



Department of the Air Force

Military Construction Program

**Fiscal Year (FY) 2024
Budget Estimates**

**Justification Data Submitted to
Congress Mar 2023**

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MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
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**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION AND MILITARY FAMILY HOUSING FISCAL YEAR 2024
PROGRAM SUMMARY**

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>
Military Construction		
Baseline Major Construction	-	2,105,500
Unspecified Minor Construction (10 USC 2805)	-	64,900
Planning and Design (10 USC 2807)	-	434,914
Total Military Construction	1,644,000	2,605,314
Military Family Housing		
New Construction	-	-
Improvements	-	229,282
Planning and Design	-	7,815
Subtotal	-	237,097
Operations, Utilities and Maintenance	-	277,440
Operations	-	93,976
Utilities	-	48,054
Maintenance	-	135,410
Privatization	-	31,803
Leasing	-	5,143
Subtotal	-	314,386
Total Military Family Housing	-	551,483
 Grand Total Air Force	 1,644,000	 3,156,797

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
INDEX - INSIDE THE US
(DOLLARS IN THOUSANDS)**

STATE	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
ALASKA	JB Elmendorf-Richardson	Extend Runway 16/34, Inc 3	-	107,500
		JB Elmendorf-Richardson TOTAL:		107,500
		ALASKA TOTAL:		107,500
FLORIDA	MacDill	KC-46A ADAL Aircraft Corrosion Control	25,000	25,000
		KC-46A ADAL Aircraft Maintenance Hangar	27,000	27,000
		KC-46A ADAL Apron & Hydrant Fueling Pits	61,000	61,000
		KC-46A ADAL Fuel System Maintenance Dock	18,000	18,000
	MacDill TOTAL:		131,000	131,000
	Patrick	Commercial Vehicle Inspection Gate	15,000	15,000
		Consolidated Communications Center, CTC	-	15,000
		Final Denial Barriers, South Gate	12,000	12,000
	Patrick TOTAL:		27,000	42,000
	FLORIDA TOTAL:		158,000	173,000
GEORGIA	Robins	Battle Management Combined Operations Complex	115,000	115,000
		Robins TOTAL:		115,000
GEORGIA TOTAL:		115,000	115,000	
LOUISIANA	Barksdale	Weapons Generation Facility, Inc 3	-	112,000
		Barksdale TOTAL:		112,000
LOUISIANA TOTAL:		-	112,000	
MASSACHUSETTS	Hanscom	Child Development Center	37,000	37,000
		MIT-Lincoln Lab (West Lab CSL/MIF), Inc 4	-	70,000
		Hanscom TOTAL:		37,000
MASSACHUSETTS TOTAL:		37,000	107,000	
MISSISSIPPI	Columbus	T-7A Ground Based Training System Facility	30,000	30,000
		T-7A Unit Maintenance Training Facility	9,500	9,500
		Columbus TOTAL:		39,500
SOUTH DAKOTA TOTAL:		39,500	39,500	
OKLAHOMA	Tinker	KC-46 3-Bay Depot Maintenance Hangar, Inc 3	-	78,000
		Tinker TOTAL:		78,000
OKLAHOMA TOTAL:		-	78,000	
SOUTH DAKOTA	Ellsworth	B-21 Fuel System Maintenance Dock	75,000	75,000
		B-21 Phase Hangar	160,000	160,000
		B-21 Weapons Generation Facility, Inc 2	-	160,000
		Ellsworth TOTAL:		235,000
SOUTH DAKOTA TOTAL:		235,000	395,000	
TEXAS	JBSA-Lackland	Child Development Center	20,000	20,000
		JBSA-Lackland TOTAL:		20,000
TEXAS TOTAL:		20,000	20,000	
UTAH	Hill	F-35 T-7A East Campus Infrastructure	82,000	82,000
		Hill TOTAL:		82,000
UTAH TOTAL:		82,000	82,000	
WYOMING	FE Warren	GBSD Integrated Command Center, Inc 2	-	27,000
		GBSD Integrated Training Center	85,000	85,000
		GBSD Missile Handling Complex, Inc 2	-	28,000
		FE Warren TOTAL:		85,000
WYOMING TOTAL:		85,000	140,000	
INSIDE THE US TOTAL:		771,500	1,369,000	

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
INDEX - OUTSIDE THE US
(DOLLARS IN THOUSANDS)**

STATE	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
AUSTRALIA	RAAF Darwin	PDI: Squadron Operations Facility	26,000	26,000
		RAAF Darwin TOTAL:	26,000	26,000
	RAAF Tindal	PDI: Aircraft Maintenance Support Facility	17,500	17,500
		PDI: Bomber Apron	93,000	93,000
		PDI: Squadron Operations Facility	20,000	20,000
RAAF Tindal TOTAL:	130,500	130,500		
AUSTRALIA TOTAL:	156,500	156,500		
COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS	Tinian	PDI: Airfield Development Phase 1, Inc 3	-	26,000
		PDI: Fuel Tanks with Pipeline & Hydrant System, Inc 3	-	20,000
		PDI: Parking Apron, Inc 3	-	32,000
	Tinian TOTAL:	-	78,000	
COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS TOTAL:	-	78,000		
GUAM	Joint Region Marianas	PDI: North Aircraft Parking Ramp, Inc 1	411,000	109,000
		Joint Region Marianas TOTAL:	411,000	109,000
	GUAM TOTAL:	411,000	109,000	
JAPAN	Kadena	Helicopter Rescue Operations Maintenance Hangar, Inc 3	-	46,000
		PDI: Theater Aircraft Corrosion Control Center, Inc 2	-	42,000
		Kadena TOTAL:	-	88,000
	JAPAN TOTAL:	-	88,000	
NORWAY	Rygge	EDI: DABS-FEV Storage	88,000	88,000
		EDI: Munitions Storage Area	31,000	31,000
		Rygge TOTAL:	119,000	119,000
	NORWAY TOTAL:	119,000	119,000	
PHILLIPINES	Basa	PDI: Transient Aircraft Parking Apron	35,000	35,000
		Basa TOTAL:	35,000	35,000
	PHILLIPINES TOTAL:	35,000	35,000	
SPAIN	Moron	EDI: Munitions Storage Area	26,000	26,000
		Moron TOTAL:	26,000	26,000
	SPAIN TOTAL:	26,000	26,000	
UNITED KINGDOM	RAF Fairford	EDI: RADR Storage Facility	47,000	47,000
		RAF Fairford TOTAL:	47,000	47,000
	RAF Lakenheath	EDI: RADR Storage Facility	28,000	28,000
		Surety Dormitory	50,000	50,000
		RAF Lakenheath TOTAL:	78,000	78,000
UNITED KINGDOM TOTAL:	125,000	125,000		
WORLDWIDE UNSPECIFIED	Various	EDI: Planning and Design	-	5,648
		Planning And Design	-	429,266
		Unspecified Minor Military Construction	-	64,900
		WORLDWIDE UNSPECIFIED TOTAL:	-	499,814
OUTSIDE THE US TOTAL:			872,500	1,236,314
INSIDE THE US TOTAL:			771,500	1,369,000
FY 2024 TOTAL:			1,644,000	2,605,314

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
NEW AND CURRENT MISSION**

DEFINITIONS OF NEW AND CURRENT MISSION

NEW MISSION PROJECTS – New mission projects all support new and additional programs or initiatives that do not revitalize the existing physical plant. These projects support the deployment and bed-down of new weapons systems: new or additional aircraft, missile and space projects; new equipment, e.g. radar, communication, computer satellite tracking and electronic security.

CURRENT MISSION PROJECTS – These projects revitalize the existing facility plant by replacing or upgrading existing facilities and alleviating long-standing deficiencies not generated by new missions or equipment. Included are projects to improve the quality of life, upgrade the workplace, enhance productivity and achieve compliance with environmental, health and safety standards.

<u>FY24</u>	Appropriation Request <u>(\$000)</u>
NEW MISSION	1,659,000
CURRENT MISSION	446,500
PLANNING & DESIGN	434,914
MINOR CONSTRUCTION	64,900
TOTAL:	2,605,314

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
INDEX - CURRENT/NEW MISSION BREAKOUT
(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION REQUEST	TYPE
ALASKA	JB Elmendorf-Richardson	Extend Runway 16/34, Inc 2	107,500	CM
COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS	Tinian	PDI: Airfield Development Phase 1, Inc 3	26,000	CM
COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS	Tinian	PDI: Fuel Tanks with Pipeline & Hydrant System, Inc 3	20,000	CM
COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS	Tinian	PDI: Parking Apron, Inc 3	32,000	CM
FLORIDA	Patrick	Commercial Vehicle Inspection	15,000	CM
FLORIDA	Patrick	Consolidated Communications Center, CTC	15,000	CM
FLORIDA	Patrick	Final Denial Barriers, South Gate	12,000	CM
JAPAN	Kadena	PDI: Theater A/C Corrosion Control Ctr, Inc 2	42,000	CM
MASSACHUSETTS	Hanscom	MIT-Lincoln Lab (West Lab CSL/MIF), Inc 4	70,000	CM
MASSACHUSETTS	Hanscom	Child Development Center	37,000	CM
TEXAS	JBSA-Lackland	Child Development Center	20,000	CM
UNITED KINGDOM	RAF Lakenheath	Surety Dormitory	50,000	CM
Current Mission TOTAL			446,500	
STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION REQUEST	TYPE
AUSTRALIA	RAAF Darwin	PDI: Squadron Operations Facility	26,000	NM
AUSTRALIA	RAAF Tindal	PDI: Aircraft Maintenance Support Facility	17,500	NM
AUSTRALIA	RAAF Tindal	PDI: Bomber Apron	93,000	NM
AUSTRALIA	RAAF Tindal	PDI: Squadron Operations Facility	20,000	NM
FLORIDA	MacDill	KC-46A ADAL Aircraft Corrosion Control	25,000	NM
FLORIDA	MacDill	KC-46A ADAL Aircraft Maintenance Hangar	27,000	NM
FLORIDA	MacDill	KC-46A ADAL Apron & Hydrant Fueling Pits	61,000	NM
FLORIDA	MacDill	KC-46A ADAL Fuel System Maintenance Dock	18,000	NM
GEORGIA	Robins	Battle Management Combined Operations Complex	115,000	NM
GUAM	Joint Region Marianas	PDI: North Aircraft Parking Ramp, Inc 1	109,000	NM
JAPAN	Kadena	Helicopter Rescue Operations Maintenance Hangar, Inc 3	46,000	NM
LOUISIANA	Barksdale	Weapons Generation Facility, Inc 3	112,000	NM
MISSISSIPPI	Columbus	T-7A Ground Based Training System Facility	30,000	NM
MISSISSIPPI	Columbus	T-7A Unit Maintenance Training Facility	9,500	NM
NORWAY	Rygge	EDI: DABS-FEV Storage	88,000	NM
NORWAY	Rygge	EDI: Munitions Storage Area	31,000	NM
OKLAHOMA	Tinker	KC-46A 3-Bay Depot Maintenance Hangar, Inc 3	78,000	NM
PHILLIPINES	Basa	PDI: Transient Aircraft Parking Apron	35,000	NM
SOUTH DAKOTA	Ellsworth	B-21 Fuel System Maintenance Dock	75,000	NM
SOUTH DAKOTA	Ellsworth	B-21 Phase Hangar	160,000	NM
SOUTH DAKOTA	Ellsworth	B-21 Weapons Generation Facility, Inc 2	160,000	NM
SPAIN	Moron	EDI: Munitions Storage Area	26,000	NM
UNITED KINGDOM	RAF Fairford	EDI: RADR Storage Facility	47,000	NM
UNITED KINGDOM	RAF Lakenheath	EDI: RADR Storage Facility	28,000	NM
UTAH	Hill	F-35 T-7A East Campus Infrastructure	82,000	NM
WYOMING	FE Warren	GBSD Integrated Command Center, Inc 2	27,000	NM
WYOMING	FE Warren	GBSD Integrated Training Center	85,000	NM
WYOMING	FE Warren	GBSD Missile Handling Complex, Inc 2	28,000	NM
New Mission TOTAL:			1,659,000	
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	434,914	P&D
WORLDWIDE UNSPECIFIED	Various Locations	Unspecified Minor Military Construction	64,900	UMMC
Central Program TOTAL:			499,814	
Active AF Program TOTAL:			2,605,314	

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
INSTALLATION INDEX**

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RYGGE	USAFE	NORWAY	224
TINKER	AFMC	OKLAHOMA	99
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ELLSWORTH	AFGSC	SOUTH DAKOTA	107
MORON	USAFE	SPAIN	238
JBSA-LACKLAND	AETC	TEXAS	125
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FE WARREN	AFGSC	WYOMING	137

ACC – AIR COMBAT COMMAND

AETC – AIR EDUCATION AND TRAINING COMMAND

AFGSC – AIR FORCE GLOBAL STRIKE COMMAND

AFMC – AIR FORCE MATERIEL COMMAND

AMC – AIR MOBILITY COMMAND

PACAF – PACIFIC AIR FORCES

USAFE – UNITED STATES AIR FORCE – EUROPE

USSF – UNITED STATES SPACE FORCE

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
SPECIAL PROGRAM CONSIDERATIONS**

ECONOMIC CONSIDERATIONS

An economic evaluation has been accomplished for all projects costing over 2 million dollars where viable options existed and the results are addressed in the individual DD Forms 1391.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

In accordance with Public Law 90-480 provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

ENVIRONMENTAL STATEMENT

In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 2024 Military Construction Program.

EVALUATION OF FLOOD PLAINS AND WETLANDS

All projects in the program have been evaluated for compliance with Executive Orders 11988 *Flood Plain Management* and 11990 *Protection of Wetlands* and the Flood Plain Management Guidelines of U.S. Water Resources Council. Projects have been sited to avoid or reduce the risk of flood loss; minimize the impact of floods on human safety, health and welfare; preserve and enhance the natural and beneficial values of wetlands; and minimize the destruction, loss or degradation of wetlands.

OVERSEAS OPERATIONS COSTS (OOC)

The Department of the Air Force supports the President's European Deterrence Initiative (EDI) to help increase the capability of U.S. allies and partners. A key enabler for contingency options is sufficiently robust infrastructure at key locations to support military activities.

The FY 2024 Overseas Operations Costs accounted for in the base budget total \$220,000,000, and are as follows:

- DABS-FEV Storage and Munitions Storage Area at Rygge Air Base, Munitions Storage Area at Moron Air Base, RADR Storage Facility at Royal Air Force Fairford and the RADR Storage Facility at Royal Air Force Lakenheath. These requirements are enduring in theater that will likely remain after combat operations cease.

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
CONGRESSIONAL REPORTING REQUIREMENTS**

1. STATEMENTS ON NATO ELIGIBILITY

These are in response to the requirement in the FY 1988 Senate Appropriations Committee Report, 100-200, page 13, and are included in the appropriate project justification.

2. NEW AND CURRENT MISSION ACTIVITIES

The FY 1989 Senate Appropriations Committee Report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed required projects in two separate categories: New Mission and Current Mission. The CM (current mission) or NM (new mission) designation, which follows the project on the listing at page 10, identifies each project as new or current mission. Additionally, each justification in Block 11 of the DD Form 1391 indicates whether the project supports a new or current mission.

3. REAL PROPERTY ADMINISTRATION

The FY 1977 House Appropriations Committee Report, 104-591, page 11, requested the Department to provide the real property maintenance backlog at all installations for which there is a requested construction project. Each DD Form 1390 reflects this information in block 12. In addition, the report requested all troop housing requests to show all real property maintenance conducted in the past two years and all future requirements for unaccompanied housing at that installation. Each DD Form 1391 for troop housing reflects this information in block 11.

4. METRIC CONVERSION

The FY 1999 House Appropriation Committee Report, 105-578, page 11, requested the Department to ensure that any Form 1390/1391, which is presented as justification in metric measurement, shall include parenthetically the English measurement. Each DD Form 1391 reflects the metric and English equivalent in block 11.

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
APPROPRIATION SOUGHT FOR PREVIOUSLY AUTHORIZED PROJECTS**

APPROPRIATIONS SOUGHT FOR FY19 AUTHORIZATIONS

In the FY2024 President’s Budget, the Department is requesting appropriation in the amount of \$70.0 million total for one project that was authorized in the National Defense Authorization Act for Fiscal Year 2019 (P.L. 115-232). MIT-Lincoln Lab (West Lab CSL/MIF) at Hanscom Air Force Base was authorized, and the Department is requesting the amount be appropriated as specified in this budget estimate.

APPROPRIATIONS SOUGHT FOR FY20 AUTHORIZATIONS

In the FY2024 President’s Budget, the Department is requesting appropriation in the amount of \$78.0 million total for three projects that were authorized in the National Defense Authorization Act for Fiscal Year 2020 (P.L. 116-92). Fuel Tanks with Pipeline and Hydrant System, Airfield Development Phase 1 and Parking Apron projects at Tinian were authorized and the Department is requesting the amounts be appropriated as specified in this budget estimate.

APPROPRIATIONS SOUGHT FOR FY22 AUTHORIZATIONS

In the FY2024 President’s Budget, the Department is requesting appropriation in the amount of \$427.0 million total for eight projects that were authorized in the National Defense Authorization Act for Fiscal Year 2022 (P.L. 117-81). Aircraft Maintenance Support Facility at RAAF Tindal, Child Development Center at Joint Base San Antonio-Lackland, Extend Runway 16/34 at Joint Base Elmendorf-Richardson, Helicopter Rescue Operations Maintenance Hangar at Kadena Air Base, KC-46A 3-Bay Depot Maintenance Hangar at Tinker Air Force Base, Squadron Operations Facility at RAAF Darwin, Squadron Operations Facility at RAAF Tindal and a Weapons Generation Facility (WGF) at Barksdale Air Force Base were authorized and the Department is requesting the amounts be appropriated as specified in this budget estimate.

APPROPRIATIONS SOUGHT FOR FY23 AUTHORIZATIONS

In the FY2024 President’s Budget, the Department is requesting appropriation in the amount of \$272.0 million total for five projects were authorized in the National Defense Authorization Act for Fiscal Year 2023 (P.L. 117-263). B-21 Weapons Generation Facility (WGF) at Ellsworth Air Force Base, Consolidated Communications Center at Patrick Air Force Base, Ground Based Strategic Deterrent (GBSD) Integrated Command Center at FE Warren Air Force Base, GBSD Missile Handling Complex at FE Warren Air Force Base and the Theater Aircraft Corrosion Control Center at Kadena Air Base were authorized and the Department is requesting the amounts be appropriated as specified in this budget estimate.

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2024
APPROPRIATION LANGUAGE**

FY2024 MILITARY CONSTRUCTION AIR FORCE

For acquisition, construction, installation and equipment of temporary or permanent public works, military installations, facilities, and real property of the Air Force as currently authorized by law, \$2,605,314,000 to remain available until September 30, 2028: Provided that, of this amount, not to exceed \$434,914,000 shall be available for study, planning, design, and architect and engineer services, as authorized by law, unless the Secretary of the Air Force determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reason therefor.

1. COMPONENT AIR FORCE		FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION JOINT BASE ELMENDORF-RICHARDSON, ALASKA					4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 1.94			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		792	4,858	1,866	0	0	0	320	1,642	272	9,750
b. END FY		792	4,858	1,866	0	0	0	320	1,642	272	9,750
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										78,697	
b. INVENTORY TOTAL AS OF 30-SEP-22										14,866,526.00	
c. AUTHORIZATION NOT YET IN INVENTORY										350,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										201,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										263,000.00	
h. GRAND TOTAL										15,680,526.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
111-111	EXTEND RUNWAY 16/34, INC 3		40,481 SM		107,500	06/19	07/21				
9. FUTURE PROJECTS 171-625 JOINT INTEGRATED TEST AND TRAINING CENTER (7,849 SM/\$201,000)											
10. MISSION OR MAJOR FUNCTIONS JBER is home to the 3rd Wing (3WG), HQ Alaskan Command, HQ U.S. Army Alaska, Alaskan NORAD Region, and 11th Air Force. Its mission provides air supremacy, surveillance, worldwide airlift, and agile combat support forces to project global power and global reach and training and readiness oversight responsibilities for Army Force Generation in Alaska. It is host to an operations group with squadrons of E-3B, C-17, F-22A and C-12 aircraft, as well as 15 tenant units including the Air Force Reserve's 477th Fighter Group, among others.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA			4. PROJECT TITLE PDI: EXTEND RUNWAY 16/34, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 107,500	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				70,640
RUNWAY (111-111) ADD	SM	40,481	355	(14,371)
TAXIWAY (112-211) ADD	SM	54,219	428	(23,206)
RUNWAY (111-111) ALTER	SM	98,875	94	(9,294)
TAXIWAY (112-211) ALTER	SM	18,471	156	(2,881)
ARMING AND DISARMING PADS (116-661) ALTER	SM	10,904	216	(2,355)
OVERRUN, PAVED (111-115) ADD	SM	13,936	227	(3,163)
OVERRUN, PAVED (111-115) ALTER SHOULDER,	SM	8,124	36	(292)
PAVED (116-642) ADD	SM	62,553	153	(9,571)
SHOULDER, PAVED (116-642) ALTER AIRFIELD	SM	66,936	62	(4,150)
LIGHTING VAULT (136-668)	EA	1		(1,357)
SUPPORTING FACILITIES				154,201
SITE IMPROVEMENTS	LS			(115,511)
FENCING	LS			(949)
UTILITIES	LS			(11,492)
PAVEMENTS - ROAD	LS			(3,256)
AIRFIELD LIGHTING AND SIGNAGE GENERATORS	LS			(12,347)
INSTRUMENT LANDING SYSTEM INFRASTRUCTURE	KW	540	548	(296)
ENVIRONMENTAL REMEDIATION	LS			(1,095)
	LS			(9,255)
SUBTOTAL				224,841
CONTINGENCY (5.0%)				11,242
TOTAL CONTRACT COST				236,083
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				15,345
TOTAL REQUEST				251,428
TOTAL REQUEST (ROUNDED)				251,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,255)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Extend existing Runway 16/34 and add supporting taxiways, as well as provide shoulders, grading, drainage, arm/disarm pad, lighting vault, airfield lighting, and instrument landing system. Runway alteration includes repair of existing runway surface. Site				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA			4. PROJECT TITLE PDI: EXTEND RUNWAY 16/34, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 107,500	
<p>improvements include extensive excavation, hauling, and dumping due to site topography. A portion of the existing runway shall be regraded to raise the centerline profile to reduce earthwork for the runway extension. Site improvements also include removal/re-installation of airfield perimeter fencing and relocation and upgrade of aircraft arresting system. Utility work includes reconfiguring water, electrical, gas, storm water, and communication infrastructure. Road pavement work includes rerouting Airlifter Drive with a new connection to an existing road. Install new airfield lighting vault, airfield lighting, and signs; and upgrade existing lights/signs pursuant to Unified Facilities Criteria 3-535-01 in order for Runway 16 to support precision instrument approach. Lighting and sign upgrade applies to entire length of Runway 16/34, as well as to new taxiways that connect to runway extension. New airfield lighting includes runway centerline lights; touch down zone lights for Runway 16 approach; and visible and infrared assault landing zone lights. Relocate threshold of Runway 34 to allow installation of localizer for instrument landing system. Install generators to provide backup power for airfield lighting and instrument landing system as authorized by Air Force Instruction 32-1062. Environmental remediation includes wetland mitigation of the area in the vicinity of Fish and Triangle Lakes. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project will comply with Department of Defense anti-terrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>				
<p>11. Requirement: 326,902 SM Adequate: 187,546 SM Substandard: 98,875 SM PROJECT: Extend Runway 16/34 REQUIREMENT: This project will extend Runway 16/34 to support an increase in safety and operational capabilities and accommodate the Federal Aviation Agency's increased opposite direction operations restrictions at Joint Base Elmendorf-Richardson. The project will require significant earth movement to extend the runway and comply with Unified Facilities Code 3-260-01 criteria. The runway extension requires the construction of supporting taxiways, shoulders, overrun, and an arm/disarm pad. In addition, the</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA			4. PROJECT TITLE PDI: EXTEND RUNWAY 16/34, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 107,500	
<p>extension involves rerouting Airlifter Drive to the north and updating additional airfield lighting per Unified Facility Code 3-353-01. The proposed action is necessary because there are current safety, operational, and training shortfalls with the existing runways at Joint Base Elmendorf-Richardson.</p> <p>CURRENT SITUATION: Elmendorf Airfield supports permanently assigned F-22, E-3, C-17, and C-12 aircraft, as well as transient C-5, KC-10, and KC-135 aircraft. The north-south runway (Runway 16/34) is 7,500 feet long by 150 feet wide. Due to its short length, large aircraft operating from this runway have a weight restriction that severely limits their ability to carry cargo and fuel. This results in an over-reliance on Runway 06. Therefore, when Runway 06 is closed or unusable for any reason (construction, emergency during takeoff or landing, winds out of limits, etc.), large aircraft operations experience severe mission degradation. On average, Runway 06 is closed one month during the summer for necessary annual repairs due to operating in an arctic location. The current situation imposes serious safety concerns for missions at Joint Base Elmendorf-Richardson. The 2008 Alaska National Airspace System Review identified only one safety concern: conflicts between Elmendorf Runway 06 arrivals and civilian aircraft operating through Ted Stevens Anchorage International Airport. The 2008 Review recommended Elmendorf use Runway 16 as their primary runway; however, this is not possible due to its short length. There have also been a number of near midair collisions, specifically with general aviation traffic from Merrill Field that operates above and below the approach corridor to Runway 06. Without meticulous pre-flight planning, a catastrophic collision could happen. Since January 2016, Air Force pilots have filed 23 Hazardous Air Traffic Reports with the Air Force Safety Center, most of which resulted from getting too close to general aviation traffic while flying approaches to Runway 06. This poses a substantial risk of fatality to military flight crews, civilian pilots, and passengers, in addition to the operational and financial loss from aircraft destruction.</p> <p>IMPACT IF NOT PROVIDED: Without this runway extension, the missions at Joint Base Elmendorf-Richardson will be operating in unsafe conditions, as documented in the 2008 Alaska National Airspace System Review and the 23 Hazardous Air Traffic Reports, which could result in serious crash consequences including human casualties and loss of mission critical aircraft. In addition, whenever Runway 06 is closed, large aircraft operations are severely restricted by the shorter secondary runway limiting Joint Base Elmendorf-Richardson's capacity to project power into the Indo-Pacific Command Area of Responsibility (INDOPACOM AOR). If Runway 06 was to be shut down for any reason during an INDOPACOM AOR contingency, Joint Base</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA			4. PROJECT TITLE PDI: EXTEND RUNWAY 16/34, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 107,500	
<p>Elmendorf-Richardson would not be a reliable logistics gateway to the Pacific. Canceled missions, safety problems, and loss of training will result in operational failure.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084 Facility Requirements and Unified Facilities Criteria 3-260-01 Airfield and Heliport Planning and Design. This project does not fall within or partly within the 100-year flood plain. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from Air Force Civil Engineer Center or the United States Army Corps of Engineers. Costs for Supporting Facilities in Block 9 exceed Primary Facilities by more than 25% due to higher terrain elevation at the north end of Runway 16/34; consequently, this site condition necessitates extensive earthwork. Expansion of the runway to the south is not feasible due to existing off-base residential developments, an existing railroad, and protected natural resources. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>673d Air Base Wing Civil Engineer: (907) 552-3007.</p> <p>RUNWAY (111-111) Add: 40,481 SM = 435,734 Square Feet;</p> <p>TAXIWAY (112-211) Add: 54,219 SM = 583,608 Square Feet;</p> <p>RUNWAY (111-111) Alter: 98,875 SM = 1,064,282 Square Feet;</p> <p>TAXIWAY (112-211) Alter: 18,471 SM = 198,820 Square Feet;</p> <p>ARMING AND DISARMING PADS (116-661): 10,904 SM = 117,370 Square Feet;</p> <p>OVERRUN, PAVED (111-115) Add: 13,936 SM = 150,006 Square Feet;</p> <p>OVERRUN, PAVED (111-115) Alter: 8,124 SM = 87,446 Square Feet;</p> <p>SHOULDER, PAVED (116-642) Add: 62,553 SM = 673,315 Square Feet;</p> <p>SHOULDER, PAVED (116-642) Alter: 66,936 SM = 720,493 Square Feet.</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA		4. PROJECT TITLE PDI: EXTEND RUNWAY 16/34, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 107,500
JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.			
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	10-JUN-19		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	100%		
(e) Date 35% Designed	30-MAR-20		
(f) Date Design Complete	30-SEP-21		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(b) Where Design Was Most Recently Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	14,880		
(b) All Other Design Costs	2,310		
(c) Total	17,190		
(d) Contract	11,190		
(e) In-house	6,000		
(4) Construction Contract Award	22-JUL		
(5) Construction Start	22-AUG		
(6) Construction Completion	26-JAN		
b. Equipment associated with this project provided from other appropriations:			
		FISCALYEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
INSTRUMENT LANDING SYSTEM	3080	2025	1,255

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AIR FORCE BASE SITE #1 ALASKA		4. PROJECT TITLE PDI: EXTEND RUNWAY 16/34, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER FXSB143004	8. PROJECT COST (\$000) AUTH: 0 APPR: 107,500

c. Title, Authorization, and Appropriation Summary:

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2022 Enacted	251,000	79,000	79,000
Cost Variation MAY 22	84,484	0	0
FY2023 Enacted	0	100,000	100,000
FY2024 Budget Request	0	107,500	107,500
Total	335,484		286,500

Project: PDI: Extend Runway 16/34, Inc 3, JB Elmendorf-Richardson

Project Spending Plan

As of: 21-Feb-23

All Cost in thousands (\$000)

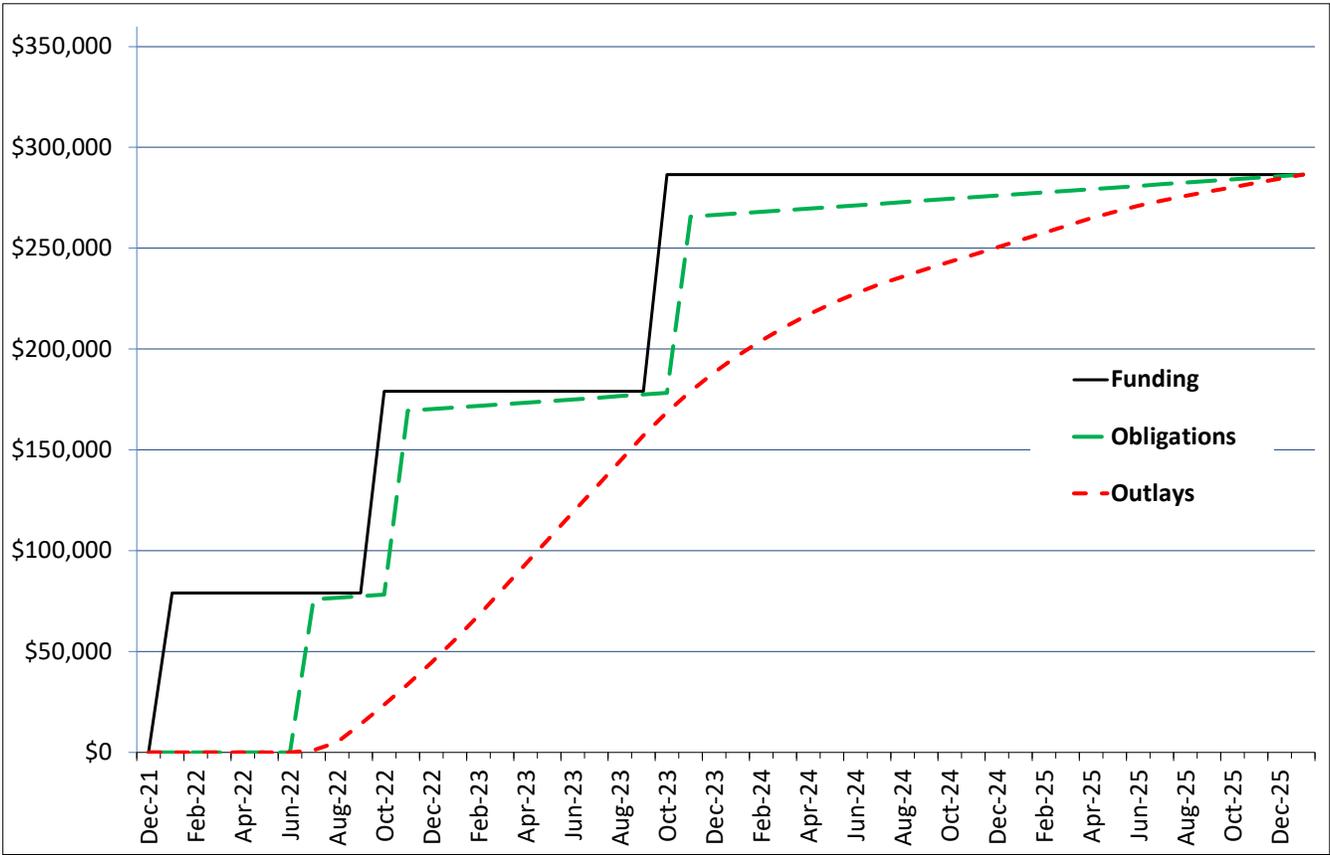
Chart Begin Dec-21	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Dec-21	-	-	-	-	-	-
Jan-22	79,000	79,000	-	-	-	-
Feb-22	-	79,000	-	-	-	-
Mar-22	-	79,000	-	-	-	-
Apr-22	-	79,000	-	-	-	-
May-22	-	79,000	-	-	-	-
Jun-22	-	79,000	-	-	-	-
Jul-22	-	79,000	75,788	75,788	1,000	1,000
Aug-22	-	79,000	803	76,591	4,000	5,000
Sep-22	-	79,000	803	77,394	9,000	14,000
Oct-22	100,000	179,000	803	78,197	9,540	23,540
Nov-22	-	179,000	91,167	169,364	10,112	33,652
Dec-22	-	179,000	803	170,167	10,719	44,372
Jan-23	-	179,000	803	170,970	11,362	55,734
Feb-23	-	179,000	803	171,773	12,044	67,778
Mar-23	-	179,000	803	172,576	12,767	80,545
Apr-23	-	179,000	803	173,379	12,767	93,311
May-23	-	179,000	803	174,182	12,767	106,078
Jun-23	-	179,000	803	174,985	12,767	118,845
Jul-23	-	179,000	803	175,788	12,767	131,611
Aug-23	-	179,000	803	176,591	12,767	144,378
Sep-23	-	179,000	803	177,394	12,767	157,145
Oct-23	107,500	286,500	803	178,197	11,490	168,635
Nov-23	-	286,500	87,425	265,622	10,341	178,976
Dec-23	-	286,500	803	266,425	9,307	188,282
Jan-24	-	286,500	803	267,228	8,376	196,659
Feb-24	-	286,500	803	268,031	7,539	204,197
Mar-24	-	286,500	803	268,834	6,785	210,982
Apr-24	-	286,500	803	269,637	6,106	217,088
May-24	-	286,500	803	270,440	5,496	222,584
Jun-24	-	286,500	803	271,243	4,946	227,530
Jul-24	-	286,500	803	272,046	4,451	231,981
Aug-24	-	286,500	803	272,849	4,006	235,988
Sep-24	-	286,500	803	273,652	3,606	239,593
Oct-24	-	286,500	803	274,455	3,606	243,199
Nov-24	-	286,500	803	275,258	3,606	246,805
Dec-24	-	286,500	803	276,061	3,606	250,411
Jan-25	-	286,500	803	276,864	3,606	254,016
Feb-25	-	286,500	803	277,667	3,606	257,622
Mar-25	-	286,500	803	278,470	3,606	261,228
Apr-25	-	286,500	803	279,273	3,606	264,833
May-25	-	286,500	803	280,076	3,245	268,078
Jun-25	-	286,500	803	280,879	2,921	270,999
Jul-25	-	286,500	803	281,682	2,629	273,628
Aug-25	-	286,500	803	282,485	2,366	275,993
Sep-25	-	286,500	803	283,288	2,129	278,122
Oct-25	-	286,500	803	284,091	2,129	280,251
Nov-25	-	286,500	803	284,894	2,129	282,381
Dec-25	-	286,500	803	285,697	2,129	284,510
Jan-26	-	286,500	803	286,500	1,867	286,500

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2022.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in July 2022 and contract completion Jan 2026; duration 43 months. Outlay rate reflects rapid purchase of materials upon award and extensive earthwork during the first winter, followed by seasonally appropriate work through construction completion.

PDI: Extend Runway 16/34, Inc 3, JB Elmendorf-Richardson



1. COMPONENT AIR FORCE		FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION MACDILL AIR FORCE BASE, FLORIDA					4. COMMAND AIR MOBILITY COMMAND					5. AREA CONSTRUCTION COST INDEX 0.88	
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-SEP-22	295	1,967	441	0	0	0	2,881	3,867	1,379	10,830
b. END FY		295	1,967	441	0	0	0	2,881	3,867	1,379	10,830
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										5,866	
b. INVENTORY TOTAL AS OF 30-SEP-22										2,773,649.00	
c. AUTHORIZATION NOT YET IN INVENTORY										3,100.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										131,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										392,500.00	
h. GRAND TOTAL										3,300,249.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY			b. COST (\$000)			c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE						(1) START	(2) COMPLETE	
211-159	KC-46A ADAL AIRCRAFT CORROSION CONTROL		1,050 SM			25,000			05/22	06/23	
211-111	KC-46A ADAL AIRCRAFT MAINTENANCE HANGAR		1,050 SM			27,000			05/22	06/23	
211-179	KC-46A ADAL FUEL SYSTEM MAINTENANCE DOCK		1,050 SM			18,000			05/22	06/23	
113-321	KC-46A ADAL APRON & HYDRANT FUELING PITS		21,953 SM			61,000			05/22	06/23	
9. FUTURE PROJECTS											
N/A											
10. MISSION OR MAJOR FUNCTIONS											
MacDill Air Force Base includes 28 associate units from all branches of service to include U.S. Central Command, U.S. Special Operations Command, and the 927th Air Refueling Wing. The 6th Air Refueling Wing is organized into five groups: Operations, Maintenance, Mission Support, Medical, and the Wing Staff. The presence of these two unified commands and other Mission Teammates creates a unique multi-service community at MacDill, with all branches of service represented. MacDill is an Air Force Base, but it is also home to many soldiers, sailors, Marines and coast guardsman.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL AIRCRAFT CORROSION CONTROL		
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER NVZR244601	8. PROJECT COST (\$000) 25,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				
ADD AIRCRAFT CORROSION CONTROL (211-159)	SM	1,050	9,737	20,559 (10,224)
ALTER AIRCRAFT CORROSION CONTROL (211-159)	SM	6,476	1,555	(10,070)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(265)
SUPPORTING FACILITIES				
SITE PREPARATION	LS			2,121 (1,720)
SITE IMPROVEMENTS	LS			(19)
UTILITIES	LS			(382)
SUBTOTAL				
CONTINGENCY (5%)				
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				
DESIGN DURING CONSTRUCTION (0.6% OF SUBTOTAL)				
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				
10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project will construct an extension to allow full-in capability for the KC-46A aircraft and alter within existing corrosion control hangar to enable corrosion control operations for the KC- 46A. The addition will be located on the northwest (flightline) side of the hangar to enable installation of a tail door with an extension to accommodate KC-46A tail height and meet upward door clearance requirements. Construction of the hangar extension includes a reinforced foundation, concrete floor slab, structural steel frame with metal siding façade, hangar doors with windows, and a built-up roof. Alteration work includes interior renovations to accommodate corrosion control, composite, paint, and sheet metal shops and wash rack operations on the first floor. Also included is an alteration of the interior wall nearest to the aircraft nose to achieve minimum safety clearance, addition of a fire protection system to the hangar bay, reconfiguration of lighting, a fall restraint system to accommodate KC-46A aircraft, and replacement of existing Heating, Ventilation, and Air Conditioning chillers and antiquated interior electrical panels. The project includes site improvements, to include installation of underground piping from the fire suppression pump house to Hangar 1, relocation of a privatized water main on the flightline side of the hangar, and all other supporting work necessary to make a complete and usable facility. Additional site preparation is required for any soil/sediment or ground water that is disturbed during construction to adhere to the MacDill Environmental Restoration Program Contaminated Media Disposal Guidelines document. Soil/sediment				

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3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL AIRCRAFT CORROSION CONTROL	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER NVZR244601	8. PROJECT COST (\$000) 25,000
<p>being removed during construction must be containerized or stockpiled, then sampled for PFAS Chemicals to determine the course of action for disposal. Groundwater being removed (dewatering) during construction must be containerized, then sampled for PFAS Chemicals to determine the course of action for disposal. Additional site preparation includes hangar slab demo and excavation around tension ties and hangar foundation elements. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01 and Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements.</p> <p>Air Conditioning: 50 Tons</p>			
<p>11. Requirement: 1,050 SM Adequate: 0 Substandard: 6,476 SM</p> <p>SM PROJECT: KC-46A ADAL Corrosion Control</p> <p>REQUIREMENT: The Air Force designated MacDill Air Force Base as the preferred alternative for the sixth KC-46A Main Operating Base 6 in support of Air Mobility Command's mission. A hangar extension is required to completely enclose the aircraft. An adequately sized and configured corrosion control hangar is required for aircraft inspection, corrosion treating, corrosion repair, and aircraft wash operations. These maintenance actions are necessary to prevent aircraft damage and maintain protective coating/corrosion control systems for the KC-46A. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The corrosion control hangar does not meet the 3 Meter (10 Linear Feet) "clearance top of tail" (un-jacked) requirement and the corrosion control shops are undersized. In addition, the fire suppression system does not meet the 2021 International Fire Code, Unified Facilities Criteria 03-600-01 Fire Protection Engineering for Facilities, or address the fire safety deficiencies according to Air Force Instruction 32-1041 Planning and Programming Fire Safety Deficiency Correction Projects. The interior electrical panels are 21 years old, and are failing. The Heating, Ventilation, and Air Conditioning chillers are over 14 years old and have come to the end of their useful life. Lighting and fall restraint system in the hangar bay are configured for KC-135 aircraft and does not meet KC-46 airframe requirements. The initial operational capability will limit the use of the existing hangar to a KC-46 nose dock configuration limited by weather conditions. In addition all aircraft maintenance will be suspended when lightning is within five (5) miles of the hangar. This project is part of the MacDill Main Operating Base 6 beddown for the new KC-46A tanker weapon system.</p> <p>IMPACT IF NOT PROVIDED: Without the hangar extension project, the KC-46A will not be fully enclosed. Also, an adequate corrosion control facility will not be available to support aircraft corrosion control requirements and negatively impact aircraft sortie production rates due to inadequate maintenance. Furthermore, the facility, aircraft and maintenance personnel will continue to operate at risk due to the lack of fire suppression in the hangar bay, inadequate lighting, improperly configured fall restraint system, and antiquated electrical panels. Facility air quality and temperature and humidity control will continue to suffer due to poorly functioning</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL AIRCRAFT CORROSION CONTROL	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER NVZR244601	8. PROJECT COST (\$000) 25,000

heating, ventilation, and air conditioning chillers.

ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and shall employ the standard facility design Air Force Corrosion Control/Fuel Cell Maintenance Hangar Facility. All reasonable alternatives were considered during the development of this project to include status quo, add/alter and new construction. Add/alter is the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facility and any flood-susceptible utilities above the 100-year flood level. This is a mission-critical facility. The facility and any flood-susceptible utilities will be constructed a minimum of three feet above the 100-year flood elevation. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.

6th Air Refueling Wing Base Civil Engineer: (813) 828-3577

Add Aircraft Corrosion Control: 1,050 SM = 11,302 Square Feet;

Alter Aircraft Corrosion Control: 6,476 SM = 69,707 Square Feet.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL AIRCRAFT CORROSION CONTROL	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER NVZR244601	8. PROJECT COST (\$000) 25,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	09-MAY-22		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	65%		
(e) Date 35% Designed	15-AUG-22		
(f) Date Design Complete	30-JUN-23		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(b) Where Design Was Most Recently Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	1,500		
(b) All Other Design Costs	750		
(c) Total	2,250		
(d) Contract	1,875		
(e) In-house	375		
(4) Construction Contract Award	24-APR		
(5) Construction Start	24-MAY		
(6) Construction Completion	26-AUG		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	3080	2026	700
COMMUNICATION EQUIPMENT	3400	2026	150

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL AIRCRAFT MAINTENANCE HANGAR			
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER NVZR244602	8. PROJECT COST (\$000) 27,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					22,430
ADD HANGAR, MAINTENANCE (211-111)		SM	1,050	9,844	(10,336)
ALTER HANGAR, MAINTENANCE (211-111)		SM	6,478	1,826	(11,829)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(265)
SUPPORTING FACILITIES					2,026
SITE PREPARATION		LS			(1,640)
SITE IMPROVEMENTS		LS			(73)
UTILITIES		LS			(313)
SUBTOTAL					24,456
CONTINGENCY (5%)					1,223
TOTAL CONTRACT COST					25,679
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,669
DESIGN DURING CONSTRUCTION (0.6% OF SUBTOTAL)					147
TOTAL REQUEST					27,495
TOTAL REQUEST (ROUNDED)					27,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(850)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Alter and add an extension to the existing aircraft maintenance hangar to allow full- in aircraft maintenance (including brake/hydraulic repair) capability for the KC-46A aircraft. The addition will be located on the southwest (flightline) side of the hangar to enable installation of a tail door with an extension to accommodate KC-46A tail height and meet the upward door clearance requirements. Construction of the hangar extension includes a reinforced foundation, concrete floor slab, structural steel frame with metal siding façade, hangar doors with windows, and a built-up roof. Alteration work includes interior renovations to accommodate hydraulic/brake, boom and Wing Air Refueling Pod maintenance, and administrative shops on the first floor. Maintenance area will be established on the northeast side of the aircraft nose while Wing Air Refueling Pod storage will be established on the northwest side. Work also includes the addition of a fire protection system to the hangar bay, reconfiguration of lighting, fall restraint system to accommodate KC-46A aircraft, and replacement of existing Heating Ventilation and Air Conditioning chillers and antiquated interior electrical panels. The project includes site improvements, such as installation of underground piping from the fire suppression pump house to Hangar 4 and relocation of a privatized 6" water main on the flightline side of the hangar, and all other work necessary to make a complete and usable facility. Additional site preparation is required for any soil/sediment or ground water that is disturbed during construction to adhere to the MacDill Environmental Restoration Program Contaminated Media Disposal Guidelines document.					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL AIRCRAFT MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER NVZR244602	8. PROJECT COST (\$000) 27,000
<p>Soil/sediment being removed during construction must be containerized or stockpiled, then sampled for PFAS Chemicals to determine the course of action for disposal. Groundwater being removed (dewatering) during construction must be containerized, then sampled for PFAS Chemicals to determine the course of action for disposal. Additional site preparation includes hangar slab demo and excavation around tension ties and hangar foundation elements. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facility Criteria 4-010-01 and Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements.</p> <p>Air Conditioning: 50 Tons</p>			
<p>11. Requirement: 1,050 SM Adequate: 0 SM Substandard: 6,478 SM</p> <p>PROJECT: KC-46A ADAL Aircraft Maintenance Hangar</p> <p>REQUIREMENT: The Air Force designated MacDill Air Force Base as the preferred alternative for the sixth KC-46A Main Operating Base 6 in support of Air Mobility Command's mission. A hangar extension is required to completely enclose the aircraft. An adequately sized and configured general purpose maintenance hangar with a brake/hydraulic repair function is required to support the KC-46A. This shop should not be shared with other weapon systems because the KC-46A uses Skydrol hydraulic fluid, requiring segregation of test equipment. The facility must be able to support the assigned aircraft and provide proper fire protection systems, lighting and fall restraint system configured for KC-46A aircraft, and updated electrical panels in accordance with in accordance with Air Force Manual 32-1084 and to meet National Fire Protection Act 70 to ensure safety/protection of personnel, equipment and aircraft. A Heating Ventilation and Air Conditioning system with properly functioning chillers is required to ensure adequate air quality and temperature and humidity control in the facility. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: Currently located in Hangar 2, the existing hydraulic shop/brake shop supports the KC-135 and cannot support the KC-46A size requirements (significant increase due to boom and Wing Air Refueling Pod maintenance concepts) and new Skydrol requirement. Hangar 4 does not meet the 3 Meter (10 Linear Feet) "clearance top of tail" (un-jacked) requirement. In addition, the fire suppression system does not meet the 2018 International Fire Code, Unified Facilities Criteria 03-600-01 Fire Protection Engineering for Facilities, or address the fire safety deficiencies according to Air Force Instruction 32-1041 Planning and Programming Fire Safety Deficiency Correction Projects. The interior electrical panels are 21 years old, and are failing at a Condition Index of 61. The heating, ventilation, and air conditioning chiller was installed in 2008 and cannot meet the maintenance facility requirements. The initial operational capability will limit the use of the existing hangar to a KC-46 nose dock configuration and leaving boom and Wing Air Refueling Pod maintenance limited by weather conditions. In addition all aircraft maintenance will be suspended when lightning is within five (5) miles of the hangar.</p> <p>IMPACT IF NOT PROVIDED: Without the hangar extension project, the KC-46A will not be fully enclosed. Also, the current hydraulic/brake shop cannot support the KC-46A hydro</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL AIRCRAFT MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER NVZR244602	8. PROJECT COST (\$000) 27,000
<p>SE and Skydrol requirements. Aircraft hydraulic boom and Wing Air Refueling Pod maintenance would be severely impacted if a new hydraulic/brake shop is not built. Furthermore, the facility, aircraft and maintenance personnel will continue to operate at risk due to the lack of fire suppression in the hangar bay, inadequate lighting, improperly configured fall restraint system, and antiquated electrical panels. Facility air quality and temperature and humidity control will continue to suffer due to poorly functioning Heating Ventilation and Air Conditioning chillers.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and shall employ the standard facility design Air Force General Maintenance/Periodic Inspection Hangar. All reasonable alternatives were considered during the development of this project to include status quo, add/alter and new construction. Add/alter is the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project falls within the 100-year flood plain. The risk will be mitigated by constructing any flood-susceptible utilities above the 100-year flood level. This is a mission-critical facility. The facility and any flood-susceptible utilities will be constructed a minimum of three feet above the 100-year flood elevation. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>6th Air Refueling Wing Base Civil Engineer: (813) 828-3577</p> <p>Aircraft Maintenance Hangar: 1,050 SM = 11,302 Square Feet;</p> <p>Alter Aircraft Maintenance Hangar: 6,478 SM = 69,729 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL AIRCRAFT MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER NVZR244602	8. PROJECT COST (\$000) 27,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	09-MAY-22		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	65%		
(e) Date 35% Designed	15-AUG-22		
(f) Date Design Complete	30-JUN-23		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	No		
(b) Where Design Was Most Recently Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	1,620		
(b) All Other Design Costs	810		
(c) Total	2,430		
(d) Contract	2,025		
(e) In-house	405		
(4) Construction Contract Award	24-APR		
(5) Construction Start	24-MAY		
(6) Construction Completion	26-AUG		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	3080	2026	700
COMMUNICATION EQUIPMENT	3400	2026	150

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL APRON & HYDRANT FUELING PITS			
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER NVZR244605	8. PROJECT COST (\$000) 61,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					42,663
ADD APRON (113-321)		SM	21,953	315	(6,915)
ALTER APRON (113-321)		SM	65,856	270	(17,781)
SHOULDER, PAVED (116-642)		SM	7,829	220	(1,722)
TAXIWAY LIGHTING (136-667)		EA	110	29,750	(3,273)
POL HYDRANT FUELING DEFUELING SYS (121-122)		OL	15	864,823	(12,972)
SUPPORTING FACILITIES					11,940
SITE PREPARATION		LS			(1,500)
PAVEMENTS		LS			(10,440)
SUBTOTAL					54,603
CONTINGENCY (5.0%)					2,730
TOTAL CONTRACT COST					57,333
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					3,727
DESIGN DURING CONSTRUCTION (0.8% OF SUBTOTAL)					437
TOTAL REQUEST					61,497
TOTAL REQUEST (ROUNDED)					61,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: On north apron, add 0.4M (15 inches) rigid pavement over base and asphalt shoulder to north apron to accommodate required KC-46A taxi and parking wingtip clearances. Also, on north apron, alter the existing asphalt to 0.4M (15 inches) rigid pavement over base. Work includes installing aircraft hydrant fueling pits and associated fuel infrastructure, to include pump house modifications to support 15 KC-46A aircraft parking spots. The project includes pavement striping, installation of two (2) nose gear mooring points, airfield lighting, communication infrastructure relocation and all other supporting work necessary to make a complete and useable facility. Additional site preparation is required for any soil/sediment or ground water that is disturbed during construction to adhere to the MacDill Environmental Restoration Program Contaminated Media Disposal Guidelines document. Soil/sediment being removed during construction must be containerized or stockpiled, then sampled for perfluoroalkyl and polyfluoroalkyl substance chemicals to determine the course of action for disposal. Groundwater being removed (dewatering) during construction must be containerized, then sampled for perfluoroalkyl and polyfluoroalkyl substance chemicals to determine the course of action for disposal. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per United Facility Criteria 4-010-01 and United Facilities Criteria 1-200-02, High Performance and Sustainable Building					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL APRON & HYDRANT FUELING PITS		
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER NVZR244605	8. PROJECT COST (\$000) 61,000	
Requirements. Air Conditioning: 0 Tons				
<p>11. Requirement: 26,700 SM Adequate: 0 SM Substandard: 72,515 SM</p> <p>PROJECT: KC-46A ADAL Apron & Hydrant Fueling Pits</p> <p>REQUIREMENT: The primary mission of MacDill Air Force Base is to provide aerial refueling capabilities and airlift support anywhere in the world using existing KC-135 aircraft, thereby ensuring global reach for the U.S. Air Force. North Apron supports this mission by providing access to the taxiways, parking, and fueling of assigned aircraft, as well as transient aircraft. The Air Force designated MacDill Air Force Base as the preferred alternative for the sixth KC-46A Main Operating Base. In accordance with Air Force Manual 32-1084, 15 KC-46A parking spots are required along with hydrant fueling pits at each spot. The parking spots and taxi lanes must sustain a maximum KC-46A Aircraft ramp weight of 417,500 pounds. Also, all 15 parking spots must be configured taxi-in/out. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The existing north apron is not configured to support 15 KC-46A parking spots with sufficient wingtip, jet blast separation, and taxi-in/taxi-out capability. Also, the proposed area for parking spots has insufficient weight bearing capacity. Furthermore, the existing aircraft hydrant fueling system is not properly configured to support KC-46A aircraft. This project is part of the MacDill Main Operating Base 6 Beddown for the new KC-46A tanker weapon system.</p> <p>IMPACT IF NOT PROVIDED: The successful beddown and full operational capability of the KC-46A aircraft cannot occur until completion of the apron and hydrant project alterations. The use of multiple tanker trucks to fill KC-46A aircraft will extend refueling time and associated manpower. Additionally, the use of tanker trucks will increase the operational risk associated with maneuvering motored vehicles around aircraft.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards and the Installation Facilities Standards but will not employ a standard facility design because there is no Air Force standard facility design for this project. All reasonable alternatives were considered during the development of this project to include status quo, add/alter and new construction. Add/alter is the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facility and any flood-susceptible utilities above the 100-year flood level. This is a mission- critical facility. The facility and any flood- susceptible utilities will be</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL APRON & HYDRANT FUELING PITS	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER NVZR244605	8. PROJECT COST (\$000) 61,000
<p>constructed a minimum of three feet above the 100-year flood elevation. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Supporting Facilities total exceeds 25% of the Primary Facilities total due to extensive pavements demolition work.</p> <p>6th Air Refueling Wing Base Civil Engineer: (813) 828-3577</p> <p>Add Apron: 21,953 SM = 236,300 Square Feet;</p> <p>Alter Apron: 65,856 SM = 708,867 Square Feet;</p> <p>Shoulder, Paved: 7,829 SM = 84,271 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL APRON & HYDRANT FUELING PITS	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER NVZR244605	8. PROJECT COST (\$000) 61,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	09-MAY-22		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	65%		
(e) Date 35% Designed	15-AUG-22		
(f) Date Design Complete	30-JUN-23		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(b) Where Design Was Most Recently Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000)			
(a) Production of Plans and Specifications	3,660		
(b) All Other Design Costs	1,830		
(c) Total	5,490		
(d) Contract	4,575		
(e) In-house	915		
(4) Construction Contract Award	24-APR		
(5) Construction Start	24-MAY		
(6) Construction Completion	26-AUG		
b. Equipment associated with this project provided from other appropriations: N/A			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL FUEL SYSTEM MAINTENANCE DOCK		
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER NVZR244603	8. PROJECT COST (\$000) 18,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				14,328
ADD FUEL SYSTEM MAINTENANCE DOCK (211-179)	SM	1,050	9,961	(10,459)
ALTER FUEL SYSTEM MAINTENANCE DOCK (211-179)	SM	4,433	813	(3,604)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(265)
SUPPORTING FACILITIES				2,126
SITE PREPARATION	LS			(1,810)
SITE IMPROVEMENTS	LS			(57)
UTILITIES	LS			(115)
DEMOLITION	SM	135	1,067	(144)
SUBTOTAL				16,454
CONTINGENCY (5%)				823
TOTAL CONTRACT COST				17,277
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,123
DESIGN DURING CONSTRUCTION (0.6% OF SUBTOTAL)				99
TOTAL REQUEST				18,499
TOTAL REQUEST (ROUNDED)				18,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(850)
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Add an extension to allow full-in capability for the KC-46A aircraft and alter within existing fuel cell hangar to accommodate KC-46A body fuel tank maintenance and storage at MacDill Air Force Base. The addition will be located on the southwest (flightline) side of the hangar to enable retrofit of the tail door with an extension to accommodate KC-46A tail height and meet upward door clearance requirements. Construction of the hangar extension includes a reinforced foundation, concrete floor slab, structural steel frame with metal siding façade, hangar doors with windows, and a built-up roof. Alteration work includes interior renovation to accommodate body fuel tank storage and maintenance area. Work also includes reconfiguration of fire suppression appurtenances, lighting and fall restraint system to accommodate KC-46A aircraft. The project includes site improvements, such as relocation of a privatized 6" water main on the flightline side of the hangar to move it out from under the proposed hangar extension, and all other work necessary to make a complete and usable facility. Additional site preparation is required for any soil/sediment or ground water that is disturbed during construction to adhere to the MacDill Environmental Restoration Program Contaminated Media Disposal Guidelines document. Soil/sediment being removed during construction must be containerized or stockpiled, then sampled for PFAS Chemicals to determine the course of action for disposal. Groundwater being removed (dewatering) during construction must be containerized, then sampled for PFAS Chemicals to determine the course of action for</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL FUEL SYSTEM MAINTENANCE DOCK	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER NVZR244603	8. PROJECT COST (\$000) 18,000
<p>disposal. Additional site preparation includes hangar slab demo and excavation around tension ties and hangar foundation elements. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01 and Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements.</p> <p>Air Conditioning: 45 Tons</p>			
<p>11. Requirement: 1,050 SM Adequate: 0 Substandard: 4,433 SM</p> <p>SM PROJECT: KC-46A ADAL System Maintenance Dock</p> <p>REQUIREMENT: The Air Force designated MacDill Air Force Base as the preferred alternative for the sixth KC-46A Main Operating Base 6 in support of Air Mobility Command's mission. A hangar extension is required to meet full-in hangar capability. Adequate space for fuel tank body maintenance and storage is required to properly maintain and store fuel tanks used by the KC-46A. This space must be configured as an open fuel tank maintenance facility capable of storing up to 4 body tanks on transportation carts. The KC-46A requires new technology from a fuel bladder system to removable fuel tanks. The tanks storage area will allow for expedited repairs of the fuel system and minimize aircraft down time due to fuel system maintenance. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The existing fuel cell hangar does not meet the 3 Meter (10 Linear Feet) "clearance top of tail" (un-jacked) requirement, nor does it have adequate space to properly store and maintain fuel tanks required to support the KC-46A. Lighting and fall restraint system in the hangar bay are configured for KC-135 aircraft. The initial operational capability will limit the use of the existing hangar to a KC-46 nose dock configuration limited by weather conditions. In addition all aircraft maintenance will be suspended when lightning is within five (5) miles of the hangar. This project is part of the MacDill Main Operating Base 6 Beddown for the new KC-46A tanker weapon system.</p> <p>IMPACT IF NOT PROVIDED: Without the hangar extension project, the KC-46A will not be fully enclosed. Also, maintenance personnel will not be able to provide the required maintenance and storage of essential fuel systems for the new KC-46A aircraft. Ready fuel tanks will have to be stored outside and exposed to the elements requiring additional time to maintain the tanks, severely affecting the ability to generate mission ready aircraft. In addition, exposure to the elements will decrease the useable life of the fuel tanks and accelerate additional corrosion and degradation of the tanks. Furthermore, the facility, aircraft and maintenance personnel will continue to operate at risk due to improperly configured fall restraint system.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and shall employ the standard facility design Air Force Corrosion Control/Fuel Cell Maintenance Hangar Facility. All reasonable alternatives were considered during the development of this project to include status quo, add/alter and new construction. Add/alter is the only viable option to meet this requirement.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL FUEL SYSTEM MAINTENANCE DOCK	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER NVZR244603	8. PROJECT COST (\$000) 18,000
<p>Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facility and any flood-susceptible utilities above the 100-year flood level. This is a mission-critical facility. The facility and any flood susceptible utilities will be constructed a minimum of three feet above the 100-year flood elevation. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>6th Air Refueling Wing Base Civil Engineer: (813) 828-3577</p> <p>System Maintenance Dock: 1,050 SM = 11,302 Square Feet</p> <p>System Maintenance Dock: 4,433 SM = 47,719 Square Feet</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION MACDILL AIR FORCE BASE MACDILL AIR FORCE BASE SITE #1 FLORIDA		4. PROJECT TITLE KC-46A ADAL FUEL SYSTEM MAINTENANCE DOCK	
5. PROGRAM ELEMENT 41221F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER NVZR244603	8. PROJECT COST (\$000) 18,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	09-MAY-22		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	65%		
(e) Date 35% Designed	15-AUG-22		
(f) Date Design Complete	30-JUN-23		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	No		
(b) Where Design Was Most Recently Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000)			
(a) Production of Plans and Specifications	1,020		
(b) All Other Design Costs	510		
(c) Total	1,530		
(d) Contract	1,275		
(e) In-house	255		
(4) Construction Contract Award	24-APR		
(5) Construction Start	24-MAY		
(6) Construction Completion	26-AUG		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	3080	2026	700
COMMUNICATION EQUIPMENT	3400	2026	150

1. COMPONENT AIR FORCE		FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE, FLORIDA					4. COMMAND U.S. SPACE FORCE			5. AREA CONSTRUCTION COST INDEX 0.95			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		113	533	1,408	211	561	614	39	92	592	4,163
b. END FY		113	533	1,408	211	561	614	39	92	592	4,163
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										22,828	
b. INVENTORY TOTAL AS OF 30-SEP-22										4,524,124.00	
c. AUTHORIZATION NOT YET IN INVENTORY										97,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										27,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										0.00	
h. GRAND TOTAL										4,648,124.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
730-873	Commercial Vehicle Inspection		314 SM		15,000	12/18	09/19				
131-111	Consolidated Communications Center, CTC		8,382 SM		15,000	07/21	11/22				
872-247	Final Denial Barriers, South Gate		40 SM		12,000	12/18	04/21				
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJOR FUNCTIONS The Space Launch Delta 45 provides support to over 74 mission partners and tenants at Patrick Space Force Base and Cape Canaveral Space Force Station. It provides mission-ready forces to safely execute and maintain spacelift operations and operate, maintain, and secure the Eastern Range. Space Launch Delta 45 supports ballistic missile test launches, aircraft tests, and other ballistic munitions evaluations. It also supports civil and commercial spacelift operations licensed by the Federal Aviation Administration and other space launch activities in accordance with National Space Policy and with the provision of public law.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT U.S. SPACE FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE # 1 FLORIDA			4. PROJECT TITLE: COMMERCIAL VEHICLE INSPECTION	
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 730-837	7. PROJECT NUMBER SXHT153003	8. PROJECT COST (\$000) 15,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				
SECURITY FORCES ENTRY CONTR BLDG (730-837)	SM	314	29,407	11,346 (9,234)
ACCESS CONTROL FACILITY (730-839)	SM	5	12,000	(60)
MECHANICAL SECURITY BARRICADES (872-300)	EA	2	452,500	(905)
ROAD (851-147)	SM	8,541	105	(897)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				
DEMOLITION	SM	55	345	1,609 (19)
PAVEMENTS	LS			(236)
SITE IMPROVEMENTS	LS			(793)
UTILITIES	LS			(344)
PASSIVE FORCE PROTECTION	LS			(181)
COMMUNICATIONS	LS			(36)
SUBTOTAL				
CONTINGENCY (5.0%)				
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				
DESIGN/BUILD - DESIGN COST (4% OF SUBTOTAL)				
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				
10. DESCRIPTION OF PROPOSED CONSTRUCTION: This project will construct a facility for large commercial vehicles which includes a new commercial vehicle inspection area, entry control building, final denial barriers, access control, a perimeter wall and modifications to the existing road network. Construction will consist of reinforced concrete slabs & foundations, structural steel, reinforced concrete walls, pre-engineered roof structure and Spanish style, clay S-tile roofs. Existing Anvil Road, Forest Lane, and State Road A1A roadways will be modified to meet current standards, including reconfiguration to include necessary acceleration/deceleration/turning lanes. The project will include all utilities, site improvements, pavements, communications infrastructure, active & passive security infrastructure, cybersecurity, transfer switches and connections to an emergency power source and all other supporting infrastructure necessary for a complete and useable facility. This project includes demolition of two facilities				

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3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE # 1 FLORIDA		4. PROJECT TITLE: COMMERCIAL VEHICLE INSPECTION	
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<p>building 935 (40 SM) & building 953 (15 SM) for a total of 55 SM. The facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01. Facility design and construction shall follow Patrick Space Force Base Installation Facility Standards.</p> <p>Air Conditioning: 5 Tons</p>			
<p>11. REQUIREMENT: 314 SM ADEQUATE: 0 SUBSTANDARD: 0</p> <p>PROJECT: Commercial Vehicle Inspection</p> <p>REQUIREMENT: A Department of Defense Anti-Terrorism/Force Protection compliant Entry Control Facility for large commercial vehicles to ensure safety and security of Patrick Space Force Base and personnel. Entry Control Facilities for commercial vehicles are required to have a entry control, commercial vehicle inspection areas, access control, and barriers to meet Air Force Dynamic Prototype Design criteria. The road network must support access control, traffic queueing, traffic stacking and final denial. This is not a tenant or service supported requirement.</p> <p>CURRENT SITUATION: The current Commercial Vehicle Entry Control Facility at Patrick Space Force Base is non-compliant with Department of Defense Anti-Terrorism/Force Protection requirements resulting in several Joint Service Integrated Vulnerability Assessment write-ups. Existing facilities were installed as temporary structures after September 11, 2001 as a means to mitigate security vulnerabilities. The temporary commercial vehicle inspection facility is beyond its useful life and does not meet Anti-Terrorism/Force Protection requirements. The temporary facility does not have any screening capabilities or secure structure for waiting patrons while vehicles are inspected. Currently, there is no permanent commercial vehicle inspection structure at Patrick Space Force Base. Existing barriers are not fast-acting and crash rated barriers do not meet final denial barrier criteria. The existing barriers are normally in an up position and lowered only for individual vehicles that have been inspected and cleared. Constant manual operation has resulted in excessive wear on the existing barriers and they have exceeded their useful life and are in need of replacement. The existing facilities do not have proper setback distances from State Road A1A and the road network is not configured correctly to meet all Entry Control Facility requirements with adequate Approach, Safety, Access Control and Response Zones. A lack of adequate traffic approach and queueing space causes large commercial vehicles to back-up onto</p>			

1. COMPONENT U.S. SPACE FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE # 1 FLORIDA		4. PROJECT TITLE: COMMERCIAL VEHICLE INSPECTION	
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 730-837	7. PROJECT NUMBER SXHT153003	8. PROJECT COST (\$000) 15,000
<p>busy State Road A1A at peak traffic times thus resulting in major safety and public health concerns.</p> <p>IMPACT IF NOT PROVIDED: The Patrick Space Force Base mission will continue to be severely impacted because the existing Entry Control Facilities remain out of compliance with Anti-Terrorism/Force Protection requirements thus increasing potential for a security incident. If not corrected, entry control facilities will continue to operate with workarounds that are out of compliance with Anti-Terrorism/Force Protection standards and which pose significant risk to the base populace. Public health and safety will remain at risk due to large vehicles backing up onto busy State Road A1A.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This project shall conform to criteria established in the Air Force Corporate Facilities Standards, the scope and criteria specified in Air Force Manual 32-1084, Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within, or partially within, the 100-year flood plain. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>Security Forces Entry Control Building: 314 SM = 3,380 Square Feet;</p> <p>Access Control Facility: 5 SM = 54 Square Feet;</p> <p>Road: 8,541 SM = 91,935 Square Feet;</p> <p>Demolition: 55 SM = 592 Square Feet.</p>			

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JOINT USE CERTIFICATION: This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation will benefit by completion of this project.

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3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE #1 FLORIDA		4. PROJECT TITLE: CONSOLIDATED COMMUNICATIONS CENTER, CTC		
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 131-111	7. PROJECT NUMBER SXHT023004	8. PROJECT COST (\$000) AUTH: 0 APPR: 15,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				66,462
TELECOMMUNICATIONS FACILITY (131-111)	SM	8,382	6,822	(57,182)
BASE ENG MAINT SHOP/COVER STOR FAC (219-944)	SM	1,084	3,012	(3,265)
CONTROLLED HUMIDITY WAREHOUSE (442-421)	SM	1,540	2,259	(3,479)
OP. STORAGE, DIESEL, ABOVE GROUND (124-134)	GA	8,000	8	(64)
ICD 705 PREMIUM	LS			(2,338)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(134)
SUPPORTING FACILITIES				19,998
FACILITY DEMOLITION	SM	4,727	156	(737)
SITE REMEDIATION	LS			(701)
SITE IMPROVEMENTS	LS			(3,356)
UTILITIES	LS			(2,004)
PAVEMENTS	LS			(1,886)
COMMUNICATIONS INFORMATION SYSTEM WIRING	LS			(9,360)
COMMUNICATIONS TRANSMITTER/RECEIVER TOWER	LS			(454)
BACK-UP POWER GENERATORS	KW	750	2	(1,500)
SUBTOTAL				86,460
CONTINGENCY (5.0%)				4,323
TOTAL CONTRACT COST				90,783
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				5,901
TOTAL REQUEST				96,684
TOTAL REQUEST (ROUNDED)				97,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(8,744)
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
<p>Work to be performed consists of providing all labor, equipment, and materials to construct an 8,382 Square Meters (SM), three-story Space Communications facility with a Joint Operations Center and Command Post. The Project will also include Secure facilities within various spaces in accordance with Intelligence Community Directive 705. Facility to withstand Risk Category IV, 170 miles per hour fastest-gust Hurricane Criteria. Facility design and construction shall follow Patrick Space Force Base Installation Facility Standards, Air Force Manual 32-1084 and Air Force Design Guides for Telecommunications Facilities. All critical infrastructure shall be installed on the upper floors to minimize</p>				

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<p>potential hurricane and storm surge damage. The project will provide security and fire suppression systems, parking, roads, pavement, lightning protection, signage, exterior lighting, utilities, above ground cable vault and a communications trunk cable plant. Adequately sized backup generator(s) and a fuel tank are also required. This project is authorized a generator, per Air Force Instruction 32-1062. The construction site will be raised to a minimum of ten feet above mean sea level to mitigate hurricane storm surge. Construction will consist of reinforced concrete foundations, floors, columns & roof & precast concrete walls. Supporting facility requirements exceed primary facility requirements by more than 25% due to the significant amount of communications systems wiring required to operate facility systems. The facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01. Air conditioning loads are calculated to provide cooling and dehumidification which meets specific needs of specialized communication, networking and data equipment. Additionally, the project will replace an existing transmitter, receiving tower, a Civil Engineer Maintenance/ Covered Storage Shop Facility. The project will demolish ten facilities including Buildings 507 (119 SM), 511 (1,464 SM), 513 (20 SM), 515 (315 SM), 516 (53 SM), 517 (12 SM), 522 (1,038 SM), 523 (1,176 SM), 524 (109 SM) and 693 (421 SM).</p> <p>Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 220 Tons</p>				
<p>11. REQUIREMENT: 8,382 SM ADEQUATE: 0 SM SUBSTANDARD: 4,727 SM</p> <p>PROJECT: Consolidated Communications Center</p> <p>REQUIREMENT: The current Communications Center must be relocated out of the airfield clear zone per land use recommendations of Unified Facility Criteria 3-260-01, paragraph 3-11. Facility will be a modern critical network operations and control center building housing Space Launch Delta 45 Communications Squadron Operations Center that answers to and is controlled by Peterson Space Force Base. The mission of the 45th Space Communications Squadron requires the facility to withstand a hurricane per the latest International Building Code</p>				

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<p>2018 Requirements, comply with current Anti-Terrorism / Force Protection criteria, be sited outside of flood zone and storm surge potential areas, and to provide an ability to eliminate communications center downtime due to flooding. The project will consolidate all communications functions at Patrick Space Force Base into one facility, including the Command Post and Joint Operations Center. The new facility shall be designed & built-in accordance with Unified Facilities Criteria 4-030-01 and 1-200-02. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>CURRENT SITUATION: Currently building 533 is the main communications hub at Patrick Space Force Base and critical to the space launch mission. It is a critical link between Cape Canaveral Space Force Station Range Communications Facility and other Eastern Range sites which support launches, telemetry, Global Positioning Satellites and radars. The facility also supports Air Force Technical Applications Center mission and connections to world-wide sites, the 920th Rescue Wing combat search and rescue mission, as well as Department of State, Defense Information Systems Agency, Space Systems Command and provides critical network operations and control center switch provides services to Patrick Space Force Base, Cape Canaveral Space Force Station, Ascension Auxiliary Airfield and remainder of Eastern Range. It is a point of presence for all communications assets such as internet connections, fire walls, data server banks, cyber security, and classified data networks. The current electrical service cannot support future mission needs.</p> <p>The current cable plant system which services the base has no excess capacity. The existing facility is over 50 years old, is located in an airfield clear zone and is incapable of further expansion or accommodating system modernization/mission growth and does not meet current Antiterrorism & Force Protection criteria. The close proximity of other facilities prevents appropriate clear/perimeter standoff zones. The 45th Space Communications Squadron is spread out across multiple facilities on base. In recent years, Space Launch Delta 45 has been impacted by multiple Hurricanes. The new hurricane-rated facility will protect critical communications infrastructure while also providing Space Launch Delta 45 a hurricane resistant facility with a Joint Operations Center and Command Post capability.</p> <p>IMPACT IF NOT PROVIDED: Patrick Space Force Base will remain vulnerable to</p>				

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<p>hurricanes, knocking out Eastern Range communications until water can be pumped out and power restored. The existing Joint Operations Center is within a potential storm surge area. New facility consolidates 45 Space Communications Services, 920th Telecommunication Flights, Joint Operations Center & Command Post into a single facility with increased efficiency & economy. Resilience of critical network operations and control center will continue as substandard if not replaced. Heavy rains cause operations to cease while pumps get rid of water within the cable vault. In event of a storm event such as a major hurricane, vault floods and pumps are unable to keep cable vault dry. Subsequently, major communications for Eastern Range launch missions and worldwide communications for crucial national security missions of Air Force Technical Applications Center, 920th Rescue Squadron, Department of State, Defense Information Systems Agency and Space Systems Command will be adversely impacted and or disrupted. Launch operations capability for Eastern Range and Cape Canaveral Space Force Station will also be negatively impacted if secure and reliable communications support cannot be provided. Additionally, Command Post, Hurricane Response team, Joint Operations Center will operate from alternate locations off Installation, delaying response times.</p> <p>ADDITIONAL: All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A formal Comparative Analysis has been completed by Air Force Installation and Mission Support Center Financial Management Center of Expertise. This facility will not employ a standard design because there is no Air Force standard facility design and there is no applicable Air Force Civil Engineer Center standard design. Facilities will be designed as permanent construction in accordance with Unified Facilities Criteria 1-200-01. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into design, development, and construction of project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does NOT fall within the 100-year flood plain. The facility is sited in accordance with Installation Development Plan and is within a compatible land use area.</p>				

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<p>Space Launch Delta 45 Wing Base Civil Engineering Flight Chief: (321) 494-2129</p> <p>Telecommunications Facility 8,382 SM = 90,223 Square Feet; Base Engineer Maintenance Shop 1,084 SM = 11,688 Square Feet: Controlled Humidity Warehouse 1,540 SM = 16,576 Square Feet; Demolition: 4,727 SM = 50,881 Square Feet.</p> <p>JOINT USE CERTIFICATION: This is an installation utility/infrastructure project and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE #1 FLORIDA		4. PROJECT TITLE: CONSOLIDATED COMMUNICATIONS CENTER, CTC	
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 131-111	7. PROJECT NUMBER SXHT023004	8. PROJECT COST (\$000) AUTH: 0 APPR: 15,000
12. SUPPLEMENTAL DATA			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design		Design-Bid-Build	
(b) Date Design Started		19-JUL-21	
(c) Parametric Cost Estimates used to develop costs		YES	
(d) Percent Complete as of 01 JAN 2023		100%	
(e) Date 35% Designed		07-DEC-21	
(f) Date Design Complete		15-NOV-22	
(g) Energy Study/Life-Cycle analysis was performed		YES	
(2) Basis:			
(a) Standard or Definitive Design -		YES	
(b) Where Design Was Most Recently Used -			
(3) Total cost = (a) + (b) and (d) + (e) (\$000)			
(a) Production of Plans and Specifications		5,762	
(b) All Other Design Costs		2,968	
(c) Total		8,730	
(d) Contract		6,548	
(e) In-house		2,182	
(4) Construction Contract Award		24-MAR	
(5) Construction Start		24-APR	
(6) Construction Completion		26-AUG	
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	3400	2026	2,787
COMMUNICATION EQUIPMENT	3080	2026	5,957

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA	2. DATE MARCH 2023																
3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE #1 FLORIDA		4. PROJECT TITLE: CONSOLIDATED COMMUNICATIONS CENTER, CTC																
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 131-111	7. PROJECT NUMBER SXHT023004																
8. PROJECT COST (\$000) AUTH: 0 APPR: 15,000																		
<p>c. Title, Authorization, and Appropriation Summary:</p> <p>**FY24 Budget Request is to fund a Cost to Complete for this prior authorized and appropriated project**</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%;">Authorization (\$000)</th> <th style="width: 20%;">Auth of Approp (\$000)</th> <th style="width: 30%;">Approp (\$000)</th> </tr> </thead> <tbody> <tr> <td>FY2023 Enacted</td> <td>97,000</td> <td>97,000</td> <td>97,000</td> </tr> <tr> <td>FY2024 Budget Request</td> <td>0</td> <td>15,000</td> <td>15,000</td> </tr> <tr> <td>Total</td> <td>97,000</td> <td></td> <td>112,000</td> </tr> </tbody> </table> <p style="margin-top: 20px;">A 10 USC 2853 notification will be submitted to support the increase in authorization.</p>				Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)	FY2023 Enacted	97,000	97,000	97,000	FY2024 Budget Request	0	15,000	15,000	Total	97,000		112,000
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)															
FY2023 Enacted	97,000	97,000	97,000															
FY2024 Budget Request	0	15,000	15,000															
Total	97,000		112,000															

Project: Consolidated Communications Center, Patrick SFB, FL

Project Spending Plan

As of: 28-Feb-23

All Cost in thousands (\$000)

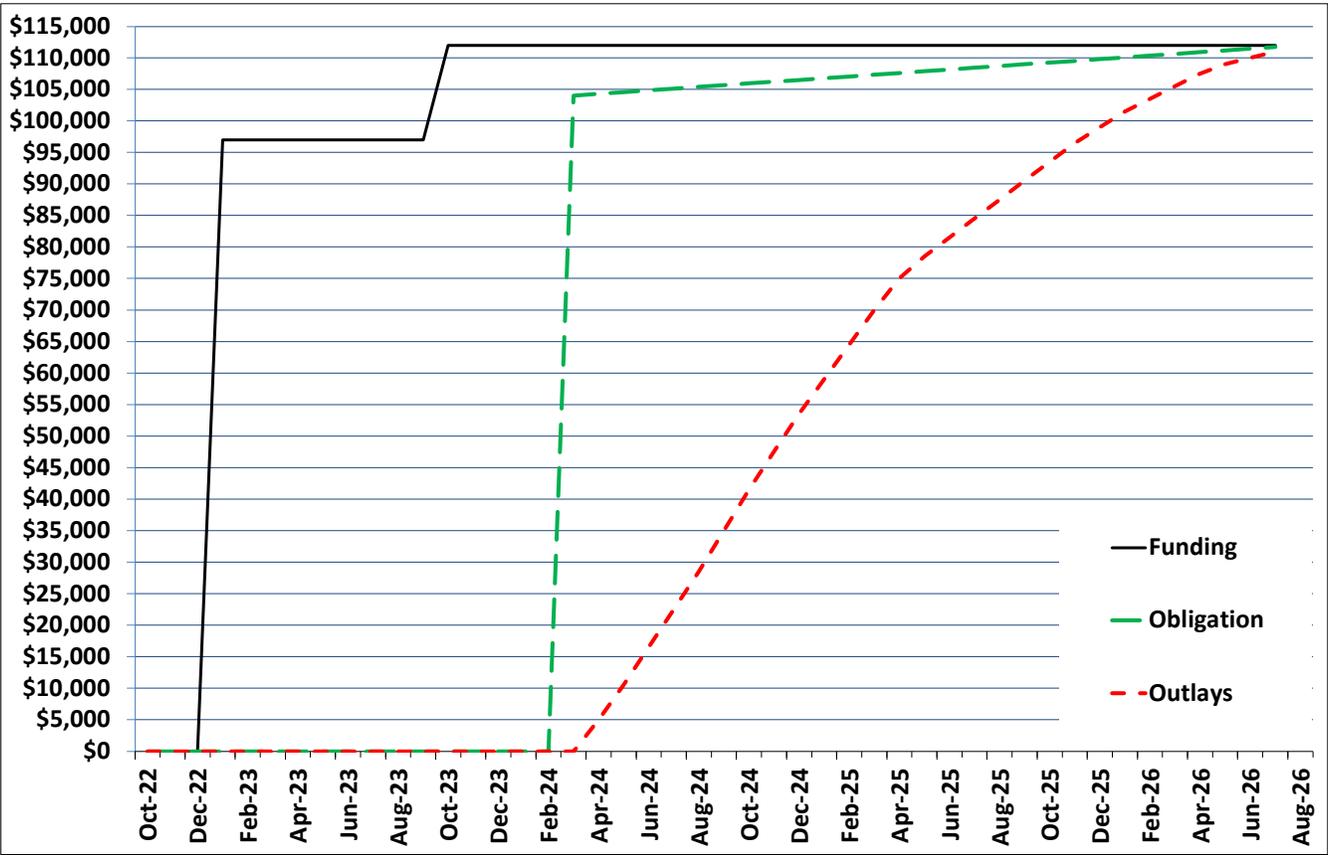
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Month	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-22	-	-	-	-	-	-
Nov-22	-	-	-	-	-	-
Dec-22	-	-	-	-	-	-
Jan-23	97,000	97,000	-	-	-	-
Feb-23	-	97,000	-	-	-	-
Mar-23	-	97,000	-	-	-	-
Apr-23	-	97,000	-	-	-	-
May-23	-	97,000	-	-	-	-
Jun-23	-	97,000	-	-	-	-
Jul-23	-	97,000	-	-	-	-
Aug-23	-	97,000	-	-	-	-
Sep-23	-	97,000	-	-	-	-
Oct-23	15,000	112,000	-	-	-	-
Nov-23	-	112,000	-	-	-	-
Dec-23	-	112,000	-	-	-	-
Jan-24	-	112,000	-	-	-	-
Feb-24	-	112,000	-	-	-	-
Mar-24	-	112,000	104,025	104,025	-	-
Apr-24	-	112,000	275	104,300	5,000	5,000
May-24	-	112,000	275	104,575	5,500	10,500
Jun-24	-	112,000	275	104,850	6,000	16,500
Jul-24	-	112,000	275	105,125	6,000	22,500
Aug-24	-	112,000	275	105,400	6,000	28,500
Sep-24	-	112,000	275	105,675	6,500	35,000
Oct-24	-	112,000	275	105,950	6,500	41,500
Nov-24	-	112,000	275	106,225	6,000	47,500
Dec-24	-	112,000	275	106,500	6,000	53,500
Jan-25	-	112,000	275	106,775	5,500	59,000
Feb-25	-	112,000	275	107,050	5,500	64,500
Mar-25	-	112,000	275	107,325	5,500	70,000
Apr-25	-	112,000	275	107,600	5,000	75,000
May-25	-	112,000	275	107,875	3,500	78,500
Jun-25	-	112,000	275	108,150	3,000	81,500
Jul-25	-	112,000	275	108,425	3,000	84,500
Aug-25	-	112,000	275	108,700	3,000	87,500
Sep-25	-	112,000	275	108,975	3,000	90,500
Oct-25	-	112,000	275	109,250	3,000	93,500
Nov-25	-	112,000	275	109,525	3,000	96,500
Dec-25	-	112,000	275	109,800	2,500	99,000
Jan-26	-	112,000	275	110,075	2,500	101,500
Feb-26	-	112,000	275	110,350	2,000	103,500
Mar-26	-	112,000	275	110,625	2,000	105,500
Apr-26	-	112,000	275	110,900	2,000	107,500
May-26	-	112,000	275	111,175	1,500	109,000
Jun-26	-	112,000	275	111,450	1,000	110,000
Jul-26	-	112,000	275	111,725	1,000	111,000
Aug-26	-	112,000	275	112,000	1,000	112,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2023.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in March 2024 and contract completion August 2026; duration 30 months.

Consolidated Communications Center, Patrick SFB, FL



1. COMPONENT U.S. SPACE FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE #1 FLORIDA		4. PROJECT TITLE: FINAL DENIAL BARRIERS, SOUTH GATE		
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 872-247	7. PROJECT NUMBER SXHT111085	8. PROJECT COST (\$000) 12,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				
FENCE SECURITY/VEHICLE BARRIERS (872-247)	LM	40	6,150	1,712 (246)
MECHANICAL SECURITY BARRICADES (872-300)	EA	9	118,778	(1,069)
ACCESS CONTROL FACILITY (730-839)	SM	6	12,000	(72)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(325)
SUPPORTING FACILITIES				
ROAD NETWORK	LS			8,795 (2,000)
PAVEMENT REMOVAL/SITE WORK	LS			(2,472)
UTILITIES	LS			(600)
PAVEMENTS	LS			(3,100)
ACTIVE/PASSIVE FORCE PROTECTION	LS			(360)
LIGHTING	LS			(263)
SUBTOTAL				
CONTINGENCY (5.0%)				
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD				
(6.5%) TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION:</p> <p>This project will provide all labor, tools and materials for the construction of the Patrick Space Force Base South Entry Control Facility in order to provide facilities that are in full compliance with Unified Facilities Criteria 4-022-02 and Air Force Instruction 31-101.</p> <p>The facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01 and High Performance and Sustainable Building Requirements per Unified Facilities Criteria 1-200-02.</p> <p>Air Conditioning: .5 Tons</p>				

1. COMPONENT U.S. SPACE FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE #1 FLORIDA		4. PROJECT TITLE: FINAL DENIAL BARRIERS, SOUTH GATE	
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 872-247	7. PROJECT NUMBER SXHT111085	8. PROJECT COST (\$000) 12,000
11. REQUIREMENT: 40 LM ADEQUATE: 0 LM SUBSTANDARD: 0 LM			
PROJECT: Final Denial Barriers, South Gate			
<p>REQUIREMENT: Patrick Space Force Base requires an Anti-Terrorism/Force Protection compliant Entry Control Facility. This project will enhance the infrastructure at the South Entry Control Facility at Patrick Space Force Base to meet required Anti-Terrorism/Force Protection standards and Unified Facilities Criteria 4-022-01. Work includes installation of an active/passive physical barrier system equipped with final denial configurations which are compliant with Unified Facilities Criteria 4-022-02. The project will construct final denial barriers along Patrick Drive and at the entrance to Recreation Road. The Patrick Drive Road network will be reconfigured to alleviate vehicle traffic and reduce speed to achieve a 9-second reaction time for an attendant to identify an adversary and deploy the final denial barriers. Road reconfigurations will provide additional queuing space and speed reduction in the "Approach Zone" leading up to the access control point and will reduce vehicle queuing on Patrick Drive. Include curbs or cable barriers to serve as containment for vehicles on Patrick Drive before the final denial barriers are reached. The project will construct a designated area to conduct vehicle inspections, as well as a turn-around lane that can accommodate trucks and other large commercial vehicles. The project will include installation of new perimeter walls and security fencing around the new entry control facility to fill any voids left by the reconfiguration of the road network. The project will construct an Access Control Facility position to withstand small arms fire and hurricane force winds. Also included in the project is installation of new street lighting, utilities, and any other infrastructure items necessary for a complete and usable entry control facility in accordance with Unified Facilities Criteria 4-022-01.</p>			
<p>This project does not fall within or partly within the 100-year flood plain. The facility is sited in accordance with the installation Development Plan and is within a compatible land use area.</p>			
<p>This is not a tenant or supported service requirement.</p>			
<p>CURRENT SITUATION: The Patrick Drive Entry Control Facility does not meet minimum Unified Facilities Criteria requirements. There are no mechanical barricades at the Entry Control Facility providing final denial capability, which puts Security Forces personnel at unnecessary risk in pursuing potential adversaries. There is no Entry Control Facility position to further prevent</p>			

1. COMPONENT U.S. SPACE FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE #1 FLORIDA		4. PROJECT TITLE: FINAL DENIAL BARRIERS, SOUTH GATE	
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 872-247	7. PROJECT NUMBER SXHT111085	8. PROJECT COST (\$000) 12,000
<p>vehicle threats from entering the base or a vehicle inspection area. The existing Entry Control Facility is geospatially constrained by State Route 404 and the nearby Patrick Space Force Base Golf Course, retail center, medical facilities, and marina. A large retiree population also utilizes the South Entry Control Facility as primary access to above-mentioned base functions. Temporary speed reduction measures such as bollards, posts, and speed humps currently provide obstacles in the road which increases risk of injury and vehicle damage claims. The lack of "Approach Zone" queuing space creates backups that often block intersections when personnel enter and exit the Entry Control Facility during peak commute times. These backups typically extend beyond the State Route 404 off-ramp and into the Satellite Beach neighborhood. This prevents vehicles on the off-ramp with a green signal from making a left turn onto Patrick Drive and can cause stationary traffic to back up into the right-hand lane of westbound State Route 404. This poses a severe risk to personnel safety due to the potential for a high-speed collision. Additional "Approach Zone" deficiencies stem from the long stretch of straight road on Patrick Drive which leads directly to the gate. Current characteristics allow potential adversary vehicles to gain a considerable amount of speed prior to the Access Control Point. Security Forces personnel operating the gate have minimal time to anticipate a potential threat and react in a gate runner situation.</p> <p>IMPACT IF NOT PROVIDED: Failure to implement this project would restrict installation security measures and compound the risk of installation breach. No final denial barrier system exists, and existing traffic control devices are inadequate. The installation will continue operations in violation of physical security requirements identified in Air Force Instruction 31-101 and Unified Facilities Criteria 4-022-01 and substantial safety concerns will persist due to lack of available queuing space outside of the gate and will put assigned personnel and others at risk for death or injury. These issues will continue to be exacerbated by ongoing development in the area.</p> <p>ADDITIONAL: Completion of this project corrects a critical and documented vulnerability. This project meets the scope and criteria specified in the Department of the Air Force Manual 32-2084, Standard Facility Requirements. A completed Economic Analysis has identified this project as the most effective and efficient means of constructing a Unified Facilities Criteria 4-022-01 compliant commercial vehicle inspection facility and provides the highest</p>			

1. COMPONENT U.S. SPACE FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION PATRICK SPACE FORCE BASE PATRICK SITE #1 FLORIDA		4. PROJECT TITLE: FINAL DENIAL BARRIERS, SOUTH GATE	
5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 872-247	7. PROJECT NUMBER SXHT111085	8. PROJECT COST (\$000) 12,000
<p>possible benefit score for Mission Effectiveness, Safety & Security, and Morale.</p> <p>This project will follow Sustainable principles, to include life-cycle cost-effectiveness practices which will be integrated into the design, development and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable.</p> <p>This project does not fall within the 100-year flood plain. The facility is sited in accordance with Installation Development Plan and is within a compatible land use area.</p> <p>Fence Security/Vehicle Barriers: 40 LM = 131 Linear Feet; Access Control Facility: 6 SM = 65 Square Feet</p> <p>JOINT USE CERTIFICATION: This is an installation utility/infrastructure project and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.</p>			

1. COMPONENT U.S. SPACE FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023																												
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5. PROGRAM ELEMENT 91211S	6. CATEGORY CODE 872-247	7. PROJECT NUMBER SXHT111085	8. PROJECT COST (\$000) 12,000																												
<p>12. SUPPLEMENTAL DATA</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table> <tr> <td>(a) Type of Design</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td>04-DEC-18</td> </tr> <tr> <td>(c) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023</td> <td>100%</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>29-APR-20</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>26-APR-21</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was performed</td> <td>NO</td> </tr> </table> <p>(2) Basis:</p> <table> <tr> <td>(a) Standard or Definitive Design -</td> <td>YES</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td>Buckley AFB</td> </tr> </table> <p>(3) Total cost = (a) + (b) and (d) + (e) (\$000)</p> <table> <tr> <td>(a) Production of Plans and Specifications</td> <td>720</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>360</td> </tr> <tr> <td>(c) Total</td> <td>1,080</td> </tr> <tr> <td>(d) Contract</td> <td>810</td> </tr> <tr> <td>(e) In-house</td> <td>270</td> </tr> </table> <p>(4) Construction Contract Award 24-FEB</p> <p>(5) Construction Start 24-JUL</p> <p>(6) Construction Completion 26-JUN</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	04-DEC-18	(c) Parametric Cost Estimates used to develop costs	YES	(d) Percent Complete as of 01 JAN 2023	100%	(e) Date 35% Designed	29-APR-20	(f) Date Design Complete	26-APR-21	(g) Energy Study/Life-Cycle analysis was performed	NO	(a) Standard or Definitive Design -	YES	(b) Where Design Was Most Recently Used -	Buckley AFB	(a) Production of Plans and Specifications	720	(b) All Other Design Costs	360	(c) Total	1,080	(d) Contract	810	(e) In-house	270
(a) Type of Design	Design-Bid-Build																														
(b) Date Design Started	04-DEC-18																														
(c) Parametric Cost Estimates used to develop costs	YES																														
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1. COMPONENT AIR FORCE			FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20230301			
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA						4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONSTRUCTION COST INDEX 0.91			
6. PERSONNEL			(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22			1,669	6,285	15,931	0	13	0	2	2	78	23,980
b. END FY			1,719	6,474	17,992	0	13	0	2	2	78	26,280
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE										6,936		
b. INVENTORY TOTAL AS OF 30-SEP-22										33,918,449.00		
c. AUTHORIZATION NOT YET IN INVENTORY										9,800.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										115,000.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00		
g. REMAINING DEFICIENCY										505,200.00		
h. GRAND TOTAL										34,548,449.00		
8. PROJECTS REQUESTED IN THIS PROGRAM												
a. CATEGORY						b. COST (\$000)		c. DESIGN STATUS				
(1) CODE	(2) PROJECT TITLE				(3) SCOPE				(1) START	(2) COMPLETE		
141-489	Battle Management Combined Operations Complex				7,897 SM		115,000		03/22	06/23		
9. FUTURE PROJECTS												
N/A												
10. MISSION OR MAJOR FUNCTIONS												
Robins Air Force Base is the home to 54 mission partners, covering five major commands and three wings. It is the largest single site industrial complex in Georgia. Major units include Headquarters Air Force Reserve Command, the Warner Robins Air Logistics Complex, 116th Air Control Wing, 461st Air Control Wing, 78th Air Base Wing, 5th Combat Communications Group and the 638th Supply Chain Management Group. The Warner Robins Air Logistics Complex is responsible for logistics management, support, and depot-level maintenance of systems including F-15, C-130, C-5, C-141, and U-2 aircraft, helicopters, missiles and remotely piloted vehicles; an air base wing; an air control wing; HQ Air Force Reserve Command; an Air Mobility Command air refueling group with KC-135 aircraft; an ACC combat communications group; a special operations flight with EC-137D aircraft; an Air National Guard bomb wing with B-1B aircraft; and an Air Force recruiting group.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES												
N/A												

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE ROBINS AIR FORCE BASE, SITE #1 GEORGIA		4. PROJECT TITLE: BATTLE MANAGEMENT COMBINED OPERATIONS COMPLEX		
5. PROGRAM ELEMENT 27412F	6. CATEGORY CODE 141-454	7. PROJECT NUMBER UHHZ210600	8. PROJECT COST (\$000) 115,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				
SPECIAL OPERATIONS	SM	7,897	9,878	85,058 (78,007)
ICD 705 PREMIUM	LS			(4,977)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(2,074)
SUPPORTING FACILITIES				
SITE IMPROVEMENTS	LS			17,573 (764)
UTILITIES	LS			(5,870)
PAVEMENTS	LS			(799)
COMMUNICATIONS	LS			(172)
GENERATOR	KW	5,400	1,846	(9,968)
SUBTOTAL				102,631
CONTINGENCY (5.0%)				5,132
TOTAL CONTRACT COST				107,763
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				7,005
TOTAL REQUEST				114,768
TOTAL REQUEST (ROUNDED)				115,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(4,500)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a Battle Management Control Squadron KINGPIN operations center, a Group Headquarters suite for Spectrum Warfare Group to include space for three squadrons, and squadron operations facility for the E-11A Battlefield Airborne Communications Node weapons system using conventional design and construction methods. Construction will include reinforced concrete slabs and foundation systems, steel framed structures, masonry block exterior walls, and sloped standing seam metal roofing. The facility space will include, but is not limited to, Tactical Operations Center, Rapid Deployable Payload Control Element staging and storage, Maintenance Operations Center, hardware and software testing activities, and training and academic space with storage. The majority of interior space will be controlled area and must be constructed to comply with Intelligence Community Directive 705 criteria. The project will include all necessary utilities, site improvements, pavements, communications support, interior and exterior infrastructure, and all necessary supporting work for a complete and usable facility, to include controlled space and mission critical power system redundancies. A standby generator is authorized in accordance with Air Force Manual 32-1062 for these mission sets. Facilities				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE ROBINS AIR FORCE BASE, SITE #1 GEORGIA		4. PROJECT TITLE: BATTLE MANAGEMENT COMBINED OPERATIONS COMPLEX		
5. PROGRAM ELEMENT 27412F	6. CATEGORY CODE 141-454	7. PROJECT NUMBER UHHZ210600	8. PROJECT COST (\$000) 115,000	
<p>will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 1,020 Tons</p>				
<p>11. REQUIREMENT: 7,897 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct a Battle Management Combined Operations Complex</p> <p>REQUIREMENT: This project constructs an operation complex for the Battle Management Control Squadron KINGPIN, 950th Spectrum Warfare Group (aligned under 350th Spectrum Warfare Wing at Eglin AFB), and E-11A Battlefield Airborne Communications Node mission sets as well as the support space that houses critical mission equipment for those weapons systems. This facility requirement directly enables proper execution of Robins AFB's mission transformation to support the National Defense Strategy due to the ongoing Joint Surveillance Target Attack Radar System E-8C weapons system divestiture. In addition to operations activities, aircraft and mission equipment maintenance activities will be supported from this facility. This facility will include, but is not limited to, Command sections, administrative space, mission planning, mission brief and debrief, orbit rooms, operations controllers workstations, weapons and tactics, communications, security, computer server farms, team conference rooms, and an auditorium suitable for large classified briefings. This project supports Air Combat Command tenant units, and is a United States Central Command supported service requirement.</p> <p>CURRENT SITUATION: With the E-8C Joint Surveillance Target Attack Radar System mission slated to divest no earlier than 2027, and with existing facilities in the 116th Air Control Wing cantonment area, there is no facility space that can be converted to support the incoming mission sets, or the associated personnel or equipment. This is a new facility requirement to support all three incoming active duty-led new mission sets programmed for bed-down at Robins AFB. There are no facilities owned by 78th Air Base Wing that meet this requirement, nor are there existing facilities that can be modified to meet the requirement. E-8C operations are currently ongoing in and around the 116th Air Control Wing ramp, and all Joint Surveillance Target Attack Radar System-related facilities cannot support the bed-downs for KINGPIN, Spectrum Warfare Group, or E-11A</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE ROBINS AIR FORCE BASE, SITE #1 GEORGIA		4. PROJECT TITLE: BATTLE MANAGEMENT COMBINED OPERATIONS COMPLEX		
5. PROGRAM ELEMENT 27412F	6. CATEGORY CODE 141-454	7. PROJECT NUMBER UHHZ210600	8. PROJECT COST (\$000) 115,000	
<p>Battlefield Airborne Communications Node, even subsequent to E-8C divestment.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Robins AFB will not have the capability to enable the 950th Spectrum Warfare Group, and by extension its parent 350th Spectrum Warfare Wing at Eglin AFB, to perform electronic warfare assessment and reprogramming in support of Multi-Domain Combat Shield, Air Force Special Operations Command and Air Mobility Command-sponsored Commando Shield, and USAF fleet-wide 5th-generation aircraft. Additionally, both the Battle Management Control Squadron Kingpin and E-11A Battlefield Airborne Communications Node missions will be unable to conduct distributed Command and Control functions across multiple Areas of Responsibility in support of Multi-Domain operations. Lastly, the Battlefield Airborne Communications Node group specifically will be unable to support Command and Control air-to-air and air-to-ground data and communications bridging, range extension, and waveform translation to the Combatant Commander in the area of responsibility to enhance tactical data-link operations across disparate networks for joint and coalition warfighters.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, and as detailed at the Whole Building Design Guide website. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Army Corps of Engineers. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the</p>				

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5. PROGRAM ELEMENT 27412F	6. CATEGORY CODE 141-454	7. PROJECT NUMBER UHHZ210600	8. PROJECT COST (\$000) 115,000
<p>Installation Development Plan and is within a compatible land use area.</p> <p>78 Wing Base Civil Engineer: (478) 926-3093</p> <p>SPECIAL OPERATIONS: 7,897 SM = 85,003 Square Feet</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023																																												
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<p>12. SUPPLEMENTAL DATA</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Type of Design</td> <td style="text-align: right;">Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td style="text-align: right;">15-MAR-22</td> </tr> <tr> <td>(c) Parametric Cost Estimates used to develop costs</td> <td style="text-align: right;">YES 65%</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023</td> <td style="text-align: right;">01-JUL-22</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td style="text-align: right;">01-JUN-23</td> </tr> <tr> <td>(f) Date Design Complete</td> <td style="text-align: right;">YES</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was performed</td> <td></td> </tr> </table> <p>(2) Basis: NO</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Standard or Definitive Design -</td> <td style="text-align: right;">N/A</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total cost = (a) + (b) and (d) + (e) (\$000)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Production of Plans and Specifications</td> <td style="text-align: right;">4,200</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td style="text-align: right;">3,300</td> </tr> <tr> <td>(c) Total</td> <td style="text-align: right;">7,500</td> </tr> <tr> <td>(d) Contract</td> <td style="text-align: right;">7,000</td> </tr> <tr> <td>(e) In-house</td> <td style="text-align: right;">500</td> </tr> </table> <p>(4) Construction Contract Award 24-APR</p> <p>(5) Construction Start 24-JUN</p> <p>(6) Construction Completion 26-SEP</p> <p>b. Equipment associated with this project provided from other appropriations:</p> <table border="0" style="width: 100%; margin-top: 20px;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 20%;"></th> <th style="width: 20%; text-align: center;">FISCAL YEAR</th> <th style="width: 20%;"></th> </tr> <tr> <th style="text-align: left;">EQUIPMENT NOMENCLATURE</th> <th style="text-align: center;">PROCURING APPROP</th> <th style="text-align: center;">APPROPRIATED OR REQUESTED</th> <th style="text-align: center;">COST (\$000)</th> </tr> </thead> <tbody> <tr> <td>FURNITURE FIXTURES & EQUIPMENT</td> <td style="text-align: center;">3080</td> <td style="text-align: center;">2026</td> <td style="text-align: center;">2,500</td> </tr> <tr> <td>MISSION EQUIPMENT & COMMUNICATIONS</td> <td style="text-align: center;">3080</td> <td style="text-align: center;">2026</td> <td style="text-align: center;">2,000</td> </tr> </tbody> </table>				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	15-MAR-22	(c) Parametric Cost Estimates used to develop costs	YES 65%	(d) Percent Complete as of 01 JAN 2023	01-JUL-22	(e) Date 35% Designed	01-JUN-23	(f) Date Design Complete	YES	(g) Energy Study/Life-Cycle analysis was performed		(a) Standard or Definitive Design -	N/A	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	4,200	(b) All Other Design Costs	3,300	(c) Total	7,500	(d) Contract	7,000	(e) In-house	500			FISCAL YEAR		EQUIPMENT NOMENCLATURE	PROCURING APPROP	APPROPRIATED OR REQUESTED	COST (\$000)	FURNITURE FIXTURES & EQUIPMENT	3080	2026	2,500	MISSION EQUIPMENT & COMMUNICATIONS	3080	2026	2,000
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Project: Battle Management Combined Operations Complex, Robins AFB, GA

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands (\$000)

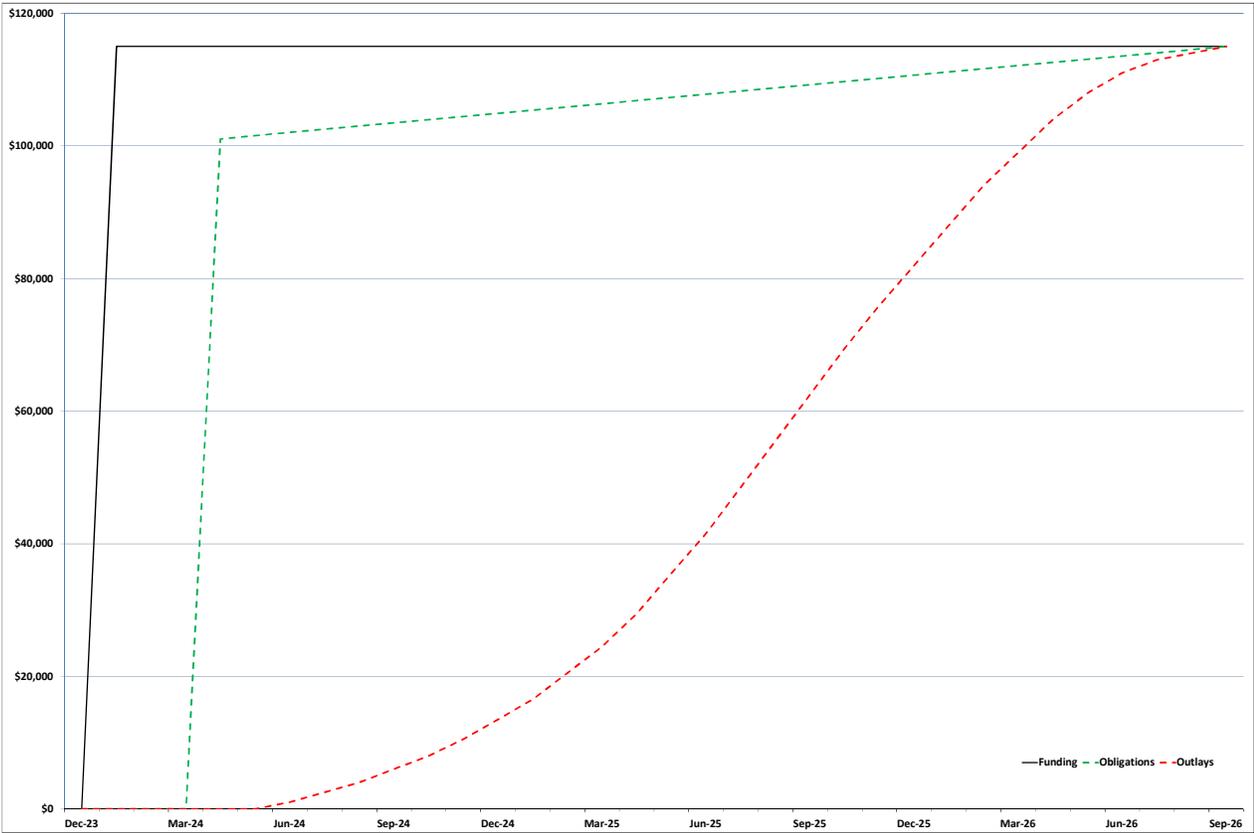
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Dec-23	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Dec-23	-	-	-	-	-	-
Jan-24	115,000	115,000	-	-	-	-
Feb-24	-	115,000	-	-	-	-
Mar-24	-	115,000	-	-	-	-
Apr-24	-	115,000	101,051	101,051	-	-
May-24	-	115,000	481	101,532	-	-
Jun-24	-	115,000	481	102,013	1,000	1,000
Jul-24	-	115,000	481	102,494	1,500	2,500
Aug-24	-	115,000	481	102,975	1,500	4,000
Sep-24	-	115,000	481	103,456	2,000	6,000
Oct-24	-	115,000	481	103,937	2,000	8,000
Nov-24	-	115,000	481	104,418	2,500	10,500
Dec-24	-	115,000	481	104,899	3,000	13,500
Jan-25	-	115,000	481	105,380	3,000	16,500
Feb-25	-	115,000	481	105,861	4,000	20,500
Mar-25	-	115,000	481	106,342	4,000	24,500
Apr-25	-	115,000	481	106,823	5,000	29,500
May-25	-	115,000	481	107,304	6,000	35,500
Jun-25	-	115,000	481	107,785	6,000	41,500
Jul-25	-	115,000	481	108,266	7,000	48,500
Aug-25	-	115,000	481	108,747	7,000	55,500
Sep-25	-	115,000	481	109,228	7,000	62,500
Oct-25	-	115,000	481	109,709	7,000	69,500
Nov-25	-	115,000	481	110,190	6,500	76,000
Dec-25	-	115,000	481	110,671	6,000	82,000
Jan-26	-	115,000	481	111,152	6,000	88,000
Feb-26	-	115,000	481	111,633	6,000	94,000
Mar-26	-	115,000	481	112,114	5,000	99,000
Apr-26	-	115,000	481	112,595	5,000	104,000
May-26	-	115,000	481	113,076	4,000	108,000
Jun-26	-	115,000	481	113,557	3,000	111,000
Jul-26	-	115,000	481	114,038	2,000	113,000
Aug-26	-	115,000	481	114,519	1,000	114,000
Sep-26	-	115,000	481	115,000	1,000	115,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2024.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in April 2024 and contract completion September 2026; duration 30 months.

Battle Management Combined Operations Complex, Robins AFB, GA



1. COMPONENT AIR FORCE			FY 2024 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20230301		
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA						4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 0.89		
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		1,097	6,745	1,324	49	6	1	3	6	9	9,240
b. END FY		1,097	6,745	1,324	49	6	1	3	6	9	9,240
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										60,639	
b. INVENTORY TOTAL AS OF 30-SEP-22										3,289,406.00	
c. AUTHORIZATION NOT YET IN INVENTORY										320,250.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										136,800.00	
h. GRAND TOTAL										3,746,456.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE			(3) SCOPE				(1) START	(2) COMPLETE		
215-582	WEAPONS GENERATION FACILITY, INC 3			8,884 SM		112,000		03/17	06/22		
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJOR FUNCTIONS Barksdale Air Force Base is home to the 2d Bomb Wing. The 2nd Bomb Wing conducts the primary mission with three squadrons of B-52H Stratofortress bombers - the 11th Bomb Squadron, which is the training squadron, the 20th Bomb Squadron and the 96th Bomb Squadron. Together they ensure the 2nd Bomb Wing provides flexible, responsive, global combat capability, autonomously or in concert with other forces, and trains all Air Force Global Strike Command and Air Force Reserve B-52 crews. The 2nd Bomb Wing provides our nation with strategic deterrence capabilities and devastating global combat air power, anytime, anywhere.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA			4. PROJECT TITLE: WEAPONS GENERATION FACILITY, INC 3		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 112,000	
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					187,147
SHOP, SURVEILLANCE AND INSPECTION (215-582)		SM	8,884	15,830	(140,634)
RESERVE FIRE TEAM FACILITY (730-836)		SM	512	11,588	(5,933)
SECURITY POLICE ENTRY CONTR BUILDING (730-837)		SM	776	18,315	(14,212)
EMER ELECTRIC POWER GENERATION PLANT (811-147)		KW	2,000	1,405	(2,810)
WATER FIRE PUMPING STATION (843-316)		SM	283	25,423	(7,195)
MISCELLANEOUS PERSONNEL SHELTER (738-499)		SM	14	2,877	(40)
SECURITY DEFENSIVE FIGHTING POSITION (730-834)		SM	75	38,267	(2,870)
GANTRY/BRIDGE CRANE (890-154)		EA	3	72,800	(218)
FENCE INTERIOR (872-248)		LM	1,524	438	(668)
RENOVATE SHOP, MISSILE ASSEMBLY (212-212)		SM	6,474	1,236	(8,002)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(4,565)
SUPPORTING FACILITIES					58,376
SITE PREPARATION		LS			(17,300)
SITE IMPROVEMENTS		LS			(1,483)
UTILITIES		LS			(13,500)
PAVEMENTS		LS			(6,464)
COMMUNICATIONS		LS			(2,970)
PASSIVE FORCE PROTECTION		LS			(8,561)
ENVIRONMENTAL MEASURES		LS			(3,184)
REMEDICATION UNEXPLODED ORDNANCE		LS			(4,000)
REMEDICATION DEMOLITION		SM	1,711	534	(914)
SUBTOTAL					245,523
CONTINGENCY (5%)					12,276
TOTAL CONTRACT COST					257,799
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					14,695
TOTAL REQUEST					272,494
TOTAL REQUEST (ROUNDED)					272,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(35,696)

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA			4. PROJECT TITLE: WEAPONS GENERATION FACILITY, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 112,000	
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a Weapon Generation Facility that is a hardened facility, within a protective zone, with consolidated storage, maintenance, inspection, and administrative functions using best practices from similar Department of the Navy and Department of Energy facilities currently in use. All construction will meet requirements for essential facility system nuclear design certification. An overhead bridge crane is required for maintenance purposes in each of the three (3) Maintenance Bays. Generation staging area will be required for unloading transit vehicles. Project will include an independent fire suppression system, all utilities, pavements, communications, site improvements, security forces fire team facility, Remote Target Engagement System tower structure, Entry Control Point/Shelter, personnel shelter to protect from weather elements, and associated support facilities to provide a complete and useable facility. Project includes renovation of the Integrated Maintenance Facility, Building 7710 (6,474 Square Meters), because this facility already contains unique maintenance functions that this project will not duplicate, but is a requirement of the overall weapons generation functions. Project will include an emergency back-up generator, as authorized per Air Force Instruction 32-1062, and is included as part of the emergency electric power generation plant facility. Project will demolish Building 7318 (1,711 Square Meters). Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01. Air Conditioning: 100 Tons				
11. REQUIREMENT: 8,884 SM ADEQUATE: 6,474 SM SUBSTANDARD: 1,711 SM PROJECT: Construct Weapons Generation Facility REQUIREMENT: Project is required to construct a Weapons Generation Facility to reconstitute nuclear capability at Barksdale Air Force Base, Louisiana. A reinforced concrete facility that places all nuclear maintenance and storage operations in a single facility is required to eliminate security deviations. Weapons Generation Facilities are single hardened facilities within a protective zone, with consolidated storage, maintenance, inspection, and administrative functions. Emergency generator is required for the critical operations in the facility and is included as part of the emergency electric power generation plant facility. Nuclear certified hoists and cranes are also required to perform asset handling and maintenance functions. Remediation of Unexploded Ordnance and wetlands are required as a critical task prior to				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA			4. PROJECT TITLE: WEAPONS GENERATION FACILITY, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 112,000	

initial site construction.

CURRENT SITUATION: The Barksdale Air Force Base Weapons Generation Facility initiative is an important element of a broader Weapons Generation Facility Investment Strategy that will recapitalize five Air Force Global Strike Command Weapons Storage Areas. Existing Weapons Storage Areas (and the Barksdale Munitions Storage Area) contain numerous function-specific deficiencies, inflexible design based on the prevailing nuclear weapons storage standards of the 1950s and 1960s. The current facilities do not meet the security requirements mandated in Department of Defense security directives. The aging infrastructure requires workarounds to meet mission requirements and the current facilities systems are inadequate to support ongoing weapons maintenance. The existing facilities have outlived their design life.

IMPACT IF NOT PROVIDED: The stand-up of a nuclear capable mission at Barksdale is a strategic based decision. If this project is not funded, the storage and maintenance of weapons will not be feasible at Barksdale Air Force Base. Lack of adequate weapons storage and maintenance facilities at Barksdale Air Force Base will prevent diversification of the Air Force's nuclear mission, placing continued strain on the nuclear bomber force. All areas of the facility are required for it to operate as a nuclear certified facility. It is not possible to separate the facility into complete and useable phases.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from NAVFAC. A waiver to an Economic Analysis has been approved for this project. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1- 200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Supporting Facilities total exceeds 25% of the Primary Facilities total due to extensive amount of earthwork associated with preparing the site.

Base Civil Engineer: (318) 456-4586

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 112,000	
<p>Shop, Surveillance and Inspection: 8,884 SM = 95,627 Square Feet; Reserve Fire Team Facility: 512 SM = 5,511 Square Feet; Security Police Entry Control Building: 776 SM = 8,353 Square Feet; Water Fire Pumping Station: 283 SM = 3,046 Square Feet; Miscellaneous Personnel Shelter: 14 SM = 151 Square Feet; Security Defensive Fighting Position: 75 SM = 807 Square Feet; Fence Interior: 1,524 LM = 5,000 Linear Feet; Renovate Shop, Missile Assembly: 6,474 SM = 69,686 Square Feet; Demolition: 1,711 SM = 18,417 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

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12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design				Design-Bid-Build	
(b) Date Design Started				20-MAR-17	
(c) Parametric Cost Estimates used to develop costs				YES	
(d) Percent Complete as of 01 JAN 2022				100%	
(e) Date 35% Designed				30-OCT-18	
(f) Date Design Complete				03-JUN-22	
(g) Energy Study/Life-Cycle analysis was/will be performed				YES	
(2) Basis:					
(a) Standard or Definitive Design				NO	
(b) Where Design Was Most Recently Used				N/A	
(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)					
(a) Production of Plans and Specifications				16,320	
(b) All Other Design Costs				8,160	
(c) Total				24,480	
(d) Contract				20,400	
(e) In-house				4,080	
(4) Construction Contract Award				22-FEB	
(5) Construction Start				22-MAR	
(6) Construction Completion				26-FEB	
b. Equipment associated with this project provided from other appropriations:					
				FISCAL YEAR	
				APPROPRIATED	
EQUIPMENT NOMENCLATURE		PROCURING APPROPR		OR REQUESTED	
				COST	
				(\$000)	
FURNITURE, FIXTURES, & EQUIPMENT		3080		2026	
UNINTERRUPTED POWER SUPPLY		3080		2026	
HOISTING EQUIPMENT		3080		2026	
SECURITY EQUIPMENT		3080		2025	
AIR COMPRESSORS		3080		2026	

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION BARKSDALE AFB BARKSDALE AIR FORCE BASE SITE 1 LOUISIANA		4. PROJECT TITLE: WEAPONS GENERATION FACILITY, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER AWUB145001	8. PROJECT COST (\$000) AUTH: 0 APPR: 112,000
c. Title, Authorization, and Appropriation Summary:			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY 2022 Enacted	272,000	40,000	40,000
FY 2023 Enacted	-----	125,000	125,000
FY 2024 Budget Request	-----	112,000	<u>112,000</u>
Total	272,000		277,000

Project: Weapons Generation Facility, Inc 3, Barksdale AFB, LA

All Cost in thousands

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands

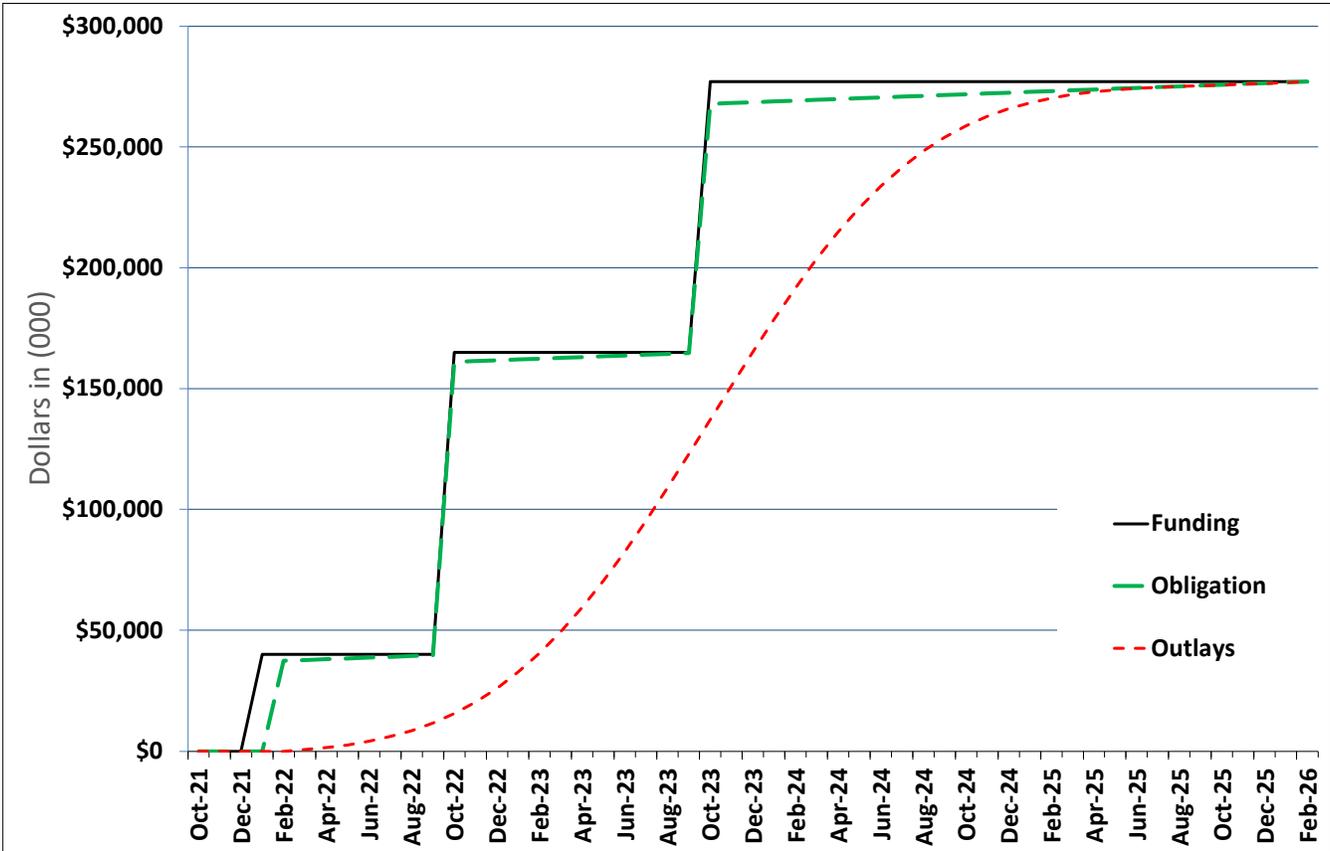
Chart Begin Oct-21	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Month	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-21	-	-	-	-	-	-
Nov-21	-	-	-	-	-	-
Dec-21	-	-	-	-	-	-
Jan-22	40,000	40,000	-	-	-	-
Feb-22	-	40,000	37,368	37,368	-	-
Mar-22	-	40,000	329	37,697	610	610
Apr-22	-	40,000	329	38,026	836	1,446
May-22	-	40,000	329	38,355	1,126	2,571
Jun-22	-	40,000	329	38,684	1,492	4,063
Jul-22	-	40,000	329	39,013	1,945	6,008
Aug-22	-	40,000	329	39,342	2,493	8,501
Sep-22	-	40,000	329	39,671	3,144	11,645
Oct-22	125,000	165,000	121,381	161,052	3,899	15,544
Nov-22	-	165,000	329	161,381	4,757	20,301
Dec-22	-	165,000	329	161,710	5,707	26,008
Jan-23	-	165,000	329	162,039	6,735	32,743
Feb-23	-	165,000	329	162,368	7,818	40,562
Mar-23	-	165,000	329	162,697	8,926	49,487
Apr-23	-	165,000	329	163,026	10,023	59,511
May-23	-	165,000	329	163,355	11,071	70,581
Jun-23	-	165,000	329	163,684	12,026	82,608
Jul-23	-	165,000	329	164,013	12,850	95,458
Aug-23	-	165,000	329	164,342	13,505	108,963
Sep-23	-	165,000	329	164,671	13,960	122,922
Oct-23	112,000	277,000	103,117	267,788	14,193	137,115
Nov-23	-	277,000	329	268,117	14,193	151,308
Dec-23	-	277,000	329	268,446	13,960	165,268
Jan-24	-	277,000	329	268,775	13,505	178,773
Feb-24	-	277,000	329	269,104	12,850	191,623
Mar-24	-	277,000	329	269,433	12,026	203,649
Apr-24	-	277,000	329	269,762	11,071	214,720
May-24	-	277,000	329	270,091	10,023	224,743
Jun-24	-	277,000	329	270,420	8,926	233,669
Jul-24	-	277,000	329	270,749	7,818	241,487
Aug-24	-	277,000	329	271,078	6,735	248,222
Sep-24	-	277,000	329	271,407	5,707	253,929
Oct-24	-	277,000	329	271,736	4,757	258,686
Nov-24	-	277,000	329	272,065	3,899	262,585
Dec-24	-	277,000	329	272,394	3,144	265,729
Jan-25	-	277,000	329	272,723	2,493	268,222
Feb-25	-	277,000	329	273,052	1,945	270,167
Mar-25	-	277,000	329	273,381	1,492	271,659
Apr-25	-	277,000	329	273,710	1,126	272,785
May-25	-	277,000	329	274,039	836	273,620
Jun-25	-	277,000	329	274,368	610	274,230
Jul-25	-	277,000	329	274,697	438	274,668
Aug-25	-	277,000	329	275,026	312	274,981
Sep-25	-	277,000	329	275,355	314	275,294
Oct-25	-	277,000	329	275,684	246	275,540
Nov-25	-	277,000	329	276,013	338	275,878
Dec-25	-	277,000	329	276,342	310	276,188
Jan-26	-	277,000	329	276,671	350	276,538
Feb-26	-	277,000	329	277,000	462	277,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2022.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in FEB 2022 and contract completion Feb 2026; duration 49 months.

Weapons Generation Facility, Inc 3, Barksdale AFB, LA



1. COMPONENT AIR FORCE			FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20230301		
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE, MASSACHUSETTS						4. COMMAND AIR FORCE MATERIAL COMMAND			5. AREA CONSTRUCTION COST INDEX 1.26		
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-SEP-22	455	264	1,698	0	0	0	48	92	480	3,037
b. END FY		462	270	1,680	0	0	0	48	92	485	3,040
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										2,331	
b. INVENTORY TOTAL AS OF 30-SEP-22										1,618,197.00	
c. AUTHORIZATION NOT YET IN INVENTORY										291,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										37,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										251,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										24,000.00	
g. REMAINING DEFICIENCY										89,000.00	
h. GRAND TOTAL										2,310,197.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE			(3) SCOPE				(1) START	(2) COMPLETE		
740-884	CHILD DEVELOPMENT CENTER			3,411 SM		37,000		03/22	01/24		
317-315	MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC 4			15,068 SM		70,000		10/17	03/19		
9. FUTURE PROJECTS											
317-315 MIT-LL/Engineering and Prototype Fac (26,712 SM / \$251,000)											
730-142 Fire Station (2,450 SM / \$24,000)											
10. MISSION OR MAJOR FUNCTIONS											
The Air Force Life Cycle Management Center (AFLCMC) at Hanscom AFB is one of six centers reporting to the Air Force Materiel Command. AFLCMC is charged with life cycle management of Air Force weapon systems from their inception to retirement. The AFLCMC mission is to support qualities of war-winning. Hanscom is also home to three Air Force Program Executive Offices.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AIR FORCE BASE, SITE #1 MASSACHUSETTS		4. PROJECT TITLE: CHILD DEVELOPMENT CENTER		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER MXRD203001	8. PROJECT COST (\$000) 37,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				
CHILDHOOD DEVELOPMENT CENTER (740-884)	SM	3,411	5,012	17,495 (17,096)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(399)
SUPPORTING FACILITIES				
UTILITIES	LS			14,423 (1,237)
SITE IMPROVEMENTS	LS			(2,578)
SITE PREPARATIONS	LS			(487)
SOIL MITIGATION	LS			(10,121)
SUBTOTAL				31,918
CONTINGENCY (5.0%)				1,596
TOTAL CONTRACT COST				33,514
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				2,178
ALTERNATE DELIVERY METHOD DESIGN COST				1,277
TOTAL REQUEST				36,969
TOTAL REQUEST (ROUNDED)				37,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,923)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct new Child Development Center including child-learning space, play space, sleeping space, administrative support area, kitchen area, active shooter/safe rooms, playgrounds and supporting infrastructure. Construction shall employ systems and techniques to make the building net zero greenhouse gas emissions. The project includes all utilities, site improvements, pavements, detection /protection features, security enhancements and other supporting work necessary to make a complete and useable facility. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency and eliminating carbon emissions. The facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01. This will be carried out as a prototype project pursuant to the authority in Sec. 4022, Title 10 United States Code notwithstanding subchapters I and III of chapter 169 of title 10, United States Code, and chapter 11 of title 40, United States Code.				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AIR FORCE BASE, SITE #1 MASSACHUSETTS		4. PROJECT TITLE: CHILD DEVELOPMENT CENTER	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER MXRD203001	8. PROJECT COST (\$000) 37,000
Air Conditioning: 160 Tons			
<p>11. REQUIREMENT: 3,411 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Child Development Center</p> <p>REQUIREMENT: Construct a Child Development Center with playgrounds configured according to draft FC 4-740-14F standard design. The large Child Development Center will be constructed to accommodate a capacity of 264 children for ages 6 weeks through 5 years. The Air Force is required to meet Department of Defense goal and common operating standards of providing 100% of priority 1 children within 90 days of our total childcare requirement. This is not a tenant or support service requirement.</p> <p>CURRENT SITUATION: The Child Development Center currently has a capacity of 242 children and infants. The new requirement determined by the Specific Enterprise Execution Direction Executive Board is for an additional 264 children. These two factors have made the new overall requirement at Hanscom Air Force Base 506 children. Hanscom Air Force Base's strategy to meet the Department of Defense goal and improve quality of life is to construct an additional child development center and to expand the on-base Family Child Care program to meet the new capacity requirement. Primary families consist of mid-level Non-Commissioned Officers with young children. Per Air Force Common Operating Standards Child Development Centers must place 100% of priority 1 children within 90 days. Hanscom Air Force Base does not meet Air Force standard and without increasing capacity, Hanscom cannot support the continual mission growth.</p> <p>IMPACT IF NOT PROVIDED: Without additional capacity, the Child Development Center will continue to have a waiting list of approximately 85 for immediate care and 60 for projected care. The average waiting time is 208 days, and the average cost of childcare off-base is 30% higher than on-base care.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements, and the Child Development Center Facility Requirements Plan. Facility and playground areas must comply with current safety standards and the Consumer Product Safety Guidelines for Playgrounds. This design shall conform to</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AIR FORCE BASE, SITE #1 MASSACHUSETTS		4. PROJECT TITLE: CHILD DEVELOPMENT CENTER	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER MXRD203001	8. PROJECT COST (\$000) 37,000
<p>criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project. All reasonable alternatives were considered during the development of this project with new construction the only viable option to meet this requirement. A formal economic analysis is in progress and will be completed before approval of the President's Budget in the year of execution. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1- 200-02 is partially compliant or not applicable. The project does not fall within or partly within the 100-year floodplain. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The supporting facilities cost exceeds 25% of the primary facilities cost due to soil mitigation.</p> <p>66 ABG Civil Engineer, Base Civil Engineer: (781) 225-2999</p> <p>Child Development Center: 3,411 Square Meters = 36,716 Square Feet</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AIR FORCE BASE, SITE #1 MASSACHUSETTS		4. PROJECT TITLE: CHILD DEVELOPMENT CENTER	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER MXRD203001	8. PROJECT COST (\$000) 37,000
12. SUPPLEMENTAL DATA			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	23-MAR-22		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	15%		
(e) Date 35% Designed	09-SEP-23		
(f) Date Design Complete	31-JAN-24		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(b) Where Design Was Most Recently Used	N/A		
(3) Total cost = (a) + (b) and (d) + (e) (\$000)			
(a) Production of Plans and Specifications	2,220		
(b) All Other Design Costs	1,110		
(c) Total	3,330		
(d) Contract	2,775		
(e) In-house	555		
(4) Construction Contract Award	24-FEB		
(5) Construction Start	24-MAR		
(6) Construction Completion	26-OCT		
(7) Acquisition Strategy: Other Transaction Authority			
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
COMMUNICATIONS/DATA/SECURITY	3080	2026	90
FURNITURE/FIXTURES	3080	2026	300
COPY/AUDIO VISUAL EQUIPMENT	3400	2026	25
KITCHEN EQUIPMENT PLAYGROUND	3080	2026	508
EQUIPMENT	3080	2026	1,000

1 COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS			4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC 4		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 70,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					
SEMI-CONDUCTOR/MICROELECTRONICS LAB		SM	15,068	10,918	170,330 (164,512)
FAC PEDESTRIAN CONNECTOR		SM	150	16,520	(2,478)
SUSTAINABILITY & ENERGY MEASURES (2.0%)		LS			(3,340)
SUPPORTING FACILITIES					
SITE PREPARATION		LS			32,370 (1,425)
SITE IMPROVEMENTS		LS			(3,692)
PAVEMENTS		LS			(1,722)
SITE UTILITIES		LS			(20,191)
CW PLANT ADDITION		SM	223	2,015	(449)
COMMUNICATIONS		LS			(827)
DEMOLITION B1138, B1139, B1140, B1141, B1142		SM	5,258	773	(4,064)
SUBTOTAL					
CONTINGENCY (5.0%)					
TOTAL CONTRACT COST					
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					
TOTAL REQUEST					
TOTAL REQUEST (ROUNDED)					
<p>10. Description of Proposed Construction: Construct a multi-story building and pedestrian connector using concrete foundations, steel or reinforced concrete superstructure, masonry walls, and energy efficient roofing to accommodate the mission of the facility. Site Utilities includes an addition to the existing chilled water production facility (B1301) to house additional equipment required to meet chilled water demands. The project will demolish buildings B1138 (1,949 SM), B1139 (15 SM), B1140 (1,174 SM), B1141 (1,122 SM), and B1142 (998 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with Department of Defense (DoD) Minimum Antiterrorism Standards for Buildings requirements per UFC 4-010-01.</p> <p>Air Conditioning: 1,730 Tons</p>					

1 COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC 4	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 70,000
<p>11. Requirement: 105,644 SM Adequate: 59,802 SM Substandard: 30,825 SM</p> <p>PROJECT: MIT Semi-Conductor/ Microelectronics Lab Facility</p> <p>REQUIREMENT:A multi-story facility is required to provide space for the Advanced Microelectronics Integration Program for the Massachusetts Institute of Technology Lincoln Laboratory (MIT LL). Starting in the 1950's, MIT LL has been one of the premier Federally Funded Research and Development Centers (FFRDC) for the Department of Defense. MIT LL is the largest DoD R&D FFRDC supporting numerous federal agencies and conducting research on over 400 programs. In 2014, MIT LL performed more than \$830M in research; the Air Force was the largest customer, but the Laboratory supported 30 sponsors across the Federal Government. MIT LL takes projects from the initial concept stage, through simulation and analysis, to design and prototyping, and finally to field demonstration. The ability to provide development, prototyping, and field demonstrations sets MIT LL apart from other FFRDCs.</p> <p>CURRENT SITUATION: The existing buildings are functionally obsolete for the type of research and fabrication required and do not meet current building codes or industry standards for high technology facilities. Much of MIT LL's work involves complex and hazardous processes that utilize quantities of chemicals in excess of allowable limits identified in current building codes. An independent facility assessment completed by a consultant to MIT LL in 2008 and validated by the DoD Joint Advisory Council in 2011 concluded that current and future MIT LL research programs will require a new facility built for modern research. These same buildings also contain hundreds of research staff offices and do not have continuous fire rated corridors for the appropriate movement of hazardous chemicals to and from the semiconductor growth and fabrication facilities. This situation necessitates that hazardous chemicals and gases used in these facilities be restocked in the overnight hours utilizing special transport vessels to minimize risk of personnel exposure. In addition, current codes also require hazardous materials handling laboratories, like these, to be located at ground level to allow easier emergency response in the event of a toxic gas or chemical release event. These existing laboratories are on the 4th floor.</p> <p>IMPACT IF NOT PROVIDED: Space constraints and other facility deficiencies will continue to hamper the MIT LL mission and create unnecessary risk to high dollar DoD research. Currently, many critical programs are scattered across multiple floors of five different 1950's and 60's-era buildings. In addition to the safety and code issues associated with handling and moving hazardous materials, this project will consolidate the distributed compound semiconductor and advanced packaging laboratories into a single purpose-built facility designed to safely handle and support complex electronic research and development functions. Without this new facility, MIT LL's ability to</p>			

1 COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC 4	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 70,000
<p>continue its important work will be impaired and increasingly degraded. As a result, work to provide next generation laser radar and sensing systems, low size weight and power (low-SWAP) application- specific microsystems, integrated sensor packages for unmanned air vehicles (UAVs) and unattended ground sensors (UGSs), and concealable ultra-low- power electronics will be delayed.</p> <p>ADDITIONAL: The criteria/scope for this program is not specified in Air Force Manual (AFMAN) 32-1084, "Facility Requirements". AFMAN 32-1084 does not contain sizing criteria for Research, Development, Test, & Evaluation (RDT&E) facilities. This facility was sized based on an in-depth analysis of the user's mission and requirements performed by HDR in February 2013. This design shall conform to criteria established in the Air Force Corporate Facility Standards (AFCFS) and the Installation Facility Standards (IFS),but will not employ a standard design because there is no AF standard facility design to accommodate the facility's mission. A waiver to economic analysis has been approved. This project does not fall within or partly within the 100-year flood plain.</p> <p>Base Civil Engineer: 781-225-2999</p> <p>MIT Semi-Conductor / Microelectronics Lab Facility: 15,068 SM = 162,190 SF</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.</p>			

1 COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023																												
3. INSTALLATION, SITE AND LOCATION HANSKOM AIR FORCE BASE HANSKOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC 4																													
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 70,000																												
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Type of Design</td> <td></td> </tr> <tr> <td>(b) Date Design Started</td> <td>23-OCT-17</td> </tr> <tr> <td>(c) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2021</td> <td>100 %</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>07-MAR-18</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>03-MAR-19</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>13,500</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>6,750</td> </tr> <tr> <td>(c) Total</td> <td>20,250</td> </tr> <tr> <td>(d) Contract</td> <td>16,875</td> </tr> <tr> <td>(e) In-house</td> <td>3,375</td> </tr> </table> <p>(4) Construction Contract Award 19-AUG</p> <p>(5) Construction Start 19-SEP</p> <p>(6) Construction Completion 24-DEC</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>				(a) Type of Design		(b) Date Design Started	23-OCT-17	(c) Parametric Cost Estimates used to develop costs	YES	(d) Percent Complete as of 01 JAN 2021	100 %	(e) Date 35% Designed	07-MAR-18	(f) Date Design Complete	03-MAR-19	(g) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	13,500	(b) All Other Design Costs	6,750	(c) Total	20,250	(d) Contract	16,875	(e) In-house	3,375
(a) Type of Design																															
(b) Date Design Started	23-OCT-17																														
(c) Parametric Cost Estimates used to develop costs	YES																														
(d) Percent Complete as of 01 JAN 2021	100 %																														
(e) Date 35% Designed	07-MAR-18																														
(f) Date Design Complete	03-MAR-19																														
(g) Energy Study/Life-Cycle analysis was/will be performed	YES																														
(a) Standard or Definitive Design -	NO																														
(b) Where Design Was Most Recently Used -																															
(a) Production of Plans and Specifications	13,500																														
(b) All Other Design Costs	6,750																														
(c) Total	20,250																														
(d) Contract	16,875																														
(e) In-house	3,375																														

1 COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE MIT-LINCOLN LAB (WEST LAB CSL/MIF), INC 4	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153006	8. PROJECT COST (\$000) AUTH: 0 APPR: 70,000

c. Authorization and Appropriation:

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY 2019 Enacted	225,000	90,000	90,000
FY 2020 Enacted	-----	135,000	135,000
Cost Variation AUG 21	100,000	-----	-----
FY 2023 Enacted	-----	30,200	30,200
FY 2024 Budget Request	-----	70,000	70,000
Total	325,000		325,200

Project: MIT-Lincoln Lab (West Lab CSL/MIF), Inc, Hanscom AFB, MA

Project Spending Plan

As of: 17-Feb-23

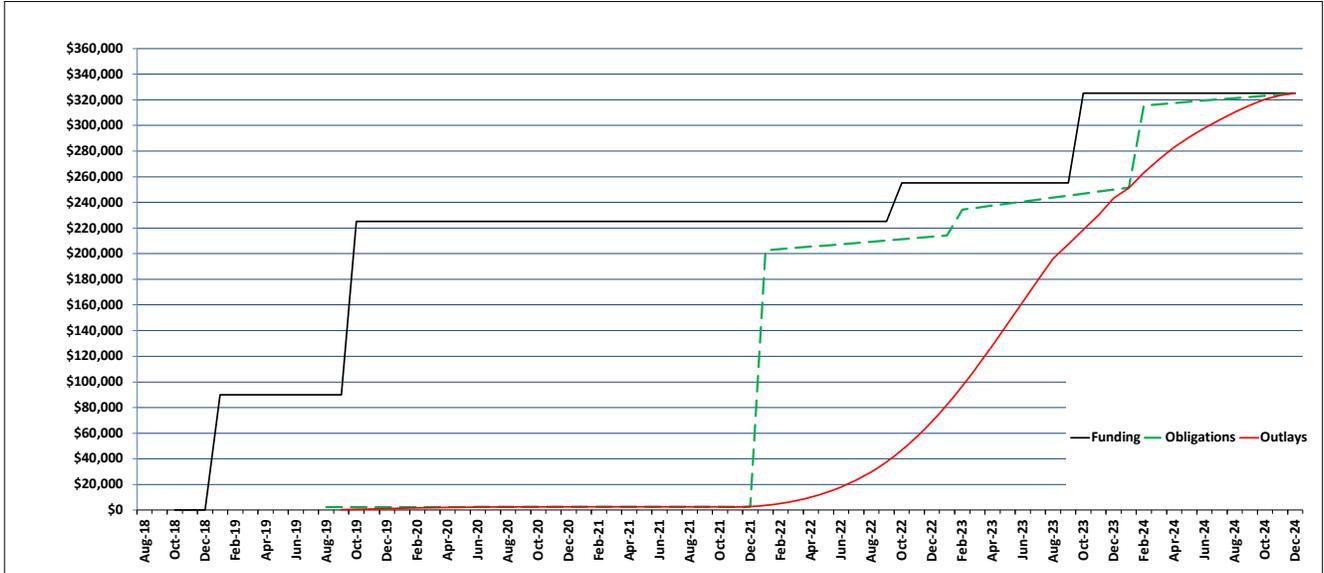
All Cost in thousands (\$000)

Chart Begin Sep-19	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Aug-18						
Sep-18						
Oct-18	-	-				
Nov-18	-	-				
Dec-18	-	-				
Jan-19	90,000	90,000				
Feb-19	-	90,000				
Mar-19	-	90,000				
Apr-19	-	90,000				
May-19	-	90,000				
Jun-19	-	90,000				
Jul-19	-	90,000				
Aug-19	-	90,000	2,347	2,347		
Sep-19	-	90,000	13	2,360	248	248
Oct-19	135,000	225,000	13	2,374	248	496
Nov-19	-	225,000	13	2,387	248	744
Dec-19	-	225,000	13	2,401	248	992
Jan-20	-	225,000	13	2,414	248	1,240
Feb-20	-	225,000	13	2,427	248	1,488
Mar-20	-	225,000	13	2,441	248	1,737
Apr-20	-	225,000	13	2,454	248	1,985
May-20	-	225,000	13	2,467	248	2,233
Jun-20	-	225,000	13	2,481	248	2,481
Jul-20	-	225,000	-	2,481	-	2,481
Aug-20	-	225,000	-	2,481	-	2,481
Sep-20	-	225,000	-	2,481	-	2,481
Oct-20	-	225,000	-	2,481	-	2,481
Nov-20	-	225,000	-	2,481	-	2,481
Dec-20	-	225,000	-	2,481	-	2,481
Jan-21	-	225,000	-	2,481	-	2,481
Feb-21	-	225,000	-	2,481	-	2,481
Mar-21	-	225,000	-	2,481	-	2,481
Apr-21	-	225,000	-	2,481	-	2,481
May-21	-	225,000	-	2,481	-	2,481
Jun-21	-	225,000	-	2,481	-	2,481
Jul-21	-	225,000	-	2,481	-	2,481
Aug-21	-	225,000	-	2,481	-	2,481
Sep-21	-	225,000	-	2,481	-	2,481
Oct-21	-	225,000	-	2,481	-	2,481
Nov-21	-	225,000	-	2,481	-	2,481
Dec-21	-	225,000	-	2,481	-	2,481
Jan-22	-	225,000	200,000	202,481	1,183	3,664
Feb-22	-	225,000	966	203,447	1,592	5,255
Mar-22	-	225,000	966	204,413	2,104	7,360
Apr-22	-	225,000	966	205,379	2,734	10,094
May-22	-	225,000	966	206,345	3,491	13,585
Jun-22	-	225,000	966	207,311	4,380	17,965
Jul-22	-	225,000	966	208,277	5,401	23,366
Aug-22	-	225,000	966	209,243	6,544	29,910
Sep-22	-	225,000	966	210,209	7,792	37,703
Oct-22	30,200	255,200	966	211,175	9,118	46,821
Nov-22	-	255,200	966	212,141	10,485	57,306
Dec-22	-	255,200	966	213,107	11,847	69,153
Jan-23	-	255,200	966	214,073	13,155	82,308
Feb-23	-	255,200	20,200	234,273	14,355	96,663
Mar-23	-	255,200	1,566	235,839	15,393	112,056
Apr-23	-	255,200	1,566	237,405	16,221	128,277
May-23	-	255,200	1,566	238,971	16,797	145,074
Jun-23	-	255,200	1,566	240,537	17,093	162,167
Jul-23	-	255,200	1,566	242,103	17,093	179,259
Aug-23	-	255,200	1,566	243,669	16,797	196,056
Sep-23	-	255,200	1,566	245,235	11,221	207,277
Oct-23	70,000	325,200	1,566	246,801	11,500	218,777
Nov-23	-	325,200	1,566	248,367	11,355	230,132
Dec-23	-	325,200	1,566	249,933	13,155	243,288
Jan-24	-	325,200	1,566	251,499	8,000	251,288
Feb-24	-	325,200	64,041	315,540	11,726	263,014
Mar-24	-	325,200	966	316,506	10,617	273,631
Apr-24	-	325,200	966	317,472	9,292	282,923
May-24	-	325,200	966	318,438	8,044	290,967
Jun-24	-	325,200	966	319,404	6,901	297,868
Jul-24	-	325,200	966	320,370	6,500	304,368
Aug-24	-	325,200	966	321,336	6,000	310,368
Sep-24	-	325,200	966	322,302	5,500	315,868
Oct-24	-	325,200	966	323,268	4,500	320,368
Nov-24	-	325,200	966	324,234	3,000	323,368
Dec-24	-	325,200	966	325,200	1,832	325,200

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2019.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of August 2019, Contract completion: December 2024, Duration 64 months.



1. COMPONENT AIR FORCE			FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20230301		
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE, MISSISSIPPI						4. COMMAND AIR EDUCATION AND TRAINING COMMAND			5. AREA CONSTRUCTION COST INDEX 0.73		
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-SEP-22	491	460	1,234	493	0	0	0	0	0	2,678
b. END FY		482	460	1,234	493	0	0	0	0	0	2,669
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										5,982	
b. INVENTORY TOTAL AS OF 30-SEP-22										3,915,633.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										39,500.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										36,750.00	
h. GRAND TOTAL										3,991,883.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
171-212	T-7A GROUND BASED TRAINING SYSTEM FACILITY		3,159 SM		30,000	10/21	12/22				
171-625	T-7A UNIT MAINTENANCE TRAINING FACILITY		1,115 SM		9,500	10/21	12/22				
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJOR FUNCTIONS Columbus Air Force Base's primary missions are Specialized Undergraduate Pilot Training (SPUT) and Introduction to Fighter Fundamentals (IFF). Columbus Air Force Base's mission statement is "Train World Class Pilots". The 37th Flying Training Squadron (FTS) and 41st FTS operate the T-6A, the 48th FTS operates the T-1A, and the 50th FTS operates the T-38C, all as part of SUPT course, and the 49th Fighter Training Squadron operates the T-38C as part of the IFF course. The units of 14th Flying Training Wing provide support for base administrative services, transportation and supply, civil engineering, communications, security, financial, religious, educational, legal, social actions, medical services, and morale, welfare, and recreational facilities and activities.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE COLUMBUS AIR FORCE BASE SITE 1 MISSISSIPPI		4. PROJECT TITLE T-7A GROUND BASED TRAINING SYSTEM FACILITY		
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER EEPZ197001	8. PROJECT COST (\$000) 30,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				24,799
FLIGHT SIMULATOR TRAINING	SM	3,159	7,771	(24,549)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				2,014
UTILITIES	LS			(663)
SITE IMPROVEMENTS	LS			(164)
PAVEMENTS	LS			(998)
SITE PREPARATIONS	LS			(70)
PRIVATIZED UTILITY CONNECTION FEE	LS			(119)
SUBTOTAL				26,813
CONTINGENCY COST (5%)				1,341
TOTAL CONTRACT COST				28,154
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,830
TOTAL REQUEST				29,984
TOTAL REQUEST (ROUNDED)				30,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(30,010)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a facility for housing a ground-based training simulator system, which consists of: simulators, training devices, computer-based training systems, and academics. The facility will utilize conventional design and construction methods to accommodate the mission of the Columbus Air Force Base's student pilot training. The construction includes a one-story steel framed structure with a slab-on-grade reinforced concrete foundation, brick and insulated metal panel exterior walls, and both a standing seam metal and low-slope roof system. Facility areas will include administration offices with supporting functions, classrooms, brief/debrief rooms, and storage space for T-7A pilot flight simulator training. Additionally, high-bay simulator bays are needed to accommodate the appropriate clearances for the three Aircrew Training Device categories: Weapon Systems Trainer, Operational Flight Trainer and Unit Training Device. Supporting facilities include all utilities, site improvements, pavements and site preparations necessary to make a complete and useable facility. Privatized utility connection fees are included in their respective supporting facilities line item for electrical connections to commercial power. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE COLUMBUS AIR FORCE BASE SITE 1 MISSISSIPPI			4. PROJECT TITLE T-7A GROUND BASED TRAINING SYSTEM FACILITY	
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER EEPZ197001	8. PROJECT COST (\$000) 30,000	
<p>project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 135 Tons</p>				
<p>11. REQUIREMENT: 3,159 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: T-7A GROUND BASED TRAINING SYSTEM FACILITY</p> <p>REQUIREMENT: Facility is needed to support all essential T-7A flight simulator training. Headquarters Air Education and Training Command is engaged in a \$20B major acquisition effort to re-capitalize its aging fleet of 430 T-38C aircraft and associated training systems. The T-38C is used in Air Education Training Command's Specialized Undergraduate Pilot Training program which provides advanced training for student pilots selected for fighter and bomber assignments. These systems are currently located at five existing AETC bases and will be replaced with the T-7A system comprised of 350 total aircraft. This project provides a facility to house specialized simulator equipment and classrooms for instructors and students to receive training on T-7A aircraft systems. The improved fidelity and aerodynamic modeling required in the Ground Based Training System devices will enable better training and allow some tasks to be moved from flight training (in live aircraft) to Aircrew Training Devices (simulators). More capable aircraft and Aircrew Training Devices will provide better opportunities to move flight training from the Formal Training Units into Specialized Undergraduate Pilot Training and Introduction to Fighter Fundamentals, thereby reducing the high cost of flight hours in fifth-generation aircraft normally required to develop experienced pilots. Overall, this facility will improve training efficiency and reduce costs in flight-hours, producing a better trained pilot in less time. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: Currently, there are three existing Flight Simulator Facilities, Building 268, Building 216, and Building 234, All three facilities are at full capacity for pilot training operations and do not contain available space to accommodate simulator bays and associated training spaces to meet the new mission's requirements, which are scheduled to begin August of 2027.</p> <p>Maintaining status quo would result in negative impacts to the T-7A pilot simulator training mission. The installation does not have a single facility that is adequate or large enough to fulfill the requirement making the use of other facilities on base non-viable. There are no existing facilities that can be adequately renovated to meet the new mission's flexibility needs or configuration requirements of the specialized equipment, and an addition is not easily achievable due to site constraints of the existing flight simulator and training facilities. Leased or contractor-owned/operated facilities will not meet the configuration requirements or permanent nature of the T-7A flight simulator mission and is a non-viable option. New construction is determined to be the only method possible to accomplish the objective.</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE COLUMBUS AIR FORCE BASE SITE 1 MISSISSIPPI		4. PROJECT TITLE T-7A GROUND BASED TRAINING SYSTEM FACILITY	
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER EEPZ197001	8. PROJECT COST (\$000) 30,000

IMPACT IF NOT PROVIDED: If not provided, an adequate Flight Simulator Facility will not be available for pilots to train and maintain proficiency in operational tactics development for the T-7A aircraft. This project provides critical real-world mission rehearsal and training for T-7A pilots. As the aircraft transitions from T-38C to T-7A, existing assets are not designed to accommodate the change in aircraft and a new facility must be provided by the time of the first T-7A aircraft arrives at Columbus Air Force Base. A lack of ability to train on the simulators affects the overall operational capability of the warfighter.

The Ground Based Training System timeline is driven by the set date for T-7A Initial Operating Capability and on the Air Force Strategic Basing Decision.

ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis waiver is in progress. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Corps of Engineers. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.

14th Civil Engineer Squadron, Base Civil Engineer: 662-434-7325.

Flight Simulator Training: 3,159 Square Meter = 34,003 Square Feet.

JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE COLUMBUS AIR FORCE BASE SITE 1 MISSISSIPPI		4. PROJECT TITLE T-7A GROUND BASED TRAINING SYSTEM FACILITY	
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER EEPZ197001	8. PROJECT COST (\$000) 30,000
12. SUPPLEMENTAL DATA			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	15-OCT-2021		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	100%		
(e) Date 35% Designed	30-DEC-2021		
(f) Date Design Complete	16-DEC-2022		
(g) Energy Study/Life-Cycle analysis was performed	YES		
(2) Basis:			
(a) Standard or Definitive Design -	NO		
(b) Where Design Was Most Recently Used -	N/A		
(3) Total cost = (a) + (b) and (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	1,799		
(b) All Other Design Costs	899		
(c) Total	2,698		
(d) Contract	2,249		
(e) In-house	449		
(4) Construction Contract Award	24-MAR		
(5) Construction Start	24-APR		
(6) Construction Completion	26-MAY		
b. Equipment associated with this project provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated or Requested	Cost (\$000)
FURNITURE FIXTURES & EQUIPMENT	3080	2026	910
MISSION EQUIPMENT	3080	2025	29,100

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023		
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE COLUMBUS AIR FORCE BASE SITE 1 MISSISSIPPI				4. PROJECT TITLE T-7A UNIT MAINTENANCE TRAINING FACILITY			
5. PROGRAM ELEMENT 84701F		6. CATEGORY CODE 171-625	7. PROJECT NUMBER EEPZ197002		8. PROJECT COST (\$000) 9,500		
9. COST ESTIMATES							
ITEM				U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES							8,998
HIGH BAY TECHNICAL TRAINING				SM	1,115	7,846	(8,748)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS				LS			(250)
SUPPORTING FACILITIES							392
UTILITIES				LS			(189)
SITE IMPROVEMENTS				LS			(19)
PAVEMENTS				LS			(135)
PRIVATIZED UTILITY CONNECTION FEE				LS			(49)
SUBTOTAL							9,390
CONTINGENCY COST (5%)							470
TOTAL CONTRACT COST							9,860
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)							641
TOTAL REQUEST							10,501
TOTAL REQUEST (ROUNDED)							10,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(21,105)
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct an aircraft maintenance training facility. The facility will utilize conventional design and construction methods to accommodate the mission of Columbus Air Force Base's annual maintenance training program. The construction includes a one-story steel framed structure with a slab-on-grade reinforced concrete foundation, and brick and metal panel exterior walls. The roof consists of low-slope roofing over rigid insulation. Facility areas will include administration offices with supporting functions, classrooms, tool crib, communications room, and hi-bay lab spaces to accommodate a seat and canopy, and an avionics/cockpit trainer. Supporting facilities include all utilities, site improvements, pavements, site preparations and special foundations necessary to make a complete and useable facility. Privatized utility connection fees are included in their respective supporting facilities line item for electrical connections to commercial power. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 25 Tons</p>							

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE COLUMBUS AIR FORCE BASE SITE 1 MISSISSIPPI		4. PROJECT TITLE T-7A UNIT MAINTENANCE TRAINING FACILITY		
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-625	7. PROJECT NUMBER EEPZ197002	8. PROJECT COST (\$000) 9,500	
<p>11. REQUIREMENT: 1,115 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: T-7A UNIT MAINTENANCE TRAINING FACILITY</p> <p>REQUIREMENT: Facility is needed to support all essential maintenance training of T-7A aircraft. Headquarters Air Education and Training Command is engaged in a \$20B major acquisition effort to re-capitalize its aging fleet of 430 T-38C aircraft and associated training systems. The T-38C is used in Air Education and Commands' Specialized Undergraduate Pilot Training program which provides advanced training for student pilots selected for fighter and bomber assignments. These systems are currently located at five existing Air Education Training and Command bases and will be replaced with the T-7A system comprised of 350 total aircraft. This project provides a facility to house specialized maintainer equipment and classrooms for instructors and students to receive training on T-7A aircraft systems.</p> <p>The T-7A will utilize the two-level maintenance (organizational and depot) concept for all aircraft (to include engines) and existing intermediate level maintenance may be utilized for supporting sub-systems (e.g., wheel and tire build, nondestructive inspection, fabrication). The Unit Maintenance Training Facility is part of the larger Maintenance Training System Acquisition, which will include a Centralized Training Facility at Joint Base San Antonio-Randolph, and smaller capacity Unit Maintenance Training Facilities at the other Air Education Training and Command T-7A bases. The Unit Maintenance Training Facilities will provide prerequisite training for attendance at the Centralized Training Facilities and will also support recurring and continuation training for all aircraft maintainers. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: Currently, there are no existing Unit Maintenance Training Facilities at Columbus to accommodate training bays or classroom spaces to which meet the new mission's requirements. Maintaining status quo would result in negative impacts to the T-7A maintainer training mission. The installation does not have a single facility that is adequate or large enough to fulfill the requirement making the use of other facilities in the area non-viable. There are no existing facilities that can be adequately renovated to meet the new mission's flexibility needs or configuration requirements of the specialized equipment, and an addition is not possible since no facilities for unit maintenance training exist. Leased or contractor owned/operated facilities will not meet the configuration requirements or permanent nature of the T-7A maintainer training mission and is a non-viable option. New construction is determined to be the only method possible to accomplish the objective.</p> <p>IMPACT IF NOT PROVIDED: Without this project, the required T-7A maintenance training capabilities will not be available causing delays in the training pipeline. Workarounds do not allow the squadron to train together and</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE COLUMBUS AIR FORCE BASE SITE 1 MISSISSIPPI		4. PROJECT TITLE T-7A UNIT MAINTENANCE TRAINING FACILITY	
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-625	7. PROJECT NUMBER EEPZ197002	8. PROJECT COST (\$000) 9,500
<p>significantly impact the training mission required to support the Air Force T-7A Maintenance Training program. The Unit Maintenance Training facility timeline is driven by the set date for T-7A Initial Operating Capability and the Air Force Strategic Basing Decision.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis waiver is in progress. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Corps of Engineers. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>14th Civil Engineer Squadron, Base Civil Engineer: 662-434-7325.</p> <p>High Bay Technical Training: 1,115 Square Meter = 12,001 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE COLUMBUS AIR FORCE BASE SITE 1 MISSISSIPPI		4. PROJECT TITLE T-7A UNIT MAINTENANCE TRAINING FACILITY		
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-625	7. PROJECT NUMBER EEPZ197002	8. PROJECT COST (\$000) 9,500	
12. SUPPLEMENTAL DATA				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design	Design-Bid-Build			
(b) Date Design Started	15-OCT-2021			
(c) Parametric Cost Estimates used to develop costs	YES			
(d) Percent Complete as of 01 JAN 2023	100%			
(e) Date 35% Designed	30-DEC-2021			
(f) Date Design Complete	16-DEC-2022			
(g) Energy Study/Life-Cycle analysis was performed	YES			
(2) Basis:				
(a) Standard or Definitive Design -	NO			
(b) Where Design Was Most Recently Used -	N/A			
(3) Total cost = (a) + (b) and (d) + (e)	(\$000)			
(a) Production of Plans and Specifications	569			
(b) All Other Design Costs	285			
(c) Total	854			
(d) Contract	711			
(e) In-house	143			
(4) Construction Contract Award	24-MAR			
(5) Construction Start	24-APR			
(6) Construction Completion	26-MAY			
b. Equipment associated with this project provided from other appropriations:				
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated or Requested	Cost (\$000)	
FURNITURE FIXTURES & EQUIPMENT	3080	2026	505	
MISSION EQUIPMENT	3080	2025	20,600	

1. COMPONENT AIR FORCE		FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA				4. COMMAND AIR FORCE MATERIAL COMMAND			5. AREA CONSTRUCTION COST INDEX 0.88				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		268	812	14,385	0	0	0	995	4,465	550	21,475
b. END FY		279	895	14,475	0	0	0	1,019	4,495	585	21,748
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										5,604	
b. INVENTORY TOTAL AS OF 30-SEP-22										6,787,684.00	
c. AUTHORIZATION NOT YET IN INVENTORY										369,600.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										142,000.00	
g. REMAINING DEFICIENCY										3,353,250.00	
h. GRAND TOTAL										10,652,534.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY			b. COST (\$000)			c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE						(1) START	(2) COMPLETE	
211-116	KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 3		13,842 SM			78,000			06/20	09/21	
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJOR FUNCTIONS Tinker Air Force Base combined mission includes operations, supply, maintenance and management in support of the 76th Maintenance Wing, 552nd ACW, 327th Air Sustainment Wing, 448th Combat Sustainment Wing, 3rd Combat Comm, Air Force Reserves, Navy STRATCOM Wing One, 72nd Air Base Wing, Defense Logistics Agency and Defense Information Systems Agency.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023		
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA				4. PROJECT TITLE: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 3			
5. PROGRAM ELEMENT 41221F		6. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK213001		8. PROJECT COST (\$000) AUTH: 0 APPR: 78,000		
9. COST ESTIMATE							
ITEM				U/M	QTY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES							122,158
HANGAR, MAINTENANCE DEPOT (211-116)				SM	13,842	5,830	(80,699)
SHOP, AIRCRAFT GENERAL PURPOSE (211-152)				SM	3,716	2,669	(9,918)
APRON (113-321)				SM	33,187	410	(13,607)
SHOULDER, PAVED (116-642)				SM	560	178	(100)
PAD, WARMUP, HOLDING (116-666)				SM	30,621	306	(9,370)
VEHICLE PARKING NON ORGANIZATIONAL (852-262)				SM	10,156	160	(1,625)
HYDRANT FUELING SYSTEM (121-122)				OL	4	965,000	(3,860)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS				LS			(2,979)
SUPPORTING FACILITIES							17,267
BUREAU OF RECLAMATION WATER LINE				LS			(6,985)
RELOCATION UTILITIES				LS			(2,758)
STORM DRAINAGE				LS			(1,152)
COMMUNICATIONS				LS			(701)
SITE IMPROVEMENTS				LS			(4,860)
PASSIVE FORCE PROTECTION MEASURES				LS			(234)
REAL PROPERTY INSTALLED EQUIPMENT (CRANE)				LS			(577)
SUBTOTAL							139,425
CONTINGENCY (5.0%)							6,971
TOTAL CONTRACT COST							146,396
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)							8,345
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)							5,577
TOTAL REQUEST							160,318
TOTAL REQUEST (ROUNDED)							160,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(9,450)
10. DESCRIPTION OF PROPOSED WORK: Construct a high bay depot maintenance hangar for the KC-46A Pegasus Aerial Refueling Aircraft. The facility consists of three hangar docks sized to enclose the KC-46A aircraft and required clearances. Within the facility, there is a central area that houses the metal shop, kitting area, tool room, break room, and administrative offices. Additionally, there are utility rooms, communications rooms and other support spaces located within the hangar. The hangar bays will							

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
2. INSTALLATION AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		3. PROJECT TITLE: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 3		
4. PROGRAM ELEMENT 41221F	5. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK213001	8. PROJECT COST (\$000) AUTH: 0, APPR: 78,000	
<p>accommodate the aircraft in both nose-in and tail-in configuration. Overhead cranes and fall protection will be integrated into this facility. The exterior facility envelope will be metal panels on girts with brick wainscot and large sliding hangar door. Construct a general purpose aircraft shop as a standalone facility with an exterior facility envelope similar to the maintenance hangar. The facility will consist of a panel shop, kitting build up area, kitting repair area, kitting system area, inventory area, drop off area, administrative area, restrooms, and utility rooms. The exterior facility envelope will be similar to the maintenance hangar. This project also includes clearing and grading site, storm drainage, aircraft parking/movement area, utility infrastructure systems, and other supporting facilities. Demolish existing Bureau of Reclamation water main and reroute around Tinker Air Force Base. No acquisition of real estate will be required to reroute the water main. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per United Facilities Criteria 4-010-01 and Unified Facilities Criteria 1-200-02.</p> <p>Air Conditioning: 67 Tons</p>				
<p>11. REQUIREMENT: 13,842 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM PROJECT: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 3 REQUIREMENT: Tinker Air Force Base currently supports depot maintenance for multiple United States Air Force aircraft. In keeping with this mission, the base will host the depot maintenance for the new KC-46A aircraft. The depot maintenance complex is required to provide a reliable and responsive infrastructure for this weapons system in order to provide timely/efficient repair and maintenance. Specifically, this three bay hangar dock will perform required programmed depot maintenance for the KC-46A. The aircraft general purpose shop will provide aircraft kits required for depot maintenance. The first aircraft will arrive at Tinker for depot maintenance in Mid-2020. Full production will average 90 aircraft per year. This is not a tenant or supported service requirement. CURRENT SITUATION: The facilities and supporting infrastructure is a critical requirement to support the success of the new KC-46A mission. Depot maintenance ensures aircraft are properly/efficiently maintained & repaired to safeguard the pilots and longevity of the aircraft. Existing facilities and infrastructure within Tinker Air Force Base will not support the required</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
2. INSTALLATION AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		3. PROJECT TITLE: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 3		
4. PROGRAM ELEMENT 41221F	5. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK213001	8. PROJECT COST (\$000) AUTH: 0, APPR: 78,000	
<p>maintenance of this aircraft due to its size and workload amount. The KC-46A has a wing span of 165 feet.</p>				
<p>IMPACT IF NOT PROVIDED: Failure to construct this program depot maintenance hangar would critically impact the Air Force's ability to repair and maintain the KC-46A aircraft. Depot maintenance is critical to the KC-46A mission.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in the Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from from the Air Force Civil Engineer Center nor the Army Corps of Engineers. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with UFC 1-200-02: High Performance and Sustainable Building Requirements. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>72nd Air Base Wing Base Civil Engineer: (405) 734-3451.</p> <p>Hangar, Maintenance Depot: 13,842 SM = 148,994 Square Feet;</p> <p>Shop, Aircraft General Purpose: 3,716 SM = 39,999 Square Feet;</p> <p>Apron: 560 SM = 6,028 Square Feet;</p> <p>Pad, Warmup, Holding: 30,621 SM = 329,602 Square Feet;</p> <p>Vehicle Parking Non Organizational: 10,156 SM = 109,314 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
2. INSTALLATION AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		3. PROJECT TITLE: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 3		
4. PROGRAM ELEMENT 41221F	5. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK213001	8. PROJECT COST (\$000) AUTH: 0, APPR: 78,000	
12. SUPPLEMENTAL DATA				
a. Estimated Design Data:				
(1) Status				
(a) Type of Design				Design-Build
(b) Date Design Started				02-JUN-20
(c) Parametric Cost Estimates used to develop costs				YES
(d) Percent Complete as of 01 JAN 2023				100%
(e) Date 35% Designed				01-AUG-20
(f) Date Design Complete				09-SEP-21
(g) Energy Study/Life-Cycle cost analysis was/will be performed				YES
(2) Basis:				
(a) Standard or Definitive Design				NO
(b) Where Design Was Most Recently Used				N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e)				(\$000)
(a) Production of Plans and Specifications				9,600
(b) All Other Design Costs				4,800
(c) Total				14,400
(d) Contract				12,000
(e) In-house				2,400
(4) Construction Contract Award				22-APR
(5) Construction Start				22-MAY
(6) Construction Completion				25-MAY
b. Equipment associated with this project provided from other appropriations:				
			FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
EQUIPMENT NOMENCLATURE	PROCURING APPROP			
COMPUTERS	3400		2025	100
COMMUNICATIONS	3080		2025	600
FURNISHINGS	3080		2025	400
AGE & SUPPORT EQUIPMENT	3080		2025	4,425
MX & TEST STANDS/TESTERS	3080		2025	3,925

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
2. INSTALLATION AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		3. PROJECT TITLE: KC-46A 3-BAY DEPOT MAINTENANCE HANGAR, INC 3	
4. PROGRAM ELEMENT 41221F	5. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK213001	8. PROJECT COST (\$000) AUTH: 0, APPR: 78,000

c. Authorization and Appropriation:

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2022 Enacted	160,000	60,000	85,000
FY2023 Enacted	-----	49,000	49,000
FY2024 Budget Request	-----	78,000	78,000
Total	160,000		212,000

A 10 USC 2853 notification will be submitted to support the increase in authorization.

Project: KC-46A 3-Bay Depot Maintenance Hanger, Inc 3, Tinker AFB, OK

Project Spending Plan

As of: 28-Feb-23

All Cost in thousands (\$000)

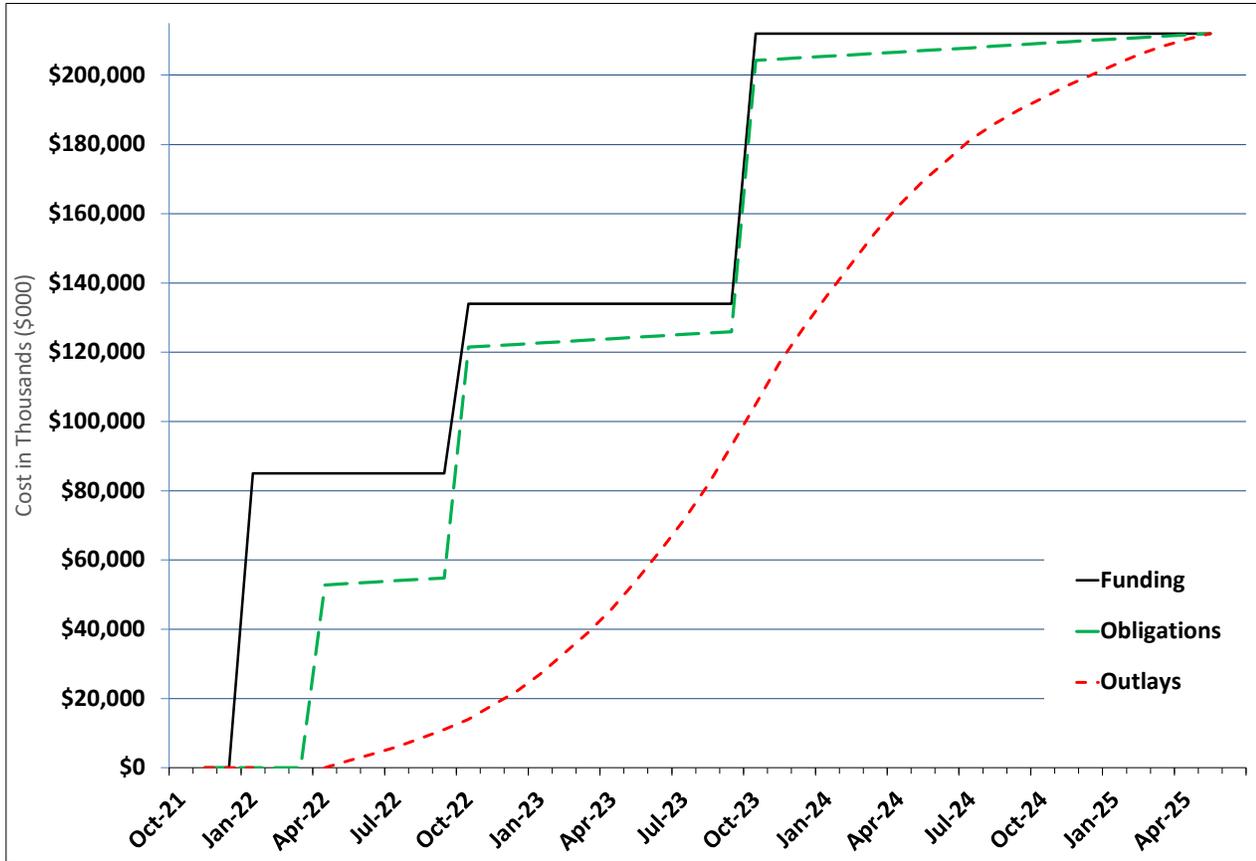
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Nov-21	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Nov-21	-	-	-	-	-	-
Dec-21	-	-	-	-	-	-
Jan-22	85,000	85,000	-	-	-	-
Feb-22	-	85,000	-	-	-	-
Mar-22	-	85,000	-	-	-	-
Apr-22	-	85,000	52,800	52,800	-	-
May-22	-	85,000	406	53,206	2,000	2,000
Jun-22	-	85,000	406	53,612	2,000	4,000
Jul-22	-	85,000	406	54,018	2,000	6,000
Aug-22	-	85,000	406	54,424	2,500	8,500
Sep-22	-	85,000	406	54,830	2,500	11,000
Oct-22	49,000	134,000	66,646	121,476	3,000	14,000
Nov-22	-	134,000	406	121,882	4,000	18,000
Dec-22	-	134,000	406	122,288	4,000	22,000
Jan-23	-	134,000	406	122,694	5,000	27,000
Feb-23	-	134,000	406	123,100	6,000	33,000
Mar-23	-	134,000	406	123,506	6,000	39,000
Apr-23	-	134,000	406	123,912	7,000	46,000
May-23	-	134,000	424	124,336	8,000	54,000
Jun-23	-	134,000	406	124,742	8,500	62,500
Jul-23	-	134,000	406	125,148	9,000	71,500
Aug-23	-	134,000	406	125,554	10,000	81,500
Sep-23	-	134,000	406	125,960	11,500	93,000
Oct-23	78,000	212,000	78,326	204,286	12,000	105,000
Nov-23	-	212,000	406	204,692	12,000	117,000
Dec-23	-	212,000	406	205,098	10,000	127,000
Jan-24	-	212,000	406	205,504	9,500	136,500
Feb-24	-	212,000	406	205,910	9,000	145,500
Mar-24	-	212,000	406	206,316	9,000	154,500
Apr-24	-	212,000	406	206,722	8,000	162,500
May-24	-	212,000	406	207,128	7,000	169,500
Jun-24	-	212,000	406	207,534	6,000	175,500
Jul-24	-	212,000	406	207,940	6,000	181,500
Aug-24	-	212,000	406	208,346	4,500	186,000
Sep-24	-	212,000	406	208,752	4,000	190,000
Oct-24	-	212,000	406	209,158	3,500	193,500
Nov-24	-	212,000	406	209,564	3,500	197,000
Dec-24	-	212,000	406	209,970	3,000	200,000
Jan-25	-	212,000	406	210,376	3,000	203,000
Feb-25	-	212,000	406	210,782	3,000	206,000
Mar-25	-	212,000	406	211,188	2,250	208,250
Apr-25	-	212,000	406	211,594	2,000	210,250
May-25	-	212,000	406	212,000	1,750	212,000

Note 1: Assumes initial appropriation is enacted by Congress January 2022.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of Apr 2022 and contract completion May 2025; Duration 38 months

KC-46A 3-Bay Depot Maintenance Hanger, Inc 3, Tinker AFB, OK



1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA					4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 0.99			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		356	2,953	556	0	0	0	11	13	0	3,889
b. END FY		356	2,953	567	0	0	0	11	13	0	3,900
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										9,716	
b. INVENTORY TOTAL AS OF 30-SEP-22										2,933,274.00	
c. AUTHORIZATION NOT YET IN INVENTORY										587,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										235,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										197,472.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										44,000.00	
g. REMAINING DEFICIENCY										358,900.00	
h. GRAND TOTAL										4,355,646.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
211-179	B-21 FUEL SYSTEM MAINTENANCE DOCK		3,430 SM		75,000	09/21	06/23				
211-116	B-21 PHASE HANGAR		6,782 SM		160,000	08/21	06/23				
215-582	B-21 WEAPONS GENERATION FAC, INC 2		5,694 SM		160,000	07/19	10/21				
9. FUTURE PROJECTS											
141-181 B-21 Construct EPS's (60 Row) (9,848 SM / \$55,000)											
113-321 B-21 Alert Apron Expansion (7,878 / \$17,000)											
141-753 B-21 ADAL Ops 1 (100 SM / \$84,472)											
141-181 B-21 Construct EPS's (80 Row) (11,818 SM / \$33,000)											
141-181 B-21 Construct EPS's (100 Row) (18,952 SM / \$11,000)											
10. MISSION OR MAJOR FUNCTIONS											
Ellsworth AFB consists of the 28th Bomb Wing assigned to the 8th Air Force under Air Force Global Strike Command. The mission of the 28th Bomb Wing is to put bombs on target. The 28th Bomb Wing is home to 27 B-1B Lancers, and in 2012 began flying MQ-9 Reaper missions. The 28th Bomb Wing is divided into the 28th Operations Group, the 28th Maintenance Group, the 28th Mission Support Group and the 28th Medical Group. The 89th Attack Squadron is a tenant unit at Ellsworth Air Force Base assigned to Air Combat Command.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 FUEL SYSTEM MAINTENANCE DOCK			
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER FXBM241479	8. PROJECT COST (\$000) 75,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					51,071
FUEL SYSTEM MAINTENANCE DOCK (211-179)		SM	3,430	14,350	(49,221)
APRON (113-321)		SM	800	700	(560)
SHOULDER, PAVED (116-642)		SM	100	400	(40)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(1,250)
SUPPORTING FACILITIES					15,791
SITE PREPARATION		LS			(3,500)
SITE IMPROVEMENTS		LS			(2,000)
ROADS, SIDEWALKS, AND PARKING		LS			(2,500)
UTILITIES		LS			(4,000)
COMMUNICATIONS		LS			(1,800)
DEMOLITION		SM	2,655	750	(1,991)
SUBTOTAL					66,862
CONTINGENCY (5%)					3,343
TOTAL CONTRACT COST					70,205
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					4,563
TOTAL REQUEST					74,768
TOTAL REQUEST (ROUNDED)					75,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(2,550)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a Fuel System Maintenance Dock using conventional design and construction methods. Construction will include; a steel framed structure, reinforced concrete slab and foundation system, masonry block and metal panel exterior walls, and standing seam metal roof. The facility includes powered hangar doors, temperature & humidity controls, ventilation, fire protection and 0.5-ton overhead hoists and fall protection in the high bay. All necessary utilities, site improvements, conventional and airfield pavements, communications infrastructure, and all necessary supporting work for a complete and usable facility will be included. Demolition of the existing Dock 80/Building 7244 (2,655 SM), existing apron pavements, sidewalks, and removing utilities. The facility will have secure areas built to Intelligence Community Directive 705 standards. Due to existing expansive clay soils, excavation for reinforced concrete foundation and floor slabs will require over-excavation. Contaminated soil may be encountered during demolition of pavements and must be properly disposed of. Pavements will be designed in accordance to Unified Facilities Criteria 2-260-01					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 FUEL SYSTEM MAINTENANCE DOCK	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER FXBM241479	8. PROJECT COST (\$000) 75,000
<p>and Unified Facilities Criteria 2-260-02. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01. Air Conditioning: 17 Tons</p>			
<p>11. REQUIREMENT: 3,430 SM ADEQUATE: 0 SM SUBSTANDARD: 2,962 SM</p> <p>PROJECT: Construct a Fuel System Maintenance Dock.</p> <p>REQUIREMENT: This project constructs a Fuel Cell Support Facility, which includes a fuel cell bay to fit one B-21 aircraft, with adjacent shops / training rooms and composite tool kits storage, tool crib, clean and dirty workspace transition rooms. The administrative areas will include secure, Special Access Program and non-secure spaces, offices along with a conference room and communications rooms. The remainder of the facility is comprised of utility spaces (fire pump, mechanical, electrical, and communications) and support areas. The hangar bay will have proper mitigation for fuel vapors that are present and released in fuels systems maintenance. The B-21 requirement is for two Fuel System maintenance bays. This project constructs one fuels systems maintenance bay and the administrative and support areas. The adjacent hangar, Dock 81, will be converted to a Fuels Systems Maintenance Dock by a companion repair project and will include an enclosed connection to this building.</p> <p>This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: This is a new requirement to support the B-21. There are no facilities that meet this requirement. There is one facility, Dock 93, which is currently used for B-1 Fuel System maintenance. However, the B-1 and B-21 operational missions will run concurrently. Dock 93 would not meet both missions fuel systems repair needs. In addition, the B-21 aircraft dimensions are different than the B-1 and Dock 93 would require significant structural building renovations to fit the B-21. No buildings exist that can support a new fuel support facility without heavy mission degradation due to overcrowding and severe efficiency degradation of shared resources. A structural analysis of Dock 80 revealed it has structural deficiencies making the re-use infeasible.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, B-21 fuel system maintenance functions will not be possible resulting in mission degradation and failure. Fuel System maintenance must be conducted in conditions providing protection from the elements to prevent contaminants being introduced to the fuel components and providing the built intrinsically safe working conditions when dealing with fuels. The performance of fuel system maintenance outside would be severely degraded due to adverse weather. This will render aircraft non-mission capable during winter months and times of extreme temperature and cause multiple safety hazards.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084 - Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 FUEL SYSTEM MAINTENANCE DOCK	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER FXBM241479	8. PROJECT COST (\$000) 75,000
<p>is no applicable standard design from Air Force Civil Engineer Center. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis has been completed. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100 year flood plain. Supporting Facilities exceed 25% of the Primary Facilities due to demolition costs to demolish Dock 80 and extensive utility work necessary. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>Base Civil Engineer: (605) 385-2658.</p> <p>FUEL SYSTEM MAINTENANCE DOCK: 3,430 SM = 36,920 Square Feet;</p> <p>APRON: 800 SM = 8,611 Square Feet;</p> <p>SHOULDER, PAVED: 100 SM = 1,076 Square Feet;</p> <p>DEMOLITION: 2,655 SM = 28,578 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 FUEL SYSTEM MAINTENANCE DOCK	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER FXBM241479	8. PROJECT COST (\$000) 75,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status			
(a) Type of Design	DESIGN-BID-BUILD		
(b) Date Design Started	15-SEP-21		
(c) Parametric Cost Estimates Used to Develop Costs	YES		
(d) Percent Complete as of 01 Jan 2023	90%		
(e) Date 35% Designed	27-DEC-21		
(f) Date Design Complete	01-JUN-23		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis			
(a) Standard or Definitive Design Used	NO		
(b) Where Design Was Previously Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000)			
(a) Production of Plans and Specifications	4,020		
(b) All Other Design Costs	2,010		
(c) Total	6,030		
(d) Contract	5,025		
(e) In-House	1,005		
(4) Construction Contract Award	24-MAR		
(5) Construction Start	24-APR		
(6) Construction Completion	26-SEP		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPRO	OR REQUESTED	(\$000)
FURNISHINGS, FIXTURES, & EQUIPMENT	3080	2026	750
PRECONDITIONED AIR UNITS	3080	2026	500
IDS/ACS	3080	2026	1,000
COMMUNICATIONS	3080	2026	300

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA			4. PROJECT TITLE: B-21 PHASE HANGAR		
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 211-116	7. PROJECT NUMBER FXBM241014	8. PROJECT COST (\$000) 160,000	
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					110,979
HANGAR, MAINTENANCE DEPOT (211-116)		SM	6,782	11,078	(75,131)
APRON (113-321)		SM	40,000	686	(27,440)
SHOULDER, PAVED (116-642)		SM	4,500	369	(1,661)
SECURITY POLICE ENTRY CNTRL FACILITY (730-837)		SM	38	21,660	(823)
PIPELINE, LIQUID FUELS - UNDERGROUND (125-553)		LM	875	1,213	(1,061)
FENCE SECURITY/VEHICLE BARRIERS (872-247)		LM	680	1,635	(1,112)
ICD 705 PREMIUM		LS			(1,951)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(1,800)
SUPPORTING FACILITIES					32,183
SITE PREPARATION		LS			(11,030)
SITE IMPROVEMENTS		LS			(1,055)
ROADS, SIDEWALKS, AND PARKING		LS			(3,693)
UTILITIES		LS			(15,967)
PASSIVE FORCE PROTECTION MEASURES		LS			(385)
DEMOLITION		SM	40	1,318	(53)
SUBTOTAL					143,162
CONTINGENCY (5%)					7,158
TOTAL CONTRACT COST					150,320
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					9,771
TOTAL REQUEST					160,091
TOTAL REQUEST (ROUNDED)					160,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(3,199)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a two-bay hangar facility for phase maintenance functions, the replacement and construction of taxiway and apron pavements, two flightline security entry control buildings and security fencing. Construction of hangar includes reinforced concrete foundation and floors, steel frame structure, masonry with metal panel sides and a metal roof. The facility also includes powered hangar doors, temperature & humidity controls, ventilation and 3-ton overhead bridge cranes and fall protection in each bay. Project includes a full depth replacement of limited existing concrete apron pavements and construction of full depth concrete apron pavements for aircraft movement to/from the hangar. Construction of entry control facilities includes reinforced concrete foundation and floor, structural steel frame with brick and masonry façade and a metal roof. Chain-link security fencing will be placed around the expanded flightline area. Project will relocate existing bulk jet fuel line. Project includes all utilities, site improvements, pavements, parking, fire protection, area lighting for night operations					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 PHASE HANGAR	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER FXBM241014	8. PROJECT COST (\$000) 160,000
<p>and security, active and passive vehicle barriers, and other supporting work necessary to make a complete and useable facility. Due to existing expansive clay soils, excavation for reinforced concrete foundation and floor slabs will require over-excavation. Contaminated soil may be encountered during demolition of pavements and must be properly disposed of. The facility will have secure areas built to Intelligence Community Directive 705 standards. The project will demolish Building 7279 (40 SM). Pavements will be designed in accordance to Unified Facilities Criteria 2-260-01 and Unified Facilities Criteria 2-260-02. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning: 70 Tons</p>			
<p>11. REQUIREMENT: 6,782 SM ADEQUATE: 0 SM SUBSTANDARD: 40 SM</p> <p>PROJECT: B-21 Phase Hangar</p> <p>REQUIREMENT: The project constructs an aircraft two bay phase maintenance facility in support of the new B-21 weapons system to provide long term maintenance on the aircraft. The project constructs an apron/taxi lane from phase hangar to Taxiway Alpha. The project constructs two entry control buildings and security fencing in support of securing the new B-21 weapons system from unauthorized access. This project is a unique requirement for full function of Aircraft Maintenance Squadrons to be able to comply with the periodic airframe inspection program and to perform as required time change repair requirements. Functional areas consist of two hangar bays sized to fit B-21 aircraft with adjacent storage space for aircraft structures, support equipment and a central administrative/support component. The facility also requires a Special Access Program area for specific maintenance requirements. Facility will have overhead cranes to perform inspections/repairs and full fall protection system in each bay. Without this facility, aircraft periodic and specialized maintenance cannot be accomplished which is essential for all aircraft maintenance units to assure the air-worthiness of each aircraft and preserve the longevity of airframe and airframe components. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: This is a new requirement to support the B-21. There are no facilities that meet this requirement, nor are there existing facilities that can be modified to meet the requirement. Current phase hangar facilities on Ellsworth AFB are designed and used by/for the existing B-1B mission and cannot house the B-21 as the facilities do not meet the requirements to accept the size of the B-21 airframe. Modification of the existing phase hangars would cause severe mission degradation for the B-1B's as they will still have concurrent missions with the B-21 as it rolls out its bed down. Phase maintenance activities cannot be conducted outside of a designated hangars as no supporting equipment is available or can be available outside of designated areas in order to comply with related technical orders.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, inspection requirements would be conducted outside during weather permitting temperature or at the contractor's facility at a substantial requirement. If this project is not provided, \$27B worth of assets and the future B-21 assets within the restricted area security fencing will be at a higher risk from espionage, sabotage, terrorism, damage, and</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 PHASE HANGAR	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER FXBM241014	8. PROJECT COST (\$000) 160,000
<p>other criminal activity. The installation commander would have to accept the risks of \$27B worth of assets that are unprotected by a security fence.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis has been completed. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100 year flood plain. Supporting Facilities exceed 25% of the Primary Facilities cost due to extensive site preparation for apron and pipeline, in addition to utility work required. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>Base Civil Engineer: (605) 385-2658.</p> <p>Aircraft Phase Hangar: 6,782 SM = 73,001 Square Feet;</p> <p>Apron: 40,000 SM = 430,556 Square Feet;</p> <p>Shoulder, Paved: 4,500 SM = 48,438 Square Feet;</p> <p>Entry Control Building: 38 SM = 409 Square Feet;</p> <p>Liquid Fuels Pipeline: 875 LM = 2,871 Linear Feet;</p> <p>Security Fence: 680 LM = 2,231 Linear Feet;</p> <p>Demolition: 40 SM = 431 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an as available basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 PHASE HANGAR	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER FXBM241014	8. PROJECT COST (\$000) 160,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status			
(a) Type of Design			DESIGN-BID-BUILD
(b) Date Design Started			31-AUG-21
(c) Parametric Cost Estimates Used to Develop Costs			YES
(d) Percent Complete as of 01 Jan 2023			90%
(e) Date 35% Designed			18-NOV-21
(f) Date Design Complete			01-JUN-23
(g) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis			
(a) Standard or Definitive Design Used			NO
(b) Where Design Was Previously Used			N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000)			
(a) Production of Plans and Specifications			8,580
(b) All Other Design Costs			4,290
(c) Total			12,870
(d) Contract			10,725
(e) In-House			2,145
(4) Construction Contract Award			24-APR
(5) Construction Start			24-JUN
(6) Construction Completion			27-MAR
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
EQUIPMENT NOMENCLATURE	PROCURING APPRO	APPROPRIATED OR REQUESTED	COST (\$000)
PRECONDITIONED AIR UNITS	3080	2027	1,595
FURNISHINGS, FIXTURES, & EQUIPMENT	3080	2027	975
INTRUSION DETECTION & ACCESS CONTROL SYS	3080	2027	295
COMMUNICATIONS	3080	2027	334

Project: B-21 Phase Hangar, Ellsworth AFB, SD

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands (\$000)

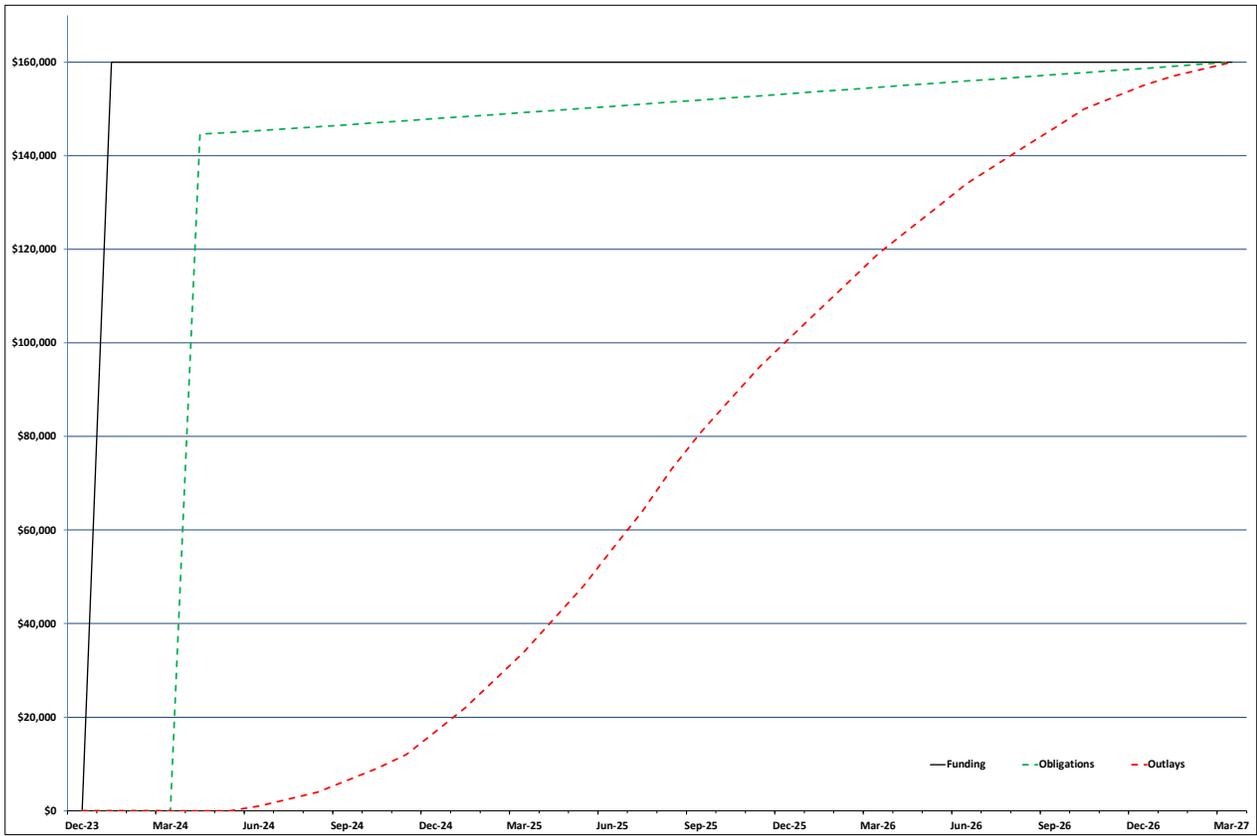
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Dec-23	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Dec-23	-	-	-	-	-	-
Jan-24	160,000	160,000	-	-	-	-
Feb-24	-	160,000	-	-	-	-
Mar-24	-	160,000	-	-	-	-
Apr-24	-	160,000	144,630	144,630	-	-
May-24	-	160,000	350	144,980	-	-
Jun-24	-	160,000	390	145,370	1,000	1,000
Jul-24	-	160,000	390	145,760	1,500	2,500
Aug-24	-	160,000	390	146,150	1,500	4,000
Sep-24	-	160,000	440	146,590	2,500	6,500
Oct-24	-	160,000	440	147,030	2,500	9,000
Nov-24	-	160,000	440	147,470	3,000	12,000
Dec-24	-	160,000	440	147,910	5,000	17,000
Jan-25	-	160,000	440	148,350	5,000	22,000
Feb-25	-	160,000	440	148,790	6,000	28,000
Mar-25	-	160,000	440	149,230	6,000	34,000
Apr-25	-	160,000	440	149,670	7,000	41,000
May-25	-	160,000	440	150,110	7,000	48,000
Jun-25	-	160,000	440	150,550	8,000	56,000
Jul-25	-	160,000	450	151,000	8,000	64,000
Aug-25	-	160,000	450	151,450	9,000	73,000
Sep-25	-	160,000	450	151,900	8,000	81,000
Oct-25	-	160,000	450	152,350	7,000	88,000
Nov-25	-	160,000	450	152,800	7,000	95,000
Dec-25	-	160,000	450	153,250	6,000	101,000
Jan-26	-	160,000	450	153,700	6,000	107,000
Feb-26	-	160,000	450	154,150	6,000	113,000
Mar-26	-	160,000	450	154,600	6,000	119,000
Apr-26	-	160,000	450	155,050	5,000	124,000
May-26	-	160,000	450	155,500	5,000	129,000
Jun-26	-	160,000	450	155,950	5,000	134,000
Jul-26	-	160,000	450	156,400	4,000	138,000
Aug-26	-	160,000	450	156,850	4,000	142,000
Sep-26	-	160,000	450	157,300	4,000	146,000
Oct-26	-	160,000	450	157,750	4,000	150,000
Nov-26	-	160,000	450	158,200	2,500	152,500
Dec-26	-	160,000	450	158,650	2,500	155,000
Jan-27	-	160,000	450	159,100	2,000	157,000
Feb-27	-	160,000	450	159,550	1,500	158,500
Mar-27	-	160,000	450	160,000	1,500	160,000

Note 1: Assumes initial appropriation is enacted by Congress January FY24.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award date of April 2024 and contract completion in March 2027; Contract duration 36 months.

B-21 Phase Hangar, Ellsworth AFB, SD



1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA			4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 2		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 0 APPR: 160,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					140,000
SPECIAL WEAPON MAINTENANCE SHOP (215-582)		SM	5,694	16,192	(92,197)
ALERT FIRE TEAM FACILITY (730-836)		SM	510	18,494	(9,432)
ENTRY CONTROL BUILDING (730-837)		SM	646	15,907	(10,256)
GENERATOR BUILDING (811-147)		SM	149	30,901	(4,604)
WATER FIRE PUMPING STATION (843-316)		SM	301	29,053	(8,745)
GANTRY/BRIDGE CRANE (890-154)		EA	6	648,459	(3,891)
FENCE INTERIOR (872-248)		LM	576	12,917	(7,440)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(3,415)
SUPPORTING FACILITIES					75,965
SITE IMPROVEMENTS		LS			(16,825)
SITE PREPARATION		LS			(7,815)
COMMUNICATIONS		LS			(7,185)
ROADS, SIDEWALKS, AND PARKING		LS			(5,880)
PASSIVE FORCE PROTECTION MEASURES		LS			(9,049)
UTILITES		LS			(28,125)
GENERATORS		KW	1,250	870	(1,088)
SUBTOTAL					215,967
CONTINGENCY COST (10.0%)					21,597
TOTAL CONTRACT COST					237,564
SUPERVISION, INSPECTION & OVERHEAD (5.7%)					13,541
TOTAL REQUEST					251,105
TOTAL REQUEST (ROUNDED)					251,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(52,280)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a Special Weapon Maintenance Shop or more commonly referred to as a Weapons Generation Facility that is a consolidated, hardened facility within a protective zone, with consolidated storage, maintenance, inspection, and administrative functions using best practices from similar Department of the Navy and Department of Energy facilities currently in use. Project will construct a fire suppression					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA			4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 0 APPR: 160,000	
<p>system, all utilities, pavements, communication, site improvements, Security Forces Fire Team Facility, Entry Control Point /Shelter and associated support facilities to provide a complete and useable facility. Six 5-ton overhead bridge cranes will be constructed for maintenance purposes in each maintenance bay. Five of the six will be nuclear certifiable. All construction will meet requirements for essential facility system nuclear design certification. Backup generator is authorized in accordance with Air Force Instruction 32-1062 for this facility type. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with DoD Antiterrorism/Force Protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 150 Tons</p>				
<p>11. REQUIREMENT: 5,694 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct a B-21 Weapons Generation Facility</p> <p>REQUIREMENT: Project is to construct a weapons generation facility to grant nuclear capability at Ellsworth Air Force Base, South Dakota. A reinforced concrete facility that places all nuclear maintenance and storage operations in a single facility to minimize the effects of weather in operations, improve operations security, and increase security posture. Weapons generation facilities are single hardened facilities within a protective zone. Backup generators are a requirement for the facility for the critical operations in the facility. Nuclear certified hoists and cranes are also required to perform asset handling and maintenance functions.</p> <p>CURRENT SITUATION: This is a new requirement to support the B-21. The Ellsworth Air Force Base Weapons Generation Facility initiative is an important element of a broader Weapons Generation Facility Investment Strategy under Air Force Global Strike Command. Ellsworth does not have any facilities that can be used as a weapons generation facility, especially that of nuclear capacity. There are no workarounds to building, storing, and the maintaining of the armament load out for the B-21 without the initiative of a weapons generation facility at Ellsworth Air Force Base.</p> <p>IMPACT IF NOT PROVIDED: No facilities currently exist to handle the B-21 requirements. The stand-up of a nuclear capable mission at Ellsworth Air Force Base is a strategic based decision. The bed down of the new B-21 bomber at Ellsworth Air Force Base is the platform to project this strategic mission. If this project is not funded, the storage and maintenance of weapons will not be feasible at Ellsworth Air Force Base. Lack of adequate weapons storage and maintenance facilities at Ellsworth Air Force Base will prevent diversification of the Air Force's nuclear mission, placing continued strain on the current nuclear bomber force. All areas of the facility are required for it to operate as a nuclear certified facility. It is not possible to</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 0 APPR: 160,000

separate the facility into complete and usable phases.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084 - Facility Requirements. This project will comply with Department of Defense S-5210.41M. Ammunitions and Explosives Safety Standards will comply with DoD Manual 6055.09 Vol 2. All construction will meet requirements for essential facility system nuclear design certification per Air Force Manual 91-118, Air Force Manual 91-119, and Facilities Criteria 04- 420-07F. The project storage, maintenance and admin area will comply with Department of Defense Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives per Department of Defense Manual 5100.76-M. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. A waiver to an Economic Analysis has been approved for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100 year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.

Base Civil Engineer: (605) 385-2658.

Special Weapon Maintenance Shop: 5,694 SM = 61,290 Square Feet;

Alert Fire Team Facility: 510 SM = 5,490 Square Feet;

Entry Control Building: 646 SM = 6,953 Square Feet;

Generator Building: 149 SM = 1,604 Square Feet;

Water Fire Pumping Station: 301 SM = 3,240 Square Feet;

Fence Interior: 576 Linear Meters = 1,890 Linear Feet.

JOINT USE CERTIFICATION: The facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA			4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 2		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 0 APPR: 160,000		
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status					
(a) Type of Design		DESIGN-BID-BUILD			
(b) Date Design Started		29-JUL-19			
(c) Parametric Cost Estimates Used to Develop Costs		YES			
(d) Percent Complete as of 01 Jan 2023		100%			
(e) Date 35% Designed		15-APR-20			
(f) Date Design Complete		19-OCT-21			
(g) Energy Study/Life Cycle analysis was/will be performed		YES			
(2) Basis					
(a) Standard or Definitive Design Used		NO			
(b) Where Design Was Previously Used		N/A			
(3) Total Cost (c) = (a) + (b) or (d) + (e)		(\$000)			
(a) Production of Plans and Specifications		15,060			
(b) All Other Design Costs		7,530			
(c) Total		22,590			
(d) Contract		18,825			
(e) In-House		3,765			
(4) Construction Contract Award		23-FEB			
(5) Construction Start		23-MAR			
(6) Construction Completion		26-FEB			
b. Equipment associated with this project provided from other appropriations:					
FISCAL YEAR					
EQUIPMENT NOMENCLATURE		PROCURING APPRO	APPROPRIATED	COST	
			OR REQUESTED	(\$000)	
FURNISHINGS, FIXTURES, & EQUIPMENT		3080	2024	2,292	
UPS SYSTEM		3080	2024	1,954	
ELECTRONIC SECURITY EQUIPMENT AIR		3010	2024	44,744	
COMPRESSORS		3400	2024	73	
ISO TEC BOOTH/TURNSTILES		3080	2024	1,080	
CFCI CONVERTERS		3080	2024	2,137	

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ELLSWORTH AFB SOUTH DAKOTA		4. PROJECT TITLE: B-21 WEAPONS GENERATION FACILITY, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 0 APPR: 160,000
c. Title, Authorization, and Appropriation Summary:			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY 2023 Enacted	251,000	50,000	50,000
FY 2024 Budget Request	-----	160,000	160,000
Future Request	-----	41,000	41,000
Total	251,000		251,000

Project: B-21 Weapons Generation Facility, Inc 2, Ellsworth AFB, SD

All Cost in thousands

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands

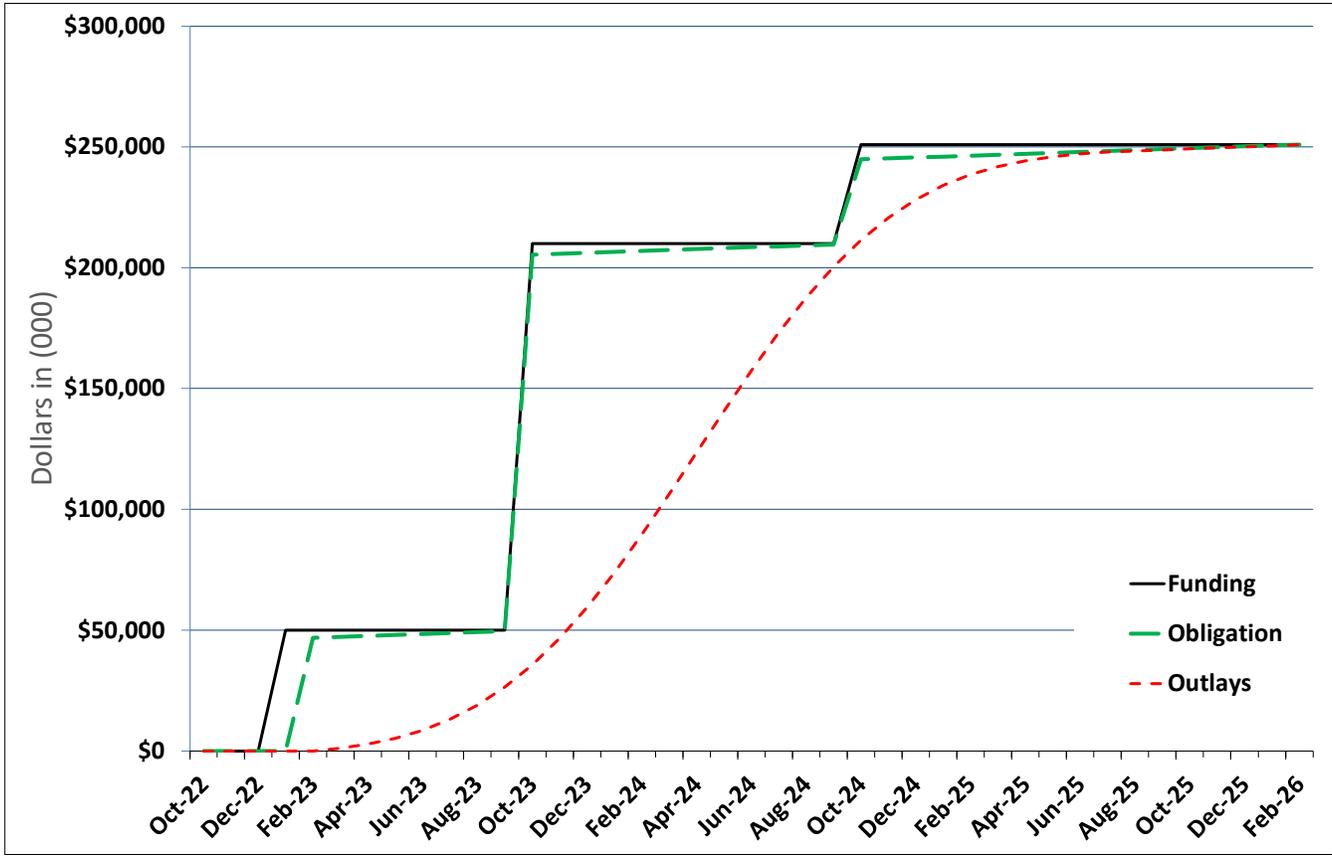
Chart Begin Oct-22	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-22	-	-	-	-	-	-
Nov-22	-	-	-	-	-	-
Dec-22	-	-	-	-	-	-
Jan-23	50,000	50,000	-	-	-	-
Feb-23	-	50,000	46,904	46,904	-	-
Mar-23	-	50,000	387	47,291	1,145	1,145
Apr-23	-	50,000	387	47,678	1,687	2,832
May-23	-	50,000	387	48,065	2,412	5,244
Jun-23	-	50,000	387	48,452	3,346	8,590
Jul-23	-	50,000	387	48,839	4,507	13,097
Aug-23	-	50,000	387	49,226	5,893	18,990
Sep-23	-	50,000	387	49,613	7,478	26,468
Oct-23	160,000	210,000	155,743	205,356	9,211	35,679
Nov-23	-	210,000	387	205,743	11,014	46,693
Dec-23	-	210,000	387	206,130	12,782	59,475
Jan-24	-	210,000	387	206,517	14,399	73,874
Feb-24	-	210,000	387	206,904	15,745	89,619
Mar-24	-	210,000	387	207,291	16,711	106,331
Apr-24	-	210,000	387	207,678	17,216	123,547
May-24	-	210,000	387	208,065	17,216	140,763
Jun-24	-	210,000	387	208,452	16,711	157,475
Jul-24	-	210,000	387	208,839	15,745	173,219
Aug-24	-	210,000	387	209,226	14,399	187,619
Sep-24	-	210,000	387	209,613	12,782	200,401
Oct-24	41,000	251,000	35,195	244,808	11,014	211,414
Nov-24	-	251,000	387	245,195	9,211	220,626
Dec-24	-	251,000	387	245,582	7,478	228,104
Jan-25	-	251,000	387	245,969	5,893	233,997
Feb-25	-	251,000	387	246,356	4,507	238,504
Mar-25	-	251,000	387	246,743	3,346	241,850
Apr-25	-	251,000	387	247,130	2,412	244,262
May-25	-	251,000	387	247,517	1,687	245,948
Jun-25	-	251,000	387	247,904	1,145	247,094
Jul-25	-	251,000	387	248,291	755	247,849
Aug-25	-	251,000	387	248,678	483	248,332
Sep-25	-	251,000	387	249,065	300	248,632
Oct-25	-	251,000	387	249,452	511	249,143
Nov-25	-	251,000	387	249,839	444	249,587
Dec-25	-	251,000	387	250,226	403	249,990
Jan-26	-	251,000	387	250,613	379	250,369
Feb-26	-	251,000	387	251,000	631	251,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2023.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in February 2023 and contract completion February 2026; duration 37 months.

B-21 Weapons Generation Facility, Inc 2, Ellsworth AFB, SD



1. COMPONENT AIR FORCE			FY 2024 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO, TEXAS						4. COMMAND AIR EDUCATION AND TRAINING COMMAND				5. AREA CONSTRUCTION COST INDEX 0.94		
6. PERSONNEL			(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22			3,104	9,431	16,540	1,435	18,684	25	2,574	5,060	8,147	65,000
b. END FY			3,107	9,375	16,464	1,447	19,054	28	2,568	4,738	7,454	64,235
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE										46,307		
b. INVENTORY TOTAL AS OF 30-SEP-22										20,119,413.00		
c. AUTHORIZATION NOT YET IN INVENTORY										590,600.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										186,000.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										184,417.00		
g. REMAINING DEFICIENCY										2,274,930.00		
h. GRAND TOTAL										23,355,360.00		
8. PROJECTS REQUESTED IN THIS PROGRAM												
a. CATEGORY						b. COST (\$000)		c. DESIGN STATUS				
(1) CODE	(2) PROJECT TITLE				(3) SCOPE				(1) START	(2) COMPLETE		
740-884	CHILD DEVELOPMENT CENTER				3,821 SM		20,000		02/20	05/21		
9. FUTURE PROJECTS												
171-621 Medical Education and Training Campus #1 (TBD SM/\$186,000)												
730-773 BMT Chapel For America's Airmen (8,081 SM/\$136,417)												
141-456 91 Cyber Operations Center (3,958 SM/\$48,000)												
10. MISSION OR MAJOR FUNCTIONS												
The 502nd Air Base Wing (ABW) is the host wing for Joint Base San Antonio (JBSA) which is comprised of three primary locations; JBSA-Lackland, JBSA-Randolph, JBSA-Fort Sam Houston as well as eight other operating locations. The 502 ABW provides installation support services to more than 41 Air Force Mission Partners, 30 US Army Mission Partners, 6 US Navy Mission Partners, US Marine Corps Mission Partners, US Coast Guard, and 15 US Governmental Organizations Mission Partners, that accomplish diverse training, flying, cyber, intelligence, medical and installations missions every day.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES												
N/A												

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AFB SITE #1 TEXAS		4. PROJECT TITLE CHILD DEVELOPMENT CENTER		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER MPLS013290	8. PROJECT COST (\$000) AUTH:20,000 APPR: 20,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				
CHILD DEVELOPMENT CENTER	SM	3,821	4,897	18,961 (18,711)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				
SITE IMPROVEMENTS	LS			6,344 (861)
OUTDOOR PLAY AREA	LS			(1,074)
UTILITIES	LS			(820)
COMMUNICATIONS	LS			(378)
PAVEMENTS	LS			(1,279)
PRIVATIZED UTILITY CONNECTION	LS			(534)
FEE PASSIVE FORCE PROTECTION	LS			(426)
MEASURES ENVIRONMENTAL	LS			(163)
REMEDICATION DEMOLITION	SM	722	1,120	(809)
SUBTOTAL				
CONTINGENCY (5.0%)				
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
EQUIPMENT FROM OTHER APPROPRIATIONS				
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a large child development center utilizing the standard facility design. The new facility will include child development areas for infants, pre-toddlers, toddlers, preschoolers, administrative space, lobby areas, public restrooms, storage rooms, kitchen area and playground areas with equipment provided from other appropriations. The construction will consist of concrete foundation, concrete floor slabs, structural steel frame, masonry walls and standing seam metal roof. The project will include all utilities, site improvements, pavements, security systems, passive force protection measures to include perimeter fencing and lighting, and other supporting work necessary to make a complete and usable facility. This project will demolish Building 2602 (722 SM). The environmental remediation includes testing/removal of asbestos and lead-based paint and any work needed to mitigate potential hazards. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01,				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AFB SITE #1 TEXAS			4. PROJECT TITLE CHILD DEVELOPMENT CENTER	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER MPLS013290	8. PROJECT COST (\$000) AUTH:20,000 APPR: 20,000	
General Building Requirements and the Department of Defense Antiterrorism/ Force Protection requirements per Unified Facilities Criteria 4-010-01. Air Conditioning: 250 Tons				
<p>11. Requirement: 3,821 SM Adequate: 0 SM Substandard: 722 SM</p> <p>PROJECT: Child Development Center</p> <p>REQUIREMENT: This project is to construct a large child development center that is adequately sized and that will deliver a care center that meets all Air Force standards to include force protection. The intent is to replace Lackland's existing Child Development Center at Kelly Annex which is located outside the perimeter fence and leased from the Port of San Antonio. This project will allow children using the leased facility to relocate to main base Lackland and divest of the leased facility at Kelly Annex. The new center is required to provide a safe and healthy environment that includes early childhood development and preschool programs for dependents of active duty military personnel, Department of Defense civilian personnel, and reservists on active duty or during inactive duty training. This is not a tenant or support service requirement.</p> <p>CURRENT SITUATION: Joint Base San Antonio is the largest Joint Base in the Department of Defense, Lackland Child Development Centers only have a total capacity of 561 child care spaces with a waitlist of 555 children of which 391 are Priority No 1. With the growing mission at Joint Base San Antonio, the current capacity will never meet the need without an additional child development center. Per Air Force standards, the child development centers must place 100% of priority No 1 children within 90 days of application for enrollment. With this deficit, Joint Base San Antonio - Lackland has not been able to meet this standard for over 5 years. The existing Child Development Center is currently supporting the capacity at Lackland but is located outside the perimeter fence at Port of San Antonio and creates a major security concern as there is no entry control point and is located in an area with a significant crime rate. This child development center had a Force Protection and Antiterrorism survey completed in January 2018 which resulted with one finding and eight observations. The survey recommended that Lackland relocate the center onto main base Lackland to ensure the safest environment for the children and personnel assisting. The families that are on the waiting list are currently being referred to Family Child Care Program and Child Care Award of America for placement in community based programs. Temporary facilities are not an option for child care due to the strict fire, life and safety codes for these centers. The need for additional on-base child care is critical due to the lack of affordable, accredited facilities in the local economy.</p> <p>IMPACT IF NOT PROVIDED: Failure to provide adequate on-base child care facilities results in additional cost, time and worries for service members and civilian</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AFB SITE #1 TEXAS			4. PROJECT TITLE CHILD DEVELOPMENT CENTER	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER MPLS013290	8. PROJECT COST (\$000) AUTH:20,000 APPR: 20,000	
<p>employees. This situation has an immediate and long-lasting negative impact on mission accomplishments through the organization. The existing Child Development Center will continue to be a significant security concern and will prevent our service members from having a piece of mind that their children are being cared for in a safe environment.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in the Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and shall employ the Facilities Criteria 4-740-14F: Air Force Child Development Centers. All reasonable alternatives were considered during the development of this project to include: add/alter, renovation and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis was completed in March 2020. Sustainable principles, to include life-cycle cost effective practices, will be integrated in the design, development and construction of the project in accordance with the Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project does not fall within or partly within the 100-year flood plain. Supporting facility costs exceed 25% of primary facility cost due to the outdoor play area, demolition of old child development center, and environmental remediation requirements.</p> <p>502 Civil Engineering Group, Base Civil Engineer: (210) 671-2977</p> <p>Child Development Center: 3,821 SM = 41,129 SF</p> <p>Demolition: 722 SM = 7,772 SF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AFB SITE #1 TEXAS			4. PROJECT TITLE CHILD DEVELOPMENT CENTER	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER MPLS013290	8. PROJECT COST (\$000) AUTH:20,000 APPR: 20,000	
12. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design				Design-Build
(b) Date Design Started				25-FEB-20
(c) Parametric Cost Estimates Used to develop costs				YES
(d) Percent Complete as of 01 JAN 2023				100%
(e) Date 35% Designed				01-JAN-21
(f) Date Design Complete				17-MAY-21
(g) Energy Study/Life-Cycle analysis was/will be performed				YES
(2) Basis:				
(a) Standard or Definitive Design				YES
(b) Where Design Was Most Recently Used				TYNDALL AFB
(3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000)				
(a) Production of Plans and Specifications				1,065
(b) All Other Design Costs				533
(c) Total				1,598
(d) Contract				1,198
(e) In-house				400
(4) Construction Contract Award				22-APR
(5) Construction Start				22-OCT
(6) Construction Completion				24-AUG
b. Equipment associated with this project provided from other appropriations:				
			FISCAL YEAR	
			APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP		OR REQUESTED	(\$000)
PLAYGROUND EQUIPMENT	3080		FUTURE REQUEST	340
COMMUNICATION EQUIPMENT	3400		FUTURE REQUEST	80
FURNITURE FIXTURES & EQUIPMENT	3080		FUTURE REQUEST	630

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AFB SITE #1 TEXAS		4. PROJECT TITLE CHILD DEVELOPMENT CENTER	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER MPLS013290	8. PROJECT COST (\$000) AUTH:20,000 APPR: 20,000
c. Title, Authorization, and Appropriation Summary:			
FY24 Budget Request is to fund a Cost to Complete for this prior authorized and appropriated project			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2022 Enacted	29,000	29,000	29,000
FY2024 Budget Request	-	20,000	20,000
Total	29,000		49,000

1. COMPONENT AIR FORCE		FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH					4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONSTRUCTION COST INDEX 1.12			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		530	3,345	11,803	0	0	0	156	1,241	397	17,472
b. END FY		535	3,350	11,679	0	0	0	155	1,240	375	17,334
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										996,590	
b. INVENTORY TOTAL AS OF 30-SEP-22										30,086,780.00	
c. AUTHORIZATION NOT YET IN INVENTORY										210,500.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										416,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										234,241.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										174,000.00	
g. REMAINING DEFICIENCY										2,646,100.00	
h. GRAND TOTAL										33,767,621.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
112-211	F-35 T-7A EAST CAMPUS INFRASTRUCTURE		22,417 SM		82,000	05/22	05/23				
9. FUTURE PROJECTS											
211-116, T-7A Depot Maintenance Complex (28,055 SM/\$234,241)											
211-152, F-35 Canopy Repair Facility (6,968 SM/\$59,000)											
211-116, F-35 Radar Cross Section Test Facility (7,565 SM/\$115,000)											
10. MISSION OR MAJOR FUNCTIONS											
Hill Air Force Base is home to Air Force Materiel Command's 75th Air Base Wing, host wing, providing installation support for the Ogden Air Logistics Complex, Air Force Life Cycle Management Center, Air Force Nuclear Weapons Center, Air Force active duty 388th Fighter Wing (F-35A) and Reserve 419th Fighter Wing with more than 50 mission partners. Air Force Life Cycle Management Center provides the latest in command and control and information systems for various weapons platforms including the F-16, F-35, HH-60, E-3 Airborne Warning and Control System and E-8 Joint Surveillance Target Attack Radar System; an Air Force Research Laboratory research site location for the space vehicles directorate; an air base group and recruiting group. The installation has support responsibility for the operation of the Utah Test and Training Range.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AIR FORCE BASE SITE #1 UTAH			4. PROJECT TITLE F-35 T-7A EAST CAMPUS INFRASTRUCTURE		
5. PROGRAM ELEMENT 27142F	6. CATEGORY CODE 112-211	7. PROJECT NUMBER KRSM214638	8. PROJECT COST (\$000) 82,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					14,845
TAXIWAY (112-211)		SM	22,417	409	(9,169)
SHOULDERS, PAVED (116-642)		SM	14,037	150	(2,106)
TAXIWAY LIGHTING (136-667)		LM	4,572	502	(2,295)
TELECOMMUNICATIONS FACILITY (131-111)		SM	56	14,722	(824)
TACTICAL AIR NAVIGATION STATION, FIXED (134-465)		EA	1	233,562	(234)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(217)
SUPPORTING FACILITIES					58,061
SITE IMPROVEMENTS		LS			(10,029)
UTILITIES		LS			(47,532)
PRIVATIZED UTILITIES SERVICE AND CONNECTION		LS			(500)
SUBTOTAL					72,906
CONTINGENCY (5.0%)					3,645
TOTAL CONTRACT COST					76,551
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					4,976
DESIGN DURING CONSTRUCTION					365
TOTAL REQUEST					81,892
TOTAL REQUEST (ROUNDED)					82,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(133)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct infrastructure to support F-35 Maintenance Facilities, F-35 Composite Repair and Training Facilities, and a T-7A Depot Maintenance Complex. The facilities will be located on the east side of Hill AFB adjacent to Foulois Road. The project includes the following: taxiways, tow-ways, roadways, privately owned vehicle parking, government owned vehicle parking, pavements and sidewalks, aircraft and emergency vehicle circulation, tactical air navigation station facility relocation, taxiway extensions, concrete pavement pad for aircraft fueling operations, airfield navigational aids such as airfield lighting systems, utility systems upgrade include utility corridor, fire water protection pump house, central water pump house, communications node building, and necessary work for completing the connection of facility projects. Utilities increase include water systems of water well, water tank, water pumps, water lines, sanitary sewer, storm drainage, electrical power, natural gas, industrial waste, fire protection water, communication information network with technology and climate control building, industrial waste, and necessary site improvements. Facilities will be designed as permanent construction in					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AIR FORCE BASE SITE #1 UTAH			4. PROJECT TITLE F-35 T-7A EAST CAMPUS INFRASTRUCTURE	
5. PROGRAM ELEMENT 27142F	6. CATEGORY CODE 112-211	7. PROJECT NUMBER KRSM214638	8. PROJECT COST (\$000) 82,000	
<p>IMPACT IF NOT PROVIDED: The utility upgrades are required to make the facilities operational. Hill AFB is at risk of not being able to perform depot-level maintenance on the Air Force's new advanced pilot trainer for 5th generation aircraft. Without these facility projects, Ogden Air Logistics Complex lacks necessary facilities needed for production quotas and obligated F-35 composite repair workloads are increasing each year. F-35 aircraft become at risk of not returning to aircraft assigned units on time, and war-fighter may not receive these needed assets when required. Without this project shared utility upgrades for multiple projects will need to be completed by individual facility projects.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. A Waiver to an Economic Analysis has been approved for this project. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Army Corps of Engineers. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Supporting facility costs exceed 25% of primary facility cost because this is primarily a supporting infrastructure project.</p> <p>75 Wing Base Civil Engineer: (801) 777-7505</p> <p>TAXIWAY: 22,417 SM = 241,295 Square Feet</p> <p>SHOULDERS, PAVED: 14,037 SM = 151,093 Square Feet</p> <p>TAXIWAY LIGHTING: 4,572 LM = 15,000 Linear Feet</p> <p>TELECOMUNICATION FACILITY: 56 SM = 603 Square Feet</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AIR FORCE BASE SITE #1 UTAH		4. PROJECT TITLE F-35 T-7A EAST CAMPUS INFRASTRUCTURE	
5. PROGRAM ELEMENT 27142F	6. CATEGORY CODE 112-211	7. PROJECT NUMBER KRSM214638	8. PROJECT COST (\$000) 82,000
<p>JOINT USE CERTIFICATION: This is an installation utility/infrastructure project and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AIR FORCE BASE SITE #1 UTAH		4. PROJECT TITLE F-35 T-7A EAST CAMPUS INFRASTRUCTURE	
5. PROGRAM ELEMENT 27142F	6. CATEGORY CODE 112-211	7. PROJECT NUMBER KRSM214638	8. PROJECT COST (\$000) 82,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	6-MAY-22		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	65%		
(e) Date 35% Designed	15-JUN-22		
(f) Date Design Complete	1-MAY-23		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(b) Where Design Was Most Recently Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	4,920		
(b) All Other Design Costs	2,460		
(c) Total	7,380		
(d) Contract	6,150		
(e) In-house	1,230		
(4) Construction Contract Award	24-FEB		
(5) Construction Start	24-JUL		
(6) Construction Completion	26-JUN		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>OR REQUESTED</u>	<u>(\$000)</u>
FURNITURE FIXTURES & EQUIPMENT	3400	2025	133

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION FE WARREN AIR FORCE BASE, WYOMING					4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 1.04			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		467	2,461	498	0	0	0	415	2,218	725	6,784
b. END FY		463	2,438	493	0	0	0	403	2,178	726	6,701
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										37,518	
b. INVENTORY TOTAL AS OF 30-SEP-22										3,515,187.00	
c. AUTHORIZATION NOT YET IN INVENTORY										194,100.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										85,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										536,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										1,143,075.00	
g. REMAINING DEFICIENCY										102,000.00	
h. GRAND TOTAL										5,575,362.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY			(3) SCOPE			b. COST (\$000)		c. DESIGN STATUS			
(1) CODE	(2) PROJECT TITLE					(1) START		(2) COMPLETE			
141-911	GBSD INTEGRATED COMMAND CENTER, INC 2		5,527 SM			27,000	02/21	08/22			
171-623	GBSD INTEGRATED TRAINING CENTER		3,782 SM			85,000	01/21	12/22			
141-915	GBSD MISSILE HANDLING COMPLEX, INC 2		2,193 SM			28,000	02/21	08/22			
9. FUTURE PROJECTS											
135-583 GBSD Utility Corridor (TBD / \$238,000)					610-249 GBSD Roads & Bridges (TBD/\$114,000)						
212-217 GBSD Consolidated Maintenance Facility (11,797 / \$145,000)					171-518 GBSD Security Forces - LF Tactics Trainer (TBD/\$13,500)						
212-212 GBSD Re-Entry Vehicle Facility (TBD/\$112,000)					211-179 GBSD Land Acquisition Phase 2 (TBD/\$41,000)						
149-512 GBSD LC/LF/CSB Conversions (TBD / \$83,200)					211-179 GBSD Land Acquisition Phase 3 (TBD/\$57,687)						
149-512 GBSD LC/LF/CSB Conversions (TBD / \$440,169)											
149-512 GBSD LC/LF/CSB Conversions (TBD / \$401,919)											
141-911 GBSD Operations Group Facility (TBD / \$32,600)											
10. MISSION OR MAJOR FUNCTIONS											
Francis. E. Warren Air Force Base is home to the 90th Missile Wing (MW) and Headquarters, 20th Air Force of Air Force Global Strike command. The mission of the 90th MW is to defend America with the world's premier combat ready Intercontinental Ballistic Missile (ICBM) force. The 90thMW operates 150 Minuteman III ICBMs on full alert and maintains the missile fields across a 12,600-square-mile area in Wyoming, Nebraska, and Colorado. The wing also operates 9 UH-1N Huey helicopters that perform nuclear convoy security and missile site support.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION F. E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE: GBSD INTEGRATED COMMAND CENTER, INC 2		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-911	7. PROJECT NUMBER GHLN231990	8. PROJECT COST (\$000) AUTH: 0 APPR: 27,000	
9. COST ESTIMATE				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				
MISSILE OPERATIONS BUILDING (141-911)	SM	5,527	9,138	66,445 (50,506)
ICD 705 PREMIUM	LS			(14,291)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(1,648)
SUPPORTING FACILITIES				
UTILITIES	LS			17,705 (1,375)
DUCT BANK TO ITNs 333 & 1284	LS			(679)
CONNECTION TO BUILDINGS 333 & B334	LS			(1,198)
PAVEMENTS	LS			(884)
SITE IMPROVEMENTS	LS			(10,801)
ELECTRICAL	LS			(1,580)
COMMUNICATIONS	LS			(546)
PRIVATIZED UTILITIES FEE	LS			(10)
GENERATOR	KW	800	790	(632)
SUBTOTAL				84,150
CONTINGENCY (5%)				4,208
TOTAL CONTRACT COST				88,358
SIOH (5.7%)				5,036
DESIGN DURING CONSTRUCTION (0.34%)				300
COMMISSIONING (1.5%)				1,325
TOTAL PROJECT COST				95,019
TOTAL PROJECT COST (Rounded)				95,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(14,256)
10. DESCRIPTION OF PROPOSED WORK: Construct a multi-story Integrated Command Center for the new Ground Based Strategic Deterrent Intercontinental Ballistic Missile mission at F.E. Warren Air Force Base. The majority of the facility will meet Intelligence Community Directive 705 technical standards, include mitigation measures for direct hostile threats, emergency power, High-altitude Electromagnetic Pulse, and Chemical, Biological, Radiological protection measures. Project will include all site improvements, utilities, pavements, communications, electrical work and all associated support facilities to provide a complete and useable facility, to include a duct bank to ITN. This mission critical, highly secure facility will be used to provide status of launch centers and launch facilities for the tailored leadership picture and direct the day-to-day activities of the Wing Operations,				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION F. E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE: GBSD INTEGRATED COMMAND CENTER, INC 2		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-911	7. PROJECT NUMBER GHLN231990	8. PROJECT COST (\$000) AUTH: 0 APPR: 27,000	
<p>Maintenance, Security Forces and Cybersecurity personnel operating within the missile field. Program software and Key and Code change capability within this facility allows it to be the primary hub to transfer data on network layers with safe, secure operations. This facility accommodates a crew of 44 personnel as a 24/7 operational facility. In addition to audio/visual, commercial, NIPR, and SIPR communications, there will be a Higher Authority Communication systems and interconnectivity with senior leadership associated with this facility. This project is authorized a generator, per AFI 32-1062. The facility will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air conditioning: 140 Tons</p>				
<p>11. REQUIREMENT: 5,527 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Ground Based Strategic Deterrent Integrated Command Center</p> <p>REQUIREMENT: As an integral part of the weapon system, the Ground Based Strategic Deterrent Integrated Command Center is required to support the deployment and Initial Nuclear Surety Inspection. The Integrated Command Center will fulfill the need for a centralized operations center, house day-to-day mission control, weapon system management, and disaster management.</p> <p>This is not a tenant or supported service requirement. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The current Intercontinental Ballistic Missile Weapon System does not have this requirement nor the capability to meet the new requirement for the Ground Based Strategic Deterrent.</p> <p>IMPACT IF NOT PROVIDED: As an integral part of the Ground Based Strategic Deterrent communication system, the Integrated Command Center must be operational when the first Launch Facility is turned over to the Engineering, Manufacturing and Development contractor for conversion. Some of the required capabilities of the Launch Facility cannot be validated without the Integrated Command Center in an operational state.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standard, but will not employ a standard facility design because there is no AF standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. An analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION F. E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE: GBSD INTEGRATED COMMAND CENTER, INC 2	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-911	7. PROJECT NUMBER GHLN231990	8. PROJECT COST (\$000) AUTH: 0 APPR: 27,000
<p>Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of the Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>90th Missile Wing Base Civil Engineer: (307) 481-3600</p> <p>MISSILE OPERATIONS BUILDING: 5,527 SM = 59,492 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION F. E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE: GBSD INTEGRATED COMMAND CENTER, INC 2	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-911	7. PROJECT NUMBER GHLN231990	8. PROJECT COST (\$000) AUTH: 0 APPR: 27,000
12. SUPPLEMENTAL:			
a. Estimated Design Data:			
(1) Status			
(a) Type of Design	DESIGN-BID-BUILD		
(b) Date Design Started	08-FEB-21		
(c) Parametric Cost Estimates Used to Develop Costs	YES		
(d) Percent Complete as of 01 Jan 2023	100%		
(e) Date 35% Designed	15-APR-21		
(f) Date Design Complete	15-AUG-22		
(g) Energy Study/Life Cycle analysis was/will be performed	YES		
(2) Basis			
(a) Standard or Definitive Design Used	NO		
(b) Where Design Was Previously Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	5,700		
(b) All Other Design Costs	2,850		
(c) Total	8,550		
(d) Contract	7,125		
(e) In-House	1,425		
(4) Construction Contract Award	23-APR		
(5) Construction Start	23-MAY		
(6) Construction Completion	25-JUL		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPRO	OR REQUESTED	(\$000)
COMMUNICATION	3080	2025	4,096
FURNISHINGS, FIXTURES, & EQUIPMENT	3080	2025	1,601
SECURITY EQUIPMENT	3010	2025	1,366
UPS EQUIPMENT	3400	2025	228
AUDIO VISUAL EQUIPMENT	3080	2025	6,965

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION F. E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE: GBSD INTEGRATED COMMAND CENTER, INC 2	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-911	7. PROJECT NUMBER GHLN231990	8. PROJECT COST (\$000) AUTH: 0 APPR: 27,000
c. Authorization and Appropriation Summary:			
	Authorization (\$000)	Auth of Approp (\$000)	Appropriation (\$000)
FY2023 Enacted	95,000	95,000	95,000
FY2024 Budget Request	-----	27,000	27,000
Total	95,000		122,000
A 10 USC 2853 notification will be submitted to support the increase in authorization.			

Project: GBSD Integrated Command Center, Inc 2, FE Warren AFB, WY

Project Spending Plan

As of: 17-Feb-23

All Cost in thousands (\$000)

Chart Begin/End

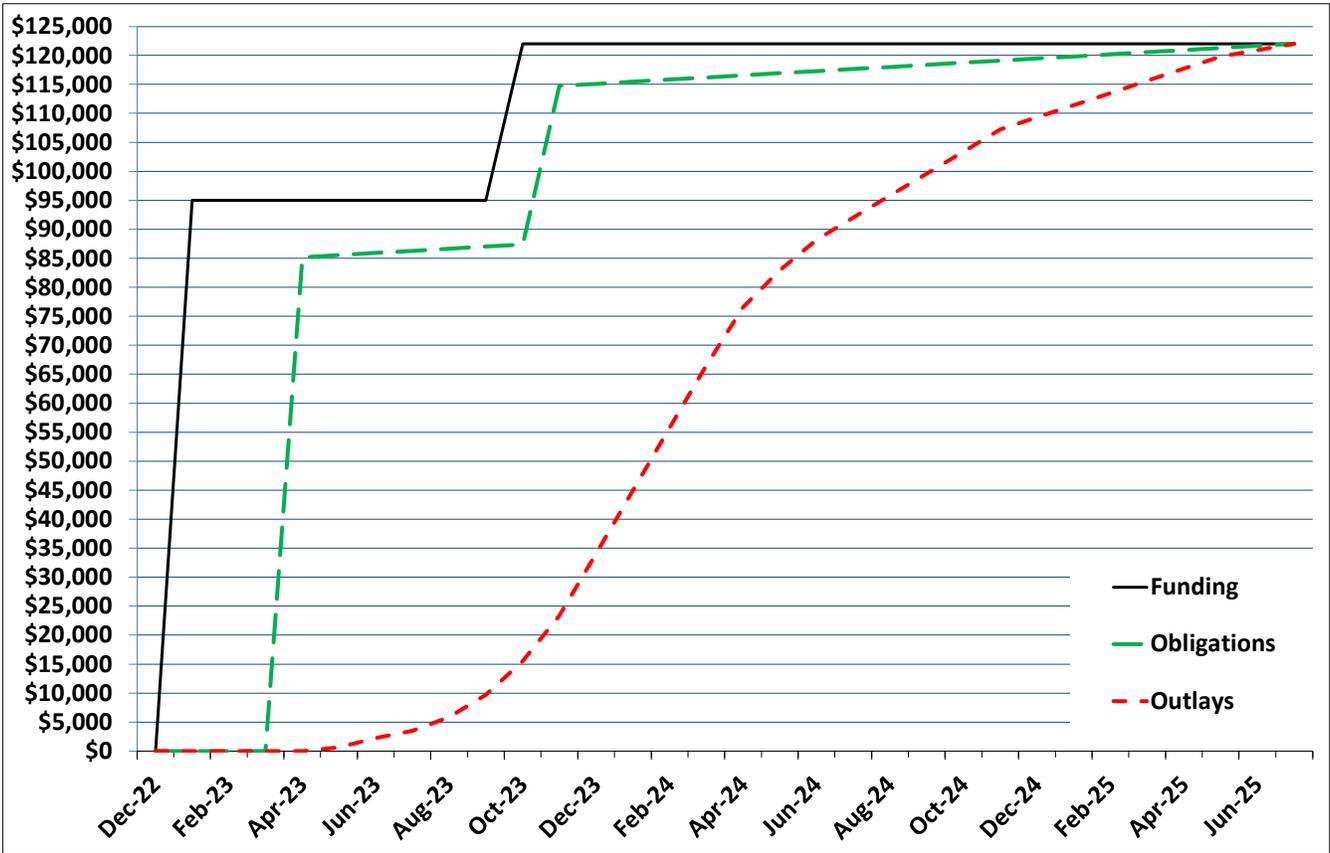
Dec-22	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Jul-25	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Dec-22	-	-	-	-	-	-
Jan-23	95,000	95,000	-	-	-	-
Feb-23	-	95,000	-	-	-	-
Mar-23	-	95,000	-	-	-	-
Apr-23	-	95,000	85,190	85,190	-	-
May-23	-	95,000	363	85,553	632	632
Jun-23	-	95,000	363	85,917	1,593	2,225
Jul-23	-	95,000	363	86,280	1,280	3,505
Aug-23	-	95,000	363	86,644	2,342	5,846
Sep-23	-	95,000	363	87,007	3,874	9,721
Oct-23	27,000	122,000	363	87,370	5,796	15,517
Nov-23	-	122,000	27,363	114,733	7,833	23,350
Dec-23	-	122,000	363	115,097	10,800	34,150
Jan-24	-	122,000	363	115,460	10,800	44,950
Feb-24	-	122,000	363	115,824	10,800	55,750
Mar-24	-	122,000	363	116,187	10,800	66,550
Apr-24	-	122,000	363	116,550	10,000	76,550
May-24	-	122,000	363	116,914	6,350	82,900
Jun-24	-	122,000	363	117,277	5,300	88,200
Jul-24	-	122,000	363	117,641	3,800	92,000
Aug-24	-	122,000	363	118,004	3,800	95,800
Sep-24	-	122,000	363	118,367	3,800	99,600
Oct-24	-	122,000	363	118,731	3,800	103,400
Nov-24	-	122,000	363	119,094	3,800	107,200
Dec-24	-	122,000	363	119,457	2,100	109,300
Jan-25	-	122,000	363	119,821	2,100	111,400
Feb-25	-	122,000	363	120,184	2,100	113,500
Mar-25	-	122,000	363	120,548	2,100	115,600
Apr-25	-	122,000	363	120,911	2,100	117,700
May-25	-	122,000	363	121,274	2,100	119,800
Jun-25	-	122,000	363	121,637	1,100	120,900
Jul-25	-	122,000	363	122,000	1,100	122,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2023.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in APR 2023 and contract completion JUL 2025; duration 27 months.

GBSD Integrated Command Center, Inc 2, FE Warren AFB, WY



1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. Date MARCH 2023
3. INSTALLATION AND LOCATION FE WARREN AIR FORCE BASE FE WARREN AFB SITE #1		4. PROJECT TITLE: GBSD INTEGRATED TRAINING CENTER		
5 PROGRAM ELEMENT 11233F	6. CATEGORY CODE 171-625	7. PROJECT NUMBER GHLN241660	8. PROJECT COST 85,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
TOTAL PRIMARY FACILITIES				63,897
TECHNICAL TRAINING LABORATORY/SHOP (171-623)	SM	3,782	6,422	(24,288)
HIGH-BAY TECHNICAL TRAINING (171-625)	SM	2,324	7,334	(17,044)
AETC TECHNICAL TRAINING SUPPORT (171-627)	SM	1,233	6,422	(7,918)
TECHNICAL TRAINING CLASSROOM (171-621)	SM	578	7,334	(4,239)
ICD 705 PREMIUM	LS			(9,269)
CYBERSECURITY OF FACILITY- RELATED CONTROL SYS	LS			(1,139)
SUPPORTING FACILITIES				9,917
SITE PREPARATION	LS			(3,465)
SITE IMPROVEMENTS	LS			(1,284)
UTILITIES - MECHANICAL	LS			(2,000)
UTILITIES - ELECTRICAL	LS			(640)
ROADS, SIDEWALKS, AND PARKING	LS			(2,154)
COMMUNICATIONS	LS			(247)
GENERATOR	KW	120	1,058	(127)
SUBTOTAL				73,814
CONTINGENCY (5%)				3,691
TOTAL CONTRACT COST				77,505
SUPERVISION, INSPECTION, AND OVERHEAD (6.5%)				5,038
DESIGN DURING CONSTRUCTION (2.5% OF SUBTOTAL)				1,845
A/E CONST. PHASE SERVICES (1.5% OF SUBTOTAL)				1,107
TOTAL REQUEST				85,495
TOTAL REQUEST (ROUNDED)				85,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON- ADD)				(13,764)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct an Integrated Training Center at F.E. Warren Air Force Base to support Ground Based Strategic Deterrent training by consolidating wing-level training for Maintenance, Security Forces, Cyber Defense, and Operations into one facility. Construction shall consist of a two-story structure combined with a single-story high bay volume. The two-story structure contains the classrooms, administration space, Virtual Training, and the training spaces for Security Forces, Cyber Defense and Operations. The single-story volume contains the Maintenance Training functions that require high-bay spaces for vehicles, cranes, and other equipment required for the				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2023
3. INSTALLATION AND LOCATION FE WARREN AIR FORCE BASE FE WARREN AFB SITE #1		4. PROJECT TITLE: GBSD INTEGRATED TRAINING CENTER	
5 PROGRAM ELEMENT 11233F	6. CATEGORY CODE 171-625	7. PROJECT NUMBER GHLN241660	8. PROJECT COST 85,000
<p>training mission. The new Integrated Training Center for the Ground Based Strategic Deterrent program will be located east of Commissary Road and South of Artillery Road. The facility will consist of structural steel frame and columns on a concrete slab-on-grade foundation. Exterior cladding consists of brick with metal panel accents and a standing seam metal roof. The facility will include electrical/mechanical service and distribution components/systems, water and sewer, fire protection, lightning protection, security and communications systems. The second floor of the facility including Security Forces, Cyber Training, and Operations will require secure construction to be built to Intelligence Community Directive 705 Technical Specifications for Construction and Management of Sensitive Compartmented Information Facilities. Additional areas inside the Integrated Training Center will require additional security depending on the final determination for clearance levels based on the training curriculum. Communication connections will be needed from the Integrated Training Center to the new construction of the Maintenance Training Facility and Security Forces Tactical Trainer located on FE Warren Air Force Base. Project will include all supporting facilities such as site improvements, clearing, grubbing, grading, minor demolition, pavements, walkways, communications, and utilities necessary to provide a complete and useable facility. This project is authorized a generator, per Air Force Manual 32-1062. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1- 200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per United Facilities Criteria 4-010-01.</p> <p>Air Conditioning Load: 250 Tons</p>			
<p>11. REQUIREMENT: 3,782 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Ground Based Strategic Deterrent Integrated Training Center</p> <p>REQUIREMENT: The Integrated Training Center will consolidate wing-level training for Maintenance, Security Forces, Cyber Defense, and Operations into one facility for the Ground Based Strategic Deterrent program. A single training facility will reduce student transit between training venues and enhance collaboration and learning. The facility mission provides realistic scenarios using space that is equipped with the "smart parts" for all training functions. The Minuteman III Weapon System will continue to maintain its mission capability throughout the Ground Based Strategic Deterrent deployment cycle (phased approach). This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: There is not a Ground Based Strategic Deterrent Integrated Training Center currently at F.E. Warren Air Force Base. The Minuteman III weapon system training center is currently housed at Building 485 at F.E. Warren Air Force Base. The Ground Based Strategic Deterrent weapon system will be different than the Minuteman III weapon system and will require Ground Based Strategic Deterrent specific training devices/capabilities (operations, maintenance, and security forces) that cannot be provided by the current Minuteman III training devices/capabilities. The current Minuteman III program facility does not have the ability or capacity to accommodate these new trainers,</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2023
3. INSTALLATION AND LOCATION FE WARREN AIR FORCE BASE FE WARREN AFB SITE #1		4. PROJECT TITLE: GBSD INTEGRATED TRAINING CENTER	
5 PROGRAM ELEMENT 11233F	6. CATEGORY CODE 171-625	7. PROJECT NUMBER GHLN241660	8. PROJECT COST 85,000
<p>without degradation to one or both programs.</p> <p>IMPACT IF NOT PROVIDED: The Integrated Training Center is needed to properly train for the deployment of the Ground Based Strategic Deterrent program at F.E. Warren Air Force Base. The training facility must be operationally complete for Initial Nuclear Surety Inspections and may not impact the Minuteman III program that must continue its mission capability throughout the Ground Based Strategic Deterrent deployment cycle. The current Minuteman III facility does not have the ability or capacity to accommodate the new Ground Based Strategic Deterrent trainers.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no AF standard facility design for this project and there is no applicable standard design from Air Force Civil Engineer Center. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New Construction is the only viable option to meet this requirement. A formal economic analysis waiver has been approved. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of the Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. The Integrated Training Center is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>90th Missile Wing Base Civil Engineer: 307-481-3600</p> <p>TECHNICAL TRAINING LAB/SHOP: 3,782 = 40,709 Square Feet;</p> <p>HIGH-BAY TECHNICAL TRAINING: 2,324 SM = 25,015 Square Feet;</p> <p>TECHNICAL TRAINING SUPPORT: 1,233 = 13,272 Square Feet;</p> <p>TECHNICAL TRAINING CLASSROOM: 578 = 6,222 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use of other components.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. Date MARCH 2023
3. INSTALLATION AND LOCATION FE WARREN AIR FORCE BASE FE WARREN AFB SITE #1		4. PROJECT TITLE: GBSD INTEGRATED TRAINING CENTER	
5 PROGRAM ELEMENT 11233F	6. CATEGORY CODE 171-625	7. PROJECT NUMBER GHLN241660	8. PROJECT COST 85,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design		Design-Bid-Build	
(b) Date Design Started		05-JAN-21	YES
(c) Parametric Cost Estimate used to develop costs		100%	
(d) Percent Complete as of 01 JAN 2023			
(e) Date 35% Designed		31-OCT-21	
(f) Date Design Completed		30-DEC-22	
(g) Energy Study/Life-Cycle Analysis was performed		YES	
(2) Basis			
(a) Standard or Definitive Design		NO	
(b) Where Design was Most Recently Used		N/A	
(3) Total Cost = (c) = (a) + (b) or (d) + (e)			(\$000)
(a) Production of Plans and Specifications		5,100	
(b) All other Design Costs		2,550	
(c) Total		7,650	
(d) Contract		6,375	
(e) In-House		1,275	
(4) Construction Contract Award		24-APR	
(5) Construction Start		24-MAY	
(6) Construction Complete		26-DEC	
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
EQUIPMENT NOMENCLATURE	PROCURING	APPROPRIATED	COST
	APPROPRIATION	OR REQUESTED	(\$000)
Communications & IT Equipment	3080	2025	270
Furniture, Fixtures, and	3080	2025	1,592
Equipment Audio-Visual Equipment	3400	2025	163
Electronic Security Systems	3080	2024	1,239
Weapon System Equipment	3600	2025	10,000
ICD 705 Construction Oversight	3080	2024	500

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023		
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING				4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX, INC 2			
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991		8. PROJECT COST (\$000) AUTH: 0 APPR: 28,000		
9. COST ESTIMATE							
ITEM				U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES							32,145
MISSILE TRANSFER BUILDING (141-915)				SM	2,193	7,415	(16,261)
VEHICLE OPERATIONS HEATED PARKING (214-426)				SM	2,490	5,823	(14,499)
PAD, DANGEROUS CARGO, LOAD/UNLOAD (116-662)				SM	554	284	(157)
ICD 705 PREMIUM				LS			(459)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS				LS			(769)
SUPPORTING FACILITIES							9,892
UTILITIES				LS			(2,911)
SITE IMPROVEMENTS				LS			(1,355)
ROADWAYS, WALKWAYS, AND PARKING				LS			(1,936)
COMMUNICATIONS				LS			(2,074)
BACKUP GENERATOR				KW	800	825	(660)
PRIVATIZED UTILITIES FEE				LS			(956)
SUBTOTAL							42,037
CONTINGENCY (5%)							2,102
TOTAL CONTRACT COST							44,139
SIOH (5.7%)							2,516
COMMISSIONING (1.5% OF SUBTOTAL)							631
TOTAL REQUEST							47,286
TOTAL REQUEST (ROUNDED)							47,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(2,100)
10. DESCRIPTION OF PROPOSED WORK: The Missile Handling Complex will be designed as a single story, Missile Handling Facility, a single-story Transporter Storage and Missile Handling Administrative Combined Facility, and an expansion to two existing dangerous cargo pads. Site work improvements include clearing, grubbing, grading, demolition (as applicable), paving walkways, and storm drainage. The Missile Handling Complex is designed as two large structures, one housing the Missile Handling Facility and a second combining the Transporter Storage Facility and Missile Handling Administrative Facility. The Missile Handling Facility will be constructed of a steel structure containing three missile bays and a staging area connected to a steel structure transporter/trailer storage component with low rise building support functions attached. The missile bays and staging area are situated on an elevated concrete platform for each bay. Each missile bay will require steel rails and space for a winching system for loading/unloading of boosters from transporter trailers. Columns between bays will be incorporated to gain structural efficiency assuming clearance is maintained for transporters. The Transporter Storage Facility will be designed to be an open steel structure with six transporter storage bays allowing pull through capability. Equipment storage,							

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX, INC 2		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) AUTH: 0 APPR: 28,000	
<p>restroom, and facility support spaces are constructed of low-rise steel structures directly attached to the Transporter storage bays. The Missile Handling Administrative Facility will be a one-story steel structure with private offices, open work areas, conferences rooms, locker rooms, break rooms, storage/supply rooms, and a Collateral Secret building with compliant intrusion detection and access control systems built to applicable ICD-705 criteria. The exterior plan for all buildings is sloped standing seam metal roof with polycarbonate clerestory for the high bays and insulated metal wall panels with a natural stone wainscot base. The project will consist of a steel core and concrete foundations, electrical/mechanical service and distribution components/systems, water and sewer, fire protection, lightning protection, vehicle exhaust systems, compressed air system, security systems, and communications systems. The expansion of the cargo pads and lightning protection systems will support the increased size of the special purpose vehicles utilized within the Complex area. The complex will be located within a secure boundary. This project is authorized a generator, per AFI 32-1062. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with DoD antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>AIR CONDITIONING: 50 Tons</p>				
<p>11. REQUIREMENT: 2,193 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct GBSD Missile Handling Complex</p> <p>REQUIREMENT: AFGSC has selected F.E. Warren AFB to be the first missile base to deploy the first Ground Based Strategic Deterrent Intercontinental Ballistic Missiles while all of its Minuteman III missiles are removed. The deployment will utilize a different handling method and security level than the Minuteman system, which require the construction of the Missile Handling Complex to accomplish the mission. The Missile Handling Facility is to facilitate the loading and unloading of the Ground Based Strategic Deterrent sized boosters onto elevated rails and must be built and outfitted with new weapon system components prior to supporting the deployment activities without interruptions to the Minuteman III demilitarization schedule. The Ground Based Strategic Deterrent missile handling and storage complex must be outfitted with weapon system components prior to supporting the Ground Based Strategic Deterrent deployment activities scheduled to start in FY28 without interruptions to the Minuteman III demilitarization schedule. The transition will involve additional special transport vehicles and personnel because current Minuteman III facilities are not equipped to perform this task. The purpose of the Transporter Storage Facility is to allow special purpose vehicles to be mission ready and protected from the harsh climate of the northern tier base. The new missiles will arrive by special contractor vehicles, await transfer to transport erectors which will install each Intercontinental Ballistic Missile booster into a modernized Launch Facility located in the missile complex. Simultaneously, the Minuteman boosters will be removed by transport erectors to allow launch facility modernizations at a rate of nearly one a week.</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX, INC 2		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) AUTH: 0 APPR: 28,000	
<p>The Missile Handling Administrative Facility will support personnel and house field supplies and equipment otherwise taking valuable space in the other facilities and vehicles in the Complex area. The administrative facility will include a Collateral Secret area with compliant intrusion detection and access control systems built to applicable ICD-705 criteria. The expansion of the cargo pads described in this project are essential for the increased vehicle operation space required for deployment of the Ground Based Strategic Deterrent weapon systems. The Missile Handling Administrative Facility is required to contain a collateral work area built with intrusion detection and access control systems to applicable ICD-705 criteria. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION & IMPACT: The 2019 Missile Transfer facility will be 100% utilized for demilitarization of existing Minuteman III missiles. The current Minuteman III administrative facility will remain at 100% capacity throughout the deployment. Additionally, the existing Minuteman III Missile Transfer Facility does not qualify as an ICD-705 Facility.</p> <p>IMPACT IF NOT PROVIDED: The Minuteman III occupies the 2019 Missile Transfer Facility 4330-A with a vehicle-to-vehicle transfer method. Boosters are not removed from vehicles while awaiting transfer to specialized vehicles for deposition. The three proposed facilities, along with the dangerous cargo pads and all associated lightning protection systems, deliver a synergistic capability, vital to the transition, deployment, and long-term sustainment of the next generation Intercontinental Ballistic Missile weapon system. Each of these individual capabilities is dependent on the other to maximize the safe and timely handling, storage, and processing of Ground Based Strategic Deterrent for emplacement, and operational deployment. Failure to modernize and construct any one of these new facilities, cargo pads, or lightning protection systems within the Missile Handling Complex, will seriously degrade, or even prevent, the successful deployment of Ground Based Strategic Deterrent to meet Initial Nuclear Surety Inspection and Initial Operational Capability.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facility Standards, but will not employ a standard facility design because there is no AF standard facility design for this project and there is no applicable standard design from Air Force Civil Engineer Center. All reasonable alternatives were considered during the development of this project to include [status quo, add/alter, and new construction]. New Construction is the only viable option to meet this requirement. A formal economic analysis is in progress and will be completed before approval of the President's Budget. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems,</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX, INC 2		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) AUTH: 0 APPR: 28,000	
<p>renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of the Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within the 100-year flood plain. The Complex is sited in accordance with the Installation Development Plan is within a compatible land use area.</p> <p>90th Missile Wing Base Civil Engineer: (307) 481-3600</p> <p>MISSILE TRANSFER BUILDING: 2,193 SM = 23,605 Square Feet;</p> <p>VEHICLE OPERATIONS HEATED PARKING: 2,490 SM = 26,802 Square Feet;</p> <p>PAD, DANGEROUS CARGO, LOAD/UNLOAD: 554 SM = 5,963 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use of other components.</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX, INC 2		
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) AUTH: 0 APPR: 28,000	
12. SUPPLEMENTAL DATA:				
13. Estimated Design Data:				
(1) Status				
(a) Type of Design			DESIGN-BID-BUILD	
(b) Date Design Started			04-FEB-21	
(c) Parametric Cost Estimates Used to Develop Costs			YES	
(d) Percent Complete as of 01-JAN-2023			100%	
(e) Date Design 35% Complete			15-APR-21	
(f) Date Design 100% Complete			11-AUG-22	
(g) Energy Study and Life Cycle analysis was performed			YES	
(2) Basis				
(a) Standard or Definitive Design Used			NO	
(b) Where Design Was Most Recently Used			N/A	
(3) Total Cost (c) = (a) + (b) or (d) + (e)			(\$000)	
(a) Production of Plans and Specifications			2,820	
(b) All Other Design Costs			1,410	
(c) Total			4,230	
(d) Contract			3,525	
(e) In-House			705	
(4) Construction Contract Award			23-APR	
(5) Construction Start			23-MAY	
(6) Construction Completion			25-JUL	
b. Equipment associated with this project provided from other appropriations:				
			FISCAL YEAR	
			APPROPRIATED COST	
EQUIPMENT NOMENCLATURE	PROCURING APPRO	OR REQUESTED	(\$000)	
FURNISHINGS, FIXTURES, & EQUIPMENT	3400	2026	150	
CONSTRUCTION SURVEILLANCE TECH	3080	2023	250	
COMMUNICATIONS EQUIPMENT	3400	2023	150	
IT EQUIPMENT	3080	2026	250	
WEAPONS SYSTEM INSTALLATION	3020	2026	1,000	
SECURITY EQUIPMENT	3080	2023	300	

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023																
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING			4. PROJECT TITLE GBSD MISSILE HANDLING COMPLEX, INC 2																	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-915	7. PROJECT NUMBER GHLN231991	8. PROJECT COST (\$000) AUTH: 0 APPR: 28,000																	
c. Authorization and Appropriation Summary:																				
<table border="1"> <thead> <tr> <th></th> <th>Authorization (\$000)</th> <th>Auth of Approp (\$000)</th> <th>Appropriation (\$000)</th> </tr> </thead> <tbody> <tr> <td>FY2023 Enacted</td> <td>47,000</td> <td>47,000</td> <td>47,000</td> </tr> <tr> <td>FY2024 Budget Request</td> <td>-----</td> <td>28,000</td> <td>28,000</td> </tr> <tr> <td>Total</td> <td>47,000</td> <td></td> <td>75,000</td> </tr> </tbody> </table>						Authorization (\$000)	Auth of Approp (\$000)	Appropriation (\$000)	FY2023 Enacted	47,000	47,000	47,000	FY2024 Budget Request	-----	28,000	28,000	Total	47,000		75,000
	Authorization (\$000)	Auth of Approp (\$000)	Appropriation (\$000)																	
FY2023 Enacted	47,000	47,000	47,000																	
FY2024 Budget Request	-----	28,000	28,000																	
Total	47,000		75,000																	
A 10 USC 2853 notification will be submitted to support the increase in authorization.																				

1. COMPONENT AIR FORCE		FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION RAAF BASE DARWIN, AUSTRALIA					4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 1.43			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		0	0	0	0	0	0	0	0	0	0
b. END FY		0	0	0	0	0	0	0	0	0	0
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										0	
b. INVENTORY TOTAL AS OF 30-SEP-22										0.00	
c. AUTHORIZATION NOT YET IN INVENTORY										7,400.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										0.00	
h. GRAND TOTAL										7,400.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY						b. COST (\$000)		c. DESIGN STATUS			
(1) CODE	(2) PROJECT TITLE							(3) SCOPE		(1) START	(2) COMPLETE
141-753	PDI: SQUADRON OPERATIONS FACILITY		648 SM		26,000	10/19	6/20				
9. FUTURE PROJECTS											
10. MISSION OR MAJOR FUNCTIONS											
The USAF proposes to improve an existing airport by expanding the parking apron, adding bulk fuel storage tanks, and building an aircraft maintenance support facility to increase mil-to-mil cooperation between US-AUS via combined military exercise and limited USAF presence.											
Note 1: No personnel will be permanently assigned to this location.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE DARWIN, AUSTRALIA		4. PROJECT TITLE PDI: SQUADRON OPERATIONS FACILITY			
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PAF160700	8. PROJECT COST (\$000) AUTH:26,000 APPR: 26,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					3,819
SQUADRON OPERATIONS		SM	648	5,508	(3,569)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYSTEMS		LS			(250)
SUPPORTING FACILITIES					2,690
SITE IMPROVEMENTS		LS			(1,290)
UTILITIES		LS			(669)
PAVEMENTS COMMUNICATIONS		LS			(377)
ENVIRONMENTAL		LS			(74)
REMEDICATION FACILITY		LS			(100)
COMMISSIONING		LS			(180)
SUBTOTAL					6,509
CONTINGENCY (5.0%)					325
TOTAL CONTRACT COST					6,834
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)					424
POST CONSTRUCTION AWARD SERVICES (PCAS)					137
TOTAL REQUEST					7,395
TOTAL REQUEST (ROUNDED)					7,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(350)
<p>10. Description of Proposed Construction: Construct a squadron operations facility with reinforced concrete slab on grade and steel rigid frames with metal purlins and girts to frame the exterior roof and walls. The facility should be compatible with applicable Department of Defense, Air Force, and base design standards, and include all supporting facilities necessary for a complete and usable facility. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facility design shall comply with Australian Building Code requirements and the Unified Facilities Criteria 1-202-01, Host Nation Facilities in Support of Military Operations, which is required to ensure Host Nation acceptance and support in accordance with Article 14 of the 2014 United States–Australian Force Posture Agreement. In accordance with Unified Facilities Code 1-202-01 para 4.1, Unified Facilities Code 1-200-01 does not apply to this project. The Building Code of Australia and Manual of Fire Protection will be applied for fire protection requirements to ensure local fire services can utilize fire protection infrastructure. Environmental testing and facility commissioning by the Australian Air Force is required. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings.</p> <p>Air Conditioning: 17 Tons</p>					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE DARWIN, AUSTRALIA			4. PROJECT TITLE PDI: SQUADRON OPERATIONS FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PAF160700	8. PROJECT COST (\$000) AUTH:26,000 APPR: 26,000	
<p>11. Requirement: 648 SM Adequate: 0 SM Substandard: 0 SM</p> <p>PROJECT: Squadron Operations Facility</p> <p>REQUIREMENT: Provide the United States Air Force with an adequately sized and configured expeditionary squadron operations facility to support Enhanced Air Cooperation missions at Royal Australian Air Force Base Darwin. Multiple exercises will occur during the Northern Territory dry season (May-October). Space is required for aircrew flight equipment maintenance and care, mission planning, intelligence, crew briefings, and crew readiness to support eight KC-10 aircraft. The Air Force Air Mobility Command Squadron Operations Facilities Design Guide was used in the planning for this expeditionary facility. This is an Indo-Pacific Command supported service requirement.</p> <p>CURRENT SITUATION: Royal Australian Air Force Base Darwin is designed to accommodate fighter aircraft and limited cargo aircraft. There are no available facilities at Royal Australian Air Force Base Darwin that can be used by United States Air Force squadrons during bilateral training exercises. Existing squadron operations facilities at Royal Australian Air Force Base Darwin have been considered but are fully utilized and unavailable.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, the United States Air Force will not have operations space at Royal Australian Air Force Base Darwin to plan and execute missions. Lack of this facility would significantly reduce readiness and result in decreased operational capability. The inability to provide tanker capability decreases power projection and global reach of United States-Australia bilateral exercises and theater security operations in the Asia-Pacific region.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if available), but will not employ a standard facility design because there is no standard design from the Air Force Civil Engineer Center nor the Naval Facilities Engineering Command. The expeditionary nature of the mission to support United States personnel during exercises, contingencies, or other brief mission durations at RAAF Darwin enables efficiencies and smaller project scope compared to a standard squadron operations facility. A Waiver to an Economic Analysis has been approved for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements is partially compliant or not applicable. The cost of Supporting Facilities exceeds 25% of the total project cost as the facility is sited in a remote location relative to existing utilities due to Quantity-Distance explosive criteria requirements. While this project does not fall within or partly within the 100-year flood plain, the site requires extensive preparation to manage storm water during the wet season. Facility</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE DARWIN, AUSTRALIA		4. PROJECT TITLE PDI: SQUADRON OPERATIONS FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PAF160700	8. PROJECT COST (\$000) AUTH:26,000 APPR: 26,000
<p>is sited in accordance with the Installation Development Plan and is within a compatible land use area. Cost estimate is inline with the Department of Defense Pricing Guide (Unified Facilities Criteria 3-701-01).</p> <p>BASE CIVIL ENGINEER EQUIVALENT: 808-449-3810 (in Hawaii)</p> <p>Squadron Operations Facility: 648 square meters = 6,975 square feet</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE DARWIN, AUSTRALIA		4. PROJECT TITLE PDI:SQUADRON OPERATIONS FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PAF160700	8. PROJECT COST (\$000) AUTH:26,000 APPR: 26,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	01-OCT-19		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	100 %		
(e) Date 35% Designed	15-JAN-20		
(f) Date Design Complete	15-JUN-20		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design -	NO		
(b) Where Design Was Most Recently Used -	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)			
(a) Production of Plans and Specifications	438		
(b) All Other Design Costs	219		
(c) Total	657		
(d) Contract	547		
(e) In-house	110		
(4) Construction Contract Award	22-FEB		
(5) Construction Start	22-APR		
(6) Construction Completion	23-JUN		
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE	3080	Future Request	350
c. Title, Authorization, and Appropriation Summary:			
FY24 Budget Request is to fund a Cost to Complete for this prior authorized and appropriated project			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2022 Enacted	7,400	7,400	7,400
FY2024 Budget Request	0	26,000	26,000
Total	7,400		33,400

1. COMPONENT AIR FORCE		FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION RAAF BASE TINDAL, AUSTRALIA					4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 1.43			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		0	0	0	0	0	0	0	0	0	0
b. END FY		0	0	0	0	0	0	0	0	0	0
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										0	
b. INVENTORY TOTAL AS OF 30-SEP-22										0.00	
c. AUTHORIZATION NOT YET IN INVENTORY										14,400.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										93,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										0.00	
h. GRAND TOTAL										107,400.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY						b. COST (\$000)		c. DESIGN STATUS			
(1) CODE	(2) PROJECT TITLE							(3) SCOPE		(1) START	(2) COMPLETE
211-154	PDI: AIRCRAFT MAINTENANCE SUPPORT FACILITY		226 SM		17,500	07/20	03/21				
113-321	PDI: BOMBER APRON		57,596 SM		93,000	08/20	02/23				
141-753	PDI: SQUADRON OPERATIONS FACILITY		648 SM		20,000	07/20	04/21				
9. FUTURE PROJECTS											
10. MISSION OR MAJOR FUNCTIONS Royal Australian Air Force Base Tindal (RAAF Tindal) is home to No. 75 Squadron and a number of non-flying units and hosts the Katherine Tindal Civilian Airport. Additionally, RAAF Tindal is a force multiplier, encompassing key bilateral training operations in the Asia-Pacific Rim.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE TINDAL, AUSTRALIA			4. PROJECT TITLE PDI: AIRCRAFT MAINTENANCE SUPPORT FACILITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-154	7. PROJECT NUMBER PAF180400		8. PROJECT COST (\$000) AUTH: 17,500 APPR: 17,500	
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					3,664
AIRCRAFT MAINTENANCE SHOP (211-154)		SM	226	7,796	(1,762)
AIRCRAFT SUPPORT EQUIPMENT SHOP (218-712)		SM	464	3,561	(1,652)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYSTEMS		LS			(250)
SUPPORTING FACILITIES					1,756
SITE IMPROVEMENTS		LS			(329)
UTILITIES		LS			(371)
PAVEMENTS		LS			(705)
COMMUNICATIONS		LS			(71)
ENVIRONMENTAL REMEDIATION		LS			(100)
FACILITY COMMISSIONING		LS			(180)
SUBTOTAL					5,420
CONTINGENCY (5.0%)					271
TOTAL CONTRACT COST					5,691
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)					353
POST CONSTRUCTION AWARD SERVICES					114
TOTAL REQUEST					6,158
TOTAL REQUEST (ROUNDED)					6,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(120)
<p>10. Description of Proposed Construction: Construct aircraft maintenance support and storage facility using conventional design and construction methods to accommodate the United States Air Force bomber mission at Royal Australian Air Force Base Tindal. The facilities should be compatible with applicable Department of Defense, Air Force, and base design standards, and include all supporting facilities necessary for a complete and usable facility. Local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facility design shall comply with Australian Building Code requirements and the Department of Defense Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. The Building Code of Australia and Manual of Fire Protection will be applied for fire protection requirements to ensure local fire services can use fire protection infrastructure. Environmental testing and facility commissioning by the Australian Air Force is required. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings.</p> <p>The Maintenance Storage facility includes a high bay open storage area and administrative offices and support space for maintainers. Work includes, but is not limited to construction of a slab-on-grade concrete foundation, pre-engineered steel frame, girt, insulation, and metal panels, and metal roof. The high-bay storage space</p>					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE TINDAL, AUSTRALIA			4. PROJECT TITLE PDI: AIRCRAFT MAINTENANCE SUPPORT FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-154	7. PROJECT NUMBER PAF180400	8. PROJECT COST (\$000) AUTH: 17,500 APPR: 17,500	
<p>will have natural ventilation and will not be conditioned. The building will include electrical outlets; lighting fixtures; panel boards; plumbing with energy and water efficient fixtures; communication systems; mechanical ventilation system in the administrative areas; and all necessary utility connections to base infrastructure. Supporting facilities include a concrete pad to maneuver and stage aircraft ground equipment, asphalt access drive for emergency vehicles, and storm water drainage system required.</p> <p>Air Conditioning: 4 Tons</p>				
<p>11. Requirement: 690 SM Adequate: 0 SM Substandard: 0 SM</p> <p>PROJECT: Aircraft Maintenance Support Facility</p> <p>REQUIREMENT: This project provides an adequately sized and configured maintenance and storage facility required to support flightline maintenance operations and storage for aircraft support equipment for up to six B-52/bomber aircraft. The building is required to store pre-deployed aerospace-ground equipment during inactive periods and to serve as a hub for flightline aircraft maintenance during exercises. Deployed aircraft maintainers will use the building to store and maintain their tool kits and Mission Readiness Spares Packages. The facility will provide weather protection for maintenance personnel, equipment, and aircraft spares. This is an Indo-Pacific Command supported service requirement.</p> <p>CURRENT SITUATION: The base at Tindal is designed to accommodate fighter aircraft and limited cargo aircraft. Currently, there are no available facilities at the base that can be used to support the maintenance and storage requirements of United States Air Force deployed bomber aircraft during bilateral training exercises. Existing warehouse and maintenance facilities near the flightline are used by Australian base personnel and unavailable for non-Australia forces.</p> <p>IMPACT IF NOT PROVIDED: The base at Tindal does not have the required aircraft ground equipment maintenance and storage capacity to operate and sustain bomber operations. If this project is not provided, the equipment needed by deployed aircraft will have to be deployed to Tindal, incurring significant time and funding costs due to strict Australian quarantine requirements. In addition, the deployed aircraft maintenance personnel will not have a location from which to base their operations and set up their tool kits and Mission Readiness Spare Packages. Without the maintenance facility, equipment, aircraft spares, and personnel will lack the protection needed from potentially severe weather. If the facility is not provided, there will be a reduction in readiness and decreased operational capability to meet the bilateral training exercise mission requirements. The inability to provide bomber capability drastically decreases power projection and global reach capabilities to support United States-Australia bilateral theater security operations and exercises in the Asia-Pacific region.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no standard design from the Air Force Civil Engineer Center and the expeditionary</p>				

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<p>nature of requirements for this facility do not require a standard Aircraft Maintenance Support Facility. Since the project is located in a foreign military installation, constructing a Maintenance Support Facility for the United States Air Force use is the only viable option to meet operational requirements, therefore a Waiver to an Economic Analysis has been approved for this project. The cost estimate for this project is in line with Department of Defense Pricing Guide parameters modified to account for the higher area cost factor at Tindal, Northern Territory, Australia. The cost of Supporting Facilities exceeds 25% of the cost of Primary Facilities due to the large concrete pad for maneuvering aircraft ground equipment, and the distance of this facility from existing facilities requiring longer utility runs and road access. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project is part of a bilateral agreement and not eligible for host nation funding.</p> <p>BASE CIVIL ENGINEER EQUIVALENT: 808-449-3810.</p> <p>AIRCRAFT MAINTENANCE SHOP (211-154): 226 SM = 2,433 Square Feet AIRCRAFT SUPPORT EQUIPMENT SHOP (218-712): 464 SM = 4,994 Square Feet</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

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3. INSTALLATION AND LOCATION RAAF BASE TINDAL AUSTRALIA		4. PROJECT TITLE: PDI: BOMBER APRON		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER PAF180500	8. PROJECT COST (\$000) 93,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				60,700
APRON (113-321)	SM	57,596	712	(41,008)
TAXIWAY (112-211)	SM	4,731	678	(3,208)
SHOULDER, PAVED (116-642)	SM	22,221	137	(3,044)
HYDRANT FUELING SYSTEM (121-122)	OL	6	2,161,666	(12,970)
JET BLAST DEFLECTOR (116-945)	EA	298	738	(220)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				21,022
SITE IMPROVEMENTS	LS			(8,438)
UTILITIES	LS			(5,484)
PAVEMENTS	LS			(104)
COMMUNICATIONS	LS			(150)
STORM DRAINAGE	LS			(5,921)
ENVIRONMENTAL REMEDIATION	LS			(150)
ARCHAEOLOGICAL MONITORING	LS			(75)
COMMISSIONING	LS			(700)
SUBTOTAL				81,722
CONTINGENCY (5.0%)				4,086
TOTAL CONTRACT COST				85,808
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				6,264
POST CONSTRUCTION AWARD SERVICES (PCAS)				1,284
TOTAL REQUEST				93,356
TOTAL REQUEST (ROUNDED)				93,000
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
<p>Construct an aircraft apron using conventional design and construction methods to accommodate the United States Air Force mission at the Royal Australian Air Force (RAAF) Base Tindal. The apron should be compatible with applicable Department of Defense, Air Force, and base design standards and include taxiway connection, shoulder, fuel hydrant distribution system, removal of existing Australian facilities as needed, and all necessary supporting facilities for a complete and usable project. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with Department of Defense Unified Facilities Criteria 3-260-01, Airfield and</p>				

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<p>Heliport Planning and Design, using the B-52 as the design aircraft. Since the airfield is operated by the Royal Australian Air Force, use of Australia's Civil Aviation Authority Manual of Standards should be consulted for runway stand-off, setbacks and parking spot clearances as required.</p> <p>Facilities will be designed and constructed in accordance with the Unified Facilities Criteria 1-202-01, Host Nation Facilities in Support of Military Operations. The Building Code of Australia and Manual of Fire Protection will be applied for fire protection requirements to ensure local fire services can utilize the infrastructure. This project will comply with DoD anti-terrorism / force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>			
<p>11. REQUIREMENT: 57,596 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct new aircraft parking apron.</p> <p>REQUIREMENT: This project provides an aircraft parking apron to accommodate six B-52s with supporting shoulders and taxiway at Tindal. This project will construct a new parking apron off of Taxiway Alpha. The apron will be licensed for explosive ordnance operations and may include revetments or other items needed for full operational needs. In addition, jet blast deflectors, site improvements, utilities, and removal of existing pavements is required. Tindal is one of Australia's most important Defense sites. Every year, Tindal hosts major exercises featuring aircraft and personnel from around the country and on a global scale including Pitch Black, Diamond Storm, Arnhem Thunder and Talisman Sabre. RAAF Base Tindal's ideal dry-season weather and proximity to Delamere Air Weapons Range makes it a superb location to conduct high-end training sorties for the RAAF and coalition partners.</p> <p>CURRENT SITUATION: There is no aircraft parking apron that can accommodate six United States Air Force bomber aircraft. The current Air Movement Area apron is used for transient Australian cargo aircraft and does not have the capacity to support the United States Air Force's requirement. Headquarters Royal Australian Air Force has indicated that the existing apron cannot be used for bomber aircraft parking. The apron is planned off of Taxiway Alpha's extension.</p>			

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<p>IMPACT IF NOT PROVIDED: Tindal does not have the required apron space to park six B-52 aircraft and is unable to support Enhanced Air Cooperation training events. Without this project, Tindal is unable to support deployed aircraft attending bilateral exercises in Australia. The inability to provide bomber capability drastically decreases power projection and global reach capabilities in the Asia-Pacific region.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Since the project is located in a foreign military installation, constructing a new bomber parking apron is the only viable option to meet operational requirements, therefore a waiver from the requirement to perform an Economic Analysis has been obtained. The cost estimate for this project is in line with Department of Defense Pricing Guide parameters modified to account for the higher area cost factor at Tindal, Northern Territory, Australia. Supporting Facilities costs exceed 25% of Primary Facilities cost due to excessive site improvements, utilities, and storm drainage requirements. This project does not fall within or partly within the 100-year flood plain.</p> <p>Base Civil Engineer Equivalent: 808-449-3810.</p> <p>Bomber Apron: 57,595 Square Meters (619,947 Square Feet).</p> <p>Taxiway: 4,731 Square Meters (50,924 Square Feet); Shoulder: 22,221 Square Meters (239,185 Square Feet).</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

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Project: PDI: Bomber Apron; RAAF Tindal, Australia

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands (\$000)

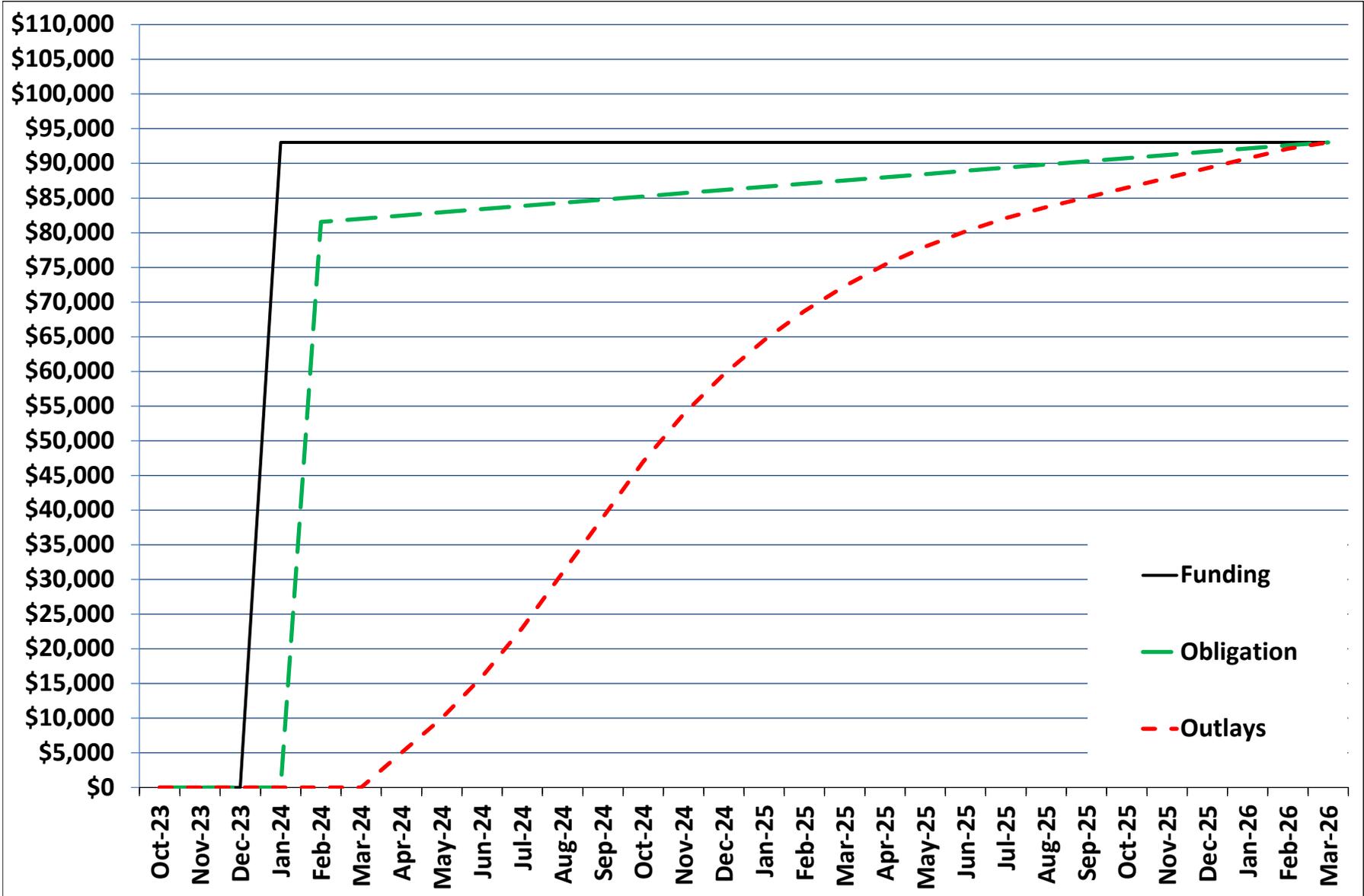
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Month	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-23	-	-	-	-	-	-
Nov-23	-	-	-	-	-	-
Dec-23	-	-	-	-	-	-
Jan-24	93,000	93,000	-	-	-	-
Feb-24	-	93,000	81,561	81,561	-	-
Mar-24	-	93,000	460	82,021	-	-
Apr-24	-	93,000	460	82,481	5,000	5,000
May-24	-	93,000	460	82,941	5,000	10,000
Jun-24	-	93,000	460	83,401	6,000	16,000
Jul-24	-	93,000	460	83,861	7,000	23,000
Aug-24	-	93,000	460	84,321	8,000	31,000
Sep-24	-	93,000	460	84,781	8,000	39,000
Oct-24	-	93,000	460	85,241	8,000	47,000
Nov-24	-	93,000	460	85,701	6,800	53,800
Dec-24	-	93,000	460	86,161	5,800	59,600
Jan-25	-	93,000	460	86,621	4,900	64,500
Feb-25	-	93,000	460	87,081	4,200	68,700
Mar-25	-	93,000	460	87,541	3,600	72,300
Apr-25	-	93,000	460	88,001	3,100	75,400
May-25	-	93,000	460	88,461	2,600	78,000
Jun-25	-	93,000	460	88,921	2,200	80,200
Jul-25	-	93,000	460	89,381	1,900	82,100
Aug-25	-	93,000	460	89,841	1,600	83,700
Sep-25	-	93,000	460	90,301	1,400	85,100
Oct-25	-	93,000	460	90,761	1,400	86,500
Nov-25	-	93,000	460	91,221	1,400	87,900
Dec-25	-	93,000	460	91,681	1,400	89,300
Jan-26	-	93,000	460	92,141	1,400	90,700
Feb-26	-	93,000	460	92,601	1,400	92,100
Mar-26	-	93,000	399	93,000	900	93,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2024.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in February 2024 and contract completion March 2026; duration 26 months.

PDI: Bomber Apron; RAAF Tindal, Australia



1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE TINDAL, AUSTRALIA			4. PROJECT TITLE PDI: SQUADRON OPERATIONS FACILITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PAF180700	8. PROJECT COST (\$000) AUTH: 20,000 APPR: 20,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					3,964
SQUADRON OPERATIONS		SM	648	5,732	(3,714)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYSTEMS		LS			(250)
SUPPORTING FACILITIES					3,237
SITE IMPROVEMENTS		LS			(1,467)
UTILITIES		LS			(481)
PAVEMENTS		LS			(320)
COMMUNICATIONS		LS			(689)
ENVIRONMENTAL REMEDIATION		LS			(100)
FACILITY COMMISSIONING		LS			(180)
SUBTOTAL					7,201
CONTINGENCY (5.0%)					360
TOTAL CONTRACT COST					7,561
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)					469
POST CONSTRUCTION AWARD SERVICES					151
TOTAL REQUEST					8,181
TOTAL REQUEST (ROUNDED)					8,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(350)
<p>10. Description of Proposed Construction: Construct an operations facility for B-52 expeditionary squadrons utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable Department of Defense, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facility design shall comply with Australian Building Code requirements and the Department of Defense Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. The Building Code of Australia and Manual of Fire Protection will be applied for fire protection requirements to ensure local fire services can use fire protection infrastructure. Environmental testing and facility commissioning by the Australian Air Force is required. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01, Department of Defense Minimum Anti-terrorism Standards for Buildings.</p> <p>Air Conditioning: 17 Tons</p>					
<p>11. Requirement: 648 SM Adequate: 0 SM Substandard: 0 SM</p> <p>PROJECT: Squadron Operations Facility</p> <p>REQUIREMENT: This project provides the United States Air Force with an adequately sized and configured squadron operations facility to support Enhanced Air Cooperation missions at Royal Australian Air Force Base Tindal. Multiple 15-day</p>					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE TINDAL, AUSTRALIA			4. PROJECT TITLE PDI: SQUADRON OPERATIONS FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PAF180700	8. PROJECT COST (\$000) AUTH: 20,000 APPR: 20,000	
<p>training events or exercises are planned during the Northern Territory's dry season (May-October). Space is required for aircrew flight equipment maintenance and care, mission planning, intelligence, briefing, and crew readiness to support six B-52s. The Air Force Squadron Operations Facilities Design Guide was used in the planning for this expeditionary facility. Work includes, but is not limited to construction of a slab-on-grade concrete foundation, pre-engineered steel frame, girt, insulation, and metal panels, and metal roof. The building will include electrical outlets; lighting fixtures; panel boards; plumbing with energy and water efficient fixtures; communication systems; mechanical ventilation system; and all necessary utility connections to base infrastructure. This is an Indo-Pacific Command supported service requirement.</p> <p>CURRENT SITUATION: Currently, there are no available facilities at Royal Australian Air Force Base Tindal that can be used by United States Air Force bomber squadrons to support deployed B-52 aircraft during bilateral training exercises. Existing squadron operations facilities at Tindal have been considered but are used by Australian Air Force personnel and are unavailable for non-Australia forces.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, the United States Air Force will not have adequate operations space at Tindal to plan and execute missions. Lack of this facility would significantly reduce readiness and result in decreased operational capability. The inability to provide bomber capability drastically decreases power projection and global reach capabilities to support United States-Australia bilateral theater security operations and exercises in the Asia-Pacific region.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no standard design from the Air Force Civil Engineer Center nor the Naval Facilities Engineering Command (NAVFAC). The design used for the RAAF Darwin squadron operations building will be site-adapted to suit the RAAF Tindal facility functions and mission requirements. Since the project is located on a foreign military installation, constructing a new United States Air Force operations facility is the only viable option to meet operational requirements, therefore a Waiver to an Economic Analysis has been approved for this project. The cost estimate for this project is in line with Department of Defense Pricing Guide parameters modified to account for the higher area cost factor at Tindal, Northern Territory, Australia. The cost of Supporting Facilities exceeds 25% of the total project cost as the facility is sited in a remote location relative to existing utilities due to explosive ordnance safety distance requirements. Additionally, the site requires extensive preparation to manage stormwater during the wet season. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements. This includes preparation of</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE TINDAL, AUSTRALIA		4. PROJECT TITLE PDI: SQUADRON OPERATIONS FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PAF180700	8. PROJECT COST (\$000) AUTH: 20,000 APPR: 20,000
<p>a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project is part of a bilateral agreement is not eligible for host nation funding.</p> <p>BASE CIVIL ENGINEER EQUIVALENT: 808-449-3810. Squadron Operations Facility (141-753): 648 SM = 6,975 Square Feet</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA	2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION ROYAL AUSTRALIAN AIR FORCE BASE TINDAL, AUSTRALIA		4. PROJECT TITLE PDI: SQUADRON OPERATIONS FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PAF180700	
8. PROJECT COST (\$000) AUTH: 20,000 APPR: 20,000			
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	10-JUL-20		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	100%		
(e) Date 35% Designed	20-NOV-20		
(f) Date Design Complete	15-APR-21		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design -	NO		
(b) Where Design Was Most Recently Used -	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)			
(a) Production of Plans and Specifications	486		
(b) All Other Design Costs	243		
(c) Total	729		
(d) Contract	607		
(e) In-house	122		
(4) Construction Contract Award 22-FEB			
(5) Construction Start 22-APR			
(6) Construction Completion 23-MAY			
b. Equipment associated with this project provided from other appropriation			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE	3080	Future Request	350
c. Title, Authorization, and Appropriation Summary:			
FY24 Budget Request is to fund a Cost to Complete for this prior authorized and appropriated project			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2022 Enacted	8,200	8,200	8,200
FY2024 Budget Request	0	20,000	20,000
Total	8,200		28,200

1. COMPONENT AIR FORCE			FY 2024 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20230301			
3. INSTALLATION AND LOCATION TINIAN INTERNATIONAL AIRPORT, NORTHERN MARIANA						4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 3.42			
6. PERSONNEL			(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22			0	0	0	0	0	0	0	0	0	0
b. END FY			0	0	0	0	0	0	0	0	0	0
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE											0	
b. INVENTORY TOTAL AS OF 30-SEP-22											0.00	
c. AUTHORIZATION NOT YET IN INVENTORY											347,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM											0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM											0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS											0.00	
g. REMAINING DEFICIENCY											70,000.00	
h. GRAND TOTAL											417,000.00	
8. PROJECTS REQUESTED IN THIS PROGRAM												
a. CATEGORY						b. COST (\$000)			c. DESIGN STATUS			
(1) CODE	(2) PROJECT TITLE					(3) SCOPE			(1) START			(2) COMPLETE
851-147	PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 3		69,920 SM			26,000			01/19 05/20			
411-135	PDI: FUEL TANKS W/PIPELN & HYDRANT, INC 3		220,000 BL			20,000			12/18 10/21			
113-321	PDI: PARKING APRON, INC 3		152,411 SM			32,000			01/19 05/20			
9. FUTURE PROJECTS N/A												
10. MISSION OR MAJOR FUNCTIONS The mission of the Pacific Air Force at Tinian is to protect and defend, in concert with other U.S. Government agencies, the territory of the United States, its people, and its interests. With allies and partners, commitment to enhancing stability in the Asia-Pacific region by promoting security cooperation, encouraging peaceful development, responding to contingencies, deterring aggression, and, when necessary, fighting to win.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A												

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 3		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 851-147	7. PROJECT NUMBER PAF189021	8. PROJECT COST (\$000) AUTH: 0 APPR: 26,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				
ROAD, SURFACED (851-147)	SM	69,920	136	14,083 (9,488)
FENCE BOUNDARY (872-245)	LM	3,865	368	(1,422)
PRIMARY DISTRIBUTION LINE UNDERGROUND (812-225)	LM	1,562	1,694	(2,646)
CYBERSECURITY OF FACILITY RELATED CONTROL SYS	LS			(250)
SUSTAINABILITY AND ENERGY MEASURES (2.0%)	LS			(276)
SUPPORTING FACILITIES				
SITE IMPROVEMENTS	LS			84,114 (59,948)
UTILITIES	LS			(3,566)
ENVIRONMENTAL REMEDIATION	LS			(300)
ARCHAEOLOGICAL MONITORING	LS			(300)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE	LS			(20,000)
SUBTOTAL				
CONTINGENCY (5.0%)				98,196 4,910
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				103,106 6,393
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
<p>10. Description of Proposed Construction: This project provides site development for Air Force access to Tinian International Airport, including a cleared and levelsite with paved road access, security fencing, extensive earthwork, drainage, electrical and water utility connections, demolition of World War II-era airfield pavements, repair/improvement of haul route, and all other requirements. Facilities must be able to withstand 190 mph winds for structural elements and will be designed to Seismic Zone 3 design criteria. This project will comply with Department of Defense anti-terrorism/force protection requirements per Unified Facilities Criteria 4-010-01, Department of Defense Minimum Anti-terrorism Standards for Buildings.</p> <p>Air Conditioning: 0 Tons</p>				
<p>11. Requirement: 69920 SM Adequate: 0 SM Substandard: 0 SM</p>				
<p>PROJECT: Airfield Development Phase 1</p>				
<p>REQUIREMENT: Construct facilities and infrastructure in the Commonwealth of the Northern Mariana Islands (CNMI) to support a combination of cargo, tanker, and similar aircraft and associated support personnel for divert operations, training exercises, humanitarian assistance, disaster relief,</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 3		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 851-147	7. PROJECT NUMBER PAF189021	8. PROJECT COST (\$000) AUTH: 0 APPR: 26,000	
<p>and operational support to Air Force missions. This project will provide a secure, final-graded/level surface complete with all required and necessary utilities and infrastructure in-place. In sodoing, this project will ensure the slope of the pavements, provided under another project, and surrounding areas comply with Federal Aviation Administration, Department of Defense/Unified Facilities Criteria, and Air Force requirements, including UFC 3-210-01 regarding Low Impact Development. Water and electrical requirements/connections sized for planned Air Force operations at this location will be built into this project. Repairs and possible improvements will be neededto local infrastructure (e.g., roads) used to receive construction materials and haul them to the airfield site. The purpose is to support and conduct current, emerging, and future USAF training activities, while ensuring the capability to meet mission requirements in the event that access to other western Pacific locations is limited or denied. The proposed action is needed because there is not an existing divert or contingency airfield on U.S. territory in the western Pacific that is designed and designated to provide strategic operational and exercise capabilities for U.S. forces when needed and humanitarian assistance anddisaster relief in times of natural or man-made disasters. All construction projects must comply with FAA regulations including Orders and Advisory Circulars applicable to commercial airports. In addition, this project will comply with CNMI Public Law 06-45 building codes.</p> <p>CURRENT SITUATIONS: A redundant airfield, with a required fuel depot and refuelingcapability/facilities for refueling aircraft that support multiple military activities/missions does not exist in the CNMI.</p> <p>IMPACT IF NOT PROVIDED: Without, the final grade leveling and comprehensive infrastructure (e.g., water, electrical, road systems, and secure perimeter fencing) installation resulting from this project, the follow-on bulk fuel storageand aircraft parking apron projects will not be executable. CNMI's strategic location is vital to Pacific Command/Pacific Air Forces emerging/future missions/activities and for divert tanker aircraft to effectively respond to natural disaster/humanitarian relief efforts in the area.</p> <p>ADDITIONAL: This design shall conform to criteria established in the Air Force Corporate Facilities Standards but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard from the Navy design agent. This project complies with the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A Waiver to an Economic Analysis has been approved for this project. The Air Force will work</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 851-147	7. PROJECT NUMBER PAF189021	8. PROJECT COST (\$000) AUTH: 0 APPR: 26,000
<p>with CNMI government and local authorities to obtain permissions for road and infrastructure improvements. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements is partially compliant or not applicable. Supporting Facilities costs exceed primary facility costs due to extensive excavation/in-fill requirements due to the topography of the undeveloped land, the distance from existing utilities, and potential presence of Munitions and Explosives of Concern from WWII. The supporting facilities cost exceeds 25% of the primary facilities cost due to the substantial amount of earthwork required to add roads, fencing, and utilities. This project does not fall within or partly within the 100-year flood plain.</p> <p>Base Civil Engineer: 808-449-3810</p> <p>Road: 69,920 SM = 752,613 SF;</p> <p>Fence: 3,865 LM = 12,680 LF;</p> <p>Electrical Distribution Line: 1,562 LM = 16,813 LF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023																												
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Type of Design</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td>25-JAN-19</td> </tr> <tr> <td>(c) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023</td> <td>100 %</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>15-MAR-19</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>21-MAY-20</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle cost analysis was/will be performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>6,540</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>3,270</td> </tr> <tr> <td>(c) Total</td> <td>9,810</td> </tr> <tr> <td>(d) Contract</td> <td>8,175</td> </tr> <tr> <td>(e) In-house</td> <td>1,635</td> </tr> </table> <p>(4) Construction Contract Award 21-NOV</p> <p>(5) Construction Start 22-JAN</p> <p>(6) Construction Completion 25-OCT</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	25-JAN-19	(c) Parametric Cost Estimates used to develop costs	YES	(d) Percent Complete as of 01 JAN 2023	100 %	(e) Date 35% Designed	15-MAR-19	(f) Date Design Complete	21-MAY-20	(g) Energy Study/Life-Cycle cost analysis was/will be performed	YES	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	6,540	(b) All Other Design Costs	3,270	(c) Total	9,810	(d) Contract	8,175	(e) In-house	1,635
(a) Type of Design	Design-Bid-Build																														
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1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: AIRFIELD DEVELOPMENT PHASE 1, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 851-147	7. PROJECT NUMBER PAF189021	8. PROJECT COST (\$000) AUTH: 0 APPR: 26,000
c. Title, Authorization, and Appropriations Summary:			
Tinian PDI: Airfield Development Phase 1, Inc 3			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2020 Enacted	109,000	10,000	25,000
FY2023 Enacted	-----	58,000	58,000
FY2024 Budget Request	-----	26,000	26,000
Total	109,000		109,000

Project: PDI: Airfield Development Phase 1, Inc 3; CNMI Tinian

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands (\$000)

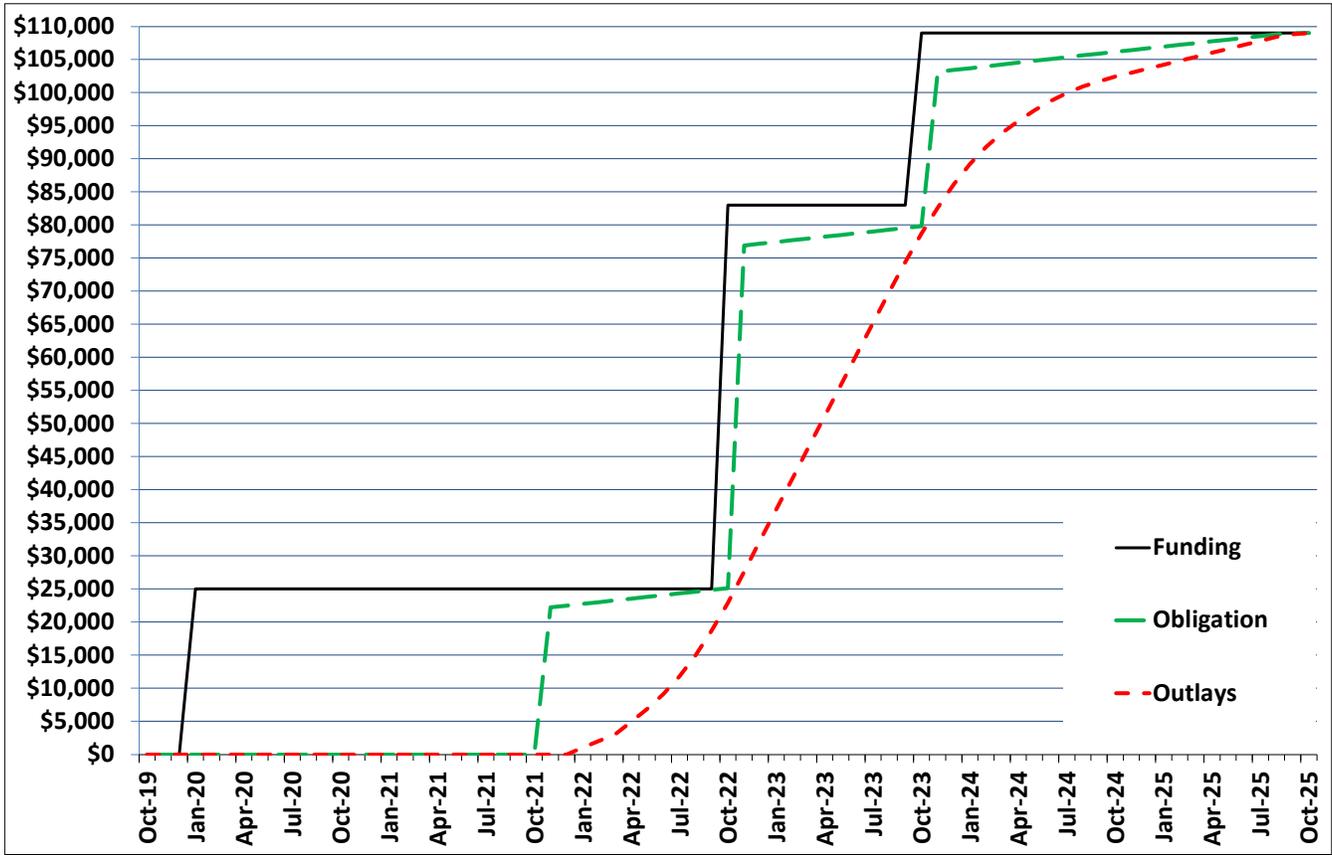
Chart Begin Oct-19	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-19	-	-	-	-	-	-
Nov-19	-	-	-	-	-	-
Dec-19	-	-	-	-	-	-
Jan-20	25,000	25,000	-	-	-	-
Feb-20	-	25,000	-	-	-	-
Mar-20	-	25,000	-	-	-	-
Apr-20	-	25,000	-	-	-	-
May-20	-	25,000	-	-	-	-
Jun-20	-	25,000	-	-	-	-
Jul-20	-	25,000	-	-	-	-
Aug-20	-	25,000	-	-	-	-
Sep-20	-	25,000	-	-	-	-
Oct-20	-	25,000	-	-	-	-
Nov-20	-	25,000	-	-	-	-
Dec-20	-	25,000	-	-	-	-
Jan-21	-	25,000	-	-	-	-
Feb-21	-	25,000	-	-	-	-
Mar-21	-	25,000	-	-	-	-
Apr-21	-	25,000	-	-	-	-
May-21	-	25,000	-	-	-	-
Jun-21	-	25,000	-	-	-	-
Jul-21	-	25,000	-	-	-	-
Aug-21	-	25,000	-	-	-	-
Sep-21	-	25,000	-	-	-	-
Oct-21	-	25,000	-	-	-	-
Nov-21	-	25,000	22,200	22,200	-	-
Dec-21	-	25,000	265	22,465	-	-
Jan-22	-	25,000	265	22,730	1,000	1,000
Feb-22	-	25,000	265	22,995	1,000	2,000
Mar-22	-	25,000	265	23,260	1,000	3,000
Apr-22	-	25,000	265	23,525	1,900	4,900
May-22	-	25,000	265	23,790	2,000	6,900
Jun-22	-	25,000	265	24,055	2,200	9,100
Jul-22	-	25,000	265	24,320	2,700	11,800
Aug-22	-	25,000	265	24,585	3,200	15,000
Sep-22	-	25,000	265	24,850	3,700	18,700
Oct-22	58,000	83,000	265	25,115	4,200	22,900
Nov-22	-	83,000	51,769	76,884	4,700	27,600
Dec-22	-	83,000	265	77,149	4,700	32,300
Jan-23	-	83,000	265	77,414	4,700	37,000
Feb-23	-	83,000	265	77,679	4,700	41,700
Mar-23	-	83,000	265	77,944	4,700	46,400
Apr-23	-	83,000	265	78,209	4,700	51,100
May-23	-	83,000	265	78,474	4,700	55,800
Jun-23	-	83,000	265	78,739	4,700	60,500
Jul-23	-	83,000	265	79,004	4,700	65,200
Aug-23	-	83,000	265	79,269	4,700	69,900
Sep-23	-	83,000	265	79,534	4,500	74,400
Oct-23	26,000	109,000	265	79,799	4,300	78,700
Nov-23	-	109,000	23,353	103,152	3,900	82,600
Dec-23	-	109,000	265	103,417	3,500	86,100
Jan-24	-	109,000	265	103,682	3,100	89,200
Feb-24	-	109,000	265	103,947	2,600	91,800
Mar-24	-	109,000	265	104,228	2,100	93,900
Apr-24	-	109,000	265	104,509	1,800	95,700
May-24	-	109,000	265	104,790	1,600	97,300
Jun-24	-	109,000	265	105,071	1,400	98,700
Jul-24	-	109,000	265	105,352	1,200	99,900
Aug-24	-	109,000	265	105,617	1,000	100,900
Sep-24	-	109,000	265	105,882	800	101,700
Oct-24	-	109,000	265	106,147	700	102,400
Nov-24	-	109,000	265	106,412	600	103,000
Dec-24	-	109,000	265	106,677	600	103,600
Jan-25	-	109,000	265	106,942	600	104,200
Feb-25	-	109,000	265	107,207	600	104,800
Mar-25	-	109,000	265	107,472	600	105,400
Apr-25	-	109,000	265	107,737	600	106,000
May-25	-	109,000	265	108,002	600	106,600
Jun-25	-	109,000	265	108,267	600	107,200
Jul-25	-	109,000	265	108,532	600	107,800
Aug-25	-	109,000	265	108,797	600	108,400
Sep-25	-	109,000	173	108,970	400	108,800
Oct-25	-	109,000	30	109,000	200	109,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2020.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in November 2021 and contract completion October 2025; duration 48 months.

PDI: Airfield Development Phase 1, Inc 3; CNMI Tinian



1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: FUEL TANKS W/PIPELN & HYDRANT, INC 3		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-135	7. PROJECT NUMBER PAF189010	8. PROJECT COST (\$000) AUTH:0 APPR:20,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				75,797
JET FUEL STORAGE-ABOVE GROUND (411-135)	BL	220,000	146	(32,085)
PIPELINE, LIQUID FUELS-ABOVE GROUND (125-554)	LM	9,020	2,244	(20,241)
PUMP STATION, LIQUID FUEL (125-977)	GM	4,400	4,470	(19,667)
HYDRANT FUELING BUILDING (121-124)	SM	84	5,667	(476)
LIQUID FUEL TRUCK FILL STAND (126-925)	OL	2	355,428	(711)
PETROLEUM OPERATIONS BUILDING (121-111)	SM	149	4,906	(731)
AVIATION FUEL DISPENSING (121-115)	OL	1	150,000	(150)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUSTAINABILITY AND ENERGY MEASURES (2.0%)	LS			(1,486)
SUPPORTING FACILITIES				71,714
SITE IMPROVEMENTS	LS			(49,911)
PAVEMENTS	LS			(9,716)
UTILITIES	LS			(9,022)
BACKUP GENERATOR	KW	1,780	500	(890)
ENVIRONMENTAL REMEDIATION	LS			(300)
ARCHAEOLOGICAL MONITORING	LS			(75)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE	LS			(1,500)
SUBTOTAL				147,211
CONTINGENCY (5.0%)				7,361
TOTAL CONTRACT COST				154,572
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				9,583
TOTAL REQUEST				164,155
TOTAL REQUEST (ROUNDED)				164,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,030)
10. Description of Proposed Construction: Construct new jet fuel system including harbor fuel receipt, pipeline, fuel storage, and high flow rate fuel delivery to parking apron hydrant system as well as to truck stands. Fuel storage tanks include one 100K barrel aboveground storage tank and two 60K barrel aboveground storage tanks. The system will also include carbon steel pipelines, additization station, seaport pump station, cargo staging area with biosecurity control, operational pump station at airport, truck fill stands, pantograph fuel dispensing, fire protection, spill control,				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-135	7. PROJECT NUMBER PAF189010	8. PROJECT COST (\$000) AUTH:0 APPR:20,000	
<p>backup generator required for fuel facilities, and parking for fuel-related vehicles. The project will include all necessary supporting facilities for a complete and usable facility including electrical, mechanical, HVAC, communications, area lighting and structural work for full and complete operations. Facilities must be able to withstand 190 mile per hour winds for structural elements and Seismic Zone 3 design criteria. Generator is authorized for fuel systems per Air Force Instruction 32-1062. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements. This project will comply with Department of Defense antiterrorism / force protection requirements per Unified Facilities Criteria 4-010-01, Department of Defense Minimum Anti-terrorism Standards for Buildings.</p> <p>Air Conditioning: 18 Tons</p>				
<p>11. Requirement: 220,000 BL Adequate: 0 BL Substandard: 0 BL</p> <p>PROJECT: Fuel Tanks with Receipt Pipeline and Hydrant System</p> <p>REQUIREMENT: This project is part of the USAF plan in the Commonwealth of the Northern Mariana Islands (CNMI) to support a combination of cargo, tanker, and similar aircraft and associated support personnel for divert operations, training exercises, humanitarian assistance, disaster relief, and operational support to Air Force missions. This project will provide the ability to receive, store, and distribute 220,000 barrels of jet fuel in the CNMI to support Air Force mission requirements. It includes seaport facilities and pipelines to transport fuel from delivery ship to the bulk tanks at the airfield. It includes pump stations as needed (i.e., near the seaport to pump fuel from transport vessel to the bulk tanks, and another pump station to transport fuel from the tanks to the aircraft). The tanks will include an additional station and truck fill stands. Fire suppression is included, as required. A storage facility is required near the pump and controls building to store a trailer with containment boom and store the tanker to shore offload hose. The purpose is to support and conduct current, emerging, and future USAF training activities, while ensuring the capability to meet mission requirements in the event that access to Andersen Air Force Base or other western Pacific locations is limited or denied. The proposed action is needed because there is not an existing divert or contingency airfield on U.S. territory in the western Pacific that is designed and designated to provide strategic operational and exercise capabilities for U.S. forces when needed and humanitarian assistance and disaster relief in times of natural or man-made disasters. All construction projects must comply with Federal Aviation Administration regulations including Orders and Advisory Circulars applicable to commercial airports. In addition, project</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-135	7. PROJECT NUMBER PAF189010	8. PROJECT COST (\$000) AUTH:0 APPR:20,000

will comply with CNMI Public Law 06-45 building codes.

CURRENT SITUATION: A single airfield with facilities for the safe exercise of military activities does not exist in the Commonwealth of the Northern Mariana Islands.

IMPACT IF NOT PROVIDED: Without this facility, there is not an adequate supply of fuel to conduct USAF missions from the Commonwealth of the Northern Mariana Islands, which precludes use of the CNMI for emerging and future exercise missions or to divert tanker aircraft or respond effectively to natural disasters in the area.

ADDITIONAL: This project complies with the criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. A Waiver to an Economic Analysis has been approved for this project. Note the unit costs for the Hydrant System Fuel Pump House and Seaport Fuel Pump House are seemingly high as the unit cost includes, in addition to the respective pump house facilities, pumps and associated equipment which will be contained in the pump houses. Supporting Facilities exceed 25% of the primary facility costs due to extensive excavation/in-fill requirements due to the topography of the land and the lack of power and water utilities. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. This project does not fall within or partly within the 100-year flood plain. Facilities will be designed as permanent construction in accordance with the Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-01, High Performance and Sustainable Building Requirements is partially compliant or not applicable.

Base Civil Engineer: 808-449-381

Fuel Tanks: 220,000 BL = 9,240,000 GA;

Pipeline: 9,020 LM = 29,600 LF;

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3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: FUEL TANKS W/PIPELN & HYDRANT, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-135	7. PROJECT NUMBER PAF189010	8. PROJECT COST (\$000) AUTH:0 APPR:20,000
<p>Hydrant Fueling Building: 84 SM = 904 SF; Petroleum Operations Building: 149 SM = 1604 SF JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-135	7. PROJECT NUMBER PAF189010	8. PROJECT COST (\$000) AUTH:0 APPR:20,000
12. SUPPLEMENTAL DATA:			
13. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	17-DEC-18		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	100 %		
(e) Date 35% Designed	28-JUN-19		
(f) Date Design Complete	19-OCT-21		
(g) Energy Study/Life-Cycle cost analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(b) Where Design Was Most Recently Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e):	(\$000)		
(a) Production of Plans and Specifications	6,540		
(b) All Other Design Costs	3,270		
(c) Total	9,810		
(d) Contract	8,175		
(e) In-house	1,635		
(4) Construction Contract Award	22-SEP		
(5) Construction Start	22-OCT		
(6) Construction Completion	26-MAR		
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHING, FIXTURES & EQUIP	3400	23	2,030

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: FUEL TANKS W/PIPELN & HYDRANT, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 411-135	7. PROJECT NUMBER PAF189010	8. PROJECT COST (\$000) AUTH:0 APPR:20,000
c. Title, Authorization, and Appropriation Summary:			
Tinian PDI: Fuel Tanks w/Pipeln & Hydrant, Inc 3			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2020 Enacted	109,000	10,000	25,000
FY2023 Enacted	-----	92,000	92,000
FY2024 Budget Request	-----	20,000	20,000
Total	109,000		137,000
<p>A 10 USC 2853 notification will be submitted to support the increase in authorization.</p>			

Project: PDI: Fuel Tanks w/ Pipeln & Hydrant, Inc 3, Tinian, CNMI

Project Spending Plan
 As of: 21-Feb-23
 All Cost in thousands (\$000)

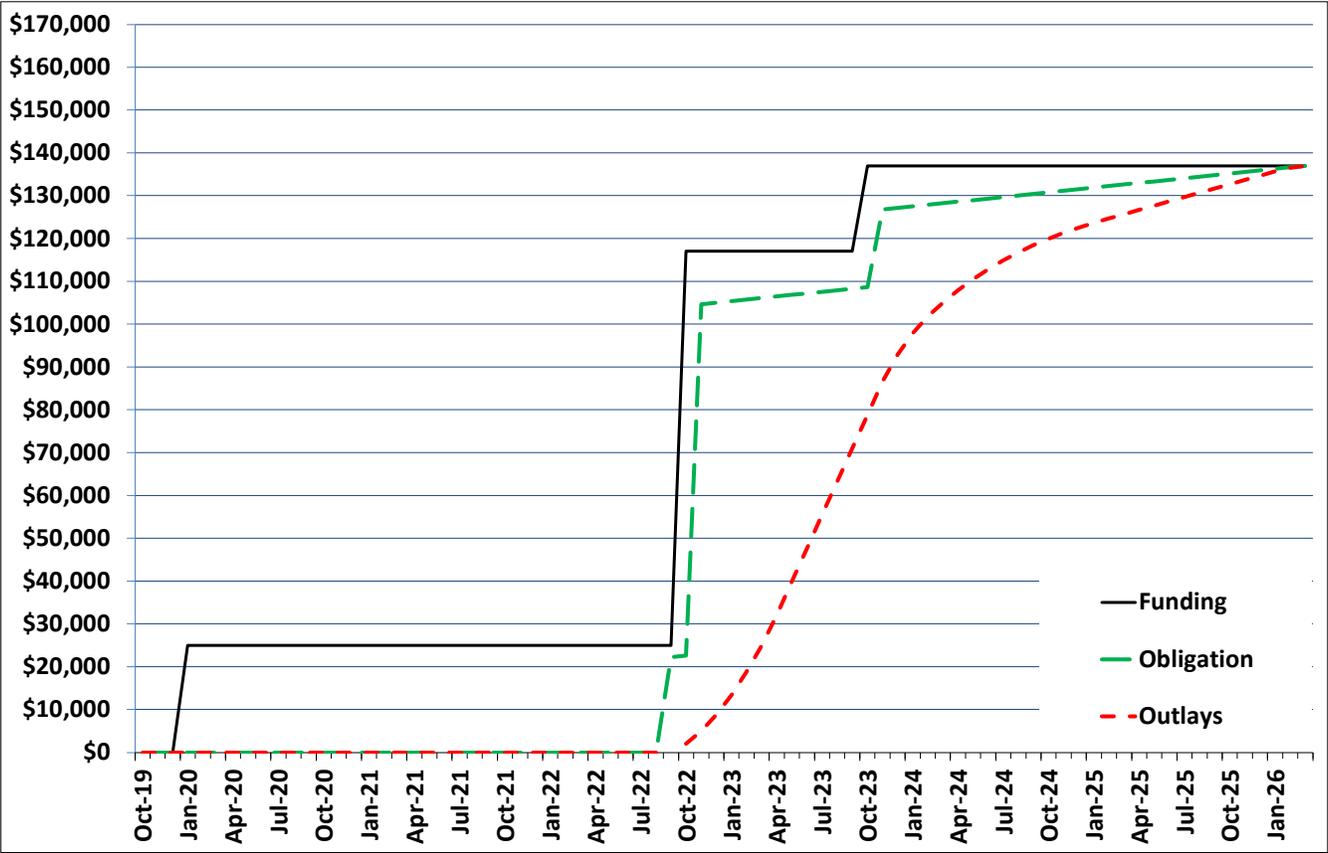
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Oct-19	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-19	-	-	-	-	-	-
Nov-19	-	-	-	-	-	-
Dec-19	-	-	-	-	-	-
Jan-20	25,000	25,000	-	-	-	-
Feb-20	-	25,000	-	-	-	-
Mar-20	-	25,000	-	-	-	-
Apr-20	-	25,000	-	-	-	-
May-20	-	25,000	-	-	-	-
Jun-20	-	25,000	-	-	-	-
Jul-20	-	25,000	-	-	-	-
Aug-20	-	25,000	-	-	-	-
Sep-20	-	25,000	-	-	-	-
Oct-20	-	25,000	-	-	-	-
Nov-20	-	25,000	-	-	-	-
Dec-20	-	25,000	-	-	-	-
Jan-21	-	25,000	-	-	-	-
Feb-21	-	25,000	-	-	-	-
Mar-21	-	25,000	-	-	-	-
Apr-21	-	25,000	-	-	-	-
May-21	-	25,000	-	-	-	-
Jun-21	-	25,000	-	-	-	-
Jul-21	-	25,000	-	-	-	-
Aug-21	-	25,000	-	-	-	-
Sep-21	-	25,000	-	-	-	-
Oct-21	-	25,000	-	-	-	-
Nov-21	-	25,000	-	-	-	-
Dec-21	-	25,000	-	-	-	-
Jan-22	-	25,000	-	-	-	-
Feb-22	-	25,000	-	-	-	-
Mar-22	-	25,000	-	-	-	-
Apr-22	-	25,000	-	-	-	-
May-22	-	25,000	-	-	-	-
Jun-22	-	25,000	-	-	-	-
Jul-22	-	25,000	-	-	-	-
Aug-22	-	25,000	-	-	-	-
Sep-22	-	25,000	22,200	22,200	-	-
Oct-22	92,000	117,000	365	22,565	2,000	2,000
Nov-22	-	117,000	82,061	104,626	3,000	5,000
Dec-22	-	117,000	365	104,991	3,800	8,800
Jan-23	-	117,000	365	105,356	4,600	13,400
Feb-23	-	117,000	365	105,721	5,400	18,800
Mar-23	-	117,000	365	106,086	6,200	25,000
Apr-23	-	117,000	365	106,451	7,000	32,000
May-23	-	117,000	365	106,816	7,800	39,800
Jun-23	-	117,000	365	107,181	7,800	47,600
Jul-23	-	117,000	365	107,546	7,800	55,400
Aug-23	-	117,000	365	107,911	7,800	63,200
Sep-23	-	117,000	365	108,276	7,800	71,000
Oct-23	20,000	137,000	365	108,641	7,800	78,800
Nov-23	-	137,000	18,125	126,766	7,800	86,600
Dec-23	-	137,000	365	127,131	6,240	92,840
Jan-24	-	137,000	365	127,496	4,990	97,830
Feb-24	-	137,000	365	127,861	3,990	101,820
Mar-24	-	137,000	365	128,226	3,190	105,010
Apr-24	-	137,000	365	128,591	2,870	107,880
May-24	-	137,000	365	128,956	2,580	110,460
Jun-24	-	137,000	365	129,321	2,320	112,780
Jul-24	-	137,000	365	129,686	2,090	114,870
Aug-24	-	137,000	365	130,051	1,880	116,750
Sep-24	-	137,000	365	130,416	1,690	118,440
Oct-24	-	137,000	365	130,781	1,520	119,960
Nov-24	-	137,000	365	131,146	1,370	121,330
Dec-24	-	137,000	365	131,511	1,230	122,560
Jan-25	-	137,000	365	131,876	1,110	123,670
Feb-25	-	137,000	365	132,241	1,000	124,670
Mar-25	-	137,000	365	132,606	1,000	125,670
Apr-25	-	137,000	365	132,971	1,000	126,670
May-25	-	137,000	365	133,336	1,000	127,670
Jun-25	-	137,000	365	133,701	1,000	128,670
Jul-25	-	137,000	365	134,066	1,000	129,670
Aug-25	-	137,000	365	134,431	1,000	130,670
Sep-25	-	137,000	365	134,796	1,000	131,670
Oct-25	-	137,000	365	135,161	1,000	132,670
Nov-25	-	137,000	365	135,526	1,000	133,670
Dec-25	-	137,000	365	135,891	1,000	134,670
Jan-26	-	137,000	365	136,256	1,000	135,670
Feb-26	-	137,000	365	136,621	830	136,500
Mar-26	-	137,000	379	137,000	500	137,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2020.

Assumes funds are available for obligation by Note 2: 31 January of the execution year and by 31 October for subsequent years.

Contract award September 2022; contract completion March 2026. Duration 42 months. Note 3:

PDI: Fuel Tanks w/ Pipeln & Hydrant, Inc 3, Tinian, CNMI



1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS			4. PROJECT TITLE PDI: PARKING APRON, INC 3		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER PAF189022	8. PROJECT COST (\$000) AUTH: 0 APPR: 32,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					64,981
APRON (113-321)		SM	152,411	270	(41,151)
TAXIWAY (112-211)		SM	39,783	270	(10,741)
SHOULDER, PAVED (116-642)		SM	37,726	55	(2,075)
HYDRANT FUELING SYSTEM (121-122)		OL	12	790,802	(9,490)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(250)
SUSTAINABILITY AND ENERGY MEASURES (2.0%)		LS			(1,274)
SUPPORTING FACILITIES					23,285
UTILITIES		LS			(2,844)
SITE IMPROVEMENTS		LS			(13,142)
PAVEMENTS		LS			(1,017)
LIGHTING AND COMMUNICATIONS		LS			(1,844)
ENVIRONMENTAL MONITORING		LS			(150)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE		LS			(4,288)
SUBTOTAL					88,266
CONTINGENCY (5.0%)					4,413
TOTAL CONTRACT COST					92,679
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)					5,746
TOTAL REQUEST					98,425
TOTAL REQUEST (ROUNDED)					98,000
<p>10. Description of Proposed Construction: Construct an aircraft parking apron and taxiways, with associated shoulders, using established airfield concrete and hot mix asphalt standards. The parking apron will be sized for 12 KC-135/KC-46A aircraft and includes hydrant piping and related components to support 12 fuel valve pits. The taxiways are required to meet Department of Defense standards for ground control operations for large frame aircraft. The project includes all necessary supporting components for a complete and usable facility. Facilities must be able to withstand 190 mph winds for structural elements and will be designed to Seismic Zone 3 design criteria.</p> <p>Air Conditioning: 0 Tons</p>					
<p>11. Requirement: 152,411 SM Adequate: 0 SM Substandard: 0 SM</p> <p>PROJECT: Parking Apron</p> <p>REQUIREMENT: Construct facilities and infrastructure in the Commonwealth of</p>					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: PARKING APRON, INC 3		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER PAF189022	8. PROJECT COST (\$000) AUTH: 0 APPR: 32,000	
<p>the Northern Mariana Islands (CNMI) to support a combination of cargo, tanker, and similar aircraft and associated support personnel for divert operations, training exercises, humanitarian assistance, disaster relief, and operational support to AirForce missions.</p> <p>This project will provide the aircraft parking apron (includes hydrant refueling) and taxiway system to access the commercial runway needs to comply with DoD/Unified Facilities Criteria, Federal Aviation Administration (FAA), and AF requirements. The purpose is to support and conduct current, emerging, and future USAF training activities, while ensuring the capability to meet mission requirements in the event that access to other western Pacific locations is limited or denied. The proposed action is needed because there is not an existing divert or contingency airfield on U.S. territory in the western Pacific that is designed and designated to provide strategic operational and exercise capabilities for U.S. forces when needed and humanitarian assistance and disaster relief in times of natural or man-made disasters. All construction projects must comply with FAA regulations including Orders and Advisory Circulars applicable to commercial airports. In addition, this project will comply with CNMI Public Law 06-45 building codes.</p> <p>CURRENT SITUATION: A redundant airfield, with a required fuel depot and refueling capability/facilities for refueling aircraft that support multiple military activities/missions does not exist in the CNMI.</p> <p>IMPACT IF NOT PROVIDED: Without this apron and taxiway system, there is not adequate aircraft parking and in-ground re-fueling capability to conduct USAF refueling operation missions from the CNMI. CNMI's strategic location is vital to PACOM/PACAF emerging/future missions/activities for divert tanker aircraft to effectively respond to natural disaster/humanitarian relief efforts in the area.</p> <p>ADDITIONAL: This design shall conform to criteria established in the Air Force Corporate Facilities Standards but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard from the Navy design agent. A Waiver to an Economic Analysis has been approved for this project. This project complies with the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." Supporting Facility costs exceed 25% of the cost of Primary Facilities due to the extensive costs of site improvements and the associated Explosive Safety clearance requirements. This project does not fall within or partly within the 100-year flood plain. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION TINIAN INTERNATIONAL AIRPORT NORTHERN MARIANA ISLANDS		4. PROJECT TITLE PDI: PARKING APRON, INC 3	
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<p>accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements is partially compliant or not applicable. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings.</p> <p>Base Civil Engineer: 808-449-3810</p> <p>Apron: 152,411 SM = 1,640,538 SF;</p> <p>Taxiway: 39,783 SM = 428,221 SF;</p> <p>Shoulder: 37,726 SM = 406,079 SF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
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12. SUPPLEMENTAL DATA:			
13. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	25-JAN-19		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	100 %		
(e) Date 35% Designed	15-MAR-19		
(f) Date Design Complete	21-MAY-20		
(g) Energy Study/Life-Cycle analysis was performed	YES		
(2) Basis:			
(a) Standard or Definitive Design -	NO		
(b) Where Design Was Most Recently Used -	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e):	(\$000)		
(a) Production of Plans and Specifications	5,880		
(b) All Other Design Costs	2,940		
(c) Total	8,820		
(d) Contract	7,350		
(e) In-house	1,470		
(4) Construction Contract Award	21-NOV		
(5) Construction Start	22-JAN		
(6) Construction Completion	25-OCT		
b. Equipment associated with this project provided from other appropriations:			
N/A			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER PAF189022	8. PROJECT COST (\$000) AUTH: 0 APPR: 32,000
c. Title, Authorization, and Appropriations Summary:			
Tinian PDI: Parking Apron, Inc 3			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2020 Enacted	98,000	25,000	25,000
FY2023 Enacted	-----	41,000	41,000
FY2024 Budget Request	-----	32,000	32,000
Total	98,000		98,000

Project: PDI: Parking Apron, Inc 3; CNMI Tinian

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands (\$000)

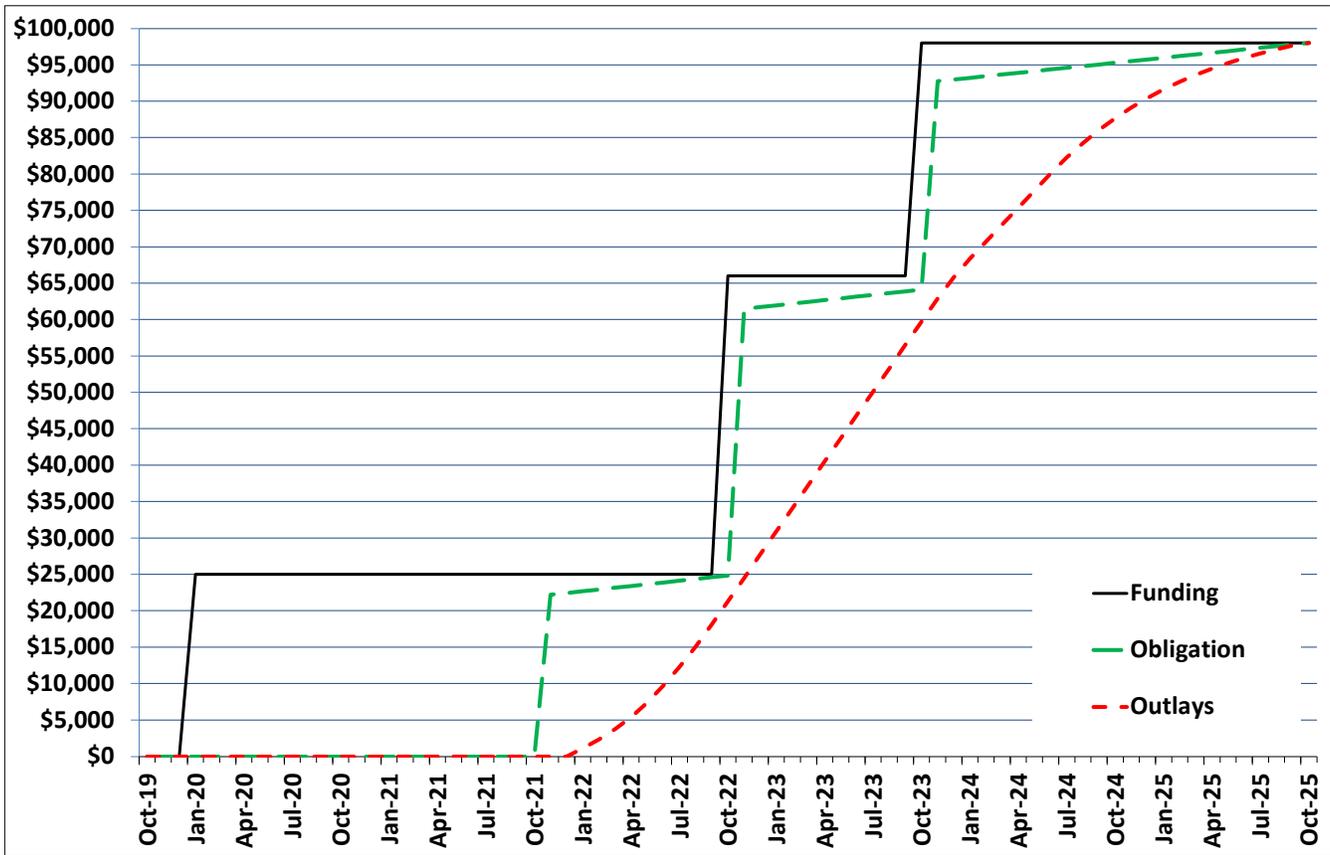
Chart Begin Oct-19	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-19	-	-	-	-	-	-
Nov-19	-	-	-	-	-	-
Dec-19	-	-	-	-	-	-
Jan-20	25,000	25,000	-	-	-	-
Feb-20	-	25,000	-	-	-	-
Mar-20	-	25,000	-	-	-	-
Apr-20	-	25,000	-	-	-	-
May-20	-	25,000	-	-	-	-
Jun-20	-	25,000	-	-	-	-
Jul-20	-	25,000	-	-	-	-
Aug-20	-	25,000	-	-	-	-
Sep-20	-	25,000	-	-	-	-
Oct-20	-	25,000	-	-	-	-
Nov-20	-	25,000	-	-	-	-
Dec-20	-	25,000	-	-	-	-
Jan-21	-	25,000	-	-	-	-
Feb-21	-	25,000	-	-	-	-
Mar-21	-	25,000	-	-	-	-
Apr-21	-	25,000	-	-	-	-
May-21	-	25,000	-	-	-	-
Jun-21	-	25,000	-	-	-	-
Jul-21	-	25,000	-	-	-	-
Aug-21	-	25,000	-	-	-	-
Sep-21	-	25,000	-	-	-	-
Oct-21	-	25,000	-	-	-	-
Nov-21	-	25,000	22,200	22,200	-	-
Dec-21	-	25,000	239	22,439	-	-
Jan-22	-	25,000	239	22,678	1,100	1,100
Feb-22	-	25,000	239	22,917	1,200	2,300
Mar-22	-	25,000	239	23,156	1,400	3,700
Apr-22	-	25,000	239	23,395	1,700	5,400
May-22	-	25,000	239	23,634	2,000	7,400
Jun-22	-	25,000	239	23,873	2,300	9,700
Jul-22	-	25,000	239	24,112	2,600	12,300
Aug-22	-	25,000	239	24,351	2,800	15,100
Sep-22	-	25,000	239	24,590	3,000	18,100
Oct-22	41,000	66,000	239	24,829	3,200	21,300
Nov-22	-	66,000	36,647	61,476	3,200	24,500
Dec-22	-	66,000	239	61,715	3,200	27,700
Jan-23	-	66,000	239	61,954	3,200	30,900
Feb-23	-	66,000	239	62,193	3,200	34,100
Mar-23	-	66,000	239	62,432	3,200	37,300
Apr-23	-	66,000	239	62,671	3,200	40,500
May-23	-	66,000	239	62,910	3,200	43,700
Jun-23	-	66,000	239	63,149	3,200	46,900
Jul-23	-	66,000	239	63,388	3,200	50,100
Aug-23	-	66,000	239	63,627	3,200	53,300
Sep-23	-	66,000	239	63,866	3,200	56,500
Oct-23	32,000	98,000	239	64,105	3,200	59,700
Nov-23	-	98,000	28,645	92,750	3,200	62,900
Dec-23	-	98,000	229	92,979	2,880	65,780
Jan-24	-	98,000	229	93,208	2,592	68,372
Feb-24	-	98,000	229	93,437	2,333	70,705
Mar-24	-	98,000	229	93,666	2,333	73,038
Apr-24	-	98,000	229	93,895	2,333	75,370
May-24	-	98,000	229	94,124	2,333	77,703
Jun-24	-	98,000	229	94,353	2,333	80,036
Jul-24	-	98,000	229	94,582	2,216	82,252
Aug-24	-	98,000	229	94,811	1,995	84,247
Sep-24	-	98,000	229	95,040	1,795	86,042
Oct-24	-	98,000	229	95,269	1,616	87,657
Nov-24	-	98,000	229	95,498	1,454	89,111
Dec-24	-	98,000	229	95,727	1,309	90,420
Jan-25	-	98,000	229	95,956	1,178	91,598
Feb-25	-	98,000	229	96,185	1,060	92,658
Mar-25	-	98,000	229	96,414	954	93,612
Apr-25	-	98,000	229	96,643	859	94,470
May-25	-	98,000	229	96,872	773	95,243
Jun-25	-	98,000	229	97,101	695	95,939
Jul-25	-	98,000	229	97,330	626	96,564
Aug-25	-	98,000	229	97,559	563	97,128
Sep-25	-	98,000	229	97,788	507	97,635
Oct-25	-	98,000	212	98,000	365	98,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2020.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in November 2021 and contract completion October 2025; duration 48 months.

PDI: Parking Apron, Inc 3; CNMI Tinian



1. COMPONENT AIR FORCE			FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20230301			
3. INSTALLATION AND LOCATION JRM-ANDERSEN AIR FORCE BASE, GUAM						4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 2.75			
6. PERSONNEL			(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22			158	1,595	376	0	0	0	0	0	0	2,129
b. END FY			158	1,643	383	0	0	0	0	0	0	2,184
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE										20,720		
b. INVENTORY TOTAL AS OF 30-SEP-22										1,917,095.00		
c. AUTHORIZATION NOT YET IN INVENTORY										262,158.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										411,000.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00		
g. REMAINING DEFICIENCY										543,186.00		
h. GRAND TOTAL										3,133,439.00		
8. PROJECTS REQUESTED IN THIS PROGRAM												
a. CATEGORY						b. COST (\$000)		c. DESIGN STATUS				
(1) CODE	(2) PROJECT TITLE				(3) SCOPE				(1) START	(2) COMPLETE		
113-321	PDI: NORTH AIRCRAFT PARKING RAMP, INC 1				176,612 SM		109,000		12/20	09/23		
9. FUTURE PROJECTS												
N/A												
10. MISSION OR MAJOR FUNCTIONS												
Joint Region Marianas-Andersen is home to the 36th Wing with the primary mission to employ, deploy, integrate, and enable air and space forces from the most forward US sovereign Air Force base in the Pacific. Provides continuous bomber presence 365 days per year to support US Indo-Pacific Command. Provides a Contingency Response Group with a "911 force" capability to quickly deploy to any hot spot in the region rapidly opening and operating an air base for both combat and humanitarian assistance missions.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES												
N/A												

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AIR FORCE BASE GUAM		4. PROJECT TITLE: PDI: NORTH AIRCRAFT PARKING RAMP, INC 1			
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER AJJY183012	8. PROJECT COST (\$000) Auth: 411,000 Appr: 109,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					164,369
APRON (113-321)		SM	176,612	833	(147,118)
SHOULDER, PAVED (116-642)		SM	40,454	212	(8,576)
UTILITY VAULT (890-187)		SM	448	13,817	(6,190)
AIRCRAFT SUPPORT EQUIPMENT SHOP (218-712)		SM	140	15,964	(2,235)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(250)
SUPPORTING FACILITIES					195,440
UTILITIES		LS			(8,918)
HYDRANT FUEL PITS AND PIPING		LS			(19,827)
APRON LIGHTING		LS			(4,768)
SITE IMPROVEMENTS		LS			(98,876)
PAVEMENTS		LS			(2,613)
COMMUNICATIONS		LS			(1,229)
ELECTRICAL		LS			(7,078)
GENERATOR		KW	300	1,427	(428)
ENVIRONMENTAL REMEDIATION		LS			(300)
ARCHAEOLOGICAL MONITORING		LS			(300)
UNEXPLODED ORDNANCE CLEARANCE		LS			(51,103)
SUBTOTAL					359,809
CONTINGENCY (5.0%)					17,990
TOTAL CONTRACT COST					377,799
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)					27,579
POST-CONSTRUCTION AWARD SERVICES					5,667
TOTAL REQUEST					411,045
TOTAL REQUEST (ROUNDED)					411,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(485)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct an aircraft parking apron with associated taxiways and shoulders, aircraft support equipment shop, utility vault (includes fire water pumping station, generator, and communications facilities), airfield fence, and hydrant fueling pits and piping required to accommodate bombers, tankers, and other aircraft. Infrastructure and facility design should be compatible with applicable Department of Defense, Air Force, and base design standards. Work to include all subgrade and					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AIR FORCE BASE GUAM		4. PROJECT TITLE: PDI: NORTH AIRCRAFT PARKING RAMP, INC 1	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER AJJY183012	8. PROJECT COST (\$000) Auth: 411,000 Appr: 109,000
<p>sub-base work, drainage, lighting, grounding, mooring, marking, fencing, apron and taxiway area lighting, and other necessary airfield support. Provides new utilities including a fuel hydrant loop, fuel hydrant pits at each parking position, and fire hydrants located around the perimeter, as well as site improvements and communications. Backup generator is authorized by Air Force Manual 32-1062. The project will meet requirements in Unified Facilities Criteria 3-260-1 "Airfield & Heliport Planning & Design."</p> <p>Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 12 Tons</p>			
<p>11. REQUIREMENT: 176,612 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct new Aircraft Parking Ramp on north side of runway.</p> <p>REQUIREMENT: An apron for B-52 aircraft is required to support parking, servicing, and loading/ unloading in support of bomber bed down aircraft. The apron must be sized to park fourteen bomber aircraft under normal operating conditions. Apron pavement must be designed and constructed to support the heaviest aircraft required to use/transit the apron. An aircraft support equipment shop must be constructed adjacent to the apron to support mission needs. This north ramp infrastructure will increase the demand on existing utility systems beyond current capacity, so a utility building with underground fire water storage tanks is required to provide utilities for the development. Construction of apron and road pavement systems as well as the addition of fire protection, electrical power, water, sewage, and communications are required. A hydrant loop and fourteen fuel hydrants must be installed at each aircraft parking position as well as fire hydrants located along the perimeter of the apron. This project will also support large force exercises with service components and international partners.</p> <p>CURRENT SITUATION: Currently the hardstand parking locations on taxiway Charlie has little to no support infrastructure. The required dispersed taxiway loop and hangar receiving aprons do not exist. Existing fire hydrant pressures along the north ramp area are well below the required minimal fire flow pressure. Hardened electrical and communications lines to support new mission facilities do not exist. Both electrical and communications lines should be placed in-duct and concrete encased.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AIR FORCE BASE GUAM		4. PROJECT TITLE: PDI: NORTH AIRCRAFT PARKING RAMP, INC 1	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER AJJY183012	8. PROJECT COST (\$000) Auth: 411,000 Appr: 109,000

IMPACT IF NOT PROVIDED: Without this apron and the supporting utilities, Andersen AFB will be unable to adequately support the bomber aircraft operations during contingencies, significantly impacting readiness and degrading operational capability and may increase the potential for a serious mishap.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from Naval Facilities Engineering Command.

Supporting facilities exceed 25% of the primary facility costs due to extensive site improvements, utility/communications infrastructure, and hydrant fueling system work required.

A Waiver to an Economic Analysis has been approved for this project.

Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.

Civil Engineer: (671) 366-7101.

Apron: 176,612 Square Meters = 1,901,036 Square Feet;

Shoulder Paved: 40,454 Square Meters = 435,443 Square Feet;

Utility Vault: 448 Square Meters = 4,822 Square Feet;

Aircraft Support Equipment Shop: 140 Square Meters = 1,507 Square Feet

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

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<p>12. SUPPLEMENTAL DATA</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Type of Design</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td>10-DEC-20</td> </tr> <tr> <td>(c) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023</td> <td>65%</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>05-NOV-21</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>01-SEP-23</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total cost = (a) + (b) and (d) + (e) (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>24,660</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>12,330</td> </tr> <tr> <td>(c) Total</td> <td>36,990</td> </tr> <tr> <td>(d) Contract</td> <td>30,825</td> </tr> <tr> <td>(e) In-house</td> <td>6,165</td> </tr> </table> <p>(4) Construction Contract Award 24-JUN</p> <p>(5) Construction Start 24-JUL</p> <p>(6) Construction Completion 28-FEB</p> <p>b. Equipment associated with this project provided from other appropriations:</p> <table border="0"> <thead> <tr> <th rowspan="2">EQUIPMENT NOMENCLATURE</th> <th rowspan="2">PROCURING APPROP</th> <th colspan="2">FISCAL YEAR</th> </tr> <tr> <th>APPROPRIATED OR REQUESTED</th> <th>COST (\$000)</th> </tr> </thead> <tbody> <tr> <td>FURNITURE FIXTURES & EQUIPMENT</td> <td>3400</td> <td>2028</td> <td>245</td> </tr> <tr> <td>COMMUNICATION EQUIPMENT</td> <td>3400</td> <td>2028</td> <td>240</td> </tr> </tbody> </table>				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	10-DEC-20	(c) Parametric Cost Estimates used to develop costs	YES	(d) Percent Complete as of 01 JAN 2023	65%	(e) Date 35% Designed	05-NOV-21	(f) Date Design Complete	01-SEP-23	(g) Energy Study/Life-Cycle analysis was performed	YES	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	24,660	(b) All Other Design Costs	12,330	(c) Total	36,990	(d) Contract	30,825	(e) In-house	6,165	EQUIPMENT NOMENCLATURE	PROCURING APPROP	FISCAL YEAR		APPROPRIATED OR REQUESTED	COST (\$000)	FURNITURE FIXTURES & EQUIPMENT	3400	2028	245	COMMUNICATION EQUIPMENT	3400	2028	240
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COMMUNICATION EQUIPMENT	3400	2028	240																																										

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AIR FORCE BASE GUAM		4. PROJECT TITLE: PDI: NORTH AIRCRAFT PARKING RAMP, INC 1	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER AJJY183012	8. PROJECT COST (\$000) Auth: 411,000 Appr: 109,000

c. Authorization and Appropriation Summary:

JRM Andersen - PDI: North Aircraft Parking Ramp, Inc 1

	Authorization (\$000)	Auth of Approp (\$000)	Appropriation (\$000)
FY2024 Budget Request	411,000	109,000	109,000
Future Budget Request	-----	302,000	302,000
Total	411,000		411,000

Project: PDI: North Aircraft Parking Ramp, Inc 1; JRM Andersen AFB, Guam

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands (\$000)

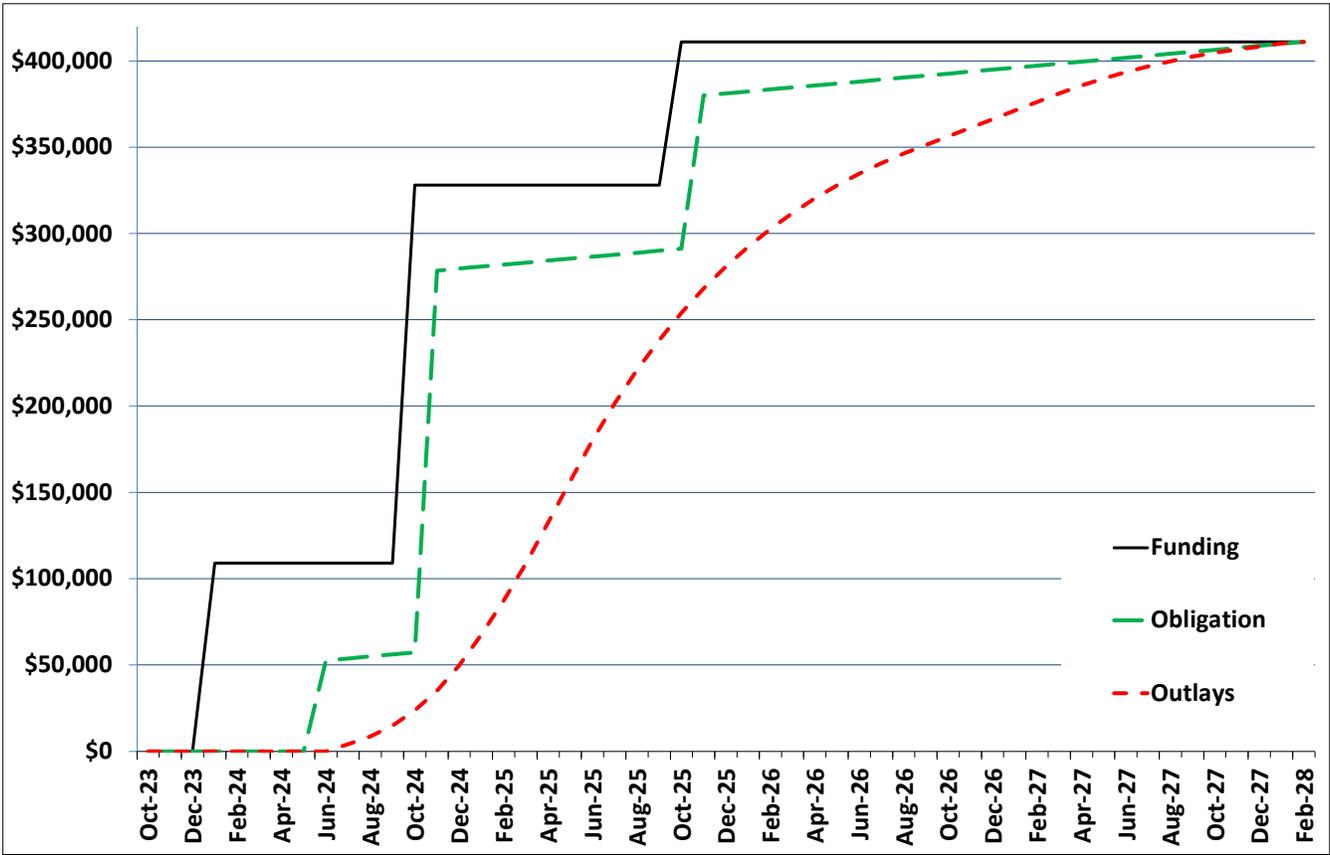
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Oct-23	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-23	-	-	-	-	-	-
Nov-23	-	-	-	-	-	-
Dec-23	-	-	-	-	-	-
Jan-24	109,000	109,000	-	-	-	-
Feb-24	-	109,000	-	-	-	-
Mar-24	-	109,000	-	-	-	-
Apr-24	-	109,000	-	-	-	-
May-24	-	109,000	-	-	-	-
Jun-24	-	109,000	52,620	52,620	-	-
Jul-24	-	109,000	1,149	53,769	4,000	4,000
Aug-24	-	109,000	1,149	54,918	4,500	8,500
Sep-24	-	109,000	1,149	56,067	6,300	14,800
Oct-24	219,000	328,000	1,149	57,216	8,800	23,600
Nov-24	-	328,000	221,276	278,492	11,400	35,000
Dec-24	-	328,000	1,149	279,641	14,800	49,800
Jan-25	-	328,000	1,149	280,790	17,800	67,600
Feb-25	-	328,000	1,149	281,939	19,600	87,200
Mar-25	-	328,000	1,149	283,088	21,600	108,800
Apr-25	-	328,000	1,149	284,237	23,800	132,600
May-25	-	328,000	1,149	285,386	23,800	156,400
Jun-25	-	328,000	1,149	286,535	23,800	180,200
Jul-25	-	328,000	1,149	287,684	21,400	201,600
Aug-25	-	328,000	1,149	288,833	19,300	220,900
Sep-25	-	328,000	1,149	289,982	17,400	238,300
Oct-25	83,000	411,000	1,149	291,131	15,700	254,000
Nov-25	-	411,000	88,849	379,980	14,100	268,100
Dec-25	-	411,000	1,149	381,129	12,700	280,800
Jan-26	-	411,000	1,149	382,278	11,400	292,200
Feb-26	-	411,000	1,149	383,427	10,300	302,500
Mar-26	-	411,000	1,149	384,576	9,300	311,800
Apr-26	-	411,000	1,149	385,725	8,400	320,200
May-26	-	411,000	1,149	386,874	7,600	327,800
Jun-26	-	411,000	1,149	388,023	6,800	334,600
Jul-26	-	411,000	1,149	389,172	6,100	340,700
Aug-26	-	411,000	1,149	390,321	5,500	346,200
Sep-26	-	411,000	1,149	391,470	5,000	351,200
Oct-26	-	411,000	1,149	392,619	5,000	356,200
Nov-26	-	411,000	1,149	393,768	5,000	361,200
Dec-26	-	411,000	1,149	394,917	5,000	366,200
Jan-27	-	411,000	1,149	396,066	5,000	371,200
Feb-27	-	411,000	1,149	397,215	5,000	376,200
Mar-27	-	411,000	1,149	398,364	5,000	381,200
Apr-27	-	411,000	1,149	399,513	4,500	385,700
May-27	-	411,000	1,149	400,662	4,100	389,800
Jun-27	-	411,000	1,149	401,811	3,700	393,500
Jul-27	-	411,000	1,149	402,960	3,300	396,800
Aug-27	-	411,000	1,149	404,109	3,000	399,800
Sep-27	-	411,000	1,149	405,258	2,700	402,500
Oct-27	-	411,000	1,149	406,407	2,200	404,700
Nov-27	-	411,000	1,149	407,556	1,800	406,500
Dec-27	-	411,000	1,149	408,705	1,800	408,300
Jan-28	-	411,000	1,149	409,854	1,800	410,100
Feb-28	-	411,000	1,149	411,000	900	411,000

Note 1: Initial appropriation enacted by Congress January 2024. Follow-on increments anticipated October of FY25 and FY26.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Contract award June 2024; contract completion February 2028 (44 months duration).

PDI: North Aircraft Parking Apron, Inc 1; JRM Andersen AFB, Guam



1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20230301			
3. INSTALLATION AND LOCATION KADENA AIR BASE, JAPAN						4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 2.00		
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-SEP-22	756	5,704	1,347	0	0	0	2,270	17,821	4,155	32,053
b. END FY		756	5,704	1,347	0	0	0	2,270	17,821	4,155	32,053
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										12,428	
b. INVENTORY TOTAL AS OF 30-SEP-22										14,119,520.00	
c. AUTHORIZATION NOT YET IN INVENTORY										513,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										1,019,000.00	
h. GRAND TOTAL										15,651,520.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY			b. COST (\$000)			c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE						(1) START	(2) COMPLETE	
141-185	HELO RESCUE OPS MAINTENANCE HANGAR, INC 3		5,503 SM			46,000			08/19	06/21	
211-159	PDI: THEATER A/C CORROSION CONTROL CTR, INC 2		14,160 SM			42,000			11/20	10/22	
9. FUTURE PROJECTS											
211-159 PDI: Theater A/C Corrosion Control Ctr, Inc 3 (14,160 SM / \$188,000)											
10. MISSION OR MAJOR FUNCTIONS											
Operating from the largest United States installation in the Asia-Pacific region, the 18th Wing defends United States and Japanese mutual interests by providing a responsive staging and operational air base with integrated, deployable, forward-based air power. Strategy used to employ this mission centers around 93 aircraft comprised of 54 F-15, 15 KC-135, 10 HH-60, 2 E-3, 10 C-130, and 2 RC-135.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE SITE #1 KADENA AIR BASE, JAPAN				4. PROJECT TITLE HELO RESCUE OPS MAINTENANCE HANGAR, INC 3		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 141-185	7. PROJECT NUMBER LXEZ1069516		8. PROJECT COST (\$000) Auth: 0 Appr: 46,000	
9. COST ESTIMATES						
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)	
PRIMARY FACILITIES					117,669	
HELICOPTER RESCUE AND RECOVERY HANGAR(141-185)		SM	5,503	11,235	(61,826)	
SQUADRON OPERATIONS (141-753)		SM	3,404	6,061	(20,632)	
SHOP, AIRCRAFT MAINTENANCE, ORGANIZ (211-154)		SM	2,510	6,238	(15,657)	
APRON (113-321)		SM	20,088	292	(5,866)	
SHOULDER, PAVED (116-642)		SM	4,306	70	(301)	
AIRCRAFT WASHRACK (116-672)		SM	1,270	362	(460)	
FLIGHT SIMULATOR TRAINING (171-212)		SM	794	12,880	(10,227)	
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(2,700)	
SUPPORTING FACILITIES					32,649	
UTILITIES		LS			(4,928)	
SITE IMPROVEMENTS		LS			(18,037)	
PAVEMENTS		LS			(1,630)	
COMMUNICATIONS		LS			(25)	
ENVIRONMENTAL & ARCHAEOLOGICAL MITIGATION		LS			(225)	
BACKUP GENERATOR		KW	1,000	424	(424)	
DEMOLITION		SM	10,483	704	(7,380)	
SUBTOTAL					150,318	
CONTINGENCY (5.0%)					7,516	
TOTAL CONTRACT COST					157,834	
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					10,259	
TOTAL REQUEST					168,093	
TOTAL REQUEST (ROUNDED)					168,000	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(15,738)	
10. Description of Proposed Construction: Construct a Helicopter Rescue Squadron Operations and Helicopter Maintenance Unit Hangar to support rescue missions for Indo-Pacific Command/Pacific Air Forces at Kadena Air Base. The facility is comprised of single-story bays for aircraft maintenance and storage, a two-story facility for administrative spaces and shops, a simulator bay, and cranes for simulator and hangar. The facility will be constructed of cast-in-place reinforced concrete walls with a reinforced concrete floor and roof slab. The roof structure for the hangar bays will consist of a low sloping arched cast-in-place concrete supported by structural steel framing. The roof of the squadron operations and						

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE SITE #1 KADENA AIR BASE, JAPAN		4. PROJECT TITLE HELO RESCUE OPS MAINTENANCE HANGAR, INC 3		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-185	7. PROJECT NUMBER LXEZ1069516	8. PROJECT COST (\$000) Auth: 0 Appr: 46,000	
<p>Helicopter Maintenance Unit areas will also be constructed using cast-in-place concrete. The project will include supporting facilities such as utilities, pavements, concrete aircraft parking apron, edge lighting on the taxiway connection, exterior aircraft wash rack, backup generator, connection to existing airfield fencing, and site improvements to provide a complete and usable facility. The project demolishes existing facilities to include Building 3534 (10,015 Square Meters), Building 3532 (58 Square Meters), Building 3536 (58 Square Meters), Building 3538 (92 Square Meters), Building 7109 (49 Square Meters), Building 83534 (50 Square Meters), Building 3516 (57 Square Meters), Building 3603 (52 Square Meters) and Building 3604 (52 Square Meters) (Total = 10,483 Square Meters). Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings. As a mission critical facility, a backup generator is authorized per AFI 32-1062.</p> <p>Air Conditioning: 170 Tons</p>				
<p>11. Requirement: 5,503 SM Adequate: 0 SM Substandard: 10,483 SM PROJECT: Helicopter Rescue Operations Maintenance Hangar</p> <p>REQUIREMENT: An adequately sized and configured Helicopter Rescue Squadron Operations/Helicopter Maintenance Unit Hangar is required for the 33rd Rescue Squadron and 33rd Helicopter Maintenance Unit at Kadena Air Base. This facility will provide area for operations, maintenance, and storage functions required to support the mission. The 33rd Rescue Squadron is assigned ten HH-60G helicopters which will be replaced by the same number of HH-60W helicopters in Fiscal Year 2024. At least one aircraft is expected to be deployed at all times; therefore, this project only provides maintenance and weather storage space for nine aircraft. The Squadron Operations requires administrative, medical, secure areas, aircrew flight equipment, and storage. The 33rd Helicopter Maintenance Unit requires administrative spaces such as a Command Suite, Air Force Engineering Technical Services office, production office, support office, flight supervisor offices, conference space, a ready room, and locker rooms. The 33rd Helicopter Maintenance Unit maintenance spaces include weapons maintenance and storage, avionics storage, tools and parts, and engine shop. The 33rd Rescue Squadron Simulator provides space to house a fixed flight simulator to support the new combat rescue helicopter scheduled for delivery in fiscal year 2024. The flight trainer facility will house the full crew operational flight simulator, computer and audio visual systems, instructor personnel, and other devices necessary to provide realistic</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE SITE #1 KADENA AIR BASE, JAPAN		4. PROJECT TITLE HELO RESCUE OPS MAINTENANCE HANGAR, INC 3		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-185	7. PROJECT NUMBER LXEZ1069516	8. PROJECT COST (\$000) Auth: 0 Appr: 46,000	
<p>flight operations in a simulated environment. The facility will provide space for maintenance, storage, mission planning/brief/de-brief rooms, secure intelligence vault, and administrative support. Site improvements are required and include the demolition of the existing Helicopter Rescue Operations Hangar (Building 3534), along with Building 3532, Building 3536, Building 3538, Building 7109, Building 83534, Building 3516, Building 3603, and Building 3604, to provide space on the site for the new construction of the Helicopter Rescue Squadron Operations/ Helicopter Maintenance Unit Hangar. Additionally, the existing aircraft parking apron will be demolished and reconstructed to six HH-60 helicopter exterior parking spaces and a wash rack. Airfield paving is required to support the parking of six aircraft. Utilities include Heating Ventilation and Air Conditioning system, electrical system, domestic hot and cold water system, sanitary waste and vent system, automatic wet-pipe sprinkler and high-expansion foam fire protection systems, and intrusion detection system.</p> <p>Tie-in to existing airfield fencing is required to secure the flight line. Paved asphalt parking will be provided for personal and government vehicles. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: Currently, there is approximately \$340 million of United States Air Force aircraft vulnerable to typhoon conditions (45 knot winds) for at least 7 events per year due to a lack of adequate aircraft storage for the severe weather conditions. The lack of storage requires aircraft to be folded and stored in another location during weather events. Each folding/unfolding requires 320 personnel hours, which reduces availability of maintenance personnel for routine aircraft maintenance and related functions during this time. In the existing helicopter rescue hangar, Building 3534, there is inadequate maintenance and storage space, which has led to approximately \$750,000 of damaged supplies, parts and gear per year. Re- procurement of damaged items requires approximately 400 personnel hours per year. Occupancy of Building 3534 is a major safety hazard; there are issues with failing debris, pinch points, crush hazards, and manually operated hangar doors that put 33rd Rescue Squadron and 33rd Helicopter Maintenance Unit personnel at risk regularly. Additionally, there is no adequate operations center, which degrades command and control capabilities for approximately two deployments, five rescues, six exercises and forty sorties per year. The current state of Building 3534 is unable to adequately support the mission of the 33rd Rescue Squadron/33rd Helicopter Maintenance Unit mission. Kadena Air Base does not have personnel recovery and rescue flight trainer facilities or excess space that can be reconfigured to meet flight training and aircraft developmental test requirements. The high Operations Tempo of the 33rd Rescue Squadron make it necessary to have a flight simulator capability to meet in-aircraft mission training requirements and alleviate high utilization rates. The</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE SITE #1 KADENA AIR BASE, JAPAN		4. PROJECT TITLE HELO RESCUE OPS MAINTENANCE HANGAR, INC 3		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-185	7. PROJECT NUMBER LXEZ1069516	8. PROJECT COST (\$000) Auth: 0 Appr: 46,000	
<p>simulator provides a training capability that increases familiarization and proficiency in handling aircraft emergencies that cannot be accomplished in live flight. Additionally, it provides critical combat personnel recovery and rescue simulations that cannot be replicated in live flight training or at military training ranges, thereby increasing overall combat effectiveness.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, aircraft will be vulnerable to typhoon conditions that can significantly damage or remove aircraft from operations, and maintenance personnel will be required to prioritize folding/unfolding aircraft over aircraft maintenance activities. Also, the United States Air Force will continue to be impacted by the cost of loss of equipment and personnel hours due to lack of storage and re-procurement processes. If this project is not provided, the United States Air Force will assume the risk of safety hazard for personnel occupying Building 3534 and allow degraded command and control of helicopter rescue operations. The current inadequate facilities do not support the helicopter rescue missions that directly support Indo-Pacific Command/Pacific Air Force's theater stability and positioning for contingency objectives.</p> <p>Without the flight simulator space, it will not be possible to conduct current simulator training/new mission testing/flight training for aircrews and associated maintenance personnel of the legacy HH-60 and the new combat rescue helicopter. Aircrew members would have to utilize resources at Contiguous United States bases for required simulation events and this would result in increased temporary duty travel and per diem costs. Current HH-60 pilots would not have access to the simulator device, resulting in increased aircraft utilization rates, and saturated maintenance workloads.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from the Air Force Civil Engineer Center nor the U.S. Army Corps of Engineers. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost-</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE SITE #1 KADENA AIR BASE, JAPAN		4. PROJECT TITLE HELO RESCUE OPS MAINTENANCE HANGAR, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-185	7. PROJECT NUMBER LXEZ1069516	8. PROJECT COST (\$000) Auth: 0 Appr: 46,000
<p>effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements is partially compliant or not applicable. This project is eligible for host nation funding; however, the United States Forces Command states the project has extremely little chance of being funded by the host nation in the foreseeable future. Supporting Facility costs are greater than 25% of the Primary Facility costs due to extensive site improvements (i.e., excavation, cut, and fill) and removal/reconstruction of existing airfield pavements. This project does not fall within or partially within a 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>18 Civil Engineer Group: 011-81-98-960-1807</p> <p>718 Civil Engineer Squadron: 011-81-98-960-0718</p> <p>FOREIGN CURRENCY BUDGET RATE USED: 1 USD / 109.7015 YEN</p> <p>HANGAR MAINTENANCE (141-185): 5,503 SM = 59,234 Square Feet.</p> <p>SQUADRON OPERATIONS (141-753): 3,404 SM = 36,640 Square Feet.</p> <p>HELICOPTER MAINTENANCE SHOP (211-154): 2,510 SM = 27,017 Square Feet.</p> <p>APRON (113-321): 20,088 SM = 216,225 Square Feet.</p> <p>SHOULDER, PAVED (116-642): 4,306 SM = 46,349 Square Feet.</p> <p>AIRCRAFT WASHRACK (116-672): 1,270 SM = 13,670 Square Feet.</p> <p>FLIGHT SIMULATOR TRAINING (171-212): 794 SM = 8,547 Square Feet.</p> <p>DEMOLITION: 10,483 SM = 112,838 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE SITE #1 KADENA AIR BASE, JAPAN		4. PROJECT TITLE HELO RESCUE OPS MAINTENANCE HANGAR, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-185	7. PROJECT NUMBER LXEZ1069516	8. PROJECT COST (\$000) Auth: 0 Appr: 46,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	16-AUG-19		
(c) Parametric Cost Estimates Used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	100%		
(e) Date 35% Designed	20-FEB-20		
(f) Date Design Complete	12-JUN-21		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(b) Where Design Was Most Recently Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)		
(a) Production of Plans and Specifications	9,780		
(b) All Other Design Costs	4,890		
(c) Total	14,670		
(d) Contract	12,225		
(e) In-house	2,445		
(4) Construction Contract Award	23-MAR		
(5) Construction Start	23-APR		
(6) Construction Completion	26-OCT		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIP	3400	2025	35
COMMUNICATIONS EQUIPMENT/SIMULATOR	3080	2025	15,703

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE SITE #1 KADENA AIR BASE, JAPAN		4. PROJECT TITLE HELO RESCUE OPS MAINTENANCE HANGAR, INC 3	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 141-185	7. PROJECT NUMBER LXEZ1069516	8. PROJECT COST (\$000) Auth: 0 Appr: 46,000

c. Title, Authorization, and Appropriations Summary:

	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2022 Enacted	168,000	35,000	70,000
FY2023 Enacted	-----	71,000	71,000
FY2024 Budget Request	-----	46,000	46,000
Total	168,000		187,000

A 10 USC 2853 notification will be submitted to support the increase in authorization.

Project: Helo Rescue Ops Maintenance Hangar, Inc 3, Kadena AB, Japan

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands (\$000)

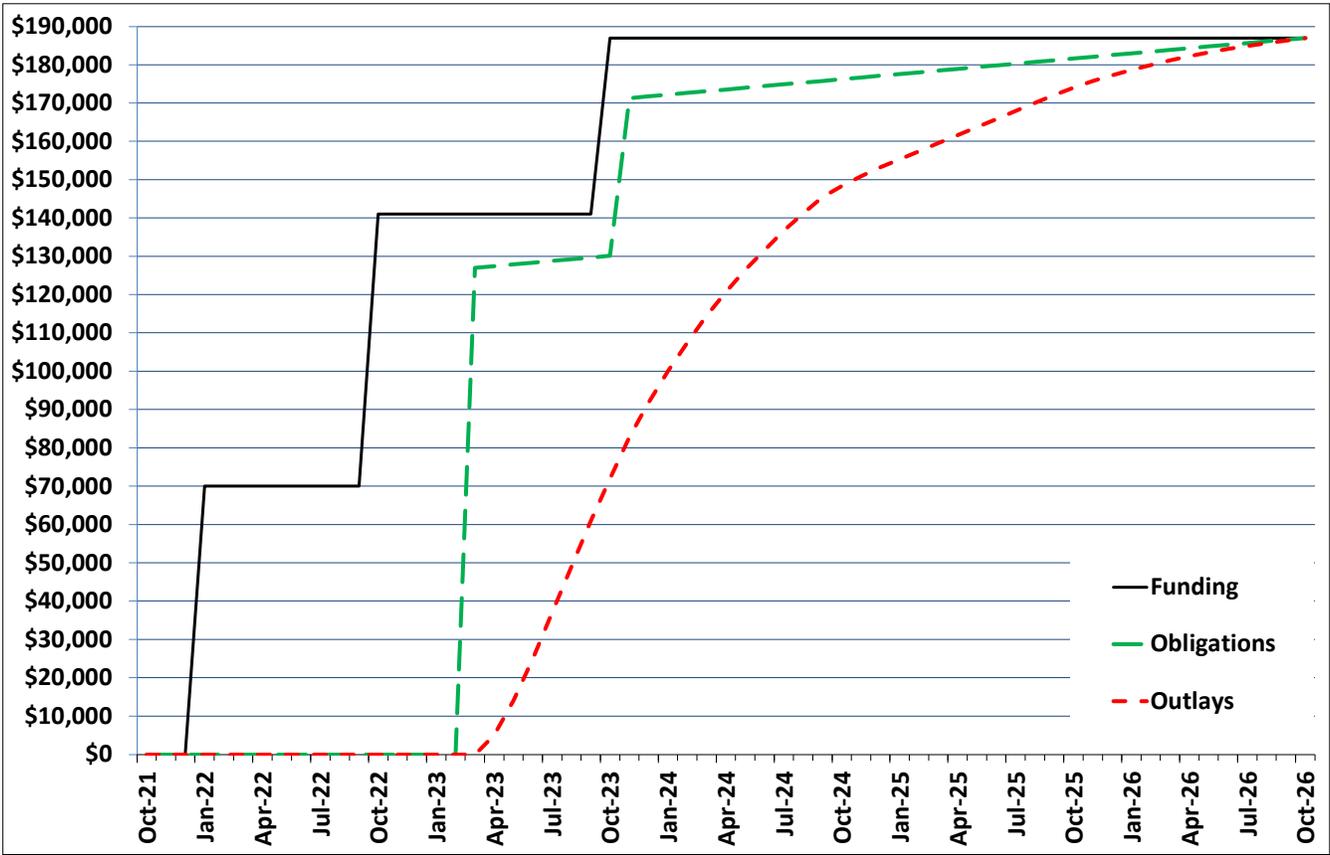
Chart Begin	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
Oct-21	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-21	-	-	-	-	-	-
Nov-21	-	-	-	-	-	-
Dec-21	-	-	-	-	-	-
Jan-22	70,000	70,000	-	-	-	-
Feb-22	-	70,000	-	-	-	-
Mar-22	-	70,000	-	-	-	-
Apr-22	-	70,000	-	-	-	-
May-22	-	70,000	-	-	-	-
Jun-22	-	70,000	-	-	-	-
Jul-22	-	70,000	-	-	-	-
Aug-22	-	70,000	-	-	-	-
Sep-22	-	70,000	-	-	-	-
Oct-22	71,000	141,000	-	-	-	-
Nov-22	-	141,000	-	-	-	-
Dec-22	-	141,000	-	-	-	-
Jan-23	-	141,000	-	-	-	-
Feb-23	-	141,000	-	-	-	-
Mar-23	-	141,000	126,970	126,970	-	-
Apr-23	-	141,000	449	127,419	5,000	5,000
May-23	-	141,000	449	127,868	9,000	14,000
Jun-23	-	141,000	449	128,317	11,000	25,000
Jul-23	-	141,000	449	128,766	12,000	37,000
Aug-23	-	141,000	449	129,215	12,000	49,000
Sep-23	-	141,000	449	129,664	12,000	61,000
Oct-23	46,000	187,000	449	130,113	10,900	71,900
Nov-23	-	187,000	41,159	171,272	10,900	82,800
Dec-23	-	187,000	449	171,721	9,000	91,800
Jan-24	-	187,000	449	172,170	8,200	100,000
Feb-24	-	187,000	449	172,619	7,500	107,500
Mar-24	-	187,000	449	173,068	6,900	114,400
Apr-24	-	187,000	449	173,517	6,300	120,700
May-24	-	187,000	449	173,966	5,800	126,500
Jun-24	-	187,000	449	174,415	5,300	131,800
Jul-24	-	187,000	449	174,864	4,900	136,700
Aug-24	-	187,000	449	175,313	4,500	141,200
Sep-24	-	187,000	449	175,762	4,200	145,400
Oct-24	-	187,000	449	176,211	2,900	148,300
Nov-24	-	187,000	449	176,660	2,600	150,900
Dec-24	-	187,000	449	177,109	2,300	153,200
Jan-25	-	187,000	449	177,558	2,100	155,300
Feb-25	-	187,000	449	178,007	2,100	157,400
Mar-25	-	187,000	449	178,456	2,100	159,500
Apr-25	-	187,000	449	178,905	2,100	161,600
May-25	-	187,000	449	179,354	2,100	163,700
Jun-25	-	187,000	449	179,803	2,100	165,800
Jul-25	-	187,000	449	180,252	2,100	167,900
Aug-25	-	187,000	449	180,701	2,100	170,000
Sep-25	-	187,000	449	181,150	2,100	172,100
Oct-25	-	187,000	449	181,599	1,900	174,000
Nov-25	-	187,000	449	182,048	1,700	175,700
Dec-25	-	187,000	449	182,497	1,500	177,200
Jan-26	-	187,000	449	182,946	1,400	178,600
Feb-26	-	187,000	449	183,395	1,300	179,900
Mar-26	-	187,000	449	183,844	1,200	181,100
Apr-26	-	187,000	449	184,293	1,100	182,200
May-26	-	187,000	449	184,742	1,000	183,200
Jun-26	-	187,000	449	185,191	900	184,100
Jul-26	-	187,000	449	185,640	800	184,900
Aug-26	-	187,000	449	186,089	700	185,600
Sep-26	-	187,000	449	186,538	700	186,300
Oct-26	-	187,000	449	187,000	700	187,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2022.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in March 2023 and contract completion October 2026; duration 44 months.

Helo Rescue Ops Maintenance Hangar, Inc 3, Kadena AB, Japan



1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE #1 JAPAN			4. PROJECT TITLE: PDI: THEATER A/C CORROSION CONTROL CTR, INC 2		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) Auth: 0 Appr: 42,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					203,630
AIRCRAFT CORROSION CONTROL (211-159)		SM	14,160	14,310	(202,630)
CYBERSECURITY FACILITY-RELATED CONTROL SYS		LS			(1,000)
SUPPORTING FACILITIES					71,015
SITE IMPROVEMENTS		LS			(26,284)
PAVEMENTS		LS			(10,515)
ENVIROMENTAL MITIGATION		LS			(5,344)
SPECIAL FOUNDATIONS		LS			(8,637)
UTILITIES COMMUNICATIONS		LS			(2,593)
ARCHAEOLOGICAL MONITORING		LS			(560)
BUILDING DEMOLITION		LS			(5,876)
		SM	2,830	3,957	(11,206)
PROJECT SUBTOTAL					274,645
CONTINGENCY COST (5%)					13,732
TOTAL CONTRACT COST					288,377
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					18,745
PROJECT TOTAL					307,122
ROUNDED TOTAL COST					307,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(2,550)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a corrosion control facility for painting large bodied aircraft. The facility consists of a single bay paint booth, single bay prep/wash hangar, and support spaces for painting and sanding operations. The facility will be constructed from cast-in-place concrete walls with a structural steel truss framing system to supporting a cast-in-place concrete roof. The project will include supporting facilities such as utilities, pavements, and site improvements to provide a complete and usable facility. The facility should be compatible with applicable United States Department of Defense, Air Force, and base design standards. This project will demolish Building 3542 (2,830 square meters). In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE #1 JAPAN			4. PROJECT TITLE: PDI: THEATER A/C CORROSION CONTROL CTR, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) Auth: 0 Appr: 42,000	
<p>loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense Anti-terrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 60 Tons</p>				
<p>11. REQUIREMENT: 14,160 SM ADEQUATE: 0 SM SUBSTANDARD: 2,830 SM</p> <p>PROJECT: Theater Aircraft Corrosion Control Center</p> <p>REQUIREMENT: An adequately sized and configured Aircraft Corrosion Control Facility is required to provide hangar space for corrosion treating, corrosion repairing, paint stripping and repainting of an entire aircraft and an environmentally controlled area to wash aircraft. The facility shall also provide space for the corrosion control shop preparation and drying areas, abrasive blasting rooms, paint booths for mixing and applying paint, tool storage lockers, bathroom and locker rooms, administrative areas, storage space and mechanical rooms. A separate Corrosion Control Hazardous Material Storage and Corrosion Control Utility Storage buildings shall be provided. Supporting facilities include, but is not limited to, site preparation and cultural asset mitigation, utilities, HVAC, fire protection system, communications, vehicular pavement and access roads, fencing, concrete apron, exterior lighting, concrete retaining wall, and rerouting of POL line.</p> <p>CURRENT SITUATION: The current corrosion control hangar does not have the proper environmental controls for sprayed paint. Paint is currently applied by roller which does not provide a consistent coating within corrosion control specifications and does not adhere as well, causing more frequent need for corrosion control and increased risk of corrosion. In addition the hangar that is currently used for corrosion control is a C-130 hangar, KC-135s and E-3s are not able to fit within the facility. The existing large corrosion control facilities are Buildings 3541 and 3542 which were built in 1965. Building 3541 has a Risk Assessment Code 3 and Fire Safety Deficiency Code II assigned to the facility. Due to its age, the facility is in a severely deteriorated condition. The concrete roof slab is spalling creating the potential for pieces of concrete to fall and injure personnel and damage high value assets. The wash rack cannot be used due to corroded piping. The</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE #1 JAPAN			4. PROJECT TITLE: PDI: THEATER A/C CORROSION CONTROL CTR, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) Auth: 0 Appr: 42,000	
<p>hangar doors and tracks are not operating due to corrosion. The ventilation system is inadequate to support fiberglass preparation and painting operations. The lighting system does not provide the illumination required for corrosion control activities. There are no lifeline cables. The fire suppression system is corroded and needs to be replaced. Building 3542 has a Risk Assessment Code 2 and Fire Safety Deficiency Code I assigned to the facility. Due to age, the HVAC system is not operating. Hangar doors and tracks are corroded and are not operating. The ventilation system is no longer functioning and is exposing personnel to hazardous materials during sanding and painting work. The facility also lacks a clean room and a fall arrest system. The fire suppression system is severely corroded. Due to these deficiencies, the facility has been designated a "regulated area" by the Base Safety Office. As a result, precautionary measures requiring additional manpower and resources to execute must be implemented to protect the health and safety of personnel. Military personnel are prohibited from working in the facility until the health and safety issues are corrected. Corrosion control operations are currently being accomplished by Department of Defense contractors.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, maintenance personnel will continue to be forced to work in an environment that is detrimental to health and safety. Aircraft will continue to be painted by inappropriate methods due to lack of proper environmental control. Due to the inadequacies of the facilities, corrosion control work will continue to slow down, thereby, causing delays in critical treatment of aircraft. This will have an adverse impact on the base's readiness posture and the capability to effectively support the flying mission in the Pacific theatre.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of UFC 1-200-02 is partially compliant</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE #1 JAPAN			4. PROJECT TITLE: PDI: THEATER A/C CORROSION CONTROL CTR, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) Auth: 0 Appr: 42,000	
<p>or not applicable. This project is eligible for host nation funding; however, the US Forces Command states the project has extremely little chance of being funded in the foreseeable future. This project does not fall within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The cost estimate was based on PACES and is in line with the Department of Defense Pricing Guide Parameters. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), and shall employ the standard facility design for Corrosion Control/Fuel Cell Maintenance Hangar Facility.</p> <p>18th Civil Engineer Group: DSN (315)-634-1807</p> <p>718th Civil Engineer Squadron: DSN (315)-634-0718</p> <p>Aircraft Corrosion Control Facility: 14,160 SM = 152,417 Square Feet;</p> <p>Demolition: 2,830 SM = 30,462 Square Feet.</p> <p>¥109.7015 = \$1</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE #1 JAPAN			4. PROJECT TITLE: PDI: THEATER A/C CORROSION CONTROL CTR, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) Auth: 0 Appr: 42,000	
12. SUPPLEMENTAL DATA				
a. Estimated Design Data:				
(1) Status				
(a) Type of Design			Design-Bid-Build	
(b) Dated Design Start			17-NOV-20	
(c) Parametric Cost Estimates used to develop costs			YES	
(d) Percent Complete as of 01 JAN 2023			100%	
(e) Date 35% Designed			02-AUG-21	
(f) Date Design Complete			28-OCT-22	
(g) Energy Study/Life-Cycle Analysis was/will be performed			YES	
(2) Basis				
(a) Standard or Definitive Design			YES	
(b) Where Design Was Most Recently Used			McConnell AFB	
(3) Total Cost (c) = (a) + (b) or (d) + (e)			(\$000)	
(a) Production of Plans and Specifications			17,400	
(b) All Other Design Costs			8,700	
(c) Total			26,100	
(d) Contract			21,750	
(e) In-house			4,350	
(4) Construction Contract Award			23-FEB	
(5) Construction Start			23-MAR	
(6) Construction Completion			28-AUG	
b. Equipment associated with this project provided from other appropriations:				
		FISCAL YEAR		
		APPROPRIATED		COST
EQUIPMENT NOMENCLATURE	PROCURING APPRO	OR REQUESTED	(\$000)	
FURNITURE FIXTURE & EQUIPMENT	3080	2028	2,350	
COMMUNICATIONS	3400	2028	200	

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION KADENA AIR BASE KADENA AIR BASE SITE #1 JAPAN		4. PROJECT TITLE: PDI: THEATER A/C CORROSION CONTROL CTR, INC 2	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) Auth: 0 Appr: 42,000
c. Title, Authorization, and Appropriations Summary:			
	Authorization (\$000)	Auth of Approp (\$000)	Approp (\$000)
FY2023 Enacted	307,000	77,000	77,000
FY2024 Budget Request	-----	42,000	42,000
Future Request	-----	188,000	188,000
Total	307,000		307,000

Project: PDI: Theater A/C Corrosion Control Ctr, Inc 2, Kadena AB, Japan

Project Spending Plan

As of: 2-Dec-22

All Cost in thousands (\$000)

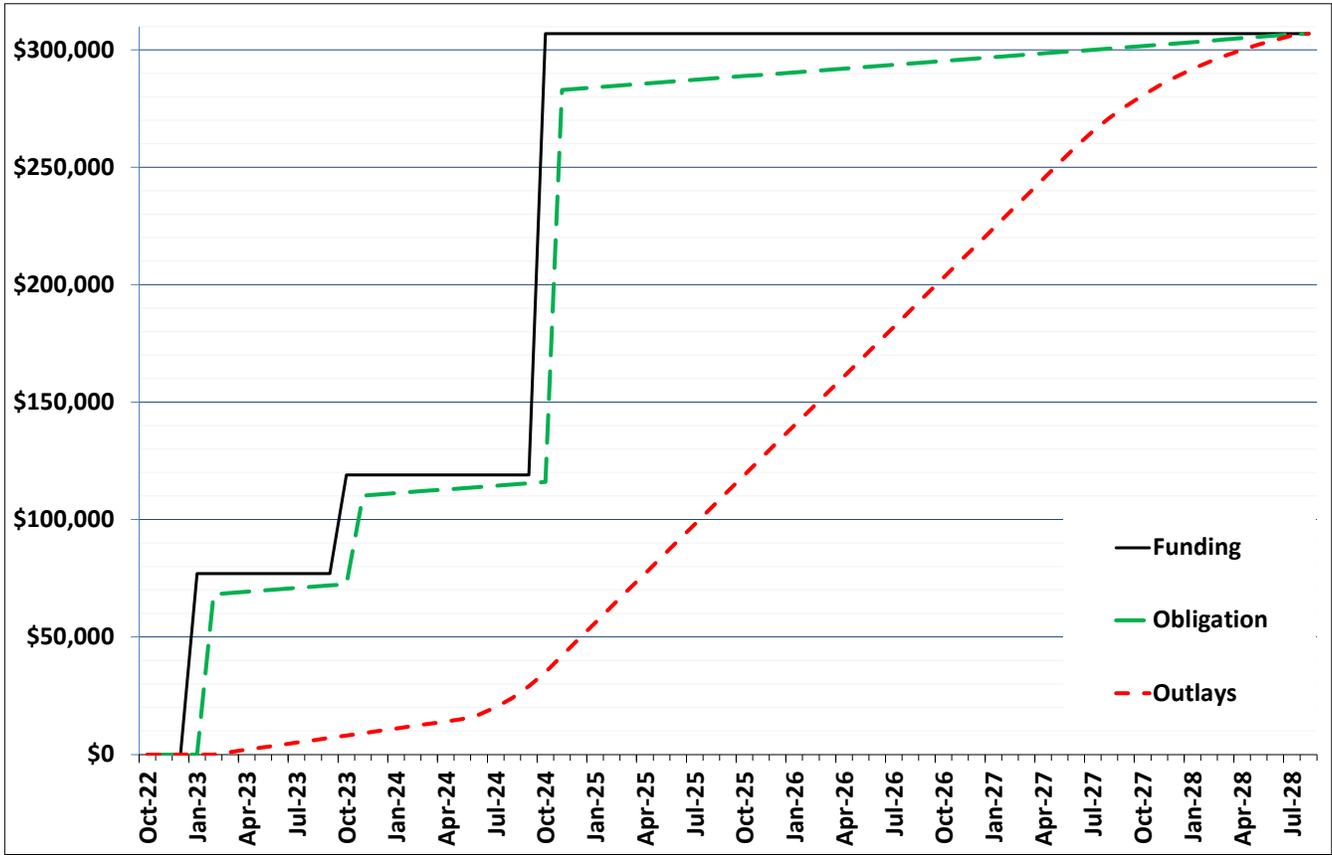
Chart Begin Oct-22	FUNDING (note 1)		OBLIGATION (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-22	-	-	-	-	-	-
Nov-22	-	-	-	-	-	-
Dec-22	-	-	-	-	-	-
Jan-23	77,000	77,000	-	-	-	-
Feb-23	-	77,000	68,145	68,145	-	-
Mar-23	-	77,000	535	68,680	1,000	1,000
Apr-23	-	77,000	535	69,215	1,000	2,000
May-23	-	77,000	535	69,750	1,000	3,000
Jun-23	-	77,000	535	70,285	1,000	4,000
Jul-23	-	77,000	535	70,820	1,000	5,000
Aug-23	-	77,000	535	71,355	1,000	6,000
Sep-23	-	77,000	535	71,890	1,000	7,000
Oct-23	42,000	119,000	535	72,425	1,000	8,000
Nov-23	-	119,000	37,705	110,130	1,000	9,000
Dec-23	-	119,000	535	110,665	1,000	10,000
Jan-24	-	119,000	535	111,200	1,000	11,000
Feb-24	-	119,000	535	111,735	1,000	12,000
Mar-24	-	119,000	535	112,270	1,000	13,000
Apr-24	-	119,000	535	112,805	1,000	14,000
May-24	-	119,000	535	113,340	1,000	15,000
Jun-24	-	119,000	535	113,875	2,000	17,000
Jul-24	-	119,000	535	114,410	3,000	20,000
Aug-24	-	119,000	535	114,945	4,000	24,000
Sep-24	-	119,000	535	115,480	5,000	29,000
Oct-24	188,000	307,000	535	116,015	6,000	35,000
Nov-24	-	307,000	166,915	282,930	7,000	42,000
Dec-24	-	307,000	535	283,465	7,000	49,000
Jan-25	-	307,000	535	284,000	7,000	56,000
Feb-25	-	307,000	535	284,535	7,000	63,000
Mar-25	-	307,000	535	285,070	7,000	70,000
Apr-25	-	307,000	535	285,605	7,000	77,000
May-25	-	307,000	535	286,140	7,000	84,000
Jun-25	-	307,000	535	286,675	7,000	91,000
Jul-25	-	307,000	535	287,210	7,000	98,000
Aug-25	-	307,000	535	287,745	7,000	105,000
Sep-25	-	307,000	535	288,280	7,000	112,000
Oct-25	-	307,000	535	288,815	7,000	119,000
Nov-25	-	307,000	535	289,350	7,000	126,000
Dec-25	-	307,000	535	289,885	7,000	133,000
Jan-26	-	307,000	535	290,420	7,000	140,000
Feb-26	-	307,000	535	290,955	7,000	147,000
Mar-26	-	307,000	535	291,490	7,000	154,000
Apr-26	-	307,000	535	292,025	7,000	161,000
May-26	-	307,000	535	292,560	7,000	168,000
Jun-26	-	307,000	535	293,095	7,000	175,000
Jul-26	-	307,000	535	293,630	7,000	182,000
Aug-26	-	307,000	535	294,165	7,000	189,000
Sep-26	-	307,000	535	294,700	7,000	196,000
Oct-26	-	307,000	535	295,235	7,000	203,000
Nov-26	-	307,000	535	295,770	7,000	210,000
Dec-26	-	307,000	535	296,305	7,000	217,000
Jan-27	-	307,000	535	296,840	7,000	224,000
Feb-27	-	307,000	535	297,375	7,000	231,000
Mar-27	-	307,000	535	297,910	7,000	238,000
Apr-27	-	307,000	535	298,445	7,000	245,000
May-27	-	307,000	535	298,980	7,000	252,000
Jun-27	-	307,000	535	299,515	7,000	259,000
Jul-27	-	307,000	535	300,050	6,300	265,300
Aug-27	-	307,000	535	300,585	5,670	270,970
Sep-27	-	307,000	535	301,120	5,100	276,070
Oct-27	-	307,000	535	301,655	4,590	280,660
Nov-27	-	307,000	552	302,203	4,130	284,790
Dec-27	-	307,000	552	302,751	3,720	288,510
Jan-28	-	307,000	552	303,299	3,350	291,860
Feb-28	-	307,000	552	303,847	3,020	294,880
Mar-28	-	307,000	552	304,395	2,720	297,600
Apr-28	-	307,000	552	304,943	2,450	300,050
May-28	-	307,000	552	305,491	2,210	302,260
Jun-28	-	307,000	552	306,039	1,990	304,250
Jul-28	-	307,000	552	306,587	1,790	306,040
Aug-28	-	307,000	417	307,000	960	307,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2023.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in February 2023 and contract completion August 2028; duration 67 months.

PDI: Theater A/C Corrosion Control Center, Inc 2, Kadena AB, Japan



1. COMPONENT AIR FORCE		FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION RYGGE AIR STATION, NORWAY					4. COMMAND UNITED STATES AIR FORCES IN EUROPE			5. AREA CONSTRUCTION COST INDEX 1.84			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		0	0	0	0	0	0	5	50	0	55
b. END FY		0	0	0	0	0	0	5	50	0	55
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										0	
b. INVENTORY TOTAL AS OF 30-SEP-22										0.00	
c. AUTHORIZATION NOT YET IN INVENTORY										22,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										119,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										62,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										8,500.00	
h. GRAND TOTAL										211,500.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
422-264	EDI: MUNITIONS STORAGE AREA		3,869 SM		31,000	05/19	01/21				
442-758	EDI: DABS-FEV STORAGE		14,636 SM		88,000	06/19	06/23				
9. FUTURE PROJECTS 442-758 EDI: Quick Reaction Alert Hangars (21,813 SM/\$62,000)											
10. MISSION OR MAJOR FUNCTIONS Rygge Air Station is the primary sources for U.S. European Command (EUCOM) and its Service Components' ability to respond to an evolving European security environment.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION RYGGE AIR BASE NORWAY		4. PROJECT TITLE: EDI: MUNITIONS STORAGE AREA			
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER ENRY203001	8. PROJECT COST (\$000) 31,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					18,891
STORAGE IGLOO		SM	3,869	4,818	(18,641)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(250)
SUPPORTING FACILITIES					8,321
UTILITIES		LS			(749)
SITE IMPROVEMENTS		LS			(5,991)
EARTH BERM		LS			(1,581)
SUBTOTAL					27,212
CONTINGENCY (5.0%)					1,361
TOTAL CONTRACT COST					28,573
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)					2,086
TOTAL REQUEST					30,659
TOTAL REQUEST (ROUNDED)					31,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct ammunition storage magazines to accommodate a total Net Explosive Weight of 3,000,000 pounds. A standard, ammunition storage magazine design which supports up to a maximum capacity of 165,000 pounds Net Explosive Weight will be used for twenty magazine/bunkers. Supporting facilities include concrete munitions assembly pads, gravel roads, berm areas, lighting, security fencing surmounted by barbed wire, and utility connections for communications and electrical for a complete and usable facility. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense anti terrorism/force protection requirements per Unified Facilities Criteria 1-010-01. This project supports Overseas Operations Costs (OOC) requirements. Air Conditioning: 0 Tons					
11. REQUIREMENT: 3,869 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM PROJECT: EDI: MUNITIONS STORAGE AREA REQUIREMENT: This project is required to comply with the European Deterrence Initiative, part of the Consolidated and further Continuing Appropriations Act of 2015 in support of Atlantic Resolve, which includes military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for training and combat operations is					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION RYGGE AIR BASE NORWAY		4. PROJECT TITLE: EDI: MUNITIONS STORAGE AREA	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER ENRY203001	8. PROJECT COST (\$000) 31,000
<p>substantial infrastructure, including force protection and antiterrorism measures, at key locations to support military activities. This is not a tenant or supported service requirement</p> <p>CURRENT SITUATION: Norway is a North Atlantic Treaty Organization member state that is prepared to provide real estate to U.S. forces that are used for forward position of materials and equipment. Prepositioning of equipment supports tactical missions and contingency support operations within Europe, Africa, and the Middle East; however, host nation facilities do not have the capacity to support storage of US ammunition. Zero percent of the total U.S. requirement is available for this new mission.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, the capability to support flexible deterrent options will be reduced, support to European Command's Intermediate Staging Base mission to Department of Defense, allies, and partners reception and staging activities will be severely limited, and access to United States / North Atlantic Treaty Organization ammunition storage facilities will not be guaranteed. These limitations will impede equipment distribution; reduce staging presence; reduce Atlantic Resolve support; and impact United States responsiveness to bilateral and multilateral exercises and training missions.</p> <p>ADDITIONAL: This project is included in the European Deterrence Initiative. The project has been coordinated with the Host Nation and meets Host Nation and Air Force requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will employ a standard facility design. The Standard Design is pre-approved by the Defense Department Explosives Safety Board 7-bar USACE Modular Storage Magazine, Storage Magazine Box Type European Version 421-80-13 with Sliding Door. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements and Bi-SC Directive 85-5 North Atlantic Treaty Organization Approved Criteria and Standards for Airfields. Sustainable principles, which include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems and renewable energy generating systems whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. An Economic Analysis was not performed because there is only one method possible to accomplish the objective. An Economic Analysis Waiver is in progress. Elements of this program are not currently eligible for</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION RYGGE AIR BASE NORWAY		4. PROJECT TITLE: EDI: MUNITIONS STORAGE AREA	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER ENRY203001	8. PROJECT COST (\$000) 31,000
<p>North Atlantic Treaty Organization Security Investment Program funding. This project will be submitted for North Atlantic Treaty Organization pre-financing. The supporting facilities cost exceeds 25% of the primary facilities cost due to the extensive site improvements required before the construction of the Igloos. This project does not fall within or partly within the 100-year flood plain.</p> <p>BCE commercial phone number +49 6371-47-6773.</p> <p>Storage Igloo: 3,869 Square Meters= 41,646 Square Feet</p> <p>FOREIGN CURRENCY BUDGET RATE USED: FCF Budget Rate Used: KRONE 8.5634</p> <p>JOINT USE CERTIFICATION: This project has been considered for joint use potential. These facilities can be used by other components on an 'as available' basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION RYGGE AIR BASE NORWAY		4. PROJECT TITLE: EDI: MUNITIONS STORAGE AREA	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER ENRY203001	8. PROJECT COST (\$000) 31,000
12. SUPPLEMENTAL DATA a. Estimated Design Data: (1) Status: (a) Type of Design Design-Bid-Build (b) Date Design Started 01-MAY-19 (c) Parametric Cost Estimates used to develop costs YES (d) Percent Complete as of 01 JAN 2023 100% (e) Date 35% Designed 13-NOV-19 (f) Date Design Complete 21-JAN-21 (g) Energy Study/Life-Cycle analysis was performed YES (2) Basis: (a) Standard or Definitive Design - YES (b) Where Design Was Most Recently Used - CAMPPIA TURZII, ROMANIA (3) Total cost = (a) + (b) and (d) + (e) (\$000) (a) Production of Plans and Specifications 1,860 (b) All Other Design Costs 1,650 (c) Total 3,510 (d) Contract 2,925 (e) In-house 585 (4) Construction Contract Award 24-MAY (5) Construction Start 24-JUN (6) Construction Completion 26-JUN b. Equipment associated with this project provided from other appropriations: N/A			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RYGGE AIR STATION NORWAY		4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER ENRY200001	8. PROJECT COST (\$000) 88,000	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				47,140
WAREHOUSE SUPPLY AND EQUIPMENT BASE (442-758)	SM	14,636	1,588	(23,242)
CONTROLLED HUMIDITY WAREHOUSE (442-421)	SM	6,455	1,998	(12,897)
VEHICLE MAINTENANCE SHOP (214-425)	SM	1,977	2,610	(5,160)
HEATING FACILITY BUILDING (821-117)	SM	229	14,334	(3,282)
WATER SUPPLY BUILDING (841-169)	SM	123	9,714	(1,195)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(1,364)
SUPPORTING FACILITIES				30,539
UTILITIES	LS			(10,075)
SITE PREPARATION	LS			(5,500)
PAVEMENTS	LS			(5,500)
SITE IMPROVEMENTS	LS			(9,464)
SUBTOTAL				77,679
CONTINGENCY (5.0%)				3,884
TOTAL CONTRACT COST				81,563
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				5,954
TOTAL REQUEST				87,517
TOTAL REQUEST (ROUNDED)				88,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
10. DESCRIPTION OF PROPOSED WORK: Construct controlled humidity warehouses, supply and equipment warehouses, vehicle fueling stations, a vehicle maintenance shop, and supporting infrastructure. Facilities will consist of structural metal frames, metal panel walls and roof, and concrete foundations. Facilities will provide materiel and vehicle storage, administrative and maintenance support for the Deployable Air Base Systems - Facilities, Equipment and Vehicles assets. The facilities include overhead bridge cranes, lightning protection, overvoltage protection, closed-circuit television, and information systems connectivity. Supporting facilities include vehicle parking; security fencing with gate; supply and equipment sheds and depots; material processing areas for hazardous materials and petroleum oil and lubricants; loading and unloading areas; environmental mitigation; site improvements (landscaping, grading, and paving); and site utility systems (electrical, communications, water sanitary sewer, and storm water) for a complete and usable facilities. Facilities will be designed as				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RYGGE AIR STATION NORWAY		4. PROJECT TITLE EDI: DABS-FEV STORAGE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER ENRY200001	8. PROJECT COST (\$000) 88,000
<p>permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Anti terrorism/Force Protection requirements per Unified Facility Criteria 4-010-01 and Unified Facilities Criteria 1-200-02. This project supports Overseas Operations Costs (OOC) requirements. Air Conditioning: 90 Tons</p>			
<p>11. Requirement: 14,636 SM Adequate: 0 SM Substandard: 0 SM</p> <p>PROJECT: EDI: DABS-FEV STORAGE</p> <p>REQUIREMENT: This project is in support of the European Deterrence Initiative, which includes military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for training and operations is infrastructure at key locations to support military activities. To support this initiative, Rygge Air Station requires humidity-controlled, ventilated, and heated storage spaces for Deployable Air Base Systems - Facilities, Equipment and Vehicles assets, as well as supportive administrative and maintenance spaces. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: No facilities are present at Rygge Air Station that meet the requirements of this project. The high-humidity climate is not compatible with storing the required material and vehicles outside of a humidity- controlled environment.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Rygge Air Station will not have readily available storage for Deployable Air Base materiel and vehicles. The lack of properly sized and configured humidity-controlled and ventilated storage spaces will force United States Air Forces Europe to make use of available open storage areas and expedient shelters that will not fully protect these valuable assets from extreme climatic condition variations. Exposure to excessive moisture will degrade and potentially damage the deployable air base systems materiel and vehicles. Consequently, urgent repairs to restore the materiel and vehicles to the operability standards will cause a high risk of delaying employment. This project will improve United States Air Forces Europe's mission readiness by ensuring that the deployable air base systems vehicles and materiel are protected from the elements and maintained in a condition of constant readiness.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements, as well as Bi-Strategic Commands Directive 85-5, North Atlantic Treaty Organization Approved Criteria and Standards for Airfields. The Supporting Facilities cost exceed 25% of the Primary Facilities costs due to the amount of site preparation and utility work required. This design shall conform to</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RYGGE AIR STATION NORWAY		4. PROJECT TITLE EDI: DABS-FEV STORAGE	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER ENRY200001	8. PROJECT COST (\$000) 88,000
<p>criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plan. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. An Economic Analysis was not performed because after an analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction. A Waiver to an Economic Analysis has been approved for this project. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not currently part of an approved North Atlantic Treaty Organization capability package, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if the project becomes a North Atlantic Treaty Organization capability.</p> <p>Base Civil Engineer commercial phone number +49 6371-47-6773</p> <p>Warehouse Supply And Equipment Base: 14,636 SM = 157,541 Square Feet; Controlled Humidity Warehouse: 6,455 SM = 69,481 Square Feet; Vehicle Maintenance Shop: 1,977 SM = 21,280 Square Feet; Heating Facility Building: 229 SM = 2,465 Square Feet; Water Supply Building: 123 SM = 1,324 Square Feet. Foreign Currency Fluctuation Budget Rate Used: 1 USD / 8.5634 KRONE</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RYGGE AIR STATION NORWAY		4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER ENRY200001	8. PROJECT COST (\$000) 88,000	
12. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design	Design-Bid-Build			
(b) Date Design Started	21-JUN-19			
(c) Parametric Cost Estimates Used to develop costs	YES			
(d) Percent Complete as of 01 JAN 2023	95%			
(e) Date 35% Designed	20-NOV-19			
(f) Date Design Complete	15-JUN-23			
(g) Energy Study/Life-Cycle analysis was/will be performed	YES			
(2) Basis:				
(a) Standard or Definitive Design	NO			
(b) Where Design Was Most Recently Used	N/A			
(3) Total Cost (c) = (a) + (b) or (d) + (e)	(\$000)			
(a) Production of Plans and Specifications	3,522			
(b) All Other Design Costs	1,814			
(c) Total	5,336			
(d) Contract	4,002			
(e) In-house	1,334			
(4) Construction Contract Award	24-AUG			
(5) Construction Start	24-SEP			
(6) Construction Completion	26-FEB			
b. Equipment associated with this project provided from other appropriations:				
		FISCAL YEAR		
		APPROPRIATED		
		OR REQUESTED		
		COST		
		(\$000)		
EQUIPMENT NOMENCLATURE	PROCURING APPROP			
N/A				

1. COMPONENT AIR FORCE			FY 2024 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20230301			
3. INSTALLATION AND LOCATION UNSPECIFIED WORLDWIDE LOCATIONS (BASA AB, PI)						4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 1.22			
6. PERSONNEL			(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22			0	0	0	0	0	0	0	0	0	0
b. END FY			0	0	0	0	0	0	0	0	0	0
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE										0		
b. INVENTORY TOTAL AS OF 30-SEP-22										0.00		
c. AUTHORIZATION NOT YET IN INVENTORY										0.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										35,000.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00		
g. REMAINING DEFICIENCY										0.00		
h. GRAND TOTAL										35,000.00		
8. PROJECTS REQUESTED IN THIS PROGRAM												
a. CATEGORY						b. COST (\$000)		c. DESIGN STATUS				
(1) CODE	(2) PROJECT TITLE				(3) SCOPE				(1) START	(2) COMPLETE		
113-321	PDI: TRANSIENT AIRCRAFT PARKING APRON				58,095 SM		35,000		05/22	11/23		
9. FUTURE PROJECTS N/A												
10. MISSION OR MAJOR FUNCTIONS Basa Air Base is located about 40 miles northwest of metro Manila and has historically been the base for the Philippines' fighter squadrons and elite acrobatic squadrons. The Enhanced Defense Cooperation Agreement between US and Philippines bolsters the United States/Philippine alliance and further assists the capacity-building of the Armed Forces of the Philippines to enable them to strengthen defense capabilities and focus on external threats. The United States Air Force is actively working with allies and partners in a commitment to enhancing stability in the Indo-Pacific region by promoting security cooperation, encouraging peaceful development, preparing for contingencies, and deterring aggression. Basa Air Base is a force multiplier, encompassing key bilateral training operations in the Indo-Pacific region.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A												

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION BASA AIR BASE PHILIPPINES			4. PROJECT TITLE PDI: TRANSIENT AIRCRAFT PARKING APRON		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER AYHN239001	8. PROJECT COST (\$000) 35,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					17,658
APRON (113-321)		SM	58,095	290	(16,848)
SHOULDER, PAVED (116-642)		SM	10,913	70	(764)
TAXIWAY (112-211)		SM	365	126	(46)
SUPPORTING FACILITIES					12,705
SITE IMPROVEMENTS		LS			(5,602)
UTILITIES		LS			(1,972)
APRON MARKINGS AND SIGNAGE		LS			(806)
MUNITIONS AND EXPLOSIVES OF CONCERN		LS			(4,000)
CLEARANCE ENVIRONMENTAL REMEDIATION		LS			(150)
ARCHEOLOGICAL MONITORING		LS			(75)
PAVEMENTS		LS			(100)
SUBTOTAL					30,363
CONTINGENCY (5.0%)					1,518
TOTAL CONTRACT COST					31,881
SUPERVISION, INSPECTION AND OVERHEAD (9.0%)					2,869
POST AWARD CONSTRUCTION SERVICES		LS			478
TOTAL REQUEST					35,228
TOTAL REQUEST (ROUNDED)					35,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(100)
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a parking apron, shoulders, and taxiway connected to the Basa Air Base airfield. The parking apron will be sized to accommodate a variety of United States Air Force aircraft. Connecting taxiways will connect the apron to an existing taxiway. Modifications to existing surfaces and utilities/lighting will be required. Materials will include a combination of Portland cement concrete and hot-mix asphalt for the apron, shoulders, and taxiways. The project will include all necessary supporting facilities for a complete and usable facility.</p> <p>This project is at a host nation air base and will be operated by the host nation and will be designed in accordance with international airfield regulations, orders, and circulars, and Unified Facilities Criteria 1-200-01, Host Nation Facilities in Support of Military Operations. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION BASA AIR BASE PHILIPPINES		4. PROJECT TITLE PDI: TRANSIENT AIRCRAFT PARKING APRON		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER AYHN239001	8. PROJECT COST (\$000) 35,000	
<p>11. Requirement: 58,095 SM Adequate: 0 SM Substandard: 0 SM</p> <p>PROJECT: Pacific Deterrence Initiative (PDI): Transient Aircraft Parking Apron at Basa Air Base, Philippines</p> <p>REQUIREMENT: The United States Air Force proposes to construct a new parking apron along an existing taxiway at Basa Air Base to support United States Air Force aircraft. The apron will be separate from host nation aprons and include access to nearby facilities being used by the United States. Because the apron will be integrated into the host nation's airfield it will need to conform to host nation standards such as apron marking and signage, control systems, fire protection systems, and utilities. The airfield was used during World War II and therefore special procedures will be needed during construction to monitor and clear munitions and explosives of concern.</p> <p>The proposed project is required because there is not an existing location at Basa Air Base to accommodate the parking of United States Air Force/DoD aircraft to support the training and modernization agreements between the United States and the Philippines. These facilities fully support United States Indo-Pacific Command requirements.</p> <p>CURRENT SITUATION: The United States and Philippines have entered into a series of agreements and arrangements including the Mutual Defense Treaty, Visiting Forces Agreement (VFA), Enhanced Defense Cooperation Agreement (EDCA), and the Philippines Air Force Flight Plan 2028. The EDCA establishes "Agreed Locations" and authorize United States forces to construct facilities to support United States requirements, expand opportunities for bilateral training, and assist the Armed Forces of the Philippines in modernizing its territorial defense. Improvements are needed to the existing airfield infrastructure at Basa Air Base. The Philippines Air Force is undertaking many modernization efforts for facilities and operations, but they do not have aircraft parking apron space sufficient for United States aircraft.</p> <p>IMPACT IF NOT PROVIDED: The United States Enhanced Defense Cooperation Agreement with the Government of the Philippines, and other agreements, are intended to bolster our alliance in this strategically important region to increase interoperability and build their capacity for territorial defense. Without this apron the United States will not have the facilities needed to train and work alongside the Philippines Air Force to accomplish the bilateral training necessary to build the capability of the Philippine Air Force and modernize the Alliance as a whole.</p> <p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, "Facility Requirements." This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Naval Facilities Engineering Command. A Waiver to an Economic Analysis is being staffed for approval for this project.</p> <p>Sustainable principles, to include life-cycle cost-effective practices, will be</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION BASA AIR BASE PHILIPPINES		4. PROJECT TITLE PDI: TRANSIENT AIRCRAFT PARKING APRON	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER AYHN239001	8. PROJECT COST (\$000) 35,000
<p>integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 to the extent compatible with host nation facility requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.</p> <p>This project does not fall within or partly within the 100-year flood plain.</p> <p>Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>The supporting facility costs exceed 25% of the primary facility cost due to the requirement to address potential munitions and explosives of concern as well as extensive utility work and site improvements required to construct the apron.</p> <p>Base Civil Engineer: (808) 449-2870</p> <p>Parking Apron (113-321): 58,095 Square Meters = 625,329 Square Feet</p> <p>Shoulder (116-642): 10,913 Square Meters = 117,467 Square Feet</p> <p>Taxiway (112-211): 365 Square Meters = 3,929 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE		FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023	
3. INSTALLATION, SITE AND LOCATION BASA AIR BASE PHILIPPINES			4. PROJECT TITLE PDI: TRANSIENT AIRCRAFT PARKING APRON		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER AYHN239001	8. PROJECT COST (\$000) 35,000		
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design		Design-Bid-Build			
(b) Date Design Started		15-MAY-22			
(c) Parametric Cost Estimates Used to develop costs		YES			
(d) Percent Complete as of 01 JAN 2023		35%			
(e) Date 35% Designed		10-NOV-22			
(f) Date Design Complete		17-NOV-23			
(g) Energy Study/Life-Cycle analysis was/will be performed		YES			
(2) Basis:					
(a) Standard or Definitive Design		NO			
(b) Where Design Was Most Recently Used		Not Applicable			
(3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000)					
(a) Production of Plans and Specifications		1,800			
(b) All Other Design Costs		900			
(c) Total		2,700			
(d) Contract		2,250			
(e) In-house		450			
(4) Construction Contract Award		24-JUN			
(5) Construction Start		24-AUG			
(6) Construction Completion		27-AUG			
b. Equipment associated with this project provided from other appropriations:					
		PROCURING		FISCAL YEAR	
EQUIPMENT NOMENCLATURE		APPROP		APPROPRIATED	
				OR REQUESTED	
COMMUNICATION EQUIPMENT		3400		2025	
				COST	
				(\$000)	
				100	

1. COMPONENT AIR FORCE			FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20230301			
3. INSTALLATION AND LOCATION MORON AIR BASE, SPAIN						4. COMMAND UNITED STATES AIR FORCES IN EUROPE			5. AREA CONTRUCTION COST INDEX 1.21			
6. PERSONNEL			(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22			9	147	324	0	0	0	56	268	29	833
b. END FY			9	145	328	0	0	0	58	275	30	845
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE										2,418		
b. INVENTORY TOTAL AS OF 30-SEP-22										1,135,140.00		
c. AUTHORIZATION NOT YET IN INVENTORY										46,042.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										26,000.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										141,000.00		
g. REMAINING DEFICIENCY										120,700.00		
h. GRAND TOTAL										1,468,882.00		
8. PROJECTS REQUESTED IN THIS PROGRAM												
a. CATEGORY						b. COST (\$000)		c. DESIGN STATUS				
(1) CODE	(2) PROJECT TITLE				(3) SCOPE				(1) START	(2) COMPLETE		
422-264	EDI: MUNITIONS STORAGE AREA				3,510 SM		26,000		04/20	06/22		
9. FUTURE PROJECTS												
211-173 EDI: WIDE FRAME MAINTENANCE HANGAR (TBD / \$70,000)												
124-135 EDI: INCREASE FUEL STORAGE, ISSUE & RECEIPT (TBD/ \$71,000)												
10. MISSION OR MAJOR FUNCTIONS												
The mission of Moron Air Base is to provide expeditionary combat support and expandable forward operating base to support transient/bed-down of aircraft operations; to provide the staging of aircraft and personnel in support of US and NATO plans, exercises and contingency operations; and to provide Base Operating Support to tenant units.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES												
N/A												

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION MORON AIR BASE MORON AB SITE # 1 SPAIN		4. PROJECT TITLE: EDI: MUNITIONS STORAGE AREA			
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER QUUG201012	8. PROJECT COST (\$000) 26,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					17,274
STORAGE IGLOO		SM	3,510	4,850	(17,024)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(250)
SUPPORTING FACILITIES					5,734
UTILITIES		LS			(2,450)
SITE IMPROVEMENTS		LS			(1,871)
PAVEMENTS		LS			(1,413)
SUBTOTAL					23,008
CONTINGENCY (5.0%)					1,150
TOTAL CONTRACT COST					24,158
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)					1,764
TOTAL REQUEST					25,922
TOTAL REQUEST (ROUNDED)					26,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(300)
10. DESCRIPTION OF PROPOSED CONSTRUCTION:					
<p>Construct a Munitions Storage Area expansion including fifteen Earth Covered Magazines with 7-bar Structural Strength Designation for Standard Series 421-80-13 Modular Storage Magazines. Supporting facilities include lightning protection; site work (landscaping, grading, paving); site improvements for security fencing, entry control gates, berm surrounding the Explosives Operating Location, secondary roadway access connecting the munitions storage area to the flight line, and site utility systems (electrical, storm water, and communications for intrusion detection system connection) for a complete and usable facility. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense anti-terrorism/force protection requirements per Unified Facilities Criteria 1-010-01. This project supports Overseas Operations Costs (OOC) requirements</p> <p>Air Conditioning: 0 Tons</p>					

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION MORON AIR BASE MORON AB SITE # 1 SPAIN		4. PROJECT TITLE: EDI: MUNITIONS STORAGE AREA		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER QUUG201012	8. PROJECT COST (\$000) 26,000	
11. REQUIREMENT: 3,510 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM				
PROJECT: EDI: MUNITIONS STORAGE AREA				
<p>REQUIREMENT: This project is required to enhance mission-readiness and expand munitions storage capabilities at Moron Air Base. A key enabler for training and combat operations is substantial infrastructure, including munitions storage capabilities at key locations, promoting a quick response and positioning of forces within prescribed response times. Expansion of munitions storage and operations facilities is required to accommodate additional munitions to meet United States Air Force in Europe requirements. The expanded munitions storage area will support increased regional munitions operational capabilities, supporting the European Deterrence Initiative mission of providing military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. This is not a tenant or supported service requirement.</p>				
<p>CURRENT SITUATION: The existing United States Air Force munitions storage area is comprised of earth covered magazines, opening storage modules, an explosive operations location, storage operations facilities, and above ground magazines. The existing munitions storage area is fully utilized for current United States Air Force in Europe munitions storage and operations requirements. There are no munitions storage facilities available to accommodate additional munitions storage requirements. The Spanish Air Force munitions storage area is fully dedicated to Spanish munitions storage operations and is not available to accommodate additional munitions storage requirements.</p>				
<p>IMPACT IF NOT PROVIDED: If this project is not provided, adequate munitions storage facilities will not be available to the Department of Defense at Moron Air Base and United States forces will not be able to support European Deterrence Initiative plans or directives, nor increase training, tactical missions, or contingency support operations. Without the capability to store, maintain, and build up munitions, responsiveness for bilateral and multilateral exercises and training missions will be compromised. If increased/enhanced munitions operations are to occur at the installation, outdoor storage will be the only option.</p>				
<p>According to Air Force Manual 91-201, Explosives Safety Standards, outdoor storage is considered a temporary expedient and only used when approved by the</p>				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION MORON AIR BASE MORON AB SITE # 1 SPAIN		4. PROJECT TITLE: EDI: MUNITIONS STORAGE AREA	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER QUUG201012	8. PROJECT COST (\$000) 26,000
<p>Major Command. Any munitions brought to the installation will expose the entire installation and surrounding community to the threat of accidental detonation. The lack of adequate munition storage facilities that meet the required United States and North Atlantic Treaty Organization explosive safety siting criteria will impede theater presence by impairing mission capability, readiness, and contingency support to ongoing and future operations within United States Air Force in Europe's area of responsibility.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, as well as Bi-Strategic Commands Directive 85-5, North Atlantic Treaty Organization Approved Facilities Standards. This project will comply with Unified Facilities Criteria 4-420-01 Ammunition and Explosives Storage Magazines, Allied Ammunition Storage and Transport Publication, North Atlantic Treaty Organization Guidelines for the Storage of Military Ammunition and Explosives, and Department of Defense anti-terrorism/force protection requirements per Unified Facilities Criteria 4-010-01, Department of Defense Minimum Anti-terrorism Standards for Buildings. The site plan will be developed in accordance with applicable criteria and submitted for Department of Defense Explosive Safety Board approval. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and will employ a standard facility design. The Standard Design is pre-approved by the Defense Department Explosives Safety Board 7-bar USACE Modular Storage Magazine, Storage Magazine Box Type European Version 421-80-13 with Sliding Door. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. An Economic Analysis waiver is in progress. The Supporting Facilities cost exceeds 25% of the Primary Facilities cost due to extensive utilities, site improvements, & pavements required to make this a complete and usable facility. This project does not fall within or partly within the 100-year flood plain.</p> <p>Sustainable principles, which include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems and renewable energy generating systems whenever life-cycle cost effective is selected as the reason any</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION MORON AIR BASE MORON AB SITE # 1 SPAIN		4. PROJECT TITLE: EDI: MUNITIONS STORAGE AREA	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER QUUG201012	8. PROJECT COST (\$000) 26,000
<p>requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable.</p> <p>Storage Igloo: 3,510 Square Meters = 37,781 Square Feet</p> <p>Base Civil Engineer commercial phone number +34 95-584-8604</p> <p>FOREIGN CURRENCY BUDGET RATE USED: FCF Budget Rate Used: EURO-DOLLAR 0.8390</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not eligible for infrastructure common funding, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if eligibility is established.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023																																										
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<p>12. SUPPLEMENTAL DATA</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Type of Design</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td>20-APR-20</td> </tr> <tr> <td>(c) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023</td> <td>100%</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>21-APR-21</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>21-JUN-22</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>YES</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td>CAMPPIA TURZII, ROMANIA</td> </tr> </table> <p>(3) Total cost = (a) + (b) and (d) + (e) (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>1,555</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>778</td> </tr> <tr> <td>(c) Total</td> <td>2,333</td> </tr> <tr> <td>(d) Contract</td> <td>1,944</td> </tr> <tr> <td>(e) In-house</td> <td>389</td> </tr> </table> <p>(4) Construction Contract Award 24-FEB</p> <p>(5) Construction Start 24-MAR</p> <p>(6) Construction Completion 26-JAN</p> <p>b. Equipment associated with this project provided from other appropriations:</p> <table border="0"> <thead> <tr> <th rowspan="2">EQUIPMENT NOMENCLATURE</th> <th rowspan="2">PROCURING APPROP</th> <th colspan="2">FISCAL YEAR</th> </tr> <tr> <th>APPROPRIATED OR REQUESTED</th> <th>COST (\$000)</th> </tr> </thead> <tbody> <tr> <td>INTRUSION DETECTION SYS EQUIP</td> <td>3400</td> <td>2026</td> <td>200</td> </tr> <tr> <td>EMERGENCY GENERATOR</td> <td>3400</td> <td>2026</td> <td>100</td> </tr> </tbody> </table>				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	20-APR-20	(c) Parametric Cost Estimates used to develop costs	YES	(d) Percent Complete as of 01 JAN 2023	100%	(e) Date 35% Designed	21-APR-21	(f) Date Design Complete	21-JUN-22	(g) Energy Study/Life-Cycle analysis was performed	YES	(a) Standard or Definitive Design -	YES	(b) Where Design Was Most Recently Used -	CAMPPIA TURZII, ROMANIA	(a) Production of Plans and Specifications	1,555	(b) All Other Design Costs	778	(c) Total	2,333	(d) Contract	1,944	(e) In-house	389	EQUIPMENT NOMENCLATURE	PROCURING APPROP	FISCAL YEAR		APPROPRIATED OR REQUESTED	COST (\$000)	INTRUSION DETECTION SYS EQUIP	3400	2026	200	EMERGENCY GENERATOR	3400	2026	100
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1. COMPONENT AIR FORCE			FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION RAF FAIRFORD, UNITED KINGDOM						4. COMMAND UNITED STATES AIR FORCES IN EUROPE			5. AREA CONTRUCTION COST INDEX 1.19			
6. PERSONNEL			(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
			OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22			5	15	70	0	0	0	7	50	44	191
b. END FY			25	190	95	0	0	0	15	142	37	504
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE										1,976		
b. INVENTORY TOTAL AS OF 30-SEP-22										793,286.00		
c. AUTHORIZATION NOT YET IN INVENTORY										139,600.00		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										47,000.00		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00		
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00		
g. REMAINING DEFICIENCY										0.00		
h. GRAND TOTAL										979,886.00		
8. PROJECTS REQUESTED IN THIS PROGRAM												
a. CATEGORY						b. COST (\$000)		c. DESIGN STATUS				
(1) CODE	(2) PROJECT TITLE				(3) SCOPE				(1) START	(2) COMPLETE		
442-758	EDI: RADR STORAGE FACILITY				6,208 SM		47,000		11/20	07/25		
9. FUTURE PROJECTS												
10. MISSION OR MAJOR FUNCTIONS												
RAF Fairford is the US Air Force's only European airfield for heavy bombers in support of U.S. Strategic Command's Bomber Task Force in Europe.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES												
N/A												

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD UNITED KINGDOM		4. PROJECT TITLE EDI: RADR STORAGE FACILITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER GKVB233002	8. PROJECT COST (\$000) 47,000	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				29,973
WAREHOUSE SUPPLY AND EQUIPMENT BASE (442-758)	SM	6,208	3,869	(24,019)
VEHICLE PARKING OPERATIONS (852-261)	SM	10,035	430	(4,315)
PAD, EQUIPMENT OR SUPPORT (132-133)	SM	2,378	430	(1,023)
CYBERSECURITY OF FACILITY RELATED CONTROL SYS	LS			(616)
SUPPORTING FACILITIES				11,847
UTILITIES	LS			(2,300)
SITE PREPARATION SITE IMPROVEMENTS	LS			(1,077)
PERIMETER FENCE	LM	1,700	713	(1,212)
ACCESS ROAD UPGRADES	SM	920	992	(913)
PRIMARY POWER UPGRADES	LM	3,539	1,515	(5,362)
ENVIRONMENTAL MITIGATION	LS			(525)
SUBTOTAL				41,820
CONTINGENCY (5.0%)				2,091
TOTAL CONTRACT COST				43,911
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				1,098
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,673
TOTAL REQUEST				46,682
TOTAL REQUEST (ROUNDED)				47,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
10. DESCRIPTION OF PROPOSED WORK: Construct Rapid Airfield Damage Recovery Storage Facilities comprising of humidity controlled warehouse storage for vehicles & equipment with industrial ventilation and freeze protection, bathrooms, & exterior International Standardization Organization Container Storage Pads and Vehicle Parking Operations. Supporting facilities include site work (landscaping, grading, and paving), security fencing, site utility systems (electrical, communications, fire protection, sanitary water, potable water, and storm water) and electrical distribution substation upgrade to ensure capacity. Facilities will be designed as permanent construction in accordance with the Department of Defense UFC 1-200-01. This project will comply with Department of Defense Anti terrorism/Force Protection requirements per Unified Facility Criteria 4-010-01. This 1391 indicates a Supervision/Inspection/Overhead (SIOH) rate of 2.5%. This percentage represents the pre-negotiated rate between the U.S. Government and the Defense Infrastructure Organization for the SIOH services the Government of the United Kingdom provides for all U.S.- funded MILCON projects in the United Kingdom. This project supports Overseas Operations Costs (OOC) requirements.				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD UNITED KINGDOM		4. PROJECT TITLE EDI: RADR STORAGE FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER GKVB233002	8. PROJECT COST (\$000) 47,000
Air Conditioning: 0 Tons			
<p>11. Requirement: 6,208 SM Adequate: 0 SM Substandard: 0 SM</p> <p>PROJECT: EDI: RADR STORAGE FACILITY</p> <p>REQUIREMENT: This project is required to enhance mission-readiness and airfield readiness capabilities at Royal Air Force Fairford, England. A key enabler for training and combat operations is substantial infrastructure, including providing Rapid Airfield Damage Recovery capabilities at main operating bases across the European Theater. Construction of rapid airfield damage recovery storage facilities is required to accommodate a Medium kit comprising three crater repair kits and one foreign object debris removal kit, two asphalt batch plants, and supporting tool sets. The kits allow United States forces to quickly deploy to repair runway assets to minimize prolonged airfield closures and disruptions to United States air operations.</p> <p>CURRENT SITUATION: There are currently no Rapid Airfield Damage Recovery Storage Facility assets at Royal Air Force Fairford. Existing Warehouse Support and Equipment facilities are dedicated to base support functions and are unavailable for this mission use.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Royal Air Force Fairford will not have readily available materiel, vehicles, and equipment to conduct necessary expedient airfield damage recovery. The lack of properly sized and configured vehicle and equipment storage space and pavement for International Standard Organization container storage will force the United States Air Force in Europe to make use of available open storage areas for vehicles and attachments that will not fully protect these valuable assets from climatic conditions. Exposure to the elements will degrade and potentially damage the vehicles and equipment, increasing maintenance costs, reducing the ability to respond in a contingency scenario, and increasing the potential for prolonged airfield closure. Consequent urgent repairs to restore the vehicles and attachments to the operations standards will degrade the installation's ability to launch and recover aircraft.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements, as well as Bi-Strategic Commands Directive 85-5, North Atlantic Treaty Organization Approved facilities Standards. The Supporting Facilities cost exceed 25% of the Primary Facilities costs due to utilities and the amount of pavement required to accommodate circulation of large vehicles and to support the storage and staging of materials. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD UNITED KINGDOM		4. PROJECT TITLE EDI: RADR STORAGE FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER GKVB233002	8. PROJECT COST (\$000) 47,000
<p>facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life- cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. An Economic Analysis was not performed because after an analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction. This project does not fall within or partly within the 100-year flood plan. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not currently part of an approved North Atlantic Treaty Organization capability package, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if the project becomes a North Atlantic Treaty Organization capability.</p> <p>Base Civil Engineer commercial phone number +49 6371-47-6773</p> <p>Warehouse Supply And Equipment Base: 6,208 SM = 66,822 Square Feet; Vehicle Parking Operations: 10,035 Square Meters = 108,016 Square Feet; Equipment Pad: 2,378 Square Meters = 25,597 Square Feet</p> <p>FOREIGN CURRENCY BUDGET RATE USED: POUND-DOLLAR 0.7200</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RAF FAIRFORD UNITED KINGDOM		4. PROJECT TITLE EDI: RADR STORAGE FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER GKVB233002	8. PROJECT COST (\$000) 47,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			Design-Build
(b) Date Design Started			03-NOV-20
(c) Parametric Cost Estimates Used to develop costs			YES
(d) Percent Complete as of 01 JAN 2023			75%
(e) Date 35% Designed			31-MAR-22
(f) Date Design Complete			31-JUL-25
(g) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design			NO
(b) Where Design Was Most Recently Used			N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e)			(\$000)
(a) Production of Plans and Specifications			1,147
(b) All Other Design Costs			1,843
(c) Total			2,990
(d) Contract			2,243
(e) In-house			747
(4) Construction Contract Award			24-JUN
(5) Construction Start			25-MAY
(6) Construction Completion			26-DEC
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
	PROCURING	APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	APPROP	OR REQUESTED	(\$000)
N/A			

1. COMPONENT AIR FORCE		FY <u>2024</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230301				
3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM					4. COMMAND UNITED STATES AIR FORCES IN EUROPE					5. AREA CONSTRUCTION COST INDEX 1.20	
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-22		623	5,525	1,060	0	0	0	0	0	0	7,208
b. END FY		574	4,738	1,031	0	0	0	0	0	0	6,343
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										2,186	
b. INVENTORY TOTAL AS OF 30-SEP-22										5,100,000.00	
c. AUTHORIZATION NOT YET IN INVENTORY										245,885.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										78,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										328,200.00	
g. REMAINING DEFICIENCY										530,500.00	
h. GRAND TOTAL										6,282,585.00	
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY						b. COST (\$000)		c. DESIGN STATUS			
(1) CODE	(2) PROJECT TITLE		(3) SCOPE					(1) START	(2) COMPLETE		
442-758	EDI: RADR STORAGE FACILITY		4,163 SM		28,000	09/21	07/25				
721-312	SURETY DORMITORY		5,900 SM		50,000	06/22	08/24				
9. FUTURE PROJECTS											
872-247 Surety Barrier System (8,497 LM/\$125,000)											
141-753 Surety Defender Operations Center (3,046 SM/\$58,200)											
141-461 Surety Primary Command Post (1,647 SM/\$25,000)											
422-264 EDI: Munitions Storage Expansion (7,224 SM/\$120,000)											
10. MISSION OR MAJOR FUNCTIONS											
RAF Lakenheath is home to the 48th Fighter Wing, the largest fighter wing in USAFE. Its mission is to train, support, and employ a Combat Fighter Wing, including one F-15C and two F-15E squadrons together with a squadron of HH-60 helicopters. It is also the future home of the F-35A.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH UNITED KINGDOM		4. PROJECT TITLE EDI: RADR STORAGE FACILITY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER MSET193007	8. PROJECT COST (\$000) 28,000	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				16,438
WAREHOUSE SUPPLY AND EQUIPMENT BASE (442-758)	SM	4,163	2,973	(12,377)
BASE ENGINEER MAINTENANCE SHOP (219-944)	SM	841	2,433	(2,046)
PAD, EQUIPMENT OR SUPPORT (132-133)	SM	2,405	609	(1,465)
FENCE INTERIOR (872-248)	LM	923	325	(300)
CYBERSECURITY OF FACILITY RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				8,240
UTILITIES	LS			(2,849)
SITE IMPROVEMENTS	LS			(2,889)
PAVEMENT	LS			(2,052)
DEMOLITION	SM	867	519	(450)
SUBTOTAL				24,678
CONTINGENCY (5.0%)				1,234
TOTAL CONTRACT COST				25,912
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				648
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				987
TOTAL REQUEST				27,547
TOTAL REQUEST (ROUNDED)				28,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
10. DESCRIPTION OF PROPOSED WORK: Construct Rapid Airfield Damage Recovery Storage Facilities for three Rapid Airfield Damage Recovery kits comprising of warehouse storage for vehicles and equipment with industrial ventilation, freeze protection, bathrooms, and exterior International Standardization Organization Container Storage Pads. There will also be a replacement of the Base Engineer Maintenance Shop conducted in Building 1383 that will be relocated. Supporting facilities include site work (landscaping, grading, and paving), fencing, site utility systems (electrical, communications, fire protection, sanitary water, potable water, and stormwater) and upgrade distribution substation transformer replacement to ensure capacity. This project includes the demolition of buildings 1383(235 SM), 2305 (92 SM), and 1399(540 SM) (total 867 SM). Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facility Criteria 4-010-01. This 1391 indicates a Supervision/Inspection/Overhead (SIOH) rate of 2.5%. This percentage represents the pre-negotiated rate between the U.S. Government and				

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH UNITED KINGDOM		4. PROJECT TITLE EDI: RADR STORAGE FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER MSET193007	8. PROJECT COST (\$000) 28,000
<p>the Defense Infrastructure Organization for the SIOH services the Government of the United Kingdom provides for all U.S. funded MILCON projects in the UK. This project supports Overseas Operations Costs (OOC) requirements.</p> <p>Air Conditioning: 0 Tons</p>			
<p>11. Requirement: 4,163 SM Adequate: 0 SM Substandard: 867 SM</p> <p>PROJECT: EDI: RADR STORAGE FACILITIES</p> <p>REQUIREMENT: This project is required to enhance mission-readiness and airfield readiness capabilities at Royal Air Force Lakenheath, England. A key enabler for training and combat operations is substantial infrastructure, including providing Rapid Airfield Damage Recovery capabilities at main operating bases across the European Theater. Construction of Rapid Airfield Damage Recovery Storage Facilities is required to accommodate a Medium kit comprising three crater repair kits and one foreign object debris removal kit. The kits allow U.S. forces to quickly deploy to repair runway assets to minimize prolonged airfield closures and disruptions to U.S. air operations.</p> <p>CURRENT SITUATION: There are currently no Rapid Airfield Damage Recovery Storage Facility assets at Royal Air Force Lakenheath. Existing Warehouse Support and Equipment facilities are dedicated to base support functions and are unavailable for this mission use.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Royal Air Force Lakenheath will not have readily available materiel, vehicles, and equipment to conduct necessary expedient airfield damage recovery. The lack of properly sized and configured vehicle and equipment storage space and pavement for International Standard Organization container storage will force the United States Air Force in Europe to make use of available open storage areas for vehicles and attachments that will not fully protect these valuable assets from climatic conditions. Exposure to the elements will degrade and potentially damage the vehicles and equipment, increasing maintenance costs, reducing the ability to respond in a contingency scenario, and increasing the potential for prolonged airfield closure. Consequent urgent repairs to restore the vehicles and attachments to the operational standards will degrade the installation's ability to launch and recover aircraft.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements, as well as Bi-Strategic Commands Directive 85-5, North Atlantic Treaty Organization Approved facilities Standards. The Supporting Facilities cost exceed 25% of the Primary Facilities costs due to extensive site preparation, demolition, utility connections, and pavements work required to make the storage facilities complete and usable for complete RADR kits. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a</p>			

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3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH UNITED KINGDOM		4. PROJECT TITLE EDI: RADR STORAGE FACILITY	
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<p>Standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. An Economic Analysis was not performed because after an analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction. A Waiver to an Economic Analysis has been approved for this project. This project does not fall within or partly within the 100-year flood plan. The facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not currently part of an approved North Atlantic Treaty Organization capability package, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if the project becomes a North Atlantic Treaty Organization capability.</p> <p>Base Civil Engineer commercial phone number +49 6371-47-6773</p> <p>Warehouse Supply And Equipment Base: 4,163 SM = 44,810 Square Feet;</p> <p>Base Engineer Maintenance Shop: 841 SM = 9,052 Square Feet;</p> <p>Pad, Equipment or Support: 2,405 SM = 25,887 Square Feet;</p> <p>Fence Interior: 923 LM = 3028 Linear Feet;</p> <p>Demolition: 867 SM = 9,332 Square Feet.</p> <p>FOREIGN CURRENCY BUDGET RATE USED: POUND-DOLLAR 0.7200</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION, SITE AND LOCATION RAF LAKENHEATH UNITED KINGDOM		4. PROJECT TITLE EDI: RADR STORAGE FACILITY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER MSET193007	8. PROJECT COST (\$000) 28,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			Design-Build
(b) Date Design Started			23-SEP-21
(c) Parametric Cost Estimates Used to develop costs			YES
(d) Percent Complete as of 01 JAN 2023			35%
(e) Date 35% Designed			7-JUL-22
(f) Date Design Complete			31-JUL-25
(g) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design			NO
(b) Where Design Was Most Recently Used			N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e)			(\$000)
(a) Production of Plans and Specifications			1,012
(b) All Other Design Cost			521
(c) Total			1,533
(d) Contract			1,150
(e) In-house			383
(4) Construction Contract Award			24-JUN
(5) Construction Start			25-MAY
(6) Construction Completion			26-DEC
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
N/A			

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023	
3. INSTALLATION AND LOCATION RAF LAKENHEATH UNITED KINGDOM		4. PROJECT TITLE: SURETY DORMITORY			
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MSET193001	8. PROJECT COST (\$000) 50,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES					40,560
DORMITORY AIRMAN PERMANENT PARTY		SM	5900	6,646	(39,211)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(1,349)
SUPPORTING FACILITIES					3,800
SITE IMPROVEMENTS		LS			(1,228)
UTILITIES		LS			(1,903)
ROADWAYS, SIDEWALKS, AND PARKING		LS			(669)
SUBTOTAL					44,360
CONTINGENCY (5.0%)					2,218
TOTAL CONTRACT COST					46,578
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)					1,164
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					1,774
TOTAL REQUEST					49,516
TOTAL REQUEST (ROUNDED)					50,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(3,000)
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a 144-bed enlisted dormitory, with reinforced concrete foundation, concrete slab, structural steel frame, standing seam metal roof and exterior. Project will include all supporting facilities such as site improvements, pavements, communications, utilities necessary to provide a complete and useable facility. Local materials and construction techniques shall be used where cost effective. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>					
<p>11. REQUIREMENT: 5,900 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM</p> <p>PROJECT: Construct a 144-bed enlisted dormitory</p> <p>REQUIREMENT: Construct a 144-bed dormitory to house the increase in enlisted personnel as the result of the potential Surety Mission. A major Air Force</p>					

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3. INSTALLATION AND LOCATION RAF LAKENHEATH UNITED KINGDOM		4. PROJECT TITLE: SURETY DORMITORY	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MSET193001	8. PROJECT COST (\$000) 50,000
<p>objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of increasingly complicated and important jobs these airmen perform. The retention of these highly trained airmen is essential to our readiness posture and continuing worldwide presence. The dormitory should also include appropriate sound attenuation to reduce noise to required levels. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: With the influx of airmen due to the arrival of the potential Surety mission and the bed down of the two F-35 squadrons there is a significant deficiency in the amount of unaccompanied housing available for E-4s and below at Royal Air Force Lakenheath.</p> <p>IMPACT IF NOT PROVIDED: Adequate living quarters which provide a level of privacy required for today's airmen will not be available, resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel. If adequate quarters are not available, young, enlisted personnel could be required to move off the installation living miles away due to the base's remote location. The off-base living will also result in an amplified addition to cost of Overseas Housing Allowance.</p> <p>ADDITIONAL: This project meets applicable criteria/scope identified in Air Force Manual 32-1084, Facility Requirements. All work associated with this project shall comply with United States Air Force and Host Nation regulations and agreements. The country-to-country agreement precludes the use of International Competitive Bidding proceedings in the United Kingdom. Work will comply with all relevant Unified Facilities Criteria, Air Force Instructions, and Royal Air Force Lakenheath Base Standards. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis</p>			

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for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and will employ a standard facility design for dorms. The project has been reviewed and a determination has been made that no portion is eligible for North Atlantic Treaty Organization funding. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.

48th Fighter Wing Base Civil Engineer: 044-1638-522100

Dormitory: 5,900 SM = 63,507 Square Feet

FOREIGN CURRENCY BUDGET RATE USED: POUNDS STERLING 0.7200

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION RAF LAKENHEATH UNITED KINGDOM		4. PROJECT TITLE: SURETY DORMITORY		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MSET193001	8. PROJECT COST (\$000) 50,000	
12. SUPPLEMENTAL DATA				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design				Design-Build
(b) Date Design Started				01-JUN-2022
(c) Parametric Cost Estimates used to develop costs				YES
(d) Percent Complete as of 01 JAN 2023				65%
(e) Date 35% Designed				01-AUG-22
(f) Date Design Complete				30-AUG-24
(g) Energy Study/Life-Cycle analysis was performed				YES
(2) Basis:				
(a) Standard or Definitive Design -				YES
(b) Where Design Was Most Recently Used -		ROYAL AIR FORCE LAKENHEATH		
(3) Total cost = (a) + (b) and (d) + (e) (\$000)				
(a) Production of Plans and Specifications				3,000
(b) All Other Design Costs				1,500
(c) Total				4,500
(d) Contract				3,750
(e) In-house				750
(4) Construction Contract Award				24-FEB
(5) Construction Start				24-JUN
(6) Construction Completion				26-FEB
b. Equipment associated with this project provided from other appropriations:				
			FISCAL YEAR	
			APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP		OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	3080		2026	2,500
COMMUNICATION EQUIPMENT	3080		2026	500



Department of the Air Force

Host Nation Funded Military Construction Program

**Fiscal Year (FY) 2024
Budget Estimates**

**Justification Data Submitted to
Congress Mar 2023**

**DEPARTMENT OF THE AIR FORCE
HOST NATION MILITARY CONSTRUCTION PROGRAM CALENDAR YEAR 2024
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**DEPARTMENT OF THE AIR FORCE
HOST NATION MILITARY CONSTRUCTION PROGRAM CALENDAR YEAR 2024
PROGRAM SUMMARY**

	Authorization Request <u>(\$000s)</u>
Military Construction	
Major Construction	256,800
Total Military Construction	256,800

Strategic Narrative:

The enclosed justification book represents the United States Air Forces Korea (USFK) Republic of Korea and United State European Command (EUCOM) Host Nation Funded Construction program for calendar year 2024. Although the justification book may appear to be a list of individual projects, these projects were developed in coordination between both countries to form an overall consolidated program to meet priorities and Theater Infrastructure Master Plan – Armistice objectives. These projects have been through a detailed scoring and prioritization process with involvement of the component commanders and represent the most critical and urgent operational requirements.

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**DEPARTMENT OF THE AIR FORCE
 HOST NATION MILITARY CONSTRUCTION PROGRAM
 CALENDAR YEAR 2024 INDEX
 (DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	COST (\$000)
REPUBLIC OF KOREA	Osan Air Base	Consolidated Operations Group and Maintenance Group Headquarters	46,000
		Flightline Dining Facility	6,800
		Reconnaissance Squadron Operations and Avionics Facility	30,000
		Repair Aircraft Maintenance Hangar, B1732	8,000
		Upgrade Electrical Distribution East, PH2	46,000
		Water Supply Treatment Facility	22,000
		Osan Air Base TOTAL:	158,800
	REPUBLIC OF KOREA TOTAL:	158,800	
REPUBLIC OF POLAND	Wroclaw Air Base	Aerial Port of Debarkation Ramp	59,000
		Taxiways to Aerial Port of Debarkation Ramp	39,000
		Wroclaw Air Base TOTAL:	98,000
	REPUBLIC OF POLAND TOTAL:	98,000	
	HOST NATION FUNDED CONSTRUCTION TOTAL:	256,800	

s1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: CONSOLIDATED OPERATIONS GROUP AND MAINTENANCE GROUP HEADQUARTERS		
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 610243	7. PROJECT NUMBER: F21R694	8. PROJECT COST (\$000) 46,000	
9. COST ESTIMATES:				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITY				36,323
HEADQUARTERS (610243)	SM	7,058	4,915	(34,690)
ALTERNATE AIR CONTROL TOWER (149962)	SM	113	6,018	(680)
CYBERSECURITY	LS	1		(953)
SUPPORTING FACILITIES				4,994
SITE IMPROVEMENTS	LS	1		(604)
PAVEMENTS	SM	2,980	205	(611)
UTILITIES	LS	1		(942)
COMMUNICATIONS	LS	1		(522)
SPECIAL FOUNDATIONS	LS	1		(1,727)
DEMOLITION	SM	3,561	165	(588)
ESTIMATED CONTRACT				41,317
COST CONTINGENCY (5.0%)				2,066
SUBTOTAL				43,383
SUPERVISION, INSPECTION & OVERHEAD - 6.0%				2,603
TOTAL REQUEST				45,986
TOTAL REQUEST (ROUNDED)				46,000
EQUIPMENT FROM OTHER APPROPRIATIONS				1,179
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
Utilize host-nation funding to build a new Headquarters facility (51 Operations Group/Maintenance Group) to replace B1185 utilizing conventional design and construction methods to accommodate the mission of the facility. The new facility will offer: training rooms, administration and records, classrooms, office space for military personnel, restrooms, storage, and other indirect supporting spaces. Also included is an alternate air traffic control tower and integrated parking for 50 vehicles. Construction will include reinforced concrete foundation, structural steel frame, an elevator, split-face concrete masonry unit veneer and standing seam metal roof. The project will include all necessary utilities, site improvements, pavements, communication support infrastructure, and all necessary supporting work for a complete and usable facility. The Sensitive Compartmented Information (SCI) requirements within the facility will be accomplished by a separate funding companion project, Consolidated Operations Group and Maintenance Group (OG & MXG) Headquarters (Secure Working Area Only) SMYU223012FB. Facilities will be designed as permanent construction in accordance with the Department of Defense (DoD) Unified Facilities Criteria (UFC) 1-200-01. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for				

s1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
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5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 610243	7. PROJECT NUMBER: F21R694	8. PROJECT COST (\$000) 46,000
<p>energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project will comply with Department of Defense antiterrorism/force protection (AT/FP) requirements per Unified Facility Criteria 4-010-01. The project will demolish buildings 1180 (26 Square Meters) (1 each), 1184 (17 Square Meters), 1185 (1,938 Square Meters), 1186 (389 Square Meters), 1231 (16 Square Meters), 1234 (372 Square Meters), 1235 (17 Square Meters), 1237 (434 Square Meters), 1238 (331 Square Meters), and 1240 (21 Square Meters) (Total: 3,561 Square Meters).</p> <p>Air Conditioning: 160 Tons</p> <p>11. REQUIREMENT: 7,171 SM ADQT: 0 SM SUBSTD: 3,561 SM</p> <p>PROJECT: Construct a Consolidated Operations Group (OG) and Maintenance Group (MXG) Command Headquarters (HQ) Facility (Current Mission).</p> <p>REQUIREMENT: A consolidated headquarters facility is required to support the mission of the 51st Fighter Wing A-10 and F-16 aircraft at Osan Air Base (AB). In order to direct flight operations and plan, brief, and critique combat crews, the 51st Fighter Wing needs an adequately sized and properly configured headquarters facility. The 51st Operations Group (OG) mission is to provide survivable, reliable, precision airpower in both air-to-ground and air-to-air missions to support joint and combined forces on the Korean Peninsula. The 51st Maintenance Group (MXG) mission is to inspect and maintain many combat-ready aircraft by more than 1300 airmen, such as the F-16 Fighting Falcon and A-10 Thunderbolt II, to ensure the 51st Fighter Wing is ready to "Fight Tonight." This project is also required to provide "ready to fight tonight" air power - precise, intense, and overwhelming capabilities, whenever and wherever needed. Administrative space is required for both operations and maintenance commanders and associated staff to program and conduct mission briefings and other related command activities. Squadron operations management support, briefing/debriefing, flight planning, training and testing, flying/ground safety, mobility office, standardization/evaluation, and scheduling all need adequate space for mission execution.</p> <p>CURRENT SITUATION: Operations Group (OG) and Maintenance Group (MXG) Headquarters facility operates from antiquated and inadequate building 1185 which was built in 1961. It is over 60 years old, in poor condition, and is not configured properly to efficiently support the Operations Group (OG) and Maintenance Group (MXG) mission requirements. According to the Civil Engineer Squadron's Sustainment Maintenance System (SMS) data, most building systems and components will fail</p>			

s1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: MARCH 2023
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3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA	4. PROJECT TITLE: CONSOLIDATED OPERATIONS GROUP AND MAINTENANCE GROUP HEADQUARTERS
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5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 610243	7. PROJECT NUMBER: F21R694	8. PROJECT COST (\$000) 46,000
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soon and exceed their lifespan, which could lead to potential mission disruption and inefficiencies. There are numerous failed conditions (score of <60) present in B1185 to include B20 exterior enclosure, B30 roofing, C30 interior finishes, D30 Heating, Ventilation, and Air Conditioning (HVAC), and G30 site civil/mechanical utilities systems. Building 1185 is in disrepair and can only be run until failure based on cost analysis. Furthermore, it is an inadequate and outdated building that lacks required space to meet current manpower requirements and standards per AFMAN 32-1084.

IMPACT IF NOT PROVIDED:

If this project is not provided, the United States Air Force will continue to operate in an antiquated, unprotected, and substandard facility that hinders the health and safety of its occupants. It will negatively affect the effective and timely decision-making process, battle management, and optimization of combined capabilities across warfighting platforms. The critical reconnaissance mission on the Korean Peninsula cannot absorb any mission downtime without jeopardizing national posture. Without this project, both the 51 Operations Group (OG) and Maintenance Group (MXG) will not be able to support classified missions for the Combined Forces Air Component, numbered Air Force, and the Fighter Wing missions.

A. JOINT USE CERTIFICATE: For United States (US) exclusive use, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components.

B. HOST NATION: This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. The possibility of Host Nation funding has been addressed to support this requirement.

C. PHYSICAL SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included.

D. ANTI TERRORISM/FORCE PROTECTION: All of the 21 Building Standards for Antiterrorism/Force Protections (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in Unified Facilities Criteria (UFC) 4-010-01. All facilities will meet current Unified Facilities Criteria (UFC) 4-010-01 standards for buildings and site. Major Antiterrorism/Force Protections (AT/FP) building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.

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5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 610243	7. PROJECT NUMBER: F21R694	8. PROJECT COST (\$000) 46,000
<p>E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. This facility shall be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the current version of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1 or the International Energy Conservation Code, as appropriate. All equipment going into this facility must be Energy Star rated or on the Federal Energy Management Program (FEMP) approved list. All utilities shall be metered using advanced meters as defined by the Federal Energy Management Program.</p> <p>F. Full fire protection is required by regulation and Unified Facilities Criteria 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the fire alarm computer located at the fire department emergency communication center through the use of a building transmitter installed meeting the building design.</p> <p>G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards and the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the Air Force Civil Engineer Center. The design must comply with Osan Air Base Installation Planning Standards.</p> <p>H. Comprehensive interior design package for the Architectural & Engineering (AE) firm to complete as required by Unified Facilities Criteria 3-120-10.</p> <p>I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.</p> <p>J. Flood Plain Statement: This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facility and any flood-susceptible utilities above the 100-year flood level. This is a non-mission critical facility. The facility and any flood-susceptible utilities will be constructed a minimum of two feet above the 100-year flood elevation.</p> <p>K. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>L. 51st Fighter Wing Base Civil Engineer: 011-82-31-661-4312</p>			

s1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: CONSOLIDATED OPERATIONS GROUP AND MAINTENANCE GROUP HEADQUARTERS	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 610243	7. PROJECT NUMBER: F21R694	8. PROJECT COST (\$000) 46,000
<p>M. OG/MXG Headquarters: 4,503 Square Meter = 48,470 Square Feet. Integrated Parking Garage: 2,503 Square Meter = 26,942 Square Feet. Alternate Air Control Tower: 113 Square Meter = 1,216 Square Feet. Demolition: 3,561 Square Meters = 38,330 Square Feet.</p>			

s1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: CONSOLIDATED OPERATIONS GROUP AND MAINTENANCE GROUP HEADQUARTERS	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 610243	7. PROJECT NUMBER: F21R694	8. PROJECT COST (\$000) 46,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			Design-Bid-Build
(b) Date Design Started			May 2023
(c) Parametric Cost Estimates used to develop costs			YES
(d) Percent Complete			15
(e) Date 35% Designed			Jan 2024
(f) Date Design Complete			Sep 2024
(g) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			YES
(b) Where Design Was Most Recently Used -			N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e) :			(\$000)
(a) Production of Plans and Specifications			2,760
(b) All other Design Costs			1,380
(c) Total			4,140
(d) Contract			3,450
(e) In-house			690
(4) Construction Start			25-Apr
(5) Construction Completion			27-Jul
b. Equipment associated with this project provided from other appropriations:			
Fiscal Year			
Equipment Nomenclature	Procuring Appropriation	Appropriated or Requested	Cost (\$000)
Furniture, Fixture & Equip	3080	2026	1,029
Communication Equipment	3080	2026	150
c. Explosive Safety Quantity-Distance (Q-D) Siting: YES			
Department of Defense Explosive Safety Board (DDESB): Not yet			
d. Facilities and Areas Sub-Committee (FASC) Task: N/A			

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: FLIGHT LINE DINING FACILITY		
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 722-351	7. PROJECT NUMBER: F25R635	8. PROJECT COST (\$000) 6,800	
9. COST ESTIMATES:				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITY				4,292
DINING FACILITY (722-351)	SM	499	8,100	(4,042)
CYBERSECURITY	LS			(250)
SUPPORTING FACILITY				1,798
UTILITIES	LS			(489)
PAVEMENTS	LS			(609)
SITE IMPROVEMENTS	LS			(312)
COMMUNICATIONS	LS			(150)
SPECIAL FOUNDATIONS	LS			(150)
DEMOLITION	SM	219	401	(88)
ESTIMATED CONTRACT				6,090
COST CONTINGENCY (5%)				304
SUBTOTAL				6,394
SUPERVISION, INSPECTION & OVERHEAD - 6.0%				384
TOTAL REQUEST				6,778
TOTAL REQUEST (ROUNDED)				6,800
EQUIPMENT FROM OTHER APPROPRIATIONS				1,100
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
<p>Utilize host-nation funding to construct a Flight Line Dining Facility (FDFAC) utilizing conventional design and construction methods to accommodate the mission of the facility. This project is to construct a new fully functional and properly configured dining facility for airmen on airfield areas. The dining facility will offer: dining area, kitchen with food preparation and support space, public restrooms, dry and refrigerated storage areas, offices, training room, storage, breakroom, staff restroom, locker room, a janitor room, mechanical, electrical and communications room. Construction will include reinforced concrete foundation, floor slabs, split-face concrete masonry unit veneer, a standing seam metal roof, Heating, Ventilating and Air Conditioning (HVAC), fire suppression, alarm and mess notification systems. The project will include all necessary utilities, site improvements, pavements, parking, communications support infrastructure, and all necessary supporting work for a complete and usable flight line dining facility. Facilities will be designed as permanent construction in accordance with the Department of Defense (DoD) Unified Facilities Criteria (UFC) 1-200-01. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-</p>				

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: FLIGHT LINE DINING FACILITY	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 722-351	7. PROJECT NUMBER: F25R635	8. PROJECT COST (\$000) 6,800
<p>IMPACT IF NOT PROVIDED: If this project is not provided, further building deterioration and escalating maintenance costs will continue to limit the quality of food service provided and continued creating a hazardous health and safety issue. Personnel will have to commute a couple of miles roundtrip for one meal in order to utilize the existing dining facility. The average round trip commute time for one meal will be 30 minutes. Transport by bus of personnel will add time to the commute pushing it to one hour. Under bad weather conditions, this time easily exceeds an hour. This, in turn, adds stress to airmen already limited by daily flying and maintenance schedules, and increases the risk of airmen skipping nutritional meals because of these additional time constraints.</p> <p>A. JOINT USE CERTIFICATE: For United States exclusive-use, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components.</p> <p>B. HOST NATION: This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. The possibility of Host Nation funding has been addressed to support this requirement.</p> <p>C. PHYSICAL SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included.</p> <p>D. ANTI TERRORISM/FORCE PROTECTION: All of the 21 Building Standards for Antiterrorism/Force Protections (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in Unified Facilities Criteria 4-010-01. All facilities will meet current Unified Facilities Criteria 4-010-01 standards for buildings and site. Major Antiterrorism/Force Protection building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.</p> <p>E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. This facility shall be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the current version of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1 or the International Energy Conservation Code, as appropriate. All equipment going into this facility must be Energy Star rated or on the Federal Energy Management Program (FEMP) approved list. All utilities</p>			

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: FLIGHT LINE DINING FACILITY	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 722-351	7. PROJECT NUMBER: F25R635	8. PROJECT COST (\$000) 6,800
<p>shall be metered using advanced meters as defined by the Federal Energy Management Program.</p> <p>F. Full fire protection is required by regulation and Unified Facilities Criteria 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the fire alarm computer located at the fire department emergency communication center through the use of a building transmitter installed meeting the building design.</p> <p>G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards and the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the Air Force Civil Engineer Center. The design must comply with Osan Air Base's Installation Planning Standards.</p> <p>H. Comprehensive interior design package for the Architectural & Engineering (AE) firm to complete as required by Unified Facilities Criteria 3-120-10.</p> <p>I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.</p> <p>J. Flood Plain Statement: This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facility and any flood-susceptible utilities above the 100-year flood level.</p> <p>K. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>L. Flight Line Dining Facility: 499 Square Meters = 5,372 Square Feet. Demolish: 219 Square Meter = 2,360 Square Feet.</p>			

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: FLIGHT LINE DINING FACILITY
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 722-351	7. PROJECT NUMBER: F25R635
		8. PROJECT COST (\$000) 6,800

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-Bid-Build
(b) Date Design Started	May 2023
(c) Parametric Cost Estimates used to develop costs	YES
(d) Percent Complete	15
(e) Date 35% Designed	Jan 2024
(f) Date Design Complete	Sep 2024
(g) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e) : (\$000)

(a) Production of Plans and Specifications	0
(b) All other Design Costs	0
(c) Total	0
(d) Contract	0
(e) In-house	0

(4) Construction Start 25-Apr

(5) Construction Completion 27-Jul

b. Equipment associated with this project provided from other appropriations:

	Fiscal Year		Cost
Equipment Nomenclature	Procuring Appropriation	Appropriated or Requested	(\$000)
Furniture, Fixture & Equip	3080	2026	1,000
Communication Equipment	3080	2026	100

c. Explosive Safety Quantity-Distance (Q-D) Siting: YES
Department of Defense Explosive Safety Board (DDESB): Not yet

d. Facilities and Areas Sub-Committee (FASC) Task: N/A

1. COMPONENT: AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE: MARCH 2023	
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA			4. PROJECT TITLE: RECONNAISSANCE SQUADRON OPERATIONS AND AVIONICS FACILITY			
5. PROGRAM ELEMENT: N/A		6. CATEGORY CODE: 141-753		7. PROJECT NUMBER: F23R505		8. PROJECT COST (\$000) 30,000
9. COST ESTIMATES:						
ITEM		U/M	QTY	UNIT COST	COST (\$000)	
PRIMARY FACILITY					22,900	
SQUADRON OPERATIONS (141-753)		SM	2,218	10,212	22,650	
CYBERSECURITY		LS			250	
SUPPORTING FACILITIES					3,759	
SPECIAL FOUNDATION (PILING)		LS			1,475	
ELECTRIC SERVICE		LS			512	
STANDBY GENERATOR		KW	200	1,163	233	
WATER, SEWER AND GAS		LS			416	
PAVING, WALKS, CURBS & GUTTER		LS			140	
STORM DRAINAGE		LS			124	
SITE IMPROVEMENTS/DEMOLITION		LS			598	
BUILDING DEMOLITION		SM	637	397.37	253	
COMMUNICATIONS		LS			8	
ESTIMATED CONTRACT COST					26,659	
CONTINGENCY (5%)					1,333	
SUBTOTAL					27,992	
SUPERVISION, INSPECTION & OVERHEAD (6%)					1,680	
TOTAL REQUEST					29,672	
TOTAL REQUEST (ROUNDED)					30,000	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					3,756	
10. DESCRIPTION OF PROPOSED CONSTRUCTION:						
Utilize host-nation funding to construct a new Reconnaissance Squadron (RS) operations and avionics facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility includes administrative areas, 24/7 operations working areas, briefing/debriefing rooms, supply room, communication areas, storage space working bays for avionics maintenance shop, tool rooms, break rooms, elevator, and restrooms. This facility will include Aircrew Flight Equipment/life-support storage and maintenance rooms for the U-2 Full-Pressure-Suits (FPS) and associated survival gear as well as an area to issue, don and doff the Full-Pressure-Suits (FPS) for mission execution. The facility includes a reinforced concrete foundation and floor slab, structural steel frame with walls, and a pitched roof system with included antenna supports for high frequency, ultra-high frequency and very high frequency antennae, a backup power generator to support mission critical life-support equipment, fuel tank, pavements, utilities, site improvements and all necessary supporting work for a complete and usable facility. The Secure area requirements within the squadron operations areas will be accomplished by a separate United States (US) funding program project, Reconnaissance Squadron Secure Operations Facility, SMYU223005.						
PREVIOUS EDITION IS OBSOLETE						

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: RECONNAISSANCE SQUADRON OPERATIONS AND AVIONICS FACILITY (ROKFC IN-KIND)	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 141-753	7B. PROJECT NUMBER: F23R505/SMYU223004	8. PROJECT COST (\$000) 30,000

Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01. This project will demolish building 841 (637 Square Meters)

Air Conditioning: 100 Tons

11. REQUIREMENT:

REQ: 2,218 M2

ADQT: 0 M2

SUBSTD: 637 M2

PROJECT:

Construct a reconnaissance squadron operations and avionics facility. (Current Mission)

REQUIREMENT:

The goal of the project is to support Air Force Intelligence, Surveillance, and Reconnaissance (ISR) operations in a new Reconnaissance Squadron (RS) facility. This project will provide timely, accurate, and relevant ISR across the full range of theater activities as well as integration across all appropriate air, space, cyberspace, and joint capabilities.

CURRENT SITUATION:

United States Air Force reconnaissance operations operate from antiquated and inadequate building 841 which was built in 1961. According to the Civil Engineer Squadron's Sustainment Maintenance System data, most building systems and components will likely fail soon and even exceed their lifespan, which could lead to potential mission disruption or inefficiencies. Squadron members have already experienced and reported adverse health effects resulting from inadequate ventilation in the operations vault (validated by bio-environmental engineering and flight medicine). The mission of the reconnaissance squadron has expanded over the last two years. The current reconnaissance squadron operations facility does not meet mission requirements due to insufficient classified information processing certifications and capabilities as well as inadequate work space. Critical Intelligence, Surveillance and Reconnaissance (ISR) missions, functions, and personnel missions are currently conducted in unprotected areas and/or temporary locations.

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: RECONNAISSANCE SQUADRON OPERATIONS AND AVIONICS FACILITY (ROKFC IN-KIND)	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 141-753	7B. PROJECT NUMBER: F23R505/SMYU223004	8. PROJECT COST (\$000) 30,000

IMPACT IF NOT PROVIDED:

Without this project, the 5 RS will not be able to support classified operations for the Combined Forces Air Component, numbered Air Force, and the Fighter Wing. The ISR operations will continue in a substandard, antiquated, and unprotected facility that will prevent smooth decision-making processes and coordination of combined capabilities across war fighting platforms.

ADDITIONAL:

- A. JOINT USE CERTIFICATE:** For United States (US) exclusive use but can be used on an "as available" basis; however, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components.
- B. HOST NATION:** This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. The possibility of Host Nation funding has been addressed to support this requirement.
- C. PHYSICAL SECURITY:** This project has been coordinated with the installation physical security plan, and all physical security measures are included.
- D. ANTI TERRORISM/FORCE PROTECTION:** All of the 21 Building Standards for Antiterrorism/Force Protections (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in Unified Facilities Criteria (UFC) 4-010-01, dated 9 February 2012, change 1, 1 Oct 2013. All facilities will meet current Unified Facilities Criteria (UFC) 4-010-01 standards for buildings and site. Such additional Antiterrorism/Force Protections (AT/FP) site features will include concrete or metal pop-up bollards and barriers, to include sidewalks that provides as barriers from the main road(s) are at least eight inches high, compare to road level to ensure stand-off distance is met in accordance with the reference above. Major Antiterrorism/Force Protections (AT/FP) building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: RECONNAISSANCE SQUADRON OPERATIONS AND AVIONICS FACILITY (ROKFC IN-KIND)
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 141-753	7B. PROJECT NUMBER: F23R505/SMYU223004
		8. PROJECT COST (\$000) 30,000

E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. This facility shall be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the current version of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1 or the International Energy Conservation Code, as appropriate. All equipment going into this facility must be Energy Star rated or on the Federal Energy Management Program (FEMP) approved list. All utilities shall be metered using advanced meters as defined by Federal Energy Management Program (FEMP).

F. Full fire protection is required by regulation and Unified Facilities Criteria (UFC) 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria (UFC) 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the fire alarm computer located at the fire department communication center through the use of a building transmitter installed at the building design.

G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. The design must comply with OSAN Air Base' Installation Planning Standards.

H. Comprehensive interior design package for the AE to complete as required by Unified Facilities Criteria (UFC) 3-120-10.

I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.

J. Flood Plain Statement: This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facility and any flood-susceptible utilities above the 100-year flood level. This is a mission critical facility. The facility and any flood - susceptible utilities will be constructed a minimum of two feet above the 100-year flood elevation.

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: RECONNAISSANCE SQUADRON OPERATIONS AND AVIONICS FACILITY (ROKFC IN-KIND)	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 141-753	7B. PROJECT NUMBER: F23R505/SMYU223004	8. PROJECT COST (\$000) 30,000

K. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.

L. 51st Fighter Wing Base Civil Engineer: 011-82-31-661-4312.

M. Squadron Operations facility: 2,218 Square Meter = 23,870 Square Feet.
Demolition: 637 Square Meter = 6,856 Square Feet.

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: RECONNAISSANCE SQUADRON OPERATIONS AND AVIONICS FACILITY (ROKFC IN-KIND)	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 141-753	7B. PROJECT NUMBER: F23R505/SMYU223004	8. PROJECT COST (\$000) 30,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-Bid-Build
(b) Date Design Started	Aug 2022
(c) Parametric Cost Estimates used to develop costs	YES
(d) Percent Complete	15
(e) Date 35% Designed	Jan 2023
(f) Date Design Complete	Sep 2023
(g) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e) : (\$000)

(a) Production of Plans and Specifications	0
(b) All other Design Costs	0
(c) Total	0
(d) Contract	0
(e) In-house	0

(4) Construction Start 24-Apr

(5) Construction Completion 26-Jul

b. Equipment associated with this project provided from other appropriations:

	Procuring	Fiscal Year	Cost
Equipment Nomenclature	Appropriation	Appropriated or Requested	(\$000)
Furniture, Fixture & Equip	3080	2025	2,407
Communication Equipment	3080	2025	1,349
Electronic Security System	3080	2025	TBD

c. Explosive Safety Quantity-Distance (Q-D) Siting: N/A
Department of Defense Explosive Safety Board (DDESB): N/A

d. Facilities and Areas Sub-Committee (FASC) Task: N/A

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: REPAIR AIRCRAFT MAINTENANCE HANGAR, B1732		
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 211111	7. PROJECT NUMBER: F21R173	8. PROJECT COST (\$000) 8,000	
9. COST ESTIMATES:				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITY				5,940
AIRCRAFT MAINTENANCE HANGAR (211-111)	SM	2,689	2,116	5,690
CYBERSECURITY	LS			250
SUPPORTING FACILITIES				1,250
UTILITIES	LS			395
SITE IMPROVEMENTS	LS			105
PASSIVE FORCE PROTECTION MEASURES	LS			145
COMMUNICATIONS	LS			295
ELECTRICAL	LS			310
ESTIMATED CONTRACT				7,190
COST CONTINGENCY (5%)				360
SUBTOTAL				7,550
SUPERVISION, INSPECTION & OVERHEAD - 6.0%				453
TOTAL REQUEST				8,003
TOTAL REQUEST (ROUNDED)				8,000
EQUIPMENT FROM OTHER APPROPRIATIONS				450
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
<p>Utilize host-nation funding to repair aircraft maintenance hangar Building 1732, its latrine facility Building 1736, and its mechanical room Building 1737. This project includes sustainment repair work for the following principal features to the maintenance hangar B1732: repair roof structure/exterior; repair interior offices and storage areas by replacement; replace wall and floor finishes and ceilings in offices; replace the Heating, Ventilation, and Air Conditioning (HVAC) system including water lines, piping ductwork and controls & accessories; replace fire protection system; replace electrical panel boards and wiring, lighting fixtures, fire detection system and communication systems; replace hangar door track; repair hanger floor; replace eyewash station; remove asbestos; restore all areas affected by this project. This project includes sustainment repair work on the following principal features to B1732's latrine facility B1736: repair exterior/roof; replace wall and floor finishes and ceilings; replace all plumbing fixtures, vanity cabinets, and all other accessories; replace domestic water lines, and sanitary sewer lines; replace lighting fixtures with light-emitting diodes; restore all areas affected by this project. This project includes sustainment repair work on the following principal features to B1732's hot water boiler room facility B1737: replace hot water boilers; replace lighting fixtures with light-emitting diodes; restore all areas affected by this project. This project will comply with applicable Department of Defense (DoD), Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective.</p>				

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: REPAIR AIRCRAFT MAINTENANCE HANGAR, B1732
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 211111	7. PROJECT NUMBER: F21R173
8. PROJECT COST (\$000) 8,000		
<p>danger. This project corrects a Fire Safety Deficiency (FSD) code "1" that has been assigned to this facility since 16 July 2015. The building was constructed in 1953 and has had no major renovations since its original completion. HVAC systems, and electrical systems are worn or badly deteriorated due to age. The interior architecture aspect of the building such as ceilings, wall finishes, and floor coverings in offices, latrines, and storage areas are worn and deteriorated. Existing steam boilers in the central mechanical room frequently break down and hamper the maintenance crews as they continue to sustain and prepare aircraft 24-hours a day; the conveying water pipes are similarly aged. The continuation of this situation will lead to mission disruption and inefficiencies.</p>		
<p>IMPACT IF NOT PROVIDED: This project provides mission readiness required to "fight tonight" and "start the fight". Without immediate action personnel, aircraft, and valuable resources will continue to be at risk due to increase fire risk. Due to the nature of the operations, rapid evacuation of aircraft is a challenge due to the condition of the aircraft and amount of equipment attached to the aircraft at any time. Without a fire suppression system, loss of valuable combat assets as well as the possible loss of life would be imminent. Additionally, repairing the HVAC system will better protect the interior finishes from mildew and mold growth, as well as provide cleaner air to the facility. The current state of the buildings is not in compliance with Unified Facilities Criteria 3-600-01, Unified Facilities Criteria 4-211-01 and National Fire Protection Association (NFPA) 101, which mandate fire suppression systems in areas such as aircraft shelters and where flammable materials are stored.</p>		
<p>ADDITIONAL:</p>		
<p>A. JOINT USE CERTIFICATE: For United States exclusive use but can be used on an "as available" basis; however, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components.</p>		
<p>B. HOST NATION: This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. The possibility of Host Nation funding has been addressed to support this requirement.</p>		
<p>C. PHYSICAL AND CYBER SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included. This project aligns with HQ USAF/A4C MILCON Programming Guidance Memo for the Cybersecurity of Facility Related Control Systems, 11 January 2019.</p>		
<p>D. ANTITERRORISM/FORCE PROTECTION: All of the 21 Building Standards for Antiterrorism/Force Protections (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in Unified Facilities Criteria 4-010-01, dated 9 February 2012, change 1, 1 Oct 2013. All facilities will meet current Unified Facilities Criteria 4-010-01 standards for</p>		

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: REPAIR AIRCRAFT MAINTENANCE HANGAR, B1732
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 211111	7. PROJECT NUMBER: F21R173
		8. PROJECT COST (\$000) 8,000
<p>buildings and site. Additional Antiterrorism/Force Protection site features will be included such as concrete or metal pop-up bollards and barriers that are at least eight inches high in relation to road level to ensure stand-off distance is met in accordance with the reference above. Major Antiterrorism/Force Protection building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.</p> <p>E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. This facility shall be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the current version of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1 or the International Energy Conservation Code, as appropriate. All equipment going into this facility must be Energy Star rated or on the Federal Energy Management Program (FEMP) approved list. All utilities shall be metered using advanced meters as defined by the Federal Energy Management Program.</p> <p>F. Full fire projection is required by regulation and Unified Facilities Criteria 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the fire alarm computer located at the fire department emergency communication center through the use of a building transmitter installed meeting the building design.</p> <p>G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards and the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the Air Force Civil Engineer Center. The design must comply with Osan Air Base's Installation Planning Standards.</p> <p>H. Comprehensive interior design package for the Architectural & Engineering (AE) firm to complete as required by Unified Facilities Criteria 3-120-10.</p> <p>I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.</p>		

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: REPAIR AIRCRAFT MAINTENANCE HANGAR, B1732
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 211111	7. PROJECT NUMBER: F21R173
8. PROJECT COST (\$000) 8,000		
<p>J. Flood Plain Statement: This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facility and any flood-susceptible utilities above the 100-year flood level. This is a non-mission critical facility. The facility and any flood-susceptible utilities will be constructed a minimum of two feet above the 100-year flood elevation.</p> <p>K. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>L. 51st Fighter Wing Base Civil Engineer: 011-82-31-661-4312.</p> <p>M. This is all repair work for the following space: Aircraft Maintenance Hangar B1732 (211-111): 2,536 Square Meter = 27,300 Square Feet, Latrine Facility B1736 (723-392): 44 Square Meter = 474 Square Feet, Boiler Room B1737 (821-117): 109 Square Meter = 1,171 Square Feet.</p>		

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: REPAIR AIRCRAFT MAINTENANCE HANGAR, B1732	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 211111	7. PROJECT NUMBER: F21R173	8. PROJECT COST (\$000) 8,000
12. SUPPLEMENTAL DATA:			
13. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	JUL 2018 (O&M Funds)		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete	30%		
(e) Date 35% Designed	JAN 2019		
(f) Date Design Complete	OCT 2023		
(g) Energy Study/Life-Cycle analysis was/will be performed	YES		
(2) Basis:			
(a) Standard or Definitive Design -	YES		
(b) Where Design Was Most Recently Used -	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e) :	(\$000)		
(a) Production of Plans and Specifications	0		
(b) All other Design Costs	0		
(c) Total	0		
(d) Contract	0		
(e) In-house	0		
(4) Construction Start	24-Apr		
(5) Construction Completion	26-Jul		
b. Equipment associated with this project provided from other appropriations:			
		Fiscal Year	
Equipment Nomenclature	Procuring Appropriation	Appropriated or Requested	Cost (\$000)
Furniture, Fixture & Equip	3080	2025	350
Communication Equipment	3080	2025	100
c. Explosive Safety Quantity-Distance (Q-D) Siting: N/A Department of Defense Explosive Safety Board (DDESB): N/A			
d. Facilities and Areas Sub-Committee (FASC) Task: N/A			

d1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: UPGRADE ELECTRICAL DISTRIBUTION EAST, PH2		
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 812225	7. PROJECT NUMBER: F17R720	8. PROJECT COST (\$000) 46,000	
9. COST ESTIMATES:				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITY				30,315
PRIMARY DISTRIBUTION LINE UG (812-225)	LM	16,871	1,548	(26,116)
SECONDARY DISTRIBUTION LINE UG (812-226)	LM	1,680	1,548	(2,601)
SCADA COMMUNICATIONS SYSTEM	LS			(1,000)
CYBERSECURITY	LS			(598)
SUPPORTING FACILITIES				11,225
PAVEMENTS	LS			(1,172)
SITE IMPROVEMENTS	LS			(1,748)
UTILITIES	LS			(838)
COMMUNICATIONS SUPPORT	LS			(771)
SECURITY LIGHTING	LS			(1,340)
FIBER OPTIC CABLING	LS			(3,816)
TEMPORARY INFRASTRUCTURE IN CONSTRUCTION	LS			(569)
REMOVAL OF ELECTRICAL AND CATV SYSTEMS	LS			(972)
ESTIMATED CONTRACT				41,540
COST CONTINGENCY (5%)				2,077
SUBTOTAL				43,617
SUPERVISION, INSPECTION & OVERHEAD - 6.0%				2,617
TOTAL REQUEST				46,234
TOTAL REQUEST (ROUNDED)				46,000
EQUIPMENT FROM OTHER APPROPRIATIONS				(2,000)
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
Utilize host-nation funding to add/alter Osan Air Base (AB)'s existing overhead electrical distribution system with an underground distribution system on the south east portion of base. This project will demolish an existing overhead primary and secondary electrical distribution system. The project will include underground primary and secondary electrical lines, loop connection of all feeders at substation #2 with substation #3, replacement of aged transformers, replacement of aged or air insulated switches with high fire-point fluid insulated switches, modification of existing Supervisory Control And Data Acquisition (SCADA) system and connecting all field switches and transformers to SCADA, necessary repair of existing substation, various utility work, security street lighting, infrastructure for Electric Vehicle charging stations (min.10% of parking spots), electric bike charging stations, bike shed, installation of new fiber optic cabling to replace existing pole-mounted cable television fiber lines, transportation of excess soil to separate location on installation, remediation of asbestos cement conduit lines, concrete ducts and manhole installation, shoring and dewatering of underground infrastructure, site				

d1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: UPGRADE ELECTRICAL DISTRIBUTION EAST, PH2	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 812225	7. PROJECT NUMBER: F17R720	8. PROJECT COST (\$000) 46,000
<p>improvements, pavements, communications infrastructure and all necessary supporting work to deliver a complete and usable electrical distribution system. The system should be compatible with applicable Department of Defense (DoD), Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria (UFC) 1-200-02. This includes preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facilities Criteria (UFC) 1-200-02 is partially compliant or not applicable. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01.</p>			
<p>11. REQUIREMENT: REQ: 18,551 LM ADQT: 0 SUBSTD: 18,551 LM</p>			
<p>PROJECT: Upgrade Electrical Distribution System on East Area, Ph2 (Current Mission).</p>			
<p>REQUIREMENT: This project is required to provide a reliable, safe, and resilient power system with Supervisory Control And Data Acquisition System (SCADA) to support base and force sustainment. Addition/alteration of the base electrical distribution system by replacing existing overhead lines to underground lines including necessary repairs and updating drainage in conjunction with providing new underground utilities will power existing Fighter Wing, Mission Support Group, Civil Engineer, Force Support, Security Forces, and other community support missions. An underground distribution system requires less maintenance, is more reliable, and is storm resistant which makes it more resilient during armistice or contingency operations. Dormitories, schools, squadron facilities, and electrically operated equipment have been newly constructed or installed on Osan Air Base (AB) over several decades. However, the base electrical distribution system was not concurrently upgraded, thus leaving the overall system totally inadequate for Air Component Command's Command and Control and ability to sustain personnel and base support operations.</p>			

d1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: UPGRADE ELECTRICAL DISTRIBUTION EAST, PH2	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 812225	7. PROJECT NUMBER: F17R720	8. PROJECT COST (\$000) 46,000

CURRENT SITUATION:

The electrical system must be improved in order to ensure resilient and reliable power for essential peninsula-wide combat capabilities. Unscheduled power outages due to deteriorating distribution systems are routine at Osan AB. Between 2014 and 2019, there were 160 work orders submitted for the east side of the electrical distribution system, 64 of which were unscheduled power outages. Emergency repairs were provided by the Civil Engineer Squadron at a total of 3,131 man-hours, 45 overtime hours, and an expense of \$369,200 for the procurement of parts. 2020-2021 had 32 unscheduled power outages and 2022 has had 12 between January and April. Each year the number of outages continues to increase. This increase in annual outages is directly attributable to the deteriorated condition of the overhead electrical distribution system and points towards increasingly unreliable service. Outages last a significant amount of time and affect large areas. These outages cause fires, degrade mission capability, and create unsafe conditions for personnel. No major repairs have been made with the exception of piecemeal upgrades and routine maintenance. Existing above ground system poles, hardware, and lines are over 30 years of age, parts are obsolete, and the system is beyond its intended service life. In addition to system age, system design and weather events are also major contributing factors that cause frequent outages. During severe winter months, the switches freeze and become inoperable. Overhead lines and associated equipment attracts birds, which nest on the energized wires, contributing to power outages. These outages severely affect the ability of the power system to provide reliable and resilient power for operations at Osan Air Base (AB). These outages also cause fire, degrade "Fight tonight" readiness capability, and create unsafe conditions for personnel.

IMPACT IF NOT PROVIDED:

The existing electrical system will continue to operate below acceptable levels for system protection and reliability. The existing electrical distribution system will continue to deteriorate such that the system may fail, resulting in a longer power outage affecting portions of the base. The effectiveness and efficiency for base sustainment capabilities will be significantly degraded. Phase 2 supports the 7th Air Force headquarters, the 51st Fighter Wing headquarters and emergency operations center, the base communications hub, and the medical complex, affecting Osan Air Base's ability to "Fight Tonight." A reliable electrical system is key for the base personnel to defend the freedom of 50 million people. Without a full re-capitalization, small repair efforts at critical nodes are our only recourse. For example, \$800,000 was spent to replace a bare copper wire with insulated and to replace aged electrical distribution equipment in 2022 and another \$500,000 is planned for 2023 to replace 5 switches and repair 2 poles. These efforts do not address system-wide degradation and are only stopgap measures.

d1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: UPGRADE ELECTRICAL DISTRIBUTION EAST, PH2	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 812225	7. PROJECT NUMBER: F17R720	8. PROJECT COST (\$000) 46,000

ADDITIONAL:

A. JOINT USE CERTIFICATE: For United States (US) exclusive use, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components.

B. HOST NATION: This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. The possibility of Host Nation funding has been addressed to support this requirement.

C. PHYSICAL SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included.

D. ANTI TERRORISM/FORCE PROTECTION: All of the 21 Building Standards for Antiterrorism/Force Protections (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in Unified Facilities Criteria (UFC) 4-010-01. All facilities will meet current Unified Facilities Criteria (UFC) 4-010-01 standards for buildings and site. Major Antiterrorism/Force Protections (AT/FP) building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.

E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. This facility shall be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the current version of the ASHRAE Standard 90.1 or the International Energy Conservation Code, as appropriate. All equipment going into this facility must be Energy Star rated or on the Federal Energy Management Program (FEMP) approved list. All utilities shall be metered using advanced meters as defined by Federal Energy Management Program (FEMP).

F. Full fire protection is required by regulation and Unified Facilities Criteria (UFC) 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria (UFC) 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the computerized D-21 Monaco fire alarm computer located at the fire department communication center through the use of a BT-XM building transmitter installed at the building design.

d1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: UPGRADE ELECTRICAL DISTRIBUTION EAST, PH2	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 812225	7. PROJECT NUMBER: F17R720	8. PROJECT COST (\$000) 46,000

G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. The design must comply with Osan Air Base (AB)' Installation Planning Standards.

H. Comprehensive interior design package for the Architect Engineer (AE) to complete as required by Unified Facilities Criteria (UFC) 3-120-10.

I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.

J. Flood Plain Statement: This project does not fall within or partly within the 100-year flood plain.

K. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.

L. The supporting facilities' costs exceed 25% of the primary facilities' costs due to extensive utilities, security lightings, CATV cables and communication runs, as well as associated site work by installing underground electrical duct banks including spoils, concrete, excavation and backfilling.

M. Base Civil Engineer: 011-82-31-661-4312.

N. Add/alter electrical distribution system: 18,551 Linear Meter = 60,862 Linear Feet.

d1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: UPGRADE ELECTRICAL DISTRIBUTION EAST, PH2	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 812225	7. PROJECT NUMBER: F17R720	8. PROJECT COST (\$000) 46,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-Bid-Build
(b) Date Design Started	Jun 2015
(c) Parametric Cost Estimates used to develop costs	YES
(d) Percent Complete	15
(e) Date 35% Designed	Jan 2024
(f) Date Design Complete	Sep 2024
(g) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e) : (\$000)

(a) Production of Plans and Specifications	0
(b) All other Design Costs	0
(c) Total	0
(d) Contract	0
(e) In-house	0

(4) Construction Start 25-Apr

(5) Construction Completion 27-Jul

b. Equipment associated with this project provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated or Requested	Cost (\$000)
Electric Vehicle Charger	3080	2026	1,500
Communication Equipment	3080	2026	500

c. Explosive Safety Quantity-Distance (Q-D) Siting: N/A
Department of Defense Explosive Safety Board (DDESB): N/A

d. Facilities and Areas Sub-Committee (FASC) Task: N/A

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: WATER SUPPLY TREATMENT FACILITY		
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 841169	7. PROJECT NUMBER: F21R511	8. PROJECT COST (\$000) 22,000	
9. COST ESTIMATES:				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITY				15,508
WATER SUP BLDG/SHOP (841169)	SM	881	9,976	(8,789)
ADMIN/MAINT BLDG (610123)	SM	675	8,975	(6,058)
COVERED OUTSIDE STORAGE SHED (219946)	SM	200	802	(160)
CYBERSECURITY	LS			(250)
SCADA COMMUNICATIONS SYSTEM	LS			(250)
SUPPORTING FACILITIES				3,888
SITE IMPROVEMENTS	LS			(595)
PAVEMENTS	LS			(323)
UTILITIES	LS			(1,103)
SITE COMMUNICATIONS	LS			(208)
SITE ELECTRICAL	LS			(1,137)
BACKUP POWER GENERATOR/FUEL TANK	KW	500	628	(314)
DEMOLITION	SM	1,400	149	(209)
ESTIMATED CONTRACT				19,396
COST CONTINGENCY (5%)				970
SUBTOTAL				20,366
SUPERVISION, INSPECTION & OVERHEAD - 6.0%				1,222
TOTAL REQUEST				21,588
TOTAL REQUEST (ROUNDED)				22,000
EQUIPMENT FROM OTHER APPROPRIATIONS				461
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
Utilize host-nation funding to build a new Water Supply Treatment facility with maintenance shops and a new Administrative/Maintenance Building at Osan Air Base. The water supply treatment facility will boost city water chlorine residual and adjust the Potential of Hydrogen (pH) in the water supplied from the Pyeongtaek intertie at the Morin Gate. An additional (new) intertie will be installed from the city water main near the main gate to the new water supply treatment facility to provide redundant water service. The project will also install a pressure reducing station and add an automated control valve at the new water supply treatment facility. The maintenance shop facilities will include different spaces such as training rooms, offices, restrooms, communication areas, and covered outside storage space. Both new buildings will have the standard construction consisting of substructure, shell, interior construction, plumbing, HVAC (heating, ventilation, and air conditioning), fire protection, electrical systems, security/street lights and Supervisory Control and Data Acquisition (SCADA) and communication systems. The existing backup generator and fuel tank for the water supply treatment facility will be replaced with a new dual fuel generator and tank in accordance with Unified Facilities				

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: WATER SUPPLY TREATMENT FACILITY	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 841169	7. PROJECT NUMBER: F21R511	8. PROJECT COST (\$000) 22,000
<p>Criteria (UFC) 3-520-07 and Air Force Instruction (AFI) 32-1062 for classification. The project will also include all necessary utilities, site improvements, pavements, parking spaces, communications, infrastructure, retaining walls, erosion control system on slopes and all necessary supporting work for a complete and usable potable water supply system. Existing asphalt pavement areas will be replaced with new asphaltic concrete pavement and striped for parking and roadway. Site work will also include demolition of eight (8) concrete structures. Facilities will be designed as permanent construction in accordance with the Department of Defense (DoD) Unified Facilities Criteria (UFC) 1-200-01. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project will comply with Department of Defense antiterrorism/force protection (AT/FP) requirements per Unified Facility Criteria 4-010-01. The project will demolish buildings 352 (264 Square Meters), 353 (72 Square Meters), 354 (638 Square Meters), 357 (16 Square Meters), 358 (260 Square Meters) 359 (130 Square Meters), 361 (50,000 Gal Water Tank), and 369 (21 Square Meters) (Total: 1,400 Square Meters).</p> <p>Air Conditioning: 50 Tons</p> <p>11. REQUIREMENT: REQ: 1,756 SM ADQT: 0 SM SUBSTD: 1,400 SM</p> <p>PROJECT: Construct a Water Supply Treatment Facility (Current Mission)</p> <p>REQUIREMENT: This project is to provide a reliable, safe, and resilient potable water treatment and supply system is required to improve resilience. This water treatment and supply construction project is particularly important to improve the readiness by providing continuous reliable potable water and fire protection system to the air operations center, aircraft maintenance facilities, headquarters buildings, communications hub facilities, collective protection system (CPS) dormitories, as well as a plethora of other critical base functions. This project is to sustain installation-wide infrastructure, affecting multiple large units and a very large number of personnel (8000+) and add operational resiliency to ensure installation-wide mission command and enable "Flight Tonight" operations. A contingent water source is critical in both armistice and contingency operations.</p>			

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: WATER SUPPLY TREATMENT FACILITY	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 841169	7. PROJECT NUMBER: F21R511	8. PROJECT COST (\$000) 22,000

CURRENT SITUATION:

The Water Treatment Plant (WTP) building 354 was built and designed to treat the ground water produced from the wells. The WTP was built in 1960 and renovated & modernized in 2007 to be used for contingency operations utilizing well water. There was a structural fire on 19 April 2021 and the entire second floor and roof on the WTP has collapsed and the facility is a total loss. The base has completely lost a potable water capability during contingency water operations.

IMPACT IF NOT PROVIDED:

If this project is not provided, personnel, aircraft, and valuable resources will continue to be at risk during contingencies or in the event that city water becomes unavailable, which renders fire protection systems on valuable assets inoperable. Potable water is vital for Osan Air Base's personnel to be able to "start the fight" and "fight tonight". Airmen cannot survive in any environment without a potable water source, especially not in a wartime or contingency scenario. If a new water supply treatment plant is not constructed, war fighting capabilities will be significantly degraded, affecting Osan Air Base's ability to "Fight Tonight."

ADDITIONAL:

- A. **JOINT USE CERTIFICATE:** No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.
- B. **HOST NATION:** This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future.
- C. **PHYSICAL SECURITY:** This project has been coordinated with the installation physical security plan, and all physical security measures are included.
- D. **ANTI-TERRORISM/FORCE PROTECTION:** All of the 21 Building Standards for Anti-terrorism/Force Protections (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in Unified Facilities Criteria (UFC) 4-010-01. All facilities will meet current Unified Facilities Criteria (UFC) 4-010-01 standards for buildings and site. Major Anti-terrorism/Force Protections (AT/FP) building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.
- E. **SUSTAINABLE DESIGN AND DEVELOPMENT (SDD):** Sustainable principles shall be integrated into the design, development, and construction of this project. This facility shall be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the current version of the ASHRAE Standard 90.1 or the International Energy Conservation Code, as appropriate. All equipment going into this facility must be Energy Star rated

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: MARCH 2023
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: WATER SUPPLY TREATMENT FACILITY	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 841169	7. PROJECT NUMBER: F21R511	8. PROJECT COST (\$000) 22,000
<p>or on the Federal Energy Management Program (FEMP) approved list. All utilities shall be metered using advanced meters as defined by Federal Energy Management Program (FEMP).</p>			
<p>F. Full fire protection is required by regulation and Unified Facilities Criteria (UFC) 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria (UFC) 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the computerized D-21 Monaco fire alarm computer located at the fire department communication center through the use of a BT-XM building transmitter installed at the building design.</p>			
<p>G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. The design must comply with Osan Air Base (AB) Installation Planning Standards.</p>			
<p>H. Comprehensive interior design package for the Architectural & Engineer (AE) firm to complete as required by Unified Facilities Criteria (UFC) 3-120-10.</p>			
<p>I. Flood Plain Statement: This project does not fall within or partly within the 100-year flood plain.</p>			
<p>J. 51st Fighter Wing Base Civil Engineer: 011-82-31-661-4312.</p>			
<p>K. Water Supply Treatment Plant: 881 Square Meter = 9,483 Square Feet. Maintenance Shop And Storage Facilities: 675 Square Meter = 7,266 Square Feet. Demolish: 1,400 Square Meter = 15,071 Square Feet.</p>			

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: MARCH 2023
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5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 841169	7. PROJECT NUMBER: F21R511
		8. PROJECT COST (\$000) 22,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-Bid-Build
(b) Date Design Started	May 2023
(c) Parametric Cost Estimates used to develop costs	YES
(d) Percent Complete	15
(e) Date 35% Designed	Jan 2024
(f) Date Design Complete	Sep 2024
(g) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e) : (\$000)

(a) Production of Plans and Specifications (TYP. 6% OF PA)	1,320
(b) All other Design Costs	660
(c) Total	1,980
(d) Contract	1,650
(e) In-house	330

(4) Construction Start 25-Apr

(5) Construction Completion 27-Jul

b. Equipment associated with this project provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated or Requested	Cost (\$000)
Furniture, Fixture & Equip	3080	2026	461
Communication Equipment	3080	2026	250

**c. Explosive Safety Quantity-Distance (Q-D) Siting: N/A
Department of Defense Explosive Safety Board (DDESB): N/A**

d. Facilities and Areas Sub-Committee (FASC) Task: N/A

1. COMPONENT Air Force	POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA		2. DATE MARCH 2023	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Wroclaw Airport, Poland		4. PROJECT TITLE Aerial Port of Debarkation Ramp		
5. PROGRAM ELEMENT	6. CATEGORY CODE 113-321	7. PROJECT NUMBER WRO-1101-PL	8. PROJECT COST (\$000) 59,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				
PAVED APRON (113-321)	SM	85,028	424.59	51,339 (36,102)
PAVED SHOULDER (116-642)	SM	18,020	243.79	(4,393)
DEICING	LS	-	-	(9,592)
ATFP MEASURES (2%)	LS	-	-	(1,002)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS	-	-	(250)
SUPPORTING FACILITIES				
SITE PREPARATION/DEMOLITION	LS			795 (795)
SUBTOTAL				
CONTINGENCY (5.0%)				
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION</p> <p>DESCRIPTION: Construct an aircraft parking apron and paved shoulders required to accommodate cargo aircraft at Wroclaw Airport, Poland. Supporting facilities include all utilities, subgrade work, drainage, airfield lighting, pavement markings and associated facilities and other necessary airfield support. Pavement for the parking apron consists of a rigid concrete layer, drainage layer, sub-base separation layer, compacted subgrade, earthwork, and grading. The pavement for the paved shoulders consists of flexible asphalt pavement, aggregate base, drainage layer, sub-base separation layer, compacted subgrade, earthwork, and grading. The parking apron will be designed to support four (4) C-5M Galaxy aircraft. All work carried out shall include the requirements as identified in the AF813-O Request for Overseas Environmental Impact Analysis and as stated in the Certificate of Compliance for Critical Planning Actions. This project shall be designed and constructed in accordance with Department of the Air Force Manual 32-1084 Facility Requirements, Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, as applicable. This project will incorporate all required sustainable principles, and these shall be integrated into the project design, development, and construction in accordance with Executive Orders, Unified Facility Criteria and other applicable laws. All work carried out must comply with Department of Defense Anti-Terrorism Force Protection requirements and all other relevant Unified Facilities Criteria, Air Force Instructions, National Fire Protection Association regulations, Polish Building Regulations, and Wroclaw Airport Standards. All work associated with this project shall comply with United States Air Force and Host Nation regulations and agreements. All known alternatives were considered during the development of this project.</p>				

Previous editions are obsolete.

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3. INSTALLATION AND LOCATION Wroclaw Airport, Poland		4. PROJECT TITLE Aerial Port of Debarkation Ramp		
5. PROGRAM ELEMENT	6. CATEGORY CODE 113-321	7. PROJECT NUMBER WRO-1101-PL	8. PROJECT COST (\$000) 59,000	
<p>11. REQUIREMENT: 85,028SM Adequate: OSM Substandard: OSM</p> <p>PROJECT: Construct an aircraft parking apron capable of supporting four C-5M Galaxy aircraft. (New Mission)</p> <p>REQUIREMENT: This project is required by USAFE-AFAFRICA missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020 and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. This project is required to provide adequate aircraft parking for military cargo aircraft at Wroclaw Airport, Poland (WRO) and the APOD - Aerial Port of Debarkation mission for personnel and cargo as part of PPI which also includes AT/FP upgrades, connecting taxiways, an APOD ramp, hot cargo pads and munitions storage and handling areas, a contingency Beddown area, a passenger terminal, aerial port facilities, armories, a dormitory with laundry, a renovated dining facility, a medical and dental clinic space, administrative spaces, post office, fitness center, vehicle maintenance and motor pool area, and a railhead with rail extensions. This aircraft parking apron will support the primary location for APOD by USAFE-AFAFRICA in Poland and enduring rotational force missions. The aircraft parking apron will increase the capability of WRO to support large military cargo aircraft and provide an increased throughput for military personnel and materiel to support operational forces in the Area of Responsibility (AOR) and worldwide. The parking apron will include all parking positions, taxi lanes, apron exits and entrances, paved shoulders, and all necessary apron lighting.</p> <p>CURRENT SITUATION: Wroclaw Airport (WRO) is a commercial airport that offers 20 flights per day to main hubs throughout Europe. The 8th Airlift Base of the Polish Air Force is currently located on property east of the main WRO operational area. The Contingency Response Group (CRG) is the operational unit of the Polish Air Force that utilizes the military footprint. This unit is responsible for processing and maneuvering both personnel and cargo to a variety of locations throughout the Area of Responsibility (AOR). The CRG also provides aircraft, airfield security, and air traffic combat controller capabilities. There are two existing hangars within the Polish Air Force property that are used for cargo staging and marshalling and currently Apron 1 is utilized for the parking of Polish and United States Air Force cargo aircraft. Apron 1 is located on the commercial WRO property adjacent to the former airport terminal. There is currently an agreement in place for Ryan Air to occupy this portion of the airport. Apron 1 is adjacent to two existing Ryan Air aircraft maintenance hangars and there are plans for two additional hangars to be constructed near these hangars. With these moves scheduled to occur on and around the only location at the airport to accommodate large airlift airframes, a new cargo aircraft operational area is needed at WRO to meet the APOD requirements of PPI.</p> <p>An approximately 75-hectare portion of airport property located southeast of the current CRG operational area has been identified to accommodate the requirements of the APOD footprint and additional Polish Air Force CRG requirements. A new aircraft parking ramp for four (4) C-5M Galaxy aircraft is proposed in this area, to support U.S. missions in the AOR. The aircraft parking apron will be sited adjacent to a proposed passenger terminal and aerial port facility. The aircraft parking positions and taxilanes on the parking apron will provide adequate wingtip clearance to allow all aircraft to taxi under their own power. The apron will provide aircraft pavement to support aircraft maintenance, servicing, fueling, cargo and passenger loading/unloading, and pre-/post-flight operational checks. Within the military footprint of WRO all airfield pavements will be constructed to meet the aircraft parking and taxiing requirements established in USAFE-AFAFRICA Instruction 32-1007 Airfield and Heliport Planning and Design and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields. All airfield pavements constructed outside the military area and within the WRO operational area will meet aerodrome requirements established in International Civil Aviation Organization Annex 14 Volume 1 Aerodromes Design and Operations.</p>				

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3. INSTALLATION AND LOCATION Wroclaw Airport, Poland			4. PROJECT TITLE Aerial Port of Debarkation Ramp	
5. PROGRAM ELEMENT	6. CATEGORY CODE 113-321	7. PROJECT NUMBER WRO-1101-PL	8. PROJECT COST (\$000) 59,000	

IMPACT IF NOT PROVIDED: If this project is not provided there will not be adequate airfield pavement area at Wroclaw Airport to accommodate large military airlift airframes and the associated movement of passengers and materiel into Poland and the Area of Responsibility. Without this aircraft parking apron military cargo and personnel processing capacity in Poland will decrease, the timeframes for U.S. and multi-national training exercises will increase, and theater presence and operational readiness will be negatively impeded. The APOD mission at Wroclaw Airport cannot function on an enduring basis without this project.

ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, International Civil Aviation Organization Annex 14 Volume 1 Aerodromes Design and Operations, as applicable.

STANDARD DESIGN: This design shall conform to criteria established in the Air Force Corporate Facilities Standards (AFCFS), the Installation Facilities Standards (IFS) but will not employ a standard facility design because there is no Air Force standard facility design for this specific project and there is no applicable standard design from the Host Nation.

ECONOMIC ANALYSIS (EA) STATEMENT: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.

MASTER PLAN STATEMENT: Facility is sited in accordance with current Wrocław Airport plans, the USAFE-AFAFRICA PPI Vision Plan, and the EDCA, and is within a compatible land use area.

JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.

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1. COMPONENT Air Force	POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA		2. DATE MARCH 2023	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Wroclaw Airport, Poland			4. PROJECT TITLE Aerial Port of Debarkation Ramp	
5. PROGRAM ELEMENT	6. CATEGORY CODE 113-321	7. PROJECT NUMBER WRO-1101-PL	8. PROJECT COST (\$000) 59,000	
<p>CONVERSIONS</p> <p>PRIMARY FACILITIES</p> <p>APRON (113-321) SHOULDERS, 85,028 SM to 101,693 SY PAVED (116-642) 18,020 SM to 21,552 SY</p>				
<p>12. SUPPLEMENTAL DATA</p> <p>PLANNING AND DESIGN DATA (ESTIMATE)</p> <p>(1) Status:</p> <p>(a) Type of Design Design-Bid-Build</p> <p>(b) Date Design Started 01 OCT 2022</p> <p>(c) Parametric Cost Estimates Used to develop costs / YES</p> <p>(d) Percent Complete as of 01 JAN 2023 0%</p> <p>(e) Date 35% Designed 01 FEB 2023</p> <p>(f) Date Design Complete 01 JUN 2023</p> <p>(g) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design NO</p> <p>(b) Where Design Was Most Recently Used N/A</p> <p>(3) Total Cost / (c) = (a) + (b) or (d) + (e) (\$000)</p> <p>(a) Production of Plans and Specifications (6%) (2,760)</p> <p>(b) All Other Design Costs (3%) (1,380)</p> <p>(c) Total 4,140</p> <p>(d) Contract (7.5%) (3,450)</p> <p>(e) In-house (1.5%) (690)</p> <p>(4) Construction Start 24-FEB</p> <p>(5) Construction Completion 26-DEC</p>				

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3. INSTALLATION AND LOCATION Wroclaw Airport, Poland			4. PROJECT TITLE Aerial Port of Debarkation Ramp	
5. PROGRAM ELEMENT	6. CATEGORY CODE 113-321	7. PROJECT NUMBER WRO-1101-PL	8. PROJECT COST (\$000) 59,000	

b. Equipment associated with this project provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROP	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES & EQUIPMENT	N/A	N/A	N/A
COMMUNICATION EQUIPMENT	N/A	N/A	N/A
OTHER	N/A	N/A	N/A

1. COMPONENT Air Force	POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA		2. DATE MARCH 2023	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Wroclaw Airport, Poland (WRO)		4. PROJECT TITLE Taxiways to Aerial Port of Debarkation Ramp		
5. PROGRAM ELEMENT	6. CATEGORY CODE 112-211	7. PROJECT NUMBER WRO-1102-PL	8. PROJECT COST (\$000) 39,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				
TAXIWAY (112-211)	SM	40,676	425.23	33,855 (17,297)
SHOULDERS, PAVED (116-642)	SM	55,154	243.79	(13,446)
TAXIWAY LIGHTING (136-667)	M	3,764	585.36	(2,203)
ATFP MEASURES (2%)	LS			(659)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				
SITE PREPARATION/DEMOLITION	LS			918 (918)
SUBTOTAL				
CONTINGENCY (5.0%)				
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct aircraft taxiways and paved shoulders required to accommodate cargo aircraft at Wroclaw Airport, Poland. Supporting facilities include all utilities, subgrade work, drainage, airfield lighting, pavement markings and associated facilities and other necessary airfield support. Pavement for the taxiways consists of a rigid concrete layer, drainage layer, sub-base separation layer, compacted subgrade, earthwork, and grading. The pavement for the paved shoulders consists of flexible asphalt pavement, aggregate base, drainage layer, sub-base separation layer, compacted subgrade, earthwork, and grading. The aircraft pavement will be designed to support C-5M Galaxy aircraft. The construction of the new taxiway connections will require the rerouting of an existing access road to the southern portion of the airfield. The construction of this road will include all pavement, utilities, earthwork, grading, and demolition. All work carried out shall include the requirements as identified in the AF813-O Request for Overseas Environmental Impact Analysis and as stated in the Certificate of Compliance for Critical Planning Actions. This project shall be designed and constructed in accordance with Department of the Air Force Manual 32-1084 Facility Requirements, Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, and International Civil Aviation Organization Annex 14 Volume 1 Aerodromes Design and Operations, as applicable. This project will incorporate all required sustainable principles, and these shall be integrated into the project design, development, and construction in accordance with Executive Orders, Unified Facility Criteria and other applicable laws. All work carried out must comply with Department of Defense Anti-Terrorism Force Protection requirements and all other relevant Unified Facilities Criteria, Air Force Instructions, National Fire Protection Association regulations, Polish Building Regulations, and Wroclaw Airport Standards. All work				

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3. INSTALLATION AND LOCATION Wroclaw Airport, Poland (WRO)		4. PROJECT TITLE Taxiways to Aerial Port of Debarkation Ramp		
5. PROGRAM ELEMENT	6. CATEGORY CODE 112-211	7. PROJECT NUMBER WRO-1102-PL	8. PROJECT COST (\$000) 39,000	
associated with this project shall comply with United States Air Force and Host Nation regulations and agreements. All known alternatives were considered during the development of this project.				
11. REQUIREMENT: 40,676SM Adequate: OSM Substandard: OSM				
PROJECT: Construct aircraft taxiways to connect the APOD operational area to the existing taxiway network and runway. (New Mission)				
REQUIREMENT: This project is required by USAFE-AFAFRICA missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020 and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. This project is required to provide adequate ground movement of aircraft between the APOD operational area and runway at Wrocław Airport, Poland (WRO) and the APOD - Aerial Port of Debarkation mission for personnel and cargo as part of PPI and includes AT/FP upgrades, connecting taxiways, an APOD ramp, hot cargo pads and munitions storage and handling areas, a contingency Beddown area, a passenger terminal, aerial port facilities, armories, a dormitory with laundry, a renovated dining facility, a medical and dental clinic space, administrative spaces, post office, fitness center, vehicle maintenance and motor pool area, and a railhead with rail extensions. The connecting taxiways will serve to support the primary location for APOD by USAFE-AFAFRICA in Poland and enduring rotational force missions. The taxiways will provide two aircraft connections between the APOD aircraft parking apron and the runway at WRO. These taxiway connections will increase the capability of WRO to support large military cargo aircraft and provide an increased throughput for personnel and materiel to support operational forces in the Area of Responsibility (AOR) and worldwide. The connecting taxiways will meet all wingtip clearances and provide all necessary pavement, shoulders and utilities. Modifying the extension of the existing taxiway network as part of the investment plan is required and would greatly benefit the Port of Wrocław, aw Airport to support the US/POL mission; this is outside of this project's scope, but necessary to connect the APOD operational area to both runway thresholds.				
CURRENT SITUATION: Wrocław Airport (WRO) is a commercial airport that offers 20 flights per day to main hubs throughout Europe. The 8th Airlift Base of the Polish Air Force is currently co-located on property east of the main WRO operational area. The Contingency Response Group (CRG) is the operational unit of the Polish Air Force that utilizes the military footprint. This unit is responsible for processing and maneuvering both personnel and cargo to a variety of locations throughout the Area of Responsibility (AOR). The CRG also provides aircraft, airfield security, and air traffic combat controller capabilities. There are two existing hangars within the Polish Air Force property that are used for cargo staging and marshalling and currently Apron 1 is utilized for the parking of Polish and United States Air Force cargo aircraft. Apron 1 is located on the commercial WRO property adjacent to the former airport terminal. There is currently an agreement in place for Ryan Air to occupy this portion of the airport. Apron 1 is adjacent to two existing Ryan Air aircraft maintenance hangars and there are plans for two additional hangars to be constructed near these hangars. With these moves scheduled to occur on and around the only location at the airport to accommodate large airlift airframes, a new cargo aircraft operational area is needed at WRO to meet the APOD requirements of PPI.				
An approximately 75-hectare portion of airport property located southeast of the current CRG operational area has been identified to accommodate the requirements of the APOD footprint and additional Polish Air Force CRG requirements. A new aircraft parking ramp for four (4) C-5M Galaxy aircraft is proposed in this area, to support U.S. missions in the AOR. The aircraft parking apron will be sited adjacent to a proposed passenger terminal and aerial port facility. Connecting taxiways are required to provide adequate ground movement of aircraft between the APOD ramp and the WRO runway. With the construction of the new taxiways an existing road that				

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3. INSTALLATION AND LOCATION Wroclaw Airport, Poland (WRO)		4. PROJECT TITLE Taxiways to Aerial Port of Debarkation Ramp		
5. PROGRAM ELEMENT	6. CATEGORY CODE 112-211	7. PROJECT NUMBER WRO-1102-PL	8. PROJECT COST (\$000) 39,000	
<p>provides access to the General Aviation (GA) area located on the south side of the airfield will be impacted. This existing road will be demolished and relocated/reconstructed to provide adequate taxiway crossings for both connecting taxiways. Within the military footprint of WRO all airfield pavements will be constructed to meet the aircraft parking and taxiing requirements established in USAFE-AFAFRICA Instruction 32-1007 Airfield and Heliport Planning and Design and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields. All airfield pavements constructed outside the military area and within the WRO operational area will meet aerodrome requirements of Code F aircraft as established in International Civil Aviation Organization Annex 14 Volume 1 Aerodromes Design and Operations.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided there will not be any adequate military airfield pavement at Wroclaw Airport to connect the APOD aircraft parking apron with the existing runway and taxiway network at the airport. Without the connecting taxiways the military cargo and personnel processing capacity in Poland will decrease, timeframes for U.S. and multi-national training exercises will increase, and theater presence and operational readiness will be impeded. The APOD mission at Wroclaw Airport cannot function on an enduring basis without this project.</p> <p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, International Civil Aviation Organization Annex 14 Volume 1 Aerodromes Design and Operations, as applicable.</p> <p>STANDARD DESIGN: This design shall conform to criteria established in the Air Force Corporate Facilities Standards (AFCFS), the Installation Facilities Standards (IFS) but will not employ a standard facility design because there is no Air Force standard facility design for this specific project and there is no applicable standard design from the Host Nation.</p> <p>ECONOMIC ANALYSIS (EA) STATEMENT: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.</p> <p>MASTER PLAN STATEMENT: Facility is sited in accordance with current Wrocław Airport plans and is within a compatible land use area.</p> <p>JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.</p>				

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3. INSTALLATION AND LOCATION Wroclaw Airport, Poland (WRO)		4. PROJECT TITLE Taxiways to Aerial Port of Debarcation Ramp																														
5. PROGRAM ELEMENT	6. CATEGORY CODE 112-211	7. PROJECT NUMBER WRO-1102-PL	8. PROJECT COST (\$000) 39,000																													
<p>12. SUPPLEMENTAL DATA</p> <p>PLANNING AND DESIGN DATA (ESTIMATE)</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Type of Design</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td>01 OCT 22</td> </tr> <tr> <td>(c) Parametric Cost Estimates Used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023 / Procent</td> <td>0%</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>01 FEB 23</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>01 JUN 23</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td>N/A</td> </tr> </table> <p>(3) Total Cost / c) = (a) + (b) or (d) + (e) (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications (6%)</td> <td>(2,220)</td> </tr> <tr> <td>(b) All Other Design Costs (3%)</td> <td>(1,110)</td> </tr> <tr> <td>(c) Total</td> <td>3,330</td> </tr> <tr> <td>(d) Contract (7.5%)</td> <td>(2,775)</td> </tr> <tr> <td>(e) In-house (1.5%)</td> <td>(555)</td> </tr> </table> <p>(4) Construction Start 24-FEB</p> <p>(5) Construction Completion 26-DEC</p>					(a) Type of Design	Design-Bid-Build	(b) Date Design Started	01 OCT 22	(c) Parametric Cost Estimates Used to develop costs	YES	(d) Percent Complete as of 01 JAN 2023 / Procent	0%	(e) Date 35% Designed	01 FEB 23	(f) Date Design Complete	01 JUN 23	(g) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design	NO	(b) Where Design Was Most Recently Used	N/A	(a) Production of Plans and Specifications (6%)	(2,220)	(b) All Other Design Costs (3%)	(1,110)	(c) Total	3,330	(d) Contract (7.5%)	(2,775)	(e) In-house (1.5%)	(555)
(a) Type of Design	Design-Bid-Build																															
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Previous editions are obsolete.

1. COMPONENT Air Force	POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA		2. DATE MARCH 2023	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Wroclaw Airport, Poland (WRO)		4. PROJECT TITLE Taxiways to Aerial Port of Debarcation Ramp		
5. PROGRAM ELEMENT	6. CATEGORY CODE 112-211	7. PROJECT NUMBER WRO-1102-PL	8. PROJECT COST (\$000) 39,000	

b. Equipment associated with this project provided from other appropriations

EQUIPMENT NOMENCLATURE	PROCURING APPROP	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES & EQUIPMENT	N/A	N/A	N/A
COMMUNICATION EQUIPMENT	N/A	N/A	N/A
OTHER	N/A	N/A	N/A



Department of the Air Force

Military Family Housing

Fiscal Year (FY) 2024 Budget Estimates

**Justification Data Submitted to
Congress**

March 2023

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

MILITARY FAMILY HOUSING

	<u>Program (\$ in Thousands)</u>
FY 2024 Budget Request	\$551,483
FY 2023 Budget Request	\$588,010
FY 2023 Enactment*	\$28,800
FY 2023 Appropriation	\$616,810

NARRATIVE SUMMARY

* Funds provided by Congress in FY2023 for additional Family Housing Management and Privatization are one year appropriated funds and additional Construction Improvements and Planning and Design are five year appropriated funds.

This Military Family Housing budget request reflects the Air Force's commitment to ensure military personnel and their families have access to quality housing facilities and services. The Air Force relies on the local community to support military family housing needs. When community housing is unavailable or inadequate, the AF provides military family housing to support this requirement. We construct, replace, improve, or repair and maintain military family housing to meets contemporary standards.

The Air Force created the Family Housing Master Plan (FHMP) as the strategic planning and programming investment tool for government-owned, leased and privatized military family housing. This request funds the AF FHMP recommendations to sustain, improve and divest military family housing overseas, support privatized family housing, and lease family housing when necessary and fiscally appropriate.

Consistent with AF FHMP priorities, this budget provides a program that supports daily operations and the maintenance and repair of assets to sustain and prevent deterioration of our inventory. The operations, maintenance and leasing accounts predominantly support "must pay" requirements. These costs include service contracts, lease contracts, utilities, and essential maintenance to operate the units and contract funding to correct life safety, health, and facility preservation issues that cannot wait for family housing construction funding.

We respectfully request full support for the Air Force family housing needs presented herein.

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

FINANCIAL SUMMARY

**AUTHORIZATION FOR APPROPRIATION
REQUESTED FOR FY 2024:**

(\$000)

FUNDING REQUEST FOR FY 2024

Construction	\$0
Construction Improvements	\$229,282
Planning and Design	\$7,815
<u>Appropriation Request: Construction</u>	<u>\$237,097</u>
<u>Operations, Utilities, and Maintenance</u>	<u>\$277,440</u>
Operating Expenses	\$93,976
Utilities	\$48,054
Maintenance	\$135,410
Housing Privatization	\$31,803
Leasing - Worldwide	\$5,143
<u>Appropriation Request: O&M, Leasing, Housing Privatization</u>	<u>\$314,386</u>
<u>Appropriation Request</u>	<u>\$551,483</u>
Reimbursement Request	\$2,500
FY 2024 FAMILY HOUSING REQUEST	\$553,983

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DEPARTMENT OF AIR FORCE
FH-11 Inventory and Condition of Government-Owned, Family Housing Units
(Number of Dwelling Units in Inventory)
Fiscal Year 2024

Worldwide

	Number of Units- Worldwide						
	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>
Beginning of FY Adequate Inventory Total	12,386	11,697	11,905	11,199	10,888	10,539	9,508
FCI of 90% to 100% (Good Condition)	10,287	9,639	9,273	7,616	6,363	6,105	5,180
FCI of 80% to 89% (Fair Condition)	2,099	2,058	2,632	3,583	4,525	4,434	4,328
Beginning of FY Inadequate Inventory Total	2,887	3,477	3,392	3,901	3,925	4,140	5,228
FCI of 60% to 79% (Poor Condition)	2,542	3,221	3,114	3,683	3,697	3,912	4,768
FCI of 59% and below (Failing Condition)	345	256	278	218	228	228	460
Beginning of FY Total Inventory	15,273	15,174	15,297	15,100	14,813	14,679	14,736
Percent Adequate - Beginning of FY Inventory	81%	77%	78%	74%	74%	72%	65%
Inadequate Inventory Reduced Through:	590	(85)	509	24	215	1,088	456
Construction (FHCON)	(44)	0	(1)	(59)	0	(50)	0
Maintenance & Repair (FHO&M)	(100)	(70)	(136)	(71)	(52)	(138)	(71)
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	(92)	79	(78)	(96)	(68)	(31)	(90)
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	826	(94)	724	250	335	1,307	617
Adequate Inventory Changes:	(689)	208	(706)	(311)	(349)	(1,031)	(486)
Construction (FHCON)	44	0	1	61	18	50	70
Maintenance & Repair (FHO&M)	100	70	136	71	52	138	71
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	(76)	33	(119)	(193)	(140)	(80)	(106)
Funded by Host Nation	69	11	0	0	56	168	96
Additional Inadequate Units Identified	(826)	94	(724)	(250)	(335)	(1,307)	(617)
End of FY Adequate Inventory Total	11,697	11,905	11,199	10,888	10,539	9,508	9,022
FCI of 90% to 100% (Good Condition)	9,639	9,273	7,616	6,363	6,105	5,180	5,120
FCI of 80% to 89% (Fair Condition)	2,058	2,632	3,583	4,525	4,434	4,328	3,902
End of FY Inadequate Inventory Total	3,477	3,392	3,901	3,925	4,140	5,228	5,684
FCI of 60% to 79% (Poor Condition)	3,221	3,114	3,683	3,697	3,912	4,768	5,152
FCI of 59% and below (Failing Condition)	256	278	218	228	228	460	532
End of FY Total Inventory	15,174	15,297	15,100	14,813	14,679	14,736	14,706
Percent Adequate - End of FY Inventory	77%	78%	74%	74%	72%	65%	61%
DoD Performance Goal - 90% of world-wide family housing inventory at FCI of at least 80% (Good or Fair Condition)	90%	90%	90%	90%	90%	90%	90%
<p>NOTES:</p> <p>1 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.</p> <p>2 - Assessment data and investment, sustainment, and divestiture strategy for the worldwide AF government-owned inventory is based on the installation level Housing Community Profiles (HCPs) and the Family Housing Master Plan (FHMP). The FHMP includes updates to scores based on recent HCPs at five installations in Europe; and reviews and updates to condition data at other installations based on project execution and data reviews. An adjustment of scores is shown in the FY23 inventory changes.</p> <p>3 - The FY24 scores are reflective of five recent HCPs completed in 2021 and 2022 (3,332 housing units). Three more installations will have new HCPs in 2023 (11,271 units); which will be reflected in the next FHMP.</p> <p>4 - Units with <60 FCI scores include units at Okinawa planned for replacement and land return; and units impacted by the European Infrastructure Consolidation (EIC) changes. Projects for the EIC changes are identified in the FMHP in FY25-30 investment planning.</p> <p>5 - There is a large increase in projected future inadequate units in FY27-30 due to the large number of units built/renovated in 2010-2012 that are projected to have scores <80 around the 15-20 year mark.</p>							

DEPARTMENT OF AIR FORCE
FH-11 Inventory and Condition of Government-Owned, Family Housing Units
(Number of Dwelling Units in Inventory)
Fiscal Year 2024

UNITED STATES (CONUS plus Hawaii and Alaska)

	Number of Units- U.S.						
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning of FY Adequate Inventory Total	30	30	30	31	31	32	32
FCI of 90% to 100% (Good Condition)	30	30	30	31	31	32	32
FCI of 80% to 89% (Fair Condition)	0	0	0	0	0	0	0
Beginning of FY Inadequate Inventory Total	72	62	76	75	65	64	49
FCI of 60% to 79% (Poor Condition)	72	62	66	65	65	64	49
FCI of 59% and below (Failing Condition)	0	0	10	10	0	0	0
Beginning of FY Total Inventory	102	92	106	106	96	96	81
Percent Adequate - Beginning of FY Inventory	29%	33%	28%	29%	32%	33%	40%
Inadequate Inventory Reduced Through:	(10)	14	(1)	(10)	(1)	(15)	(4)
Construction (FHCON)	0	0	(1)	0	0	0	0
Maintenance & Repair (FHO&M)	0	0	0	0	(1)	0	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	(10)	14	0	(10)	0	(15)	(4)
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	0	0	0	0	0	0	0
Adequate Inventory Changes:	0	0	1	0	1	0	0
Construction (FHCON)	0	0	1	0	0	0	0
Maintenance & Repair (FHO&M)	0	0	0	0	1	0	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	0	0	0	0	0	0	0
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	0	0	0	0	0	0	0
End of FY Adequate Inventory Total	30	30	31	31	32	32	32
FCI of 90% to 100% (Good Condition)	30	30	31	31	32	32	32
FCI of 80% to 89% (Fair Condition)	0	0	0	0	0	0	0
End of FY Inadequate Inventory Total	62	76	75	65	64	49	45
FCI of 60% to 79% (Poor Condition)	62	66	65	65	64	49	45
FCI of 59% and below (Failing Condition)	0	10	10	0	0	0	0
End of FY Total Inventory	92	106	106	96	96	81	77
Percent Adequate - End of FY Inventory	33%	28%	29%	32%	33%	40%	42%

NOTES:

1 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.

2 - Wright Patterson - the FHMP identifies an FHCON projects for Key and Essential (K&E) at 29 historic units in FY20, which is reflected in the FY22+ condition ratings. Demolition was initially identified for 10 non-historic surplus units in FY22; however, this project has been placed on hold to address grade/bedroom mix needs during renovations. These 10 units are added back into the inventory in FY23. Divestiture for the surplus units is now shown in FY25 (10 non-historic units); FY27 (15 historic units) and FY29 (15 historic units).

3 - United States Air Force Academy (USAFA) - the inventory includes two General Officer Quarters (GOQs) in the government-owned inventory; one is identified for an FHCON Improvement project in FY24 the other as and FHO&M project in FY26. Execution to be finalized with appropriate approvals.

4 - Eglin - nine units were identified for divestiture in FY21. Four units are brought back into the MFH inventory in FY23 due to delays in execution; divestiture plan is being evaluated and identified in FY28.

DEPARTMENT OF AIR FORCE
FH-11 Inventory and Condition of Government-Owned, Family Housing Units
(Number of Dwelling Units in Inventory)
Fiscal Year 2024

FOREIGN (includes U.S. Territories)

	Number of Units- Foreign						
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning of FY Adequate Inventory Total	12,356	11,667	11,875	11,168	10,857	10,507	9,476
FCI of 90% to 100% (Good Condition)	10,257	9,609	9,243	7,585	6,332	6,073	5,148
FCI of 80% to 89% (Fair Condition)	2,099	2,058	2,632	3,583	4,525	4,434	4,328
Beginning of FY Inadequate Inventory Total	2,815	3,415	3,316	3,826	3,860	4,076	5,179
FCI of 60% to 79% (Poor Condition)	2,470	3,159	3,048	3,618	3,632	3,848	4,719
FCI of 59% and below (Failing Condition)	345	256	268	208	228	228	460
Beginning of FY Total Inventory	15,171	15,082	15,191	14,994	14,717	14,583	14,655
Percent Adequate - Beginning of FY Inventory	81%	77%	78%	74%	74%	72%	65%
Inadequate Inventory Reduced Through:	600	(99)	510	34	216	1,103	460
Construction (FHCON)	(44)	0	0	(59)	0	(50)	0
Maintenance & Repair (FHO&M)	(100)	(70)	(136)	(71)	(51)	(138)	(71)
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	(82)	65	(78)	(86)	(68)	(16)	(86)
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	826	(94)	724	250	335	1,307	617
Adequate Inventory Changes:	(689)	208	(707)	(311)	(350)	(1,031)	(486)
Construction (FHCON)	44	0	0	61	18	50	70
Maintenance & Repair (FHO&M)	100	70	136	71	51	138	71
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	(76)	33	(119)	(193)	(140)	(80)	(106)
Funded by Host Nation	69	11	0	0	56	168	96
Additional Inadequate Units Identified	(826)	94	(724)	(250)	(335)	(1,307)	(617)
End of FY Adequate Inventory Total	11,667	11,875	11,168	10,857	10,507	9,476	8,990
FCI of 90% to 100% (Good Condition)	9,609	9,243	7,585	6,332	6,073	5,148	5,088
FCI of 80% to 89% (Fair Condition)	2,058	2,632	3,583	4,525	4,434	4,328	3,902
End of FY Inadequate Inventory Total	3,415	3,316	3,826	3,860	4,076	5,179	5,639
FCI of 60% to 79% (Poor Condition)	3,159	3,048	3,618	3,632	3,848	4,719	5,107
FCI of 59% and below (Failing Condition)	256	268	208	228	228	460	532
End of FY Total Inventory	15,082	15,191	14,994	14,717	14,583	14,655	14,629
Percent Adequate - End of FY Inventory	77%	78%	74%	74%	72%	65%	61%

NOTES:

- 1 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.
- 2 - Assessment data and investment, sustainment, and divestiture strategy for the worldwide AF government-owned inventory is based on the installation level Housing Community Profiles (HCPs) and the Family Housing Master Plan (FHMP). The FHMP includes updates to scores based on recent HCPs at five installations in Europe; and reviews and updates to condition data at other installations based on project execution and data reviews. An adjustment of scores is shown in the FY23 inventory changes.
- 3 - The FY24 scores are reflective of five recent HCPs completed in 2021 and 2022 (3,332 housing units). Three more installations will have new HCPs in 2022-2023 (11,271 units); which will be reflected in the next FHMP.
- 4 - Units with <60 FCI scores include units at Okinawa planned for replacement and land return; and units impacted by the European Infrastructure Consolidation (EIC) changes. Projects for the EIC changes are identified in the FMHP in FY25-30 investment planning.
- 5 - There is a large increase in projected future inadequate units in FY27-30 due to the large number of units built/renovated in 2010-2012 that are projected to have scores <80 around the 15-20 year mark.

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DEPARTMENT OF AIR FORCE
FH-11 Inventory and Condition of Government-Owned, Family Housing Units
(Number of Dwelling Units in Inventory)
Fiscal Year 2024

Transitional

	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>
Beginning of FY Adequate Inventory Total	0	0	33	0	0	0	0
FCI of 90% to 100% (Good Condition)	0	0	29	0	0	0	0
FCI of 80% to 89% (Fair Condition)	0	0	4	0	0	0	0
Beginning of FY Inadequate Inventory Total	0						
FCI of 60% to 79% (Poor Condition)	0	0	0	0	0	0	0
FCI of 59% and below (Failing Condition)	0	0	0	0	0	0	0
Beginning of FY Total Inventory	0	0	33	0	0	0	0
Percent Adequate - Beginning of FY Inventory	0%	0%	100%	0%	0%	0%	0%
Inadequate Inventory Reduced Through:							
Construction (FHCON)	0	0	0	0	0	0	0
Maintenance & Repair (FHO&M)	0	0	0	0	0	0	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	0	0	0	0	0	0	0
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Identified	0	0	0	0	0	0	0
Adequate Inventory Changes:	0	33	(33)	0	0	0	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	0	33	(33)	0	0	0	0
Additional Inadequate Identified	0	0	0	0	0	0	0
End of FY Adequate Inventory Total							
FCI of 90% to 100% (Good Condition)	0	29	0	0	0	0	0
FCI of 80% to 89% (Fair Condition)	0	4	0	0	0	0	0
End of FY Inadequate Inventory Total	0						
FCI of 60% to 79% (Poor Condition)	0	0	0	0	0	0	0
FCI of 59% and below (Failing Condition)	0	0	0	0	0	0	0
End of FY Total Inventory	0	33	0	0	0	0	0
Percent Adequate - End of FY Inventory							
	0%	100%	0%	0%	0%	0%	0%
NOTES:							
1 - The definition of transitional family housing (FH) are units that are at enduring and non-enduring sites 1) as a result of organizational deactivations, consolidation (e.g. Europe Infrastructure Consolidation (EIC), etc.) and relocation efforts; 2) where FH units have been identified by the Services as surplus and not currently occupied; and 3) in both cases, the Service has planned, documented, funded and/or announced the divestiture, demolition, or transfer of these units in the Future Years Defense Program (FYDP).							
2. The European Infrastructure Consolidation (EIC) decisions have impacted manpower requirements for bases in England. EIC updates added manpower to RAF Alconbury, RAF Lakenheath, and RAF Mildenhall, therefore the units were removed from transitional inventory in FY21, since the units were needed to meet the updated manpower. The 2022 Housing Requirements and Market Analysis (HRMA) for RAF Fairford identified a decrease due to the EIC decisions. There is now a 61 unit surplus; 33 units are identified to be divested within the FYDP. The remaining 28 surplus units are planned for use as swing space during renovations of the required units. The surplus swing space units are identified to be removed after the FYDP, therefore these units are not included in the transitional numbers per definition number 3 (Note 1).							
3 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.							

DEPARTMENT OF AIR FORCE
FH-11 Inventory and Condition of Government-Owned, Family Housing Units
(Number of Dwelling Units in Inventory)
Fiscal Year 2024

Transitional Unit Details by Location

<u>State/Country</u>	<u>Installation</u>	<u>N/E²</u>	<u>Change in Transitional Units</u>	<u>Condition (FCD)³</u>	<u>Explanation</u>
FY 2022					
FY 2022 Transitional Unit Changes					
			0		
FY 2023					
United Kingdom	RAF Fairford	N	33	1/2	Manpower and housing requirements have been reduced as identified the 2022 Draft Housing Requirements and Market Analysis (HRMA) due to the European Infrastructure Consolidation (EIC) decisions. See Note 2 for more details.
FY 2023 Transitional Unit Changes					
			33		
FY 2024					
United Kingdom	RAF Fairford	N	(33)	1/2	Manpower and housing requirements have been reduced as identified in the 2022 Draft HRMA due to the EIC decisions. See Note 2 for more details.
FY 2024 Transitional Unit Changes					
			(33)		
FY 2025					
FY 2025 Transitional Unit Changes					
			0		
FY 2026					
FY 2026 Transitional Unit Changes					
			0		
FY 2027					
FY 2027 Transitional Unit Changes					
			0		
FY 2028					

For Official Use Only

March 2023

DEPARTMENT OF AIR FORCE
FH-11 Inventory and Condition of Government-Owned, Family Housing Units
(Number of Dwelling Units in Inventory)
Fiscal Year 2024

<u>State/Country</u>	<u>Installation</u>	<u>N/E²</u>	<u>Change in Transitional Units</u>	<u>Condition (FCI)³</u>	<u>Explanation</u>
FY 2028 Transitional Unit Changes			0		
Total			0		

NOTES:

1 - The definition of transitional family housing (FH) are units that are at enduring and non-enduring sites 1) as a result of organizational deactivations, consolidation (e.g. Europe Infrastructure Consolidation (EIC), etc.) and relocation efforts; 2) where FH units have been identified by the Services as surplus and not currently occupied; and 3) in both cases, the Service has planned, documented, funded and/or announced the divestiture, demolition, or transfer of these units in the Future Years Defense Program (FYDP).

2. The European Infrastructure Consolidation (EIC) decisions have impacted manpower requirements for bases in England. EIC updates added manpower to RAF Alconbury, RAF Lakenheath, and RAF Mildenhall, therefore the units were removed from transitional inventory in FY21, since the units were needed to meet the updated manpower. The 2022 Housing Requirements and Market Analysis (HRMA) for RAF Fairford identified a decrease due to the EIC decisions. There is now a 61 unit surplus; 33 units are identified to be divested within the FYDP. The remaining 28 surplus units are planned for use as swing space during renovations of the required units. The surplus swing space units are identified to be removed after the FYDP, therefore these units are not included in the transitional numbers per definition number 3 (Note 1).

3 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition. Facility Condition Index bands:

- 1 - FCI of 90% to 100% (Good Condition)
- 2 - FCI of 80% to 89% (Fair Condition)
- 3 - FCI of 60% to 79% (Poor Condition)
- 4 - FCI of 59% and below (Failing Condition)

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

FH-8 Air Force Inadequate Family Housing Units Eliminated in FY 2022

<u>MAJCOM</u>	<u>Project Type</u>	<u>Base</u>	<u>Total Inventory Minus Leased & Privatized</u>	<u>Total Inadequate Inventory</u>	<u>Total Inadequate Addressed</u>
Units at Beginning of FY 2022			15,273	2,887	
Additional Inadequate Units Identified			0	826	0
USAFE	Condition Adjustment	RAF Alconbury	0	2	0
PACAF	Condition Adjustment	Okinawa	0	630	0
PACAF	Condition Adjustment	Yokota	0	186	0
PACAF	Condition Adjustment	Misawa	0	8	0
FY 2022 Family Housing Construction, Improvement, and O&M Projects to Eliminate Inadequate Units			0	(144)	212
PACAF	FHO&M project	Okinawa	0	(68)	136
PACAF	FHO&M project	Misawa	0	(32)	32
PACAF	FHCON projects	Yokota	0	(44)	44
Privatization Projects Executed			0	0	0
Units Demolished/Divested FY 2022			(92)	(92)	92
USAFE	Divestiture	RAF Croughton	(8)	(8)	8
USAFE	Demolition	RAF Alconbury	(52)	(52)	52
USAFE	Divestiture (See note 3)	RAF Fairford	(22)	(22)	22
AFMC	Demolition	Wright Patterson	(10)	(10)	10
Units Added to Family Housing			0	0	0
Deficit			(76)	0	0
USAFE	FY20 project cancelled (See note 4)	Spangdahlem AB	(76)	0	0
Host Nation Construction projects			69	0	0
PACAF	Special Actions Committee of Okinawa (SACO) (See note 5)	Okinawa	56	0	0
PACAF	Japanese Facilities Improvement Program (JFIP) (See note 5)	Okinawa	13	0	0
Units at End of FY 2022			15,174	3,477	304
NOTES: 1 - Family Housing Military Construction (FHCON) and Family Housing Operations and Maintenance (FHO&M) investments are based on the Housing Community Profile (HCP) and Family Housing Master Plan (FHMP). Inventory reflects the FY22 FHCON and FHO&M projects. 2 - Divestiture is based on Family Housing Master Plan updates with input from the installations and AFIMSC Detachments. 3 - Royal Air Force (RAF) Fairford - inventory includes 22 previously divested housing units added into the inventory in FY21 based on the 2018-2019 European Infrastructure Consolidation (EIC) basing decisions. However, the inventory was not changed in Real Property, and the most recent EIC change in 2020 identified a significant decrease in manpower at Fairford. Therefore these units were identified to be removed from the MFH inventory in FY22. 4 - Spangdahlem - the FY20 deficit construction project was cancelled. Therefore, the units which were added in the FY20 budget tables are being removed from the MFH inventory in FY22. 5 - Okinawa - the Host Nation projects funded by the Government of Japan (GOJ) include replacement construction at the United States Marines Corps (USMC) built through the Special Actions Committee of Okinawa (SACO) program, and replacement construction at Kadena Air Base (AB) through the Japanese Facilities Improvement Program (JFIP). Project updates have been provided by the installation and AFIMSC Detachment 2.					

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

FH-8 Air Force Inadequate Family Housing Units Eliminated in FY 2023

<u>MAJCOM</u>	<u>Project Type</u>	<u>Base</u>	<u>Total Inventory Minus Leased & Privatized</u>	<u>Total Inadequate Inventory</u>	<u>Total Inadequate Addressed</u>
Units at Beginning of FY 2023			15,174	3,477	
Additional Inadequate Units Identified			0	(94)	0
PACAF	Condition Adjustment	Misawa	0	76	0
USAFE	Condition Adjustment	RAF Croughton	0	(22)	0
PACAF	Condition Adjustment	Yokota	0	40	0
USAFE	Condition Adjustment	KMC	0	(1)	0
USAFE	Condition Adjustment	RAF Lakenheath	0	(84)	0
PACAF	Condition Adjustment	Okinawa	0	(107)	0
PACAF	Condition Adjustment	Osan	0	4	0
FY 2023 Family Housing Construction, Improvement, and O&M Projects to Eliminate Inadequate Units			0	(70)	70
PACAF	FHO&M	Yokota	0	(70)	70
Privatization Projects Executed			0	0	0
Units Demolished/Divested FY 2023			112	79	(79)
PACAF	Divestiture Cancelled (See note 6)	Okinawa	180	180	(180)
PACAF	Acquisition (Note 6)	Okinawa	33	0	0
AFMC	Divestiture Cancelled (Note 5)	Wright Patterson	10	10	(10)
PACAF	Demolition (Note 6)	Okinawa	(115)	(115)	115
AFMC	Divestiture Cancelled (Note 4)	Eglin	4	4	(4)
Units Added to Family Housing			0	0	0
Deficit Construction			0	0	0
Host Nation Construction projects			11	0	0
PACAF	Japanese Facilities Improvement Program (JFIP) (Note 7)	Okinawa	11	0	0
Units at End of FY 2023			15,297	3,392	(9)
NOTES					
1 - Condition adjustments reflect the 2021 and 2022 Housing Community Profile (HCP) re-assessments of Royal Air Force (RAF) Croughton; RAF Feltwell; RAF Lakenheath; RAF Mildenhall; Kaiserslautern Military Community (KMC); and Spangdahlem Air Base (AB). Condition adjustments also reflect updates completed through the FHMP to provide updates to condition data at other installations based on project execution and data reviews.					
2 - Family Housing Military Construction (FHCON) and Family Housing Operations and Maintenance (FHO&M) investments are based on the HCP and Family Housing Master Plan (FHMP). Inventory reflects the FY23 FHCON and FHO&M projects.					
3 - Divestiture is based on Family Housing Master Plan updates with input from the installations and AFIMSC Detachments.					
4 - Eglin - nine units were identified for divestiture in FY21. Four units are brought back into the MFH inventory in FY23 due to delays in execution; divestiture plan is being evaluated and identified in FY28.					
5 - Wright Patterson - demolition was initially identified for 10 non-historic units in FY22; however, the demolition project has been placed on hold to address grade/bedroom mix needs during renovations. These 10 units are added back into the inventory in FY23. Divestiture for the surplus units is now shown in FY25 (10 units); FY27 (15 units) and FY29 (15 units).					
6 - Okinawa inventory changes include:					
- Divestiture/demolition of units 180 which have been placed on hold; these units were originally planned for divestiture associated with the Japanese Facilities Improvement Program (JFIP) future phases. Due to delays in future phases, these units have been added back into the inventory in FY23 until a determination is made through the future HCP (planned in FY23).					
- 33 units, formerly used by the Department of State (DOS), are added back into the MFH inventory in FY23 to correct the record.					
- Demolition of 4 surplus units at Kadena AB (based on condition); and demolition of 111 planned and funded by the Government of Japan (GOJ) for future replacement construction at the United States Marines Corps (USMC) area through the Special Actions Committee of Okinawa (SACO) program.					
7. The Host Nation Construction project is funded by the GOJ includes replacement construction at Kadena AB through JFIP. Project update has been provided by the installation and AFIMSC Detachment 2.					

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

FH-8 Air Force Inadequate Family Housing Units Eliminated in FY 2024

<u>MAJCOM</u>	<u>Project Type</u>	<u>Base</u>	<u>Total Inventory Minus Leased & Privatized</u>	<u>Total Inadequate Inventory</u>	<u>Total Inadequate Addressed</u>
Units at Beginning of FY 2024			15,297	3,392	
Additional Inadequate Units Identified			0	724	0
USAFE	Condition Adjustment	RAF Lakenheath	0	4	0
PACAF	Condition Adjustment	Okinawa	0	574	0
USAFE	Condition Adjustment	RAF Croughton	0	2	0
PACAF	Condition Adjustment	Osan	0	112	0
USAFE	Condition Adjustment	RAF Alconbury	0	30	0
PACAF	Condition Adjustment	KMC	0	1	0
PACAF	Condition Adjustment	Yokota	0	1	0
FY 2024 Family Housing Construction, Improvement, and O&M Projects to Eliminate Inadequate Units			0	(137)	137
PACAF	FHO&M	Okinawa	0	(136)	136
PACAF	FHCON	US Air Force Academy	0	(1)	1
Privatization Projects Executed			0	0	0
Units Demolished/Divested FY 2024			(197)	(78)	78
USAFE	Demolition	Spangdahlem	(18)	0	0
PACAF	Demolition	Yokota	(78)	(78)	78
USAFE	Demolition	RAF Fairford	(33)	0	0
PACAF	Divestiture	Misawa	(68)	0	0
Units Added to Family Housing			0	0	0
Deficit Construction			0	0	0
Host Nation Construction projects			0	0	0
Units at End of FY 2024			15,100	3,901	215
NOTES: 1 - Family Housing Military Construction (FHCON) and Family Housing Operations and Maintenance (FHO&M) investments are based on the Housing Community Profile (HCP) and Family Housing Master Plan (FHMP). Inventory reflects the FY24 FHCON and FHO&M projects. 2 - Divestiture is based on Family Housing Master Plan updates with input from the installations and AFIMSC Detachments.					

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

AUTHORIZATION LANGUAGE

SEC. 2302. FAMILY HOUSING

(a) **IMPROVEMENTS TO MILITARY FAMILY HOUSING UNITS.** – Subject to section 2825 of Title 10, United States Code, and using amounts appropriated pursuant to the authorization of appropriations in Section 2303(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Air Force may improve existing military family housing units in an amount not to exceed [\$233,858,000] \$229,282,000.

(b) **PLANNING AND DESIGN.** – Using amounts appropriated pursuant to the authorization of appropriations in Section 2303(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Air Force may carry out architectural and engineering services and construction design activities with respect to the construction or improvement of military family housing units in an amount not to exceed [\$17,730,000] \$7,815,000.

SEC. 2303. AUTHORIZATION OF APPROPRIATIONS, AIR FORCE

(a) **AUTHORIZATION OF APPROPRIATIONS.** – Funds are hereby authorized to be appropriated for fiscal years beginning after September 30, 2023, for military construction, land acquisition, and military family housing functions of the Department of the Air Force, as specified in the funding table in section 4601.

(b) **LIMITATION ON TOTAL COST OF CONSTRUCTION PROJECTS.** – Notwithstanding the cost variations authorized by section 2853 of title 10, United States Code, and any other cost variation authorized by law, the total cost of all projects carried out under section 2301 of this Act may not exceed the total amount authorized to be appropriated under subsection (a), as specified in the funding table in section 4601.

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

APPROPRIATION LANGUAGE

FAMILY HOUSING CONSTRUCTION, AIR FORCE

For expenses of family housing for the Air Force for construction, including acquisition, replacement, addition, expansion, extension, and alteration, as authorized by law, [\$251,588,000] \$237,097,000 to remain available until September 30, 2028.

FAMILY HOUSING OPERATION AND MAINTENANCE, AIR FORCE

For expenses of family housing for the Air Force for operation and maintenance, including debt payment, leasing, minor construction, principal and interest charges, and insurance premiums, as authorized by law [\$365,222,000] \$314,386,000.

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

CONSTRUCTION IMPROVEMENTS

Budget Request (\$ in Thousands)

FY 2024 Budget Request	\$229,282
FY 2023 Budget Request	\$230,058
FY 2023 Enactment*	\$3,800
FY 2023 Appropriated	\$233,858

Purpose and Scope

The Air Force is expected to have approximately 15,100 owned units at the end of FY 2024. The average age of housing units in the Air Force's inventory is close to 30 years.

The Air Force developed the "whole house" revitalization concept for construction improvement projects. Whole house is the combination of required maintenance and repair together with improvements to bring the unit to contemporary standards. In addition, we are looking beyond the house to the entire housing area in our comprehensive plan. Our "whole neighborhood" concept includes the development of supporting housing infrastructure requirements, neighborhood vehicular and pedestrian circulation concepts to consider siting, density, landscaping, parking, playgrounds, recreation areas and utilities, in addition to the housing unit itself. The Air Force has gathered data on the construction improvement projects to detail past projects on these units and any future work being programmed within a three year period. This information is provided as part of this submittal.

Budget Request Summary

* The FY2023 Appropriated amount includes a \$3,800 increase to Construction Improvements for unfunded requirements.

Authorization is requested for:

- (1) Appropriation of one Family Housing Improvement project at the United States Air Force Academy, Carlton House GOQ Complex, home of the USAFA Superintendent (\$9,282,000) in FY 2024.
- (2) Appropriation of three MHPI Restructures (\$220,000,000) in FY 2024.

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION USAF ACADEMY USAF ACADEMY SITE 1 COLORADO		4. PROJECT TITLE: IMPROVE CARLTON COMPLEX		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER XQPZ218002	8. PROJECT COST (\$000) 9,282	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				7,297
FAMILY HOUSING APPROPRIATED FY50-69 (711-143)	UN	1	4,741,349	(4,741)
CADET SOCIAL CENTER (740-681)	UN	1	1,343,475	(1,344)
MISCELLANEOUS RECREATION BUILDING (740-668)	UN	2	606,000	(1,212)
SUPPORTING FACILITIES				813
SITE IMPROVEMENTS	LS			(102)
SITE PREPARATION	LS			(124)
UTILITIES	LS			(406)
PAVEMENTS	LS			(144)
ENVIRONMENTAL MITIGATION	LS			(37)
SUBTOTAL				8,110
CONTINGENCY (5.0%)				406
TOTAL CONTRACT COST				8,516
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				554
DESIGN DURING CONSTRUCTION				212
TOTAL REQUEST				9,282
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(28)
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Renovate the Carlton House (General Officer O-9, 3 Bedroom, two story single unit), Falcon House (2-bedroom, single story unit), Caterer's Kitchen, and Greenhouse, with selective incorporation of the recommendations in the 2019 Individual Facility Profile Report, and the 2020 Housing Community Profile. All four buildings will undergo general renovations and building-specific alterations as noted below:				
<p>Carlton House [Building 6776 - CATCODE: 711-143]: Exterior improvements will provide weather-tight and energy efficient systems to match the original design including replacement, repair, or refurbishment of the following components as needed with energy efficient materials that match the original design: the roof and roof drainage systems; stucco; doors, windows, and shutters; lighting; and garage doors. Exterior work also includes painting of the building, asphalt overlay of the driveway, general landscaping, site lighting, fencing, and replacement of sanitary sewer and water pipes. Interior work includes replacing all mechanical, electrical, and plumbing systems which are mostly original, replacing communications infrastructure including data lines, rehabilitation and replacement of doors, replacing flooring (hardwood and carpet), and replacing trim. Plaster and lath walls and ceilings will be repaired or replaced as needed and repainted throughout. The bathrooms and kitchen will undergo major improvements to modernize and facilitate modern living. Fixtures, appliances, and finishes will be replaced with new components including new residential kitchen equipment. Life, health, and</p>				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION USAF ACADEMY USAF ACADEMY SITE 1 COLORADO		4. PROJECT TITLE: IMPROVE CARLTON COMPLEX		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER XQPZ218002	8. PROJECT COST (\$000) 9,282	
<p>safety improvements will be included as appropriate for a residential home. Various spaces will be reconfigured to facilitate more efficient space use.</p> <p>Falcon House [Building 6782 - CATCODE: 740-681]: Exterior improvements will provide weather-tight and energy efficient systems to match the original design including replacement, repair, or refurbishment of the following components as needed with energy efficient materials that match the original design: the single ply membrane roof system; the clay tile roof system where clay tiles will be removed for re-installation after the waterproof membrane and wood support members are replaced; gutters and downspouts; stucco; and doors, shutters, and windows. Exterior work also includes painting of the building. Interior work includes replacement of all mechanical, electrical, and plumbing systems which are mostly original. Communications infrastructure will be replaced including data lines. The kitchenette and bathroom will be reconfigured to modernize and provide more efficient layouts. All fixtures and finishes will be modernized to create a more spacious, inviting atmosphere.</p> <p>Caterer's Kitchen / Greenhouse [Building 6780 / 6778 - CATCODE: 740-668]: Exterior improvements will provide weather-tight and energy efficient systems to match the original design including replacement, repair, or refurbishment of the following components as needed with energy efficient materials that match the original design: roof, gutters, and downspouts; stucco; and doors, shutters, and windows. Exterior work also includes painting of the building. Interior work includes replacement of all mechanical, electrical, and plumbing systems which are mostly original. Communications infrastructure will be replaced including data lines. The interior space will be reconfigured to modernize the Caterer's Kitchen and improve efficiency. Alterations also include relocating the bathroom and pantry spaces to maximize layout. A new gas range and fire protection hood system will be installed as well as walk-in freezer and cooling units, and general food service equipment. The greenhouse stucco will be patched and repaired as needed and receive a new coat of paint. The glazing will be repaired to make weather tight.</p> <p>The overall facility improvement shall be permanent and designed to meet the current Family Housing Standard and shall be in accordance with Unified Facilities Criteria 4-711-01 Family Housing, and the International Residential Code. In addition, environmental (asbestos/lead) sampling, testing, remediation, and all other related work are programmed into the project to provide complete and usable facilities.</p> <p>Air Conditioning: Carlton House = 19 Tons; Falcon House = 4 Tons; Caterer's Kitchen = 3 Tons</p>				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION USAF ACADEMY USAF ACADEMY SITE 1 COLORADO		4. PROJECT TITLE: IMPROVE CARLTON COMPLEX		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER XQPZ218002	8. PROJECT COST (\$000) 9,282	
11. REQUIREMENT: 1 UN ADEQUATE: 0 UN SUBSTANDARD: 0 UN				
PROJECT: IMPROVE CARLTON COMPLEX				
<p>REQUIREMENT: The mission of the United States Air Force Academy is to educate, train, and inspire men and women to become leaders of character, motivated to lead the Departments of the Air Force and Space Force in service to our nation. The Carlton House is a single-family housing unit (General Officers Quarters) and is the primary residence for the United States Air Force Academy's Superintendent/Commander. The house and supporting facilities in the complex also provide all necessary amenities for an O-9 General Officer Special Command Position and are used for multiple Academy and Air Force events throughout the year which include the entertainment of senior Air Force leadership, national and international dignitaries, and the cadets. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The Carlton House Complex, a National Register of Historic Places home built in 1931, served as a residence, country club and schoolhouse before the Air Force acquired the property in the late 1950s. Since then, it has served as the Air Force Academy Superintendent's main living quarters and is used regularly to meet his/her Special Command Position responsibilities. The home was privatized in 2007, but by 2016 was returned to Air Force Academy ownership. Over the course of multiple years, both the privatized housing contractor and the Air Force Academy have obtained approval to invest well over the \$35K annual maintenance and repair threshold as established by Congressional statute and defined in AFI 32-6000, Housing Management to maintain this house in habitable condition. However, these efforts were reactionary and marginally met needs. The Carlton House has never had a whole-house renovation. The last partial renovation occurred in 1999 and addressed improvements to bathrooms, the laundry room, floor finishes, and the kitchen, plus addition of a radon detection system that is now 11 years beyond its service life. Heating, ventilation, and air conditioning, plumbing and electrical systems, are mostly original and beyond their expected service life by up to 60 years. The lack of proper heating, ventilation and air conditioning systems and controls in the Carlton House makes it impossible to control the interior environment of the main living and entertaining spaces. Occupants and guests are always either too cold or too hot impacting distinguished visitors' comfort during events. Significant air leakage through old windows and doors exacerbates the problem, creating a health and livability hazard for the Superintendent, his/her family, and guests. Both the 2019 Individual Facility Profile, and the 2020 Housing Community Profile, required life, health, and safety improvements including: replacing/installing carbon monoxide detectors and smoke detectors, and replacing the fire alarm system, residential security system, radon mitigation system, handrails, and wooden steps. Numerous attempts to remedy the situation under the \$35K threshold have proven to be marginally effective for only short periods of time.</p>				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE MARCH 2023
3. INSTALLATION AND LOCATION USAF ACADEMY USAF ACADEMY SITE 1 COLORADO		4. PROJECT TITLE: IMPROVE CARLTON COMPLEX		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER XQPZ218002	8. PROJECT COST (\$000) 9,282	
<p>IMPACT IF NOT PROVIDED: If this project is not provided, the Air Force Academy will have inadequate General Officer's Quarters for the Superintendent and his/her associated Special Command Position responsibilities. The installation will continue to maintain the Carlton home in its current state which has over \$6M of long-standing maintenance and repair requirements as detailed in the 2019 Individual Facility Profile Report, and the 2020 Housing Community Profile, that have not been able to be adequately addressed in a timely fashion due to the annual \$35K threshold. These issues have contributed to the house deteriorating to the point of health, safety, and livability concerns. The house will continue to degrade over time and become more difficult and expensive to maintain. Without a whole house renovation, multiple exceed threshold projects in multiple years will be necessary to incrementally restore the house to Air Force livability and Special Command Position standards. These multiple projects will require multiple disruptions to occupants' lives and Special Command Position entertaining responsibilities over an extended period.</p> <p>ADDITIONAL: Since the Carlton Complex is listed on the National Historic Register of Historic Places as a Historic District, the National Historic Preservation Act Section 112 and the Section 106 regulations, at §800.2(a)(1) apply, which require agencies responsible for protecting historic properties to ensure that all actions taken by their employees or contractors meet professional standards as determined by the Secretary of the Interior. The Secretary of the Interior standards for historic preservation are published in the Code of Federal Regulations, 36 CFR Part 61. This project also meets the scope/criteria specified in the Air Force Manual 32-1084, Facility Requirements and AFI 32-6000 Housing Management. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, and the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from the United States Corps of Engineers. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined renovation of the existing facility as the best option to meet this requirement. This project does not fall within or partly within a 100-year flood plain. This project was not included in the Fiscal Year 2023 future years' defense plan. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Project total request includes 14.38% escalation required by US Army Corps of Engineers, Omaha District.</p> <p>GRADE: 0-9 EXISTING BEDROOMS: 3 AUTHORIZED BEDROOMS: 4</p> <p>10th Air Base Wing Base Civil Engineer: (719) 333-2660</p>				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE MARCH 2023
3. INSTALLATION AND LOCATION USAF ACADEMY USAF ACADEMY SITE 1 COLORADO		4. PROJECT TITLE: IMPROVE CARLTON COMPLEX	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER XQPZ218002	8. PROJECT COST (\$000) 9,282
12. SUPPLEMENTAL DATA			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	02-FEB-22		
(c) Parametric Cost Estimates used to develop costs	YES		
(d) Percent Complete as of 01 JAN 2023	65%		
(e) Date 35% Designed	17-MAY-22		
(f) Date Design Complete	4-AUG-23		
(g) Energy Study/Life-Cycle analysis was performed	YES		
(2) Basis:			
(a) Standard or Definitive Design -	NO		
(b) Where Design Was Most Recently Used -	N/A		
(3) Total cost = (a) + (b) and (d) + (e) (\$000)			
(a) Production of Plans and Specifications	546		
(b) All Other Design Costs	434		
(c) Total	980		
(d) Contract	735		
(e) In-house	245		
(4) Construction Contract Award	24-MAR		
(5) Construction Start	24-MAY		
(6) Construction Completion	25-JUL		
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	3400	2024	10
COMMUNICATION EQUIPMENT	3400	2024	18

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT Air Force	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION Columbus/Goodfellow/Laughlin/Maxwell/ Randolph/Vance Air Force Bases (AFBs) Multiple Locations in AL/MS/OK/TX			4. PROJECT TITLE AETC Group 2 MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER XLWUPH2402	8. PROJECT COST (\$000) 65,000	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				65,000
Privatized Housing Inventory	Un	2,205	29.478	65,000
SUPPORTING FACILITIES				0
SUBTOTAL				65,000
TOTAL CONTRACT COST				65,000
TOTAL REQUEST				65,000
10. Description of Proposed Work: Complete a financial restructure of the AETC Group 2 military housing privatization initiative (MHPI) project by utilizing FY24 Department of the Air Force (DAF) Budget Authority to provide a Government Equity Contribution to the AETC Group 2 MHPI project to ensure adequate funding available for sustainment needs (e.g., roofing, Heating Ventilation and Cooling (HVAC) units, repairs, etc.) and reinvestment needs (e.g., whole-house renovations). AETC Group 2 bases include Columbus / Goodfellow / Laughlin / Maxwell / Randolph / Vance AFBs.				
11. Requirement: 2,205 UN				
PROJECT: AETC Group 2 MHPI Project Restructure				
REQUIREMENT: From the time of project closing in 2007 when the housing was originally privatized, this project is required to provide 2,205 modern and				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT Air Force	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION Columbus/Goodfellow/Laughlin/Maxwell/ Randolph/Vance Air Force Bases (AFBs) Multiple Locations in AL/MS/OK/TX			4. PROJECT TITLE AETC Group 2 MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER XLWUPH2402	8. PROJECT COST (\$000) 65,000	
<p>efficient housing units for military members and their dependents stationed at Columbus/Goodfellow/Laughlin/Maxwell/ Randolph/Vance AFBs through the end of the 50-year lease term.</p> <p>CURRENT SITUATION: The DAF currently projects sustainment funding shortfalls of \$58M over the next 10 years, including funds for HVAC, appliance replacements, exterior maintenance, roofing, and infrastructure. Additionally, there is forecasted to be a \$340M shortfall of the projected funds required for mid-term reinvestment at the project. Funding shortfalls are driven factors that are beyond the privatized housing owner's control, including weak Basic Allowance for Housing growth, higher operating expenses, delayed preferred return payoff, unforeseen costs (e.g., Randolph dehumidification project), and higher sustainment and reinvestment needs than original expectations.</p> <p>IMPACT IF NOT PROVIDED: Project housing at the AETC Group 2 MHPI project will continue to further deteriorate impacting the quality of life for 2,205 Airmen living on Columbus/Goodfellow/Laughlin/Maxwell/ Randolph/Vance AFBs. Additionally, the ongoing degradation of the units could result in increased life/health/safety issues at project units.</p> <p>ADDITIONAL: None</p>				
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Restructure Schedule:</p> <ul style="list-style-type: none"> (1) Initial Restructure discussions w/ Project Owner: Jan-Nov 22 (completed) (2) Initial Project Owner restructure proposal: Feb 23 (3) AFCEC review proposal/draft counter: Mar 23 (4) Ongoing negotiations w/ Project Owner: Apr-May 23 (5) Project Owner submit revised proposal: Jun 23 (6) DAF evaluate proposal/draft Scoring Package: Jul 23 (7) OSD/OMB Vector: Aug-Oct 23 (8) Ongoing Negotiations with Project Owner w/OSD Feedback: Nov 23-Jan 24 (9) Final Proposal from Project Owner: Jan 24 (10) Draft Restructure Approval Package & Submit to OSD/OMB: Feb 24 (11) OSD/OMB Review and Approval: Mar-May 24 (12) Draft Restructure Amendments: Jun 24 (13) Congressional Notification/Funds Transfer: Jun-Jul 24 (14) Restructure Executed: Aug 24 				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT Air Force	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION Joint Base Pearl Harbor-Hickam Honolulu/HI			4. PROJECT TITLE Hickam MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER YVEWPH2401	8. PROJECT COST (\$000) 75,000	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				75,000
Privatized Housing Inventory	Un	2,474	30.315	75,000
SUPPORTING FACILITIES				0
SUBTOTAL				75,000
TOTAL CONTRACT COST				75,000
TOTAL REQUEST				75,000
10. Description of Proposed Work: Complete a financial restructure of the Hickam military housing privatization initiative (MHPI) project by utilizing FY24 Department of the Air Force (DAF) Budget Authority to modify the terms of the Hickam MHPI project's Government Direct Loan (GDL) and/or to provide a Government Equity Contribution to the Hickam MHPI project to ensure adequate funding available for sustainment needs (e.g., roofing, Heating Ventilation and Cooling (HVAC) units, repairs, etc.) and reinvestment needs (e.g., whole-house renovations).				
11. Requirement: 2,474 UN				
PROJECT: Hickam MHPI Project Restructure				
REQUIREMENT: The housing at Joint Base Pearl Harbor-Hickam was originally privatized through a two-phase process with phase 1 closing in 2005 and				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT Air Force	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION Joint Base Pearl Harbor-Hickam Honolulu/HI			4. PROJECT TITLE Hickam MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER YVEWPH2401	8. PROJECT COST (\$000) 75,000	
<p>phase 2 closing in 2007. This project is required to provide 2,474 modern and efficient housing units for military members and their dependents stationed at Joint Base Pearl Harbor-Hickam through the end of the 50-year lease term.</p> <p>CURRENT SITUATION: The DAF currently projects sustainment funding shortfalls of \$50M over the next 10 years, including funds for HVAC, appliance replacements, exterior maintenance, roofing, and infrastructure. Additionally, there is forecasted to be a \$600M shortfall of the projected funds required for mid-term reinvestment at the project. Funding shortfalls are driven by factors that are beyond the privatized housing owner's control, including weak Basic Allowance for Housing growth, higher operating expenses, increased construction costs caused by environmental and soil issues, and higher sustainment and reinvestment costs due to current market conditions.</p> <p>IMPACT IF NOT PROVIDED: Project housing at the Hickam MHPI project will continue to further deteriorate impacting the quality of life for 2,474 Airmen living on Joint Base Pearl Harbor-Hickam. Additionally, the ongoing degradation of the units could result in increased life/health/safety issues at project units.</p> <p>ADDITIONAL: None</p>				
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Restructure Schedule:</p> <ul style="list-style-type: none"> (1) Initial Restructure discussions w/ Project Owner: Mar-Sep 22 (completed) (2) Initial Project Owner restructure proposal: Oct 22 (completed) (3) AFCEC review proposal/draft counter: Nov 22 (completed) (4) Ongoing negotiations w/ Project Owner: Dec 22 (completed) (5) Project Owner submit revised proposal: Jan 23 (completed) (6) DAF evaluate proposal/draft Scoring Package: Mar 23 (7) OSD/OMB Vector: Apr-May 23 (8) Ongoing Negotiations with Project Owner w/OSD Feedback: Jun-Jul 23 (9) Final Proposal from Project Owner: Aug 23 (10) Draft Restructure Approval Package & Submit to OSD/OMB: Sep 23 (11) OSD/OMB Review and Approval: Oct 23-Jan 24 (12) Draft Restructure Amendments: Feb 24 (13) Congressional Notification/Funds Transfer: Mar-Apr 24 (14) Restructure Executed: May 24 				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT Air Force	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION, SITE AND LOCATION Arnold/Charleston/Keesler/Shaw Air Force Base (AFBs) Multiple Locations in MS/SC/TN			4. PROJECT TITLE Southern Group MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER MAHGPH2401	8. PROJECT COST (\$000) 80,000	
9. COST ESTIMATES				
ITEM	U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITIES				80,000
Privatized Housing Inventory	Un	2,185	36.613	80,000
SUPPORTING FACILITIES				0
SUBTOTAL				80,000
TOTAL CONTRACT COST				80,000
TOTAL REQUEST				80,000
10. Description of Proposed Work: Complete a financial restructure of the Southern Group military housing privatization initiative (MHPI) project by utilizing FY24 Department of the Air Force (DAF) Budget Authority to provide a Government Equity Contribution to the Southern Group MHPI project to ensure adequate funding available for sustainment needs (e.g., roofing, Heating Ventilation and Cooling (HVAC) units, repairs, etc.) and reinvestment needs (e.g., whole-house renovations). Southern Group bases include Arnold / Charleston / Keesler / Shaw AFBs.				
11. Requirement: 2,185 UN PROJECT: Southern Group MHPI Project Restructure REQUIREMENT: From the time of project closing in 2011 when the housing was originally privatized, this project is required to provide 2,185 modern and				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST
Construction Improvements**

1. COMPONENT Air Force	FY 2024 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION Arnold/Charleston/Keesler/Shaw Air Force Base (AFBs) Multiple Locations in MS/SC/TN		4. PROJECT TITLE Southern Group MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER MAHGPH2401	8. PROJECT COST (\$000) 80,000
<p>efficient housing units for military members and their dependents stationed at Arnold/Charleston/Keesler/Shaw AFBs through the end of the lease term.</p> <p>CURRENT SITUATION: The DAF currently projects sustainment funding shortfalls of \$16M over the next 10 years, including funds for HVAC, roofing, and repairs. Additionally, there is forecasted to be a \$19M shortfall of the projected funds required to complete the Moisture Remediation Program at Keesler AFB and a \$26M shortfall of the projected funds required for mid-term reinvestment at the project. Funding shortfalls are driven factors that are beyond the privatized housing owner's control, including weak Basic Allowance for Housing growth, significant unforeseen costs (e.g., Moisture Remediation Program for Keesler AFB housing units), and higher sustainment and reinvestment needs than original expectations.</p> <p>IMPACT IF NOT PROVIDED: Project housing at the Southern Group MHPI project will continue to further deteriorate impacting the quality of life for 2,185 Airmen living on Arnold/Charleston/Keesler/Shaw AFBs. Additionally, the ongoing degradation of the units could result in increased life/health/safety issues at project units.</p> <p>ADDITIONAL: None</p>			
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Restructure Schedule:</p> <ol style="list-style-type: none"> (1) Initial Restructure discussions w/ Project Owner: Nov 22 (completed) (2) Initial Project Owner restructure proposal: Feb 23 (3) AFCEC review proposal/draft counter: Mar 23 (4) Ongoing negotiations w/ Project Owner: Apr-May 23 (5) Project Owner submit revised proposal: Jun 23 (6) DAF evaluate proposal/draft Scoring Package: Jul 23 (7) OSD/OMB Vector: Aug-Oct 23 (8) Ongoing Negotiations with Project Owner w/OSD Feedback: Nov 23-Jan 24 (9) Final Proposal from Project Owner: Jan 24 (10) Draft Restructure Approval Package & Submit to OSD/OMB: Feb 24 (11) OSD/OMB Review and Approval: Mar-May 24 (12) Draft Restructure Amendments: Jun 24 (13) Congressional Notification/Funds Transfer: Jun-Jul 24 (14) Restructure Executed: Aug 24 			

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

PLANNING AND DESIGN

Budget Request (\$ in Thousands)

FY 2024 Budget Request	\$7,815
FY 2023 Budget Request	\$2,730
FY 2023 Enactment*	\$15,000
FY 2023 Appropriated	\$17,730

Purpose and Scope

This program provides for preliminary studies to develop additional family housing facilities, on time multi-phase design, and housing community profile developments; studies for site adaptation and determination of type and design of units; and working drawings, specifications, estimates, project planning reports and final design drawings of facility housing construction projects. This includes the use of architectural and engineering services in connection with any family housing new construction or construction improvement program.

Budget Request Summary

* The FY2023 Appropriated amount includes a \$15,000 increase to Planning and Design.

Authorization is requested for:

- (1) Planning and design for future year housing programs.
- (2) FY 2024 Authorization and Appropriation of \$7,815,000 to fund this effort as outlined in the following exhibit:

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

DD FORM 1391 – Family Housing Planning and Design

1. COMPONENT AIR FORCE	FY 2024 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		4. PROJECT TITLE FAMILY HOUSING PLANNING AND DESIGN		
5. PROGRAM ELEMENT 88742	6. CATEGORY CODE 711-000	7. PROJECT NUMBER PAYZ714FNA	8. PROJECT COST (\$000) 7,815	
9. COST ESTIMATE				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
FAMILY HOUSING PLANNING AND DESIGN	LS			7,815
SUBTOTAL				7,815
TOTAL CONTRACT COST				7,815
TOTAL REQUEST				7,815
<p>10. <u>DESCRIPTION OF PROPOSED CONSTRUCTION</u>: Architect-engineer services, survey, fees, etc., in connection with advance planning and design of family housing dwelling units and properties included in or proposed for the Air Force Family Housing Construction Account.</p> <p>11. <u>PROJECT</u>: This request is for an authorization and appropriation of \$7.815 million to provide planning and design costs in connection with family housing new construction or construction improvements programs.</p> <p><u>REQUIREMENT</u>: The funds requested are necessary to procure architect-engineer services to make site and utility investigations; one time multi-phase design, and housing community profiles (HCP) developments; and for the preparation of design and specifications of advance plans for future year family housing programs in connection with any family housing new construction or construction improvements programs.</p> <p><u>IMPACT IF NOT PROVIDED</u>: The funds requested are necessary to support the development of the housing community profile planning documents and to support the new construction and construction improvement programs. Without the requested funds, housing community profiles cannot be developed and the new construction and construction improvement programs cannot be designed and constructed.</p>				

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

Operations, Utilities and Maintenance Summary
(Excludes Leasing and Privatization)

Budget Request (\$ in Thousands)

FY 2024 Budget Request	\$277,440
FY 2023 Budget Request	\$313,823
FY 2023 Enactment*	\$5,000
FY 2023 Appropriated	\$318,823

Purpose and Scope

* Funds provided by Congress in FY2023 for additional Family Housing Management are one year appropriated funds.

Provides operations and maintenance resources to fund property management, utilities, and maintenance of Air Force owned units. The Air Force requests essential resources to provide military families with housing either in the private market through assistance from a housing office, or by providing government housing. The Air Force's Military Family Housing Operation and Maintenance program emphasizes the following goals:

* Identify suitable, affordable housing for military members. Where shortages exist, identify alternative solutions, to include privatization, new construction or leased housing.

* Reduce utility consumption to increase energy efficiency and conservation.

* Provide government appliances and furniture as required.

* Invest wisely in maintenance and repairs to sustain the existing adequate housing inventory worldwide. The top priorities are life, safety, and health issues and divestiture of surplus housing.

a. Operations. This portion of the program provides for operating expenses in the following sub-accounts:

(1) Management. Includes installation-level housing management office operations. It supports the housing referral and relocation program to assist military families in locating suitable housing and implements the Fair Housing Act. Management efforts at privatized installations include duties that are inherently governmental such as asset management, housing support services, and fiscal oversight. It supports the AF Family Housing Master Plan (FHMP) planning efforts.

(2) Services. Includes basic support services comprising refuse collection and disposal; fire and police protection; custodial services; entomology and pest control; and snow removal and street cleaning. Privatized units do not receive funding from this account.

(3) Furnishings. Includes household appliances (primarily stoves and refrigerators) and furniture (in limited circumstances and mainly in overseas locations). It includes costs associated with procurement, management, and repairs of furnishings and appliance inventories.

(4) Miscellaneous. Includes payments to other Federal agencies or foreign governments (i.e., United States Coast Guard and United Kingdom) to operate housing units occupied by military personnel.

b. Utilities. Includes all purchased and base-produced heat, electricity, water, sewer, and gas commodities serving family housing. Residents purchase their own telephone, internet and cable TV service. Privatized housing units do not receive funding from this account.

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

c. Maintenance. Privatized housing units do not receive funding from this account.

Provides the following:

(1) Maintenance/Repair of Dwellings. Includes service calls, routine maintenance and repairs, and replacement of deteriorated facility components. Housing maintenance contracts are included in these costs.

(2) Exterior Utilities. Includes maintenance and repair of water, sewer, electrical, and gas lines and other utility distribution, collection, or service systems assigned to or supporting family housing areas.

(3) Other Real Property. Includes maintenance of grounds, common areas, roads, parking areas, and other property for the exclusive use of family housing occupants not included above.

(4) Alterations and Additions. Includes minor alterations to housing units or housing support facilities. Whole-house improvements with complex scopes are included in the construction program.

Operation and Maintenance FY 2024 Budget Request Summary - Highlights

The requested amount in FY 2024 is \$277,440,000. This amount, together with estimated reimbursements of \$2,500,000 will fund the FY 2024 Operation and Maintenance program of \$279,940,000.

A summary of the budget request for FY 2024 is as follows (\$ in thousands):

<u>Operations Request</u>	<u>Utility Request</u>	<u>Maintenance Request</u>	<u>Total Direct Request</u>	<u>Reimbursement</u>	<u>Total Program</u>
\$93,976	\$48,054	\$135,410	\$277,440	\$2,500	\$279,940

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

Inventory and Funding Summary (FH-2)

USAF FY 2024 PB	Fiscal Year: 2024
Family Housing Operations and Maintenance, Summary	Command: USAF
Excludes Leased Units and Costs	Exhibit: FH-2
Worldwide Summary	

<u>Inventory Data (Units)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>
Units in Being Beginning of Year	15,273	15,174	15,297
Units in Being at End of Year	15,174	15,297	15,100
Average Inventory for Year	15,224	15,236	15,199
Historic Units	96	96	96
Units Requiring FHO&M Funding			
a. Contiguous US	102	92	106
b. U.S. Overseas	0	0	0
c. Foreign	15,171	15,082	15,191
d. Worldwide	15,273	15,174	15,297

<u>Funding Requirements (\$000)</u>	<u>FY 2022</u>		<u>FY 2023</u>		<u>FY 2024</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
OPERATIONS (DIRECT)						
Management	69,064	4,537	77,042	5,057	68,023	4,476
Services	11,090	728	10,570	694	10,692	703
Furnishings	28,240	1,855	27,379	1,797	12,884	848
Miscellaneous	1,157	76	2,240	147	2,377	156
Sub-Total Direct Operations	109,551	7,196	117,231	7,695	93,976	6,183
Anticipated Reimbursements	735	48	322	21	322	21
Gross Obligations, Operations	110,286	7,244	117,553	7,716	94,298	6,204
UTILITIES (DIRECT)						
Direct Utilities	46,324	3,043	46,217	3,034	48,054	3,162
Utilities Anticipated Reimbursements	1,477	97	646	42	646	43
Gross Obligations, Utilities	47,801	3,140	46,863	3,076	48,700	3,204
MAINTENANCE (DIRECT)						
M&R Dwelling	104,627	6,873	129,322	8,488	116,453	7,662
M&R Ext. Utilities	6,083	400	7,519	494	6,771	446
M&R Other Real Property	9,733	639	12,030	790	10,833	713
Alter & Add	1,216	80	1,504	99	1,353	89
Sub-Total Direct Maintenance	121,659	7,992	150,375	9,870	135,410	8,909
Anticipated Reimbursements	3,503	230	1,532	101	1,532	101
Gross Obligations, Maintenance	125,162	8,222	151,907	9,971	136,942	9,010
GRAND TOTAL, FHO&M - Direct	277,534	18,231	313,823	20,598	277,440	18,254
Anticipated Reimbursements	5,715	375	2,500	164	2,500	164
GRAND TOTAL, FHO&M - TOA	283,249	18,606	316,323	20,762	279,940	18,419

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

USAF FY 2024 PB	Fiscal Year: 2024
Family Housing Operation and Maintenance, Summary	Command: USAF
Excludes Leased Units and Costs	Exhibit: FH-2
Contiguous US	

<u>Inventory Data (Units)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>
Units in Being Beginning of Year	102	92	106
Units in Being at End of Year	92	106	106
Average Inventory for Year	97	99	106
Historic Units	96	96	96

	<u>FY 2022</u>		<u>FY 2023</u>		<u>FY 2024</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
OPERATIONS (DIRECT)						
Management	49,553	N/A	50,078	N/A	44,215	N/A
Services	111	N/A	106	N/A	107	N/A
Furnishings	565	N/A	548	N/A	258	N/A
Miscellaneous	336	N/A	650	N/A	689	N/A
Sub-Total Direct Operations	50,565	N/A	51,382	N/A	45,269	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Operations	50,565	N/A	51,382	N/A	45,269	N/A
UTILITIES (DIRECT)						
Direct Utilities	433	N/A	352	N/A	481	N/A
Utilities Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Utilities	433	N/A	352	N/A	481	N/A
MAINTENANCE (DIRECT)						
M&R Dwelling	2,093	N/A	2,586	N/A	2,329	N/A
M&R Ext. Utilities	0	N/A	0	N/A	0	N/A
M&R Other Real Property	584	N/A	722	N/A	650	N/A
Alter & Add	60	N/A	90	N/A	68	N/A
Sub-Total Direct Maintenance	2,737	N/A	3,398	N/A	3,047	N/A
Maintenance Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Maintenance	2,737	N/A	3,398	N/A	3,047	N/A
GRAND TOTAL, FHO&M - Direct	53,735	N/A	55,132	N/A	48,797	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
GRAND TOTAL, FHO&M - TOA	53,735	N/A	55,132	N/A	48,797	N/A

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

USAF FY 2024 PB	Fiscal Year: 2024
Family Housing Operation and Maintenance, Summary	Command: USAF
Excludes Leased Units and Costs	Exhibit: FH-2
US Overseas	

<u>Inventory Data (Units)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>
Units in Being Beginning of Year	0	0	0
Units in Being at End of Year	0	0	0
Average Inventory for Year	0	0	0
Historic Units	0	0	0

	<u>FY 2022</u>		<u>FY 2023</u>		<u>FY 2024</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
OPERATIONS (DIRECT)						
Management	1,725	N/A	1,540	N/A	1,360	N/A
Services	0	N/A	0	N/A	0	N/A
Furnishings	847	N/A	821	N/A	387	N/A
Miscellaneous	0	N/A	0	N/A	0	N/A
Sub-Total Direct Operations	2,572	N/A	2,361	N/A	1,747	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Operations	2,572	N/A	2,361	N/A	1,747	N/A
UTILITIES (DIRECT)						
Direct Utilities	0	N/A	0	N/A	0	N/A
Utilities Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Utilities	0	N/A	0	N/A	0	N/A
MAINTENANCE (DIRECT)						
M&R Dwelling	0	N/A	0	N/A	0	N/A
M&R Ext. Utilities	0	N/A	0	N/A	0	N/A
M&R Other Real Property	0	N/A	0	N/A	0	N/A
Alter & Add	0	N/A	0	N/A	0	N/A
Sub-Total Direct Maintenance	0	N/A	0	N/A	0	N/A
Maintenance Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
Gross Obligations, Maintenance	0	N/A	0	N/A	0	N/A
GRAND TOTAL, FHO&M - Direct	2,572	N/A	2,361	N/A	1,747	N/A
Anticipated Reimbursements	0	N/A	0	N/A	0	N/A
GRAND TOTAL, FHO&M - TOA	2,572	N/A	2,361	N/A	1,747	N/A

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

USAF FY 2024 PB	Fiscal Year: 2024
Family Housing Operation and Maintenance, Summary	Command: USAF
Excluded Leased Units and Costs	Exhibit: FH-2
Foreign	

<u>Inventory Data (Units)</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>
Units in Being Beginning of Year	15,171	15,082	15,191
Units in Being at End of Year	15,082	15,191	14,994
Average Inventory for Year	15,127	15,137	15,093
Historic Units	0	0	0

	<u>FY 2022</u>		<u>FY 2023</u>		<u>FY 2024</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
OPERATIONS (DIRECT)						
Management	17,786	1,176	25,424	1,680	22,448	1,487
Services	10,979	726	10,464	691	10,585	701
Furnishings	26,828	1,774	26,010	1,718	12,239	811
Miscellaneous	821	54	1,590	105	1,688	112
Sub-Total Direct Operations	56,414	3,729	63,488	4,194	46,960	3,111
Anticipated Reimbursements	735	49	322	21	322	21
Gross Obligations, Operations	57,149	3,778	63,810	4,216	47,282	3,133
UTILITIES (DIRECT)						
Direct Utilities	45,891	3,034	45,865	3,030	47,573	3,152
Utilities Anticipated Reimbursements	1,477	98	646	43	646	43
Gross Obligations, Utilities	47,368	3,131	46,511	3,073	48,219	3,195
MAINTENANCE (DIRECT)						
M&R Dwelling	102,534	6,778	126,736	8,373	114,124	7,562
M&R Ext. Utilities	6,083	402	7,519	497	6,771	449
M&R Other Real Property	9,149	605	11,308	747	10,183	675
Alter & Add	1,156	76	1,414	93	1,285	85
Sub-Total Direct Maintenance	118,922	7,862	146,977	9,710	132,363	8,770
Maintenance Anticipated Reimbursements	3,503	232	1,532	101	1,532	102
Gross Obligations, Maintenance	122,425	8,093	148,509	9,811	133,895	8,872
GRAND TOTAL, FHO&M - Direct	221,227	14,625	256,330	16,935	226,896	15,034
Anticipated Reimbursements	5,715	378	2,500	165	2,500	166
GRAND TOTAL, FHO&M - TOA	226,942	15,003	258,830	17,100	229,396	15,199

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

Summary Historic Housing

Summary of Historic Housing Detail			
	<u>2022</u>	<u>2023</u>	<u>2024</u>
1. Historic Housing Costs, Non-GOQ Data			
a. Number of Non-GOQ units on NHRP (Inventory)	64	64	64
b. Improvement Costs (\$000)	0	0	0
c. Maintenance and Repair Costs (\$000)	676,243	680,054	714,057
d. Total Historic Maintenance, Repair, Improvements (\$000)	676,243	680,054	714,057
e. Average Cost Per Unit (\$000)	10,566	10,626	11,157
2. Historic Housing Costs, GOQ Data			
a. Number of GOQ units on NHRP (Inventory)	32	32	32
b. Improvement Costs (\$000)	0	0	9,282,000
c. Maintenance and Repair Costs (\$000)	420,845	332,000	75,000
d. Total Historic Maintenance, Repair, Improvements (\$000)	420,845	332,000	9,357,000
e. Average Cost Per Unit (\$000)	13,151	10,375	292,406
3. Total Historic Inventory & Costs (Non-GOQ & GOQ)			
a. Number of Non-GOQ and GOQ units on NHRP (Inventory)	96	96	96
b. Improvement Costs (\$000)	0	0	9,282,000
c. Maintenance and Repair Costs (\$000)	1,097,088	1,012,054	789,057
d. Total Historic Maintenance, Repair, Improvements (\$000)	1,097,088	1,012,054	10,071,057
e. Average Cost Per Unit (\$000)	11,428	10,542	104,907
Note:			

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

Family Housing Operation and Maintenance Reprogramming Actions

(\$ in Thousands) as of 30 Sep 2022

	<u>FY 2022 Appropriation</u>	<u>Funds Reprogrammed</u>	<u>Percent Reprogrammed</u>	<u>FY 2022 End of Year</u>
Utilities	43,668,000	3,147,020	7.21%	46,815,020
Operations				
Management	70,062,000	4,533,567	6.47%	74,595,567
Services	8,124,000	3,986,241	49.07%	12,110,241
Furnishings	26,842,000	2,307,080	8.60%	29,149,080
Miscellaneous	2,200,000	(800,000)	(36.36%)	1,400,000
Leasing	9,520,000	(3,900,000)	(40.97%)	5,620,000
Maintenance	141,754,000	(19,359,655)	(13.66%)	122,394,345
Debt	0	0	0.00%	0
Privatization	23,275,000	10,085,747	43.33%	33,360,747
Foreign Currency	0	0	0.00%	0
Total	325,445,000	0	0.00%	325,445,000

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

MANAGEMENT EXHIBIT OP-5

Management - The Management account supports housing operations to include management office personnel; supplies, equipment and custodial services; community liaison and housing support services; and housing information technology software and support. It supports studies such as the housing requirements and market analyses, preliminary studies, and engineering construction plans. It includes concept development, acquisition, and portfolio management supporting housing privatization.

	<u>(\$ in Thousands)</u>
1. FY 2023 President's Budget Request:	\$77,042
2. Congressional Adjustment	
a. Family Housing Support and Management Costs*	\$5,000
2. FY 2023 Appropriated Amount:	\$82,042
3. FY 2023 Current Estimate:	\$82,042
4. Price Growth:	\$1,618
a. General Inflation	2.10% \$1,618
5. Program Increase:	\$0
6. Program Decrease:	(\$15,637)
a. FY2023 Congressional Program Increase:	
DoD Oversight FH Management	(\$5,000)
b. FY2024 Program Decreases	(\$10,637)
c. Net Decrease	(\$15,637)
7. FY 2024 Budget Request:	\$68,023

Notes:

Analysis of changes in Management:

* The FY2023 Appropriated amount includes a \$5,000 increase to Management for increased oversight of DoD's housing portfolio, including government owned and controlled family housing, and privatized family housing.

The FY24 program sustains the FY20 Congressional funding for additional manpower needed to enhance privatization oversight. The additional manpower positions are aligned to Air Force Installation Military Housing offices, Air Force Civil Engineer Center, and Headquarters Air Force to support inherently governmental activities of privatized housing oversight, asset management, housing support services, and fiscal oversight. A total of 218 positions (GS 7-15) were added in FY21 with 100% fill rate. The also includes funds to support the FY21 NDAA mandated housing inspections for all government owned MFH. The FY24 program decreases are due to economic adjustments and a projected favorable foreign currency rate changes for overseas costs as well as a program review of requirements and prior years' execution. The FY 2024 Budget Request of \$68,023 represents 20.3% reduction compared to the FY2023 President's Budget Request.

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

SERVICES EXHIBIT OP-5

Services Provides basic municipal-type support services such as refuse collection and disposal; fire and police protection; entomology and pest control; snow removal; street cleaning, and custodial services for government-owned family housing units. Since private developers are responsible for municipal services, installations with privatized housing have no requirements for funding. Services at remaining government-owned housing units are based on historical obligations.

			<u>(\$ in Thousands)</u>
1. FY 2023 President's Budget Request:			\$10,570
2. FY 2023 Appropriated Amount:			\$10,570
3. FY 2023 Current Estimate:			\$10,570
4. Price Growth:			\$222
a. General Inflation	2.10%	\$222	
5. Program Increase:			\$0
6. Program Decrease:			(\$100)
7. FY 2024 Budget Request:			\$10,692

Notes:

Analysis of changes in Services:

The FY24 requirement is based on historical expenditures and for adjustments in service contracts at OCONUS locations, and for a standard inflation rate of 2.1%. The FY 2024 Budget Request of \$10,692 is based on a review of program requirements and prior years' execution.

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

FURNISHINGS EXHIBIT OP-5

Furnishings The Air Force provides furnishings support to members in overseas locations and for general officers residing in government-provided and privatized housing. This Furnishing account includes furnishing office personnel, procurement for initial issue and replacement of household equipment, domestic appliances (primarily stoves and refrigerators) and for furniture in limited circumstances. It funds the control, moving, and handling of furnishings inventories, and the maintenance and repair of such items. Privatized housing units do not receive funding with the exception for residents of general officers' quarters.

Loaner furniture is provided to military families overseas so they may occupy permanent quarters prior to the arrival of their personally-owned furniture.

“Loaner kits” consisting of beds, sofas, dining tables, etc., allows members to set up their household faster while reducing the cost of temporary quarters. In addition, there are some furnishings normally built into CONUS houses that are often limited or nonexistent in foreign private rentals, such as wardrobes (clothes closets), kitchen cabinets, sideboards and appliances. These items are provided to families as required.

The furnishings account funds essential furnishings at levels consistent with the needs of the Air Force.

				<u>(\$ in Thousands)</u>
1. FY 2023 President's Budget Request:				\$27,379
2. FY 2023 Appropriated Amount:				\$27,379
3. FY 2023 Current Estimate:				\$27,379
4. Price Growth:				\$575
a. General Inflation	2.10%	\$575		
5. Program Increase:				\$0
6. Program Decrease:				(\$15,070)
7. FY 2024 Budget Request:				\$12,884

Notes:

Analysis of changes in Furnishings:

The \$15,070 decrease represents a 55% decrease compared to the FY2023 President's Budget Request and is a result of a FY24 database error, underfunding Furnishings. DAF will propose an \$11,000 Technical Adjustment from Maintenance to support Furnishings. The total Furnishings FY2024 Budget Request is \$23,884.

The FY24 requirement is based on historical expenditures and for a standard inflation rate of 2.1%. The DAF has a large OCONUS requirement for families and assists with helping families to occupy permanent quarters faster. This helps to avoid higher costs in other accounts such as military allowances and other support appropriations.

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

MISCELLANEOUS EXHIBIT OP-5

Miscellaneous Includes payments to other Federal agencies or foreign governments (i.e. United States Coast Guard and United Kingdom) to operate housing units occupied by Air Force personnel. For locations that are U.S. government owned or controlled, funding is based on historical obligations. No funding is provided in this category for installations with privatized housing.

		<u>(\$ in Thousands)</u>
1. FY 2023 President's Budget Request:	For Official Use Only	\$2,240
2. FY 2023 Appropriated Amount:	March 2023	\$2,240
3. FY 2023 Current Estimate:		\$2,240
4. Price Growth:		\$47
a. General Inflation	2.10%	\$47
5. Program Increase:		\$90
6. Program Decrease:		\$0
7. FY 2024 Budget Request:		\$2,377

Notes:

Analysis of changes in Miscellaneous:

The FY2024 increase includes a DAF adjustment to accommodate projected upward escalation in fuel delivery costs.

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

UTILITIES EXHIBIT OP-5

This program provides for all utilities consumed in government-owned family housing. This program funds electricity, natural gas, fuel oil and other purchased heating, water, sewage and waste systems. Military Family Housing residents and housing management continue to work towards meeting energy reduction goals. However, as the majority of homes become privatized, and utility cost responsibility is shifted to private developers, this becomes less of an overall government concern.

Utilities Reconciliation Increases Decreases

	<u>(\$ in Thousands)</u>
1. FY 2023 President's Budget Request:	\$46,217
2. FY 2023 Appropriated Amount:	\$46,217
3. FY 2023 Current Estimate:	\$46,217
4. Price Growth:	\$971
a. General Inflation	2.10% \$971
5. Program Increase:	\$866
6. Program Decrease:	\$0
7. FY 2024 Budget Request:	\$48,054

Notes:

Analysis of changes in Utilities:

The FY24 increase reflects program wide increased utility costs and is based on a review of program requirements and prior years' execution.

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

Family Housing Summary of Utilities Detail

	2022	2023	2024
Total Cost of Utilities (\$000)	46,324	46,217	48,054
Utility Quantities			
Electricity (KwH)	200,317,054	204,323,395	208,409,863
Heating			
Gas(CF)	570,439,400	581,848,188	593,485,152
Fuel Oil			
Residuals (BBLs)			
Distillates (BBLs)	17,747	18,102	18,464
Purchased Steam (MBTU)	309,311	315,497	321,807
Heat Plants Coal Fired (MBTU)	0	0	0
Heat Plants Other Than Gas, Oil, Coal (MBTU)	0	0	0
Propane (BBLs)	13,379	13,646	13,919
Water (Kgal)	2,435,906	2,484,624	2,534,316
Sewage (Kgal)	2,157,831	2,245,008	2,289,908

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

MAINTENANCE EXHIBIT OP-5

Maintenance provides for sustainment of family housing assets through service calls, change of occupancy rehabilitation, routine maintenance, preventive maintenance, interior and exterior painting, and major repairs. Housing condition assessments conducted for the AF FHMP substantiate that the maintenance and repair funding profile represents a balanced, fiscally constrained program, while ensuring sufficient Real Property Maintenance by Contract (RPMC) funds are available to maintain the existing adequate inventory. MFH maintenance is categorized in two types of service.

The first is routine recurring work such as service calls and repairs necessary to keep a house habitable (e.g. repairing leaking faucets, replacing broken windows, or replacing furnace filters). It includes maintenance performed during change of occupancy, such as painting or carpet replacement.

The second type of service is major maintenance and repair needed to fix or replace major systems and their components that are nearing the end of their useful life. Examples include restoring or replacing structural items including roofs, electrical, plumbing, heating, ventilation and air conditioning, landscaping and complete exterior painting.

No maintenance funds are provided for privatized housing units which are the responsibility of the privatization property owner.

				<u>(\$ in Thousands)</u>
1. FY 2023 President's Budget Request:				\$150,375
2. FY 2023 Appropriated Amount:				\$150,375
3. FY 2023 Current Estimate:				\$150,375
4. Price Growth:				\$3,158
a. General Inflation	2.10%	\$3,158		
5. Program Increase:				\$0
6. Program Decrease:				(\$18,123)
7. FY 2024 Budget Request:				\$135,410

Notes:

Analysis of changes in Maintenance:

The FY24 program provides funding necessary to prevent deterioration of the government-owned housing inventory, routine recurring repair, and to address 136 units with low facility conditions ratings through maintenance and repair projects. The FY24 program decrease is due to economic adjustments and a projected favorable foreign currency rate changes for overseas costs as well as a program review of requirements. DAF will request a Technical Adjustment to realign \$11,000 from Maintenance to Furnishings. The total Maintenance FY2024 Budget Request is \$124,410.

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

MAINTENANCE AND REPAIR NON-GOQ UNITS EXCEED \$20,000 THRESHOLD

This information complies with the House of Representatives, Military Construction Appropriations Bill (Conference Report 106-221) requiring the Services to report major maintenance and repair expenditures projected to exceed \$20,000 per unit. While these projects are shown as line items here, the maintenance budget estimate includes them among overall requirements for the entire inventory. AF Policy is to program projects that exceed \$20K threshold when work cannot await MILCON funding or housing privatization. Work includes actions that keep "good units good", protect life, safety, and health, and ensure facility preservation.

Location	Base	Number of Units	Year Built	High Unit Cost (\$000)	Unit (NSM)	Project (NSM)	Total Cost (\$000)	Significant O&M FY 2019-2023 (\$000)
OVERSEAS								
Germany	Spangdahlem	17	2008	342.0	197	2,561	4,852.0	100
<p>Work includes the repair and renovation of 17 Military Family Housing units. Work will include but is not limited to the removal/deactivation of the existing domestic water piping throughout the entire facilities and replacement with new stainless-steel piping. Also included is the removal and replacement of sections of the sewer pipe system, including broken drain inlets at various locations (bathroom tub and shower, kitchen sink, etc.) throughout the facilities. The work will also include the replacement of kitchen and bath cabinetry, plumbing fixtures, and appliances. Interior lighting fixtures will be updated with LED fixtures throughout, and dimmer switches installed in the main living spaces (kitchen, dining room, living room, and family room). Also included is all necessary demolition, mechanical, masonry, flooring and wall tile replacement, paint and wallpaper.</p>								
Japan	Yokota	4	1975	1,325.0	119	478	2,885.0	0
<p>Project provides whole-house lifecycle repair and modernization to Building 4441, 4 Garden Units, West MFH. Architectural work includes: replace ceiling finish, flooring finish, repaint interior, replace widows and remove window shaker units. Mechanical work includes: repair plumbing system and fixtures, replace window type A/C with ductless split units. Electrical work includes: replace interior light fixtures with new energy efficient type; replace all electrical outlets; and replace electrical panel. Fire and safety work includes fire alarm and sprinkler. Abate asbestos. Structural and all other work to bring facility up to modern code compliance for seismic and emergency egress. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria (UFC).</p>								
Japan	Kadena	68	1990	506.0	129	8,772	34,413.0	0
<p>Project provides whole-house lifecycle repair and modernization for high-rise tower building 2602 (68 units, TJ3-90p10, JNCO) located at Kishaba, Camp Foster. Project includes system upgrades to meet current codes and modern energy efficiency standards, to include Shell & Core: Building System - Electrical Systems, Exterior Structure, Fire and Life Safety, Mechanical Systems, Plumbing Systems, and Roof Structure; Common Area – Corridors, Garbage Disposal Rooms, Janitors Closets, Mechanical Room, Recreation Rooms, and Women/Men Restrooms; Lot – Utilities and Dwelling unit: Building System - Electrical Systems, Exterior Structure, Fire and Life Safety, Interior Structure, and Plumbing Systems; Space – Balcony, Bathroom, Bedroom, Dining Room, Exterior Storage, Family Room, Foyer, Hallway, Interior Storages, Kitchen, Laundry Room, Closets, and Living Room. In addition, environmental (asbestos/lead) sampling, testing, abatement, and all other related work are programmed into the project to provide contemporary community living standards. Project programmed in accordance with the latest approved Housing Community Profile.</p>								
Japan	Kadena	12	1976	100.0	176	2,112	1,200.0	0
<p>Project provides lifecycle repair by replacement for flooring finishes at Arnold Terrace (12 units, SOQs) Project include removal of existing carpet, removal of carpet padding, asbestos abatement of mastic and older floor tile under carpet padding and installation of luxury vinyl tile (LVT) faux-wood flooring. This project will avoid future costs associated with carpet cleaning, and replacement costs. The LVT faux wood is a low maintenance product which has an extended lifecycle exceeding that of carpet, normally 10 to 12 years. Project programmed in accordance with the latest approved Housing Community Profile.</p>								

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

Location	Base	Number of Units	Year Built	High Unit Cost (\$000)	Unit (NSM)	Project (NSM)	Total Cost (\$000)	Significant O&M FY 2019-2023 (\$000)
Japan	Kadena	188	1977	36.9	124	23,312	6,944.0	0
<p>Project provides sustainment repair of roof coating at Washington Heights, Kadena AB (188 units). In addition; environmental (asbestos/lead) sampling, testing, remediation and all other related work are incorporated into the project to provide complete and usable facilities. Project programmed in accordance with the latest approved Housing Community Profile.</p>								
Japan	Kadena	68	1986	430.0	126	8,568	29,214.0	0
<p>Project provides whole-house lifecycle repair and modernization for high-rise tower building 4511 (68 units, TJ3-86p8p9) located at Camp Courtney. Project includes system upgrades to meet current codes and modern energy efficiency standards, to include Shell & Core: Building System - Electrical Systems, Exterior Structure, Fire and Life Safety, Mechanical Systems, Plumbing Systems, and Roof Structure; Common Area – Corridors, Garbage Disposal Rooms, Janitors Closets, Mechanical Room, Recreation Rooms, and Women/Men Restrooms; Lot – Utilities and Dwelling unit: Building System - Electrical Systems, Exterior Structure, Fire and Life Safety, Interior Structure, and Plumbing Systems; Space – Balcony, Bathroom, Bedroom, Dining Room, Exterior Storage, Family Room, Foyer, Hallway, Interior Storages, Kitchen, Laundry Room, Closets, and Living Room. In addition, environmental (asbestos/lead) sampling, testing, abatement, and all other related work are programmed into the project to provide to provide contemporary community living standards. Project programmed in accordance with the latest approved Housing Community Profile.</p>								

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

GENERAL AND FLAG OFFICERS' QUARTERS (GFOQ)

Anticipated Operations, Maintenance and Repair Expenditures Exceeding \$35,000 per Unit (FH-5)

(Dollars in Thousands)

Installation	Quarters Address	Year Built	Size NSF	Operations Cost	Maintenance Cost	Total OMR > \$35K Cost	Utility Cost	Leasing Cost	Historic Preservation Cost	Total FH O&M Cost	Significant O&M FY 2019-2023
OVERSEAS											
Osan AB	1081 Millett Rd	2007	2,225	\$1.9	\$8.8	\$57.0	\$7.5	\$0.0	\$0.0	\$75.2	\$0.0
Provide all labor, materials, and equipment necessary to repair backyard and clean storm drainage at General Officer Quarters (GOQ) building 1081. This project includes the following principal features: expand outdoor floor deck to the back fenceline to cover over unusable low laying slope with poor drainage; clean storm drainage channels; restore all areas affected by this project.											
Ramstein AB	1010 Cannon Ct	1956	3,161	\$9.4	\$50.9	\$60.3	\$7.3	\$0.0	\$0.0	\$67.6	\$26.5
Minor Alteration GOQ 1010: Install retractable motorized awning to enhance GO outdoor entertainment area.											
Ramstein AB	1012 Cannon Ct	1958	3,181	\$10.3	\$50.9	\$61.2	\$7.3	\$0.0	\$0.0	\$68.5	\$27.7
Minor Alteration GOQ 1012: Install retractable motorized awning to enhance GO outdoor entertainment area.											
Ramstein AB	1024 Minnesota Pl	2004	2,752	\$10.3	\$46.8	\$57.1	\$7.3	\$0.0	\$0.0	\$64.4	\$27.0
Minor Alteration GOQ 1024: Install retractable motorized awning and extend existing patio to meet size standards to enhance GO outdoor entertainment area.											
Ramstein AB	1025 Minnesota Pl	2004	2,752	\$10.3	\$46.8	\$57.1	\$7.3	\$0.0	\$0.0	\$64.4	\$27.0
Minor Alteration GOQ 1025: Install retractable motorized awning and extend existing patio to meet size standards to enhance GO outdoor entertainment area.											
Ramstein AB	1026 Minnesota Pl	2004	2,752	\$10.3	\$46.8	\$57.1	\$7.3	\$0.0	\$0.0	\$64.4	\$27.0

**DEPARTMENT OF THE AIR FORCE
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Installation	Quarters Address	Year Built	Size NSF	Operations Cost	Maintenance Cost	Total OMR > \$35K Cost	Utility Cost	Leasing Cost	Historic Preservation Cost	Total FH O&M Cost	Significant O&M FY 2019-2023
Minor Alteration GOQ 1026: Install retractable motorized awning and extend existing patio to meet size standards to enhance GO outdoor entertainment area.											
Ramstein AB	1027 Minnesota Pl	2006	2,752	\$9.4	\$39.8	\$49.2	\$7.3	\$0.0	\$0.0	\$56.5	\$27.0
Minor Alteration GOQ 1027: Install retractable motorized awning and extend existing patio to meet size standards to enhance GO outdoor entertainment area.											
Ramstein AB	1028 Minnesota Pl	2006	3,214	\$10.3	\$45.4	\$55.7	\$7.3	\$0.0	\$0.0	\$63.0	\$28.9
Minor Alteration GOQ 1028: Install retractable motorized Awning in accordance with the 2021 General Officer Quarters Individual Facility Profile.											
Ramstein AB/Vogelweh	1473 Alabama St	2008	2,752	\$9.4	\$39.8	\$49.2	\$7.3	\$0.0	\$0.0	\$56.5	\$0.0
Minor Alteration GOQ 1473: Install retractable motorized awning and extend existing patio to meet size standards to enhance GO outdoor entertainment area.											
Ramstein AB/Vogelweh	1472 Alabama St	2008	2,752	\$9.4	\$39.8	\$49.2	\$7.3	\$0.0	\$0.0	\$56.5	\$0.0
Minor Alteration GOQ 1472: Install retractable motorized awning to enhance GO outdoor entertainment area.											
Yokota AB	694 Kenney Ct	1984	2,221	\$7.7	\$63.8	\$71.4	\$0.0	\$0.0	\$0.0	\$71.4	\$0.0
Repair Garage Door & Garage Door Opener, GOQ 694 (1 Unit). Perform all work necessary to repair Garage Door and Garage Door Opener in General Officer Quarter, building 694. The scope of work for this project includes, removal and replacement of existing garage door and garage door opener, and all other associated work. Execute all other incidental work as required.											
Total GOQ Units				\$98.7	\$479.6	\$624.5	\$73.2	\$0.0	\$0.0	\$708.4	\$191.1

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
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GENERAL AND FLAG OFFICERS' QUARTERS

Quarters 6,000 Net Square Feet (FH-10)

State/Country	Installation	Quarters ID	Year Built	Size NSF	Total FHO&M Cost (\$000)	Alternative Use	Cost to Convert Unit	If O&M >\$35K Demolish & Rebuild Cost
Colorado	USAF Academy	6950 Otis	1929	11553	\$35	None	N/A	N/A
Colorado	USAF Academy	6776 Carlton	1931	10846	\$35	None	N/A	N/A
Total:					\$70		0.00	0.00

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
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Privatized GFOQ Operations, Maintenance and Repair Costs Exceeding \$50,000 (FH-12)

<u>State/Country</u>	<u>Installation</u>	<u>Quarters ID</u>	<u>Year Built</u>	<u>Size NSF</u>	<u>Operations Cost</u>	<u>Maintenance and Repair Cost (Note 1)</u>	<u>Total FH O&M Cost</u>
Alaska	JBER	63 Birch Hill	2007	3853	29.2	30.7	59.9
Alaska	JBER	8433 Mitchell	1942	3986	30.6	113.5	144.1
Florida	MacDill	8208 Constellation Blvd	2009	4178	6.0	57.2	63.2
Hawaii	JBPHH	301 Julian Ave	1941	3913	28.4	36.7	65.1
Hawaii	JBPHH	601 Boquet Blvd	1941	3145	23.3	27.1	50.4
Louisiana	Barksdale	201 Ira Eaker	1933	3566	5.7	45.3	50.9
Texas	JBSA-Randolph	1 Main Circle (300)	1931	4859	6.9	60.2	67.1
Total					130.1	370.7	500.7

Notes:

Cost incurred per unit by the private sector developer/partner/owner for Fiscal Year 2022 (\$ in Thousands).

- (1) Maintenance & Repair includes Capital Repair & Replacement and reinvestment Costs
- (2) Total O&M cost are from quarterly reports
- (3) This annual report complies with the FY 2009 National Defense Authorization Act (NDAA), amended Section 2805 requirement.

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**DEPARTMENT OF THE AIR FORCE
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REIMBURSEMENT EXHIBIT OP-5

Includes collections received from rental of Air Force family housing units to foreign nationals, civilians and others. Included in the estimate are the anticipated reimbursements due to members who voluntarily separate that are authorized to live in government quarters for up to six months after separation.

		<u>(\$ in Thousands)</u>
1. FY 2023 President's Budget Request:		\$2,500
2. FY 2023 Appropriated Amount:		\$2,500
3. Supplementals:		\$0
4. Price Growth:		\$0
5. Functional Program Transfers:		\$0
6. Program Increases:		\$0
7. Program Decreases		\$0
8. FY 2023 Current Estimate:		\$0
9. Price Growth:		
a. Inflation	0.00%	\$0
10. Functional Program Transfer:		\$0
11. Program Increases:		\$0
12. Program Decreases: Adjusted based on historical data		\$0
13. FY 2024 Budget Request:		\$2,500

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

Leasing

Budget Request (\$ in Thousands)

FY 2024 Budget Request	\$5,143
FY 2023 Budget Request	\$7,882

Purpose and Scope

Leasing provides privately owned housing for assignment as government quarters at both domestic and foreign locations when the local economy and on-base housing cannot satisfy requirements. The leasing program is authorized by 10 United States Code (U.S.C.) §2828 and provides for payment of rental and operation and maintenance costs of privately owned quarters for assignment as government quarters to military families. This program includes funds needed to pay for services such as utilities and refuse collection when these services are not part of the lease agreement. The Air Force (AF) also uses the authorities in 10 U.S.C. §2834 to participate in Department of State (DoS) embassy leased housing pools.

The AF continues to rely on the private sector to meet the majority of housing needs. Where the private sector rental markets and on-base housing cannot meet requirements and cost-effective alternatives do not exist, short and long-term leases are used. The AF must use the leasing program in high-cost areas to obtain adequate housing to meet critical needs and to avoid unacceptably high out-of-pocket costs for the member where government-owned housing is not available.

Program Summary - Highlights

Authorization is requested to fund leases and related expenses in FY 2024. The FY 2024 request for family housing leasing points is summarized as follows:

		FY 2022		FY 2023		FY 2024	
		Used	Cost (\$000)	Used	Cost (\$000)	Used	Cost (\$000)
	Lease Pts						
Foreign:	8,988	84	\$4,908	100	\$7,357	84	\$5,113
Domestic:	3,333	1	\$30	15	\$525	1	\$30
Total:	12,321	85	\$4,938	115	\$7,882	85	\$5,143

Foreign Leasing

Congress authorized leasing in foreign countries in 10 U.S.C. §2828 as amended, which limits the number of lease points authorized and funds appropriated, and as required, through notifications prior to execution of lease agreements exceeding \$1M annually. The AF strategy is to provide adequate housing for our personnel serving in other countries where military family housing is not available. Foreign leases are primarily provided at Aviano, Italy and Doha, Qatar and other countries to support the direct AF mission.

The AF also provides appropriate funding support to accompanied military members and DoD civilians assigned at the DoS embassies where their housing and related services are provided by the DoS embassies under the authority of 10 U.S.C. §2834. DoS provides leased housing support through the International Cooperative Administrative Support Services (ICASS) program and requires ICASS administrative fees.

Domestic Leasing

Congress authorized domestic leasing program in 10 U.S.C. §2828 as amended, which limits the number of units authorized at any one time and specifies the maximum cost limitation.

The AF supports independent duty personnel residing in high cost rental areas of which their duty locations are geo-graphically separated and/or outside of commuting distance from the nearest military installations with government-owned or privatized family housing. This support is provided since adequate housing is not available within member's housing allowances.

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
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RECONCILIATION OF INCREASES AND DECREASES

LEASING EXHIBIT OP-5

			<u>(\$ in Thousands)</u>
1. FY 2023 President's Budget Request:			\$7,882
2. FY 2023 Appropriated Amount:			\$7,882
3. FY 2023 Current Estimate:			\$7,882
4. Price Growth:			\$166
a. General Inflation	2.10%	\$166	
5. Program Increase:			\$0
6. Program Decrease:			(\$2,905)
7. FY 2024 Budget Request:			\$5,143

Notes

The attached leasing charts reflect changes to the program by locations and type of lease. These requirements are a direct result of changes to missions, changes in accompanied requirements, and other housing needs. The FY24 program decreases are due to economic adjustments and a projected favorable foreign currency rate changes for overseas costs as well as decreases in leasing requirements. The FY 2024 Budget Request of \$5,143 is based on a program review of requirements and prior years' execution and represents 36.8% reduction compared to the FY2023 President's Budget Request.

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

Analysis of Leased Units Exhibit (FH-4)

LOCATION	FY 22			FY 23			FY 24		
	# UNITS	LEASE MONTHS	COST (\$000)	# UNITS	LEASE MONTHS	COST (\$000)	# UNITS	LEASE MONTHS	COST (\$000)
DOMESTIC LEASES									
CONUS-wide (AF Recruiters, ROTC staffs, & other)	1	12	\$30	15	180	\$525	1	12	\$30
Unassigned	3,332	0	\$0	3,318	0	\$0	3,332	0	\$0
TOTAL DOMESTIC LEASES	3,333	12	\$ 30	3,333	180	\$ 525	3,333	12	\$ 30
FOREIGN LEASES									
Department of State (\$2834):									
Abu Dhabi, UAE	10	120	\$651	13	156	\$1,045	10	120	\$662
Amman, Jordan	5	60	\$229	6	72	\$507	5	60	\$233
Bangkok, Thailand	1	12	\$42	1	12	\$65	1	12	\$45
Bogotá, Colombia	7	84	\$434	7	84	\$497	7	84	\$442
Brasilia/Rio De Janeiro, Brazil	2	24	\$152	1	12	\$121	2	24	\$159
Cairo, Egypt	3	36	\$145	5	60	\$425	3	36	\$152
Chiang Mai, Thailand	2	24	\$65	2	24	\$85	2	24	\$69
Classified Location	2	24	\$147	3	36	\$275	2	24	\$153
Copenhagen, Denmark	2	24	\$155	2	24	\$212	2	24	\$161
Doha, Qatar	2	24	\$152	2	24	\$174	2	24	\$174
Mexico City, Mexico	11	132	\$587	10	120	\$573	11	132	\$604
Oslo, Norway	0	0	\$0	1	12	\$92	0	0	\$0
New Dehli, India	1	12	\$63	0	0	\$0	1	12	\$67
Paris, France	10	120	\$817	12	144	\$1,188	10	120	\$835
Santiago, Chile	2	24	\$97	2	24	\$129	2	24	\$106
Tel Aviv, Israel	1	12	\$50	2	24	\$195	1	12	\$56
DoS Subtotal	61	732	\$3,786	69	828	\$5,583	61	732	\$3,918
AF Foreign Leases (\$2828):									
Doha, Qatar	6	72	\$496	10	120	\$755	6	72	\$527
Geilenkirchen, Germany	1	12	\$62	1	12	\$69	1	12	\$72
Aviano, Italy	15	180	\$497	18	216	\$825	15	180	\$522
Mayaguez, Puerto Rico	0	0	\$0	1	12	\$53	0	0	\$0
Stavanger, Norway	1	12	\$67	1	12	\$72	1	12	\$74
AF Foreign Leases Subtotal	23	276	\$ 1,122	31	372	\$ 1,774	23	276	\$ 1,195
Unassigned	8,904	0	\$0	8,888	0	\$0	8,904	0	\$0
TOTAL FOREIGN LEASES	8,988	1,008	\$ 4,908	8,988	1,200	\$ 7,357	8,988	1,008	\$ 5,113
GRAND TOTAL FH-4	12,321	1,020	\$ 4,938	12,321	1,380	\$ 7,882	12,321	1,020	\$ 5,143

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

Analysis of High Cost Leased Units (FH-4) (Other than Section 801)

LOCATION	FY24 TOTAL LEASES PER LOCATION	FY22			FY23			FY24		
		HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)	HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)	HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)
DOMESTIC LEASES	0	0	\$38,015	\$0	0	\$38,015	\$0	0	\$38,015	\$0
Sub-Total Domestic High-cost	0	0		\$0	0		\$0	0		\$0
FOREIGN LEASES										
Doha, Qatar	6	6	\$58,170	\$496	10	\$58,170	\$755	6	\$58,170	\$527
Geilenkirchen, Germany	1	1	\$58,170	\$62	1	\$58,170	\$69	1	\$58,170	\$72
Stavanger, Norway	1	1	\$58,170	\$67	1	\$58,170	\$72	1	\$58,170	\$74
Sub-Total Foreign High-cost	8	8		\$625	12		\$896	8		\$673
GRAND TOTAL FH-4A	8	8		\$625	12		\$896	8		\$673

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**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FISCAL YEAR 2024 BUDGET REQUEST**

FAMILY HOUSING PRIVATIZATION

Budget Request (\$ in Thousands)

FY 2024 Budget Request	\$31,803
FY 2023 Budget Request	\$33,517
FY 2023 Enactment*	\$5,000
FY 2023 Appropriation	\$38,517

Purpose and Scope

* Funds provided by Congress in FY2023 for additional Privatization is one year appropriated funds.

The Department of the Air Force uses the Military Housing Privatization Initiative (MHPI) program to provide quality and affordable housing to military members and their families throughout the continental United States (U.S.) plus Alaska and Hawaii at locations where adequate housing in the local community is not sufficient. The Air Force's program consists of an end state of 52,243 privatized homes at 63 installations within 31 privatization projects. This represents 99.8% of the total on-base family housing inventory in the U.S. The Air Force plans to complete the Initial Development Period for 100% of the projects by the end of FY24, extended from FY19 due to environmental remediation delays and time required to accumulate funds for demolition. To date, privatization will provide the Air Force with 22,243 new homes and 12,295 renovated homes, in addition to the 17,643 homes conveyed as-is at project closings.

The Air force is focused on sustaining the housing privatization program through detailed portfolio and asset management process. The Air Force remains committed to providing members and their families access to safe and adequate housing facilities and services.

Program Summary

The FY 2024 funding request provides \$31,803,000 portfolio oversight and management. This program funds all costs related to family housing privatization, to include civilian pay for portfolio management personnel, privatized housing resident advocates, travel, contracts for environmental assessments, financial consultant services, project construction oversight, and training. This funding ensures the Air Force maintains oversight and accountability and fulfills reporting requirements mandated in Title 10, United States Code, Section 2885. In addition, long-term project oversight is essential to ensuring the Air Force continues to receive quality housing from the privatized housing project owners.

It is estimated that the Air Force will pay basic allowance for housing (BAH) under section 403 of title 37 to members living in privatized housing the amounts of \$968,643,171 in FY 2023 and \$1,009,326,184 in FY 2024. The number of units of military family housing upon which these estimated payments are made is 39,357 in FY 2023 and 40,207 in FY 2024. The number of units of military unaccompanied housing upon which these estimated payments are made is 94 in FY 2023 and 112 in FY 2024.

These estimates meet the reporting requirement stipulated in 10 USC 2884(b)(2). However, it must be noted that it is difficult to project the true cost of BAH allowances provided to members living in privatized housing. BAH allowances for members in privatized housing are not specifically tracked in budget or execution data, as these members receive the same allowances as those who live on the economy. BAH accounting data is available for only the various categories of payments (for instance, domestic with and without dependents, partial, overseas housing allowances, etc.).

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FISCAL YEAR 2024 BUDGET REQUEST**

RECONCILIATION OF INCREASES AND DECREASES

Housing Privatization Exhibit OP-5

Housing Privatization Support

	<u>(\$ in Thousands)</u>
1. FY 2023 President's Budget Request:	\$33,517
2. Congressional Adjustment	
a. Family Housing Support and Management Costs	\$5,000
2. FY 2023 Appropriated Amount:	\$38,517
3. FY 2023 Current Estimate:	\$38,517
4. Price Growth:	\$704
a. General Inflation	2.10% \$704
5. Program Decrease:	(\$7,418)
a. FY2023 Congressional Program Increase:	
DoD Oversight FH Management	(\$5,000)
b. FY2024 Program Decreases	(\$2,418)
c. Net Decrease	(\$7,418)
6. Program Increase:	\$0
7. FY 2024 Budget Request:	\$31,803

Notes:

Analysis of changes in Privatization:

* The FY2023 Appropriated amount includes a \$5,000 increase to for Privatization Support for increased oversight of DoD's housing portfolio, including government owned and controlled family housing, and privatized family housing.

The FY24 program continues to provide funds for mandated housing inspection and assessment requirements as required by the National Defense Authorization Acts for FY 2020 and FY 2021, and funding for MHPI Resident Advocates at installations with DAF privatized housing. The Air Force is committed to long-term project oversight to ensure program accountability and compliance. The FY 2024 Budget Request of \$31,803 is based on after program review of requirements and prior years' execution and represents a 22.13% decrease compared to the FY 2023 President's Budget Request.

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
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Family Housing Privatization Comparison Exhibit (FH-6)

Privatization Date ¹	MHPI Project Name ²	Installation/State ³	Approved by OSD & OMB ⁴						Actual/Current ⁵				MHPI Authorities ¹³			
			No. Units Conveyed ²	No. End State Units ⁶	Funding Source ⁶				No. Units Conveyed ²	End State Units ¹⁰	Total No. Units in Current Inventory ¹¹	Funding Source ¹²				
					Amount (\$M) ^{7a}	Budget Year(s) ^{7b}	Type of Funds ^{7c}	Source Project Name ^{7d}				Amount (\$M) ¹²		Budget Year(s) ¹²	Type of Funds ¹²	Source Project Name ¹²
Aug-98	Lackland I	Lackland AFB, TX (Ph I)	272	420	6.200	97	Construction	Lackland SIOH	272	420	420	6.161	97	Construction	Lackland SIOH	1, 2, 5
						96	Construction	Lackland					96	Construction	Lackland	
Sep-00	Robins I	Robins AFB, GA (Ph I)	670	670	12.800	98	Construction	Robins Replace MFH Ph 4 (60)	0	0	0	17.164	05	FHIF	Wright Patterson II	1, 2, 5
						97	Construction	Dyess Construct MFH Ph 1 (70)					98	Construction	Robins Replace MFH Ph 4 (60)	
													97	Construction	Dyess Construct MFH Ph 1 (70)	
Sep-00	Dyess	Dyess AFB, TX	0	402	16.300	99	Construction	Dyess-Construct MFH Ph 2 (64)	0	402	402	16.269	99	Construction	Dyess-Construct MFH Ph 2 (64)	1
						98	Construction	Dyess-Construct MFH Ph 1 (70)					98	Construction	Dyess-Construct MFH Ph 1 (70)	
Mar-01	Elmendorf I	Elmendorf AFB, AK (Ph I)	584	828	23.304	98	Improvement	Elmendorf-Improve MFH Ph 9 (82 units)	584	828	828	23.304	98	Improvement	Elmendorf-Improve MFH Ph 9 (82 units)	1, 5
								HRSO to FHIF							HRSO to FHIF	
Aug-02	Wright-Patterson I	Wright-Patterson AFB, OH (Ph I)	1,733	1,536	10.813	02	Improvement	Hickam-Privatize MFH	1,733	1,536	1,536	10.715	02	Improvement	Hickam-Privatize MFH	1, 2, 5
						99	Construction	Wright Patterson-Replace 40 Units					99	Construction	Wright Patterson-Replace 40 Units	
Apr-03	Kirtland	Kirtland AFB, NM	1,783	1,078	24.221	02	Construction	Travis - Replace MFH Ph 1	1,783	1,078	1,303	24.013	02	Construction	Travis - Replace MFH Ph 1	1, 2, 5
						02	Construction	Mountain Home-Replace MFH 56 Units					02	Construction	Mountain Home-Replace MFH 56 Units	
						99	Construction	Kirtland-Replace MFH Ph 5 (37)					99	Construction	Kirtland-Replace MFH Ph 5 (37)	
Aug-04	Buckley	Buckley AFB, CO	0	351	15.619	04	Improvement	Hickam - Improve 190 MFH	0	351	351	17.893	04	Improvement	Hickam - Improve 190 MFH	1, 5
						02	Construction	Buckley-Privatize MFH					02	Construction	Buckley-Privatize MFH	
Sep-04	Elmendorf II	Elmendorf AFB, AK (Ph II)	986	1,194	41.496	03	Improvement	Elmendorf-192 Ph 11 Improve	986	1,194	1,194	41.496	03	Improvement	Elmendorf-192 Ph 11 Improve	1, 4, 5
						02	Improvement	Elmendorf-Privatize MFH					02	Improvement	Elmendorf-Privatize MFH	
Feb-05	Hickam I	Hickam AFB, HI (Ph I)	1,356	1,356	4.194	02	Improvement	Hickam Privatize MFH	1,356	1,356	1,356	4.185	02	Improvement	Hickam Privatize MFH	1, 5
Sep-05	Offutt	Offutt AFB, NE	2,600	1,640	12.568	01	Improvement	Offutt Privatize MFH	2,600	1,640	1,954	12.568	01	Improvement	Offutt Privatize MFH	1, 5
Sep-05	Hill	Hill AFB, UT	1,138	1,018	11.280	05	Improvement	Davis-Monthan, Repair MFH Ph 6	1,138	1,018	1,090	11.656	05	Improvement	Davis-Monthan, Repair MFH Ph 6	1, 5
						01	Improvement	Hill, Privatize MFH					01	Improvement	Hill, Privatize MFH	
Sep-05	Dover	Dover AFB, DE	1,488	980	12.425	05	Improvement	Fairchild AFB - Privatize MFH	1,488	980	980	12.278	05	Improvement	Fairchild AFB - Privatize MFH	1, 5
						04	Construction	Dover, Repl 112 MFH Ph 3					04	Construction	Dover, Repl 112 MFH Ph 3	
Jan-06	Scott	Scott AFB, IL	1,430	1,593	0.000	N/A	N/A	N/A	1,430	1,593	1,593	0.000	N/A	N/A	N/A	1, 5
May-06	Nellis	Nellis AFB, NV	1,278	1,178	1.827	05	Improvement	Holloman - Privatize MFH	1,278	1,178	1,178	1.827	05	Improvement	Holloman - Privatize MFH	1, 5

**DEPARTMENT OF THE AIR FORCE
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Privatization Date ¹	MHPI Project Name ²	Installation/State ³	Approved by OSD & OMB ⁴						Actual/Current ⁵						MHPI Authorities ¹³	
			No. Units Conveyed ⁵	No. End State Units ⁶	Funding Source ⁶				No. Units Conveyed ⁹	End State Units ¹⁰	Total No. Units in Current Inventory ¹¹	Funding Source ¹²				
					Amount (\$M) ^{7a}	Budget Year(s) ^{7b}	Type of Funds ^{7c}	Source Project Name ^{7d}				Amount (\$M) ¹²	Budget Year(s) ¹²	Type of Funds ¹²		Source Project Name ¹²
Sep-06	McGuire	McGuire AFB/Ft. Dix, NJ	2,364	2,083	7.569	02	Improvement	McGuire Privatize MFH	2,364	2,084	2,212	5.270	02	Improvement	McGuire Privatize MFH	1, 5
Feb-07	AETC Group I	Altus AFB, OK	883	530	6.244	04	Improvement	Sheppard Privatize 1,288 MFH	883	530	530	6.244	04	Improvement	Sheppard Privatize 1,288 MFH	1, 5
		Luke AFB, AZ	690	550					690	550	550					
		Sheppard AFB, TX	1,167	714					1,167	714	714					
		Tyndall AFB, FL	848	813					848	593	97					
		AETC Group I Total:	3,588	2,607					3,588	2,387	1,891					
May-07	USAFA	US Air Force Academy, CO	1,208	427	2.219	06	Improvement	AF Academy Privatize 445 Units	1,207	425	669	2.219	06	Improvement	AF Academy Privatize 445 Units	1, 5
Jul-07	ACC Group II	Davis-Monthan AFB, AZ	1,256	929	27.922	05	Construction	Davis-Monthan AFB - Replace FH Ph 6	1,256	961	1,174	27.922	05	Construction	Davis-Monthan AFB - Replace FH Ph 6	1, 5
		Holloman AFB, NM	1,009	909					929	923	1,065					
		ACC Group II Total:	2,265	1,838					2,185	1,884	2,239					
Aug-07	Hickam II	Hickam AFB, HI (Ph II)	1,303	1,118	0.000	N/A	N/A	N/A	1,303	1,118	1,139	0.000	N/A	N/A	N/A	5
Sep-07	Tri-Group	Los Angeles AFB, CA	617	572	19.950	06	Improvement	Fort MacArthur - Improve 188 Units	617	613	617	19.945	06	Improvement	Fort MacArthur - Improve 188 Units	3, 5
		Peterson AFB, CO	493	723					493	669	669					
		Schriever AFB, CO	0	269					0	242	242					
		Tri-Group Total:	1,110	1,564					1,110	1,524	1,528					
Sep-07	BLB			15.300	06	Improvement	Bolling, Improve 24 Units				71.359	16	Improvement	Kadena AB, Misawa AB and Yokota AB - Construction Improvement Projects	1, 5	
		Barksdale AFB, LA	729					1,090	723	990						1,090
		Joint Base Anacostia-Bolling (Bolling), MD	1,343					669	1,343	772						850
		Joint Base Langley-Eustis (Langley), VA	1,496					1,430	1,496	1,430						1,430
		BLB Total:	3,568					3,189	3,562	3,192						3,370
Oct-07	Robins II	Robins AFB, GA (Ph II)	563	207	10.600	05	Improvement	FY 05 Robins, Improve Family Housing	558	207	254	10.600	05	Improvement	FY 05 Robins, Improve Family Housing	3, 5

**DEPARTMENT OF THE AIR FORCE
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Privatization Date ¹	MHPI Project Name ²	Installation/State ³	Approved by OSD & OMB ⁴						Actual/Current ⁵					MHPI Authorities ¹³		
			No. Units Conveyed ⁵	No. End State Units ⁵	Funding Source ⁶				No. Units Conveyed ⁹	End State Units ¹⁰	Total No. Units in Current Inventory ¹¹	Funding Source ¹²				
					Amount (\$M) ^{7a}	Budget Year(s) ^{7b}	Type of Funds ^{7c}	Source Project Name ^{7d}				Amount (\$M) ¹²	Budget Year(s) ¹²		Type of Funds ¹²	Source Project Name ¹²
Oct-07	AETC Group II	Columbus AFB, MS	518	453	59.000	06	Improvement	Andrews-Improve 178 Units	517	453	453	59.000	06	Improvement	Andrews-Improve 178 Units	3, 5
		Goodfellow AFB, TX	98	241		05	Improvement	Randolph, Construct MFH Ph 1	98	241	241		05	Improvement	Randolph, Construct MFH Ph 1	
		Laughlin AFB, TX	534	516		05	Construction	Davis-Monthan, Repair MFH Ph 6	534	451	451		05	Construction	Davis-Monthan, Repair MFH Ph 6	
		Maxwell AFB, AL	729	501		03	Construction	Hurlburt, 134 MFH Ph 2A	723	501	513		03	Construction	Hurlburt, 134 MFH Ph 2A	
		JBSA-Randolph, TX	397	317		03	Improvement	Eglin - Hurlburt 213 MFH Improvement	397	317	317		03	Improvement	Eglin - Hurlburt 213 MFH Improvement	
		Vance AFB, OK	230	229					230	242	242					
		AETC Group II Total:	2,506	2,257					2,499	2,205	2,217					
Nov-07	Vandenberg	Vandenberg AFB, CA	1,336	867	0.000	N/A	N/A	N/A	1,336	867	999	0.000	N/A	N/A	N/A	5
Nov-07	AMC East	Andrews AFB, MD	1,480	887	0.000	N/A	N/A	N/A	1,466	933	1,113	0.000	N/A	N/A	N/A	3, 5
		MacDill AFB, FL	752	571					752	572	572					
		AMC East Total:	2,232	1,458					2,218	1,505	1,685					
Jul-08	AMC West	Fairchild AFB, WA	1,055	641	28.190	04	Construction	Tinker, Privatize 730 MFH	1,055	641	641	28.190	04	Construction	Tinker, Privatize 730 MFH	1, 5
		Tinker AFB, OK	694	660		04	Improvement	Sheppard, Privatize 1,288 Units	694	660	660		04	Improvement	Sheppard, Privatize 1,288 Units	
		Travis AFB, CA	2,187	1,134				FHIF Funds	1,094	1,134	1,273				FHIF Funds	
		AMC West Total:	3,936	2,435		2,843	2,435	2,574								
Nov-08	Falcon Group	Hanscom AFB, MA	726	746	15.723	02	Improvement	Hickam - Privatize MFH	726	731	731	15.723	02	Improvement	Hickam - Privatize MFH	1, 5
		Little Rock AFB, AR	1,295	999		01	Improvement	Moody MFH Privatization	1,295	991	991		01	Improvement	Moody MFH Privatization	
		Moody AFB, GA	303	256		01	Construction	Travis - Replace 64 Units	303	287	287		01	Construction	Travis - Replace 64 Units	
		Patrick AFB, FL	991	616		00	Improvement	Little Rock - Privatize MFH	991	616	616		00	Improvement	Little Rock - Privatize MFH	
		Falcon Group Total:	3,315	2,617		3,315	2,625	2,625								
Dec-08	Lackland II	Lackland AFB, TX (Ph II)	264	465	21.785	05	Improvement	Robins - Improve Family Housing	264	465	613	21.618	05	Improvement	Robins - Improve Family Housing	1, 5
						03	Improvement	Keesler - Replace 117 Ph 1					03	Improvement	Keesler - Replace 117 Ph 1	
						03	Improvement	Eglin - Hurlburt 213 MFH Improve					03	Improvement	Eglin - Hurlburt 213 MFH Improve	
Jun-11	JBER	JB Elmendorf-Richardson	1242	1240	36.800	11	Improvement	Army Funds Transferred	1,242	1,240	1,240	36.798	11	Improvement	Army Funds Transferred	1, 5
Sep-11	Southern Group	Arnold AFB, TN	40	22	23.354	07	Construction	Mountain Home - Replace 457 MFH	40	22	22	23.354	07	Construction	Mountain Home - Replace 457 MFH	1, 5

**DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
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Privatization Date ¹	MHPI Project Name ²	Installation/State ³	Approved by OSD & OMB ⁴				Actual/Current ⁵				MHPI Authorities ¹³					
			No. Units Conveyed ⁵	No. End State Units ⁶	Funding Source ⁶			No. Units Conveyed ⁹	End State Units ¹⁰	Total No. Units in Current Inventory ¹¹		Funding Source ¹²				
					Amount (\$M) ^{7a}	Budget Year(s) ^{7b}	Type of Funds ^{7c}					Source Project Name ^{7d}	Amount (\$M) ¹²	Budget Year(s) ¹²	Type of Funds ¹²	Source Project Name ¹²
		Charleston AFB, SC	478	345					478	345	599					
		Keesler AFB, MS	1,188	1,188					1,188	1,188	1,188					
		Shaw AFB, SC	681	630					679	630	633					
		Southern Group Total:	2,387	2,185					2,385	2,185	2,442					
Mar-12	Western Group	Beale AFB, CA	884	509	20.053	07	Construction	Mountain Home - Replace 457 MFH	683	509	509	20.053	07	Construction	Mountain Home - Replace 457 MFH	1, 5
		F. E. Warren AFB, WY	831	749		05	FHIF	Beale	831	749	749		05	FHIF	Beale	
		Malmstrom AFB, MT	1,412	1,116		04	FHIF	Beale	1,168	1,116	1,116		04	FHIF	Beale	
		Whiteman AFB, MO	920	890		03	FHIF	Beale	920	890	890		03	FHIF	Beale	
		Western Group Total:	4,047	3,264					3,602	3,264	3,264					
Aug-13	Northern Group	Cannon AFB, NM	763	1,038	37.813	09	Improvement	Kadena - Improve 614 MFH (Ph 9)	763	1,038	1,038	37.576	09	Improvement	Kadena - Improve 614 MFH (Ph 9)	1, 2, 5
		Cavalier AFB, ND	14	14				Misawa - Improve 370 MFH (Ph 4)	14	14	14				Misawa - Improve 370 MFH (Ph 4)	
		Ellsworth AFB, SD	283	497					283	497	500					
		Grand Forks AFB, ND	833	547					833	547	547					
		Minot AFB, ND	1,746	1,606					1,746	1,440	1,440					
		Mountain Home AFB, ID	956	844					956	844	844					
		Northern Group Total:	4,595	4,546					4,595	4,380	4,383					
	Continental Group	Edwards AFB, CA	741	741	82.610	09	Improvement	Mountain Home - Replace 457 MFH	741	741	741	80.181	09	Improvement	Mountain Home - Replace 457 MFH	1, 2, 5
Sep-13		Eglin AFB, FL	898	747				Kadena - Improve 614 MFH (Ph 9)	894	747	861				Kadena - Improve 614 MFH (Ph 9)	
		Eielson AFB, AK	934	898				Yokota - Improve 350 MFH (Ph 7)	934	898	898				Yokota - Improve 350 MFH (Ph 7)	
		Hurlburt AFB, FL	380	404				Misawa - Improve 370 MFH (Ph 4)	380	404	429				Misawa - Improve 370 MFH (Ph 4)	
		McConnell AFB, KS	401	364					401	364	381					
		Seymour Johnson, NC	708	708					686	686	686					
		Continental Group Total:	4,062	3,862					4,036	3,840	3,996					
Sep-13	ACC Group III	Dyess AFB, TX (PH II)	674	674	9.617	09	Improvement	Yokota - Improve 350 MFH (Ph 7)	674	674	674	6.315	09	Improvement	Yokota - Improve 350 MFH (Ph 7)	1, 2, 5
		Moody AFB, GA (PH II)	0	184				Misawa - Improve 370 MFH (Ph 4)	0	101	101				Misawa - Improve 370 MFH (Ph 4)	

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MILITARY FAMILY HOUSING
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Privatization Date ¹	MHPI Project Name ²	Installation/State ³	Approved by OSD & OMB ⁴					Actual/Current ⁵					MHPI Authorities ¹³		
			No. Units Conveyed ⁵	No. End State Units ⁶	Funding Source ⁶			No. Units Conveyed ⁹	End State Units ¹⁰	Total No. Units in Current Inventory ¹¹	Funding Source ¹²				
					Amount (\$M) ^{7a}	Budget Year(s) ^{7b}	Type of Funds ^{7c}				Source Project Name ^{7d}	Amount (\$M) ¹²		Budget Year(s) ¹²	Type of Funds ¹²
		ACC Group III Total:	674	858					674	775	775				
Grand Totals ¹⁴			61,883	53,331	617.796				59,534	52,181	54,300	671.896			

**DEPARTMENT OF THE AIR FORCE
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Notes:

- 1 - The date real property is transferred (land and housing units) to private ownership/developer, and when service members become entitled to receive a Basic Allowance for Housing (BAH).
- 2 - Provide the name of the MHPI Project given to the privatization project, including the name given to integrated/grouped projects. The MHPI project name should be consistent with the MHPI project name used in the previously approved OSD/OMB Scoring report and/or subsequent notification to Congress.
- 3 - List the MHPI project location by installation and state, including each installation/state incorporated into the integrated/grouped MHPI project.
- 4 - This section relates the previously-approved OSD/OMB project scope and funding amounts contained in the scoring package and/or subsequent Notification of Funds Transfer letters to Congress.
- 5 - Provide the number of family housing units to be conveyed by installation and state to the Developer, including each installation and state incorporated into the integrated/grouped MHPI project, as previously-approved in the OSD/OMB Scoring report.
- 6 - Provide the end state number of family housing units by installation and state to the Developer, including each installation/state incorporated into the integrated/grouped MHPI project, as previously-approved in the OSD/OMB Scoring report.
- 7 - Provide all of the funding source information for the MHPI project as reflected in the previously-approved OSD/OMB report and consistent with the project summary details accompanying the Notification of Transfer letter to Congress, such as: a. The amount of funds to be used for the Government's cost of the project (i.e., equity contribution, credit subsidy costs, differential lease payments, etc.). b. The fiscal year(s) of the funding sources to be used to cover the Government's cost of the MHPI project. c. The type of funds (e.g., FH New Construction, FH Construction Improvements, FH Improvement Funds) to be used to cover the Government's cost of the MHPI project. d. The project(s) that are used to source the Government's cost of the privatization project.
- 8 - This section relates to the Military Departments' actual and/or current plan, which might or might not be consistent with the details contained in the previously-approved OSD/OMB Scoring report and project summary to Congress for the MHPI project due to extenuating circumstances.
- 9 - Provide the actual and/or revised planned number of family housing units conveyed to the Developer by installation and state, including each installation/state incorporated into the integrated/grouped MHPI project.
- 10 - Provide the actual and/or revised, planned number of family housing end state units by installation and state, including each installation/state incorporated into the integrated/grouped MHPI project. Comments to 08/13/20 reporting: AETC Group 1 (cell K34) Approved end state rebuild at Tyndall after Hurricane Michael recovery changed from 813 to 593 units. Updated 30Mar2022: BLB: (Cells K46 and K47) Per the terms of the approved restructure, 100 "End State" units were "swapped" from Barksdale to Bolling effectively reducing the unit count at Barksdale to 990 from 1090 (cell K46) and increasing the unit count at Bolling from 672 to 772 (cell K47) with an additional 43 excess units online along with the proposal to bring an additional 21 units back on line in 2022. There are 14 other units being used as Maintenance storage facilities and will continue being used as such. The DL modification cost is noted in "12" below.
- 11 - Provide the total number of privatized family housing units in the inventory for each MHPI project by installation/state, including each installation/state incorporated into the integrated/grouped MHPI project, regardless if they are currently occupied or not. Kirtland increased by 1 unit due to one unit used as office/storage not accounted for on previous FH-6; ACC II-Holloman decreased by 10 over previous FH-6 which erroneously included ten units demolished in previous years; Hickam increased by 6 units at Bellows Air Force Station and 1 model unit not counted in previous FH-6; Tri-Group-Los Angeles increased by 4 for a quadplex not part of project end state but renting two units and using the other two units for storage; AMC East-Andrews decreased by 28 units erroneously counted that had been demolished in previous years; Northern Group change due to Initial Development Period (IDP) progress; Continental Group-Eglin change due to IDP progress; Continental Group-Hurlburt change due to IDP progress; Continental Group-McConnell change due to IDP progress. Comments to 08/13/20 reporting: AETC Group 1 (cell K34) Approved end state rebuild at Tyndall after Hurricane Michael recovery changed from 813 to 593 units and (cell L34) 52 units have been restored and are online for occupancy as of 31 Jul. AMC East (Cell L59) 933 was the end state; however, 2 of the Madison burn units were deleted because they were not rebuilt. Northern Group: (cell L87) 3 NDSU Units were a part of Hunt's project back in the 90s. They were not part of the inventory until 2016. Wing leadership was living in those homes and didn't want them to be torn down, so Hunt transferred them to BBC and BBC renovated them and includes them in the inventory now. The 3 units are SOQ's but are classified as NDSU's because they were transferred from 801 housing. Updates as of 08/3/2021: Hill (cell L23) total no. of units in current inventory changed from 1082 to 1090 (increased by 8 units) with 10 new units built and 2 units demolished in 2017. AETC Group 1 Tyndall AFB (cell L34) total no. units in inventory changed from 52 to 97 and (cell L35) project total changed from 1846 units to 1891 (increased by 45 units). As of 31 Dec 20, total 97 units have been rebuilt. Updated 30 Mar 2022: Robins AFB, GA (Ph I) End State Units decreased by 670 (cells E6 and K6) and Total No. Units in Current Inventory decreased by 670 (cell L6) upon divestiture from DAF MHPI portfolio on 31 Oct 2021. The DL modification is noted in "12" below. Northern Group-Minot End State Units (cell K90 and Total No. Units in Current Inventory (cell L90) changed from 1,606 to 1,440 - 166 NDSUs demolished.
- 12 - Provide all the "actual and/or current" funding sources used to fund the MHPI project, which might or might not be consistent with the details contained in the previous-approved OSD/OMB Scoring report and project summary (i.e., project amount, budget year of funds, source project, appropriation) to Congress for the MHPI project due to extenuating circumstances. If possible and/or available, please provide the requested funding information by installation/state. Change to scoring reported as actual for Wright Patterson as a result of actual scoring found in historical records. Updated 30 Mar 22: (1) Robins AFB, GA (ph 1) was divested from DAF MHPI portfolio on 31 Oct 2021. The DL modification cost was \$4.364 million. (2) BLB Group Loan Modification occurred in FY 2020. The modification cost was \$56.059 million.
- 13 - Provide the applicable MHPI authorities in subchapter IV of Chapter 169 in title 10 U.S.C. was used and/or proposed to be used for the privatization project. Designators are as follows:

1 = 10 USC 2873 - Government Direct Loans 2 = 10 USC 2873 - Loan Guarantees 3 = 10 USC 2875 - Investments, such as DoD Equity Contributions in non-governmental entities 4 = 10 USC 2877 - Differential Lease Payments
5 = 10 USC 2878 - Conveyance or Lease of Existing Property and Facilities 14 - Totals of number of units conveyed, number of end state units, and funding amounts.

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FOREIGN CURRENCY EXCHANGE DATA (PB-18)
(\$ in Thousands)

MFH O&M		FY 2022		FY 2023		FY 2024	
Country	Local Currency	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion
Denmark	Krone	6.4823		6.9802		7.2883	
European Comm	Euro	0.8703	\$ 54,553	0.9381	\$ 62,607	0.9798	\$ 60,580
Iceland	Krona	138.5288		131.3927		142.4565	
Japan	Yen	106.4531	\$ 111,906	127.7677	\$ 109,139	139.1635	\$ 131,216
Norway	Krone	9.3841	\$ -	9.3864	\$ -	10.0785	\$ -
Singapore	Dollar	1.3826	\$ -	1.3750	\$ -	1.3833	\$ -
South Korea	Won	1190.9277	\$ 17,682	1259.1031	\$ 16,167	1343.5392	\$ 22,040
Turkey	Lira	7.2233	\$ -	15.7532	\$ -	18.4846	\$ -
United Kingdom	Pound	0.7843	\$ 32,098	0.7922	\$ 31,177	0.8502	\$ 37,375
Total			\$ 216,239		\$ 219,090		\$ 251,212

MFH Construction		FY 2022		FY 2023		FY 2024	
Country	Local Currency	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion
Denmark	Krone	6.4823		6.9802		7.2883	
European Comm	Euro	0.8703	\$ -	0.9381	\$ -	0.9798	\$ -
Iceland	Krona	138.5288		131.3927		142.4565	
Japan	Yen	106.4531	\$ 49,258	127.7677	\$ 3,800	139.1635	\$ -
Norway	Krone	9.3841	\$ -	9.3864	\$ -	10.0785	\$ -
Singapore	Dollar	1.3826	\$ -	1.3750	\$ -	1.3833	\$ -
South Korea	Won	1190.9277	\$ -	1259.1031	\$ -	1343.5392	\$ -
Turkey	Lira	7.2233	\$ -	15.7532	\$ -	18.4846	\$ -
United Kingdom	Pound	0.7843	\$ -	0.7922	\$ -	0.8502	\$ -
Total			\$ 49,258		\$ 3,800		\$ -