom area and has been cited for several code corrections. This solution includes addressing multiple other modernization needs, by relocating the panel to a new location and replacing other features like the surge suppressor and the grounding system.
- **CRCD Campus Wide Fuel Tank Compliance:** Throughout the rural campus locations, fuel oil tanks are a necessity for heat production. Some locations have tanks that are well beyond their useful life and have multiple

FY24 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

deficiencies. The project will fix code deficiencies associated with the fuel tanks and piping for CRCD facilities statewide. The next building to be addressed is the Kuskokwim Campus Vocational Education Center.

- **Chukchi Campus Admin/Classroom Code Corrections:** During a recent maintenance code review of the campus facilities, engineers determined a portion of the building's exit corridors are not fire-rated in accordance with the building codes. Fire-rated exits provide safe and quick passage out of the building in the event of a fire. The project will provide corrective action to update exit doors and corridors to a fire-rated assembly and replace the fire alarm system.
- **Bristol Bay Campus Margaret Wood Building and Applied Sciences Building Heating Efficiency:** Perform mechanical upgrades in both buildings to address code deficiencies and replace equipment nearing the end of its lifespan. The majority of work will take place in the Margaret Wood Building. Work includes snowmelt system upgrades at the Applies Sciences Building.
- **Maggie Lind & Voc-Tech Building Restrooms:** Renovate the restrooms to renew the finishes and to align with current design standards, modernizing and removing functional obsolescence.
- **Northwest Campus Foundation Replacement:** Relocate five teaching buildings, install pile foundations, and place the buildings back on the new foundations. The foundations of the Science Lab Building, the Northwest Campus Education Center, Sepalla Building, and the University Outreach Building are post on pads and continue to settle at a rate of 3-7 inches per year. The FY24 request would address the University Outreach Building.

UAA Growden-Harrison Building PWSC Campus Renewal (HVAC, mechanical, electrical, envelope)

Request: \$1,366.1

The Growden-Harrison building was originally built shortly after the 1964 earthquake as an elementary school and was added onto in a piecemeal fashion in the following years. This has resulted in aging mechanical, electrical, and HVAC systems that are currently undersized for the facility and have included the use of asbestos-containing materials. The piecemeal additions have resulted in draining and weathering problems that adversely impact the building envelope.

UAF Cutler Apartments Storm Drainage and Campus Exterior Pathways Renewal

Request \$1,823.6

Without robust and functioning infrastructure, program delivery is severely hampered and student health and welfare is adversely affected. Buildings and their occupants require basic infrastructure such as sanitary sewers, electrical power, drinking water, and connectivity via pedestrian pathways to be fully functional and serve the academic and research needs of the campus. The severe Fairbanks climate and years of operation beyond the functional age of these systems have taken a toll on the campus support systems and now pose a significant hazard to the students, faculty, staff, and community. These projects will address infrastructures that are at risk of imminent failure and in urgent need of replacement in order to safely support the UAF campus.

The work will address major code deficiencies and reduce maintenance callouts for these existing aging systems. The improvements also include repairs to pedestrian access paths by targeted replacement of failing lighting fixtures, walkways, ADA ramps, and stairs.

- **Hess Village Family Housing ADA Compliance:** Provide ADA access from parking to apartments, the community center, and the playground on the south end of the complex. Hess Village is currently not ADA accessible which creates a disparity for families looking for housing on campus.
- **Campus Wide Pedestrian Pathways:** Replace broken, non-compliant stairs, sidewalks, and curbs/gutters to reduce slips and trips and improve pedestrian mobility. Work includes small areas around campus including the campus core area, North AHRB, Wood Center Bus Stop Stairs (South and East), Bunnell Northwest Entry, and Irving 1 and 2 North ADA Entrance.

FY24 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

- **Eielson North Entry Repairs:** The north entry at Eielson Building requires grade changes for proper drainage to prevent flooding on the first floor of the building. The work will include installing a storm drain inlet to direct flow to the west and replacing the exterior concrete to ensure adequate slope to the drain.
- **Cutler Storm Drain Repairs:** The current roof drain system at Cutler routes through the crawl spaces of each block and annually floods and erodes soil near the foundations. The project will repair the failing pipe and route it to a better location north of the apartments where it will not backup.

UAA McLane Building heat plant and air handling equipment and other KPC Campus building Renewal projects

Request: \$2,251.2

The Kenai River Campus includes four buildings built between 1971 and 1983. Each building is of different quality having been constructed using different construction methods and materials, and energy efficiencies. The campus is spending too much money on utility costs due to the inefficiencies of the old buildings. With rapidly increasing utility costs, the energy savings realized by this renewal would be significant. The McLane additions were all constructed between 1972 and 1976 and the original air handling units are in place. The air handling equipment and associated ductwork in these buildings cannot supply the quantities of air required by current mechanical standards. The university needs to replace the heat plant and air handling equipment for these facilities prior to a catastrophic failure resulting in an emergency replacement. Select electrical and mechanical upgrades will also be completed in the Goodrich Building, Brockel Building, Ward Building, Campus Warehouse, Petroleum Training Service Center, and Student Housing.

UAF Community and Technical College (CTC): Center Renewal (code corrections and emergency lighting) and University Park Restroom Renovation

Request: \$945.0

UAF's Community and Technical College provide high-demand workforce development degrees and training programs across the Interior of Alaska. Programs within the college such as emergency services training and airframe and powerplant certification quickly prepare students for immediate placement in skilled trades. The college's facilities are mostly comprised of aged buildings given to the University and repurposed for these programs. Deferred maintenance was transferred with most of these assets and the facilities suffer from functional obsolescence.

- **University Park Restroom Renovation:** The restrooms at the University Park Building are of 1957 vintage, installed when the building was an elementary school. The restrooms are in poor condition and do not provide proper sanitation facilities for the users. The project will completely gut and renovate the restrooms to bring them up to current standards and code and make them fully operational. The upgrade will replace plumbing, water closets, sinks, old convection heating terminal units, tiles, and restroom accessories and create ADA accessible stalls.
- **Community & Technical College Center:** The CTC Center in Fairbanks has been renovated in multiple phases over the last 15 years, converting the space from an old courthouse to a modern technical college for the community. One of the final phases of renovation is a code corrections project for the east stairwell. The work will include correcting stair treat height and depth for consistency, enclosing the risers, updating the emergency lighting and exit signs, and updating the finishes.

UAA KPC-KBC Campus building Renewal projects (safety, security, ADA access, energy efficiency)

Request: \$131.8

This project prioritizes mechanical & electrical systems in the Bayview Hall facility, approximately 7,400 GSF, which serves the Homer campus as a classroom and faculty office building. Other critical campus needs include energy improvement LED upgrades, ADA access and safety improvements and security upgrades. These priorities improve student safety and regulatory compliance and lower energy usage.

FY24 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

UAA Kerttula Building, Ortner Warehouse, and Machetanz Building boilers (MSC Campus Renewal)

Request: \$2,107.4

This project will address campus-wide deferred maintenance issues and renewal and renovation requirements for the Mat-Su campus. The buildings on the Mat-Su campus are 15-40 years old and their roofs need to be replaced. With several of MSC's buildings reaching 35-40 years of age, it is prudent to plan for the replacement of building components during the next few years. Boilers systems in this region are an essential component. The boilers not already updated this summer range in age from 1979 to 1994. The boiler upgrades (with the oldest first) would allow for greater cost savings through energy efficiency as 80% efficiency boilers would be replaced with 95% efficiency boilers. The original doors and hardware are still in use across the campus with some units being over 40 years old and heavily used. As these units wear, energy leaks are created within the buildings which increase the cost of operation and wear on other systems, resulting in an unbalanced environment within the buildings. Additionally, the failure of the hardware increases safety and security risks for the university which can result in substantial liability. Technology advancements increase the energy efficiency and security of these units, which will reduce expenses for the university. This request includes boilers and select related systems in the Kerttula Building, Ortner Warehouse, and Machetanz Building. Other select priority projects in Snodgrass Hall and the Okeson Building.

UAA KOC Campus Renewal (roofing, security, safety, and accessibility)

Request Total: \$843.5

The buildings on the Kodiak Campus were constructed in the early to mid-1970s. The campus requires safety and security upgrades, modernized doors, and improve ADA accessibility. The original windows suffer from worn seals that cause air infiltration. The mechanical and electrical systems need renewal to meet the increased student demand and increased use of new technology. Roofing repairs are required, specifically for the campus center. Parking lot lighting repair and upgrades are required. Improvements to layout and design will increase space efficiency and allow for the replacement of worn and outdated fixed equipment. This request is for identified priority projects in the Benson Building, Vocational Technology Building, Adult Learning Center, and supporting infrastructure.

UASO Butrovich Lighting Efficiency Upgrades

Request: \$200.0

The Butrovich building was constructed in 1988 and is at a point where many of its building components are reaching their life cycle end. Over the next five to ten years many of the main mechanical systems will come due for replacement or refurbishing.

- Lighting upgrades, including Lutron controls and re-ballast parabolic lighting fixtures, are needed in the whole building - Approx. 800 fixtures. Ballast are at end of life. Replace artwork lighting fixtures with LEDs.

Capital Budget References

UA 10-Year Capital Improvement Plan Project Descriptions

Facilities Deferred Maintenance (DM) and Renewal and Repurposing (R&R)

FY25-FY26 (GF: \$100,000.0, NGF: \$0.0, Total: \$100,000.0)

FY27-FY28 (GF: \$100,000.0, NGF: \$0.0, Total: \$100,000.0)

FY29-FY33 (GF: \$150,000.0, NGF: \$0.0, Total: \$150,000.0)

The University of Alaska (UA) is Alaska's system for higher education and a world leader in arctic and climate change research. UA is responsible for maintaining facilities and infrastructure across the state, with nearly 400 facilities totaling 7.9 million gross square feet, an average age of 35.2 years, an inflation-adjusted value of \$4.9 billion, and a deferred maintenance/renewal & repurposing (DM/R&R) backlog of over \$1.5 billion.

Due to many years of unfunded deferral of critical capital projects, there is an increasing risk and evidence of building closures. There have been numerous unplanned closures causing significant hardship on student learning and research activities, as well as the associated lost productivity of university students, faculty/researchers, and staff.

Major Maintenance and Renewal Projects

UAA Alaska Native Success Initiative

FY25-FY26 (GF: \$4,000.0, NGF: \$0.0, Total: \$4,000.0)

This project is in direct support of the Alaska Native Success initiative by funding critical priorities with respect to place names, wayfinding, native art, NSS gathering space within the SU, and placing a front door for the AKNS classroom planned at Social Sciences Building (SSB). In addition, this project would support the relocation of the Native ARTS Studio current operated out of a temporary portable facility into the Fine Arts Building (ARTS) supporting growth through renovation, increasing community engagement within the ARTS building, and providing a premier location for the Native Arts Program to operate out of.

UAA Student Success Center (Welcome Center Renovation)

FY25-FY26 (GF: \$75,000.0, NGF: \$0.0, Total: \$75,000.0)

This project in a re-envisioning of three facilities that were historically programmed as stand-alone buildings, the Student Support Services and Student Union Building, the Alumni Relations and Visitor Center, and the UAA Community Arena and Recreational Facility. This aligns with our goal of growth through renovation by renovating and rebuilding existing space in support of student success. The Student Union, the Seawolf Sports Complex, and the Enrollment Services Center are facilities that operate as the front door to our campus. These buildings are located in the campus core zone. The campus core sits within Chester Creek and is surrounded entirely by adjacent campus academic zones. Due to this proximity, this zone is the primary hub and connector for the campus as a whole and serves as a recreational and extra-curricular hub for students. This zone is the heart of UAA as it is a place of gathering and a primary interface between academics, student life and visitors.

UAA Seawolf Sports Complex Ice Rink Renovations

FY25-FY26 (GF: \$20,000.0, NGF: \$50,000.0, Total: \$70,00.0)

This project would renovate and/or support the construction of a Division 1 hockey host site and is envisioned to be the premier hockey arena in Anchorage and would be positioned to host youth, high school, and adult tournaments. The existing Seawolf Sports Complex (SSC) was originally constructed in the 1970s as a recreation facility for the community college and today totals approximately 107,000 gross square feet and includes the following: performance gymnasium (approximately 950 seats), ice sheet (approximately 800 seats), athletic fitness, hockey offices and team locker rooms, among other amenities. This project would seek to meet NCAA Division 1 conference requirements by expanding the hockey rink seating capacity from 800 seats to a range of 2000 to 3500 seats, upgrade the concessions, providing advanced video production and sound system, creating a new front door, adding additional bathrooms, and add up to 4 new locker rooms to allow for tournament games.

UA 10-Year Capital Improvement Plan Project Descriptions

UAA Aviation Building: Welding & Non-destructive Testing Renovation

FY25-FY26 (GF: \$5,000.0, NGF: \$0.0, Total: \$5,000.0)

This project supports student success, streamlines programmatic delivery, and promotes growth through renovation by seeking to consolidate two welding programs and non-destructive testing by relocating the team out of the Gordon Hartlieb Hall (GHH) and into the Aviation Facility.

UAA Fine Arts Ceramics Renovation

FY25-FY26 (GF: \$5,000.0, NGF: \$0.0, Total: \$5,000.0)

This project supports student success and improves community engagement by renovating existing space within the fine arts building in order to co-locate two separate ceramic programs currently split between two facilities the Gordon Hartlieb Hall (GHH) and the Fine Arts Building (ARTS). Located in GHH the wheel throwing program is an in-demand fine arts program that brings community members to our campus, their existing location is in the back of service area in a building that also hosts facilities. Relocation of this program into ARTS would improve the vibrancy of the ARTS building, increase community engagement, allow the program to be co-located with peers, and improve existing campus space.

UAA Exterior Safe Access and Circulation Improvements

FY25-FY26 (GF: \$3,156.0, NGF: \$0.0, Total: \$3,156.0)

FY27-FY28 (GF: \$4,000.0, NGF: \$0.0, Total: \$4,000.0)

FY29-FY33 (GF: \$4,844.0, NGF: \$0.0, Total: \$4,844.0)

This project will improve safe access and circulation for non-motorized and motorized needs through Anchorage's main campus. Better identifying safe routes for motorized and non-motorized traffic is increasingly vital. This project will assist in peak traffic congestion and improve safety for all campus users, with a prioritization of the intersection of West Campus Drive, Seawolf Drive, Mallard Lane, and Career Center Drive.

UAA Fine Arts Building Gallery Modernization

FY27-FY28 (GF: \$100.0, NGF: \$0.0, Total: \$100.0)

FY29-FY33 (GF: \$4,900.0, NGF: \$0.0, Total: \$4,900.0)

This project seeks to complete a significant renovation of the common area in the Fine Arts Building (ARTS) to increase vibrancy and better celebrate the arts in the facility.

UAA GHH Consolidation of Campus Administrative Support

FY27-FY28 (GF: \$200.0, NGF: \$0.0, Total: \$200.0)

FY29-FY33 (GF: \$1,800.0, NGF: \$0.0, Total: \$1,800.0)

The project supports student success and growth through renovation by re-envisioning a prior capital project titled UAA's Physical Plant and Warehouse Facilities by renovating the Gordon Hartlieb Hall (GHH) to support relocation of GSS out of high priority space within the campus core and consolidates off campus warehousing functions for facilities and GSS into GHH.

UAA Cuddy Hall Renovation

FY29-FY33 (GF: \$12,000.0, NGF: \$0.0, Total: \$12,000.0)

This project focuses on growth through renovation by modernizing the Lucy Cuddy Hall in support of UAA's Aspirations of putting students first, embracing our role as a trusted and respected community partner, and accelerating excellence through continuous improvement. This project supports the Culinary Arts program by modernizing the instructional kitchen to improve the learning environment and align with industry best practices; renovating Lucy's our campus restaurant operated by our student in the culinary arts program; making improvements to our bakery; optimizing existing space to support additional offices for faculty and staff; and improving our event hall to provide of use study space,

UA 10-Year Capital Improvement Plan Project Descriptions

accommodate events to include keynote speakers, plated dinners/weddings, and other events welcoming the community onto our campus.

UAA Child Welfare Academy Relocation

FY29-FY33 (GF: \$3,000.0, NGF: \$0.0, Total: \$3,000.0)

This project relocates the Child Welfare Academy into the University Center which allows for program synergy with the Office of Children's Services. With the increased need in the community, this project will increase education and services promoting child welfare and social services. The co-location will provide improved services and the ability to provide growth in this workforce development health sector.

UAA Residential Campus Modernization

FY29-FY33 (GF: \$109,000.0, NGF: \$0.0, Total: \$109,000.0)

This project will modernize our residential campus in support of student success, including expanding opportunities for family housing, public partnerships, child care, or even programmatic consideration around rightsizing the student housing experience. The project could be phased to strategically address need.

UAF STEM Lab Renewal for Alaska Industry Initiatives: Duckering, Arctic Health Center, Bunnell

FY25-FY26 (GF: \$5,500.0, NGF: \$0.0, Total: \$5,500.0)

Emerging STEM programs, mainly in engineering, mariculture, and natural resource development have expanded in enrollment and research capacity. The program expansion has outgrown the available modern laboratory spaces in the Duckering, Arctic Health and Bunnell Buildings. The project will renovate older labs for new modern STEM needs, leveraging existing space in the building to offer expanded opportunities in STEM. The work will also tie into the UAF middle college STEM offerings.

UAF Troth Yeddha' Campus Wayfinding Renewal

FY25-FY26 (GF: \$2,150.0, NGF: \$0.0, Total: \$2,150.0)

The majority of wayfinding signage and regulatory traffic signage has aged out and no longer provides accurate navigation for the Troth Yeddha' campus in Fairbanks. Most signage predates significant campus facility changes and a recent fire code required building street address mandate. The project will replace older signage with new modern materials, consistent with adopted traffic regulations, and with wording that reflects current campus priorities. Work will also add signs to provide better clarification for visitors and the use of modern mobile device mapping apps. Where practical, signage will be developed jointly with indigenous languages in alignment with the Alaska Native Success Initiative.

UAF Patty Center Revitalization for Student Recreation and Athletics

FY25-FY26 (GF: \$40,608.0, NGF: \$0.0, Total: \$40,608.0)

The Patty Center is home to the Alaska Nanooks athletics programs, offering NCAA sports venues for swimming, rifle, basketball, and volleyball. The building also serves a large variety of community programs in the Interior including competitive swim and high-school basketball tournaments. The 1950s facility hasn't been revitalized since its construction and has significant accumulated deferred renewal and functional obsolescence. This project will address the deferred renewal while modernizing the student, athlete, and community experience by renewing the gymnasium, rifle range, locker rooms, and offices. The leaky exterior will be replaced with modern, energy-efficient insulated metal panels, and a new roof will be installed. A canopy will be constructed to cover the walking deck at the main entry. Interior spaces will be updated to current codes and standards with better ventilation, lighting, and durable finishes. The rifle range will also be replaced, allowing for better capture of the spent ammunition and updating the scoring system in a manner that is consistent with NCAA rules and the Nanook Rifle team's success at the national level. This improvement is vital to student recruitment, retention, safety, and UAF community engagement, as these facilities support campus and community events regularly and must be renovated to ensure continued use.

UA 10-Year Capital Improvement Plan Project Descriptions

UAF Elvey Building Renewal and Repurpose

FY25-FY26 (GF: \$86,000.0, NGF: \$0.0, Total: \$86,000.0)

As part of the first phases of the West Ridge Deferred Renewal Plan, the Elvey Building will be completely renovated. The Elvey Building is home to the burgeoning Alaska Satellite Facility, Alaska Earthquake Center, Alaska Volcano Observatory, and multiple academic programs related to geophysics and atmospheric sciences. The Elvey building tower (excludes the annex) will be renovated as the area has accumulated a significant backlog of maintenance with the original finishes and equipment, is functionally obsolete, and no longer supports critical research missions. Work will demolish all walls and ceilings, back to structure, upgrade the building for current seismic codes, and rebuild the space to current or best-fit use. A large electrical room will be relocated to a better location, free from roof leaks. New work will provide updated finishes, code compliance, new restrooms, increased ventilation, and better lighting and electrical distribution. The project will also increase the thermal performance of the exterior wall and roof, improving energy efficiency and reducing operating cost. The work includes the renewal of major mechanical/electrical systems, seismic bracing upgrades, and a new exterior envelope and roof. This facility is a central component of the UAF research enterprise and must be renovated to ensure continued research growth and adequate support, both in terms of physical space and connectivity/network and other needed electrical improvements for modern research needs.

UAF Ben Eielson Building Renewal and Energy Efficiency

FY25-FY26 (GF: \$23,500.0, NGF: \$0.0, Total: \$23,500.0)

Eielson is one of two buildings built before the 1940s still in operation at the UAF Troth Yeddha' campus. The building lacks the required amenities for a modern university student-facing facility. While maintaining the historic nature of the building, the renewal project will revitalize and renew exterior and interior finishes, install a code-required ventilation system, replace the heating system, and update electrical wiring and lighting throughout. The envelope will be updated with additional insulation and a vapor barrier, new windows, and a new roof. Functional obsolescence created by outdated floor plan layouts will be eliminated, consistent with the needs of the user groups relocating into Eielson after completion of the Rasmuson Library Student Success Center. FY24 Design, FY26 Construction.

UAF Fine Arts: Theater Wing Major Renewal

FY25-FY26 (GF: \$20,000.0, NGF: \$0.0, Total: \$20,000.0)

The project is a major renovation of the Salisbury Theater. It will address major building code and accessibility deficiencies, create new, smaller learning spaces appropriate for today's teaching methods and replace worn-out mechanical and electrical equipment. The resulting variety of smaller learning and convening spaces will serve all of UAF and not just the Theater Department and College of Liberal Arts (CLA). The remodel will create a nominal 200 to 250-seat smart auditorium and three 1,000 gsf to 2,000 gsf open, level-floor rooms useful for meeting, classroom or movement activities, including the lower level.

UAF Arctic Health Research Center Major Renewal and Repurpose

FY27-FY28 (GF: \$69,500.0, NGF: \$0.0, Total: \$69,500.0)

Major renewal, space repurposing, and code upgrades on the center core of the research and lab facility. Portions of the building have been renovated leaving the west wing center core still needing repair, renewal, seismic updates and corrections to laboratory functional obsolescence.

UAF O'Neill Building Renewal and Repurpose

FY27-FY28 (GF: \$45,250.0, NGF: \$0.0, Total: \$45,250.0)

Major Renewal, space repurposing, and code upgrades for the entire building. Work will include seismic code corrections, ADA upgrades, energy upgrades and new exterior envelope. The building will be repurposed to offices, classrooms and support spaces to reduce the total renovation cost.

UA 10-Year Capital Improvement Plan Project Descriptions

UAS Soboleff Building Modernization

FY25-FY26 (GF: \$6,000.0, NGF: \$0.0, Total: \$6,000.0)

The Soboleff Building was the third building on the Juneau Campus. It was constructed in 1973 and included an auto shop for the Vocational Technical program on the first floor and classrooms and faculty offices on the upper floor. Currently, the ceramics class and native arts wood carving classes are held on the first floor. Limited renovations have been made to these spaces to accommodate these new programs, giving the spaces a 1970s feel. The upper floor was renovated in the 1980s to accommodate faculty offices. These offices, many of which are windowless, were constructed using a pin-together wall system and are no longer fitting for a professional higher education setting.

This project will remodel the existing building to improve the use of space, extend building life, and match the professional atmosphere of the recent remodels of the adjacent Whitehead and Hendrickson buildings. The existing plumbing, heating, ventilation, and electrical systems will be replaced using highly efficient equipment that is expected to achieve a 30% energy reduction for this building.

UAS Sitka Renovation for NW Coast Arts, Science Lab Mariculture and Student Services areas

FY25-FY26 (GF: \$6,000.0, NGF: \$0.0, Total: \$6,000.0)

Sitka campus is set in a renovated WWII airplane hangar. The past renovations are more than 20 years old and the needs of university programs are no longer being met with this space. This project will renovate spaces for the Northwest Coast Arts, Science Lab, Mariculture programs and the student services area.

UAS Novatney Lower Floor Renovation

FY25-FY26 (GF: \$300.0, NGF: \$0.0, Total: \$300.0)

FY27-FY28 (GF: \$2,700.0, NGF: \$0.0, Total: \$2,700.0)

The lower floor of the Novatney building has not been updated in more than 40 years. It reflects a time when society accepted narrow hallways and no windows. This project will renovate the lower floor by opening up common spaces, installing more windows and glass walls to meet the right-to-light standard, Also installing more energy efficient lighting and heating systems.

UAS Egan Library / Cyril George Indigenous Knowledge Center (CGiKC)

FY25-FY26 (GF: \$0.0, NGF: \$500.0, Total: \$500.0)

FY27-FY28 (GF: \$0.0, NGF: \$900.0, Total: \$900.0)

FY29-FY33 (GF: \$0.0, NGF: \$1,100.0, Total: \$1,100.0)

More UAS students enrolled in 2021 Introduction to Alaska Native Studies, ANS101, than any other class offered at UAS. This project promotes student enrollment by reinforcing our students' enthusiasm for learning Alaska Native culture. Indigenous languages of Southeast Alaska - Tlingit, Haida and Tsimshian are critically endangered with fewer than 200 fluent speakers. This project aims to create an Indigenous Knowledge Center to:

1. Centralize and promote the quality and value of Alaska Native/Indigenous knowledge,
2. Develop an Elders and Indigenous Scholars in Residence program;
3. Enhance access and delivery of hybrid courses in AK Native Languages to preserve the continuity of endangered indigenous languages.

The creation of the Cyril George Indigenous Knowledge Center (CGiKC) will focus around a primary architectural space, created sympathetically within the existing structure of the Egan Library. It will incorporate stacks for the primary book and audio/video collection, as well as provide a central socialization/conversation space and designated display space for Northwest Coast Art. This space will have the capacity for hosting and broadcasting small events (~30 seats) and function as the conduit or entry to other associated spaces, so that overall cohesion and identity to the center is clearly established. Design concepts for the facilities include the following components:

1. Language Classroom and related spaces. A mid-size (20-30 seats) classroom for language instruction purposes fully outfitted to support a sophisticated blended/hybrid environment for study of Alaska Native Languages. An adjacent gathering space with kitchen for cultural food preparation, event staging, storage, pantry, and a small break area with table.

UA 10-Year Capital Improvement Plan Project Descriptions

2. Instructional Technology Storage to provide a secure space for electronic and media equipment specific to language instruction.
3. Private Audio/Study Labs: Two small spaces, acoustically separated from adjoining spaces, but configured to allow visual control and connectivity to be used for language and oral history recording as well as for work with elders and students.

UAS Alaska College of Education Building Remodel/Replace

FY25-FY26 (GF: \$200.0, NGF: \$0.0, Total: \$200.0)

FY27-FY28 (GF: \$800.0, NGF: \$0.0, Total: \$800.0)

FY29-FY33 (GF: \$14,000.0, NGF: \$0.0, Total: \$14,000.0)

UA designated that the Alaska College of Education will be directed from the UAS campus. The current proposal is house this new college in the Hendrickson Annex building, which currently houses the UAS department of education. The Hendrickson building is an old single-story building built in the 80s as a temporary facility and is not of institutional quality. This project will first investigate the feasibility of brining this building up to current university standards compared to constructing a new facility. The project will then follow the findings and construct a modern facility that will be able to meet the needs of the UA Alaska College of Education.

UAS Sitka Hangar Historic Renovation

FY25-FY26 (GF: \$100.0, NGF: \$0.0, Total: \$100.0)

FY27-FY28 (GF: \$300.0, NGF: \$0.0, Total: \$300.0)

FY29-FY33 (GF: \$10,600.0, NGF: \$0.0, Total: \$10,600.0)

The Sitka Campus resides in a WWII aircraft hangar. Unfortunately, previous building designers have ignored its historical and architectural value and have created a building inside a warehouse environment. This warehouse environment is not conducive to higher education teaching or enticing students or faculty to work in this space. This project will renovate the Sitka hangar to celebrate its history and turn the environment into one more in line with higher education learning. Initial indications this will include opening up the center of the hangar to let in light to the inner offices and classrooms while providing a space to display WWII historical items that may include an airplane. It is recommended that this project run in coordination with the projects to construct new facilities for Northwest coast arts, maritime program and innovative space facilities to ensure that the whole campus space is designed and used efficiently.

UAS Banfield Hall Conversion

FY29-FY33 (GF: \$1,500.0, NGF: \$1,000.0, Total: \$2,500.0)

Banfield Hall houses our second-year student housing. This residential hall is more than 20 years old and much of the systems and layout have reached the end of their useful life. Anticipated improvements include toilet room finishes and fixtures. A faculty-in-residence suite will be added. Kitchens will be upgraded and expanded. Room fixtures will be refurnished and necessary technology and lighting upgrades will take place. New plumbing chases will be constructed vertically through the three resident floors.

New Construction - Academic Facilities

UAA ANSEP Acceleration Building

FY27-FY28 (GF: \$900.0, NGF: \$0.0, Total: \$900.0)

FY29-FY33 (GF: \$8,100.0, NGF: \$0.0, Total: \$8,100.0)

This project supports student success and the ongoing programmatic growth of the Alaska Native Science & Engineering Program (ANSEP) Acceleration program. This project could be accommodated through either a renovation of existing space or the construction of a new facility. This would relocate ANSEP Acceleration out of the University Lake Annex (ULA), reducing UAA's leasable footprint, and allowing UA Land Management the opportunity to lease the facilities to other community partners.

UA 10-Year Capital Improvement Plan Project Descriptions

UAA ADT Diesel Lab Expansion

FY27-FY28 (GF: \$5,000.0, NGF: \$0.0, Total: \$5,000.0)

This is proposed as an expansion of an existing facility or a new facility to support the Diesel technology and training. A new facility would allow the Auto program necessary growth for workforce training of the Auto Diesel program itself with expansion to support the Electric Vehicle market. Furthermore, this project would meet evolving accreditation requirements.

UAA Health Sciences Building Phase 2 (Including Parking Structure)

FY29-FY33 (GF: \$164,000.0, NGF: \$0.0, Total: \$164,000.0)

UAA is uniquely situated, surrounded by two of the largest hospital complexes in Alaska. As the U-Med District grows, partnerships with neighboring institutions continue to emerge. For the past decade, the University has been in discussion with neighboring institutions about partnering for joint-use health care training facilities. In addition, the demand for health care professionals throughout the state has resulted in a call for increased course and program offerings that UAA is unable to meet because of a lack of facilities. The Health Sciences Building (HSB) Phase II facility is anticipated as an 99,500 gsf building that will house selected health science programs and increase collaboration potential with other U-Med partners. The facility will connect to the Phase 1 Building via enclosed walkways and will feature instructional classrooms capable of distance delivery, clinical and instructional labs, and program support space. To optimize utilization of the two buildings, approximately 3,480 gsf of the Phase 1 Building will be renovated to provide access to the Phase 2 commons, and renovation of the WWAMI conference room to provide access to the third floor WWAMI conference offices.

UAA Kodiak Career Center

FY25 (GF: \$2,000.0, NGF: \$0.0, Total: \$2,000.0)

Workforce development project which would support the following sectors: Automotive, agriculture, and industrial arts. Furthermore, this project will allow the Kodiak College the opportunity to better leverage existing space, invite the community into our campus, and will also improve our ability to support welding programs and vacate off-campus lease space. Project scope would include the development of available acreage on the Kodiak campus to construction a metal warehouse facility on the campus proper.

UAA KPC-KBC Technical Career Center

FY27-FY28 (GF: \$1,100.0, NGF: \$0.0, Total: \$1,100.0)

FY29-FY33 (GF: \$9,300.0, NGF: \$0.0, Total: \$9,300.0)

In 2010, the Kenai Peninsula College master plan identified the need for a technical career training facility on the Kachemak Bay Campus. This building would provide training to local students in high demand technical jobs supporting the maritime industry and construction trades.

UAA PWSC Vocational Technology Center

FY27-FY28 (GF: \$2,500.0, NGF: \$0.0, Total: \$2,500.0)

FY29-FY33 (GF: \$22,500.0, NGF: \$0.0, Total: \$22,500.0)

This project will help provide skilled workers at local communities and will allow for partnerships with the local school district. Funding is needed to construct new facility or can be used to purchase and renovate existing facility. PWSC has an ongoing and expanding Vocational Technology training program and are currently renting space to run this program. Long-term lease for the current millwright shop has strong potential to not be renewed by the owner, therefore, the college must identify alternative space to continue and expand industry-Supporting vocational programs. The PWSC millwright program is existed since 2009. Development of the welding, refrigeration & HVAC, and construction trades fields to be offered as programs rotated on a cyclic basis would provide Valdez and the surrounding communities with education and training in skills supporting the local maritime and mining industries. Some preliminary discussions have taken place presenting two options for vocational space. First option would be dual use of the warehouse house facility and expansion/infill between the warehouse and student housing units based on program needs. Second option would be to

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develop a collaborative, joint venture solution with the local school district to build a shared facility with Valdez high school. As funding is provided for this programmatic need, the administration should assess the best option available to suit the college and community's needs.

UAA MSC Middle College & ANSEP Facility

FY27-FY28 (GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)

FY29-FY33 (GF: \$19,000.0, NGF: \$0.0, Total: \$19,000.0)

Supports the construction of a new facility at the Mat-su Campus in support of Alaska Native Science & Engineering Program (ANSEP) and the Middle College program.

UAF Arctic Emergency Services Workforce Center of Excellence

FY25-FY26 (GF: \$53,000.0, NGF: \$0.0, Total: \$53,000.0)

The proposed Arctic Emergency Services Workforce Center of Excellence will provide space to meet the current demand and future growth of the emergency services programs and continue to fulfill the University's missions and goals of high demand workforce development in emergency services. Combined educational and workforce development programs offered through UAF's Community and Technical College (CTC) and College of Rural and Community Development (CRCD) urgently need a new facility and instructors to meet the workforce demand. The CTC emergency services academies, credentialing, degree programs, and occupational endorsements, along with UAF's baccalaureate security and emergency management program, provide a solid educational foundation for emergency services; however, additional support is required to increase the number of students who are familiar with the latest equipment and processes, are trained in real-world scenarios, and engage in continuing education, refresher courses, and certifications.

The replacement facility is envisioned as a living laboratory for student emergency responders; attending classes and labs adjacent to a fully functional emergency services station. The facility will contain apparatus bays and support spaces for fire and EMS, firefighter/medic living quarters for on-duty members, and training labs and classrooms for emergency services.

- Education and training facilities will allow UAF to meet the state's need for high-demand workforce development and training for first responders and other high-demand job areas, especially in a post-pandemic environment where healthcare and emergency responders have been lacking.
- Alaska needs an in-state destination for job candidates and personnel from rural Alaska to receive safety services training - agencies in rural Alaska are already reaching out to UAF to improve ways to receive training.
- Alaska's major career emergency services (fire and EMS) departments in Anchorage, Fairbanks, Soldotna, and Juneau will hire between 190 and 220 firefighters and paramedics into existing jobs over the next five years. This number could be much higher. The Anchorage Fire Department, for example, has 125 employees eligible to retire in 2025 alone. Training Alaskans to do this work is critical and needs action now.
- New, modern indoor space providing training labs and classrooms for credentialing, certificates, and degree programs, as well as apparatus bays and support spaces for fire, EMS, and law enforcement operations complete with high technology simulation labs, will meet the current and projected industry demand for a trained emergency services workforce in Alaska.
- Maintenance of a highly trained, skilled workforce is an ongoing process that requires not just a facility but also the resources for instructors to remain relevant in science and technology.
- UAF's Wildland Fire Crew is a cooperative agreement with the State of Alaska. The crew provides on-the-job training to students enrolled in the wildland fire science program delivered through the Interior Alaska Campus within CRCD. While providing training, the crew adds to the state's fire suppression resources. Revitalizing this program and leveraging UAF's CTC programs through this facility and program expansion will be a great contribution to workforce development and will provide certifications, licensing, and degree programs to build Alaska's emergency services workforce.

UAF Agricultural and Forestry Station Outreach Laboratory

FY25-FY26 (GF: \$10,000.0, NGF: \$0.0, Total: \$10,000.0)

The proposed Outreach Laboratory will replace 5 aged-out buildings that provide programmatic delivery of agricultural sciences to Alaskans. The building will provide new space for existing staff at the Fairbanks Experimental Farm and UAF

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Cooperative Extension Service a classroom/classlab, and a headhouse to support emerging and experimental agriculture science including OneHealth concepts for human health and wellbeing, animal health, and environmental health including food security systems/security.

UAF Troth Yeddha' Indigenous Studies Center: Park & Building

FY25-FY26 (GF: \$0.0, NGF: \$40,000.0, Total: \$40,000.0)

The University of Alaska Fairbanks (UAF) is seeking to build a new Indigenous Studies Center (ISC) and surrounding park on the Troth Yeddha' campus in Fairbanks. The proposed facility is an essential pillar of the Alaska Native Success Initiative (ANSI) that will solidify UAF's position as a global leader in Alaska Native and Indigenous Studies. Named after a wild potato plant traditionally harvested in the area called "troth," the Troth ISC is a key strategy for the future growth and expansion of Alaska Native programs and Indigenous research in the Arctic.

UAF Community & Technical College (CTC) Aviation/Hangar Addition

FY29-FY33 (GF: \$13,000.0, NGF: \$0.0, Total: \$13,000.0)

The UAF CTC Aviation Program is housed in a small hangar purchased in 2012. The facility is undersized for program offerings and enrollment. Construct an 18,000 square foot addition to the CTC Hangar to support the growing aviation program.

UAF Kuskokwim Campus Yup'ik Cultural Learning Center Expansion

FY29-FY33 (GF: \$7,200.0, NGF: \$0.0, Total: \$7,200.0)

The UAF Kuskokwim Campus (KUC) envisions a 3,300 square foot expansion onto the front of this facility. Half would be a library expansion and the remaining half would be for a gift shop, offices, and conference room. This expansion would promote the university consortium collection.

UAS TEC Reincorporation Phase 1: Wood Shop, Construction Shop, NW Coast Arts

FY25-FY26 (GF: \$14,000.0, NGF: \$000.0, Total: \$14,000.0)

The UAS 2022 Campus Masterplan found that students, staff and faculty would be more successful if the Technical Education Center (TEC) was located on the main campus. Currently the 20-mile separation presents significant challenges for students who want to take both trades classes and education classes. This project will relocate all of the classes held at the TEC to the main Juneau campus. The first phase will construct new building for the wood shop, construction shop classes. It will also include space for the North West Coast Arts classes currently being taught in the Sobleff building.

UAS Lakeside Access Improvements - Phase 1 - Lakeside Classroom

FY25-FY26 (GF: \$500.0, NGF: \$500.0, Total: \$1,000.0)

The purpose of this project is to create a strong connection between Auke Lake and the Juneau campus by improving visual, physical, and educational connections with Auke Lake. The need for this project is to take advantage of the excellent resources Auke Lake offers for educational engagement, cultural knowledge, recreational activities, and marketing opportunities. Elements of Phase 1 include: A lakeside classroom to support lakeside educational venues as well as year-round recreational opportunities and social space for UAS students, staff and the community.

UAS Ketchikan Maritime Training Center Expansion

FY25-FY26 (GF: \$10,000.0, NGF: \$0.0, Total: \$10,000.0)

This project will expand the Maritime Training Center in Ketchikan by adding a three-story structure to the existing building to accommodate expanding administrative and academic need.

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UAS TEC Reincorporation Phase 2: Welding Lab & Nursing

FY25-FY26 (GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)

FY27-FY28 (GF: \$10,000.0, NGF: \$0.0, Total: \$10,000.0)

The UAS 2022 Campus Masterplan found that students, staff and faculty would be more successful if the Technical Education Center (TEC) was located on the main campus. Currently the 20-mile separation presents significant challenges for students who want to take both trades classes and education classes. This project will relocate all of the classes held at the TEC to the main Juneau campus. The second phase will construct new building for the welding lab and nursing lab.

UAS Sitka Science / Mariculture / Innovation Center

FY27-FY28 (GF: \$1,000.0, NGF: 0.0, Total: \$1,000.0)

FY29-FY33 (GF: \$4,000.0, NGF: \$5,000.0, Total: \$9,000.0)

This project will construct a new facility that will enable the Science and Mariculture programs in Sitka expand and broaden the educational format of these programs. It will also provide a space for an innovation center.

UAS Sitka Northwest Coast Arts Facility

FY29-FY33 (GF: \$5,000.0, NGF: \$0.0, Total: \$5,000.0)

This project will construct a new building for the Northwest Coast Arts program on the Sitka campus.

UAS Ketchikan Paul Building Renovation / Replacement

FY29-FY33 (GF: \$22,000.0, NGF: \$0.0, Total: \$22,000.0)

The Paul Building was designed as a split-level building with five separate levels. Access to the building is from levels 2 and 4. Classrooms and offices are on levels 1, 3 and 5. A central elevator was added after construction but it is only accessible to levels 1-4. This project will investigate two options presented in the campus master plan and then construct the option determined to provide the best accessibility, efficient and environment for student success. Option A proposes to a complete remodel of the building to eliminate all of the split-levels and provide an interior connection the Ziegler building. Option B proposes remove the existing building and replace it with a new building adjacent to the Ziegler building.

UAS TEC Reincorporation Phase 3: Mining & Auto

FY29-FY33 (GF: \$15,000.0, NGF: \$0.0, Total: \$15,000.0)

The UAS 2022 Campus Masterplan found that students, staff and faculty would be more successful if the Technical Education Center (TEC) was located on the main campus. Currently the 20-mile separation presents significant challenges for students who want to take both trades classes and education classes. This project will relocate all of the classes held at the TEC to the main Juneau campus. The third phase will construct new building for the mining and auto programs.

New Construction - Research Facilities

UAF Science, Teaching & Research Building

FY27-FY28 (GF: \$3,000.0, NGF: \$0.0, Total: \$3,000.0)

FY29-FY33 (GF: \$97,000.0, NGF: \$0.0, Total: \$97,000.0)

This project will construct approximately 100,000 square feet of new research and academic laboratory and classroom space to fill the critical needs of Fisheries and Ocean Sciences, Natural Resources, and the UA Museum of the North programs. The facility will be constructed with labs, offices, classrooms and required infrastructure. Initial funding will provide concept designs and estimates. The building will replace laboratory space in out-of-date buildings that cannot serve modern teaching and research in these disciplines. The project will also substantially reduce the deferred maintenance backlog in these existing buildings (O'Neill, Irving 1 and 2, and Arctic Health Research Building) and allow for the removal of one of these facilities (Irving 2) from UAF's Facility Inventory.

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UAF Energy Test Laboratory Annex

FY25-FY26 (GF: \$0.0, NGF: \$6,500.0, Total \$6,500.0)

The Energy Technology Facility (ETF) Annex is envisioned as a flexible, 3,750 square foot space to expand ACEP's ability to test energy technologies and systems that, if successful, will reduce costs to benefit Alaska communities and industries. By testing new technologies in the lab before field deployment, technologies can be hardened for the Alaska environment, greatly reducing potential issues once fully deployed. ACEP's energy research expenditures have undergone significant growth in recent years. Along with this growth, the physical footprints of the research programs that occupy the ETF space have grown to fill existing space. The ETF can no longer accommodate further research infrastructure or expansion of research breadth

UAF Toolik Research Field Station: Classroom

FY25-FY27 (GF: \$0.0, NGF: \$3,000.0, Total: \$3,000.0)

Toolik Field Station (TFS) is a world-renowned research facility with hundreds of scientific researchers in residence during the busy summer season. None of the existing facilities are suitable for use as a classroom and the addition of a classroom will allow seminars, small conferences and undergraduate field classes at TFS. This will add educational elements to the TFS mission and strengthen both the graduate and undergraduate research programs at UAF.

New Construction - Student Life (Housing), Support, and Other Facilities

UAA MSC Recreation Facility

FY29-FY33 (GF: \$19,000.0, NGF: \$0.0, Total: \$19,000.0)

Mat-Su College continues to see growing student enrollments with a change in the student demographics toward the majority of students in the 18-26 age range. This has created a greater demand for student recreational facilities as many of these students wish to continue their athletic interests as well as engage in activities, both organized and self-directed, to enhance wellness. Such a facility would allow the college to encourage campus life through an intramural program in basketball, volleyball, and indoor soccer as well as provide an area for organized aerobics. It would also provide an opportunity to offer non-credit course for community education and for credit course in physical education. Given the 940-acre size of the campus, it could serve as the rental center for a Nordic ski trail system located on the college land offering further recreational opportunities. This project would construct an estimated 25,000 square foot building on the Mat-Su campus to include a multi-activity gymnasium, physical conditioning room, group exercise studios, student recreational area for table games such as ping pong, indoor jogging track, student lounge, lockers, showers, and additional space for meeting rooms, equipment rental check out room, office and other required space.

UAA KBC Lecture Hall and Community Center

FY29-FY33 (GF: \$10,000.0, NGF: \$0.0, Total: \$10,000.0)

The Kachemak Bay Campus (KBC) has 10 teaching classrooms and none of them can seat more than 35 students in a normal classroom setting. In Pioneer 201/202, there is a joint classroom with a barrier that can be removed that can accommodate close to 100, but that is the max with no desks. KBC hosts several events where more than 100 have interest in attending, however since the facilities cannot accommodate the result is to rent other venues or limit attendance. These include the Writers Conference 120-150, KBC Graduation 100-200, Nursing and CNA pinning, legislative community conversations, guest lectures, and brown bag symposia. Homer does not have a venue that can accommodate the 200-250 range of people. The only other option is the high school Mariner Theatre which seats 500. If KBC had this larger lecture hall, the plan would be to host more events, speakers, conferences, and workshops which would ultimately result in rental revenue and community collaborations.

UAF Student Success: Housing Revitalization

FY25-FY26 (GF: \$28,250.0, NGF: \$0.0, Total: \$28,250.0)

A new residential living facility is needed to more effectively recruit, retain, and support students. This modern facility will holistically contribute to the quality and success of the student experience. Many of UAF's existing facilities are over

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60 years old. Even Cutler Apartments, UAF's newer apartment-style housing, is nearly 40 years old. Today's students expect modern halls on campus offering private and community spaces. UAF's housing market analysis indicates UAF's current and near-future students will support a larger single residence hall with modern amenities that would replace approximately 400 beds in four existing residence halls. The new facility will require significantly less maintenance and be more energy efficient than outdated facilities. For this project, up to four older dormitories will be taken offline, significantly reducing ongoing maintenance costs and deferred renewal backlog; up to three will be demolished and one repurposed. Six of UAF's peer universities have built new modern facilities featuring suite-style housing and emphasizing community and student success in the last five years. UAF believes modest growth is a reasonable expectation in the coming years and this growth coupled with new housing should lead to greater enrollments and on-campus retention of students. Improving on-campus housing is a key element to UAF's recruitment and retention strategy and initiatives, and also contributes to student success.

UAF Student Success: Troth Yeddha' Core Campus Parking

FY27-FY28 (GF: \$6,500.00, NGF: \$0.0, Total: \$6,500.0)

The construction of on-campus parking will provide consolidated options, open up valuable land for future needs, improve the appearance of the campus, and provide convenient, short-term parking for visitors, part-time students and events on campus.

UAF Student Success: Nanook Community Ice Center

FY25-FY26 (GF: \$64,500.0, NGF: \$0.0, Total: \$64,500.0)

This project will replace the Patty Ice Rink, increase the seating capacity from 1,300 to 3,500, improve the locker-rooms for NCAA competition and local hockey events, and provide Title IX required parity in the facility. The Patty Ice Rink is one of three publicly accessible indoor rinks in the Fairbanks North Star Borough (FNSB) community. The rink is highly utilized by the community residents, FNSB School District (FNSBSD) events, and local/statewide competitive hockey, in addition to support of UAF athletics and the Nanook community.

UAF Student Success: Student Recreation Center Expansion

FY27-FY28 (GF: \$750.0, NGF: \$0.0, Total: \$750.0)

FY29-FY33 (GF: \$12,000.0, NGF: \$0.0, Total: \$12,000.0)

This project will begin to alleviate the overcrowding and scheduling issues in the too small student recreation center. The current facility was built during substantially lower student enrollments. The expanded facility will provide interior recreation for Fairbanks students, staff, faculty and the community.

UAS Aak'w Lake Longhouse/Cultural Center

FY25-FY26 (GF: \$2,000.0, NGF: \$0.0, Total: \$2,000.0)

FY27-FY28 (GF: \$8,000.0, NGF: \$10,000.0, Total: \$18,000.0)

Cultural experience is a vital part of student life at UAS but the Juneau campus has few venues for the presentation and performance of cultural events. This project will construct a new building in the spirit of the traditional southeast cultural long house. This facility will promote the arts and cultures of all peoples and cultures through education, cultural preservation, creative expression and economic development.

UAS Outdoor Studies Storage at Auke Lake

FY29-FY33 (GF: \$300.0, NGF: \$300.0, Total: \$300.0)

This project will construct a new shelter next to Auke Lake for the storage of existing outdoor studies equipment.

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UAS Facility Services Consolidate and Relocate

FY29-FY33 (GF: \$11,000.0, NGF: \$0.0, Total: \$11,000.0)

The existing facilities site in Juneau began as a converted residential building and has been supplemented with temporary and marginal improvements for the last thirty years. Facilities Services also uses several other residential houses to accommodate staff, shop space and equipment/materials storage space. This project would demolish all of these old houses and consolidate facilities services under in one purposely-built building that is more efficient for facilities work and economical to operate.

UAS Student Life Building

FY29-FY33 (GF: \$11,000.0, NGF: \$10,000.0, Total: \$21,000.0)

A new UAS Student Life building will significantly improve the Juneau Auke Lake Campus environment and enable the university to continue improvements in student recruitment, retention, and completion. With a mission focused on student success, UAS has seen major improvement in the retention of first time, full-time students—increasing from 58% to 72% in recent years. This achievement is based in part on creating a new and dynamic central campus in Juneau: new freshman housing, pedestrian plazas and outdoor gathering areas, improved food quality, engaging campus life activities, enhanced services for Alaska Native and rural students, and close proximity to library and learning center services.

The Student Life building will occupy a central location on the campus, adjacent to the new freshman housing and the Egan classroom wing. It will include a new food service facility, a multipurpose assembly and meeting space, and space for student support services. It will provide expanded space and a warm, inviting atmosphere for the UAS Native and Rural Student Center—making the campus an even more inviting and supportive place for first-time college students.

The Student Life building will help fulfill the goals of the UAS Campus Master Plan (2022) which seeks to support and enhance community engagement and provide venues for music, dance, theatrical, and other cultural and artistic performances. That plan suggests that: amenities should be built and expanded that encourage both resident and commuter students to remain on campus in order to strengthen both the social and academic aspects of campus life. This is an especially critical need during the winter months.

New Construction - Infrastructure

UAA MAPTS Kenai Ground Water Contamination

FY27-FY28 (GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)

The Kenai MAPTS site, approximately .75 miles from the KPC Kenai River Campus, was used for fire training from approximately 1980 to 1988. The fire suppressants used during training at the site included aqueous film forming foams, which contain perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). At the request of Alaska Department of Environmental Conservation (ADEC), initial water samples were collected from the remediation site on May 20, 2013. The PFOS concentration in the water samples from the excavation exceeded the draft ADEC cleanup criterion and based on these results, new monitoring wells have been drilled and samples collected and tested from the new and existing wells from September 2013 to present. Although the scope of this project will continue to be refined as investigations continue, the projected costs currently include: funding required to establish additional monitoring wells to delineate the plume; annual costs for monitoring and testing each well for the next five years; and mitigation measures which could include extension of city water lines to affected neighboring properties.

UAS Strengthen Campus Security - Juneau, Sitka, Ketchikan

FY25-FY26 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

Crime rates in the United States are continuing to increase and Juneau is not exempt. In 2019 UAS had three sexual offences, two burglary offences and 40 Liquor/Drug violations. University students, parents, staff and faculty are expecting the University to provide more active security measures on campus including cameras, electronic locks, panic buttons, security guards, safe rooms and specialized training. This project will include contracting with a professional security consultant to analyze the three UAS campuses, identify potential threats, investigate weaknesses, test existing

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security measures and then make recommendations on how to improve security on our campuses. This project will then install and implement the security improvements recommended by the consultant to have the largest benefit with the university's limited budget, which are anticipated to include more security cameras and electronic locks.

UAS Pedestrian Crossing of Highway to Science Buildings

FY25-FY26 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

FY27-FY28 (GF: \$7,500.0, NGF: \$0.0, Total: \$7,500.0)

The Anderson and Auke Bay Integrated Science Buildings are located approximately one-quarter mile from the center of the Auke Lake campus main parking area and on the opposite side of the Glacier Highway. Students, staff and faculty going between the Anderson Building and campus walk back to where the highway intersects with Back Loop road, then along the highway. Pedestrians resist this path because it is not a direct route involving some backtracking to get to the intersection. This project will construct a pedestrian overpass or under pass to cross the highway, thus reducing the walking distance to these buildings and improving pedestrian safety.

UAS Landmark, Branding, Signage Improvements

FY25-FY26 (GF: \$750.0, NGF: \$0.0, Total: \$750.0)

UAS Juneau campus sits nestled in the southeast Alaska rainforest. While this provides a beautiful setting for the campus, it remains hidden from the community behind a wall of greenery. This project will install prominent features along the highway adjacent to the campus. State highway regulations prohibit advertising signage that may distract drivers. Staying in compliance with this regulation, UAS will install prominent features that will alert people traveling along the highway that they are right next to the UAS campus. These prominent features may include university colors, sidewalk benches, distinctive landscaping, colorful banners on light poles, seasonal lights and a mural on the large concrete retaining wall near the southeast entrance to campus.

UAS Improve Pedestrian Crossing at Main Entry (Back Loop Road Intersection)

FY27-FY28 (GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)

UAS main entrance is at the intersection of Auke Lake Way and Back Loop Road. Stop signs control traffic at Auke Lake Way, while Back Loop Road traffic has pass-thru traffic. Students living at UAS housing walk to campus crossing thru this intersection by waiting for a break in traffic and walking in the painted crosswalk. The intersection is clearly defined and well-lit. However, many campus community members feel that additional safety measures should be made. This project will investigate what additional safety measures that may include; flashing lights, stoplights, pedestrian stop-control lights, signage or a roundabout. Any of these measures will need to comply with approved traffic control regulations to ensure the measures do not inadvertently reduce the safety of our community.

UAS Sitka Waterfront, Traffic and Pedestrian Access Improvements

FY25-FY26 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

FY27-FY28 (GF: \$4,500.0, NGF: \$0.0, Total: \$4,500.0)

Sitka campus is set in a renovated WWII airplane hangar. The grounds consist of acres of concrete airport apron used in WWII to tie down the airplanes. This project will make improvements to the grounds to make it more appropriate for a university campus. Improvements will include; a campus entryway landmark, landscaping, sidewalks, parking delineation, pedestrian pathway along the shoreline and renovation of the old float plan ramp.

UAS Lakeside Access Improvements - Phase 2 - Floating Trail & Dock

FY27-FY28 (GF: \$500.0, NGF: \$400.0, Total: \$900.0)

The purpose of this project is to create a strong connection between Auke Lake and the Juneau campus by improving visual, physical, and educational connections with Auke Lake. The need for this project is to take advantage of the excellent resources Auke Lake offers for educational engagement, cultural knowledge, recreational activities, and marketing opportunities. Elements of Phase 2 include: Floating trail from the existing dock to Phase 1 Dock, Stairway from campus corridor to doc.

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UAS Sitka Boat Storage Facility

FY27-FY28 (GF: \$1,700.0, NGF: \$0.0, Total: \$1,700.0)

This project will construct a new shelter for the storage of existing boats owned by the Sitka campus. Currently, these boats are stored outside. The shelter will help protect the investment the university has placed in boats for their educational programs.

Land, Property, & Facilities Acquisition

UAS Ketchikan Maritime Center Property Expansion

FY25-FY26 (GF: \$1,800.0, NGF: \$0.0, Total: \$1,800.0)

The UAS Maritime Center sits on a small lot along Tongas Narrows. The building covers most of the property leaving inadequate parking for current use and no place for expansion of the expanding Maritime Center. This project will purchase an adjacent property and construct a parking lot for the Maritime Center. This will allow room for building an addition to accommodate increased academic and administrative services. Currently, the proposed property is vacant making this a high priority to avoid additional expense.

UAS North Entrance Land Purchase

FY25-FY26 (GF: \$750.0, NGF: \$0.0, Total: \$750.0)

UAS does not have full control of the property where pedestrians and vehicles enter campus. This limited control of the property stopped a project where UAS was trying to re-route pedestrians to a safer crossing of backloop road. This project will transfer this section of land from United States Forest Service (USFS) to UAS. This will also allow UAS to obtain driving access to 4.23 acres of UAS property next to Auke Lake, making it more useful and valuable to the UA system. With this piece of property in UAS control, it will also prevent USFS from selling it to a developer who could build condominiums or a warehouse which would detract from the currently attractive main entrance to the UAS campus.

UAS Private Property Acquisition along Glacier Highway

FY25-FY26 (GF: \$800.0, NGF: \$0.0, Total: \$800.0)

FY27-FY28 (GF: \$800.0, NGF: \$0.0, Total: \$800.0)

FY29-FY33 (GF: \$900.0, NGF: \$0.0, Total: \$900.0)

This project will purchase several private properties that are inside the main Juneau campus core area. These properties will be acquired when the property normally comes up for sale. These properties will enable the main campus core to expand and still remain connected in one section of land.

Equipment

UAA Classroom Technology Enhancements

FY25-FY26 (GF: \$3,000.0, NGF: \$0.0, Total: \$3,000.0)

FY27-FY28 (GF: \$2,000.0, NGF: \$0.0, Total: \$2,000.0)

FY29-FY33 (GF: \$5,000.0, NGF: \$0.0, Total: \$5,000.0)

With rapid change in expectations for delivering curriculum remotely, this project will provide upgraded technology to augment curriculum delivery for critical face to face classes. These enhancements will allow for more online curriculum deployment and will provide equitable access for students that require more flexibility amidst a variety of community and health challenges.

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UAF Inclusive Technology Infrastructure: eCampus Recording Capabilities, ADA Accessibility & Instructional Classroom Technology

FY25-FY26 (GF: \$4,000.0, NGF: \$0.0, Total: \$4,000.0)

For today's students, the digital world is ubiquitous, immersive and is their habitat. Investing in current technologies is necessary to engage students and provide a present-day media-rich learning experience and drive student success. An engaging digital experience for students and instructors throughout multiple learning environments reduces barriers, increases accessibility and boosts student participation, enrollment and retention. The following investment requests each present opportunities to transform the UAF learning experience.

1. eCampus HyFlex Classrooms, Recording Capability, Video "One-Button" Studio & Accessibility Stations: \$2,000.0
 - HyFlex - Learning Glass Enabled Classrooms (15): \$1,500.0
Instructional technologies include Learning Glass technology and dual stream recording capability to support the streaming and capture of instruction for synchronous and asynchronous modalities. Additional improvements include lighting upgrades and audio upgrades for instructor and student participation, and retractable green screens. Technology improvements include standard digital classroom improvements (presentation, video conferencing, lecture capture, streaming and mobile technologies). These technology upgrades fully facilitate the HyFlex modality, supporting combinations of synchronous, asynchronous, and face-to-face learning experiences eliminating space and time based barriers to learning.
 - eCampus Media Studio Upgrades (2): \$100.0
Provides for enhanced media production from our two campus based studios. Improvements would include upgraded recording equipment (video and audio) as well as improved post-production equipment, supporting increased demand and capacity requirements.
 - Sound Isolation Booths (2): \$50.0
Provides a sound proof space for students and instructors to produce quality audio recordings for asynchronous course elements as well as host online synchronous learning sessions.
 - One Button Studios (5): \$250.0
These self-service studios provide high quality video media production equipment.
Students and instructors are able to walk-in, click a button, and walk-out with their own video media project. The one-button concept eliminates the production wait time for a finished product and significantly reduces staff support required for video production services. This greatly enhances media production capacity to better support our distance based courses and online programs.
 - Center for Accessible Technology: \$100.0
This center would accommodate users of assistive technologies and serve to educate the campus community regarding accessibility, equal access and universal design concepts. The center would be equipped with assistive technologies such as Braille readers and keyboards, screen reader workstations, document conversion software, magnification tools, enlarged displays, tactile printers, keyboard/mouse alternatives, eye tracking hardware, and sip and puff devices. In addition to the equipment listed above, the Center would include an empathy lab equipped with a variety of simulations, which would help users understand barriers to universal access. These tools and simulations would be available for faculty and course designers to develop and test courses and services. The entire campus community would benefit from such a space through the opportunities for education. Institutional compliance issues would also be addressed through the easy access to this technology.
2. Deferred Instructional Classroom Technology Upgrades: \$2,000.0
This request will upgrade the instructional technology in 82 learning spaces and classrooms throughout the UAF campuses that have not been upgraded since 2014. Instructional technologies include presentation, video conferencing, lecture capture, streaming and mobile technologies. These technology upgrades will modernize both distance and face-to-face learning experiences by making classrooms Zoom web conferencing compatible. Additional funds would be used to update rooms circa 2015-present, to be Zoom web conferencing compatible.

UAF Critical Troth Yeddha' Campus Heavy Equipment

FY25-FY26 (GF: \$700.0, NGF: \$0.0, Total: \$700.0)

UAF's Troth Yeddha' campus is 2,250 acres and UAF Facilities Services provides refuse pickup and disposal service for this campus, plus surrounding UAF facilities throughout the Fairbanks area. UAF hauls roughly 30 tons of refuse on a weekly basis from roughly 50 industrial-size trash receptacles by utilizing an aging garbage truck with nearly 200,000

UA 10-Year Capital Improvement Plan Project Descriptions

miles on it. The garbage truck is beyond its useful life and has experienced mechanical problems and failures. Replacing this critical piece of equipment allows UAF to provide safe and sanitary facilities for students to live and learn, for research to be conducted, and for the UAF community to enjoy our campus without concern about accumulated garbage, unpleasant odors, or an unsafe environment.

UAF Facilities Services also provides snow removal for roads, sidewalks, and parking lots on the Troth Yeddha' campus and surrounding UAF facilities throughout the Fairbanks area. Parking lot sizes alone are roughly 2.1 million square feet. This work is accomplished through operation of heavy equipment such as graders, loaders, dump trucks and skid steers. Some equipment needs critical attachments such as loader buckets, blades, sweepers and blowers. The standard useful life of a loader is 10 years and UAF's existing loader is nearly 30 years old with a multitude of mechanical problems that threatens its reliability during snowfall. This is a critical piece of equipment that helps keep the UAF campus safe and accessible.

UAF's examination of outsourcing possibilities versus in-house operations continues to reveal that in-house operations are less expensive. Replacing these aging pieces of heavy equipment is the most cost effective option.

UAS Smart Classrooms Juneau Campus

FY25-FY26 (GF: \$200.0, NGF: \$0.0, Total: \$200.0)

This project will promote student enrollment through publicizing of modern buildings and facilities. Smart/Flex classrooms have shown to improve student learning, foster collaboration among students, increase grades and student graduation rates. Movable desks, chairs, smart boards and displays allows the professor to arrange the classroom to best compliment the subject matter. Professors can set up a traditional front facing presentation classroom or they can reconfigure their classroom several times in a single class period to create different learning experiences. It allows professors and students to collaborate on a more engaging level that helps students learn and remember.

Video conferencing, lecture capture, linked-in monitors, streaming and mobile technologies enable to bring distance-learning students into the classroom. Can they not only see and hear the professor and class, they can ask questions, see and collaborate with other classmates.

Classrooms no longer need to subject specific, with Smart/Flex classrooms the room can be set up for any subject. This increases the usability of the building space and allows for the reduction in overall building space and associated costs.

This project will convert one existing classroom into a Smart/Flex classroom.

Research for Alaska

UAA Northern Climate Research Electric Shuttle Buses and Charging Infrastructure

FY25-FY26 (GF: \$3,000.0, NGF: \$0.0, Total: \$3,000.0)

This project seeks funds for three electric vehicles (EVs) shuttle buses and two electric charging stations to build an EV infrastructure testing framework across the University of Alaska system to characterize the cold weather impacts on EV energy use and range loss; to examine the efficiency and interoperability of DC fast chargers with the electricity grid, and to provide education and training to support workforce development training for the service and repair of EVs in Alaska. Through a comprehensive approach of research, development, and demonstration, a team of researchers from UAA, UAF, and industry partners will collectively study the operational performance and grid impacts of electric vehicles in Alaska. The Automotive and Diesel Technology program at the UAA's Community and Technical College (CTC) as the premier vehicle and machinery training center in the State, will serve as the hub for training UAA's CTC students, industry personnel on service and repair procedures for these vehicles. The team has also established strong connections with the following partners who stand ready to collaborate on this project: Capital Transit of Juneau, Municipality of Anchorage, Tok Transportation, Alaska Electric Light and Power, Chugach Electric Association, Cordova Electric Cooperative, Matanuska Electric Association, and the National Rural Electric Cooperative Association Research. This research is critical to inform the coming transition to electric vehicles and will benefit consumers, utilities, municipalities, fleet-owners, and Alaskans seeking jobs and careers in the emerging EV industry.

UA 10-Year Capital Improvement Plan Project Descriptions

UAA ConocoPhillips Integrated Sciences Building (CPISB) Combined Heat and Power Energy Savings Project FY29-FY33 (GF: \$1,200.0, NGF: \$0.0, Total: \$1,200.0)

This project will add combined heat and power (CHP) microturbine to the CPISB building. The localized generation of power provided by the CHP will reduce the overall peak electrical demand and eliminate energy transmission losses experienced through standard electrical distribution grids. Combined, these energy savings will reduce operational costs, reduce overall greenhouse gas emissions, and promote environmental stewardship. This project is part of a grant proposal and partnership between UAA and Alaska Energy Authority. If funded, the project will provide research and data supporting the US Department of Energy, Office of Energy Efficiency and Renewable Energy Building Technology Proving Ground - Public Field Verification. If successful, the project will serve as a model to expand to other public facility owners including other UAA facilities. This project is consistent with the strategic goals identified as part of the Anchorage Climate Action Plan to reduce greenhouse gas emissions and provide improvements to sustainable outcomes in our community.

UAF Poker Flat Research Range (PFRR) Oil Spill Research Test Basin

FY25-FY26 (GF: \$750.0, potential NGF: \$1,000.0, Total: \$1,750.0)

This capital funding will provide for improvements to the Poker Flat Research Range (PFRR) Test Basin used by both University of Alaska Fairbanks (UAF) investigators and oil and gas industry researchers to investigate oil-spill mitigation technologies and techniques – especially in Arctic waters with ice present. In 2015, UAF researchers performed a series of successful experimental burns at the PFRR Test Basin as a project within a UAF/industry partnership. International Oil and Gas Producers Association funded research aimed at improving understanding of how herding agents could aid mitigation of Arctic oil spills. Both unmanned aircraft and piloted helicopters were used to conduct the tests and monitor the results. Recent permanent closures of similar test basins around the U.S. have highlighted the importance of the PFRR Test Basin that is now poised to become the premier facility of its kind for both research and training for oil response and mitigation.

A combination of the researchers, facilities, and location in the Arctic or Subarctic drive research opportunities at UAF. Often, the facilities attract researchers and in turn they draw the funding for research projects. At UAF there are many such facilities including PFRR, Alaska Satellite Facility, Toolik Lake Field Station, and the High-frequency Active Auroral Research Program. In order to attract new sponsored programs, these research facilities often need an injection of capital for specialized equipment, or an upgrade to existing facilities that sponsors cannot fund. With a modest number of additions and modifications to its infrastructure, the Test Basin would become the premier oil spill test facility in the U.S. Its remote location, high latitude, university ownership, and open airspace make it ideal for testing and innovation on many fronts.

Scope

Oil and Gas Industry sponsors and federal regulating agencies regularly contact researchers at the Geophysical Institute to continue research projects at the PFRR Test Basin. There are currently two projects scheduled for Spring 2021 that include \$300,000 of sponsored funding. The demand for this research is expected to increase and improvements to the Test Basin and its facilities will enhance industry participation. The experiments include the use of variety of in situ and remote sensing equipment that will be supplied by the sponsors. The Test Basin must provide facilities for experiment preparation, data collection, data analysis, cleaning, preparation, and hazmat handling. Experiment hardware booms and manipulators will be required. Researchers need a heated location to record and manage data as experiments will be conducted year-round with many being ice related. The current Basin depth is 3 feet, which means water will freeze all the way to the bottom. There is a need to increase the depth of the Test Basin to allow experiments and observations below the ice.

The PFRR is a Federal Aviation Administration test range which allows for unmanned aerial systems operations. This is an important feature as it allows researchers to observe and collect data in a variety of ways. In the previous successful basin tests, ACUASI played a vital role for operations and observations. The remote location of the Test Basin at PFRR, 35 miles from the UAF campus, will allow for in situ burning.

UA 10-Year Capital Improvement Plan Project Descriptions

Collaboration

The 2015 research was conducted with a collaboration between the Geophysical Institute and the Institute of Northern Engineering. Future projects are anticipated to continue this collaboration with expansion to include other UA campuses and disciplines. Much of the engineering infrastructure needed at the Test Basin could be designed, built and operated by UAF engineering students as part of their Capstone Project.

UAF Interdisciplinary Research and Intellectual Property Capacity Building

FY24 (GF: \$500.0, potential NGF: \$1,000.0, Total: \$1,500.0)

UAF seeks to create a centrally located, highly visible, open concept creative and intellectual space reflecting UAF's identity as an innovative, inclusive, world-class research university. Referred to as "the MIX", this concept will increase cross-campus collaborative research between institutes and colleges, and foster innovative practices that are un-siloed and highly networked. It will function as a recruitment strategy and mechanism for ensuring student and faculty engagement, success and retention, and for building community and industry partnerships with UAF. This shared vision will enable UAF to reinvent itself as an innovative, cutting edge university committed to transdisciplinary learning across all aspects of its mission: teaching, research and community engagement. This project concept is seed funding to support key staffing that will build the program offerings to increase student participation and outreach opportunities.

University of Alaska FY24 Budget Distribution

Location	Facility Inventory Fall 2021 Gordian Replacement Values					2022 DM/R&R Backlog (\$1,000)	Calculated Index ⁽²⁾			Facilities Maintenance Budget			Request			
	# of Bldgs	Avg. Age (years)	Gross Headct. Area (sq. feet)	Emp. + Student	Replace't Value (RV) (\$1,000)		Wt Age- Value Index	Density Index	Dist. %	Budget FY23 Base Goal	Shortfall 1,762.0 -2,558.0	Budget (\$1,000)	Operat'g	Capital		
Anchorage Campus	Anc.	65	29.5	2,835,048	11,655	1,662,549.7	587,002.7	39.1	0.11	23.6%	14,160.0	0.9%	8,338.0	-5,822.0	354.0	20,200.0
UAA Community Campuses		32	28.4	454,939	4,282	297,889.8	37,251.6	8.2	0.24	7.2%	4,320.0	1.5%	1,762.0	-2,558.0	108.0	6,700.0
Kenai Peninsula College	Soldotna	12	28.4	186,146	1,740	125,033.8	10,789.9									
Kodiak College	Kodiak	5	44.8	44,876	541	28,719.6	4,780.7									
Matanuska-Susitna College	Palmer	9	29.8	155,878	1,349	98,448.3	9,580.0									
Prince Wm. Sound College	Valdez	6	12.5	68,039	652	45,688.2	12,101.0									
	UAA Total	97	29.1	3,289,987	15,937	1,960,439.6	624,254.4	47.4	0.35	30.8%	18,480.0	0.9%	10,100.0	-8,380.0	462.0	26,900.0
Fairbanks Campus/CTC	Fbks.	229	39.2	3,761,470	9,619	3,098,705.1	816,902.2	96.6	0.18	56.8%	34,060.0	1.1%	13,877.0	-20,183.0	852.0	34,500.0
UAF Community Campuses (CRCD)		27	31.6	155,942	2,030	147,522.0	31,108.5	5.1	0.11	4.0%	2,400.0	1.6%	538.0	-1,862.0	60.0	4,000.0
Bristol Bay Campus	Dillingham	3	20.0	20,217	304	13,767.0	907.2									
Chukchi Campus	Kotzebue	1	45.0	10,362	186	15,679.7	6,755.6									
Interior Alaska Campus	Various	5	33.2	29,111	277	25,833.0	1,723.1									
Kuskokwim Campus	Bethel	7	37.3	51,774	442	51,048.6	19,539.9									
Northwest Campus	Nome	10	30.3	21,570	246	22,949.4	1,531.8									
Col. of Rural & Comm. Dev.	Fbks.	1	18.0	22,908	575	18,244.3	651.0									
	UAF Total	256	38.4	3,917,412	11,649	3,246,227.1	848,010.7	101.7	0.21	60.8%	36,460.0	1.1%	14,415.0	-22,045.0	912.0	38,500.0
Southeast Campus	Juneau	28	28.7	379,653	1,643	226,309.9	20,658.3									
UAS Community Campuses		4	9.8	117,546	1,363	60,641.4	5,572.5									
Ketchikan Campus	Ketchikan	3	10.0	49,488	684	33,178.8	3,437.0									
Sitka Campus	Sitka	1	9.0	68,058	679	27,462.6	2,135.5									
	UAS Total	32	26.3	497,199	3,006	286,951.3	26,230.8	6.4	0.43	8.0%	4,800.0	1.7%	1,781.0	-3,019.0	120.0	6,500.0
UA System Office ⁽¹⁾	Various	9	41.7	241,973.0	213.0	169,222.6	15,042.4	0.7	0.01	0.4%	260.0	0.2%	304.0	44.0	6.0	400.0
	UASO Total	9	41.7	241,973	213	169,222.6	15,042.4	0.7	0.01	0.4%	260.0	0.2%	304.0	44.0	6.0	400.0
	UA Total	394	35.2	7,946,571	30,805	5,662,840.6	1,513,538.3	156.1	1.00	100.0%	60,000.0	1.1%	26,600.0	-33,400.0	1,500.0	72,300.0

Age*RV Weight 90.0%

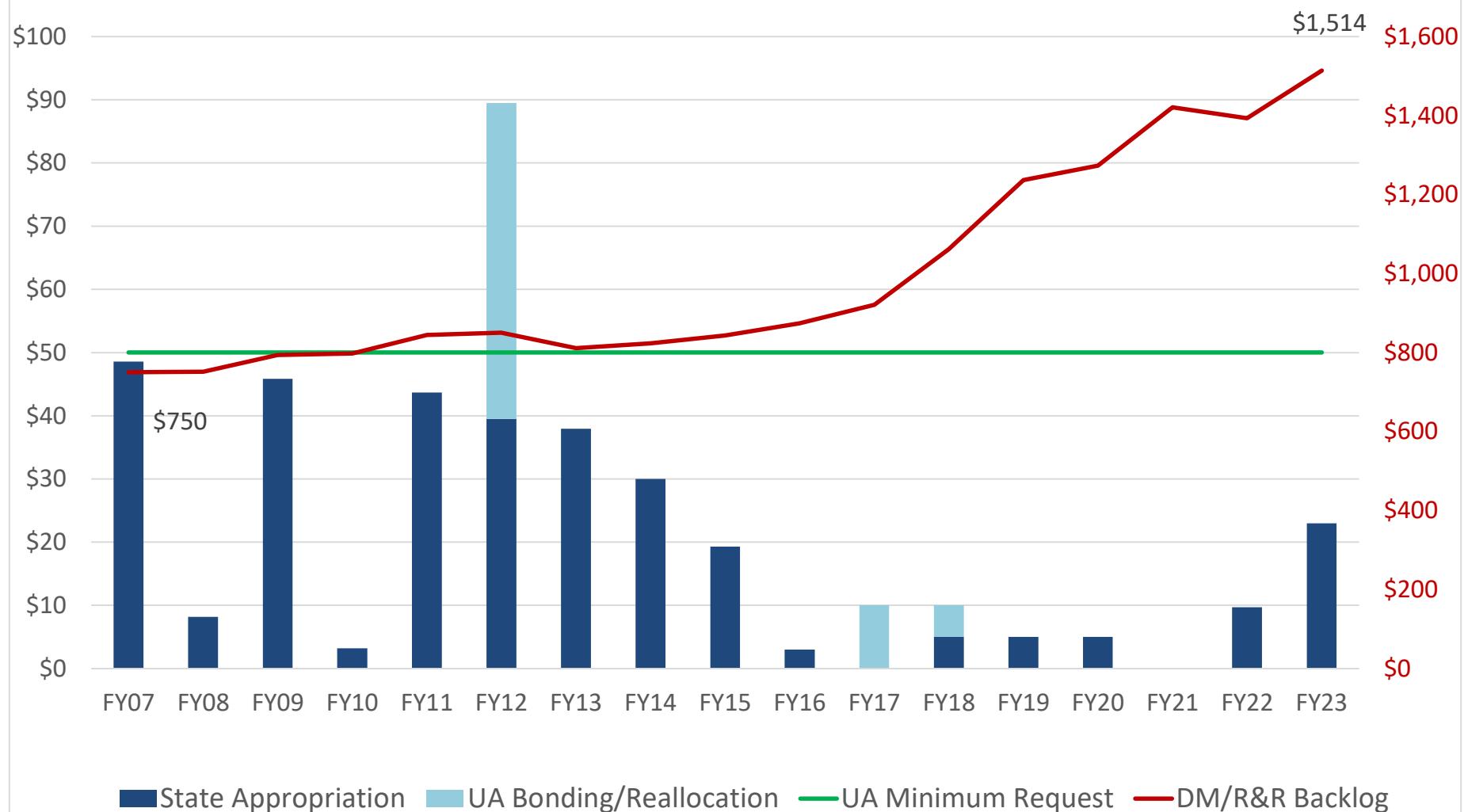
Density Weight 10.0%

1. System Office facility values include Land Management properties; distribution % reduced at UASO to allow a larger portion of the funding to be distributed to universities

2. The index (distribution) is based on the individual building age times the replacement value (reported by Gordian) by campus divided by a billion.

Capital Budget DM/R&R Funding History

Unrestricted General Funds & Backlog (in millions of \$)



University of Alaska
 Capital Budget Request vs. State Appropriation
 FY14-FY23
 (in thousands of \$)

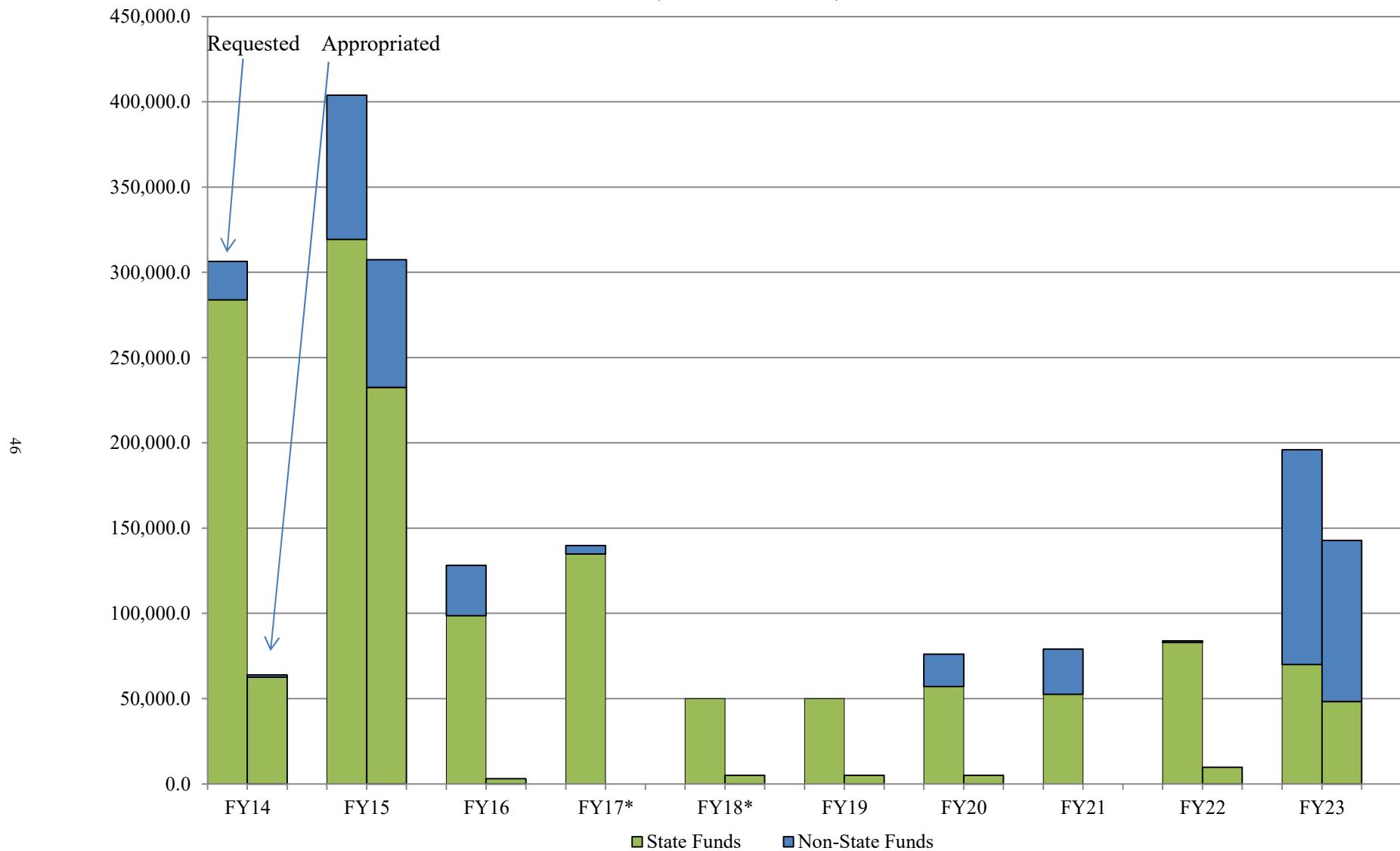
Request	Renewal and Repurposing	Add/Expand	New Facilities	Equipment	Other¹	Total
FY14	162,500.0		108,900.0		12,500.0	283,900.0
FY15	37,500.0		273,900.0		7,900.0	319,300.0
FY16	50,000.0		35,550.0		13,000.0	98,550.0
FY17	100,000.0		34,800.0			134,800.0
FY18	50,000.0					50,000.0
FY19	50,000.0					50,000.0
FY20	50,000.0				7,000.0	57,000.0
FY21	50,000.0				2,500.0	52,500.0
FY22	50,000.0				32,881.4	82,881.4
FY23	50,000.0				20,000.0	70,000.0
Total	650,000.0		453,150.0		95,781.4	1,198,931.4
10 yr. Avg.	65,000.0		45,315.0		9,578.1	119,893.1

Approp.	Renewal and Repurposing²	Add/Expand	New Facilities	Equipment	Other¹	Total
FY14	30,000.0		30,000.0		2,581.8	62,581.8
FY15	19,273.0		212,600.0	120.0	450.0	232,443.0
FY16	3,000.0					3,000.0
FY17						
FY18	5,000.0					5,000.0
FY19	5,000.0					5,000.0
FY20	5,000.0					5,000.0
FY21						
FY22	9,700.0					9,700.0
FY23	23,018.4				25,250.0	48,268.4
Total	99,991.4		242,600.0	120.0	28,281.8	370,993.2
10 yr. Avg.	9,999.1		24,260.0	12.0	2,828.2	37,099.3

1. Includes research and other capital appropriations.

2. Excludes funds reallocated from the operating budget for: Strategic Investments (SI): FY17 - \$10.0 million; FY18 - \$5.0 million, and non-state; Natural Resource Funds (NRF): FY17 - \$269.3 thousand; FY18 - \$300.4 thousand.

University of Alaska
Capital Request and Appropriation Summary FY14-FY23
(in thousands of \$)



* Excludes funds reallocated from the operating budget for: Strategic Investments (SI): FY17 - \$10.0 million; FY18 - \$5.0 million, and non-state; Natural Resource Funds (NRF): FY17 - \$269.3 thousand; FY18 - \$300.4 thousand.

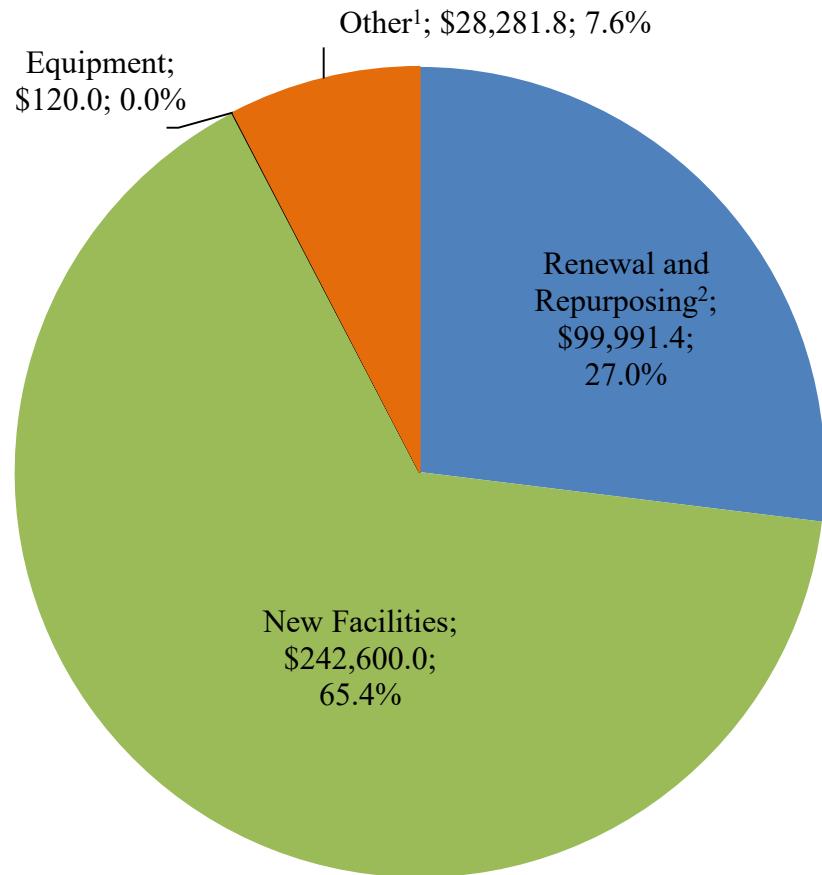
University of Alaska
State Appropriation Summary by Category
FY14-FY23
(in thousands of \$)

Campus	Location	Renewal and Repurposing ²	Additions / Expansions	New Facilities	Equipment	Other ¹	Total
Anchorage Campus	Anchorage	27,673.8	27.7%	60,600.0	25.0%	400.0	1.4% 88,673.8 23.9%
Kenai Peninsula College	Soldotna	1,673.9					1,673.9
Kachemak Bay	Homer	380.1				50.0	430.1
Kodiak College	Kodiak	957.2	5.6%				0.2% 957.2 1.5%
Matanuska-Susitna College	Palmer	1,782.3					1,782.3
Prince Wm. Sound College	Valdez	785.4					785.4
	UAA	33,252.8	33.3%	60,600.0	25.0%	450.0	1.6% 94,302.8 25.4%
Fairbanks Campus	Fairbanks	54,437.6	54.4%	182,000.0	75.0%	5,750.0	20.3% 242,187.6 65.3%
Community & Technical College	Fairbanks	510.0	0.5%				510.0 0.1%
Bristol Bay Campus	Dillingham	200.0					200.0
Chukchi Campus	Kotzebue	95.4					95.4
Interior Alaska Campus	Tok						
Interior Alaska Campus	Fort Yukon		1.7%				0.5%
Interior Alaska Campus	Fairbanks						
Kuskokwim Campus	Bethel	970.0					970.0
Northwest Campus	Nome	4.6					4.6
College of Rural & Comm. Dev.	Various	417.0					417.0
	UAF	56,634.6	56.6%	182,000.0	75.0%	5,750.0	20.3% 244,384.6 65.9%
Juneau Campus	Juneau	8,990.0	9.0%		120.0 100.0%	81.8 0.3%	9,191.8 2.5%
Ketchikan Campus	Ketchikan	250.0					250.0
Sitka Campus	Sitka	250.0	0.5%				250.0 0.1%
	UAS	9,490.0	9.5%		120.0 100.0%	81.8 0.3%	9,691.8 2.6%
UA System Office	Fairbanks	614.0	0.6%		22,000.0	77.8%	22,614.0 6.1%
	UASO	614.0	0.6%		22,000.0	77.8%	22,614.0 6.1%
	UA Grand Total	99,991.4	100.0%	242,600.0	100.0%	120.0 100.0% 28,281.8 100.0%	370,993.2 100.0%
	% of Total	27.0%		65.4%	0.0%	7.6%	100.0%

1. Includes research and other capital appropriations.

2. Excludes funds reallocated from the operating budget for: Strategic Investments (SI): FY17 - \$10.0 million; FY18 - \$5.0 million, and non-state; Natural Resource Funds (NRF): FY17 - \$269.3 thousand; FY18 - \$300.4 thousand.

State Appropriation Summary by Category FY14 - FY23 (in thousands of \$)



New Facilities and Major Expansions³

UAA

Engineering Building (FY11 - FY15) \$123,200.0

UAF

Engineering Building (FY11 - FY15) \$73,946.7

Heat & Power Plant Major Upgrade (FY15) \$162,000.0

1. Includes research and other capital appropriations.

2. Excludes funds reallocated from the operating budget for: Strategic Investments (SI): FY17 - \$10.0 million; FY18 - \$5.0 million, and non-state; Natural Resource Funds (NRF): FY17 - \$269.3 thousand; FY18 - \$300.4 thousand.

3. Complete project totals for state appropriations are listed even if a portion is outside the timeframe represented in the pie chart.