



Department of the Air Force

Military Construction and Family Housing Program

**Fiscal Year (FY) 2003
Budget Submission**

**Justification Data Submitted to Congress
February 2002**

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION VANDENBERG AIR FORCE BASE. CALIFORNIA		4. PROJECT TITLE INSTALL STORMWATER DRAINAGE		
5. PROGRAM ELEMENT 35856	6. CATEGORY CODE 871-183	7. PROJECT NUMBER XUMU033003	8. PROJECT COST (\$000) 3.100	
9 COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
INSTALL STORMWATER DRAINAGE	LS			1.82:
(2)INSTALL STORMWATER DRAINAGE	LM	1.590	1.146	(1.82;
SUPPORTING FACILITIES				94(
SITE PREPARATION	LS			(59(
ENVIRONMENTAL MITIGATION/RESTORATION	LS			(35(
SUBTOTAL				2.762
CONTINGENCY (5.0 %)				13E
TOTAL CONTRACT COST				2.90C
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				165
TOTAL REQUEST				3.066
TOTAL REQUEST (ROUNDED)				3,100
10. Description of Proposed Construction Install underground reinforced concrete pipe (RCP) storm drain system. Install lateral connectron lines to connect culverts al the landfill perimeter Plug and abandon in place existing 36' corrugated metal pipe (CMP) storm drain Provide all appurtenances for a complete and usable structure. Biological and cultural mitigation during construction will be required				
11. REQUIREMENT, 1.590 LS ADEQUATE LS SUBSTANDARD LS				
<u>PROJECT:</u> Install Stormwater Dratnage (Current Mission)				
<u>REQUIREMENT:</u> This is a Level I environmental compliance project The Vandenberg AFB landfill needs a new stormwater drainage system to divert stormwater runoff away from the site and avoid contact with buried waste. This drainage system will significantly reduce the generation of excess leachate (water that has been in contact wrth waste) and reduce erosion of the landfill surface. which produces elevated levels of total suspended solids (TSS). The Intended result will be the minimization of contamination to downstream ecosystems (river, wetland, and Pacific Ocean) Installation of this new stormwater drainage system is required to regain compliance with water quality standards of the Clean Waler Act				
<u>CURRENT SITUATION.</u> The Vandenberg AFB landfill is a permitted Class III waste management facility. operating pursuant to Solid Waste Facility Permit No 42-AA-0012 and Waste Discharge Requirements Order No. 34-26 Issued by the California Regional Water Quality Control Board The landfill is located in Oak Canyon in the main base cantonment area, which eventually flows into the Santa Ynez River and Lagoon to the Pacific Ocean. The landfill covers approximately 172 acres and has been in operation since World War II. Life expectancy of the landfill is approximately 80 years. Stormwater, originating off-site, is naturally channeled to the landfill This gives rise to two non-compliant environmental issues. Stormwater that travels across the landfill footprint erodes the surface, picking up contaminants, and is discharged downstream Currently, this discharge exceeds the total suspended solids (TSS) standards at its outfall, as permitted under the National Pollution Discharge Elimination system. Excess TSS subjects the base to regulatory enforcement action The other non-compliant condition is generation of excessive leachate, which is produced when stormwater travels across the landfill and percolates through the buried waste. This leachate produces dissolved and finely suspended matter and microbial waste products toxic to sensitive ecosystems. Although an existing drainage pipe runs through part of the landfill, it is dilapidated and allows additional stormwater to infiltrate the waste. During recent inspections, the Regional Water Quality Control Board has expressed concerns with both conditions They are expected to issue a Notice of Violation, subjecting the base to fines and penalties until compliance is achieved				
<u>IMPACT IF NOT PROVIDED:</u>				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION VANDENBERG AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE INSTALL STORMWATER DRAINAGE
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5. PROGRAM ELEMENT 35856	6. CATEGORY CODE 871-183	7. PROJECT NUMBER XUMU033003	8. PROJECT COST (\$000) 3.100
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~~IMPACT NOT PROVIDED~~ During periods of heavy storms, contaminated stormwater leaving the landfill will overwhelm the existing inadequate storm drainage system. The contaminated water threatens the quality of water feeding several ecosystems downstream, including the Santa Ynez River, the Santa Ynez Lagoon (wetland), and the coastal region of the Pacific Ocean. If the contaminated stormwater and leachate is not controlled and brought back into compliance with water quality standards, then the Regional Water Quality Control Board will issue a Notice of Violation and fines.

ADDITIONAL: A draft Environmental Assessment for Landfill Drainage Improvements was prepared on June 16, 2000. Base Civil Engineer: Col Robert D. Kopp. (805) 606-8232. Install Stormwater Drainage: 1,590 LM = 5,216 LF. Design Build - Design Build Cost (4% of Subtotal Cost). \$1 10,000

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.

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VANDENBERG AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE INSTALLSTORMWATERDRAINAGE		5. PROJECT NUMBER XUMU033003
<p>12. SUPPLEMENTAL DATA: Design Build</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitrve Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) Design Allowance 83</p> <p>(4) Construction Contract Award Date 02 Oct</p> <p>(5) Construction Start 02 Dec</p> <p>(6) Construction Completion 03 Sep</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p>		

1. COMPONENT AIR FORCE		FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION VANDENBERG AIR FORCE BASE, CALIFORNIA			4. PROJECT TITLE UPGRADE WATER DISTRIBUTION SYSTEM, PHASE 2			
5. PROGRAM ELEMENT 35856		6. CATEGORY CODE 841-161	7. PROJECT NUMBER XUMU003005A		8. PROJECT COST (\$000) 7.400	
9 COST ESTIMATES						
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
UPGRADE WATER DISTRIBUTION SYSTEM		LM	17.500		2.991	
DISTRIBUTION LINES, 6"- 10'		LM	12.063	129	(1,556)	
SUPPLY LINES, 12"- 20"		LM	5,437	264	(1,435)	
SUPPORTING FACILITIES					3.684	
PAVEMENT		LS			(797)	
SITE RESTORATION		LS			(506)	
VALVES		EA	250	4,321	(1,080)	
FIRE HYDRANTS		EA	182	5.604	(1,020)	
DEMOLITION		LS			(281)	
SUBTOTAL					6,676	
CONTINGENCY (5.0 %)					334	
TOTAL CONTRACT COST					7,009	
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)					400	
TOTAL REQUEST					7,409	
TOTAL REQUEST (ROUNDED)					7,400	
10. Description of Proposed Construction: Upgrade water supply and distribution lines in the main cantonment area of Vandenberg Air Force Base. Includes all necessary pipelines, valves, backflow devices, blow-off and air release valves, fire hydrants, cathodic protection, appurtenances, and associated road repairs. Abandon existing system in place as necessary.						
11. REQUIREMENT 28.640 LM ADEQUATE: 11,140 LM SUBSTANDARD: 17.500 LM						
<u>PROJECT</u> Upgrade Water Distribution System, Phase 2 (Current Mission)						
<u>REQUIREMENT:</u> This is a Level 1 Environmental compliance project Vandenberg AFB does not meet California Code of Regulation (CCR) Title 22, Section 64426 of California's safe drinking water act. Title 22 mandates that the maximum contaminant level can not be more than one positive sample per every 40 samples in public water systems.						
<u>CURRENT SITUATION:</u> The water distribution system in the main cantonment area of the base was originally constructed in 1943. Since then, over 80 percent of the WWII facilities have been demolished, but the water system serving these sites remains largely active but unused causing stagnation. The network of randomly capped, abandoned and underutilized water supply lines provide recesses within the system where drinking water stagnates. This stagnation leads to loss of disinfectant residual. Lack of disinfectant has led to bacteria growth exceeding the state bacteriological standard. Degradation of chlorine disinfectant during stagnation releases nutrients that certain types of bacteria thrive on, increasing coliform population and violating CCR Title 22. This scenario was realized during multiple line breaks in 1996 and 1997 resulting in positive bacteriological samples that led to a Notice of Violation (NOV) in 1997.						
<u>IMPACT IF NOT PROVIDED:</u> Stagnation in the water system will continue leading to disinfectant residual degradation in violation of California Health and Safety Code and the 30 Space Wing Water Quality Management Plan 32-1067. Outbreaks of bacteria will lead to public "do not drink" notifications and future NOV's due to violations of CCR Title 22. These outbreaks could result in penalties or fines from an NOV and adverse impacts.						

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3. INSTALLATION&ND LOCATION VANDENBERG AIR FORCE BASE, CALIFORNIA		4. PROJECT TITLE UPGRADE WATER DISTRIBUTION SYSTEM, PHASE 2	
5. PROGRAM ELEMENT 35856	6. CATEGORY CODE 841-161	7. PROJECT NUMBER XUMU003005A	8. PROJECT COST (\$000) 7.400

to the health of the base populace.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Handbook 32-1084, 'Facility Requirements.' All known alternative options were considered during the development of this project. No other option could meet environmental and mission requirements; therefore, no economic analysis was needed or **performed**. A certificate of exception has been prepared. This is the second and final phase of project to **upgrade** water distribution system to correct Level 1 environmental **requirements** within the cantonment area. Base Civil Engineer: Col Robert D. Kopp, (805) **606-6855**. Upgrade Water Distribution System: 17.500 LM = 57,414 LF.

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.

1. COMPONENT		FY 2003 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE		(computer generated)	
3. INSTALLATION AND LOCATION			
VANDENBERG AIR FORCE-BASE, CALIFORNIA			
4. PROJECT TITLE		5. PROJECT NUMBER	
JPGRAD WATER DISTRIBUTION SYSTEM, PHASE 2		XUMU003005A	
12: SUPPLEMENTAL DATA: Design, Bid, Build			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			20-APR-01
(b) Parametric Cost Estimates used to develop costs			YES
(c) Percent Complete as of Jan 02			15 %
(d) Date 35% Designed.			10-SEP-01
(e) Date Design Complete			08-AUG-02
(f) Energy Study/Life-Cycle analysts was/will be performed			NO
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or(d) + (e): (\$000)			
(a) Production of Plans and Specifications			444
(b) All Other Design Costs			222
(c) Total			666
(d) Contract			600
(e) In-house			66
(4) Construction Contract Award Date			02 Oct
(5) Construction Start			02 Dec
(6) Construction Completion			04 Mar
. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.			
3. Equipment associated with this project will be provided from other appropriations: N/A			

1. COMPONENT AIR FORCE		FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)					2. DATE			
3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE, COLORADO			4. COMMAND AIR FORCE SPACE COMMAND			5. AREA CONST COST INDEX 1.03				
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	156	895	730							1,781
b. End FY 2005	140	860	828							1,828
7. INVENTORY DATA \$(000)										
a. Total Acreage: 3.832										
b. Inventory Totals as of: 30 Sep 00 316238										
c. Authorization Not Yet In Inventory 9,455										
d. Authorization Requested In this Program: 17,700										
e. Authorization Included In Following Program: (FY2004) 18,570										
f. Planned in Next Four Program Years: 81,600										
g. Remaining Deficiency: 102,150										
h. Grand Total: 545,713										
8. Projects Requested in this Program: FY2003										
CATEGORY CODE		PROJECT TITLE		SCOPE		COST DESIGN		STAT1JS		
						\$(000)		START		CMP
131-132	Add/Alter SBIRS Mission Control Station		2.705 SM		\$6,900		JAN 01		AUG 02	
610-249	Wing Headquarters/Administrative Facility		4.566 SM		\$10,800		APR 01		SEP 02	
						Total		\$17,700		
9a. Future Projects: Included in the Following Program: (FY2004)										
610-127	Civil Engineer Complex		1.067 SM		\$6,600					
740-672	Community Support Facilities		1.667 SM		\$4,670					
851-147	Upgrade Base Infrastructure Ph III		18.379 SM		57,300					
						Total		\$18,570		
9b. Future Projects: Typically Pbnnd Next Four Years										
124-135	Cons Fuel Center		420.000 GL		\$6,000					
131-111	Communications Center		2,444 SM		\$10,300					
171-476	Outdoor Small Arms Range		605 SM		\$2,600					
174511	Fire Training Facility		1 EA		\$2,500					
214-425	Vehicle Maint Facility		1.612 SM		\$4,600					
442-758	Consolidated Base Warehouse		9,293 SM		\$8,700					
442-758	Logistics Complex/HAZMART		1,230 SM		\$3,500					
610-243	Consolidated Services Fac		3,171 SM		\$5,900					
722-351	Dining Hall		920 SM		\$3,000					
730-441	Education Center		2,005 SM		\$4,000					
730-773	Chapel Center		1,633 SM		\$3,900					
730835	Security Forces Operations Facility		2,390 SM		86,900					
746884	Child Development Center		1,386 SM		\$3,400					
750-172	Athletic Fields		4 EA		\$2,000					
312-223	Upgrade Base Infrastructure. Phase IV		1 LS		\$8,000					
351-147	Perimeter Road		64.126 SM		\$3,300					
352-262	ADF Parking		18.000 SM		83,000					
9c. Real Property Maintenance Backlog This Installation 12										
0. Mission or Major Functions: A space group; a space warning squadron; an operations support squadron; aerospace Data Facility; an Air Force Reserve Command space warning squadron; and an Air National Guard wing										

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3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE, COLORADO	4. COMMAND AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 1.03
with F-16 aircraft		
11. Outstanding pollution and safety (OSHA) deficiencies:		
a. Air pollution		0
b. Water pollution		0
c. Occupational Safety and Health		0
d. Other Environmental		0

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE, COLORADO			4. PROJECT TITLE ADD/ALTER SBIRS MISSION CONTROL STATION	
5. PROGRAM ELEMENT 64441	6. CATEGORY CODE 131-132	7. PROJECT NUMBER CRWU033001	8. PROJECT COST (\$000) 6,900	
9 COST ESTIMATES				
ITEM	U/N	QUANTITY	UNIT COST	COST (\$000)
ADD/ALTER SBIRS MISSION CONTROL STATION	SM	2.705	2.04:	5.53:
ADD TO MISSION CONTROL STATION	SM	1,673	2.735	(4,576
ALTER MISSION CONTROL STATION	SM	1,032	900	(929
ANTITERRORISM FORCE PROTECTION	SM	2.705	10	(27
SUPPORTING FACILITIES				72C
UTILITIES	LS			(32C
PAVEMENTS	LS			(150
SITE IMPROVEMENTS	LS			(150
UNINTERRUPTIBLE POWER SUPPLY SUPPORT	LS			(100
SUBTOTAL				6,252
CONTINGENCY (5.0 %)				313
TOTAL CONTRACT COST				6,564
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				374
TOTAL REQUEST				6.936
TOTAL REQUEST (ROUNDED)				6.900
10 Description of Proposed Construction Single story with concrete foundations/floor slab. Insulated concrete walls, steel frame, and roof Includes computer access flooring, fire detection and suppressron systems, environmental controls, Sensitive Compartmental Information Facility, intrusion detection, lightning protectron, and all other support. Comply with DoD interim minimum force protectron constructron standard Air Conditioning 375 KW				
11. REQUIREMENT: 6,442 SM ADEQUATE. 3.737 SM SUBSTANDARD 1,032 SM <u>PROJECT:</u> Add to and alter Space Based Infrared System (SBIRS) mission control station. (New mission) <u>REQUIREMENT:</u> Provide a secure ground segment facility to house the SBIRS Mission Control Station (MCS) Increment 2 and 3 Increment 2 brings the first of the new SBIRS satellites on line, replacing the aging Defense Support Program (DSP) system. Increment 3 will be the Low Earth Orbit (LEO) segment of this system. As SBIRS has been developed, hardware requirements have Increased over the original concept, resulting in the need to enlarge and alter the MCS. The MCS provides central processing functions for tactical and strategic space based early missile warning, battlespace characterization, and technical intelligence gathering requirements. The SBIRS program fuses data from multiple satellite constellations and existing classified ground esources to assess and respond lo ballistic missile threats to North America and tactical threats around the world. Comply with DoD interim minimum force protectron construction standard <u>CURRENT SITUATION:</u> The DSP has for many years provided strategic early warning and assessment in defense of North America. The system uses 1970's technology that is outdated and ineffective for supporting most cold-war tactical warning. In addition, the system uses equipment that is both expensive to repair and is apidly becoming unsupportable. SBIRS is consolidating the DSP functional capability at the MCS and allowing closure of costly overseas ground stations In addition, SBIRS will correlate data from other satellite and ground sources to provide multi-layered, composite ballistic missile warning and battlespace characterization vital to evaluating accurate threat assessment				

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3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE, COLORADO		4. PROJECT TITLE ADD/ALTER SBIRS MISSION CONTROL STATION	
5. PROGRAM ELEMENT 64441	6. CATEGORY CODE 131-132	7. PROJECT NUMBER CRWU033001	8. PROJECT COST (\$000) 6,900
<p>IMPACT IF NOT PROVIDED: Without this project, increments 2 and 3 of this system cannot be implemented. Failure to construct this addition and support the SBIRS program will result in 1) continued reliance on an outdated DSP system, 2) compromised ability to support the warfighter's theater warning requirements, and 3) limited ability to characterize space oriented vehicles/events and intelligence gathering. An April 1999 US Space Command SBIRS General Officer's Steering Group validated the need for this project.</p> <p>ADDITIONAL: There is no criteria/scope for this project in Air Force Handbook 32-1084, "Facility Requirements". Space requirements are based on concept proposals and have been validated by the user. A preliminary analysis of reasonable options for accomplishing this project to include status quo and new construction was completed. It indicates there is only one option that will meet operational requirements because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: Lt Col William Valenti (719) 556-7631. Add to Mission Control Station: 1,673 SM = 18,001 SF. Alter Mission Control Station: 1,032 SM = 11,104 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 requirement</p>			

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3. INSTALLATION AND LOCATION																												
BUCKLEY AIR FORCE BASE, COLORADO																												
1. PROJECT TITLE ADD/ALTERS BIRS MISSION CONTROL STATION	5. PROJECT NUMBER CRWU033001																											
<p>12. SUPPLEMENTAL DATA: Design, Bid, Build</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Date Design Started</td> <td style="text-align: right;">15-JAN-01</td> </tr> <tr> <td style="padding-left: 20px;">(b) Parametric Cost Estimates used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">(c) Percent Complete as of Jan 02</td> <td style="text-align: right;">15 %</td> </tr> <tr> <td style="padding-left: 20px;">(d) Date 35% Designed.</td> <td style="text-align: right;">20-SEP-01</td> </tr> <tr> <td style="padding-left: 20px;">(e) Date Design Complete</td> <td style="text-align: right;">20-AUG-02</td> </tr> <tr> <td style="padding-left: 20px;">(f) Energy Study/Life-Cycle analysts was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Standard or Definitive Design -</td> <td style="text-align: right;">NO</td> </tr> <tr> <td style="padding-left: 20px;">(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" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Production of Plans and Specifications</td> <td style="text-align: right;">414</td> </tr> <tr> <td style="padding-left: 20px;">(b) All Other Design Costs</td> <td style="text-align: right;">207</td> </tr> <tr> <td style="padding-left: 20px;">(c) Total</td> <td style="text-align: right;">621</td> </tr> <tr> <td style="padding-left: 20px;">(d) Contract</td> <td style="text-align: right;">514</td> </tr> <tr> <td style="padding-left: 20px;">(e) In-house</td> <td style="text-align: right;">107</td> </tr> </table> <p>(4) Construction Contract Award Date 02 Oct</p> <p>(5) Construction Start 02 Dec</p> <p>(6) Construction Completion 04 Mar</p> <p>. indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>g. Equipment associated with this project will be provided from other appropriations: N/A</p>			(a) Date Design Started	15-JAN-01	(b) Parametric Cost Estimates used to develop costs	YES	(c) Percent Complete as of Jan 02	15 %	(d) Date 35% Designed.	20-SEP-01	(e) Date Design Complete	20-AUG-02	(f) Energy Study/Life-Cycle analysts was/will be performed	YES	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	414	(b) All Other Design Costs	207	(c) Total	621	(d) Contract	514	(e) In-house	107
(a) Date Design Started	15-JAN-01																											
(b) Parametric Cost Estimates used to develop costs	YES																											
(c) Percent Complete as of Jan 02	15 %																											
(d) Date 35% Designed.	20-SEP-01																											
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3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE, COLORADO			4. PROJECT TITLE WING HEADQUARTERS/ADMINISTRATIVE FACILITY		
5. PROGRAM ELEMENT 35996	6. CATEGORY CODE 61 O-249	7. PROJECT NUMBER CRWU033002	8. PROJECT COST (\$000) 10.800		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
WING HEADQUARTERS FACILITY		SM	4,560		8,482
WING HEADQUARTERS/ADMINISTRATION FACILITY		SM	4,560	1,843	(8,404)
ANTITERRORISM/FORCE PROTECTION		SM	4,560	18	(82)
SUPPORTING FACILITIES					1,334
UTILITIES		LS			(161)
PAVEMENTS		LS			(203)
SITE IMPROVEMENTS		LS			(837)
ELEVATOR		EA	1	100.000	(100)
COMMUNICATIONS SUPPORT		LS			(31)
SUBTOTAL					9,818
CONTINGENCY (5.0 %)					491
TOTAL CONTRACT COST					10.309
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)					588
TOTAL REQUEST					10,897
TOTAL REQUEST (ROUNDED)					10,800
<p>10. Description of Proposed Constructon: Construct two story structure with retnforced concrete foundation and floor slab, masonry walls, structural steel frame and a standing seam metal roof. Include utilities, parking, road access, site preparation, backup generator, pre-wiring for voice and local area networks, and low-level antiterrorism/force protection measures.</p> <p>Air Conditioning: 383 KW</p>					
<p>11. REQUIREMENT: 4,746 SM ADEQUATE: 186 SM SUBSTANDARD: SM</p> <p>PROJECT: Construct an Wing headquarters/administration facility. (New Mission)</p> <p>REQUIREMENT: The Secretary of the Air Force and the Chief of Staff of the Air Force designated Air Force Space Command as installation host at Buckley AFB effective 1 October 2000. An active duty Air Base Wing will be stood-up to manage the diverse military activities at Buckley AFB and the greater Denver area. An adequate consolidated wing headquarters/administration facility is required to house wing staff functions to include a Command Post, SCIF, Intelligence, Comptroller, Plans, Personnel, Public Affairs, History, Safety, Legal, and Inspector General. Consolidated functions include Staff Judge Advocate with courtroom, law library, and conference rooms.</p> <p>CURRENT SITUATION: Additional manpower will be required to stand up the Air Base Wing at Buckley. An independent wing was activated in October 2001 and designated the 460th Air Base Wing. There are currently no adequate facilities available to support the additional personnel to be assigned. Numerous staff functions are currently dislocated in several buildings on base including temporary modular buildings. There are no proper facilities for a courtroom, law library, Command Post, and SCIF for Intelligence.</p> <p>IMPACT IF NOT PROVIDED: The new Air Base Wing would have no integrated, on-base presence at Buckley AFB. To accommodate mission essential personnel on base, other personnel would need to be located in additional modular facilities or placed in off-base, leased facilities. The Air Base Wing would not be able to communicate or coordinate effectively in dispersed locations. There would be an increase in operations and</p>					

1. COMPONENT		FY 2003 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
AIR FORCE		(computer generated)			
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
BUCKLEY AIR FORCE BASE, COLORADO			WING HEADQUARTERS/ADMINISTRATIVE FACILITY		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)		
35996	61 O-249	CRWU033002	10.800		
maintenance expenditures due to additional leased facility costs and transportation costs for operating in an inefficient manner.					
<p><u>ADDITIONAL:</u> This project meets criteria/scope in AF Handbook 32-1084, 'Facility Requirements.' Additional scope is required for the Law Center as identified in the 'Air Force Base Legal Facilities Design Guide.' A preliminary analysis of reasonable options for accomplishing this project to include status quo, renovation, upgrade/removal, new construction, and lease was completed. It indicates there is only one option that will satisfy statutory requirements and meet operational constraints. Because of this, a full economic analysis was not performed. A Certificate of Waiver has been prepared. Base Civil Engineer: Lt Col William Valenti, 719-556-7631. Wing Headquarters/Admin Facility: 4,560 SM = 49,083 SF.</p>					
<p>JOINT USE CERTIFICATION: Mission requirements, operational Considerations and location are incompatible with use by other components.</p>					

1. COMPONENT AIR FORCE	Ff 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE																										
3. INSTALLATION AND LOCATION																												
BUCKLEY AIR FORCE BASE, COLORADO																												
4. PROJECT TITLE WINGHEADQUARTERS/ADMINISTRATIVE FACILITY	5. PROJECT NUMBER I CRWU033002																											
<p>12. SUPPLEMENTAL DATA: Design, Bid, Build</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Date Design Started</td> <td style="text-align: right;">12-APR-01</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td>(c) Percent Complete as of Jan 02</td> <td style="text-align: right;">15 %</td> </tr> <tr> <td>(d) Date 35% Designed.</td> <td style="text-align: right;">12-SEP-01</td> </tr> <tr> <td>(e) Date Design Complete</td> <td style="text-align: right;">18-SEP-02</td> </tr> <tr> <td>(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Standard or Definitive Design -</td> <td style="text-align: right;">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" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Production of Plans and Specifications</td> <td style="text-align: right;">648</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td style="text-align: right;">324</td> </tr> <tr> <td>(c) Total</td> <td style="text-align: right;">972</td> </tr> <tr> <td>(d) Contract</td> <td style="text-align: right;">810</td> </tr> <tr> <td>(e) In-house</td> <td style="text-align: right;">162</td> </tr> </table> <p>(4) Constructron Contract Award Date 02 Nov</p> <p>(5) Constructron Stan 03 Jan</p> <p>(6) Constructron Completion 04 Sep</p> <p>. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p>			(a) Date Design Started	12-APR-01	(b) Parametric Cost Estimates used to develop costs	YES	(c) Percent Complete as of Jan 02	15 %	(d) Date 35% Designed.	12-SEP-01	(e) Date Design Complete	18-SEP-02	(f) 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	648	(b) All Other Design Costs	324	(c) Total	972	(d) Contract	810	(e) In-house	162
(a) Date Design Started	12-APR-01																											
(b) Parametric Cost Estimates used to develop costs	YES																											
(c) Percent Complete as of Jan 02	15 %																											
(d) Date 35% Designed.	12-SEP-01																											
(e) Date Design Complete	18-SEP-02																											
(f) Energy Study/Life-Cycle analysis was/will be performed	YES																											
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(e) In-house	162																											

1. COMPONENT **FY 2003 MILITARY CONSTRUCTION PROJECT DATA** 2. DATE
AIR FORCE (computer generated)

3. **INSTALLATION AND LOCATION** CLASSIFIED LOCATION 4. PROJECT TITLE
C-17 VARIOUS FACILITIES (BASE Y)

5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000)
41130 171-212 **AMC039999** 30,569

9. COST ESTIMATES

ITEM	J/M	QUANTITY	UNIT COST	COST (\$000)
C-17 PLIGHTLINE OPERATIONS FACILITIES	LS			17,466
C-17 FLIGHT SIMULATOR	SM	1,380	3,007	(4,150)
AIRCRAFT PARTS STORE	SM	5,575	1,303	(7,264)
AERIAL DELIVERY	SM	3,103	1,892	(5,871)
ANTITERRORISM/FORCE PROTECTION	SM	10,058	18	(181)
SUPPORTING FACILITIES				10,000
UTILITIES	LS			(3,000)
ELECTRICAL	LS			(5,000)
COMMUNICATIONS	LS			(1,000)
PAVEMENTS/SITE IMPROVEMENTS	LS			(1,000)
SUBTOTAL				27,466
CONTINGENCY (5.0 %)				1,373
TOTAL CONTRACT COST				28,839
SUPERVISION, INSPECTION AND OVERHEAD (6.0 %)				1,730
TOTAL REQUEST				30,569
TOTAL REQUEST (ROUNDED)				30,569
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(20,700.0)

10. Description of Proposed Construction: Construction of C-17 simulator facility and aerial delivery. Relocation of aircraft parts store located in footprint of construction. Major upgrade of electrical distribution system and any other work associated with this project. Includes antiterrorism/force protection physical security IAW DoD minimum construction standards.

11. REQUIREMENT: ADEQUATE : SUBSTANDARD:

PROJECT: Constructs new C-17 flight simulator and aerial delivery, relocates facility in the footprint, and upgrades electrical distribution (Nw Mission)

REQUIREMENT: Construction of a flight simulator training facility to support C-17 beddown located at Base Y. An adequate facility, properly sized and configured for a C-17 simulator system and its associated equipment is required. Constructs an aerial delivery to support C-17 aircraft beddown requirements. Relocates aircraft parts store in the footprint of the C-17 beddown. A major electrical distribution system upgrade is required to support facilities beddown.

CURRENT SITUATION: There is not an existing facility that can be retrofitted for the C-17 simulator or the aerial delivery function. C-17 simulators at Altus, Charleston, and McChord are fully utilized and cannot economically support simulator training requirements for the aircrews at Base Y. An aerial delivery function is required to also support the C-17 requirement. The current electrical distribution will not support C-17 facility beddown requirement without electrical upgrade. Parts store located in the footprint of construction must be relocated to accommodate C-17 aircraft beddown construction or beddown cannot be accomplished.

IMPACT IF NOT PROVIDED: The C-17 aircraft delivery schedule will not be supportable at gaining bases. The beddown and safe operation of the C-17 could not be accomplished without providing required flight simulator training and aerial delivery facilities. Emergency training would need to be accomplished at another location,

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE C-17 VARIOUS FACILITIES (BASE Y)
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5. PROGRAM ELEMENT 41130	6. CATEGORY COW 171-212	7. PROJECT NUMBER AMC039999	8. PROJECT COST (\$000) 30,569
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incurring additional TDY costs and a negative impact on aircrew availability due to crews in transit for training. Without the upgrade of the electrical power distribution system, the flight simulator, maintenance hangars and other support facilities will not have reliable end safe power to perform training and maintenance operations. Without relocation of facility in the footprint, beddown cannot take place.

ADDITIONAL: There is no criteria/scope for this project in Part 11 of Military Handbook 1190. 'Facility Planning and Design Guide.' However, this project does not meet the criteria/scope specified in Air Force Handbook 32-1084 'Facility requirements'. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction, leasing) was accomplished. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis will not be performed. A certificate of exception will be prepared. **BASE CIVIL ENGINEER:**

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

1 COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2 DATE
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3. INSTALLATION AND LOCATION
CLASSIFIED LOCATION

4. PROJECT TITLE C-17 VARIOUS FACILITIES (BASE Y)	5 PROJECT NUMBER AMC039999
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12 SUPPLEMENTAL DATA	Design Build
a Estimated Design Data	
(1) Project to be accomplished by design-build procedures	
(2) Basis	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	824
(4) Construction Contract Award Date	02 Dec
(5) Construction Start	03 Feb
(6) Construction Completion	04 Dec
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

b Equipment associated with this project will be provided from other appropriations

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
SIMULATOR EQUIPMENT	3010	2005	15900
FURNITURE	3080	2005	1000
MMHS EQUIPMENT	3080	2005	3000
EQUIPMENT/FURNITURE MOVING	3080	2005	800

1. COMPONENT AIR FORCE		N 2003		MILITARY CONSTRUCTION PROGRAM (computer generated)			2. DATE			
3. INSTALLATION AND LOCATION HURLBURT FIELD, FLORIDA				4. COMMAND AIR FORCE SPECIAL OPERATIONS COMMAND			5. AREA CONST COST INDEX 0.82			
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 01	1,163	5,724	861		23		617	549	73	9,010
b. End FY 2005	1,151	5,443	848		22		617	549	73	8,703
7. INVENTORY DATA \$(000)										
a. Total Acreage		6,634								
b. Inventory Totals as of: 30 Sep 01					274,272					
c. Authorization Not Yet In Inventory.					31,390					
d. Authorization Requested In this Program:					9,000					
e. Authorization Included In Following Program: (FY2004)					0					
f. Planned in Next Four Program Years:					52,005					
g. Remaining Deficiency:					0					
h. Grand Total:					366,667					
8. Projects Requested in this Program: FY2003										
CATEGORY CODE	PROJECT TITLE		SCOPE		COST \$(000)	DESIGN START	STATUS CMP			
721-312	Dormitory (144 RM)		144 RM		\$9,000	APR 01	AUG 02			
Total					\$9,000					
9a. Future Projects: Included in the Following Program: (FY2004) No Projects										
9b. Future Projects: Typically Planned Next Four Years										
130-835	ADAL SF Ops		1.168 SM		\$1,591					
141-454	ST Adv Sk Trng		4.703 SM		\$6,900					
214-425	823 RHS Vehicle Maintenance Facility		3.000 SM		\$5,800					
2 17-742	AFC2TIG Systems/Warrior School Complex		6.950 SM		\$13,890					
610-121	Veh Ops Admin		966 SM		\$1,742					
721-312	Dorm (144RM)		4.752 SM		\$8,700					
730-I 42	Fire Station		1.700 SM		\$5,522					
842-245	Imp Water Sys		3,650 LM		\$3,673					
851-147	Realign Roads		1 LS		\$4,277					
9c. Real Property Maintenance Backloa This Installation										36
10. Mission or Major Functions: Headquarters Air Force Special Operations Command; a special operations wing with AC-130/MC-130/MH-53/MH-60/UH-1 special operations squadrons; Air Force Special Operations School; a special tactics group; Air Force Command and Control Training 8 Innovatton Group; a RED HORSE squadron; and the Air Force Combat Weather Center.										
11. Outstanding pollution and safety (OSHA) deficiencies:										
a. Air pollution					0					
b. Water pollution					0					
c. Occupational Safety and Health					0					
d. Other Environmental					0					

1. COMPONENT AIR FORCE		FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION HURLBURT FIELD, FLORIDA			4. PROJECT TITLE DORMITORY (144 RM)			
5. PROGRAM ELEMENT 27596		6. CATEGORY CODE 721-312	7. PROJECT NUMBER FTEV003013A		8. PROJECT COST (\$000) 9.000	
9. COST ESTIMATES						
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
DORMITORY (144 RM)		RM	144		6.558	
DORMITORY		SM	4.752	1.366	(6,491)	
ANTITERRORISM FORCE PROTECTION		SM	4.752	14	(67)	
SUPPORTING FACILITIES					1,550	
UTILITIES		LS			(650)	
PAVEMENTS		LS			(450)	
SITE IMPROVEMENTS		LS			(350)	
COMMUNICATIONS		LS			(100)	
SUBTOTAL					8.108	
CONTINGENCY (5.0%)					405	
TOTAL CONTRACT COST					8.513	
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)					485	
TOTAL REQUEST					8,998	
TOTAL REQUEST (ROUNDED)					9,000	
10. Description of Proposed Construction: A three-story facility with reinforced concrete foundation and floor slabs. masonry walls and sloping metal roof. Includes room-bath-room modules. kitchens, laundries, storage and lounge areas, utilities, parking and all other supporting facilities. Complies with DoD interim minimum force protection construction standard. Air Conditioning: 360 KW Grade Mix: 144 EI -E4.						
11. REQUIREMENT: 1.719 RM ADEQUATE: 1,128 RM SUBSTANDARD. RM <u>PROJECT:</u> Construct a dormitory. (Current Mission) <u>REQUIREMENT:</u> A major Air Force 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 the increasingly complicated and important jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Complies with DoD interim minimum force protection construction standard. <u>CURRENT SITUATION:</u> The base has insufficient on-base housing to accommodate the unaccompanied enlisted personnel. This project is in accordance with the Air Force Dormitory Master Plan. <u>IMPACT IF NOT PROVIDED:</u> 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. <u>ADDITIONAL:</u> This project meets the criteria/scope specified in the new uniform barracks standard, known as "one-plus-one," established by OSD. All known alternatives were considered during the development of this project. No other option could meet the mission requirements. Therefore, no economic analysis was needed or performed. FY2000 Unaccompanied Housing RPM conducted: \$60K. FY2001 Unaccompanied Housing RPM conducted: \$66K. Future Unaccompanied Housing RPM requirements (estimated): FY 02 (\$70K); FY03 (\$75K);						

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION HURLBURT FIELD, FLORIDA			4. PROJECT TITLE DORMITORY (144 RM)	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 721-312	7. PROJECT NUMBER FTEV003013A	8. PROJECT COST (\$000) 9.000	
<p>FY04 (\$80K). Base Civil Engineer: Lt Col Richard Parker (650) 884-7701. Dormitory: 4,742 SM = 51,132 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 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE																										
3. INSTALLATION AND LOCATION HURLBURT FIELD, FLORIDA																												
4. PROJECT TITLE DORMITORY (144 RM)	5. PROJECT NUMBER FTEV003013A																											
<p>12.: SUPPLEMENTAL DATA: Design, Bid, Build</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Date Design Started</td> <td style="text-align: right;">15-APR-01</td> </tr> <tr> <td style="padding-left: 20px;">(b) Parametric Cost Estimates used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">(c) Percent Complete as of Jan 02</td> <td style="text-align: right;">15 %</td> </tr> <tr> <td style="padding-left: 20px;">(d) Date 35% Designed.</td> <td style="text-align: right;">01 -OCT-01</td> </tr> <tr> <td style="padding-left: 20px;">(e) Date Design Complete</td> <td style="text-align: right;">15-AUG-02</td> </tr> <tr> <td style="padding-left: 20px;">(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Standard or Definitive Design -</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">(b) Where Design Was Most Recently Used -</td> <td style="text-align: right;">HURLBURT</td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Production of Plans and Specifications</td> <td style="text-align: right;">360</td> </tr> <tr> <td style="padding-left: 20px;">(b) All Other Design Costs</td> <td style="text-align: right;">180</td> </tr> <tr> <td style="padding-left: 20px;">(c) Total</td> <td style="text-align: right;">540</td> </tr> <tr> <td style="padding-left: 20px;">(d) Contract</td> <td style="text-align: right;">450</td> </tr> <tr> <td style="padding-left: 20px;">(e) In-house</td> <td style="text-align: right;">90</td> </tr> </table> <p>(4) Construction Contract Award Date 02 Nov</p> <p>(5) Construction Start 03 Jan</p> <p>(6) Construction Completion 04 Jul</p> <p>. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>i. Equipment associated with this project will be provided from other appropriations: N/A</p>			(a) Date Design Started	15-APR-01	(b) Parametric Cost Estimates used to develop costs	YES	(c) Percent Complete as of Jan 02	15 %	(d) Date 35% Designed.	01 -OCT-01	(e) Date Design Complete	15-AUG-02	(f) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design -	YES	(b) Where Design Was Most Recently Used -	HURLBURT	(a) Production of Plans and Specifications	360	(b) All Other Design Costs	180	(c) Total	540	(d) Contract	450	(e) In-house	90
(a) Date Design Started	15-APR-01																											
(b) Parametric Cost Estimates used to develop costs	YES																											
(c) Percent Complete as of Jan 02	15 %																											
(d) Date 35% Designed.	01 -OCT-01																											
(e) Date Design Complete	15-AUG-02																											
(f) Energy Study/Life-Cycle analysis was/will be performed	YES																											
(a) Standard or Definitive Design -	YES																											
(b) Where Design Was Most Recently Used -	HURLBURT																											
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(c) Total	540																											
(d) Contract	450																											
(e) In-house	90																											

1. COMPONENT AIR FORCE	FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)		2. DATE							
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		4. COMMAND AIR COMBAT COMMAND		5. AREA CONST COST INDEX 0.86						
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 01	815	4,769	1,296				51	73	159	7,163
b. End FY 2005	820	4,938	1,265				51	73	159	7,306
7. INVENTORY DATA \$(000)										
a. Total Acreage		22,361								
b. Inventory Totals as of: 30 Sep 01		353,556								
c. Authorization Not Yet In Inventory:		29,357								
d. Authorization Requested In this Program:		10,900								
e. Authorization Included In Following Program: (FY2004)		0								
f. Planned in Next Four Program Years:		45,500								
g. Remaining Deficiency:		109,100								
h. Grand Total:		546415								
3. Projects Requested in this Program: FY2003										
CATEGORY		PROJECT TITLE		SCOPE		COST \$(000)		DESIGN STATUS		STATUS
CODE								START		CMP
721-312		Dormitory (168 RM)		168 RM		\$10,900		TURN		KEY
						Total		\$10,900		
3a. Future Projects: Included in the Following Program: (FY2004) No Projects										
3b. Future Projects: Typically Planned Next Four Years										
113-321		Repair Aircraft Parking Apron		57.916 SM		\$12,000				
171-875		Weapons Load Crew Training Facility		11,427 SM		\$23,500				
721-312		Dormitory (168 RM)		168 RM		\$10,000				
3c. Real Property Maintenance Backlog This Installation 108										
0. Mission or Major Functions: Headquarters Eighth Air Force; a bomb wing with three B-52 squadrons, one of which is responsible for training B-52 combat crews; an Air Force Reserve wing with A-10, AO-10, and B-52 aircraft.										
1. Outstanding pollution and safety (OSHA) deficiencies:										
a. Air pollution		0								
b. Water pollution		0								
c. Occupational Safety and Health		0								
d. Other Environmental		0								

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		4. PROJECT TITLE DORMITORY (168 RM)		
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 721-312	7. PROJECT NUMBER AWUB043000	8. PROJECT COST (\$000) 10.900	
9 COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (168 RM)	RM	168		7.850
DORMITORY	SM	5.544	1.402	(7,773)
ANTITERRORISM FORCE PROTECTION	SM	5.544	14	(78:
SUPPORTING FACILITIES				1.925
UTILITIES	LS			(750)
PAVEMENTS	LS			(500)
SITE IMPROVEMENTS	LS			(300)
COMMUNICATIONS DUCT	LS			(125)
ENVIRONMENTAL ABATEMENT	LS			(250)
SUBTOTAL				9.775
CONTINGENCY (5.0 %)				489
TOTAL CONTRACT COST				10.264
SUPERVISION, INSPECTION & OVERHEAD (6 %)				616
TOTAL REQUEST				10,880
TOTAL REQUEST (ROUNDED)				10.900
10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, Insulated maintenance-free exterior masonry walls, sound attenuation, and sloped roofs. Included lounge areas, laundries, room-bath-kitchen-room modules, storage, exterior site work, communication requirements, fire protection systems, and all supporting facilities. Work includes parking, recreation areas, and demolition of a segment of Douhet Drive Air Conditioning 250 KW Grade Mix 168 EI-E4				
II. REQUIREMENT- 1.396 RM ADEQUATE, 660 RM SUBSTANDARD. 216 RM				
<u>PROJECT</u> Construct a Dormitory (Current Mission)				
<u>REQUIREMENT</u> A major Air Force 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 the increasingly complicated and important jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Complies with DoD interim minimum force protection construction standard.				
<u>CURRENT SITUATION</u> The base has insufficient on-base housing to accommodate the unaccompanied enlisted personnel. This project is in accordance with the Air Force Dormitory Master Plan.				
<u>IMPACT IF NOT PROVIDED</u> - 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.				
<u>ADDITIONAL</u> : This project meets the criteria/scope specified in the new uniform barracks standard, known as "one-plus-one," established by OSD. All known alternatives were considered during the development of this project. No other option could meet the mission requirements. Therefore, no economic analysis was needed or				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		4. PROJECT TITLE DORMITORY (168 RM)	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 721-312	7. PROJECT NUMBER AWUB043000	8. PROJECT COST (\$000) 10.900

performed. FY00 Unaccompanied Housing RPM Conducted: **\$4,892K**; FY01 Unaccompanied Housing RPM Conducted: **\$3,632K**. Future Unaccompanied Housing RPM requirements (estimated): FY02: **\$2,724K**; FY03: **\$2,300K**; FY04: **\$2,500K**. Base Civil Engineer: Lt Col Robert Fant. (318) 456-4856. Dormitory: **5,544 SM = 59,653 SF**. Design Build - Design Build Cost (4% of Subtotal Cost): **\$395,000**.

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

1. COMPONENT AIRFORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE. LOUISIANA		
4. PROJECT TITLE DORMITORY (168 RM)	5. PROJECT NUMBER AWUB043000	
<p>12. SUPPLEMENTAL DATA: Design Build</p> <p>a. Estimated Design Data</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) Design Allowance 296</p> <p>(4) Construction Contract Award Date 02 Oct</p> <p>(5) Construction Start 02 Dec</p> <p>(6) Construction Completion 04 Dec</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p>		

1. COMPONENT AIR FORCE		FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)				2. DATE				
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE, MASSACHUSETTS			4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONST COST INDEX 1.12				
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	off	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 00	644	808	3.610				388	823	81	6.352
b. End FY 2005	833	614	3.572				388	823	81	6.311
7. INVENTORY DATA \$(000)										
a. Total Acreage: 848										
b. Inventory Totals as of: 30 Sep 00 252,483										
c. Authorization Not Yet In Inventory: 36.610										
d. Authorization Requested In this Program: 7.700										
e. Authorization Included In Following Program: (FY2004) 0										
f. Planned in Next Four Program Years: 28.300										
g. Remaining Deficiency: 116.700										
h. Grand Total: 441.793										
8. Projects Requested in this Program: FY2003										
CATEGORY COST DESIGN STATUS										
CODE PROJECT TITLE SCOPE \$(000) START CMP										
740-674 Add To And After Fitness Center 3.645 SM \$7,700 TURN KEY										
Total \$7,700										
9a. Future Projects: Included In the Following Program: (FY2004) No Projects										
9b. Future Projects: Typically Planned Next Four Years										
219-943 Replace BCE Heavy Repair and Grounds Fac 2.210 SM \$3,900										
317-315 Renovate Acquisition Mgt Fac B1 1 MC 5.900 SM \$12,400										
317-315 Renovate Acquisition Mgt Fac B1600 5,623 SM \$12,000										
9c. Real Property Maintenance Backlog This Installation 26										
10. Mission or Major Functions: The Electronic Systems Center provides the latest in command and control and information systems for various weapons platforms including the E-3 AWACS and E-8 Joint STARS: an Air Force Research Laboratory research site location for the space vehicles directorate; an air base wing; a recruiting group; and an aerial port squadron.										
11. Outstanding pollution and safety (OSHA) deficiencies:										
a. Air pollution 0										
b. Water pollution 0										
c. Occupational Safety and Health 0										
d. Other Environmental 0										

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE, MASSACHUSETTS	4. PROJECT TITLE ADD TO AND ALTER FITNESS CENTER
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5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 740-674	7. PROJECT NUMBER MXRD92303 1	8. PROJECT COST (\$000) 7.700
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9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
ADD TO AND ALTER FITNESS CENTER	SM	3.845		5,497
ADDITION	SM	2.486	1.800	(4.475)
ALTERATIONS	SM	1.109	800	(887)
COVERED WALKWAY	SM	250	400	(100)
ANTITERRORISM FORCE PROTECTION	SM	3.845	9	(35)
SUPPORTING FACILITIES				1.160
COMMUNICATIONS SUPPORT	LS			(100)
UTILITIES	LS			(400)
PAVEMENTS	LS			(320)
SITE IMPROVEMENTS/SPECIAL FOUNDATIONS	LS			(200)
ASBESTOSABATEMENT	LS			(140)
SUBTOTAL				6.657
CONTINGENCY (5.0 %)				33.3
TOTAL CONTRACT COST				6.989
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				39.2
TOTAL REQUEST				7,388
TOTAL REQUEST (ROUNDED)				7,700

10. Description of Proposed Construction: Single story addition to the fitness center. Includes a multi-use fitness court, exercise room, locker room, storage area and covered walkway. Also includes modifications to the existing plumbing and HVAC systems, fire alarm systems, and all other necessary support. Complies with DoD Interim minimum force protection construction standard.
Air Conditioning 250 KW

11. REQUIREMENT. 4,798 SM ADEQUATE. 953 SM SUBSTANDARD 1,109 SM
PROJECT: Add to and alter fitness center (Current Mission)
REQUIREMENT: An adequately sized and fully configured fitness center is required to support combat readiness and improve the physical fitness of active duty and reserve military personnel at Hanscom AFB. Adequate sports courts, lockers and fitness areas are required to support the minimum requirements for the more than 3,000 military personnel on base. Complies with DoD interim minimum force protection construction standard.
CURRENT SITUATION: The existing facility is too small to accommodate the customer demand and the program diversity expected by the Air Force community. The existing multi-use fitness court cannot meet simultaneous demands for volleyball, badminton, basketball, aerobics, and indoor running. Scheduling conflicts limit such programs as aerobics, exercise/sports classes and limits league play. These problems are acute at all peak use times, making it impossible to run concurrent aerobics and basketball programs. The Fitness Center is open over 100 hours a week. Customer demand for the services provided by this 40 year old facility is strong. The aerobics program holds 12 classes a week with an average participation of 400 people. Currently, 75 people are on the waiting list for a locker and unit requests for physical fitness activities are repeatedly turned down because of overcrowding. During peak use periods, a 30 minute wait for cardio-vascular equipment is the

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE, MASSACHUSETTS		4. PROJECT TITLE ADD TO AND ALTER FITNESS CENTER	
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 740-674	7. PROJECT NUMBER MXRD92303 1	8. PROJECT COST (\$000) 7,700

standard. Customer demand for this type of equipment far exceeds availability. Due to the lack of space, equipment purchases have been delayed. The center is unable to add **additional** equipment or update existing equipment with modern and larger machines.

IMPACT IF NOT PROVIDED: Military members will be **limited in their** ability to maintain **physical conditioning and fitness**. Morale and mission readiness could be negatively impacted.

ADDITIONAL: This project meets the criteria specified in the USAF **Fitness Facilities Design Guide, October 1999**. All known alternative options were considered **during** the development of this **project**. No other option could meet the **mission** requirements therefore, no **economic** analysis was needed or performed. A request for **waiver** to an economic analysis has been submitted. Base Civil Engineer: Lt Col Thomas J. Schluckebier, (781) 377-3526. Addition: 2,486 SM = 26,749 SF; Alteration: 1,109 SM = 11,933 SF. Design Build - Design Build Cost (446 of Subtotal Cost): \$266,000.

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 equipment.

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HANSKOM AIR FORCE BASE, MASSACHUSETTS		
4. PROJECT TITLE ADD TO AND ALTER FITNESS CENTER	5. PROJECT NUMBER MXRD923031	
<p>12. SUPPLEMENTAL DATA: Design Build</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) Design Allowance 200</p> <p>(4) Constructron Contract Award Date 02 Oct</p> <p>(5) Constructron Start 02 Dec</p> <p>(6) Construction Completion 04 Jun</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p>		

1. COMPONENT AIR FORCE	FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)							2. DATE		
3. INSTALLATION AND LOCATION KEESLER AIR FORCE BASE, MISSISSIPPI				4. COMMAND AIR EDUCATION AND TRAINING COMMAND				5. AREA CONST COST INDEX 0.87		
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	O	F	F	ENL	CIV	OFF	ENL	CIV	OFF	
a. As of 30 Sep 01	860	3.226	2,740	450	2.909		78	1.680	84	12.027
b. End FY 2005	847	2.763	2,739	439	2.819		78	1.680	84	11.449
7. INVENTORY DATA \$(000)										
a. Total Acreage	1.611									
b. Inventory Totals as of: 30 Sep 01	388.669									
c. Authonzatron Not Yet In Inventory:	154.055									
d. Authorization Requested In this Program:	22.000									
e. Authonzatron Included In Following Program: (FY2004)	0									
f. Planned in Next Four Program Years:	30,200									
g. Remaining Deficiency:	247.706									
h. Grand Total:	842.630									
8. Projects Requested in this Program. FY2003										
CATEGORY						COST	DESIGN	STATUS		
CODE	PROJECT TITLE				SCOPE	\$(000)	START	CMP		
721-312	Student Dormitory (200 RM)				200 RM	\$22,000	JUL 01	AUG 02		
						Total	\$22.000			
9a. Future Projects: Included in the Following Program: (FY2004) No Projects										
9b. Future Projects: Typically Planned Next Four Years										
721-312	Dormitory (200 RM)				200 RM	\$18.300				
730-142	Replace Fire / Crash Rescue Station				4.186 SM	\$9,200				
740-884	Child Development Center				1.303 SM	\$2,700				
9c. Real Property Maintenance Backlog This Installation										69
10. Mission or Major Functions: Headquarters Second Air Force; a training wing responsible for communications, electronics, and administrative courses and a C-12/C-21 airlift squadron responsible for aircrew training; an Air Force Materiel Command engineering installation group; an Air Force Reserve airlift wing with one C-130 airlift squadron and one WC-130 weather reconnaissance squadron; and a major Air Force medical center.										
11. Outstanding pollution and safety (OSHA) deficiencies:										
a. Air pollutron										40
b. Water pollution										30
c. Occupational Safety and Health										0
d. Other Environmental										0

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
3. INSTALLATION <u>AND</u> LOCATION KEESLER AIR FORCE BASE, MISSISSIPPI			4. PROJECT TITLE STUDENT DORMITORY (200 RM)	
5. PROGRAM ELEMENT 85796	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MAHG053001	8. PROJECT COST (\$000) 22.000	
9 COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
STUDENT DORMITORY (200 RM)	RM	200		16.032
STUDENT DORMITORY	SM	9,750	1.340	(13.065
TRAINING MANAGER'S OFFICE	SM	162	1.250	(203
SATELLITE SHOPPETTE	SM	1.675	1,554	(2.603
ANTITERRORISM FORCE PROTECTION	SM	1 1.587	14	(162
SUPPORTING FACILITIES				3.651
UTILITIES	LS			(950
PAVEMENTS/SITE IMPROVEMENTS	LS			(1,300
ABESTOS/LEAD BASED PAINT ABATEMENT	LS			(300
FACILITY DEMOLITION	SM	12,948	85	(1,101
SUBTOTAL				19,683
CONTINGENCY (5.0%)				984
TOTAL CONTRACT COST				20.667
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				1.178
TOTAL REQUEST				21.845
TOTAL REQUEST (ROUNDED)				22,000
10. Description of Proposed Construction: Multi-story, CMU block, pile concrete foundation, floor slabs, and metal roof building. Project includes room-bath modules (2 students per room), laundries, training manager's office, fire protection, sitework, pavements, satellite shoppette, and all other supporting facilities. Complies with DoD interim force protection construction standard. Demolishes one existing dorm (12.948 SM). Air Conditioning: 980 KW Grade Mix: 400 EI-E4.				
11. REQUIREMENT: 1,834 RM ADEQUATE: 998 RM SUBSTANDARD: 400 RM				
<u>PROJECT:</u> Construct a Student Dormitory (200 RM). (Current Mission)				
<u>REQUIREMENT:</u> A major Air Force 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 the increasingly complicated and important jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. There is no adequate site available within the "training triangle" area without first demolishing existing tennis courts and satellite shoppette.				
<u>CURRENT SITUATION:</u> The Base has insufficient on-base housing to accommodate the unaccompanied enlisted students. This project is in accordance with the Air Force Dormitory Master Plan.				
<u>IMPACT IF NOT PROVIDED:</u> Adequate living quarters will continue to be unavailable resulting in degradation of morale, productivity, and overall training effectiveness of these students				
<u>ADDITIONAL:</u> This project is being designed to Air Force technical training "pipeline" construction standards. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicates only new construction will meet operational requirements. Because of this, a full				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION KEESLER AIR FORCE BASE, MISSISSIPPI		4. PROJECT TITLE STUDENT DORMITORY (200 RM)	
5. PROGRAM ELEMENT 85796	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MAHG053001	8. PROJECT COST (\$000) 22.000

economic analysis was not **performed**. A certificate of exemption has been prepared. FY 00 Unaccompanied Housing RPM conducted **\$1,695K**; FY 01 Unaccompanied Housing RPM conducted: **\$1,255K**. Future Unaccompanied Housing RPM requirements (estimate): FY02: **\$2,079K**; FY03: **\$2,077K**; FY04: **\$1,300K**. Base Civil Engineer: Lt Col Dave Funk, (228) 377-2615. Student Dormitory 9,912 SM = 106,653 SF; Base Exchange 1,675 SM = 18.023 SF

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

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KEESLER AIR FORCE BASE, MISSISSIPPI		
1. PROJECT TITLE STUDENT DORMITORY (200 RM)		5. PROJECT NUMBER MAHG053001
12. SUPPLEMENTAL DATA: Design, Bid, Build		
a. Estimated Design Data:		
(1) Status:		
(a) Date Design Started		16-JUL-01
(b) Parametric Cost Estimates used to develop costs		YES
(c) Percent Complete as of Jan 02		65 %
(d) Date 35% Designed.		31-OCT-01
(e) Date Design Complete		20-AUG-02
(f) 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 -		KEESLER
(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)		
(a) Production of Plans and Specifications		880
(b) All Other Design Costs		440
(c) Total		1,320
(d) Contract		1,100
(e) In-house		220
(4) Construction Contract Award Date		02 Nov
(5) Construction Start		03 Jan
(6) Construction Completion		05 Jan
* Indicates completion of Protect Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.		
i. Equipment associated with this project will be provided from other appropriations: N/A		

1. COMPONENT AIR FORCE		FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)						2. DATE			
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE. NEVADA				4. COMMAND AIR COMBAT COMMAND				5. AREA CONST COST INDEX 1.17			
6. PERSONNEL STRENGTH		PERMANENT			STUDENTS			SUPPORTED			TOTAL
		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 01		875	5,550	1,978				372	823	290	9,888
b. End FY 2005		896	5,720	1,986				372	823	290	10,087
7. INVENTORY DATA \$(000)											
a. Total Acreage		13,742									
b. Inventory Totals as of: 30 Sep 01		559.134									
c. Authorization Not Yet In Inventory:		19.621									
d. Authorization Requested In this Program:		30.450									
e. Authorization Included In Following Program: (FY2004)		0									
f. Planned in Next Four Program Years:		31.920									
g. Remaining Deficiency:		72.600									
h. Grand Total:		713.725									
8. Projects Requested in this Program: N2003											
CATEGORY		PROJECT TITLE				SCOPE		COST DESIGN STATUS			
CODE								\$(000) START		CMP	
216-642		F-22 Munitions Maintenance Facility				743 SM		\$3,170 MAY 01		SEP 02	
721-312		Dormitory (144 RM)				144 RM		\$12,280		TURN KEY	
31 I-146		Land Acquisition				1 LS		\$15,000		TURN KEY	
								Total \$30,450			
9a. Future Projects: Included in the Following Program: (FY2004) No Projects											
9b. Future Projects: Typically Planned Next Four Years											
141-165		Explosive Ordnance Disposal Facility				2,600 SM		\$6,320			
171-712		Nevada Training Range Initiative				1 LS		\$15,000			
214-425		Vehicle Maintenance Complex				3,192 SM		\$10,600			
9c. Real Property Maintenance Backlog This Installation										44	
10. Mission or Major Functions: The Air Warfare Center; a flying wing that includes the Weapons Schools for the following (A-1 0, B-1, B-52, F-1 5C/Es, F-1 6C, HH-60. Command and Control. intelligence. and Space Weapons), an adversary threat group (Red Flag), a test squadron (A-1 0, F-1 5, and F-1 6 aircraft), the USAF Air Demonstration Squadron (Thunderbirds), and a HH-60 rescue squadron; Air Force Combat Rescue School; a close air support training unit(Air Warrior), a Red Horse squadron; AF Material Command Munitions squadron, and an Air to Ground Operations School (AGOS).											
11. Outstanding pollution and safety (OSHA) deficiencies:											
a. Air pollution		0									
b. Water pollution		0									
c. Occupational Safety and Health		0									
d. Other Environmental		0									

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		4. PROJECT TITLE DORMITORY (144 RM)		
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 721-312	7. PROJECT NUMBER RKMF013010	8. PROJECT COST (\$000) 12,280	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (144 RM)	RM	144	0	9,352
DORMITORY	SM	4,752	1,948	(9,257)
ANTITERRORISM FORCE PROTECTION	SM	4,752	20	(95)
SUPPORTING FACILITIES				1,720
UTILITIES	LS			(550)
PAVEMENTS	LS			(430)
SITE IMPROVEMENTS	LS			(300)
RELOCATE ATHLETIC FIELD	LS			(300)
COMMUNICATIONS	LS			(140)
SUBTOTAL				11,072
CONTINGENCY (5.0 %)				554
TOTAL CONTRACT COST				11,626
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				663
TOTAL REQUEST				12,288
TOTAL REQUEST (ROUNDED)				12,280
10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls, standing seam metal roof, utilities, fire detection/suppression. site improvements, landscaping. pavements, relocation of athletic field, and all necessary support. Complies with DoD interim minimum construction standards. Air Conditioning: 450 Kw. Grade Mix: E1-E4 144				
11. REQUIREMENT: 1,693 RM ADEQUATE: 1,190 RM SUBSTANDARD: 503 RM PROJECT: Construct Dormitory (144 RM). (Current Mission) REQUIREMENT: A major Air Force 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 the increasingly complex and important jobs these people perform. The retention of these highly trained airman are essential to our readiness posture and continuing world-wide presence. Complies with DoD interim force protection construction standard. CURRENT SITUATION: The base has insufficient on-base housing to accommodate the unaccompanied enlisted personnel. This project is in accordance with the Air Force Dormitory Master Plan. 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. ADDITIONAL: This project meets the criteria/scope specified in the new uniform barrack construction standard, known as "one-plus-one" established by OSD. All known alternatives were considered during the development of this project. No other Option could meet the mission requirements. Therefore, no economic analysis was needed or performed. FY00 Unaccompanied Housing RPM Conducted: 6,537K; FY01 Unaccompanied Housing RPM Conducted: \$4,253K. Future Unaccompanied Housing RPM requirements (estimated): FY02: \$3,400K; FY03: \$3,100K; FY04: \$3,400K. Base Civil Engineer: Colonel Arvil E. White III, (702) 652-4833. (Dormitory: 4,750 SM = 51,110				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		
4. PROJECT TITLE BARRACKS (144 RM)		5. PROJECT NUMBER RKMFO13010
<p>12. SUPPLEMENTAL DATA: Design Build</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis.</p> <p style="padding-left: 40px;">(a) Standard or Definitive Design - NO</p> <p style="padding-left: 40px;">(b) Where Design Was Most Recently Used -</p> <p>(3) Design Allowance 336</p> <p>(4) Construction Contract Award Date 02 Oct</p> <p>(5) Construction Start 02 Dec</p> <p>(6) Construction Completion 03 Jan</p> <p>(7) Energy Study/Life-Cycle analysts was/will be performed YES</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p>		

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA			4. PROJECT TITLE F-22 MUNITIONS MAINTENANCE FACILITY		
5. PROGRAM ELEMENT 27219	6. CATEGORY CODE 216642	7. PROJECT NUMBER RKMF003008R2	8. PROJECT COST (\$000) 3.170		
9 COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
F-22 MUNITIONS MAINTENANCE FACILITY		SM	743		1.77:
MUNITIONS MAINTENANCE FACILITY		SM	743	2,376	(1,765
ANTITERRORISM FORCE PROTECTION		SM	743	10	(7
SUPPORTING FACILITIES					1.085
UTILITIES		LS			(42
PAVEMENTS		SM	7.000	30	(210
SITE IMPROVEMENTS		SM	8.000	20	(160
COMMUNICATIONS DUCT		LM	800	180	(144
WATER STORAGE		LS			(300
DEMOLITION		SM	933	250	(233
SUBTOTAL					2,862
CONTINGENCY (5.0%)					143
TOTAL CONTRACT COST					3,005
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)					171
TOTAL REQUEST					3,176
TOTAL REQUEST (ROUNDED)					3,170
<p>10. Description of Proposed Construction: Reinforced concrete floors, structural steel frame, masonry block walls, standing seam metal roof, secure work area, fire detection/protection, fixtures, HVAC, sitework, pavements, water storage, communication ducts, and support utilities as required Includes minimum DoD interim standard force protection measures.</p> <p>Air Conditioning: 15 KW</p>					
<p>11. REQUIREMENT: 3,623 SM ADEQUATE: 2,490 SM SUBSTANDARD: 933 SM</p> <p>PROJECT: Construct a F-22 munitions maintenance facility. (New Mission)</p> <p>REQUIREMENT: An adequately sized and configured four-bay munitions maintenance facility is required to support the beddown of the next multi-ruled F-22 fighters at Nellis AFB. NV. This new system will increase the number and type of weapons employed at Nellis AFB to support Operational Test and Evaluation and the USAF Weapons School. An adequate munitions maintenance facility is required for the safe handling and build-up of precision munitions and missiles. This facility eliminates the possibility of work-arounds required to prevent mission disruption and degradation. Force protection measures include minimum DoD interim force protection standards.</p> <p>CURRENT SITUATION: Due to the diversified weapons systems and training requirements at Nellis AFB, there are no excess facilities of adequate size or configuration that can be made available or economically converted to support the beddown of this mission. The munitions maintenance facility must be completed prior to FY04 in order to build, maintain and employ various munitions as part of the continuing F-22 testing and evaluation program. Inefficient or inadequate munitions maintenance facilities require excessive handling of munitions and storage outside in harsh weather conditions, and the risk for serious injury is dramatically increased. The existing munitions maintenance facility is a steel frame metal building that does not meet explosive safety criteria. The munitions bays do not have explosive proof walls and the roof system is frangible. Under these conditions, the facility cannot be fully utilized, forcing munitions personnel to accomplish the build-up of munitions through shift</p>					

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		4. PROJECT TITLE F-22 MUNITIONS MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 27219	6. CATEGORY CODE 216642	7. PROJECT NUMBER RKMF003008R2	8. PROJECT COST (\$000) 3.170
<p>work and in alternate facilities. This project will consolidate operations in a single facility and reduce the manpower workload.</p> <p>IMPACT IF NOT PROVIDED: Weapons and munitions storage operations will continue to be conducted in undersized and inefficient facilities. Equipment and munitions will be stored and maintained outside in harsh weather conditions. Munitions personnel will be forced to work in overcrowded and unsafe facilities negatively impacting their health, safety, and morale. The potential for a serious munitions accident will continue to grow.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, 'Facility Requirements'. A preliminary analysis of reasonable options for accomplishing this project indicates there is only one option that will meet operational requirements. A full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: Col Arvil E White III. (702) 652-4833. Munitions Maintenance Facility: 743 SM = 7,995 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 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE																										
3. INSTALLATION AND LOCATION NELLIS AIR FORCEBASE, NEVADA																												
1. PROJECT TITLE -22 MUNITIONS MAINTENANCE FACILITY	5. PROJECT NUMBER RKMF003008R2																											
<p>12. SUPPLEMENTAL DATA: Design, Bid, Build</p> <p>a. Estrmated Design Data:</p> <p>(1) Status:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Date Design Started</td> <td style="text-align: right;">31-MAY-01</td> </tr> <tr> <td style="padding-left: 20px;">(b) Parametric Cost Estimates used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">. (c) Percent Complete as of Jan 02</td> <td style="text-align: right;">15 %</td> </tr> <tr> <td style="padding-left: 20px;">. (d) Date 35% Designed.</td> <td style="text-align: right;">20-SEP-01</td> </tr> <tr> <td style="padding-left: 20px;">(e) Date Design Complete</td> <td style="text-align: right;">03-SEP-02</td> </tr> <tr> <td style="padding-left: 20px;">(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Standard or Definitive Design -</td> <td style="text-align: right;">NC</td> </tr> <tr> <td style="padding-left: 20px;">(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" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Productton of Plans and Specifications</td> <td style="text-align: right;">192</td> </tr> <tr> <td style="padding-left: 20px;">(b) All Other Design Costs</td> <td style="text-align: right;">96</td> </tr> <tr> <td style="padding-left: 20px;">(c) Total</td> <td style="text-align: right;">288</td> </tr> <tr> <td style="padding-left: 20px;">(d) Contract</td> <td style="text-align: right;">256</td> </tr> <tr> <td style="padding-left: 20px;">(e) In-house</td> <td style="text-align: right;">32</td> </tr> </table> <p>(4) Construction Contract Award Date 02 Oct</p> <p>(5) Construction Start 02 Dec</p> <p>(6) Constructron Completion 03 Oct</p> <p>. Indicates completion of Project Defrnition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>). Equipment associated with this project will be provided from other appropriations: NA</p>			(a) Date Design Started	31-MAY-01	(b) Parametric Cost Estimates used to develop costs	YES	. (c) Percent Complete as of Jan 02	15 %	. (d) Date 35% Designed.	20-SEP-01	(e) Date Design Complete	03-SEP-02	(f) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design -	NC	(b) Where Design Was Most Recently Used -		(a) Productton of Plans and Specifications	192	(b) All Other Design Costs	96	(c) Total	288	(d) Contract	256	(e) In-house	32
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1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		4. PROJECT TITLE LAND ACQUISITION		
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 911-146	7. PROJECT NUMBER RKMF023002	8. PROJECT COST (\$000) 15,000	
9. COST ESTIMATES				
ITEM	UN	QUANTITY	UNIT COST	COST (\$000)
LAND ACQUISITION	LS			15,000
SUPPORTING FACILITIES				C
SUBTOTAL				15,000
CONTINGENCY (0.0 %)				C
TOTAL CONTRACT COST				15,000
SUPERVISION, INSPECTION & OVERHEAD (0 %)				0
TOTAL REQUEST				15,000
TOTAL REQUEST (ROUNDED)				15,000
10. Description of Proposed Construction: Provides for the acquisition of replacement lands on the Nevada Test and Training Range portion of the Desert National Wildlife Range in support of Public Law 106-65, Military Lands Withdrawal Act of 1999, Acquisition Replacement Property.				
11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS				
<u>PROJECT:</u> Land Acquisition. (Current Mission)				
<u>REQUIREMENT:</u> Adequate ranges for live ordnance and tactical operations and testing of new weapons systems. The ranges must provide enough ground and air space for unrestricted tactic operations and delivery of live ordnance. The ranges must also accommodate the testing of new aircraft and weapons systems.				
<u>CURRENT SITUATION:</u> Public Law 99-606, Military Land Withdrawal Act (MLWA) of 1986. is responsible for the withdrawal of lands (approximately 3 million acres) comprising the Nellis Air Force Range, reserving it exclusively /or a period of 15 years. That reservation expired in November 2001. The MLWA also provides for a renewal in accordance with the Department of Interior regulations for land withdrawals and requires the Secretary of the Air Force to notify the Secretary of the Interior that there is a continuing military need for the land. Public Law 106-55, Military Lands Withdrawal Act of 1999, Acquisition of Replacement Property, requires the replacement of Yational Wildlife Refuge Lands withdrawn for Air Force testing and training requirements. The law authorizes the transfer of funds from the Secretary of the Air Force to the Secretary of the Interior for acquiring such lands. These actions will continue to provide a location to test weapons systems and tactics, and training military personnel to meet nationally directed missions. Nearly 50% of all live ordnance loaded and expended for training n the Air Force (worldwide) and 75% of all loaded and expended ordnance within the CONUS is done at Nellis AFB.				
<u>MPACT IF NOT PROVIDED:</u> The adverse impact on Nellis AFB and its flying mission would be insurmountable. The inability to fly live ordnance or tactical training missions would adversely affect the readiness of aircrews.				
<u>ADDITIONAL:</u> Base Civil Engineer: Col Arvil E. White III, (702) 652-4833.				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		4. PROJECT TITLE LAND ACQUISITION	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 911-146	7. PROJECT NUMBER RKMF023002	8. PROJECT COST (\$000) 15,000

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 equipment.

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		
I. PROJECT TITLE AND ACQUISITION		5. PROJECT NUMBER RKMF023002
<p>12. SUPPLEMENTAL DATA: Design Build</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) Design Allowance 75</p> <p>(4) Construction Contract Award Date 02 Oct</p> <p>(5) Construction Start 02 Dec</p> <p>(6) Construction Completion 03 Jun</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed NO</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p>		

1. COMPONENT AIR FORCE	FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)							2. DATE		
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE. NEW JERSEY				4. COMMAND AIR MOBILITY COMMAND				5. AREA CONST COST INDEX 1.17		
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 01	611	3,770	2,005				107	388	119	7.000
b. End FY 2005	587	3,713	1,993				107	388	119	6.907
7. INVENTORY DATA \$(000)										
a. Total Acreage	3,661									
b. Inventory Totals as of: 30 Sep 01								455.058		
c. Authorzatron Not Yet In Inventory:								28.085		
d. Authorization Requested In this, Program:								24.631		
e. Authorization Included In Following Program: (FY2004)								0		
f. Planned in Next Four Program Years:								72.989		
g. Remaining Deficiency:								256.900		
h. Grand Total:								837.663		
}. Projects Requested in this Program: FY2003										
CATEGORY							COST DESIGN STATUS			
CODE	PROJECT TITLE				SCOPE		\$(000)	START	CMP	
141-753	C-17 Flightline Operations Facilities				9.860 SM		\$24.631	APR 01	SEP 02	
							Total		\$24,631	
la. Future Projects: Included in the Following Program: (FY2004) No Projects										
lb. Future Projects. Typically Planned Next Four Years										
171-815	ADAL NCOA Academic Facilities				13.079 SM		\$13.089			
171-816	ADAL NCOA PME Center				3.112 SM		\$8.900			
122-264	Munitions Storage				1.945 SM		\$7.200			
310-128	Consolidated Air Mobility Squadron Facility				2.450 SM		\$17,000			
721-315	Air Mobility Warfare Visiting Quarters				5.600 SM		\$15,000			
312-225	Electrical Distribution Svstem				10,010 SM		\$11,800			
c. Real Property Maintenance Backlog This Installation 88										
0. Mission or Major Functions: HQ 21st Air Force; an air mobility wing with two C-141 squadrons and two KC-10 quadrons; an Air Mobility Operations Group (AMOG). the Air Mobility Command Mobility Warfare Center; an (FRC C-141/KC-10 associate air mobility wing; and a NJ-ANG air refueling wing with two KC-135 squadrons.										
1. Outstanding pollution and safety (OSHA) deficiencies:										
a. Air pollution										0
b. Water pollution										0
c. Occupational Safety and Health										0
d. Other Environmental										0

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY		4. PROJECT TITLE C-17 FLIGHTLINE OPERATIONS FACILITIES		
5. PROGRAM ELEMENT 41130	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PTFL033099	8. PROJECT COST (\$000) 24,631	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
C-17 PLIGHTLINE OPERATIONS FACILITIES	SM	9,801	0	13,606
LIFE SUPPORT/SURVIVAL EQUIPMENT SHOP	SM	2,300	1,450	(3,335)
SQUADRON OPERATIONS FACILITY	SM	4,654	1,575	(7,330)
ADD TO NOSE DOCK	SM	1,788	1,109	(1,983)
ALTER NOSE DOCK	SM	1,059	636	(674)
ANTITERRORISM FORCE PROTECTION MEASURES	SM	9,001	29	(284)
SUPPORTING FACILITIES				8,524
UTILITIES	LS			(3,182)
PAVEMENTS/ROADS	LS			(2,465)
SITE IMPROVEMENTS	LS			(450)
DEMOLITION	SM	3,010	220	(662)
ELEVATOR	EA	1	125,000	(125)
DIST LINES/WATER MAINS/FIRE PUMPING STATION	LS			(1,640)
SUBTOTAL				22,130
CONTINGENCY (5.0 %)				1,106
TOTAL CONTRACT COST				23,236
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				1,324
TOTAL REQUEST				24,561
TOTAL REQUEST (ROUNDED)				24,631
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(5,050.0)
0. Description of Proposed Construction: Construct a 1-story C-17 Squadron operations facility/AMU. Construct Life Support/Survival Equipment Shop. Add to and Alter the Nose Dock by enlarging hangar door and performing structural mods. Provides utilities and roads to include 3 inches of asphalt pavement, curbs, proper drainage, lights, and fire pump station. Includes physical security measures IAW OD minimum construction standards.				
1. REQUIREMENT: 10,349 SM ADEQUATE: 0 SM SUBSTANDARD: 3,010 SM				
PROJECT: C-17 flightline operations facilities. (New Mission)				
EQUIPMENT: Construction is required to support the beddown of C-17 aircraft to include a consolidated Squadron Operations, Maintenance Facility, and Life Support/Survival Equipment Shop. Also, to add and alter a Nose Dock and utilities/Roads. These flightline operations facilities and utilities/roads support personnel and equipment for the beddown of the C-17 aircraft. The first C-17 arrives in FY2004 and a total of 14 C-178 will be on station at the completion of these requirements.				
CURRENT SITUATION: The base does not have adequate facilities or utilities/roads to conduct squadron level maintenance and operations for the C-17 aircraft. The existing life support/survival equipment and squadron operation facilities cannot accommodate current requirements much less a C-17 beddown requirement. The squadron operations and maintenance personnel operate from six small and physically separated buildings creating fragmented lines of communication/authority. On the Nose Dock, the existing hangar doors and opening are too small to accommodate the C-17 aircraft				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY	4. PROJECT TITLE C-17 FLIGHTLINE OPERATIONS FACILITIES
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5. PROGRAM ELEMENT 41130	6. CATEGORY CODE 141-753	7. PROJECT NUMBER PTFLO33099	8. PROJECT COST (\$000) 24,631
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and the interior electrical, lighting, and mechanical systems do not meet codes. In addition, over all interior conditions need renovating and does not comply with Facility Standard for aircraft maintenance. Utility repairs are necessary to complete the C-17 beddown. The fire pumping station that supplies fire protection to the new facilities needs repair.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform essential maintenance and repair on the C-17 aircraft. The operational squadron will be undersized and geographically separated from their other functions creating operational deficiencies. Fragmented operations will increase the potential for security compromises. With no acceptable work arounds, high risk solutions will be implemented that will impact operational capabilities and violate safety criteria. Without these facilities, the Base will be unable to perform maintenance on the C-17 aircraft.

ADDITIONAL: These projects meet the criteria and scope outlined in Air Force Handbook 21-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing these projects (status quo, renovation, new construction, leasing) was done. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. BCL: Col Charles Smiley, (609) 754-2672. Life Support/Survival Equipment Shop: 2,300 SM = 24,740 SF; Squadron Operations Facility: 4,654 SM = 50,077 SF; Add to Nose Dock: 1,788 SM = 19,239 SF; Alter Nose Dock: 1,059 SM = 11,395 SF.

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

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE																																										
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1. COMPONENT AIR FORCE	FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)		2. DATE							
3. INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA		4. COMMAND AIR MOBILITY COMMAND		5. AREA CONST COST INDEX 0.88						
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 01	651	4.320	496				57	152	77	5.753
b. End FY 2005	647	4.478	504				57	152	77	5.915
7. INVENTORY DATA \$(000)										
a. Total Acreage		1.986								
b. Inventory Totals as of. 30 Sep 01		233.607								
c. Authorization Not Yet In Inventory:		36.832								
d. Authorization Requested In this Program:		9.700								
e. Authorization Included In Following Program. (FY2004)		9.100								
f. Planned in Next Four Program Years:		53.500								
g. Remaining Deficiency:		95.800								
h. Grand Total:		438.539								
3. Projects Requested in this Program: FY2003										
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	DESIGN START	STATUS CMP					
721-312	Dormitory (144 RM)	144 RM	\$9,700	TURN	KEY					
			Total			\$9,700				
9a. Future Projects: Included in the Following Program: (FY2004)										
721-312	Dormitory	144 RM	\$9,100							
			Total	\$9,100						
9b. Future Projects: Typically Planned Next Four Years										
141-753	682 Air Support Operations Squadron	5,565 SM	\$7,500							
149692	Fire Station/Control Tower	3,599 SM	\$9,900							
217-713	A-1 0 ECM Consolidated Maintenance Facility	2,600 SM	\$5,300							
218-712	Aerospace Ground Equipment Facility	2,800 SM	\$6,400							
510-243	Fighter Group Hq	1,784 SM	\$4,000							
721-312	Dormitory	120 RM	\$8,000							
730-441	Education-PME Center/Library	5,324 SM	\$12,400							
9c. Real Property Maintenance Backlog This Installation										53
0. Mission or Major Functions: An airlift wing with two C-130 squadrons; a fighter operations group with two A/OA-0 squadrons; and two AFSOC squadrons.										
1. Outstanding pollution and safety (OSHA) deficiencies:										
a. Air pollution		0								
b. Water pollution		0								
c. Occupational Safety and Health		0								
d. Other Environmental		0								

1. COMPONENT AIR FORCE		FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
3. INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA			4. PROJECT TITLE DORMITORY (144 RM)		
5. PROGRAM ELEMENT 41896	6. CATEGORY CODE 721-312	7. PROJECT NUMBER TMKH033002	8. PROJECT COST (\$000) 9.700		
9 COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (144 RM)		RM	144		7.046
DORMITORY		SM	4.752	1.468	(6.976)
ANTITERRORISM FORCE PROTECTION		SM	4,752	15	(70)
SUPPORTING FACILITIES					1,750
UTILITIES		LS			(780)
PAVEMENTS		LS			(480)
SITE IMPROVEMENTS		LS			(375)
COMMUNICATIONS SUPPORT		LS			(115)
SUBTOTAL					8,796
CONTINGENCY (5.0 %)					440
TOTAL CONTRACT COST					9.235
SUPERVISION. INSPECTION & OVERHEAD (5 7 %)					526
TOTAL REQUEST					9,762
TOTAL REQUEST (ROUNDED)					9.700
<p>10. Description of Proposed Construction: Three-story facility with reinforced concrete foundation, floor slabs, steel frame, brick veneer exterior walls, and sloped roof. Includes room-bath/kitchen-room modules, laundries, storage, lounge area, communications, and all other support. Complies with DoD interim minimum force protection construction standard.</p> <p>Air Conditioning: 175 KW Grade Mix- 144 EI-E4.</p>					
<p>11. REQUIREMENT 1,169 RM ADEQUATE. 672 RM SUBSTANDARD. RM</p> <p><u>PROJECT:</u> Construct a dormitory. (Current Mission)</p> <p><u>REQUIREMENT:</u> A major Air Force 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 the increasingly complicated and important jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Complies with DoD interim minimum force protection construction standard.</p> <p><u>CURRENT SITUATION:</u> The base has insufficient on-base housing to accommodate the unaccompanied enlisted personnel. This project is in accordance with the Air Force Dormitory Master Plan</p> <p><u>IMPACT IF NOT PROVIDED:</u> 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.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in the new uniform barracks standard known as 'one-plus-one' established by OSD. All known alternatives were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. FY00 Unaccompanied Housing RPM conducted: \$4,217K; FY01 Unaccompanied Housing RPM conducted: \$4,760K. Future Unaccompanied Housing RPM estimated: FY02: \$4,600K; FY03: \$4,260K; FY04:</p>					

1. COMPONENT AIR FORCE		FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA			4. PROJECT TITLE DORMITORY (144 RM)	
5. PROGRAM ELEMENT 41896	6. CATEGORY CODE 721-312	7. PROJECT NUMBER TMKH033002	8. PROJECT COST (\$000) 9,700	

\$4,220K. BCE: Lt Col John Cawthome, (910) 394-2561. Dormitory: 4,752 SM = 51,132 SF.

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

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE																										
3. INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA																												
4. PROJECT TITLE DORMITORY (144 RM)	5. PROJECT NUMBER TMKH033002																											
<p>12. SUPPLEMENTAL DATA: Design, Bid, Build</p> <p>a. Estimated Design Data:</p> <p>(1) status:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Date De-sign Started</td> <td style="text-align: right;">02-APR-01</td> </tr> <tr> <td style="padding-left: 20px;">(b) Parametric Cost Estimates used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">(c) Percent Complete as of Jan 02</td> <td style="text-align: right;">15 %</td> </tr> <tr> <td style="padding-left: 20px;">(d) Date 35% Designed.</td> <td style="text-align: right;">01-SEP-01</td> </tr> <tr> <td style="padding-left: 20px;">(e) Date Desrgn Complete</td> <td style="text-align: right;">01-SEP-02</td> </tr> <tr> <td style="padding-left: 20px;">(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Standard or Definitive Design -</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">(b) Where Design Was Most Recently Used -</td> <td style="text-align: right;">POPE</td> </tr> </table> <p>(3) Total Cost (C) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Production of Plans and Specifications</td> <td style="text-align: right;">388</td> </tr> <tr> <td style="padding-left: 20px;">(b) All Other Design Costs</td> <td style="text-align: right;">194</td> </tr> <tr> <td style="padding-left: 20px;">(c) Total</td> <td style="text-align: right;">562</td> </tr> <tr> <td style="padding-left: 20px;">(d) Contract</td> <td style="text-align: right;">485</td> </tr> <tr> <td style="padding-left: 20px;">(e) In-house</td> <td style="text-align: right;">97</td> </tr> </table> <p>(4) Constructon Contract Award Date 02 Nov</p> <p>(5) Construction Start 03 Jan</p> <p>(6) Construction Completion 04 Jul</p> <p>. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>c. Equipment associated with this project will be provided from other appropriations: N/A</p>			(a) Date De-sign Started	02-APR-01	(b) Parametric Cost Estimates used to develop costs	YES	(c) Percent Complete as of Jan 02	15 %	(d) Date 35% Designed.	01-SEP-01	(e) Date Desrgn Complete	01-SEP-02	(f) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design -	YES	(b) Where Design Was Most Recently Used -	POPE	(a) Production of Plans and Specifications	388	(b) All Other Design Costs	194	(c) Total	562	(d) Contract	485	(e) In-house	97
(a) Date De-sign Started	02-APR-01																											
(b) Parametric Cost Estimates used to develop costs	YES																											
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(d) Contract	485																											
(e) In-house	97																											

1. COMPONENT AIR FORCE	FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)						2. DATE				
3. INSTALLATION AND LOCATION WRIGHT PATTERSON AIR FORCE BASE, OHIO				4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONST COST INDEX 1.44				
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL	
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV		
a. As of 30 Sep 01	2,730	2,490	3,634	5			81	138	4,169	13,24	
b. End FY 2005	2,622	2,504	3,184				81	138	4,169	12.69	
7. INVENTORY DATA \$(000)											
a. Total Acreage 8,145											
b. Inventory Totals as of: 30 Sep 01 1,087,074											
c. Authorization Not Yet In Inventory: 101,932											
d. Authorization Requested In this Program: 10,400											
e. Authorization Included In Following Program: (FY2004) 10,400											
f. Planned in Next Four Program Years: 116,400											
g. Remaining Deficiency: 175,000											
h. Grand Total: 1,501,206											
3. Projects Requested in this Program: FY2003											
CATEGORY							COST		DESIGN		STATUS
CODE	PROJECT TITLE			SCOPE			\$(000)		START	CMP	
721-312	Dormitory (144 RM)			144 RM			\$10,400		TURN KEY		
							Total		\$10,400		
3a. Future Projects: Included in the Following Program: (FY2004)											
130-142	Consolidated Fire/Crash Rescue Station			3,319 SM			\$10,400				
							Total		\$10,400		
3b. Future Projects: Typically Planned Next Four Years											
113-321	Replace West Ramp, Phase 2			98,667 SM			\$8,700				
171-475	Small Arms Range Complex			3,906 SM			\$12,000				
171-851	Alter Graduate Education Fac			12,097 SM			\$9,600				
31 o-933	Consolidate Materials Computational Research Facility			5,813 SM			\$20,000				
311-173	Consolidated Information Tech Complex, Ph 1			9,832 SM			\$21,000				
610-I 12	Consolidate AFMC Law Offices			7,150 SM			\$8,600				
610-243	Consolidated Information Tech Complex, Ph 2			10,962 SM			\$22,000				
730-773	Add/Alter Chapel Activities Center			1,300 SM			\$3,300				
822-265	Replace Steam Lines/Tunnels Area B, Ph 2			1 LS			\$11,200				
3c. Real Property Maintenance Backlog This Installation 112											
10. Mission or Major Functions: Air Force Materiel Command headquarters which is responsible for management, control, and direction of research, acquisition and logistics support for air and space weapons systems and related components; Aeronautical Systems Center, Air Force Research Laboratory including directorates for Materials, Sensors, Air Vehicles, Human Effectiveness, and Propulsion; Air Force Institute of Technology; Air Force Museum; Air Force Security Assistance Center; National Aerospace Intelligence Center; National Airborne Operations Center; an air base wing; Air Force Reserve Command airlift wing with two C-141 airlift squadrons; and an AMC airlift flight with C-21 aircraft.											
1. Outstanding pollution and safety (OSHA) deficiencies:											
a. Air pollution 0											
b. Water pollution 0											
c. Occupational Safety and Health 0											
d. Other Environmental 0											

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION WRIGHT PATTERSON AIR FORCE BASE, OHIO	4. PROJECT TITLE DORMITORY (144 RM)
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5. PROGRAM ELEMENT 72896	6. CATEGORY CODE 721-312	7. PROJECT NUMBER ZHTV973211	8. PROJECT COST (\$000) 10,400
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9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (144 RM)	RM	144		7,755
DORMITORY	SM	4,752	1,616	(7,679)
ANTITERRORISM FORCE PROTECTION	SM	4,752	16	(76)
SUPPORTING FACILITIES				1,565
COMMUNICATIONS SUPPORT	LS			(115)
UTILITIES	LS			(650)
SITE IMPROVEMENTS	LS			(350)
PAVEMENTS	LS			(450)
SUBTOTAL				9,320
CONTINGENCY (5.0%)				466
TOTAL CONTRACT COST				9,786
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				558
TOTAL REQUEST				10,344
TOTAL REQUEST (ROUNDED)				10.400

10. Description of Proposed Construction: A three-story facility with reinforced concrete foundation and floor slabs, masonry walls and roof. Includes room-bath/kitchen-room modules, laundry facility, storage, lounge areas, site preparation, seismic requirements and all supporting utilities. Complies with DoD interim minimum force protection construction standard.
Air Conditioning: 195 KW Grade Mix: 144 EI-E4.

11. REQUIREMENT 620 RM ADEQUATE: 363 RM SUBSTANDARD: RM

PROJECT: Construct a dormitory. (Current Mission)

REQUIREMENT: A major Air Force 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 the increasingly complicated and important jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Complies with DoD interim minimum force protection construction standard.

CURRENT SITUATION: The base has insufficient on-base housing to accommodate the unaccompanied enlisted personnel. This project is in accordance with the Air Force Dormitory Master Plan,

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.

ADDITIONAL: This project meets the criteria/scope specified in the new uniform barracks construction standard, known as 'one-plus-one', established by OSD. All known alternatives were considered during the development of this project. No other option could meet the mission requirements. Therefore, no economic analysis was needed or performed. FY2000 Unaccompanied Housing RPM Conducted: \$660K. FY2001 Unaccompanied Housing RPM Conducted: \$563K. Future Unaccompanied Housing RPM requirements

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION WRIGHT PATTERSON AIR FORCE BASE, OHIO	4. PROJECT TITLE DORMITORY (144 RM)
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5. PROGRAM ELEMENT 72896	6. CATEGORY CODE 721-312	7. PROJECT NUMBER ZHTV973211	8. PROJECT COST (\$000) 10.400
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(estimated): FY02: **\$412K**; FY03: **\$370K**; **FY04: \$270K**. Base Civil Engineer: Mr Gary Johnson, (937) 257-6214. Dormitory: 4,750 SM = 51,132 SF. Design Build - Design Build Cost (4% of Subtotal Cost): **\$372,000**.

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

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION
WRIGHT PATTERSON AIR FORCE BASE, OHIO

4. PROJECT TITLE DORMITORY (144 Rhl)	5. PROJECT NUMBER ZHTV973211
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12. SUPPLEMENTAL DATA:	Design Build
a. Estimated Design Data:	
(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) Design Allowance	280
(4) Construction Contract Award Date	02 Nov
(5) Construction Start	03 Jan
(6) Construction Completion	05 Jan
(7) Energy Study/Life-Cycle analysis was/will be performed	YES
b. Equipment associated with this project will be provided from other appropriations: N/A	

1. COMPONENT AIR FORCE	FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)							2. DATE		
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS				4. COMMAND AIR EDUCATION AND TRAINING COMMAND				5. AREA CONST COST INDEX 0.82		
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
	a. As of 30 Sep 01	1,732	4,820	4,923	88	6,395		62	1,756	
b. End FY 2005	1,730	4,792	4,920	60	6,226		62	1,756	25	19.571
7. INVENTORY DATA \$(000)										
a. Total Acreage		2,753								
b. Inventory Totals as of: 30 Sep 01									604.290	
c. Authorization Not Yet In Inventory:									22.811	
d. Authorization Requested In this Program:									18,500	
e. Authorization Included In Following Program: (FY2004)									15,900	
f. Planned in Next Four Program Years:									78.100	
g. Remaining Deficiency:									526,510	
h. Grand Total:									1,266.111	
3. Projects Requested in this Program: FY2003										
CATEGORY CODE	PROJECT TITLE		SCOPE		COST \$(000)	DESIGN START	STATUS CMP			
721-312	Student Dormitory (200 RM)		200 RM		\$18,500	APR 01	AUG 02			
					Total	\$18,500				
3a. Future Projects: Included in the Following Program. (FY2004)										
721-312	Dormitory (200 RM)		200 RM		\$15,900					
					Total	\$15,900				
3b. Future Projects: Typically Planned Next Four Years										
141-456	Information Operations Center (AIA)		3,315 SM		\$8,800					
141-786	Consolidate Mobility Center		9,985 SM		\$14,000					
217-712	Consolidate Cryptologic Maintenance Facility		1 SM		\$3,000					
422-277	Joint Munitions Staging/Inspection Facility		1 SM		\$5,400					
721-312	Dormitory (100 RM)		100 RM		\$10,700					
721-312	Dormitory (200 RM)		200 RM		\$17,800					
730-835	Consolidate Security Forces Operations		3,065 SM		\$7,600					
740-674	Fitness Center		3,206 SM		\$5,300					
740-884	Construct Child Development Center Ph 2 Of 3		2,500 SM		\$5,500					
3c. Real Property Maintenance Backlog This Installation										78
IO. Mission or Major Functions: A training wing which includes Basic Military Training School, Air Force Security Forces Center, and security forces. cryptographic maintenance, recruiting, and Air Force and Navy food service courses; Defense Language Institute English Language Center; Department of Defense Military Working Dog Training Agency; Inter-American Air Forces Academy; an Air Force Reserve contingency hospital and training squadron, and a major Air Force medical center.										
1. Outstanding pollution and safety (OSHA) deficiencies:										
a. Air pollution									771	
b. Water pollution									310	
c. Occupational Safety and Health									0	
d. Other Environmental									0	

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS			4. PROJECT TITLE STUDENT DORMITORY (200 RM)	
5. PROGRAM ELEMENT 85796	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MPLS003284B	8. PROJECT COST (\$000) 18,500	
9 COST ESTIMATES				
ITEM	U/N	QUANTITY	UNIT COST	COST (\$000)
STUDENT DORMITORY (200 RM)	RN	200		13.39;
DORMITORY	SM	9,750	1,340	(13.06:
TRAINING MANAGER SPACE	SM	162	1,225	(19E
ANTITERRORISM FORCE PROTECTION	SM	9,912	13	(12E
SUPPORTING FACILITIES				3,37E
UTILITIES	LS			(56C
PAVEMENTS/ SITE IMPROVEMENTS	LS			(1,20C
PIER FOUNDATION	LS			(400
DEMOLITION	SM	8,100	100	(810
ASBESTOS ABATEMENT	SM	8.100	50	(405
SUBTOTAL				16,767
CONTINGENCY (5.0 %)				838
TOTAL CONTRACT COST				17.606
SUPERVISION. INSPECTION & OVERHEAD (5.7 %)				1,004
TOTAL REQUEST				18,609
TOTAL REQUEST (ROUNDED)				18,500
10. Description of Proposed Construction. Three-story facility with reinforced concrete foundation and floor slab, masonry walls and standing seam metal roof. Includes room-bath-room modules (two students per room), training manager areas, laundry, storage, lounge areas, and all other support. Complies with DoD interim minimum force protection construction standard. Demolish a facility (8.100 SM). Air Conditioning: 450 KW Grade Mix: 400 E1-E4				
11. REQUIREMENT: 1.472 RM ADEQUATE: 525 RM SUBSTANDARD: 700 RM				
<u>PROJECT:</u> Construct a student dormitory. (Current Mission)				
<u>REQUIREMENT:</u> A major Air Force 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 the increasingly complex and important jobs these people perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Complies with DoD interim minimum force protection construction standard.				
<u>CURRENT SITUATION:</u> The base has insufficient on-base housing to accommodate the unaccompanied enlisted technical training students. This project is in accordance with the Air Force Dormitory Master Plan.				
<u>IMPACT IF NOT PROVIDED:</u> Adequate living quarters will continue to be unavailable resulting in degradation of morale, productivity, and overall training effectiveness of these students.				
<u>ADDITIONAL:</u> The new OSD standard does not apply to housing constructed for technical training students. This project is being designed to the Air Force technical training design standard. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, and status quo operation. Based on				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION&ND LOCATION LACKLAND AIR FORCE BASE, TEXAS		4. PROJECT TITLE STUDENT DORMITORY (200 RM)	
5. PROGRAM ELEMENT 85796	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MPLS003284B	8. PROJECT COST (\$000) 18.500

the net present values and benefits of the respective **alternatives**, new constructron was found to be the most co: efficient over the life of the project. FY00 Unaccompanied **Housing** RPM conducted: **\$5,046K**, FY01 Unaccompanied Housing RPM conducted: **\$4,000K**. Future Unaccompanied Housing RPM requirements (estimated): FY02: **\$2,500K**; FY03: **\$2,000K**; FY04: \$1 ,000K. Base Civil Engineer: Lt Col Gordon Green, (210 671-2977. Student Dormitory: 9.750 **SM** = 104,910 SF; Training Managers Area: 162 **SM** = 1,744 SF.

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

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE																										
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS																												
4. PROJECT TITLE STUDENT DORMITORY (200 RM)	5. PROJECT NUMBER MPLS003284B																											
<p>12. SUPPLEMENTAL DATA: Design, Bid, Build</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Date Design Started</td> <td style="text-align: right;">10-APR-01</td> </tr> <tr> <td style="padding-left: 20px;">(b) Parametric Cost Estimates used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">. (c) Percent Complete as of Jan 02</td> <td style="text-align: right;">35 %</td> </tr> <tr> <td style="padding-left: 20px;">. (d) Date 35% Designed.</td> <td style="text-align: right;">10-SEP-01</td> </tr> <tr> <td style="padding-left: 20px;">(e) Date Design Complete</td> <td style="text-align: right;">10-AUG-02</td> </tr> <tr> <td style="padding-left: 20px;">(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td style="text-align: right;">NO</td> </tr> </table> <p>(2) Basis:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Standard or Definitive Design -</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">(b) Where Design Was Most Recently Used -</td> <td style="text-align: right;">LACKLAND</td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Production of Plans and Specifications</td> <td style="text-align: right;">740</td> </tr> <tr> <td style="padding-left: 20px;">(b) All Other Design Costs</td> <td style="text-align: right;">370</td> </tr> <tr> <td style="padding-left: 20px;">(c) Total</td> <td style="text-align: right;">1,110</td> </tr> <tr> <td style="padding-left: 20px;">(d) Contract</td> <td style="text-align: right;">930</td> </tr> <tr> <td style="padding-left: 20px;">(e) In-house</td> <td style="text-align: right;">180</td> </tr> </table> <p>(4) Constructron Contract Award Date 02 Nov</p> <p>(5) Constructron Start 03 Jan</p> <p>(6) Constructron Completion 05 Jan</p> <p>. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p>			(a) Date Design Started	10-APR-01	(b) Parametric Cost Estimates used to develop costs	YES	. (c) Percent Complete as of Jan 02	35 %	. (d) Date 35% Designed.	10-SEP-01	(e) Date Design Complete	10-AUG-02	(f) Energy Study/Life-Cycle analysis was/will be performed	NO	(a) Standard or Definitive Design -	YES	(b) Where Design Was Most Recently Used -	LACKLAND	(a) Production of Plans and Specifications	740	(b) All Other Design Costs	370	(c) Total	1,110	(d) Contract	930	(e) In-house	180
(a) Date Design Started	10-APR-01																											
(b) Parametric Cost Estimates used to develop costs	YES																											
. (c) Percent Complete as of Jan 02	35 %																											
. (d) Date 35% Designed.	10-SEP-01																											
(e) Date Design Complete	10-AUG-02																											
(f) Energy Study/Life-Cycle analysis was/will be performed	NO																											
(a) Standard or Definitive Design -	YES																											
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1. COMPONENT AIR FORCE		FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)					2. DATE				
3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS			4. COMMAND AIR EDUCATION AND TRAINING COMMAND			5. AREA CONST COST INDEX 0.95					
6. PERSONNEL STRENGTH		PERMANENT			STUDENTS			SUPPORTED			TOTAL
		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 Sep 01		588	2,696	2,653	371	4,040		137	1,792	129	12,406
b. End FY 2005		572	2,438	2,661	380	3,918		137	1,792	129	12,027
7. INVENTORY DATA \$(000)											
a. Total Acreage		5,719									
b. Inventory Totals as of: 30 Sep 01		565.655									
c. Authorization Not Yet In inventory:		0									
d. Authorization Requested In this Program:		16,000									
e. Authorization Included In Following Program: (FY2004)		33,355									
f. Planned in Next Four Program Years:		77,195									
g. Remaining Deficiency:		207,684									
h. Grand Total:		899,889									
8. Projects Requested in this Program: FY2003											
CATEGORY		PROJECT TITLE		SCOPE		COST DESIGN STATUS					
CODE						\$(000) START		CMP			
171-212		ENJJPT Flight Simulator		2,217 SM		\$6,000 JAN 01				SEP 02	
721-312		Dormitory (144 RM)		144 RM		\$10,000 MAY 01				SEP 02	
				Total		\$16,000					
9a. Future Projects: Included in the Following Program: (FY2004)											
149-962		RAPCON/Control Tower		2,366 SM		\$11,355					
721-312		Dormitory (160 RM)		160 RM		\$22,000					
				Total		\$33,355					
9b. Future Projects: Typically Planned Next Four Years											
171-627		Trainer Maintenance / Development Facility		7,120 SM		\$16,695					
721-312		Dormitory (140 RM)		140 RM		\$18,400					
721-312		Dormitory (140 RM)		140 RM		\$17,800					
721-312		Dormitory (160 RM)		160 RM		\$23,000					
842-245		Construct Auxiliary Water Service		2,515 LM		\$1,300					
9c. Real Property Maintenance Backlog This Installation										40	
10. Mission or Major Functions: A training wing responsible for aircraft maintenance, civil engineering, comptroller, and health science courses: a flying training wing with T-37/T-38/AT-38 flying training squadrons that train US and NATO pilots under the Euro-NATO Joint Jet Pilot Training (ENJJPT) Program; and an Air Force Reserve Command flying training squadron.											
11. Outstanding pollution and safety (OSHA) deficiencies:											
a. Air pollution		175									
b. Water pollution		350									
c. Occupational Safety and Health		0									
d. Other Environmental		0									

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS		4. PROJECT TITLE DORMITORY (144 RM)		
5. PROGRAM ELEMENT 85796	6. CATEGORY CODE 721-312	7. PROJECT NUMBER VNVPO23004	8. PROJECT COST (\$000) 10.000	
9 COST ESTIMATES				
ITFM	U/N	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (144 RM)	RM	144		7.594
DORMITORY	SM	4,752	1.582	(7,518:
ANTITERRORISM FORCE PROTECTION	SM	4.752	16	(761
SUPPORTING FACILITIES				1.462
UTILITIES	LS			(550)
PAVEMENTS	LS			(500)
SITE IMPROVEMENTS	LS			(300
COMMUNICATIONS	LS			(112
SUBTOTAL				9,056
CONTINGENCY (5.0%)				453
TOTAL CONTRACT COST				9,508
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				542
TOTAL REQUEST				10,050
TOTAL REQUEST (ROUNDED)				10,000
<p>10. Description of Proposed Constructron: A three-story facility with reinforced concrete foundation and floor slabs masonry walls and sloping metal roof. Includes room-bath-room modules, kitchens, laundries, storage and lounge areas, utilities, parking and all other supporting facilities. Complies with DoD Interim minimum force protection construction standard.</p> <p>Air Conditioning: 360 KW Grade Mix: 144 EI-E4</p>				
<p>11. REQUIREMENT 583 RM ADEQUATE: 252 RM SUBSTANDARD: RM</p> <p><u>PROJECT:</u> Construct a dormitory (144 RM) (Current Mission).</p> <p><u>REQUIREMENT:</u> A major Air Force 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 the increasingly complicated and important jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Complies with DoD interim minimum force protection construction standard.</p> <p><u>CURRENT SITUATION:</u> The base has insufficient on-base housing to accommodate the unaccompanied enlisted personnel. This project is in accordance with the Air Force Dormitory Master Plan.</p> <p><u>IMPACT IF NOT PROVIDED:</u> 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.</p> <p><u>ADDITIONAL:</u> This project meets the scope/criteria specified in the new uniform barracks construction standard, known as 'one-plus-one,' established by OSD. All known alternatives were considered during the development of this project. No other option could meet mission requirements. Therefore no economic analysis was needed or performed. FY00 Unaccompanied Housing RPM Conducted: \$3,266K; FY01 Unaccompanied Housing RPM Conducted: \$3,088K. Future Unaccompanied Housing RPM requirements (estimated): FY02:</p>				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS	4. PROJECT TITLE DORMITORY (144 RM)
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5. PROGRAM ELEMENT 85796	6. CATEGORY CODE 721-312	7. PROJECT NUMBER VNVP023004	8. PROJECT COST (\$000) 10,000
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\$2,474K; FY03: \$2,598K; FY04: \$2,728K. Base Civil Engineer: Lt Col Hal M. Tinsley, (904) 676-2158.
DORMITORY: 4,752 SM = 51,132 SF

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

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE																										
3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS																												
4. PROJECT TITLE DORMITORY (144 RM)	5. PROJECT NUMBER VNVP023004																											
<p>121 SUPPLEMENTAL DATA: Design, Bid, Build</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Date Design Started</td> <td style="text-align: right;">1 O-MAY-01</td> </tr> <tr> <td style="padding-left: 20px;">(b) Parametric Cost Estimates used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">. (c) Percent Complete as of Jan 02</td> <td style="text-align: right;">15 %</td> </tr> <tr> <td style="padding-left: 20px;">. (d) Date 35% Designed.</td> <td style="text-align: right;">20-SEP-01</td> </tr> <tr> <td style="padding-left: 20px;">(e) Date Design Complete</td> <td style="text-align: right;">12-SEP-02</td> </tr> <tr> <td style="padding-left: 20px;">(f) Energy Study/Life-Cycle analysts was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Standard or Definitive Design -</td> <td style="text-align: right;">NO</td> </tr> <tr> <td style="padding-left: 20px;">(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" style="width: 100%;"> <tr> <td style="padding-left: 20px;">(a) Production of Plans and Specifications</td> <td style="text-align: right;">400</td> </tr> <tr> <td style="padding-left: 20px;">(b) All Other Design Costs</td> <td style="text-align: right;">200</td> </tr> <tr> <td style="padding-left: 20px;">(c) Total</td> <td style="text-align: right;">600</td> </tr> <tr> <td style="padding-left: 20px;">(d) Contract</td> <td style="text-align: right;">500</td> </tr> <tr> <td style="padding-left: 20px;">(e) In-house</td> <td style="text-align: right;">100</td> </tr> </table> <p>(4) Constructron Contract Award Date 02 Nov</p> <p>(5) Construction Start 03 Jan</p> <p>(6) Construction Completion 04 Sep</p> <p>. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p>			(a) Date Design Started	1 O-MAY-01	(b) Parametric Cost Estimates used to develop costs	YES	. (c) Percent Complete as of Jan 02	15 %	. (d) Date 35% Designed.	20-SEP-01	(e) Date Design Complete	12-SEP-02	(f) Energy Study/Life-Cycle analysts was/will be performed	YES	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	400	(b) All Other Design Costs	200	(c) Total	600	(d) Contract	500	(e) In-house	100
(a) Date Design Started	1 O-MAY-01																											
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1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION SHEPPARD AIR FORCE BASE, TEXAS	AND	LOCATION	4.	PROJECT TITLE ENJJPT FLIGHT SIMULATOR
5. PROGRAM ELEMENT 84744	6. CATEGORY CODE 171-212	7. PROJECT NUMBER VNVP033004	8. PROJECT COST (\$000) 6.000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
ENJJPT FLIGHT SIMULATOR	SM	2.217		4,399
FLIGHT SIMULATOR	SM	2.217	1,964	(4,354)
ANTITERRORISM FORCE PROTECTION	SM	2.217	20	(44)
SUPPORTING FACILITIES				944
UTILITIES	LS			(350)
PAVEMENTS	LS			(345)
SITE IMPROVEMENTS	LS			(249)
SUBTOTAL				5,343
CONTINGENCY (5.0 %)				267
TOTAL CONTRACT COST				5,610
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				320
TOTAL REQUEST				5,929
TOTAL REQUEST (ROUNDED)				6.000
EQUIPMENT FROM OTHER APPROPRIATIONS				(29,700)
<p>10. Description of Proposed Construction: Single story with concrete foundation/slab, masonry walls, structural steel frame/roof, utilities, and parking to support T-38C and T-6A Aircrew Training Devices (ATDs). Provides office, classrooms, briefing rooms, contractor support, labs, storage and other support. Comply with DoD interim minimum force protection construction standard</p> <p>Air Conditioning: 200 KW</p>				
<p>11. REQUIREMENT: 2,936 SM ADEQUATE: 719 SM SUBSTANDARD SM</p> <p><u>PROJECT:</u> Construct a Euro-NATO Joint Jet Pilot Training (ENJJPT) flight simulator facility. (New Mission)</p> <p><u>REQUIREMENT:</u> Adequately configured and sized facility to support T-38C and T-6A flight simulator operations. Simulator support for the T-38C ATDs will consist of four (4) Weapon System Trainers (WSTs), two (2) Operational Flight Trainers (OFTs) and four (4) Unit Training Devices (UTDs). T-6A ATDs will consist of three(3) OFTs, four (4) Instrument Flight Trainers (IFTs) and three UTDs. Includes adequate space for Contractor Logistics Support (CLS), training information management server, and student study area. Comply with DoD interim minimum force protection construction standard.</p> <p><u>CURRENT SITUATION:</u> Flight simulator operations are currently being performed in a 719 SM facility constructed in 1961. Trainers are stationary (LINK) modules for T-37 and T-38A aircrew development. The existing facility is not adequate to support the new T-38C and T-6A simulators. Deficiencies include size, ceiling height, floor loading capabilities and configuration. Timing is the most critical aspect of this project. The T-38C transition begins at Sheppard AFB in September 2005, with the first flight simulators arriving in March 2005. T-38A training will continue through March 2007, driving the requirement for having concurrent operations of both T-38A and T-38C simulators. Like-wise, T-6A transition begins in June 2007, with the first simulator arriving in July 2007. T-37 training will continue through March 2008, driving the requirement for having concurrent operations of both T-37 and T-6A simulators.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Failure to fund and complete this project will severely limit aircrew training capabilities of the 80th Flying Training Wing and Euro-NATO Joint Jet Pilot Training at Sheppard. Contractural commitments for the beddown of new aircraft and upgrade of existing inventory will not be kept,</p> <p><u>ADDITIONAL</u></p>				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS		4. PROJECT TITLE ENJJPT FLIGHT SIMULATOR	
5. PROGRAM ELEMENT 84744	6. CATEGORY CODE 171-212	7. PROJECT NUMBER VNVP033004	8. PROJECT COST (\$000) 6.000

~~Additional Information:~~ This project meets the **criteria/scope** specified in Air Force Handbook 32-1084, 'Facility Requirements.' An economic analysis has been prepared comparing the alternatives of new construction, **revitalization**, leasing and status quo operations. New construction was found to be the most cost efficient over the life of the project. The US and other NATO nations will share the total project cost based on participation in the ENJJPT program. Base Civil Engineer: Lt Col William Martin, (940) 676-2158. Flight **Simulator** Facility: 2.217 SM = 23,855 SF

JOINT USE CERTIFICATION: This facility will be Jointly funded and used by US and other NATO nations participating in joint ENJJPT training.

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<p>12. SUPPLEMENTAL DATA: Design, Bid, Build</p> <p>a. Estimated Design Data:</p> <p>(1) status:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">(a) Date Design Started</td> <td style="text-align: right;">20-JAN-01</td> </tr> <tr> <td style="padding-left: 20px;">(b) Parametric Cost Estimates used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td style="padding-left: 20px;">. (c) Percent Complete as of Jan 02</td> <td style="text-align: right;">15 %</td> </tr> <tr> <td style="padding-left: 20px;">. (d) Date 33% Designed.</td> <td style="text-align: right;">20-SEP-01</td> </tr> <tr> <td style="padding-left: 20px;">(e) Date Design Complete</td> <td style="text-align: right;">15-SEP-02</td> </tr> <tr> <td style="padding-left: 20px;">(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> <p>(2) Basis:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">(a) Standard or Definitive Design -</td> <td style="text-align: right;">NO</td> </tr> <tr> <td style="padding-left: 20px;">(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 style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">(a) Production of Plans and Specifications</td> <td style="text-align: right;">360</td> </tr> <tr> <td style="padding-left: 20px;">(b) All Other Design Costs</td> <td style="text-align: right;">180</td> </tr> <tr> <td style="padding-left: 20px;">(c) Total</td> <td style="text-align: right;">540</td> </tr> <tr> <td style="padding-left: 20px;">(d) Contract</td> <td style="text-align: right;">440</td> </tr> <tr> <td style="padding-left: 20px;">(e) In-house</td> <td style="text-align: right;">100</td> </tr> </table> <p>(4) Construction Contract Award Date 02 Nov</p> <p>(5) Construction Stan 03 Jan</p> <p>(6) Construction Completion 04 Apr</p> <p>. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>g. Equipment associated with this project will be provided from other appropriations:</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">EQUIPMENT NOMENCLATURE</th> <th style="text-align: center;">PROCURING APPROPRIATION</th> <th style="text-align: center;">FISCAL YEAR APPROPRIATED OR REQUESTED</th> <th style="text-align: right;">COST (\$000)</th> </tr> </thead> <tbody> <tr> <td>FLIGHT TRAINING SIMULATORS</td> <td style="text-align: center;">3010</td> <td style="text-align: center;">2004</td> <td style="text-align: right;">22800</td> </tr> <tr> <td>FLIGHT TRAINING SIMULATORS</td> <td style="text-align: center;">3010</td> <td style="text-align: center;">2003</td> <td style="text-align: right;">6900</td> </tr> </tbody> </table>			(a) Date Design Started	20-JAN-01	(b) Parametric Cost Estimates used to develop costs	YES	. (c) Percent Complete as of Jan 02	15 %	. (d) Date 33% Designed.	20-SEP-01	(e) Date Design Complete	15-SEP-02	(f) 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	360	(b) All Other Design Costs	180	(c) Total	540	(d) Contract	440	(e) In-house	100	EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)	FLIGHT TRAINING SIMULATORS	3010	2004	22800	FLIGHT TRAINING SIMULATORS	3010	2003	6900
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1. COMPONENT AIR FORCE	FY2003 MILITARY CONSTRUCTION PROGRAM (computer generated)									2. DATE																																				
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA				4. COMMAND AIR COMBAT COMMAND					5. AREA CONST COST INDEX 0.95																																					
6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL																																				
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV																																					
a. As of 30 Sep 01	1,939	6,555	1,930				32	110	252	10,818																																				
b. End FY 2005	1,951	6,823	1,904				32	110	252	11,072																																				
7. INVENTORY DATA \$(000)																																														
a. Total Acreage: 3.152																																														
b. Inventory Totals as of 30 Sep 01 309,516																																														
c. Authorzatron Not Yet In Inventory: 24,548																																														
d. Authorzatron Requested In this Program: 47,940																																														
e. Authorzatron Included In Following Program: (FY2004) 19,500																																														
f. Planned in Next Four Program Years 45,100																																														
g. Remaining Deficiency 91,500																																														
h. Grand Total: 538,104																																														
i. Protects Requested in this Program: FY2003																																														
<table border="1"> <thead> <tr> <th>CATEGORY CODE</th> <th>PROJECT TITLE</th> <th>SCOPE</th> <th>COST \$(000)</th> <th>DESIGN START</th> <th>STATUS CMP</th> </tr> </thead> <tbody> <tr> <td>113-321</td> <td>F-22 Infrastructure and Utilities</td> <td>1 LS</td> <td>\$10,700</td> <td>MAY 01</td> <td>SEP 02</td> </tr> <tr> <td>171-212</td> <td>F-22 Flight Simulator</td> <td>2.025 SM</td> <td>\$8,120</td> <td>MAY 01</td> <td>SEP 02</td> </tr> <tr> <td>211-175</td> <td>F-22 Squadron Operations/AMU</td> <td>7.481 SM</td> <td>\$20,800</td> <td>APR 01</td> <td>SEP 02</td> </tr> <tr> <td>721-312</td> <td>Dormitory (96 RM)</td> <td>96 RM</td> <td>\$8,320</td> <td colspan="2">TURNKEY</td> </tr> <tr> <td colspan="3"></td> <td>Total</td> <td colspan="2">\$47,940</td> </tr> </tbody> </table>											CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	DESIGN START	STATUS CMP	113-321	F-22 Infrastructure and Utilities	1 LS	\$10,700	MAY 01	SEP 02	171-212	F-22 Flight Simulator	2.025 SM	\$8,120	MAY 01	SEP 02	211-175	F-22 Squadron Operations/AMU	7.481 SM	\$20,800	APR 01	SEP 02	721-312	Dormitory (96 RM)	96 RM	\$8,320	TURNKEY					Total	\$47,940	
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			Total	\$47,940																																										
j. Future Protects: Included in the Following Program (FY2004)																																														
<table border="1"> <tbody> <tr> <td>141-454</td> <td>Operations Support Center</td> <td>5.575 SM</td> <td>\$19,500</td> <td colspan="2"></td> </tr> <tr> <td colspan="3"></td> <td>Total</td> <td colspan="2">\$19,500</td> </tr> </tbody> </table>											141-454	Operations Support Center	5.575 SM	\$19,500						Total	\$19,500																									
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740-253	Community Support Center	2,985 SM	\$5,600																																											
l. Real Property Maintenance Backlog This Installation 86																																														
m. Mission or Major Functions: Headquarters Air Combat Command; a fighter wing with three F-15 fighter squadrons; an airlift flight; an intelligence group; Aerospace Command and Control Intelligence, Surveillance and Reconnaissance Center (AC2ISRC), Detachment of the USAF Doctnne Center; and the Air Force Rescue Coordination Center.																																														
n. Outstanding pollution and safety (OSHA) deficiencies-																																														
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d. Other Environmental 0																																														

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3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA		4. PROJECT TITLE DORMITORY (96 RM)		
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MUHJ033000	8. PROJECT COST (\$000) 8.320	
9 COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (96 RM)	RM	96		5,139
ANTITERRORISM FORCE PROTECTION DORMITORY	LS			(51)
SUPPORTING FACILITIES	SM	3.168	1.606	(5.088)
UTILITIES	LS			2.363
PAVEMENTS	LS			(952)
SITE IMPROVEMENTS	LS			(541)
DEMOLITION	LS			(102)
ENVIRONMENTAL REMEDIATION	LS			(177)
SPECIAL FOUNDATIONS	LS			(341)
SUBTOTAL				(250)
CONTINGENCY (5.0 %)				7.502
TOTAL CONTRACT COST				375
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				7,877
TOTAL REQUEST				449
TOTAL REQUEST (ROUNDED)				8.326
				8.320
<p>0. Description of Proposed Construction: Reinforced concrete foundation 8 floor slabs, Insulated exterior masonry walls, sound attenuation, and sloped roofs. Includes lounge areas, balconies, bedrooms, semi-private laths. centralized storage, laundry room, utility room, communication requirements, fire protection systems, parking area, and all support facilities. Comply with DoD interim minimum construction standards.</p> <p>Air Conditioning: 200 KW Grade Mix: 96 EI-E4.</p>				
<p>11. REQUIREMENT: 1,493 RM ADEQUATE: 861 RM SUBSTANDARD: RM</p> <p><u>PROJECT:</u> Construct a dormitory. (Current Mission)</p> <p><u>REQUIREMENT:</u> A major Air Force 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 the increasingly complicated and important jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and our continuing world-wide presence. Complies with DoD Interim minimum force protection construction standard.</p> <p><u>CURRENT SITUATION:</u> The base has insufficient on-base housing to accommodate the unaccompanied enlisted personnel. This project is in accordance with the Air Force Dormitory Master Plan.</p> <p><u>IMPACT IF NOT PROVIDED:</u> 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.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in the new uniform barracks standard, known as one-plus-one, established by OSD. All known alternatives were considered during the development of this</p>				

1. COMPONENT AIR FORCE		FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
3. INSTALLATION&ND LOCATION ANGLEY AIR FORCE BASE, VIRGINIA			4. PROJECT TITLE DORMITORY (95 RM)		
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MUHJ033000	8. PROJECT COST (\$000) 8.320		
<p>project. No other option could meet the mission requirements. Therefore, no economic analysis was needed or performed. FY00 Unaccompanied Housing RPM Conducted: \$5,110K; FY01 Unaccompanied Housing RPM Conducted: \$3,938K. Future Unaccompanied Housing RPM requirements (estimated): FY02: \$3,150K; FY03: \$2,985K; FY04: \$3,100K. Base Civil Engineer: Lt Col Drew Jeter, (757) 764-2025. Dormitory: 3,168 SM = 34,088 SF. Design Build - Design Build Cost (4% of Subtotal Cost): \$304,000</p> <p style="text-align: center;">JOINT USE CERTIFICATION: Mission requirements, operational Considerations and location are incompatible with use by other components.</p>					

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA		
4. PROJECT TITLE DORMITORY (96 RM)	5. PROJECT NUMBER MUHJ033000	
<p>12. SUPPLEMENTAL DATA: Design Build</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p style="padding-left: 20px;">(a) Standard or Definitive Design - NO</p> <p style="padding-left: 20px;">(b) Where Design Was Most Recently Used -</p> <p>(3) Design Allowance 228</p> <p>(4) Construction Contract Award Date 02 Oct</p> <p>(5) Construction Start 02 Dec</p> <p>(6) Construction Completion 04 Jun</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>1b. Equipment associated with this project will be provided from other appropriations: N/A</p>		

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA			4. PROJECT TITLE F-22 FLIGHT SIMULATOR	
5. PROGRAM ELEMENT 27219	6. CATEGORY CODE 171-212	7. PROJECT NUMBER MUHJ033005	8. PROJECT COST (\$000) 8.120	
9 COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
F-22 FLIGHT SIMULATOR	SM	2,025		4.327
FLIGHT SIMULATOR	SM	2.025	2.127	(4,307
ANTITERRORISM FORCE PROTECTION	SM	2.025	10	(20
SUPPORTING FACILITIES				2.983
UTILITIES/PAVEMENTS/SITE IMPROVEMENTS	LS			(1,118
CONTAMINATED SOIL REMEDIATION	LS			(510
DEMOLITION(BLDG, FOUNDATION, PAVEMENT)	LS			(358
SPECIAL FOUNDATION	SM	2.024	179	(362
FACILITY SECURITY	LS			(300'
RECLAIMED AREA SURCHARGE	LS			(335'
SUBTOTAL				7.311
CONTINGENCY (5.0 %)				366
TOTAL CONTRACT COST				7,676
SUPERVISION, INSPECTION & OVERHEAD (5.7 46)				438
TOTAL REQUEST				8,114
TOTAL REQUEST (ROUNDED)				8.120
EQUIPMENT FROM OTHER APPROPRIATIONS				(38,000)
<p>10. Description of Proposed Constructton: Special foundations, brick faced masonry block walls, standing seam metal roof, secure work areas, fire suppression/detection, HVAC, utilities, site work, landscaping, parking, contaminated soil abatement, demolition of one facility (762 SM), pavement and underground structures, access road and traffic signal. Includes minimum DoD interim force protection standards.</p> <p>Air Conditionng: 130 KW</p>				
<p>11. REQUIREMENT: 2,025 SM ADEQUATE: SM SUBSTANDARD: SM</p> <p><u>PROJECT:</u> Construct a F-22 flight simulator facility. (New Mission)</p> <p><u>REQUIREMENT:</u> An adequately sized and configured Flight Simulator Training Facility is required to support the beddown of the first operational F-22 combat coded Wing. The Fighter Wing is scheduled to receive four F-22 Full Mission Trainers (FMTs), support equipment and personnel. The state-of-the-art FMTs are planned for delivery and installation nine months prior to the first aircraft delivery in Nov 04. Force protection complies with the DoD interim minimum standards.</p> <p><u>CURRENT SITUATION:</u> The base does not have adequate facilities to support the installation of four F-22 FMTs. The existing simulator is used for the current weapon system and must be retained in an operational raining configuration until the F-22 beddown is complete. The base is scheduled to transition from the three current fighter squadrons to three F-22 fighter squadrons over a three year period beginning in Nov 04. Due to significant changes in technology, the size of the new trainers, security and other unique features, the existing acility cannot support the new system.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without this facility, the base will be unable to receive and install the four F-22 FMTs to support F-22 operations. In addition, pilots and maintainers will not receive critical F-22 training, thus impacting readiness and proficiency. The lack of this facility could result in significant degradation in operational</p>				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA		4. PROJECT TITLE F-22 FLIGHT SIMULATOR	
5. PROGRAM ELEMENT 27219	6. CATEGORY CODE 171-212	7. PROJECT NUMBER MUHJ033005	8. PROJECT COST (\$000) 8.120

capability and increase the potential for a serious mishap.

ADDITIONAL: This project meets the **criteria/scope** specified in Air Force Handbook 32-1084, 'Facility Requirements'. A preliminary analysis of reasonable **options** was done and indicates only one option meets the operational requirements. A certificate of exception has been prepared. Base Civil Engineer: Lt Col Drew **Jeter**, (757) 764-2025. F-22 Flight Simulator: 2,025 SM = 21,789 SF.

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

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA		
4. PROJECT TITLE F-22 FLIGHT SIMULATOR	5. PROJECT NUMBER MUHJ033005	
12. SUPPLEMENTAL DATA: Design, Bid, Build		
a. Estimated Design Data:		
(1) Status:		
(a) Date Design Started		22-MAY-01
(b) Parametric Cost Estimates used to develop costs		YES
. (c) Percent Complete as of Jan 02		15 %
. (d) Date 35% Designed.		17-SEP-01
(e) Date Design Complete		02-SEP-02
(f) 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 -		
(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)		
(a) Production of Plans and Specifications		492
(b) All Other Design Costs		246
(c) Total		736
(d) Contract		636
(e) In-house		103
(4) Constructron Contract Award Date		02 Nov
(5) Construction Stan		03 Jan
(6) Construction Completron		04 Apr
. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.		
b Equipment associated with this project will be provided from other appropriations :		
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED
SIMULATORS	3010	2003
		COST (\$000) 36000

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA			4. PROJECT TITLE F-22 INFRASTRUCTURE AND UTILITIES	
5. PROGRAM ELEMENT 27219	6. CATEGORY CODE 113-321	7. PROJECT NUMBER MUHJ033006	8. PROJECT COST (\$000) 10.700	
9 COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
F-22 INFRASTRUCTURE AND UTILITIES	LS			6,593
AIRCRAFT PARKING APRON	SM	34,848	137	(4,774)
UPGRADE SEWER SYSTEM	LS			(1819)
SUPPORTING FACILITIES				3.082
FIRE PROTECTION	LS			(401)
ELECTRICAL DISTRIBUTION/COMM DUCTS	LS			(260)
DEMOLITION (PAVEMENTS)	SM	34.848	42	(1,464)
RAMP LIGHTING	LS			(100)
FLIGHTLINE SECURITY	LS			(250)
CONTAMINATED SOIL ABATEMENT	LS			(607)
SUBTOTAL				9.675
CONTINGENCY (5.0 %)				484
TOTAL CONTRACT COST				10,159
SUPERVISION, INSPECTION & OVERHEAD (5.7 %)				579
TOTAL REQUEST				10.738
TOTAL REQUEST (ROUNDED)				10.700
10. Description of Proposed Constructon: Upgrade Infrastructure and utility systems to Include: new pump station with reservoir and distribution systems, concrete encased communication duct banks, flightline security, upgrade electrical distribution grid, sewer main and lift station, airfield pavements, ramp lighting, landscaping, and est and abate contaminated soil In the way of constructron.				
11. REQUIREMENT: As required				
<u>PROJECT:</u> Add to, alter, and repair infrastructure and utility systems in support of the F-22 beddown. (New Mission)				
<u>REQUIREMENT:</u> Adequate utilities and infrastructure properly sized and configured are required to support the three phase F-22 beddown and associated MILCON projects in FY03/04. This beddown increases the demand on existing utility and infrastructure systems beyond current capacity. Upgrades, replacement and/or repairs to existing fire protection, power, water, sewage, pavements, and flightline security systems are required for the protection, maintenance and operations of the F-22 Weapons System. This project supports FY03 F-22 MILCON projects for the stand-up of the second operational squadron. Delivery of aircraft for the second squadron is scheduled to begin Feb 06. Personnel and equipment will arrive Jul 05 to prepare facilities for aircraft delivery and establish maintenance procedures. This project is required in the same fiscal year as the two FY03 companion MILCON projects to construct an F-22 Squadron Operations/AMU Facility and an F-22 Flight Simulator Facility.				
<u>CURRENT SITUATION:</u> Existing fire main and pump systems are not sized to protect mission aircraft in accordance with National Fire Protection Agency (NFPA) and life safety codes. Elements of the utility systems are old and unreliable. Since the MILCON projects are adjacent to IRP sites, upgrades, replacement and/or extension of utility systems will run through contaminated soil and will require testing and abatement. In addition, access roads and airfield pavements will be cut/trenched to support utility installations.				

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE. VIRGINIA		4. PROJECT TITLE F-22 INFRASTRUCTURE AND UTILITIES	
5. PROGRAM ELEMENT 27219	6. CATEGORY CODE 113-321	7. PROJECT NUMBER MUHJ033006	8. PROJECT COST (\$000) 10.700
<p>IMPACT IF NOT PROVIDED: Programmed companion F-22 MILCON projects will not be complete and useable and will impact F-22 operational and maintenance procedures. Existing utility systems, Infrastructure, flightline security systems (fences, entry control points and lighting). and fire protection systems will be undersized and unreliable to support sustained operations at the base. The base will be noncompliant in the areas of fire protection and flightline security criteria.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, *Facility Requirements*. All known alternatives were considered during the development of this project, No other option could meet the mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been prepared. Civil Engineer: Lt Col Drew Jeter. (757) 764-2025.</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 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION

LANGLEY AIR FORCE BASE, VIRGINIA

4. PROJECT TITLE 22 INFRASTRUCTURE AND UTILITIES	5. PROJECT NUMBER MUHJ033006
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12. SUPPLEMENTAL DATA: Design, Bid, Build

a. Estimated Design Data:

- (1) status:
 - (a) Date **Design Started** 09-MAY-01
 - (b) Parametric Cost Estimates used to develop costs YES
 - (c) Percent Complete as of Jan 02 15 %
 - (d) Date 35% Designed. 20-SEP-01
 - (e) Date **Design Complete** 02-SEP-02
 - (f) Energy Study/Life-Cycle analysis was/will be performed NO
- (2) Basis:
 - (a) Standard or **Definitive Design** - NO
 - (b) Where Design Was Most Recently Used -
- (3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)
 - (a) Production of Plans and **Specifications** 646
 - (b) All Other **Design Costs** 324
 - (c) Total 972
 - (d) Contract 637
 - (e) In-house 135
- (4) Construction Contract Award Date 02 Dec
- (5) Construction Start 03 Feb
- (6) Construction Completion 04 Oct

. Indicates **completion** of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% **design** to ensure valid scope and cost and executability.

. Equipment associated with this project will be provided from other appropriations: **NA**

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
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3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE. VIRGINIA	4. PROJECT TITLE F-22 SQUADRON OPERATIONS/AMU
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5. PROGRAM ELEMENT 27219	6. CATEGORY CODE 211-175	7. PROJECT NUMBER MUHJ033004	8. PROJECT COST (\$000) 20.800
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9. COST ESTIMATES

ITEM	U/	QUANTITY	UNIT COST	COST (\$000)
F-22 SQUADRON OPERATIONS/AMU	SI	7.481		10.542
SMALL ACFT MAINTENANCE DOCK	SI	4,250	1,296	(5,508)
SQUADRON OPERATIONS FACILITY	SI	2,641	1,424	(3,761)
FLIGHT KITCHEN	SI	590	2,068	(1,220)
ANTITERRORISM FORCE PROTECTION	LS			(53)
SUPPORTING FACILITIES				8,246
UTILITIES/PAVEMENTS/SITE IMPROVEMENTS	LS			(4,000)
RELOCATE AGE FUEL STATION/DEMOLITION	LS			(2,405)
SOIL/ASBESTOS REMEDIATION/ABATEMENT	LS			(813)
SPECIAL FOUNDATIONS/SECURITY	LS			(1,028)
SUBTOTAL				18,788
CONTINGENCY (5.0%)				939
TOTAL CONTRACT COST				19,727
SUPERVISION. INSPECTION & OVERHEAD (5.7 %)				1,124
TOTAL REQUEST				20,852
TOTAL REQUEST (ROUNDED)				20,800

10. Description of Proposed Construction: Special foundations and pilings, brick faced masonry block walls, standing seam metal roof, secure work areas, fire suppression/detection, environmental controls, contaminated soil remediation, asbestos abatement, demolish three facilities (4.201 SM). utilities, pavements, and relocate AGE fuel station. Includes minimum DoD interim force protection standards, Air Conditioning: 130 KW

11. REQUIREMENT: 7,481 SM ADEQUATE: SM SUBSTANDARD: SM

PROJECT: Construct a F-22 squadron operations/aircraft maintenance unit facility. (New Mission)

REQUIREMENT: A consolidated Squadron Operations and Maintenance facility is required to beddown the F-22 aircraft. The state-of-the-art technology and composite materials used to meet stealth mission criteria require specialized maintenance and repair procedures that must be accomplished in a secure, climate controlled work environment. This project supports personnel and equipment arrival in Jul 05 to prepare facility for aircraft delivery in Feb 06. Delivery preparations begin in Jul 05 to establish maintenance procedures, complete security accreditation, install data automation systems, computerized maintenance diagnostic equipment, furniture, phone and other appurtenances. The project site requires remediation of contaminated soil. The Flight Kitchen replaces the function currently operating in the hangar scheduled for demolition. Force protection will comply with DoD interim minimum standards.

CURRENT SITUATION: The base lacks adequate facilities to conduct squadron level maintenance and operations for the F-22 mission. Over the last ten years the Air Force has experienced significant restructuring of its combat wings. These changes shifted roles and responsibilities for maintaining and operating aircraft. The majority of aircraft maintenance was realigned from logistics to operations where the maintenance personnel work for the operational flying squadrons. Operational squadrons are required to work, train, deploy and fight as independent squadrons from home station. These changes have impacted the operational efficiency of fighter squadrons and will be severely exaggerated with the beddown of the F-22. Current squadron operations and

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA		4. PROJECT TITLE F-22 SQUADRON OPERATIONS/AMU	
5. PROGRAM ELEMENT 27219	6. CATEGORY CODE 211-175	7. PROJECT NUMBER MUHJ033004	8. PROJECT COST (\$000) 20.800

maintenance facilities are geographically separated, under-sized, in poor condition, and are not **configured** properly to support the high operations tempo demanded of fighter squadrons. The **existing hangars are over 70** years old and are also in very poor condition. Hangar doors do not operate properly, roofs leak, lead paint and asbestos are present, lighting is substandard, mechanical and electrical systems are inadequate, exterior masonry **walls** are deteriorating, and fire protection and **security** systems are non-existent. In addition to their poor **condition**, the hangars are inadequately sized and improperly **configured** to accommodate the wider F-22 without **violating** safety criteria. The hangars do not comply with required safety distance clearances of the current aircraft. The severity of the safety clearance **issue** is compounded with the introduction of the larger F-22 aircraft.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform essential maintenance and **repair** of F-22 aircraft. Operational squadrons will be **undersized** and geographically separated from their **maintenance** functions creating **operational deficiencies**. In **addition**, the potential to **compromise** security **increases** with a fragmented operation. Since there are no acceptable work **arounds**, high risk solutions will be implemented that will impact **ACC's** operational **capabilities** and violate safety **criteria**.

ADDITIONAL: The project meets the criteria and scope outlined in Air Force Handbook 32-1084, 'Facility **Requirements**'. A preliminary analysis of reasonable **options** was done and **indicates** only one option meets **operational** requirements. A certificate of exception has been prepared. Base Civil Engineer: Lt Col Drew Jeter, (757) 764-2025. Squadron Operations Facility: 2,641 SM = 28,417 SF; Small Aircraft Maintenance Dock: 4,250 SM = 45,730 SF; Flight Kitchen: 590 SM = 6,348 SF).

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

1. COMPONENT AIR FORCE		FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA			
4. PROJECT TITLE F-22 SQUADRON OPERATIONS/AMU		5. PROJECT NUMBER MUHJ033004	
12. SUPPLEMENTAL DATA:		Design, Bid, Build	
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			23-APR-01
(b) Parametric Cost Estimates used to develop costs			YES
(c) Percent Complete as of Jan 02			15 %
(d) Date 35% Designed.			18-SEP-01
(e) Date Design Complete			11 -SEP-02
(f) 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 -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			1,260
(b) All Other Design Costs			630
(c) Total			1,890
(d) Contract			1,575
(e) In-house			315
(4) Construction Contract Award Date			02 Dec
(5) Construction Start			03 Feb
(6) Construction Completion			04 Oct
. Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.			
j. Equipment associated with this project will be provided from other appropriations: N/A			

1. COMPONENT AIR FORCE		FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION				4. PROJECT TITLE CLASSIFIED MILCON PROJECT		
5. PROGRAM ELEMENT 34111		6. CATEGORY CODE 999-999	7. PROJECT NUMBER PAYZ030003	8. PROJECT COST (\$000) 1,993		
9. COST ESTIMATES						
ITEM				U/M	QUANTITY	COST (\$000)
CLASSIFIED MILCON PROJECT				LS		1,993
SUPPORTING FACILITIES						0
SUBTOTAL						1,993
TOTAL CONTRACT COST						1,993
TOTAL REQUEST						1,993
TOTAL REQUEST (ROUNDED)						1,993
10. Description of Proposed Construction:						
11. REQUIREMENT: LS ADEQUATE: IA SUBSTANDARD: LS						
PROJECT: AS required.						
REQUIREMENT: <u>Special</u> access required.						

1. COMPONENT AIR FORCE		FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION			4. PROJECT TITLE FORCE PROTECTION OF FACILITIES/UTILITIES/INFRASTRUCTURE			
5. PROGRAM ELEMENT 27596		6. CATEGORY CODE 721-315	7. PROJECT NUMBER HACC032001		8. PROJECT COST (\$000) 23,000	
9. COST ESTIMATES						
ITFM		U/M	QUANTITY	UNIT COST	COST (\$000)	
OPERATIONS/SUPPORT FACILITIES		LS			16,450	
DORMITORIES (120 RM)		EA	10	1,200,000	(12,000)	
DINING FACILITY		LS			(1200)	
HQ FACILITY		LS			(800)	
CIVIL ENGINEER FACILITY		LS			(800)	
TRANSPORTATION MAINTENANCE		LS			(850)	
FITNESS CENTER		LS			(800)	
SUPPORTING FACILITIES					4,100	
UTILITIES		LS			(3,200)	
PAVEMENTS		LS			(900)	
SUBTOTAL					20,550	
CONTINGENCY (5.0 %)					1,028	
TOTAL CONTRACT COST					21,578	
SUPERVISION, INSPECTION & OVERHEAD (6.5 %)					1,403	
TOTAL REQUEST					22,980	
TOTAL REQUEST (ROUNDED)					23,000	
10. Description of Proposed Construction: Construct pre-engineered facilities with associated electrical, water, sanitary and storm distribution systems, base roads, and parking.						
11. REQUIREMENT: As required						
<u>PROJECT:</u> Construct facilities with associated utilities and infrastructure. (Current Mission)						
<u>REQUIREMENT:</u> Provide adequate force protection for U.S. personnel and the facilities where they live and work. USCENTCOM OPORD 97-01A requires a 600' standoff distance from any inhabitable facility to the nearest boundary. It also requires an 80' separation between any two primary gathering facilities. As a result of the recent terrorist attacks on New York and the Pentagon, we have determined these vulnerabilities warrant immediate action to reduce the risk to personnel. Facilities are to be constructed within a secure area created when the host nation provided additional acreage for U.S. operations.						
<u>CURRENT SITUATION:</u> The existing compound is located on a 23 acre parcel designated by the host. This parcel is located directly adjacent to the perimeter security fence. Current stand-off distances from the perimeter fence average 200', well below the required 600' stand-off. In some cases, the stand-off distance is only 54'. In some cases, the vehicle maintenance area and operations compound are completely unprotected from blast effects. The small size of the compound has necessitated a distance between primary gathering facilities of less than the required 80' stand-off. In many situations living quarters are separated by less than 20' because of the confined compound. The host nation has recently provided U.S. forces with additional acreage, totalling 85 acres, to place operational and support facilities so they are within the prescribed secure and protected stand-off distances. The host has also constructed a perimeter fence with a secure entry control point.						
<u>IMPACT IF NOT PROVIDED:</u> The increased risk to personnel, facilities and equipment will remain high. Stand-off distances established to protect resources will not be met. Operations and support functions must continue						

1. COMPONENT AIR FORCE	FY 2003 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION / CLASSIFIED LOCATION		4. PROJECT TITLE FORCE PROTECTION OF FACILITIES/UTILITIES/INFRASTRUCTURE	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 721-315	7. PROJECT NUMBER HACC032001	8. PROJECT COST (\$000) 23,000

day-to-day operations in confined spaces.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1 084, 'Facility Requirements' and USCENCOM OPORD 97-01A. Base civil engineer: LtCol Davrd Nelson, (803) 8954352.

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 equipment.

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