

Department of the Air Force

Military Construction and Family Housing Program

Fiscal Year (FY) 2002 Amended Budget Submission

Justification Data Submitted to Congress June 2001

Г								
1. COMPONENT		FY 2002 MILITARY CON				TA	2. DATE	
AIR FORCE		(compu	iter gene	erated)				
3. INSTALLATION GRAND FORKS AIF		ATION BASE, NORTH DAKOTA			IECT TITLE SQOPS/AMU	J		
5. PROGRAM ELEI	MENT	6. CATEGORY CODE	7. PRO	JECT	NUMBER	8. PROJEC	T COST (\$000)	
41896		141-753	JF	SD993	500		7,800	
		9. COS	T ESTIM	ATES		· · · · ·		
	ľ	TEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
KC-135 SQUADRON		TIONS/AMU		SM	3,800	1,482	5,632	
SQUADRON OPE	ERATION	S FACILITY		SM	3,800	1,475		
AT/FP PHYSICAL	SECURI	TY MEASURES		SM	3,800	7		
SUPPORTING FAC	ILITIES						1,370	
UTILITIES				LS			(425)	
SITE IMPROVEM	ENTS			LS			(330)	
PAVEMENTS				LS			(390)	
ELEVATOR				ΕA	1	125,000	(125)	
COMMUNICATION	IS SUPP	ORT		LS			(100)	
SUBTOTAL							7,002	
CONTINGENCY (5.0%)						350	
TOTAL CONTRACT	COST						7,352	
SUPERVISION, INS	SPECTION	N &OVERHEAD (5.7 %)				419	
TOTAL REQUEST							7,771	
TOTAL REQUEST	(ROUNDEI	D)					7,800	
EQUIPMENT FROM	1 OTHER	APPROPRIATIONS					(500)	
prick veneer, sloped larking, utilities and	roof systen necessary	Construction: Two-story factors from the protection system support to include coming the support to the support	n, emerg municatio	ency g on line:	jenerator, elev s.	vator, site impr		
11. REQUIREMEN	T: 15,200	SM ADEQUATE: 11,40	0 SM S	UBST	ANDARD: 3,8	300 SM		
PROJECT: Construct	t a KC-13	35 Sq Ops/AMU facility.	(Current	Missio	n)			
<u>REQUIREMENT</u> : This project is required to consolidate Air Mobility Command operational squadrons by sollocating aircraft operators with aircraft maintainers. The consolidation relocates flyers and maintainers out of indersized and separated facilities into a functional and adequately sized structure to support the beddown of 26 additional KC-I 35s. All 48 KC-1 35s are already in place at Grand Forks AFB. Space is required for Ops/AMU nanagement support, briefing/debriefing, flight planning, training and testing, flying/ground safety, tool rooms, pench stock, mobility office, technical order/library, standardization/evaluation, life support, locker rooms, and scheduling. In addition, an elevator is required to comply with the Americans with Disabilities Act of 1990. This consolidation is consistent with the Air Mobility Command initiative to bring Sq Ops/AMU facilities up to minimum Air Force standards. These efficiencies are essential to maintain mission tasking rates in the Air Mobility Command.								
Preations at Grand FY96 , FY97, and FY nadequately sized, a re housed in portion unctions create frag	Forks AFE 98. The fo and not pr ns of aircr mented lir way from	e are not adequate facilit B. Three squadrons have burth squadron's operatio roperly configured to con aft hangars rather than v nes of communications a their duty location in an e ng.	been pr ns are c solidate vith their nd autho	ovidec onduct aircraf opera ority. A	I new facilities ted in facilities t operators ar tional counter ircrews and a	with MILCON which are sund maintainers parts. The wid wircraft maintain	Is funded in Ibstandard, S. Maintainers Iely scattered ners must	

1. COMPONENT		FY 2002 MILITARY CONSTRUCTION PROJECT DATA2. DATE						
AIR FORCE		(computer generated)						
	AND FORKS AIR FORCE BASE, NORTH DAKOTA 4. PROJECT TITLE KC-1 35 SQ OPS/AMU							
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. P	ROJECT NUMBER	8. PROJECT COST (\$000			
41896		141-753		JFSD993500		7,800		

IMPACTIFNOTPHOVIDED. Operations, maintenance, and support personnel will remain in undersized and physically separated buildings. Full implementation of the **more effective** objective wing squadron and adequate **beddown** of the KC-135s will not be possible. Essential squadron operations and logistics functions will continue to require additional work-arounds that will degrade mission performance.

<u>ADDITIONAL:</u> 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 (status quo, addition/alteration, and new construction) was done. It indicates new construction is the only option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exemption has been prepared. BASE CIVIL ENGINEER: LT COL SCHWARZ, (701) 747-4769. KC-135 Sq Ops/AMU: 3,800SM = 40,903SF

AIR FORCE		IILITARY CONSTRUCTION PF (computer generated)	ROJECT DATA	2. DATE				
3. INSTALLATION	AND LOCATION	(11 11 51 111)						
GRAND FORKS AIF	R FORCE BASE, NO	ORTH DAKOTA						
1. PROJECT TITLE				5. PROJECT NUMB	3ER			
(C-135 SQ OPS/AN	U			JFSD993500				
12. SUPPLEMEN	TAL DATA:		Desig	yn, Bid, Build				
a. Estimated	Design Data:			, ,,				
	Ū							
(1) Status:								
(a) Dat	te Design Started			01 -MAY-0				
(b) Par	ametric Cost Estir	nates used to develop cost	S	YE 100	ES			
* (c) Per	* (c) Percent Complete as of Jan 01							
• (d) Da	te 35% Designed.			03-MAY-0 09-OCT-0				
(e) Dat	(e) Date Design Complete							
(f) Ene	rgy Study/Life-Cyc	le analysis was/will be perfo	ormed	YE	ES			
(2) Basis:								
(a) Sta	ndard of Definitive	e Design -		YE	ΞS			
(b) Wh	ere Design Was N	lost Recently Used -		GRAND FORK	٢S			
(3) Total C	ost (c) = (a) + (b)	or (d) + (e):		(\$00				
(a) Pro	duction of Plans a	nd Specifications		30				
(b) All	Other Design Cos	ts		6	68			
(c) Tot	al			36	58			
(d) Co	ntract			26				
(e) In-ł	nouse			10				
(4) Constru	ction Contract Aw	ard Date		02 Fe				
(5) Constru	iction Start			02 A				
(6) Constru	ction Completion			04 Au	ug			
	mparable to tradition	ect Definition with Parametronal 35% design to ensure v		:				
b. Equipment asso appropriations:	ociated with this p	oject will be provided from	other					
EQUIPMEN		PROCURING APPROPRIATION	FISCAL YEA APPROPRIAT OR REQUES	TED COST				
EQUIPMENT FRO	OM OTHER	3400	2002	2 500				

1. COMPONENT AIR FORCE	FY2	002		RY CONS		ON PRO	OGRAN	1		2. DATE	Ξ
3. INSTALLATIO	N AND LOC	ATION		4. COMN	AND						A CONST
WRIGHT PATTE OHIO	RSON AIR	FORCE I	BASE,	AIR FOR	CE MAT	ERIEL	COMM	AND			INDEX 0.97
6. PERSONNEL	PER	MANENT			STUDEN	NTS		SU	PPC	ORTED	
STRENGTH	OFF	FNI	CIV	OFF	FNL	CIV	OF	F F	NI	CIV	TOTAL
a. As of 30 Sep (00 2,730	2,490	3,634	5				81 1	38	4,169	23,247
b. End FY 200	5 2,622	2,504	3,184					81 1	38	4,169	22,698
			7. II	VENTORY	/ DATA S	\$1000)					
a. Total Acreage		8,145	5								
b. Inventory Total		•								1.087.074	
c. Authorization Not Yet In Inventory:101,932d. Authorization Requested In this Program:24,850											
e. Authorization I	-	-	-	n: (FY2003	3)					21,000	
f. Planned in Nex	•	am Years	:							62,898	
a. Remaining Def	iciency:									175,000	-
h. Grand Total:	ctod in this	Drogram	EV2002							1.451.754	
8. Projects Reque CATEGORY		Fiografii.	F12002					CO	ST	DESIGN	STATUS
	ROJECT TI	TLE			SC	OPE		\$(00	00)	START	CMP
	L Special C	-	-		-	1,235	SM	\$3,48	50	TUR	N KEY
311-173 Con Ph 4	solidate Acq IB	uisition N	lanagem	ent Compl	ex,	8,500	SM	\$21,40	00	TUR	N KEY
							Tota	1 \$24,85	50		
9a. Future Projects	s: Included i	n the Foll	owing Pr	ogram: (F	Y2003)	Ν	lo Proje	ects			
9b. Future Project											
	solidated Fir			Station		2,450		\$9,5			
	r Graduate E solidate Mat			al Pacaa		12,097 5,813		\$8,0 \$21,0			
Faci			Πρυτατιοί	iai nesea	CII	5,015	5101	ψ21,0	00		
721-312 Dorr	nitory					144		\$9,7			
•	lace Steam I			a B, Ph 1			LS	\$11,2			
851-147 Repl	ace Base Er	ntrance (G	iate 1 B)			1	LS	\$3,4	00		
9c. Real Property	Maintenance	e Backlog	This In	stallation						112	
10. Mission or Ma control, and directi components; Aero Sensors, Air Vehic Air Force Security Center; an air base airlift flight with C-2	on of resear nautical Sys cles, Human Assistance e wing; Air F	ch, acqui tems Cen Effectiver Center; N	sition and iter; Air F ness, and lational <i>A</i>	d logistics Force Reso d Propulsio Aerospace	support f earch Lat on; Air Fo Intelligen	or air a poratory prce Ins pce Cer	nd space includ titute of iter; Na	ce weapo ing direc f Technol tional Air	ons torat logy rborr	systems a tes for Ma ; Air Force ne Operati	nd related terials, Museum; ons
11. Outstanding po		safety (OS	SHA) def	iciencies:							
a. Air pollution										0	
b. Water pollu	tion									0	
c. Occupationa	al Safety and	Health								0	

1. COMPONENT	FY 2002 MILITARY CON	ISTRUCT			τΔ Ι.	2. DATE		
AIR FORCE		ter gene				Z. DATE		
3. INSTALLATION AND LOC		-	-	ECT TITLE				
WRIGHT PATTERSON AIR F	-	A		PECIAL OPE	RATIONS INT	ELLIGENCE		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PRO	JECT	NUMBER	8. PROJECT	F COST (\$000)		
28019	28019 141-454 ZHTV003203							
	9. COST	ESTIMA	TES					
I'	TEM		U/M	QUANTITY	UNIT COST	COST (\$000)		
ADD/ALTER SPECIAL OPER	ATIONS INTELLIGENCE	FAC	LS			2,498		
ADDITION			SM	1,175	1,456	(1,711		
ALTERATIONS			SM	1,175	290	(341		
SCIF			SM	1,175	360	(423		
ANTITERRORISM/FORCE	PROTECTION		SM	1,175	20	(24		
SUPPORTING FACILITIES						625		
UTILITIES			LS			(325		
PAVEMENTS			LS			(200		
SITE IMPROVEMENTS			LS			(100		
SUBTOTAL						3,123		
CONTINGENCY (5.0%)						156		
TOTAL CONTRACT COST						3,279		
SUPERVISION, INSPECTION	& OVERHEAD (5.7 %)					187		
TOTAL REQUEST						3,466		
TOTAL REQUEST (ROUNDED	C)					3,450		
10. Description of Proposed C natch existing construction. In eleconference area, emergence systems. Comply with DoD int Air Conditioning: 183 KW	cludes raised flooring, se cy power, and alter existi	ecure con ng facility	mpartr / to re	mented inform	ation facility (SCIF), video		
11. REQUIREMENT: 3,525 S			OT A N		CM			
PROJECT: Add/alter special o		•		,				
<u>REQUIREMENT</u> : A flexible and secure facility is required for housing signal exploitation, analytical sngineering/administrative functions to support classified intelligence analysis. Capability is needed to support state-of-the-art automated data processing. All areas must be individually secured and configured for maximum 'lexibility to meet the requirements of the continuously evolving, highly specialized, highly automated mission. Continuity with an existing classified SCIF mission is critical to mission operations. Contingency power and -IVAC capability must be provided due to direct real-time support with classified field operations. Comply with DoD interim minimum force protection construction standard.								
CURRENT SITUATION: The nission tasking. Existing facili capacity by over 75%. Overcro in equipment environment not equipment acquisitions support he external facilities. Continue paper information flow is sever Signals Exploitation mission co- mpedes mission operations an	existing mission facilities ties are severely overcrow owding has required perso suitable for required inte ting critical mission taskin d growth will severely ov rely impeded between the ontinues to force other NA	can not a wded with onnel to illigence g will als ercrowd e multiple AIC missi	n a cu be hou engine o forc the ex e non- ons ir	arrent occupan used in a Sigr eering and an e personnel o ternal SCIF fa contiguous se nto facilities ar	icy that exceed nals Processin alysis. Future ut of the signa acilities securit cure spaces. Ind overcrowdir	ds design g Lab which is programmed als Lab and into ry requirements, Growth in the ng sharply		

1. COMPONENT AIR FORCE		FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)						
3. INSTALLATION WRIGHT PATTERS		DCATION 4. PROJECT TITLE FORCE BASE, OHIO ADAL SPECIAL OPERATIONS INTELLIG FACILITY						
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. P	ROJECT NUMBER	8. PROJECT COST (\$000			
28019		141-454		ZHTV003203		3,450		
been forced to consolidate into less than standard areas with negative operational impacts to make room for								

external facility overflow space. This classified 24 hour/7 days-a-week mission lacks emergency power and critical contingency chiller capacity to maintain required real-time support to operational missions in the field. Power outages longer than 3 hours cuts support to and substantially degrades several operational missions.

<u>IMPACT IF NOT PROVIDED</u>: The mission will be critically impaired by overcrowding and fragmented mission operations. Deficiencies severely curtailing mission effectiveness will worsen as mission growth continues. Loss of critical interaction between analysts isolated in separate secure locations will degrade the quality of mission products and impair mission production capability. Secure communication links and transportation of classified material between secure locations will substantially increase operating cost and compromises security practices. The severe overcrowding will critically limit the ability to process highly classified material and creates a high risk of inadvertent diclosure.

<u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Handbook 32-I 084, "Facility Requirements." 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 certificate of exception has been prepared. Base Civil Engineer: Col Jeffrey Charles, (937) 257-6214. Addition: 1,175 SM = 12,643 SF; Alterations: 1 ,175 SM = 12,643 SF. Design Build - Design Cost (4% of Subtotal Cost): \$125,000.

FY 2002 MILITARY CONSTRUCTION PRO	DJECT DATA	2. DATE		
(computer generated)				
AND LOCATION				
SON AIR FORCE BASE, OHIO				
	5	. PROJECT NUMBER		
PERATIONS INTELLIGENCE FACILITY		ZHTV003203		
NTAL DATA:	Desig	gn Build		
d Design Data:				
	S			
		NO		
here Design Was Most Recently Used -				
n Allowance		138		
ruction Contract Award Date		01 Nov		
ruction Start		02 Jan		
(6) Construction Completion				
/ Study/Life-Cycle analysis was/will be performed	d	YES		
sociated with this project will be provided from o	ther			
	(computer generated) AND LOCATION SON AIR FORCE BASE, OHIO PERATIONS INTELLIGENCE FACILITY NTAL DATA: d Design Data: t to be accomplished by design-build procedure andard of Definitive Design - here Design Was Most Recently Used - h Allowance ruction Contract Award Date ruction Start ruction Completion y Study/Life-Cycle analysis was/will be performe	AND LOCATION SON AIR FORCE BASE, OHIO PERATIONS INTELLIGENCE FACILITY NTAL DATA: d Design Data: d Design Data: t to be accomplished by design-build procedures andard of Definitive Design - here Design Was Most Recently Used - h Allowance ruction Contract Award Date ruction Start ruction Completion y Study/Life-Cycle analysis was/will be performed sociated with this project will be provided from other		

	C V	2002 MILITARY CONSTR			тл	2. DATE	
1. COMPONENT AIR FORCE	FY	(computer			IA	2. DATE	
3. INSTALLATION WRIGHT PATTERS			4. PROJECT TITLE CONSOLIDATE ACQUISITION MANAGEMENT				
			COMPLE	EX, PH-4B		_	
5. PROGRAM ELE	MENT 6.	CATEGORY CODE 7.	PROJECT	NUMBER	8. PROJEC	T COST (\$000)	
72976		311-173	ZHTV993	203		21,400	
		9. COST E	STIMATES		UNIT	COST	
	ITEN	l	U/M	QUANTITY	COST	(\$000)	
CONSOLIDATE AC	QUISITION M	GT COMPLEX, PH-4B	SM	8,500		15,581	
			SM	8,500	1,815		
ANTITERRORISM		-	SM	8,500	18		
SUPPORTING FAC			-	-,		3,657	
UTILITIES			LS			(700)	
COMMUNICATIO	NS SUPPOR	т	LS			(100)	
SITE WORK/PA	/EMENTS		LS			(900)	
DEMOLITION			SM	9,783	200	(1,957)	
SUBTOTAL						19,237	
CONTINGENCY (5.0%)					962	
TOTAL CONTRACT	COST					20,199	
SUPERVISION, INS	SPECTION &	OVERHEAD (5.7 %)				1,151	
TOTAL REQUEST						21,350	
TOTAL REQUEST	(ROUNDED)					21,400	
EQUIPMENT FROM	I OTHER API	PROPRIATIONS				(5,330)	
system, and secure	space. Includ I necessary su struction stand	struction: Reinforced condes administration space, upport. Demolish one facidards.	special pu	rpose space,	miscellaneou	s infrastructure	
11. REQUIREMEN	T: 115,104 S	M ADEQUATE: 60,834	SM SUBS	TANDARD: 3	4,675 SM		
PROJECT: Consolid	date Acquisitio	n Management Complex	, Phase-48	B. (Current Mi	ission)		
Center (ASC). ASC bersonnel support, a SPOs accomplish th acquire, field and su o align the Center a SPOs require mode	tion activities of must provide and system in is mission by ustain superior along mission rn facilities eq	e, modern, flexible office of Aircraft System Program superior mission area ex tegration support for assist working as a team with the Aerospace Control and areas to conform with Air uipped with the latest infor- ne F-16 SPO with the oth	m Offices (pertise, ac gned progr he Air Force Strike Syster r Force Doo prmation sy	SPOs) within quisition mana ams within the aircraft users ems. ASC has ctrine Docume stems technol	the Aeronauti agement, tech e Aircraft SPC s and industry s led strategic ent (AFDD-1). logy for maxir	ical Systems anical support, Ds. The Aircraft to develop, planning efforts The Aircraft num efficiency.	

orce protection construction standards.

<u>CURRENT SITUATION:</u> Most ASC facilities to be upgraded were constructed between 1928-1944 and later nodified to accommodate the current mission. Some buildings are structurally sound but have many deficiencies ncluding energy inefficient heating, cooling, and lighting systems, roof leaks, and asbestos ceilings and nsulations. These buildings have not adapted well to modern engineering requirements. Numerous interior vartitions contribute to inefficient layouts which waste floor space and hamper work force efficiency. Currently, he Aircraft SPOs are located in nine separate facilities. The present layout of facility utilities inhibit vital individual ind project team interaction. ASC is consolidating the Aircraft SPOs within the Acquisition Management complex in three increments: The first increment (Phase-3) was activated in FY97 with the B-I, and B-2 SPOs;

1. COMPONENT		FY 2002 MILITARY CON	ISTR	UCTION PROJECT DA	TA	2. DATE
AIR FORCE		(compu				
	3. INSTALLATION AND LOCATION 4. PROJECT TITLE WRIGHT PATTERSON AIR FORCE BASE, OHIO CONSOLIDATE ACQUISITION M COMPLEX, PH-4B COMPLEX, PH-4B					
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. P	ROJECT NUMBER	8. PROJECT COST (\$000	
72976		311-173		ZHTV993203		21,400

the second increment (Phase-4A) incorporates the F-22, F-I 17, F-I 5 SPOs, and the Joint Strike Fighter Support Office in FY01.

<u>IMPACT IF NOT PROVIDED</u>: The Aircraft SPO consolidation supports the Center's alignment with ACC, USAF/XO, SAF/AQ, and Air Force Doctrine focusing on the Global Power Mission Area. Without this project, the Aircraft SPOs will be severely restricted in their ability to support highly technical programs to develop, acquire, field, and sustain superior Air Control and Strike Systems. Also, complex weapon system integration will be increasingly difficult to attain. Finally, a fragmented workforce will continue to operate in inadequate facilities resulting in decreased operating efficiency and unnecessary operating costs. ASC will retain the burden of supporting inefficient, maintenance intensive excess facilities.

<u>ADDITIONAL:</u> 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 operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Base Civil Engineer: Mr. Gary Johnson, (937) 257-6214. Consolidate Acquisition Management Complex: 8,500SM = 91,460SF. Design Build - Design Cost (4% of Subtotal Cost): \$770,000.

COMPONENT	FY 2002 MIL	ITARY CONSTRUCTION PF	ROJECT DATA		2. DATE			
AIR FORCE		(computer generated)						
3. INSTALLATION	AND LOCATION							
WRIGHT PATTERS	SON AIR FORCE BASE	E, OHIO						
1. PROJECT TITLE					ROJECT NUMBER			
CONSOLIDATE AC	QUISITION MANAGEN	IENT COMPLEX, PH-4B		Z	2HTV993203			
12. SUPPLEME	NTAL DATA:		De	esign	Build			
a. Estimated	d Design Data:							
(1) Projec	t to be accomplished	by design-build procedur	es					
(2) Basis:								
(a) Sta	(a) Standard of Definitive Design -							
(b) WI	here Design Was Mo	ost Recently Used -						
(3) Desigr	Allowance				856			
(4) Constr	uction Contract Awa	rd Date			01 Dec			
(5) Constr	(5) Construction Start							
(6) Constr	uction Completion				03 Nov			
(7) Energy	v Study/Life-Cycle an	alysis was/will be perform	ed		YES			
b. Equipment ass appropriations:	sociated with this pro	ject will be provided from						
EQUIPMEI NOMENCLAT		PROCURING APPROPRIATION	FISCAL YE APPROPRIA OR REQUES	TED	COST (\$000)			
PREWIRED WO	RK STSTIONS	3400	200		3000			
FURNITURE		3460	200		1000			
COMM CABLE/		3080	200		150			
COMM SUPPOR	RTEQUIPMENT	3400	200)4	1180			
1								

1. COMPONENT AIR FORCE	FY2	002		RY CONS uter gener		ON PROC	GRAM		2. DATE	Ē
3. INSTALLATION A	ND LOC	ATION		4. COMM	IAND				5. AREA	A CONST
ALTUS AIR FORCE	E BASE, O	OKLAHOI	AN	AIR EDU	CATION	AND TR	AINING		COST	INDEX
				COMMA	ND				(0.96
6. PERSONNEL	PER	MANENT			STUDE	NTS		SUPP	ORTED	
STRENGTH	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	TOTAL
a. As of 30 Sep 00	315	1,346	1,694		46		147	152		3,700
b. End FY 2005	319	1,365	1,737		44		147	152		3,764
			7. II	NVENTOR	Y DATA S	\$1000)				
a. Total Acreage		5,982	2							
b. Inventory Totals a	as of: 30	Sep 00							340.282	
	c. Authorization Not Yet In Inventory: 19,768									
d. Authorization Requested In this Program: 20,200										
e. Authorization Included In Following Program: (FY2003) 0										
f. Planned in Next Fo	•	am Years							12,100	
a. Remainina Deficie	ency:								90,497	- ſ
h. Grand Total: 8. Projects Requeste	dia thia	Drogrom	EVana						482,847	
CATEGORY	a in this	Program:	F 12002					COST	DESIGN	STATUS
	JECT TI	TLE			SC	OPE		\$(000)	START	СМР
111-111 Repair	Airfield P	avements	, Ph 1			11	_S \$	20,200	AUG 01	APR 01
							Total \$	20,200		
9a. Future Projects: I	ncluded i	n the Foll	owina P	rogram: (F	Y2003)	No	Projects			
9b. Future Projects:										
-	••••••	neer Com		r rouro		9,551 \$	SM	\$12,100		
9c. Real Property Ma	aintenance	e Backlog	This In	stallation					66	
10. Mission or Major										
KC-135 air refueling					l C-5, C-1	17, C-141	and KC-	135 airc	rews in the	Air Force.
• ·	11. Outstanding pollution and safety (OSHA) deficiencies:									
a. Air pollution 0										
b. Water pollution									0	
c. Occupational S	Safety and	d Health							0	
d. Other Environr	mental								0	

	2 MILITARY CONSTR				TA 2	2. DATE				
AIR FORCE		ter gene								
3. INSTALLATION ANE ALTUS AIR FORCE BASE,			JECT EPAIR		AVEMENTS, F	PH1				
5. PROGRAM ELEMENT	 CATEGORY CODE 	7. PR	OJEC	T NUMBER	8. PROJECT	COST (\$000)				
85976	111-111	AGG	N9830	005P1		20,200				
	9. COS	Γ ESTIM	ATES			-				
	ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)				
RUNWAY			LS			18,020				
SUPPORTING FACILITIES						180				
UTILITIES			LS			(180				
PAVEMENTS			LS			(
SITE IMPROVEMENTS			LS			(
SUBTOTAL						18,200				
CONTINGENCY (5.0%)						910				
TOTAL CONTRACT COST						19,110				
SUPERVISION, INSPECTION	N & OVERHEAD (5.7 %))				1,089				
TOTAL REQUEST						20,199				
TOTAL REQUEST (ROUNDE	ED)					20,200				
iaxiway edge lighting and three 11. REQUIREMENT: SM / <u>PROJECT:</u> Repair asphalt sl asphalt taxiway areas includir supporting conduit. Install ILS <u>REQUIREMENT:</u> High qual conducted by student pilots in required to ensure proper dra to aircraft engines and enhan	 10. Description of Proposed Construction: Remove and dispose of existing asphalt shoulders and stressed pavement on Runway 17R/35L and overrun areas, and taxiway areas including shoulders. Replace runway and taxiway edge lighting and threshold lighting. Install ILS support system pads, conduit, and infrastructure. 11. REQUIREMENT: SM ADEQUATE: SM SUBSTANDARD: SM <u>PROJECT:</u> Repair asphalt shoulders and stressed pavement at main runway 17R/35L, overrun areas, and asphalt taxiway areas including shoulders. Replace runway and taxiway edge lighting, threshold lighting and supporting conduit. Install ILS support. <u>REQUIREMENT:</u> High quality airfield pavements are required to continue the large number of training flights conducted by student pilots in support of the pilot training mission. Repair of the existing runway and taxiways are required to ensure proper drainage, reduce the potential for expensive mission impact from foreign object damage to aircraft engines and enhance training by providing a quality airfield environment. Obsolete runway and taxiway edge lighting, threshold lighting and conduit needs to be replaced. Provide ILS system pads, conduit, and 									
<u>CURRENT SITUATION:</u> Student pilots fly approximately 40 sorties per day on this rapidly deteriorating runway. Asphalt shoulders on the main runway, Taxiways Kilo 1, Charlie, Foxtrot, Delta, and Echo 1 have outlived their designed useful life expectancy. They were constructed in 1956 and have never undergone a major repair. These loadbearing pavements and shoulders are severely cracked and deteriorated and require constant maintenance to prevent froeign object damage to aircraft engines. Poor drainage causes ponding of water on several areas of the airfield, resulting in accerlerated damage and deterioration of the asphalt. In addition, the slurry seal placed on the shoulders several years ago is starting to come up in chunks. In 1987, a runway evaluation was conducted resulting in a failed rating for many features of the primary runway. In 1996, the Corps of Engineers evaluated the airfield and also failed many areas on the airfield. In 1998, the airfield was evaluated by AFCESA and portions of he airfield failed the evaluation. AFCESA further stated that deterioration of the airfield had expanded. Of the 12 million square feet of airfield pavement at Altus AFB, 22% of the existing pavement has been rated poor to failed with 18% being in the failed category. Only 7% was rated fair. The runway edge lights are out of alignment and are approaching the end of their useful life expectancy and will need to be replaced in order to keep within egulation standards. The edge lighting on Taxiways Kilo 1, Charlie, Foxtrot, Delta, and Echo 1 were constructed n the 1950s, therefore, they are obsolete and have to be replaced in order to keep with regulation standards. nstallation of an ILS at the outside runway is needed to minimize flying training impacts. This project provides										
D FORM 1391. Dec 76	Previous	م مانا م		- 1 -1-1	De	ae No.				

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA					2. DATE			
AIR FORCE		(computer generated)							
3. INSTALLATION ALTUS AIR FORCE	E BASE, C	OKLAHOMA					AVEMENTS,		
5. PROGRAM EL	EMENT	CATEGORY	CODE	7.	PROJECT	NUMBER	8. PROJE	CT COST	(\$000)
85976		111-111		Α	GGN98300	05P1		20,200	

ILS support to include equipment pads, conduit, and infrastructure.

<u>IMPACT IF NOT PROVIDED</u>: Failure to accomplish this project will result in the continually increasing probability of foreign object damage to aircraft. Maintenance costs to repair foreign object damage will continue to escalate. Student pilots will be subjected to possible hazardous conditions and denied a quality airfield training experience. Airfield regulations will not be followed due to distances of the runway and **taxiway** edge lighting and threshold lighting. All of these navigational lighting systems are outdated and obsolete. This will continue to impact the ability to repair the systems when parts cannot be found for these obsolete systems.

<u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." 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 certificate of exemption has been prepared and approved. Base CE POC: LTC Rafferty, (580) 481-6530, Repair Airfield Pavements Phase I.

2

REPAIR AIRFIELD PAVEMENTS, PHI AGGN983005P1 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (1) Status: (a) Date Design Started 15-AUG (b) Parametric Cost Estimates used to develop costs Y . (c) Percent Complete as of Jan 01 08-OCT- . (d) Date 35% Designed. 08-OCT- (e) Date Design Complete 28-APR- . (f) Energy Study/Life-Cycle analysis was/will be performed 28 . (a) Standard of Definitive Design - 1 . (b) Where Design Was Most Recently Used -	1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT (computer generated)	DATA	2. DATE
I. PROJECT TITLE 5. PROJECT NUM REPAIR AIRFIELD PAVEMENTS, PHI AGGN983005P1 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 15-AUG (b) Parametric Cost Estimates used to develop costs Y . (c) Percent Complete as of Jan 01 08-OCT . (d) Date 35% Designed. 08-OCT (e) Date Design Complete 28-APR- (f) Energy Study/Life-Cycle analysis was/will be performed 28 (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$00 (a) Production of Plans and Specifications 1,2 (b) All Other Design Costs 6 (c) Total 1,8 (d) Contract 1,5 (e) In-house 3 (4) Construction Contract Award Date 02 (5) Construction Start 02 (6) Construction Completion 04 (a) Expendence 3 (b) All Other Design Costs 3 (c) Total 1,5 (b) Construction Contract Award Date	3. INSTALLATION	AND LOCATION		
XEEPAIR AIRFIELD PAVEMENTS, PHI AGGN983005P1 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 15-AUG (b) Parametric Cost Estimates used to develop costs Y . (c) Percent Complete as of Jan 01 08-OCT . (d) Date 35% Designed. 08-OCT (e) Date Design Complete 28-APR . (f) Energy Study/Life-Cycle analysis was/will be performed 28 (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$00 (a) Production of Plans and Specifications 1,2 (b) All Other Design Costs 6 (c) Total 1,5 (d) Contract 1,5 (e) In-house 3 (4) Construction Contract Award Date 02 (5) Construction Completion 04 S (6) Construction Completion 04 S (e) Construction Completion 04 S	ALTUS AIR FORCE	BASE, OKLAHOMA		
12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 15-AUG (b) Parametric Cost Estimates used to develop costs Y (c) Percent Complete as of Jan 01 08-OCT- (e) Date Design Complete 28-APR- (f) Energy Study/Life-Cycle analysis was/will be performed 28 (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (5) (c) Total Cost (c) = (a) + (b) or(d) + (e): (\$00 (a) Production of Plans and Specifications 1.2 (b) All Other Design Costs 6 (c) Total 1.5 (d) Contract 1.5 (e) In-house 3 (4) Construction Contract Award Date 02 (5) Construction Start 02 (6) Construction Completion 04 S • Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	I. PROJECT TITLE			5. PROJECT NUMBE
 a. Estimated Design Data: (1) Status: (a) Date Design Started (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (f) Construction Completion (g) Construction Completion (h) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability. 	REPAIR AIRFIELD	PAVEMENTS, PHI		AGGN983005P1
(1) Status: (a) Date Design Started 15-AUG (b) Parametric Cost Estimates used to develop costs Y . (c) Percent Complete as of Jan 01 08-OCT. . (d) Date 35% Designed. 08-OCT. (e) Date Design Complete 28-APR. (f) Energy Study/Life-Cycle analysis was/will be performed 28 (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$00 (a) Production of Plans and Specifications 1,2 (b) All Other Design Costs 6 (c) Total 1,8 (d) Contract 1,5 (e) In-house 3 (4) Construction Contract Award Date 02 (5) Construction Start 02 \$ (6) Construction Completion 04 \$ • Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	12. SUPPLEMEN	ITAL DATA:	Desig	n, Bid, Build
(a) Date Design Started15-AUG(b) Parametric Cost Estimates used to develop costsY. (c) Percent Complete as of Jan 0108-OCT-(d) Date 35% Designed.08-OCT-(e) Date Design Complete28-APR-(f) Energy Study/Life-Cycle analysis was/will be performed28-APR-(2) Basis:(a) Standard of Definitive Design -(b) Where Design Was Most Recently Used -(b) Where Design Was Most Recently Used -(3) Total Cost (c) = (a) + (b) or(d) + (e):(\$00(a) Production of Plans and Specifications1,2(b) All Other Design Costs6(c) Total1,8(d) Contract1,5(e) In-house3(4) Construction Contract Award Date02(5) Construction Start02(6) Construction Completion04 S• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	a. Estimated	Design Data:		
(b) Parametric Cost Estimates used to develop costs Y . (c) Percent Complete as of Jan 01 08-OCT- . (d) Date 35% Designed. 08-OCT- (e) Date Design Complete 28-APR- (f) Energy Study/Life-Cycle analysis was/will be performed 28 (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$00 (a) Production of Plans and Specifications 1,2 (b) All Other Design Costs 6 (c) Total 1,8 (d) Contract 1,5 (e) In-house 3 (4) Construction Contract Award Date 02 (5) Construction Start 02 5 (6) Construction Completion 04 5 • Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	(1) Status:			
 (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$00 (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (5) Construction Start (6) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability. 	(a) Da	te Design Started		15-AUG-01
 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (b) All Other Design Costs (c) Total (d) Contract (e) In-house (f) Construction Completion (f) Construction Completion (f) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability. 	(b) Pa	rametric Cost Estimates used to develop costs		YES
(e) Date Design Complete 28-APR- (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications 1,2 (b) All Other Design Costs 6 (c) Total 1,8 (d) Contract 1,5 (e) In-house 3 (4) Construction Contract Award Date 02 (5) Construction Start 02 \$ (6) Construction Completion 04 \$ • Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	• (c) Pe	rcent Complete as of Jan 01		1 %
(f) Energy Study/Life-Cycle analysis was/will be performed(2) Basis:(a) Standard of Definitive Design -(b) Where Design Was Most Recently Used -(3) Total Cost (c) = (a) + (b) or(d) + (e):(a) Production of Plans and Specifications(b) All Other Design Costs(c) Total(d) Contract(e) In-house(f) Construction Contract Award Date(f) Construction Completion(f) Construction Completion(f) Construction Completion(f) Construction of Project Definition with Parametric Cost Estimatewhich is comparable to traditional 35% design to ensure valid scope and cost and executability.	• (d) Da	te 35% Designed.		08-OCT-01
 (i) Energy olddy/Ene Oyde analysis was will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$00 (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (5) Construction Start (6) Construction Completion (6) Construction Completion (7) Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability. 	(e) Da	te Design Complete		28-APR-02
(a) Standard of Definitive Design - (b) Where Design Was Most Recently Used -(3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications(b) All Other Design Costs(c) Total(d) Contract(e) In-house(f) Construction Contract Award Date(b) Construction Start(c) Construction Completion(c) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	(f) Ene	rgy Study/Life-Cycle analysis was/will be performed		NC
(b) Where Design Was Most Recently Used -(3) Total Cost (c) = (a) + (b) or(d) + (e):(\$00(a) Production of Plans and Specifications1,2(b) All Other Design Costs6(c) Total1,8(d) Contract1,5(e) In-house3(4) Construction Contract Award Date02(5) Construction Start02(6) Construction Completion04• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	(2) Basis:			
(3) Total Cost (c) = (a) + (b) or(d) + (e):(\$00(a) Production of Plans and Specifications1,2(b) All Other Design Costs6(c) Total1,8(d) Contract1,5(e) In-house3(4) Construction Contract Award Date02(5) Construction Start02(6) Construction Completion04• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	(a) Sta	ndard of Definitive Design -		NC
(a) Production of Plans and Specifications1,2(b) All Other Design Costs6(c) Total1,8(d) Contract1,5(e) In-house3(4) Construction Contract Award Date02(5) Construction Start02 \$(6) Construction Completion04 \$• 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) Wh	ere Design Was Most Recently Used -		
(b) All Other Design Costs6(c) Total1,8(d) Contract1,5(e) In-house3(4) Construction Contract Award Date02(5) Construction Start02 \$(6) Construction Completion04 \$• 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) Total C	Cost (c) = (a) + (b) or(d) + (e):		(\$000)
(c) Total1,8(d) Contract1,5(e) In-house3(4) Construction Contract Award Date02(5) Construction Start02 \$(6) Construction Completion04 \$• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	(a) Pro	duction of Plans and Specifications		1,212
(d) Contract1,5(e) In-house3(4) Construction Contract Award Date02(5) Construction Start02(6) Construction Completion04• 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) All	Other Design Costs		606
(a) Contract3(b) In-house3(c) Construction Contract Award Date02(c) Construction Start02(c) Construction Start02(c) Construction Completion04(c) Construction Completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	(c) Tot	al		1,818
(4) Construction Contract Award Date02(5) Construction Start02 \$(6) Construction Completion04 \$• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.	(d) Co	ntract		1,515
 (4) Construction Contract Award Date (5) Construction Start (6) Construction Completion (7) Output to the end of the e	(e) In-	house		303
 (6) Construction Completion (6) Construction Completion 04 S Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability. 	(4) Constru	uction Contract Award Date		02 Jul
 Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability. 	(5) Constru	uction Start		02 Sep
which is comparable to traditional 35% design to ensure valid scope and cost and executability.	(6) Constru	uction Completion		04 Sep
b. Equipment associated with this project will be provided from other	which is co	mparable to traditional 35% design to ensure valid sc		
appropriations: N/A				

1. COMPONENT AIR FORCE	FY2002 MILITARY CONSTRUCTION PROGRAM 2. DATE (computer generated)							Ē		
3. INSTALLATION AND LOCATION 4. COMMAND TINKER AIR FORCE BASE, OKLAHOMA AIR FORCE MATERIEL COMMAND								5. AREA CONST COST INDEX 1.44		
6. PERSONNEL	PERMANENT STUDENTS SUPPORTED									
STRENGTH									TOTAL	
a.Asof 30 Sep 00										30,234
b. End FY 2005	1,107	4,898	2,916					851	620	30,392
			7. ⊪	VENTOR	Y DATA	\$(000)				
a. Total Acreage		4,886	;							
b. Inventory Totals	as of: 30	Sep 00							893.851	
c. Authorization Not		•							66,942	
d. Authorization Re	quested In	this Prog	gram:						10,200	
e. Authorization Inc		-	-	(FY200	3)				0	
f. Planned in Next F	0	am Years	:						61,670	
q. Remainina Deficiency: 796,225									-	
Ih. Grand Total:									1,828,888	
8. Projects Requested in this Program: FY2002 CATECORY COST DESIGN STATUS										
								START	CMP	
7721-312 Dormitory 144 RM \$10,200									N KEY	
Total \$10,200										
0. Euturo Projecto:	Included i	n tha Fall	owing P	rogrom: (F	-V2003)	N				
9a. Future Projects:					12003)		lo Projects			
9b. Future Projects: 141-764 Conso	lidate Inte					2,726	SM	\$7,400		
	lidate Soft	-		-		6,690		\$13,500		
	Iter Aircraf			onity		1	LS	\$4,000		
	Depot Plati					1		\$11,200		
			Squadroi	n Operatio	ns	3,400		\$9,700		
i '21-312 Dormit	lory					120	RM	\$8,014		
97 97										
10. Mission or Major Functions: Oklahoma City Air Logistics Center which is responsible for logistics management , support, and depot-level maintenance, repair and overhaul of B-I, B-2, B-52, KC-I 35 and E-3 aircraft and aircraft engines; an air base wing; an Air Combat Command air control wing with four E-3 airborne air control squadrons supporting 24 E-3 aircraft; an Air Force Reserve Command air refueling wing with one KC-I 35 squadron ; an Air Combat Communications group ; and an enaineerina installation wing.										
1 1. Outstanding poll						<u>, anu a</u>		1110 111518	<u>nation_</u> wing	4
a. Air pollution		salety (US	ue (ארוכ	nciencies:					61 000	
-	n								61,900	
b. Water pollutio									4,750	
c. Occupational	-	I Health							0	
d. Other Environ	mental								٥	

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCT (computer ge			A	2. DATE
3. INSTALLATION TINKER AIR FORC	N AND LOCATION 4. P E BASE, OKLAHOMA	ROJECT DORMIT			
5. PROGRAM EL	EMENT 6. CATEGORY CODE 7. F	ROJEC	T NUMBER	8. PROJEC	T COST (\$000)
72896	721-312 W	/WYK02	3002		10.200
	9. COST EST I	MATES			-
	ITFM	U/N	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (144	RM)	RM	144		7,09
DORMITORY		SM	4,750	1,480	(7.03
ANTITERRORISM	I FORCE PROTECTION	SM	4.750	14	
SUPPORTING FAC	CILITIES				2,055
UTILITIES/PAVEI	MENTS	LS			(78)
SITE IMPROVEN		LS			(150
STEAM UPGRAD	-	LS			(63)
ELECTRIC UPG		LS			(30
GAS AND WATE		LS			(7)
SEWER UPGRA	JES	LS			(12)
					9,152
CONTINGENCY (r	45
TOTAL CONTRACT SUPERVISION, IN	COST SPECTION 8 OVERHEAD (5.7 %)				9,609 548
OTAL REQUEST					10,157
OTAL REQUEST	(ROUNDED)				10,200
labs, masonry wall		om modu	ules, laundry fa	cility, storage	, lounge areas,
11. REQUIREMEN	T: 1,489 RM ADEQUATE: 1,044 RM \$	SUBSTA	NDARD: RM		
PROJECT: Constru	ct a dormitory. (Current Mission)				
conducive to their p providing some deg	A major Air Force objective provides una roper rest, relaxation and personal well-b ree of individual privacy are essential to t portant jobs these people must perform. O d.	eing. Pro	perly designed essful accompli	l and furnishe shment of the	ed quarters e increasingly
	ONL As welf ad her the Air Espera Demoits				

<u>CURRENT SITUATION:</u> As verified by the Air Force Dormitory Master Plan, the base has insufficient facilities to adequately accomodate permanent party unaccompanied enlisted personnel required to live on-base per Air Force policy.

<u>MPACT IF NOT PROVIDED</u>: Adequate living quarters will continue to be unavailable and result in degradation of **norale**, productivity, and career satisfaction for unaccompanied enlisted personnel. Lowered morale will **:ontribute** to retention difficulties for the Air Force.

<u>ADDITIONAL:</u> This project meets the criteria/scope specified in the new uniform barracks construction standard, known as "one-plus-one", established by OSD. No other option could meet the mission requirements;

1. COMPONENT		FY 2002 MILITARY CON	ISTR	UCTION PROJECT DA	ATA	2. DATE
AIR FORCE		(compu	iter g	enerated)		
3. INSTALLATION	AND LOC	ATION		4. PROJECT TITLE		
TINKER AIR FORC	E BASE, C	OKLAHOMA		DORMITORY		I
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. P	ROJECT NUMBER	8. PROJEC	CT COST (\$000)
72896		721-312	١	WWYK023002		10,200
therefore, no econo	mic analys	sis was needed or perform	med.	FY1999 Unaccompani	ed Housing F	RPM Conducted:
requirements (estim	nated): FY0	ied Housing RPM Condu 01 : \$766K ; FY02: \$695 F	(; FY	03: \$716K. Base Civil	Engineer: Mi	Dean Holt, (405)
		M = 51 ,110 SF. Design				

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJE	CT DATA	2. DATE		
AIR FORCE	(computer generated)				
3. INSTALLATION	AND LOCATION				
	E BASE, OKLAHOMA		ROJECT NUMBEF		
I. PROJECT TITLE	I. PROJECT TITLE DORMITORY				
JURMITURY			/WYK023002		
12. SUPPLEMEN	NTAL DATA:	Design	Build		
a. Estimated	d Design Data:				
(1) Project	t to be accomplished by design-build procedures				
(2) Basis:					
	andard of Definitive Design -		NO		
(b) WI	nere Design Was Most Recently Used -				
(3) Desigr	Allowance		408		
(4) Constr	uction Contract Award Date		01 Nov		
(5) Constr	uction Start		02 Jan		
(6) Constr	uction Completion		03 Jul		
(7) Energy	Study/Life-Cycle analysis was/will be performed		YES		
appropriations:	sociated with this project will be provided from other N/A				

1. COMPONENT AIR FORCE	FY2	002		RY CONS		ON PROC	GRAM		2. DATE		
3. INSTALLATION AND LOCATION 4. COMMAND										5. AREA CONST	
ARNOLD AIR FORCE BASE, TENNESSEE AIR FORCE MATERIEL COMMAND									COST INDEX 0.88		
6 PERSONNEL	E PERSONNEL PERMANENT STUDENTS SUPPORTED										
STRENGTH	OFF	FNI	CIV	OFF	FNI	CIV	OFF	ENL	CIV	TOTAL	
a. As of 30 Sep 00	52	43	2,673					1	75	2,844	
b. End FY 2005	51	41	2,655	÷				1	75	2,823	
			7. IN	VENTOR	Y DATA S	\$(000)			•		
a. Total Acreage		39,081									
b. Inventory Totals a	as of: 30	Sep 00							1.419.551		
c. Authorization Not Yet In Inventory:									18,611		
d. Authorization Req		-	-						24,400		
e. Authorization Included In Following Program: (FY2003) 0											
f. Planned in Next Four Program Years: 53,400											
a. Remainina Deficiency: 246.600											
h. Grand Total: 1,762,562											
3. Projects Requeste	ed in this	Program:	FY2002					COST	DESIGN	etatue	
CATEGORYCOST DESIGNCODEPROJECT TITLESCOPE\$(000) START										CMP	
	rt To Hype		lant		00	-	.S \$	10,400		N KEY	
				System, P	hase	1 L		14,000		N KEY	
4							Tatal (0)	24.400	_		
							Total \$2	24,400			
>a. Future Projects:					Y2003)	No	Projects				
b. Future Projects: 7 318-612 Improv	Fypically F e Propuls					1 L	.s :	\$29,000			
•	de Jet Eng		•	•			.s .	\$9,400			
	idated Civ					7,850 S		\$9, 4 00 \$15,000			
c. Real Property Maintenance Backlog This Installation 38											
0. Mission or Major conducts developmen aircraft, missile, and or future simulated fl	Functions nt, certific space sys	s: The Arr ation, and stems. Th	nold Eng d simulat	ineering D ed flight te	esting of l	J.S. gove	ernment,	commerc	st center wi	ernational	
1. Outstanding pollu			SHA) def	iciencies:							
a. Air pollution									5,000		
b. Water pollutior	า								2,100		
Converting of Opforty and Uppolity											
c. Occupational S	Safety and	l Health							0		

1. COMPONENT		FY 2002 MILITARY	CONSTR	RUCTION F	PROJECT DA	AIA	2. DATE
AIR FORCE		(c	computer g	generated)			
3. INSTALLATION ARNOLD AIR FOR					ECT TITLE RT TO HYPE	RSONIC PL/	<u>I</u> ANT
5. PROGRAM ELE	MENT	6. CATEGORY C	ODE 7.	PROJECT	NUMBER	8. PROJE	CT COST (\$000)
72976	311-115	ANZY023	001		10,400		
		9.	COST ES	TIM.ATES			
	ľ	TEM		J/M	QUANTITY	UNIT COST	COST (\$000)
CONVERT TO HYP	PERSONIC	PLANT		LS			8,300
SUPPORTING FAC	ILITIES			LS			1,100 (550
SITE IMPROVEN	IENTS			LS			(350
PAVEMENTS				LS			(200
SUBTOTAL							9,400
CONTINGENCY (5.0 %)						470
TOTAL CONTRACT	COST						9,870
SUPERVISION, INS	SPECTION	& OVERHEAD(5	5.7 %)				563
TOTAL REQUEST							10,433
TOTAL REQUEST	(ROUNDE	D)				10,400	
Increasing the capa extension, supportin	city of the g utilities,	high pressure test r and site work.	medium si	upply syste			
10. Description of F Increasing the capa extension, supportin 11. REQUIREMEN PROJECT: Convert	city of the g utilities, IT: LS A	high pressure test r and site work. DEQUATE: LS SU	DBSTAND	upply syste			
Increasing the capa extension, supportin 11. REQUIREMEN PROJECT: Convert	city of the g utilities, IT: LS A to hypers Project wi t and ram enhanced f dware for ort military entific Advia s been ap test capal THAAD as	high pressure test r and site work. DEQUATE: LS SU onic plant. (New Mi Il provide Mach 8 ca jet engines and airfr flight envelope simu safe operation, dura warfighting capabili sory Board and Def oproved and an USA bility. Programs that	JBSTAND JBSTAND apability (f ame secti lation by ability, reli ties and h fense Sen AF MNS is presently	DARD: LS DARD: LS nigh temper ions in sup ground test ability and nave been i vice Board s under revie r require the	m, the air eje rature, pressu port of hypers t facilities will integrity prior recently valid Task Force. iew, each res e planned ca	ctor system, ares and air f sonic tactical provide the to flight. The ated by the N A Navy Miss ulting in prog pability includ	building lows) to test large missile opportunity to ese modifications vational Academy ion Needs yrams that require de Arrow II, Navy
Increasing the capa extension, supportin 11. REQUIREMEN <u>PROJECT</u> : Convert <u>REQUIREMENT</u> : or full-scale scramje development. This e validate certified han are needed to suppo of Sciences, AF Scie Statement (MNS) has the planned ground Area Defense, and	city of the g utilities, IT: LS A to hypers Project will and ram enhanced if dware for ort military entific Advi as been ap test capal THAAD as ns. <u>ON:</u> Beca ests have ration of fli the existin ic condition on trajecto pability of lo unds and p	high pressure test r and site work. DEQUATE: LS SL onic plant. (New Mi Il provide Mach 8 ca jet engines and airfr flight envelope simu safe operation, dura warfighting capabili sory Board and Dei oproved and an USA polity. Programs that well as advance sp ause the scramjet as been used success ght sized hardware. Ing APTU facility. AP his at the required a org enough duration prevent attaining req	medium si JBSTANE ission) apability (f rame secti lation by f ability, reli lation by f ability, reli fuls and h fense Ser AF MNS is presently bace laund nd ramjet fully only . This requ TU is the lititudes ar ctical miss n at the pr	DARD: LS DARD: LS DAR	m, the air eje rature, pressu port of hypers t facilities will integrity prior recently valid Task Force. iew, each res e planned ca cue vehicles, and thermal stu h and advand based on a facility which s to ensure d her such fligh ated flight con	ctor system, res and air f sonic tactical provide the to flight. The ated by the N A Navy Miss ulting in prog pability includ hypersonic ir ructures are to developm new mission can be econ- urability of ci t systems. F aditions will re	building lows) to test large missile opportunity to ese modifications National Academy ion Needs grams that require de Arrow II, Navy interceptors, and very complex nent, not for need, which will omically modified ritical components Failure to provide equire
Increasing the capa extension, supportin 11. REQUIREMENT: Or full-scale scramje development. This e validate certified har are needed to suppo of Sciences, AF Scie Statement (MNS) ha the planned ground Area Defense, and inssiles and munition <u>CURRENT_SITUATH</u> devices, sub-scale t assuring proper ope be met by modifying o support hyperson in the required missi dependable test cap continuous workarou	city of the g utilities, IT: LS A to hypers Project wi et and ram enhanced f rdware for ort military entific Advi as been ap test capat THAAD as <u>ON:</u> Beca ests have ration of fli the existin ic condition on trajecto pability of lu unds and p nt goals ar <u>OVIDED:</u> I significar neet develo nent and c	high pressure test r and site work. DEQUATE: LS SL onic plant. (New Mi Il provide Mach 8 ca jet engines and airfr flight envelope simu safe operation, dura warfighting capabili sory Board and Del oproved and an USA bility. Programs that well as advance sp ause the scramjet and been used success ght sized hardware. Ing APTU facility. AP his at the required a bry of hypersonic tac ong enough duration revent attaining req ad schedules. The life cycle costs tily increase or ever opment schedules discritication of advar	medium su JBSTANE ission) apability (h rame secti lation by a ability, reli ities and h fense Seri france Seri for se Seri presently bace laund nd ramjet fully only . This requ PTU is the lititudes ar ctical miss in at the pr juired eco associate in result in lue to lack inced engin	DARD: LS high temper ions in supp ground test ability and have been to vice Board s under revie require the ch and resc engines ar for researcl uirement is only DoD hd durations siles and ott roper simula nomics of t d with futur program te c of require nes and str	m, the air eje rature, pressu port of hypers t facilities will integrity prior recently valid Task Force. iew, each res e planned ca cue vehicles, and thermal stu h and advand based on a facility which s to ensure d her such fligh ated flight con ime and mor re developme ermination if of d test capabi ructures in sir	ctor system, rres and air f sonic tactical provide the to flight. The ated by the N A Navy Miss ulting in prog bability includ hypersonic ir ructures are we ced developm new mission can be econ- urability of ci t systems. F aditions will ru- ey to adequa nt of hyperso engines and/ lities. There in nulated hyper	building lows) to test large missile opportunity to ese modifications Vational Academy ion Needs grams that require de Arrow II, Navy hereceptors, and very complex nent, not for need, which will omically modified ritical components Failure to provide equire ately meet onic engines and or structures fail s no capability

1. COMPONENT			ISTRUCTION PROJECT DA	ATA	2. DATE
AIR FORCE		(compu	ter generated)		
3. INSTALLATION ARNOLD AIR FOR			4. PROJECT TITLE CONVERT TO HYPE	RSONIC PL	ANT
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJEC	CT COST (\$000)
72976		311-115	ANZY02300 1		10,400
Requirements." All option could meet certificate of exception	known alte the missior tion has be	ernative options were con n requirements; therefore	pject in Air Force Handbook Isidered during the develop , no economic analysis was Engineer: Lt Col David You	ment of this p needed or p	project. No other erformed. A

FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
AND LOCATION		
CE BASE, TENNESSEE		
		ROJECT NUMBER
ERSONIC PLANT	A	NZY023001
ITAL DATA:	Design	Build
I Design Data:		
to be accomplished by design-build procedures		
andard of Definitive Design -		NO
nere Design Was Most Recently Used -		
Allowance		416
uction Contract Award Date		02 Apr
uction Start		02 Jun
uction Completion		04 Jan
Study/Life-Cycle analysis was/will be performed		YES
N/A		
	(computer generated) AND LOCATION CE BASE, TENNESSEE PERSONIC PLANT NTAL_DATA: d Design Data: t to be accomplished by design-build procedures andard of Definitive Design - here Design Was Most Recently Used - here Design Was Most Recently Used - h Allowance uction Contract Award Date ruction Start uction Completion v Study/Life-Cycle analysis was/will be performed sociated with this project will be provrded from other	(computer generated) AND LOCATION CE BASE, TENNESSEE S. PF PERSONIC PLANT NTAL DATA: Design d Design Data: t to be accomplished by design-build procedures andard of Definitive Design - here Design Was Most Recently Used - Allowance uction Contract Award Date ruction Start uction Completion v Study/Life-Cycle analysis was/will be performed sociated with this project will be provrded from other

1. COMPONENT		FY 2002 MILITARY CONSTR		PROJECT DA	TA L	2. DATE
AIR FORCE		(computer g				
3. INSTALLATION			4. PROJ	ECT TITLE	<u> </u>	
ARNOLD AIR FORC	CE BASE,	TENNESSEE	UPGRA PHASE		NE AIR INDU	CTION SYSTEM,
5. PROGRAM ELEN	MENT	6. CATEGORY CODE 7. P	ROJECT	NUMBER	8. PROJECT	F COST (\$000)
72806	318-612 ANZY003000 14,000					
		9. COST EST	IMATES		<u> </u>	
	ľ	ТЕМ	J/N	QUANTITY	UNIT COST	COST (\$000)
UPGRADE JET ENG	SINE AIR	INDUCTION SYSTEM, PH 4	LS			11,905
TURBINE SUPPL	Y PROCE	SS AIR	LS			(7890
HOT SUPPLY			LS			(2140
AMBIENT SUPPL	Y		LS			(1285
INLET HEADER			LS			(590
SUPPORTING FACI	LITIES					775
DEMOLITION	220		LS			(250
LEAD BASE PAIN	NT/ASBES	TOS ABATEMENT	LS			(300
TESTING AND VA		N	LS			(225,
SUBTOTAL						12.680
CONTINGENCY (5	5.0 %)					634
TOTAL CONTRACT	COST					13,314
		N &OVERHEAD(5.7 %)				759
TOTAL REQUEST						14,073
TOTAL REQUEST (ROUNDE	D)				14.000
10. Description of Proposed Construction: Upgrade the jet engine air induction system for the Arnold Engineering Development Center (AEDC) Engine Test Facility (ETF) J-cells. Add connecting and process air supply duct from the Aeropropulsion Systems Test Facility (ASTF) plant to provide clean, rust-free air while configuring the ducting to match throughput and simulated altitude flight condition test performance requirements.						
11. REQUIREMEN	T: LS AI	DEQUATE: LS SUBSTANDA	ARD: LS			
PROJECT: Upgrade	e jet engin	e air induction system, phase	IV. (Curre	ent Mission)		
<u>REQUIREMENT</u> : This project is required to eliminate contaminants in air supply ducting which provide high pressure , high temperature air to multi-million dollar altitude test facilities at the AEDC ETF. ETF is used to simulate high altitude flight conditions for testing, evaluation, and development of advanced gas turbine engines or F-22, F-I 6, F-I 5, and F-I 8 fighter aircraft.						
conditions throughout nade of mild carbon rust). Current advan- uture engines operat esting, which require ncreases the amount he engines, melts, at characteristics which caused test termination esulting from high m complex system of m	t their flig steel. The ced high-i ting at hig s higher a t of rust p nd plates causes e on due to aintenanc otors, gea	ETF is the only DOD facility wheth envelope. The ETF was consistent of the envelope. The ETF was consistent of the envelope of	nstructed oded and es require even clea ow rates t bine engi aces, clou n and dar upgrade is bility caus lives used	in the early 19 I produce large e extremely cleaner air. Increas through the hig nes being test gging cooling p nage to hardw s also required ed by use of a in the A&B pl	50s with air s amounts of an air during using transient phly corroded ed. The rust is bassages and vare (severe c to reduce op aging equipme	supply ducting iron oxide testing, and toperability ducting. greatly singested into changing flow ases have terating costs ent. The

1. COMPONENT	FY 2002 MILITARY CONSTR	UCTION PROJECT DA	ATA 2. DATE
AIR FORCE	(computer g	generated)	
3. INSTALLATION AND LOC ARNOLD AIR FORCE BASE,		4. PROJECT TITLE UPGRADE JET ENG PHASE 4	INE AIR INDUCTION SYSTEM,
5. PROGRAM ELEMENT	6. CATEGORY CODE 7. F	ROJECT NUMBER	8. PROJECT COST (\$000)
72806	318-612	ANZY003000	14,000
business which can assume t decrease, resulting in higher o	ne turbine testing will be adve- ting the reliability of future air his workload. Maintenance co costs and schedule delays to	ersely affected and accu craft engines. There is sts will continue to incr weapon system develop	urate test data will be no other military or commercial ease and reliability will oment programs.
ADDITIONAL: There is no Requirements." All known alte option could meet the missior	criteria/scope for this project ernative options were conside n requirements; therefore, no een prepared. This is the fourt es during testing. Base Civil B	in Air Force Handbook red during the developr economic analysis was h phase of a five-phase Engineer: Lt. Col David	32-1084 , "Facility nent of this project. No other needed or performed. A ed effort to remediate ingestion

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJ	ECT DATA	2. DATE
AIR FORCE	(computer generated)		
3. INSTALLATION			
4. PROJECT TITLE	CE BASE. TENNESSEE	5 PI	ROJECT NUMBER
	GINE AIR INDUCTION SYSTEM, PHASE 4		NZY003000
12. SUPPLEME	NTAL DATA:	Design	Build
a. Estimate	d Design Data:		
(1) Projec	t to be accomplished by design-build procedures		
(2) Basis:			
	andard of Definitive Design -		NO
(b) W	here Design Was Most Recently Used -		
(3) Desigi	Allowance		560
(4) Constr	uction Contract Award Date		01 Nov
(5) Const	uction Start		02 Jan
(6) Consti		03 Oct	
(7) Energy	v Study/Life-Cycle analysis was/will be performed		YES
appropriations:	Ν/Α		

1. COMPONENT AIR FORCE FY2002 MILITARY CONSTRUCTION PROGRAM (computer generated)							2. DATE			
3. INSTALLATION AND LOCATION 4. COMMAND									5. AREA	CONST
LACKLAND AIR FORCE BASE, TEXAS AIR EDUCATION AND TRAINING COMMAND								INDEX).82		
6. PERSONNEL	PEF	MANENT	-		STUDE	NTS		SUPP	ORTED	
STRENGTH	OFF	FNL	CIV	OFF	FNI	CIV	OFF	ENI	CIV	TOTAL
a. As of 30 Sep 00	1,732	4,820	4.923	88	6,395		62	1,756	25	19,801
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	s of: 30	Sep 00							604.290	
c. Authorization Not									22.811	
d. Authorization Requ									12,800	
e. Authorization Inclu		-	-	(FY200	3)				17,000	
f. Planned in Next For g. Remainina Deficier	•	am rears							43.31s 526,510	
h. Grand Total:	104.								1,226,730	
3. Projects Requested	d in this	Program:	FY2002							
CATEGORY		-							DESIGN \$	STATUS
	JECT TI					OPE	_		START	CMP
171-000 Consolie Center	date Joir	nt Advanc	ed Lang	uage Trair	ning	2,175	SM	\$4,200	Jun 01	Apr 02
721-312 Dormito	ry					96	RM	\$8,600	MAR_00	SEP 01
							Total \$	12,800		
Ja. Future Projects: Ir	ncluded i	n the Fol	lowing P	rogram: (FY2003)					
721-312 Student	Dormito	ry				200	RM	\$17,000		
							Total	\$17,000		
➔b. Future Projects: Ty	ypically F	Planned N	lext Four	Years						
	-	rations Co	enter			3,315		\$8,800		
721-312 Dormito	•						RM	\$7,646		
721-312 Dormito	-						RM RM	\$7,016 \$6,544		
721-312 Dormito 721-312 Dormito	-						RM	\$6,113		
	•	curity For	ces Ope	rations		3,065		\$7.200		
c. Real Property Mai									78	
					udes Ras	sic Milit	ary Trainin	n School	-	
10. 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.										
II. Outstanding pollution	on and	safety (O	SHA) def	ficiencies:						
a. Air pollution									771	
b. Water pollution									310	
c. Occupational Sa	afety and	l Health							0	
d. Other Environm	nental								0	

1. COMPONENT		FY 2002 MILITARY CON	ISTRUC			τΔ Γ	2. DATE
AIR FORCE			iter gene			4	2. DATE
3. INSTALLATION	AND LOC		-		JECT TITLE		
LACKLAND AIR FO			C	ONSO	LIDATE JOIN	T ADVANCED	LANGUAGE
5. PROGRAM ELE			NG CENTER	8. PROJECT	COST (\$000)		
22176		171-621		LS023			4.200
		-	T ESTIMA				4.200
	I	TEM		U/N	QUANTITY	UNIT COST	COST (\$000)
JOINT ADVANCED	LANGUA	GE TRAINING CENTER		LS			3,054
ADVANCED LAN	GUAGE T	RAINING CENTER		SM	2,175	1,390	(3,023)
ANTITERRORISM	1 FORCE	PROTECTION		SM	2,175	14	(30)
SUPPORTING FAC	ILITIES						710
UTILITIES				LS			(250)
SITE IMPROVEN PAVEMENT	IENIS			LS			(100
DEMOLITION				LS SM	1,335	120	(200
SUBTOTAL				SIVI	1,000	120	(160
CONTINGENCY (5 0%)						3.764
	-						188
TOTAL CONTRACT		I & OVERHEAD (5.7 %)					3,952 225
TOTAL REQUEST							4,177
TOTAL REQUEST	(ROUNDE	D)					4,200
	,	,					,
rame/standing sear 1/21 for sensitive co	n metal ro mpartmen	Construction: Single story of. Work to be in complia talized information facilitie nterim minimum force pro	nce with es (SCIF)	Direct	tor of Central udes demolitio	Intelligence Dir n of three buil	ective (DCID)
Air Conditioning: 10	00 KW						
11. REQUIREMEN	T : 2,175 \$	SM ADEQUATE: SM SI	JBSTAN	DARD): 1,335 SM		
PROJECT: Constru	ict a joint a	advanced language traini	ng cente	r. (Cur	rrent Mission)		
PROJECT: Construct a joint advanced language training center. (Current Mission) REQUIREMENT: An adequate facility is required to conduct language and operations training for the Signal Intelligence (SIGINT) community to support the warfighter and national taskings. Training functions must ensure all personnel receive operational mission-specific and advanced language training to expertly perform the mission as operationally executed at this key regional intelligence facility. The training organizations must also continually assess the skill level of the workforce as it relates to the growing and evolving missions, developing and adjusting appropriate training strategies to keep the work force technically fit for the mission. These fluctuating mission needs drive a requirement for highly flexible mission-specific training space. In addition, this project will correct existing individual training space deficiencies by collocating and consolidating all training functions into a single facility. Comply with DoD interim minimum force protection construction standards.							
compound. The SCI Language Center, re- acilities. The areas nstructors required f nission increases ex situation. The prese operational areas, se	F training i ecently relo currently a to develop pect to bri nt classroo everely imp	ting training is conducted is conducted in Bldg 322 ocated from a building dea available for training do no and maintain the workfo ng an additional 200 pers oms are too small and so bacting the quality of the l n space many classes ma	which is ep within ot accom rce resul sons to the me are n learning p	45 ye the flo moda ting in ne MR ot sep proces	ars old with fa bod plain, is c te the number a training sh SOC in the n barated from a s as well as t	ailing infrastruc urrently in tem of classrooms ortfall. Current ear term, exac udjacent admin he adjacent m	ure. The Joint porary s and planned erbating this istrative and ission areas.
DD FORM 1391 Dec 7		Previous			. 1 . 1 .	Б	no No

1. COMPONENT	FY 2002 MILITARY CC	ATA 2. DATE				
AIR FORCE	(comp					
3. INSTALLATION	AND LOCATION	4. PROJECT TITLE				
LACKLAND AIR FO	DRCE BASE, TEXAS	CONSOLIDATE JOIN TRAINING CENTER	CONSOLIDATE JOINT ADVANCED LANGUAGE TRAINING CENTER			
5. PROGRAM ELE	MENT 6. CATEGORY CODE	E 7. PROJECT NUMBER	8. PROJECT COST (\$000)			
22176	I 171-621	MPLS023273	4,200			

personnel. 50% of the assigned personnel are fresh out of school and have little or no prior experience, making mission specific on-site training vital. The operational mission requirements at the MRSOC have undergone unprecedented growth over the last five years and the training to support these missions has increased proportionately. The current trend to more sophisticated mission equipment drives a requirement for specialized training spaces capable of demonstrating and utilizing this equipment in a classroom setting. In any given year, approximately 80% of the assigned personnel, or 1280 people, require training at the MRSOC.

<u>IMPACT IF NOT PROVIDED</u>: The MRSOC training required for the continued signal intelligence support to the warfighter and national customers cannot be accomplished in the existing facilities. Lack of adequate, properly configured training spaces will increasingly have a negative impact on both mission effectiveness and morale, ultimately reducing intelligence production.

<u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." 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 certificate of exception has been prepared. Base Civil Engineer: Lt Col Gordon Green, (210) 671-2977. Joint Advanced Language Training Center: 2,175 SM = 23,403 SF.

	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	
3. INSTALLATION		
	DRCE BASE, TEXAS	
1. PROJECT TITLE	NT ADVANCED LANGUAGE TRAINING CENTER	5. PROJECT NUMBE
JONGOLIDATE JO		MPLS023273
12. SUPPLEME	ITAL DATA: Desig	gn, Bid, Build
a. Estimated	Design Data:	
(1) Statua		
(1) Status		25-Jun-01
	te Design Started	YES
	rametric Cost Estimates used to develop costs rcent Complete as of Jan 01	1 %
	te 35% Designed.	08-Oct-01
	te Design Complete	28-Apr-02
	ergy Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:	Type oudy/Ene bype analysis was/will be performed	
	Indard of Definitive Design -	NO
	ere Design Was Most Recently Used -	NO
	Cost (c) = (a) + (b) or(d) + (e):	(\$000)
	oduction of Plans and Specifications	231
	Other Design Costs	42
(c) To	-	273
(d) Cc		210
(e) In-	nouse	63
	uction Contract Award Date	02 Jun
(5) Constr	uction Start	02 Aug
(6) Constru	uction Completion	03 Feb
	completion of Project Definition with Parametric Cost Estimate)
which is co	mparable to traditional 35% design to ensure valid scope and ecutability.	

1. COMPONENT	FY 2002 MILITARY COM				TA :	2. DATE
AIR FORCE	(compu	uter gene	erated)			
3. INSTALLATION AND LOU LACKLAND AIR FORCE BAS			PROJ ORMIT	ECT TITLE ORY		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PR(DJECT	NUMBER	8. PROJEC	T COST (\$000)
85796	721-312		LS033	294		8.600
	9. COS	T ESTIM				
	ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (96 RM)			LS			5,85
DORMITORY			SM	3,168	1,759	(5,573
ANTITERRORISM/FORCE	PROTECTION		LS	,		(279
SUPPORTING FACILITIES						1,930
UTILITIES			LS			(346
PAVEMENTS			LS			(448
SITE IMPROVEMENTS			LS			(330
PIER FOUNDATION			LS			(448
CENTRAL CHILLER PACK	AGE		LS			(358
SUBTOTAL						7,782
CONTINGENCY (5.0%)						389
TOTAL CONTRACT COST						8,171
SUPERVISION, INSPECTION	N 8 OVERHEAD (5.7 %))				466
TOTAL REQUEST						8,636
TOTAL REQUEST (ROUNDE	D)					8,600
10. Description of Proposed of steel frame, and roof. Include chiller package with cooling to interim standard force protect Air Conditioning: 300 KW	s room-bath/kitchen-room ower, site preparation, an	module d all oth	s, laun	dry rooms, sto	orage, lounge	areas, central
1. REQUIREMENT: 2,388	SM ADEQUATE: 1,159	SM SUE	BSTAN	DARD: 198 \$	SM	
PROJECT: Construct a dorm	itory. (Current Mission)					
<u>BEQUIREMENT:</u> A major A conducive to their proper rest providing some degree of ind complicated and important job essential to our readiness pos to comply with the DoD force	ividual privacy are essenti os these people must perf sture and continuing work	well-bein al to the orm. The d-wide p	ng. Pro succe reten resenc	perly designe essful accompl tion of these l e. Antiterroris	d and furnishe ishment of the nighly trained a	ed quarters e increasingly airmen is
<u>CURRENT SITUATION:</u> The personnel. This project is in a					the unaccom	panied enlisted
MPACT IF NOT PROVIDED: will not be available, resulting enlisted personnel.						
ADDITIONAL: This project standard, known as "one-plus levelopment of this project. N was needed or performed. Ur	lo other option could mee	D. All kn et missio	own a n requ	Iternatives we	re considered refore, no eco	during the nomic analysis

AR FCRCE (computer generated) 3. INSTALLATION AND LOCATION 4. PROJECT ITILE DORMITORY 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 85796 721-312 MPLS033294 8.000 Unaccompanied Housing RPM: FY00=\$2,500K; FY01=\$2,500K; FY02=\$2,500K; FY03=\$2,500K; Base Civil Engineer: LI Col Gordon Green, (210) 671-2977. Dormitory: 3,168SM = 34,08SF.	1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA 2. DATE						
LACKLAND AIR FORCE BASE, TEXAS DORMITORY 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 85796 721-312 MPLS033294 8,600 Unaccompanied Housing RPM: FY00=\$2,500K; FY01=\$2,500K; FY02=\$2,500K; FY03=\$2,500K. Base Civil	AIR FORCE	(computer generated)						
LACKLAND AIR FORCE BASE, TEXAS DORMITORY 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 85796 721-312 MPLS033294 8,600 Unaccompanied Housing RPM: FY00=\$2,500K; FY01=\$2,500K; FY02=\$2,500K; FY03=\$2,500K. Base Civil	3. INSTALLATION AND	LOCATION		4. PROJECT TITLE				
85796 721-312 MPLS033294 8,600 Unaccompanied Housing RPM: FY00=\$2,500K; FY01=\$2,500K; FY02=\$2,500K; FY03=\$2,500K. Base Civil								
Unaccompanied Housing RPM: FY00=\$2,500K; FY01=\$2,500K; FY02=\$2,500K; FY03=\$2,500K. Base Civil	5. PROGRAM ELEMEN	IT 6. CATEGOR	Y CODE 7. F	PROJECT NUMBER	8. PROJEC	CT COST (\$000)		
Unaccompanied Housing RPM: FY00=\$2,500K; FY01=\$2,500K; FY02=\$2,500K; FY03=\$2,500K; Base Civil Engineer: Lt Col Gordon Green, (210) 671-2977. Dormitory: 3,168SM = 34,088SF.	85796	721-3	12	MPLS033294		8,600		
Engineer: Lt Col Gordon Green, (210) 671-2977. Dormitory: 3,1685M = 34,0885F.	Unaccompanied Housin	g RPM: FY00=\$2,50	0K; FY01=\$2	500K; FY02=\$2,500K;	FY03=\$2,500	K. Base Civil		
	Engineer: Lt Col Gordor	n Green, (210) 671- 2	2977. Dormitor	y: 3,168SM = 34,088S	F.			

.

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
AIR FORCE	(computer generated)		
3. INSTALLATION			
	DRCE BASE, TEXAS		
I. PROJECT TITLE			ROJECT NUMBER
JONWITORT		ľ	MPLS033294
12. SUPPLEME	NTAL DATA: Des	ign, Bi	d, Build
a. Estimated	d Design Data:		
(1) Status			31-MAR-00
	ate Design Started		YES
	arametric Cost Estimates used to develop costs		
	prcent Complete as of Jan 01		100% 20-SEP-00
	ate 35% Designed.		10-SEP-00
	ate Design Complete		YES
	ergy Study/Life-Cycle analysis was/will be performed		TES
(2) Basis:			
	andard of Definitive Design -		YES
. ,	here Design Was Most Recently Used -		LACKLAND
	Cost (c) = (a) + (b) or(d) + (e):		(\$000)
	oduction of Plans and Specifications		516
	Other Design Costs		129
(c) To	tal		645
	ontract		545
	house		100
	uction Contract Award Date		01 Nov
	uction Start		02 Jan
	uction Completion		03 Apr
which is co	completion of Project Definition with Parametric Cost Estimate omparable to traditional 35% design to ensure valid scope and xecutability.		
b. Equipment ass appropriations:	sociated with this project will be provided from other N/A		

1. COMPONENT FY2002 MILITA TY CONSTRUCTION PROGRAM (computer generated)									2. DATE		
3. INSTALLATION AND LOCATION 4. COMMAND									5. AREA CONST		
LAUGHLIN AIR FO	LAUGHLIN AIR FORCE BASE, TEXAS AIR EDUCATION AND TRAINING COMMAND								INDEX 0.89		
6. PERSONNEL	PER	MANENT	•		STUDEN	ITS		SUPP	ORTED		
STRENGTH	OFF	FNL	CIV	OFF	FNI	CIV	OFF	FNL	CIV	TOTAL	
a. As of 30 Sep 00	415	533	1,600	356			76		2	2,982	
b. End FY 2005	435	539	1.609	359			76		2	3.020	
			7. II	NVENTOR	Y DATA S	\$1000)			-		
a. Total Acreage		4,524	Ļ								
b. Inventory Totals a	as of: 30	Sep 00							151.199		
c. Authorization Not									16,856		
d. Authorization Rec	•	-		(-) (- - - - -	-)				12,000		
e. Authorization Inc		•	•	n: (FY200	3)				0		
f. Planned in Next F	•	am Years	:						6,140 57,600		
a. Remainina Deficie	encv:							_	243,795	-	
h. Grand Total:	ad in this	Drogrom	EVODOO						243,793		
8. Projects Requeste CATEGORY	ed in this	Program:	F 12002					COST	DESIGN	STATUS	
	DJECT TI	TLE			SC	OPE			START	CMP	
740-674 Add/Al	ter Fitnes	s Center				5,051 \$	SM \$	12,000	JUN 01	Apr 02	
							Total \$	12,000			
9a. Future Projects: I	Included i	n the Foll	owing P	rogram: (F	Y2003)	No	Projects				
9b. Future Projects:											
	lidated W					2,700 \$	SM	\$6,140			
9c. Real Property Ma	aintenanc	e Backlog	This In	stallation					52		
10. Mission or Major 37, and T- <u>38 aircraft</u> .		s: A flyin	g training	g wing whi	ch condu	cts Unde	rgraduate	e Pilot Tr	raining with	T-1, T-	
11. Outstanding pollu	ition and	safety (OS	SHA) dei	liciencies:							
a. Air pollution									244		
b. Water pollutior	า								25		
c. Occupational S	Safety and	d Health							0		
d. Other Environ	mental				<u></u>				0		

1. COMPONENT		FY 2002 MILITARY CON	ISTRUC	FION	PROJECT DA	ΓA	2. DATE		
AIR FORCE	(computer generated)								
	3. INSTALLATION AND LOCATION4. PROJECT TITLELAUGHLIN AIR FORCE BASE, TEXASADD/ALTER FITNESS CENTER								
5. PROGRAM ELEMEN	NT	6. CATEGORY CODE	7. PRO	JECT	NUMBER	8. PROJEC	T COST (\$000)		
85976	ľ	740-674	MXI	DP983	004	12.000			
9. COST ESTIMATES									
	ľ	ГЕМ		U/M	QUANTITY	UNIT COST	COST (\$000)		
PRIMARY FACILITY FITNESS CENTER / HAWC ANTI-TERRORISM /		DR TRACK / POOL E PROTECTION (.005)		LS SM SM LS	4,692 359	1,841 1,735	9,307 (8,638 (623 (46.317		
SUPPORTING FACILIT UTILITIES PAVEMENTS SITE IMPROVEMENT DEMOLITION	IES			LS LS LS LS			(46.317 1,424 (395 (225 (754 (50		
SUBTOTAL CONTINGENCY (5.0	%)						10,731 537		
FOTAL CONTRACT CC SUPERVISION, INSPE FOTAL REQUEST FOTAL REQUEST (RO	CTION) & OVERHEAD (5.7 %)					11,268 642 11,910 12,000		
nterior and exterior finis ooms, racquetball court	shes to ts, laun	Construction: Construct a match base standards, v dry rooms, equipment st Wellness Center (HAW)	veight ro	oms, a oms, e	aerobic areas, elevated indoor	basketball co running trac	burt, locker ck, indoor		
11. REQUIREMENT: 5	5,051 \$	SM ADEQUATE: SM SI	JBSTAN	DARE): 2,499 SM				
		s center with co-located H the AF FY99 Fitness Cer				HAWC), IAW	/ AF Fitness		
		enter that has all of the e al fitness and a centralize							
Denefits. <u>CURRENT SITUATION</u> : The FY99 USAF Fitness Center Master Plan validated that the existing fitness center has inadequate space to support the current and projected military population. The increased emphasis on Air Force weight and physical training requirements has overtaxed the existing facility. There are long waiting times or aerobic/exercise machines, racquetball courts and weight training equipment. This situation is further *xacerbated by the fact that the local community has no fully equipped gym available as an off-base alternate. In ddition, during the long summer months, when temperatures reach over 100 degrees and stay that way until well fter 10PM, jogging becomes hazardous and can result in severe heat stroke or exhaustion. The current Health nd Wellness Center (HAWC) is located in the medical facility and not in the current fitness center. This situation sads to duplication of purchases, equipment that both the HAWC and fitness center require, such as treadmills, pwing machines, stationary bicycles and weight training equipment.									
		Continued use of substan Il as having a negative ir							

1. COMPONENT AIR FORCE		FY 2002 MILITARY CONSTRUCTION PROJECT DATA 2. DATE (computer generated)				
3. INSTALLATION		-		4. PROJECT TITLE ADD/ALTER FITNES		
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. P	ROJECT NUMBER	8. PROJECT COST (\$000)	
85976		740-674		MXDP983004	12,000	

copulation and family members. In addition, members forced to use outdoor running tracks will continue to be exposed to the harsh hot temperatures in this area, resulting in associated health risks including heat strokes, neat exhaustion, and sunburns.

ADDITIONAL: This project meets the criteria/scope specified in USAF Fitness Facilities Design Guidance. All **cnown** 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 certificate of exemption has been prepared and approved." Base CE POC: Lt Col Al Poerner, (830) 298-5252, Construct Fitness Center 5,051 SM = 54,349 SF"

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
AIR FORCE	(computer generated)		
3. INSTALLATION	AND LOCATION		•
_AUGHLIN AIR FO	RCE BASE, TEXAS		
I. PROJECT TITLE		5. PI	ROJECT NUMBER
ADD/ALTER FITNE	SS CENTER	Ν	MXDP983004
12. SUPPLEMEN	NTAL DATA: De	esign, Bi	id, Build
a. Estimated	Design Data:		
(1) Status			25-JUN-01
	te Design Started		
	rametric Cost Estimates used to develop costs		YES
	rcent Complete as of Jan 01		1 %
	te 35% Designed.		08-Oct-01
	te Design Complete		28-Apr-02
(f) Ene	ergy Study/Life-Cycle analysis was/will be performed		YES
(2) Basis:			
	andard of Definitive Design -		NO
(b) Wł	nere Design Was Most Recently Used -		
(3) Total C	Cost (c) = (a) + (b) or (d) + (e):		(\$000)
(a) Pro	oduction of Plans and Specifications		720
(b) All	Other Design Costs		360
(c) To	tal		1,080
(d) Co	ontract		900
(e) In-	house		180
(4) Constr	uction Contract Award Date		02 Jul
(5) Constr	uction Start		02 Sep
(6) Constr	uction Completion		04 Aug
which is co	completion of Project Definition with Parametric Cost Estim omparable to traditional 35% design to ensure valid scope an xecutability.		
 b. Equipment ass appropriations: 	ociated with this project will be provided from other N/A		

1. COMPONEN AIR FORCE	ΙT	FY2002			RY CONS iter gener		ON PRO	OGRAM		2. DATE	E
3. INSTALLATI	ON AND I	LOCATIO	ЛС		4. COMM	IAND				5. AREA	CONST
SHEPPARD A	IR FORC	E BASE,	TEX	AS	AIR EDU COMMAI	ICATION ND	AND T	RAINING	3		INDEX).95
6. PERSONNE	L	PERMA	NENT	-		STUDEN	ITS		SUPP	ORTED	
STRENGTH		FF F	NI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	TOTAL
a. As of 30 Sep	00 5	588 2,6	696	2,653	371	4,040		13	7 1,792	129	12,406
b. End FY 20	005 5	572 2,	438	2,661	380	3,918		13	7 1,792	129	12,027
				7. II	VENTOR	Y DATA	6(000)				
a. Total Acreage	е		5,719)							
b. Inventory Tot	tals as of:	30 Sep	00							565.655	
c. Authorization										0	
d. Authorization	-		-			0)				37.000	
e. Authorization			-	-	(FY200	3)				0 39.568	
f. Planned in Ne a. Remainina D		•	eais							207.684	
h. Grand Total:	cholency.								_	849,907	
	PROJEC eplace Stu rudent Do	udent Do			Fac (140 (160 RM)		-	RM RM Total		DESIGN S START AUG 01 AUG 01	CMP APR 02 APR 02
a. Future Proje	cts: Incluc	ded in the	e Foll	owing P	rogram: (F	Y2003)	Ν	lo Projec	rts		
b. Future Proje		-		lext Fou	r Years						
	apcon/cor						2,366		\$11,500		
	NJPPT Fli	-		volonmo	ot Facility		2,217 7,120		\$5,800 \$15,000		
	ormitory	ntenance	i De	velopme	nt Facility		120		\$7,268		
c. Real Propert	v Mainter	nance Ba	ickloo	1 This In	stallation					40	
to. Mission or N comptroller, and rain US and NA Reserve Counna	lajor Fund health sc TO pilots	ctions: A ience co under th	traini urses	ing wing ; a flying	responsib training w	/ing with	Г-37/ Т-	38/AT-38	B flying trai	gineering, ning squadr	
1. Outstanding	pollution	and safe	ty (O	SHA) del	ficiencies:						
a. Air pollutio	on									175	
b. Water pol	lution									350	
c Occupatio	nal Safat		- الدا -								
c. Occupatio	nai Salety	/ and He	aith							0	

1. COMPONENT	ONENT FY 2002 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE	(compu	uter gene	rated)						
3. INSTALLATION AND L SHEPPARD AIR FORCE E	BASE, TEXAS	RE (14			DORMITORY	/DINING FAC			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PRO	JECT	NUMBER	8. PROJEC	r COST (\$000)			
85976	721-312		P003	002B		16.000			
	9. co:	T ESTIMA	IES		UNIT	COST			
	ITEM		U/M	QUANTITY	COST	(\$000)			
STUDENT DORM (140 RM)		LS			11,550			
DORMITORY (140 ROO	MS)		SM	6,825	1.501	(10,244;			
DINING FACILITY (500 F	PN)		SM	465	2,572	(1.196:			
ANTITERRORISM FORC	E PROTECTION		SM	7,290	15	(109)			
SUPPORTING FACILITIES						2,915			
UTILITIES			LS			(900)			
PAVEMENTS			LS			(1,065)			
SITE IMPROVEMENTS			LS			(950)			
SUBTOTAL						14,465			
CONTINGENCY (5.0 %)						723			
TOTAL CONTRACT COST SUPERVISION, INSPECTIO		۱				15,188			
TOTAL REQUEST	UN & OVERHEAD (5.7 %)				866			
TOTAL REQUEST						16,054 16.000			
						10.000			
10. Description of Proposed structural steel frame with b room), laundries, training m DoD interim minimum force Air Conditioning: 600 KW	prick veneer and roof syster anagers' area, storage, din	n. Include	es roo	m-bath-room	modules (two	students per			
C C	9 SM ADEQUATE: 1,448	SM SUB	STAN	IDARD: 1 256	S SM				
PROJECT: Construct a stu					••••				
	y sized and configured dorr to provide housing conduci tudy environment. Properly sential to the successful acc cated dining facility close to is in accordance with the A	nitories a ve to the designed complishr the dorm	re req ir prop and f nent c itories	uired to suppoer rest, relaxa furnished qual of vital training is required to	ation and person rters, providing prequirements. to insure the mo	onal well-being some degree An addition ost efficient use			
CURRENT SITUATION: For deteriorated condition. They mildew problems are creating property such as televisions to open windows contribute within dormitories serve 200 student time on station are of current dining facilities.	are plagued by broken toil ng health hazards. Frequen and computers. Severe he to stifling conditions for per 0,000 meals per month. Tra	ets, sinks t electrica at and co sonal stu ining curr	s, sew al pow boling dies. (icula (er, and water er outages ca inconsistencie Currently, fou developed for	lines. Severe ause damage t es, exacerbated dining facilitie the most effect	moisture and o personal d by the inability s located tive use of			
IMPACT IF NOT PROVIDE morale, productivity, and ov									
DD FORM 1391, Dec 76	Previous	editions a	o ober		Par	je No.			

1. COMPONENT		FY 2002 MILITARY CON	STRUCTION PROJECT DA	ATA	2. DATE
AIR FORCE		(compu	ter generated)		
3. INSTALLATION	AND LOC	ATION	4. PROJECT TITLE		
SHEPPARD AIR FO	DRCE BAS	SE, TEXAS	REPLACE STUDENT (140 RM)	DORMITOR	Y/DINING FAC
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJEC	CT COST (\$000)
85976		721-312	VNVP003002B		16,000
			ative impacts on retention a ous construction addition of		
entry-level skill train standard. All known meet mission requir exception was prep Housing RPM cond \$207K; FY02: \$218	ing. This p alternative ements. T pared. FY1 lucted: \$20 K; FY03: \$	project is being designed es were considered durin herefore, no economic ar 999 Unaccompanied Hou 00K. Future Unaccompar	es not apply to housing con to the Air Force technical th g the development of this p halysis was needed or perfo using RPM conducted: \$2,1 hied Housing RPM requirem er: Col William Martin, (940 SF	raining "pipeli project. No ot prmed. A cert 184K. FY200 nents (estima	ne" construction her option could ificate of O Unaccompanied ted): FY01:

AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
SHEPPARD AIR FOR	CE BASE, TEXAS	
1. PROJECT TITLE		5. PROJECT NUMBER
REPLACE STUDENT	DORMITORY/DINING FAC (140 RM)	VNVP003002B
12. SUPPLEMENT	AL DATA: De	esign, Bid, Build
a. Estimated D	Design Data:	
(1) Status:		
	Design Started	01 -AUG-01
	metric Cost Estimates used to develop costs	YES
	ent Complete as of Jan 01	65 %
	35% Designed.	30-NOV-01
	Design Complete	10-APR-02
	y Study/Life-Cycle analysis was/will be performed	YES
(2) Basis:		
(a) Stand	dard of Definitive Design -	NO
(b) Wher	e Design Was Most Recently Used -	
(3) Total Co	st (c) = (a) + (b) or(d) + (e):	(\$000)
(a) Produ	uction of Plans and Specifications	960
(b) All O	ther Design Costs	480
(c) Total		1,440
(d) Cont	ract	1,200
(e) In-ho	use	240
(4) Construct	ion Contract Award Date	02 Jun
(5) Construct	tion Start	02 Aug
(6) Construct	ion Completion	04 Aug
	mpletion of Project Definition with Parametric Cost Estima parable to traditional 35% design to ensure valid scope and cutability.	
	iated with this project will be provided from other	

1. COMPONENT AIR FORCE										Ξ	
										A CONST INDEX).95	
6. PERSONNEL	PFRM	ANENI	_		STUDE	NTS		SUPP	ORTED		
STRENGTH	OFF	ENI	CIV	OFF	FNI	CIV	OFF	F FNI	CIV	TOTAL	
a. As of 30 Sep	00 588	2,696	2,653	371	4,040		13	7 1,792	129	12,406	
b. End FY 2005		2,438	2,661	380	3,918		13	7 1,792	129	12,027	
7. INVENTORY DATA \$(000)											
a. Total Acreage 5,719											
-	b. Inventory Totals as of: 30 Sep 00 565.655										
c. Authorization Not Yet In Inventory: 0											
	d. Authorization Requested In this Program: 37,000										
e. Authorization Included In Following Program: (FY2003) 0											
f. Planned in Next For	ur Progra	am Years	:						39,568		
a. Remainina Deficier	ncv:								207.684		
h. Grand Total:									849,907		
3. Projects Requested	in this	Program:	FY2002								
CATEGORY									DESIGN		
	JECT TI					OPE			START	CMP	
				Fac (140	RM)	-	RM	\$16,000	AUG 01	APR 02	
721-312 Student	Dormito	ry/Dining	Facility (160 RM)		160	RM	\$21,000	AUG 01	APR 02	
							Total	\$37,000			
9a. Future Projects: In	cluded ir	n the Foll	owing Pı	ogram: (F	Y2003)	Ν	lo Projec	ts			
9b. Future Projects: T	ypically F	Planned N	lext Fou	· Years							
149-962 Rapcon/	/control 7	ower				2,366	SM	\$11,500			
171-211 ENJPPT	Г Flight S	Simulator				2,217	SM	\$5,800			
171-627 Trainer	Maintena	ance / De	velopme	nt Facility		7,120	SM	\$15,000			
721-312 Dormito	ry					120	RM	\$7,268			
9c. Real Property Mai	ntenance	Backlog	This In	stallation					40		
comptroller, and health train US and NATO pil	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 trainino squadron.										
1. Outstanding polluti				iciencies:							
a. Air pollution		2	, -						175		
b. Water pollution									350		
c. Occupational Sa	afetv and	Health							0		
d. Other Environm	-								0		
									U		

1. COMPONENT		FY 2002 MILITARY CON	STRUCTION	PROJECT DA	ATA 2	. DATE		
AIR FORCE	(computer generated)							
3. INSTALLATION SHEPPARD AIR FC				JECT TITLE NT DORMITC	DRY/DINING FA	ACILITY (160 RN		
5. PROGRAM ELEI	MENT	6. CATEGORY CODE	7. PROJECT	NUMBER	8. PROJECT	COST (\$000)		
85796		721-312	VNVP003	3002		21,000		
		9. COS	ESTIMATES			,		
	I	TEM	U/N	QUANTITY	UNIT COST	COST (\$000)		
STUDENT DORMIT	ORY/DINI	NG FACILITY	SM	9,712	1,56	15,196		
DORMITORY (160			SM	7,800	1,429	(11,146		
DINING FACILITY	-	N)	SM	1,712	2,286	(3,914		
ANTITERRORISM	FORCE	PROTECTION	SM	9,712	14	(136		
SUPPORTING FAC	ILITIES					3,600		
UTILITIES			LS			(950)		
PAVEMENTS			LS			(850)		
SITE IMPROVEM	ENTS		LS			(1.650:		
COMMUNICATION	IS		LS			(150)		
SUBTOTAL						18,796		
CONTINGENCY (5.0%)					940		
OTAL CONTRACT	COST					19,736		
		N & OVERHEAD (5.7 %)				1,125		
OTAL REQUEST						20,861		
TOTAL REQUEST	(ROUNDEI	D)				21,000		
EQUIPMENT FROM	I OTHER	APPROPRIATIONS				(400)		
rame with brick ven raining managers an Comply with DoD int Air Conditioning: 65	eer, and r rea, storag erim minir 0 KW	Construction: Four-story fa oof system. Includes roor ge, and all necessary sup num force protection con Grade Mix: 320 EI-E4	n-bath-room n port. Also inclu struction stand 1.	nodules (two s udes one stor lard.	students per roo y detached dini	om), laundries,		
		SM ADEQUATE: 370 S			SM			
		ent dormitory and dining fa	•					
major Air Force obje while providing a su of individual privacy, ocated dining facility	ctive is to itable stud are esser close to cordance v	ized and configured dorn provide housing conduciv ly environment. Properly ntial to the successful acc student dormitories is also with the Air Force Dormito rd.	ve to their prop designed and complishment of required to ir	per rest, relaxa furnished qua of vital training nsure the mos	ation and perso rters, providing g requirements. at efficient use o	nal well-being some degree A centrally of training time.		
deteriorated conditio nildew problems are property such as tele nability to open wind ocated within dormit	n. They a creating evisions and dows contri ories serv on station a	of the eleven student do re plagued by broken toil health hazards. Frequent nd computers. Severe he ribute to stifling conditions e 200,000 meals per mon are contingent on the effici ties.	ets, sinks, sew electrical pow at and cooling s for personal nth. Training c	ver, and water ver outages ca inconsistenci studies. Curre urriculums de	r lines. Severe ause damage to es, exacerbated ently, four dining veloped for the	moisture and p personal d by the g facilities most effective		
MPACT IF NOT PR								
D FORM 1391, Dec 7	6	Previous	editions are obs	olete.	Pa	ge No		

1. COMPONENT		FY 2002 MILITARY CON	ISTRUCTION PROJECT DA	TA 2. DATE
AIR FORCE		(compu	iter generated)	
3. INSTALLATION SHEPPARD AIR F(4. PROJECT TITLE STUDENT DORMITO	RY/DINING FACILITY (160 R
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
85796		721-312	VNVP003002	21,000
Deplorable condition	ale, produc ns for new ot be satisf	ctivity, and overall training members of the Air Ford ied without the simultane		
entry-level skill train standard. All knowr neet mission requir Jnaccompanied Ho 200K. Future Una	ning. This p n alternative rements. T busing RPI ccompanie Engineer: C	project is being designed es were considered durir herefore, no economic a M conducted: \$2,184K. F d Housing RPM requirer Col William Martin, (940)	to the Air Force technical tr	using RPM conducted: 207K; FY02: \$218K; FYo3:
, <u> </u>	-, -			

1. COMPONENT AIR FORCE	FY 2002 I	MILITARY CONSTRUCTION PI (computer generated)	ROJECT DATA	2. DATE
3. INSTALLATION		(computer generated)		
		c		
4. PROJECT TITLE	ORCE BASE, TEXA		5.	PROJECT NUMBER
	ORY/DINING FACIL	.ITY (160 RM)		VNVP003002
12. SUPPLEME			Design,	Bid, Build
a. Estimate	d Design Data:			
(1) Status	5			
	ate Design Started	1		01 -AUG-01
	-	imates used to develop cost	S	YES
	ercent Complete a			65 %
. (d) Da	ate 35% Designed	l.		30-NOV-01
(e) Da	ate Design Comple	ete		10-APR-02
(f) En	ergy Study/Life-Cy	cle analysis was/will be perf	ormed	YES
(2) Basis:				
(a) St	andard of Definitiv	e Design -		NO
(b) W	here Design Was	Most Recently Used -		
(3) Total	Cost (c) = (a) + (t	o) or(d) + (e):		(\$000)
(a) Pr	oduction of Plans	and Specifications		1,260
(b) Al	Other Design Co	sts		630
(c) To	otal			1,890
(d) Co	ontract			1,690
(e) In	-house			200
(4) Constr	ruction Contract Av	ward Date		02 Jun
(5) Constr	uction Stat-I			02 Aug
(6) Constr	ruction Completior	ı		03 Dec
which is c		oject Definition with Paramet itional 35% design to ensure		
	sociated with this p	project will be provided from	other	
appropriations:			FISCAL YEAR	
EQUIPME NOMENCLAT		PROCURING APPROPRIATION	APPROPRIATE OR REQUESTE	
	PMENT	3400	2004	400

1. COMPONENT AIR FORCE											
	3. INSTALLATION AND LOCATION 4. COMMAND HILL AIR FORCE BASE, UTAH AIR FORCE MATERIEL COMMAND								5. AREA CONST COST INDEX 1.03		
			_		OTUDE	UTO					
6. PERSONNEL STRENGTH	OFF	MANENT FNI	CIV	OFF	STUDE FNI	CIV	OFF	SUPPC FNI		TOTAL	
a. As of 30 Sep 00	684	4,094	3,751	OFF		4,702	1,740	28,460			
b. End FY 2005	664	4,399	3,626			4,702	1,740	28,620			
D. EIIG FT 2005	004	4,399					3,489	4,702	1,740	20,020	
				VENTOR	Y DATA	\$(000)					
a. Total Acreage		6,973	3								
b. Inventory Totals a	s of: 30	Sep 00							701.906		
c. Authorization Not Yet In Inventory: 6,3											
d. Authorization Req			-						14,000		
e. Authorization Incl	uded In I	Following	Program	n: (FY200	3)				0		
f. Planned in Next Fo	•	am Years	:						44.200		
a. Remainina Deficiency: <u>313.000</u>											
h. Grand Total:								1	,079,468		
CATEGORY CODE PRO	CODE PROJECT TITLE SCOPE \$(000) START CMP										
							Total \$	14,000	_		
9a. Future Projects: Ii	ncluded i	n the Fol	lowing P	rogram: (FY2003)	N	lo Projects				
9b. Future Projects: T				_							
	Maintena			i icais		9,908	SM	\$30,000			
	idate Mis	-		ities		3,535		\$14,200			
									75		
9c. Real Property Maintenance Backlog This Installation 75 10. Mission or Major Functions: Ogden Air Logistics Center which is responsible for logistics management, support, and depot-level maintenance of tactical missiles, F-16 aircraft, Minuteman and Peacekeeper ICBMs, AN/FPS-117 Radar, Composite (including B-2 Composites), Power Systems, and Software workload; a test squadron with F-16, HH-1, MH-60, and HC/NC-130 aircraft; an air base wing; an Air Combat Command fighter wing with three F-16 squadrons; and an Air Force Reserve fighter wing with one F-16 squadron.											
11. Outstanding pollu	tion and s	safety (O	SHA) de	ficiencies:							
a. Air pollution									0		
b. Water pollution	1								0		
c. Occupational S	afety and	d Health							0		
									•		

1. COMPONENT	ENT FY 2002 MILITARY CONSTRUCTION PROJECT DATA 2. DATE								
AIR FORCE	(computer generated)								
3. INSTALLATION HILL AIR FORCE E		Ή	CONSO REPAIR	IECT TITLE PLIDATE HYDA R FACILITY	RAULIC/PNE	UDRAULIC			
5. PROGRAM ELE	MENT	6. CATEGORY CODE 7. PR	OJECT	NUMBER	8. PROJEC	T COST (\$000)			
72976		•	RSM99	3100		14,000			
		9. COST ESTI	MATES		UNIT	0007			
	I	TEM	U/N	QUANTITY	COST	COST (\$000)			
CONSOLIDATE HY	DRAULIC	/PNEUDRAULIC REPAIR FAC	SM	4,647		7,766			
TEST/SHOP ARI	EA		SM	2.838	1,165	(3,306			
CLEAN ROOMS			SM	1,809	2,450	(4,432			
ANTITERRORISM	/ FORCE	PROTECTION	SM	4.647	6	(28			
SUPPORTING FAC PAVEMENTS/SIT COMMUNICATIO ELECTRICAL SU UTILITIES DEMOLITION ASBESTOS REM SUBTOTAL CONTINGENCY (TOTAL CONTRACT SUPERVISION, INS	E IMPRO NS SUPP IBSTATION IOVAL 5.0%) COST	ORT	LS LS LS SM LS	4,766	150	4,830 (870 (60 (1,900 (760' (715) (525) 12,596 630 13,226 754			
TOTAL REQUEST TOTAL REQUEST EQUIPMENT FROM		,				13,980 14,000 (971)			
masonry walls, and area. training areas	l a standin , and a ha	Construction: Construct a two stu g seam metal roof. Includes sup zardous waste storage area. Co	oport sho	ops, test areas electrical subs	s, clean rooms station. Demol	s, administration			

area. training areas, and a hazardous waste storage area. Construct electrical substation. Demolish thre (4,766 SM). Comply with **DoD** interim minimum force protection construction standards.

11. REQUIREMENT: 4,647 SM ADEQUATE: SM SUBSTANDARD: 6,014 SM

PROJECT: Consolidate hydraulic/pneudraulic repair facility. (Current Mission)

<u>REQUIREMENT:</u> This base has been designated as the Technical Repair Center (TRC) for the Air Force for all nydraulic/pneudraulic workloads. A facility is required to consolidate and relocate the existing workload to the ndustrial area of the base and provide for the testing, repair, overhaul, and maintenance of hydraulic/pneudraulic components for all active Air Force aircraft systems, as well as Minuteman, Air Launch Cruise Missiles (ALCM), and Advanced Cruise Missiles. The facility will include areas for shipping and receiving, assembly/disassembly, est setup and operation, support shops, clean rooms, training, administration, and hazardous waste storage. Comply with DoD interim minimum force protection construction standards.

<u>CURRENT SITUATION:</u> At present the hydraulic/pneudraulic workload is spreadout in five widely dispersed NWII facilities located seven miles apart on the East and West areas of the base. The existing facilities are composed of numerous small, narrow, isolated cells designed for munitions manufacturing and are poorly configured to accomodate the efficient equipment layout and process flow needed for their current use. Items hat require plating and machining must be routed to the east industrial area, a distance of seven miles, which greatly slows down the flow of parts through the repair process. Existing clean rooms are inadequate to support he repair and assembly of the various close tolerance hydraulic components and an industrial waste system is not available in the west area facilities. The existing hydraulic/pneudraulic work areas are currently utilized to

1. COMPONENT		FY 2002 MILITARY CON	ISTR	UCTION PROJECT DA	ATA	2. DATE
AIR FORCE		(compu	iter g	enerated)		
3. INSTALLATION HILL AIR FORCE B				4. PROJECT TITLE CONSOLIDATE HYD REPAIR FACILITY	RAULIC/PNE	EUDRAULIC
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. P	ROJECT NUMBER	8. PROJEC	CT COST (\$000)
72976		21 l-252		KRSM993100		14,000
	•	existing on-base capabilit	•		ditional hydra	ulic/pneudralic

their maximum capacity. The existing on-base capability does not allow for any additional hydraulic/pneudralic taskings to be accomplished at Hill AFB. Also, with the added flow times for maintenance and repair, many hours of overtime are needed to support the current workload.

<u>IMPACT IF NOT PROVIDED</u>: As the TRC for the Air Force hydraulic/pneudraulic repairs, additional workload planned to come to Hill AFB cannot be accommodated on the base. Additional items to be repaired will have to be contracted out at increased costs. The inefficient configuration of the process layout will continue to add additional flow days to the repair process. If the facility is not constructed, the current overtime of approximately 9,500 man-hours will continue at a cost of over \$250,000 per year.

<u>ADDITIONAL:</u> 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 operation. Based on the new present values and benefits of the respective alternatives, new construction was found to be the most cost effective. The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review on 19 May 1999. Base Civil Engineer: Col Per Korslund (801) 777-3071. Test/Shop Area: 2,838 SM = 30.537 SF: Clean Rooms: 1,809 SM = 19,465 SF. Design Build - Design Cost (4% of Subtotal Cost): \$504,000.

1. COMPONENT	FY 2002 MILI	TARY CONSTRUCTION PF	ROJECT DATA		2. DATE
AIR FORCE		(computer generated)			
3. INSTALLATION					
HILL AIR FORCE E	BASE, UTAH				
4. PROJECT TITLE	DRAULIC/PNEUDRAUL	IC REPAIR FACILITY			ROJECT NUMBER
JONGOLIDATE				n n	N310993100
12. SUPPLEMEN	NTAL DATA:		De	esign l	Build
a. Estimated	I Design Data:				
(1) Projec	t to be accomplished t	by design-build procedur	es		
(2) Basis:					
(a) Sta	andard of Definitive De	esign -			NO
(b) WI	nere Design Was Mos	t Recently Used -			
(3) Desigr	Allowance				560
(4) Constr	uction Contract Award	Date			01 Dec
(5) Constr	uction Start				02 Feb
(6) Constr	uction Completion				03 Aug
(7) Energy	Study/Life-Cycle ana	lysis was/will be performe	ed		YES
b. Equipment ass appropriations:	ociated with this proje	ect will be provided from	other		
EQUIPMEN NOMENCLAT		PROCURING APPROPRIATION	FISCAL YE APPROPRIA OR REQUES	TED	COST (\$000)
INITIAL OUTFIT	TING EQUIPMENT	3400	200	4	781
COMM CABLE/E	QUIPMENT	3080	200	4	190

1. COMPON AIR FORC		FY2	002		RY CONS		ON PRO	OGRAN	1		2. DAT	Ε
3. INSTALLA LANGLEY A				NIA	4. COMM AIR COM		MMAN	D			-	A CONST INDEX
								_				0.95
6. PERSON			MANENT			STUDEN					ORTED	
STRENGT		OFF	FNL		OFF	ENI	CIV			<u>FNI</u>	CIV.	TOTAL
a. As of 30 \$	-	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
			0.450		IVENTOR'	Y DATA S	6(000)					
a. Total Acre	-	- of: 20	3,152 Son 00	2								
 b. Inventory c. Authorizati 			-								309.516 24,548	
d. Authorizati				gram:							47,300	
e. Authorizat	-		-		n: (FY2003	3)					38,150	
f. Planned in		•	am Years	:							27.700	
a. Remainina		encv:								_	91.500	-
h. Grand Tota		al ina dia ina	Due ene rea	EV2002							538,714	
8. Projects R CATEGORY	equeste	a in this	Program:	F 12002						COST	DESIGN	STATUS
CODE	PRO	JECT TI	TLE			SC	OPE				START	СМР
211-152	F-22 Lo	ow Obser	v. Restora	ation & C	omp Rpr F	ac	3,945	SM	\$^	6,000	MAR 00	SEP 01
211-175		-	and Mai	ntenance	Facility		7,867	SM	\$1	9,000	MAR 00	SEP 01
	Dormito	•						RM		\$8,300	MAR 00	SEP 01
845-362	F-22 U	pgrade F	lightline Ir	nfrastruct	ure		1	LS Total		54,000 7,300	MAR_00	SEP 01
9a. Future Pro	piects: li	ocluded i	n the Foll	owing P	rogram: (E	Y2003)			•	,		
171-212	-			owing r	iogram. (12000)	1 625	SM		¢0 200		Ĩ
		ight Simu	Dps/AMU	/Hongor			1,625 7,779			\$8,200 19,150		
841-000		-	re and Ut	-				LS		10,800		
041-000	F-22 III	nasiruciu		liilles			1	Total		38,150	_	I
9b. Future Pro	niects: T	vnically F	Planned N	lext Four	Years			TULA	4	00,100		
113-321	-		Parking A			6	0,892	SM	\$	10,149		
721-312	Dormito	ory					96	RM		\$9,011		
721-312	Dormito	ory					96	RM		\$8,540		
9c. Real Prop	erty Ma	intenance	Backlog	This Ins	tallation						86	
10. Mission o squadrons; ar Reconnaissar Coordination (n airlift fl ice Cen	ight: an i	ntelligenc	e group:	Aerospace	e Comma	nd and	d Contro	Int	elligenc	e, Surveilla	nce and
11. Outstandir		tion and s	safety (OS	SHA) def	iciencies:							
a. Air pollu											0	
b. Water p	ollution										81,000	
c. Occupa	tional S	afety and	Health								3,300	
	nvironm										0	

1. COMPONENT	FY 2002 MILITARY CON	ISTRUC	TION	PROJECT DA	ТА	2. DATE
AIR FORCE		uter gene			····	
3. INSTALLATION AND LOC LANGLEY AIR FORCE BASE			PRO. DRMIT	JECT TITLE ORY	<u> </u>	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PRC	JECT	NUMBER	8. PROJEC	T COST (\$000)
27596	721-312	MU	HJ023	3000		8,300
	9. COS	T ESTIM	AT'ES			T
r	TFM		U/M	QUANTITY	UNIT COST	COST (\$000)
DORMITORY (96 RM) DORMITORY ANTITERRORISM FORCE	PROTECTION		LS SM LS	3,168	1,592	5,093 (5,043) (5C
SUPPORTING FACILITIES UTILITIES PAVEMENTS SITE IMPROVEMENTS DEMOLITION ACCESS ROAD/COMMUNI OTHER SPECIAL REQUIR			LS LS LS LS LS			2,422 (411 (545 (395 (100 (396 (575
SUBTOTAL CONTINGENCY (5.0%) TOTAL CONTRACT COST SUPERVISION, INSPECTION	\ & OVERHEAD (5.7 %)				7.515 376 7,891 450
FOTAL REQUEST						8,341
FOTAL REQUEST (ROUNDE	D)					8,300
IO. Description of Proposed C valls, standing seam metal roo and communication duct leadir contaminated soil. Includes Do Air Conditioning: 70 KW 11. REQUIREMENT: 1,297 S PROJECT: Construct Dormito	of, site improvements, uti ng to site, special foundat oD minimum interim stan Grade Mix: 96 EI-E4 SM ADEQUATE: 856 S	lities, lan tion, fill to dard foro	dscap eleva e prot	ing, fire protec ate site above acction measu	ction, parking, flood plain, ar	access road
REQUIREMENT: A major A conducive to their proper rest, providing some degree of indivi- complicated and important job- ssential to our readiness post o comply with the DoD interiming CURRENT SITUATION: The inlisted personnel. This project	vidual privacy are essenti s these people must perf ture and continuing world minimum force protectio base has insufficient on-l	well-bein al to the form. The l-wide pro- on standa	ng. Pro succe reten esence rd. sing to	operly designed ssful accompl tion of these l a. Antiterrorism o accommoda	ed and furnish ishment of the nighly trained m/force protect te the unacco	ed quarters e increasingly airmen is ction measures
MPACT IF NOT PROVIDED: vill not be available, resulting i inlisted personnel.	in degradation of morale,	producti	vity, a	nd career sati	sfaction for ur	naccompanied
DDITIONAL: This project tandard known as "one-plus-c	meets the criteria/scope one," established by OSD					

AIR FORCE (computer generated) 3. INSTALLATION AND LOCATION 4. ROJECT TITLE LANGLEY AIR FORCE BASE, VIRGINIA DORMITORY DORMITORY 5. PROGRAM ELEMENT CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27596 721-312 MUHJ023000 8.300 8.300 The development of this project. No other option could meet the mission requirements: therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$30K, FY00 8.700 Jnaccompanied Housing RPM Conducted: \$30K, FUTURe Unaccompanied Housing RPM requirements (estimated): FY01: \$672K; FY02: \$672K, BASE CIVIL ENGINEER: Lt Col Gordon Janied (757)-764-2025. Dormitory: 3,168 SM = 34,088 SF.	3. INSTALLATION AND LOCATION 4. PROJECT TITLE LANGLEY AIR FORCE BASE, VIRGINIA DORMITORY DORMITORY 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27596 721-312 MUHJ023000 8.300 8.300 :he development of this project. No other option could meet the mission requirements; therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K. FYOO Jnaccompanied Housing RPM Conducted: \$130K. Future Unaccompanied Housing RPM requirements (estimated): FY01: \$672K; FY02: \$672K. BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.	1. COMPONENT FY 2002 MILITARY CON		A 2. DATE
LANGLEY AIR FORCE BASE, VIRGINIA DORMITORY 5. PROGRAM ELEMENT b. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27596 721-312 MUHJ023000 8.300 :he development of this project. No other option could meet the mission requirements; therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K. FYOO Jnaccompanied Housing RPM Conducted: \$130K. Future Unaccompanied Housing RPM requirements (estimated): FY01: \$672K; FY02: \$672K. BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.	LANGLEY AIR FORCE BASE, VIRGINIA DORMITORY 5. PROGRAM ELEMENT 5. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27596 721-312 MUHJ023000 8.300 :he development of this project. No other option could meet the mission requirements; therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K. FYOO Jnaccompanied Housing RPM Conducted: \$130K. Future Unaccompanied Housing RPM requirements (estimated): FY01: \$672K; FY02: \$672K. BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.			
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27596 721-312 MUHJ023000 8.300 :he development of this project. No other option could meet the mission requirements; therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K. FYOO Jnaccompanied Housing RPM Conducted: \$130K. Future Unaccompanied Housing RPM requirements (estimated): FY01: \$672K; FY02: \$672K. BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.	5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 27596 721-312 MUHJ023000 8.300 :he development of this project. No other option could meet the mission requirements; therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K. FYOO Jnaccompanied Housing RPM Conducted: \$130K. Future Unaccompanied Housing RPM requirements (estimated): FY01: \$672K; FY02: \$672K. BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.			
27596721-312MUHJ0230008.300:he development of this project. No other option could meet the mission requirements; therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K. FYOO Jnaccompanied Housing RPM Conducted: \$130K. Future Unaccompanied Housing RPM requirements /estimated): FY01: \$672K; FY02: \$672K. BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.	27596721-312MUHJ0230008.300:he development of this project. No other option could meet the mission requirements; therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K. FYOO Jnaccompanied Housing RPM Conducted: \$130K. Future Unaccompanied Housing RPM requirements 'estimated): FY01: \$672K; FY02: \$672K. BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.			
:he development of this project. No other option could meet the mission requirements; therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K . FYOO Jnaccompanied Housing RPM Conducted: \$130K . Future Unaccompanied Housing RPM requirements (estimated): FY01: \$672K ; FY02: \$672K . BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.	:he development of this project. No other option could meet the mission requirements; therefore. no economic analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K . FYOO Jnaccompanied Housing RPM Conducted: \$130K . Future Unaccompanied Housing RPM requirements (estimated): FY01: \$672K ; FY02: \$672K . BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.			
analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K . FYOO Jnaccompanied Housing RPM Conducted: \$130K . Future Unaccompanied Housing RPM requirements (estimated): FY01: \$672K ; FY02: \$672K . BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.	analysis was needed or performed. FY 99 Unaccompanied Housing RPM Conducted: \$0K . FYOO Jnaccompanied Housing RPM Conducted: \$130K . Future Unaccompanied Housing RPM requirements (estimated): FY01: \$672K ; FY02: \$672K . BASE CIVIL ENGINEER: Lt Col Gordon Janiec (757)-764-2025.			
		:he development of this project. No other option co analysis was needed or performed. FY 99 Unacco Jnaccompanied Housing RPM Conducted: \$130K (estimated): FY01: \$672K; FY02: \$672K. BASE C	buld meet the mission requirements mpanied Housing RPM Conducted Future Unaccompanied Housing	s; therefore. no economic : \$0K . FYOO RPM requirements

(a) Data Doog in Called(b) Parametric Cost Estimates used to develop costsYES. (c) Percent Complete as of Jan 0135 %. (d) Date 35% Designed.15-DEC-00(e) Date Design Complete01 -SEP-01(f) Energy Study/Life-Cycle analysis was/will be performedYES(2) Basis:(a) Standard of Definitive Design -YES(b) Where Design Was Most Recently Used -LANGLEY AFB, VA(3) Total Cost (c) = (a) + (b) or(d) + (e):(\$000)(a) Production of Plans and Specifications474(b) All Other Design Costs237(c) Total711(d) Contract592(e) In-house119(4) Construction Contract Award Date01 Dec(5) Construction Start02 Ma	1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
LANGLEY AIR FORCE BASE, VIRGINIA 5. PROJECT NUMBER 4. PROJECT TITLE 5. PROJECT NUMBER DORMITORY MUHJ023000 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 21-MAR-00 (b) Parametric Cost Estimates used to develop costs YES (c) Percent Complete as of Jan 01 35 9 (d) Date 35% Designed. 15-DEC-00 (e) Date Design Complete 01 -SEP-01 (f) Energy Study/Life-Cycle analysis was/will be performed YES (a) Standard of Definitive Design - YES (b) Where Design Was Most Recently Used - LANGLEY AFB, VA (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$0000] (a) Production of Plans and Specifications 474 (b) All Other Design Costs 237 (c) Total 711 (d) Contract 592 (e) In-house 119 (4) Construction Contract Award Date 01 Der (5) Construction Statt 02 Ma (6) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and coct and executability.			
4. PROJECT TITLE 5. PROJECT NUMBER DORMITORY MUHJ023000 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 21-MAR-0 (b) Parametric Cost Estimates used to develop costs YES · (c) Percent Complete as of Jan 01 35 % · (d) Date 35% Designed. 15-DEC-0 (e) Date Design Complete 01 - SEP-01 (f) Energy Study/Life-Cycle analysis was/will be performed YES (2) Basis: (a) Standard of Definitive Design - YES (b) Where Design Was Most Recently Used - LANGLEY AFB, VA (3) Total Cost (c) = (a) + (b) or(d) + (e): (§000) (a) Production of Plans and Specifications 474 (b) All Other Design Costs 237 (c) Total 711 (d) Contract 592 (e) In-house 119 (4) Construction Contract Award Date 01 Dec (5) Construction Start 02 Ma (6) Construction Start 02 Ma (6) Construction Completion 03 Sep • Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to t			
DORMITORY MUHJ023000 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 21-MAR-0 (b) Parametric Cost Estimates used to develop costs YES (c) Percent Complete as of Jan 01 35 9 (d) Date 35% Designed. 15-DEC-00 (e) Date Design Complete 01 -SEP-01 (f) Energy Study/Life-Cycle analysis was/will be performed YES (b) Where Design Was Most Recently Used - LANGLEY AFB, VA (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$000) (a) Production of Plans and Specifications 474 (b) All Other Design Costs 237 (c) Total 711 (d) Contract 592 (e) In-house 119 (4) Construction Contract Award Date 01 Dec (5) Construction Start 02 Ma (6) Construction Completion 03 Sep • Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.			
12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 21-MAR-0 (b) Parametric Cost Estimates used to develop costs YES · (c) Percent Complete as of Jan 01 35 % · (d) Date 35% Designed. 15-DEC-00 (e) Date Design Complete 01 -SEP-01 (f) Energy Study/Life-Cycle analysis was/will be performed YES (a) Standard of Definitive Design - YES (b) Where Design Was Most Recently Used - LANGLEY AFB, VA (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$000) (a) Production of Plans and Specifications 474 (b) All Other Design Costs 237 (c) Total 711 (d) Contract 592 (e) In-house 119 (f) Construction Completion 03 Sep (f) Construction Completion 03 Sep (g) Construction Completion 03 Sep (h) All other Design Of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.			
a. Estimated Design Data: (1) Status: (a) Date Design Started (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (c) Total Cost (c) = (a) + (b) or(d) + (e): (s) All Other Design Costs (c) Total (d) Contract (e) In-house (f) Energy Costs (c) Total (c) Total (d) Contract (e) In-house (f) Construction Completion (f) Construction Completion (f) Energy Study/Life-Cycle analysis was/will be performed (f) Energy Study/Life-Cycle analysis was/will be performed (f) Energy Study/Life-Cycle analysis was/will be performed (g) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - LANGLEY AFB, VA (g) Total Cost (c) = (a) + (b) or(d) + (e): (g) (g) (a) Production of Plans and Specifications (f) Contract (g) Total (g) Contract (g) Contract (g) Construction Completion (g) Construction Completion			W0113023000
(1) Status: (a) Date Design Started 21-MAR-0 (b) Parametric Cost Estimates used to develop costs YES (c) Percent Complete as of Jan 01 35 9 (d) Date 35% Designed. 15-DEC-00 (e) Date Design Complete 01 -SEP-01 (f) Energy Study/Life-Cycle analysis was/will be performed YES (2) Basis: (a) Standard of Definitive Design - (a) Standard of Definitive Design - YES (b) Where Design Was Most Recently Used - LANGLEY AFB, VA (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$000) (a) Production of Plans and Specifications 474 (b) All Other Design Costs 237 (c) Total 711 (d) Contract 592 (e) In-house 119 (4) Construction Contract Award Date 01 Dee (5) Construction Completion 03 Sep • 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 50	12. SUPPLEME	NTAL DATA: Desig	gn, Bid, Build
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(3) Total Cost (c) = (a) + (b) or(d) + (e):(\$000)(a) Production of Plans and Specifications474(b) All Other Design Costs237(c) Total711(d) Contract592(e) In-house119(4) Construction Contract Award Date01 Dec(5) Construction Start02 Ma(6) Construction Completion03 Sep• 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	(a) Sta	andard of Definitive Design -	YES
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(c) Total711(d) Contract592(e) In-house119(4) Construction Contract Award Date01 Dec(5) Construction Start02 Ma(6) Construction Completion03 Sep• 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	(a) Pro	oduction of Plans and Specifications	474
(d) Contract592(e) In-house119(4) Construction Contract Award Date01 Dec(5) Construction Start02 Ma(6) Construction Completion03 Sep• 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	(b) All	Other Design Costs	237
(d) Construction119(e) In-house01 Dec(f) Construction Contract Award Date02 Ma(5) Construction Start02 Ma(6) Construction Completion03 Sep• 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	(c) To	tal	711
(4) Construction Contract Award Date01 Dec(5) Construction Start02 Ma(6) Construction Completion03 Sep• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.03 Sepb. Equipment associated with this project will be provided from other01 Dec	(d) Cc	ontract	592
 (1) Construction Completion (2) Ma (2) Ma (3) Construction Completion (2) Construction (2) Constructine (2) Construc	(e) In-	house	119
 (6) Construction Completion 03 Sep 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 	(4) Constru	uction Contract Award Date	01 Dec
 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 	(5) Constr	uction Start	02 Mar
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	(6) Constr	uction Completion	03 Sep
	which is co	mparable to traditional 35% design to ensure valid scope and	9

1. COMPONENT		FY 2002 MILITARY CONST	TRUCT	ION I	PROJECT DA	ТА	2. DATE
AIR FORCE		(computer	r genera	ated)			
3. INSTALLATION					ECT TITLE		
LANGLEY AIR FOR	RCE BASE	, VIRGINIA	F-2		W OBSERV. I	RESTORATIO	ON & COMP RPR
5. PROGRAM ELE	MENT	6. CATEGORY CODE 7.	PROJ	ECT	NUMBER	8. PROJEC	T COST (\$000)
27219		211-152	HAC	C023	B010		16,000
		9. COST E	STIMAT	res			
	I	TEM		U/M	QUANTITY	UNIT COST	COST (\$000)
F-22 LOW OBSER	V. RESTO	RATION AND COMPOSITE	RP	LS			6,150
SMALL AIRCRAF	T HANGA	٨R		SM	3,385	1,515	(5,128
COMPOSITE RE	PAIR FAC	CILITY		SM	560	1,770	(991
ANTITERORRIS	M FORCE	PROTECTION		LS			(31
SUPPORTING FAC	_						8.253
UTILITIES AND	SITE IMPI	ROVEMENTS		LS			(2,528
PAVEMENTS	N			LS LS			(149
PAINT BOOTH (2 DEMOLITION AN		EMEDIATION		LS			(4,956' (620)
SUBTOTAL							14,403
CONTINGENCY (5.0%)						720
TOTAL CONTRACT	COST						15,124
SUPERVISION, INS	SPECTION	N & OVERHEAD (5.7 %)					862
TOTAL REQUEST							15,986
TOTAL REQUEST	(ROUNDE	D)					16,000
steel hangar, standi wo aircraft paint bo	ng seam n oths, paint	Consfruction: Work includes netal roof, steel sheet and m mixing room, composite rep nain, and anti-terrorism/force	nasonry pair are	sidir a, sp	ng, security an ecial HVAC, c	d all utility su	pport. Includes

Air Conditioning: 220 KW

11. REQUIREMENT: 3,945 SM ADEQUATE: SM SUBSTANDARD: 2,240 SM

PROJECT: F-22 low observable/composite repair facility. (New Mission)

<u>REQUIREMENT</u>: An adequate facility, properly sized and configured, for the maintenance and repair of low observable and composite materials on the F-22 is required. The F-22 is designed with state-of-the-art echnology and composite materials to meet stealth mission requirements. These aircraft composites have unique materials, maintenance procedures and stringent coating application techniques that must be accomplished in a specialized facility. Due to the application techniques and environmental impacts, paint pooths and a complex HVAC system is required. In addition, the classification of these materials requires the nstallation of security systems. This project supports personnel and equipment arrival in Mar 04 to prepare the acility for aircraft delivery in Sep 04. Delivery preparations include establishing maintenance procedures and completing security accreditation. Site requires abatement of contaminated soil. Antiterrorism/force protection neasures will meet DoD interim minimum standards.

<u>CURRENT SITUATION</u>: There are no facilities on base that can meet or support the maintenance and repair of stealthy composite materials and the application of low observable coatings associated with the F-22 multi-roled ighter. The facilities currently used for the corrosion control of existing weapon systems are undersized and nadequate for the F-22. The washing, preparation and painting of existing assets are accomplished in three separate facilities that have no support space. In addition, these facilities do not have space to establish the ritical composite repair shop. There are no excess hangars that can be converted to meet this requirement.

1. COMPONENT		FY 2002 MILITARY CON	STR	JCTION PROJECT DA	ATA	2. DATE
AIR FORCE		(compu	iter g	enerated)		
3. INSTALLATION LANGLEY AIR FOR				4. PROJECT TITLE F-22 LOW OBSERV. FAC	RESTORAT	ON & COMP RPR
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. P		8. PROJEC	CT COST (\$000)
27219		211-152		HACC023010		16,000

Existing hangars throughout the flightline area are essential aircraft maintenance hangars utilized at their full capacity.

<u>IMPACT IF NOT PROVIDED</u>: Adequate facilities will not be available to perform essential maintenance and **repair** of F-22 aircraft. There are no known workarounds to maintain the F-22 at full operational capability for **Expeditionary** Air Force deployments. The operational readiness of the Fighter Wing will be significantly reduced and the wing may not be able to meet mission requirements.

<u>ADDITIONAL:</u> Force protection includes structural reinforcement of exterior walls and tempered insulated glass windows. 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 certificate of exception was prepared. This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." Base Civil Engineer: Lt Col Edmond B. Keith, (757) 764-2025. Small Aircraft Hanger, 3,385 SM = 36,423 SF; Composite Repair Facility, 560 SM = 6,026 SF.

AIR FORCE . (computer 3. INSTALLATION AND LOCATION	generated)	
LANGLEY AIR FORCE BASE, VIRGINIA	5. PROJECT NUM	BER
4. PROJECT TITLE -22 LOW OBSERV. RESTORATION & COMP RPR FAC	HACC023010	DER
	1000020010	
12. SUPPLEMENTAL DATA:	Design, Bid, Build	
a. Estimated Design Data:		
(1) Status:		
(a) Date Design Started	21-MAR	-00
(b) Parametric Cost Estimates used to de	evelop costs Y	ΈS
. (c) Percent Complete as of Jan 01	15	5 %
. (d) Date 35% Designed.	01 -SEP	'-00
(e) Date Design Complete	01 -SEP	-01
(f) Energy Study/Life-Cycle analysis was/	will be performed Y	ΈS
(2) Basis:		
(a) Standard of Definitive Design -		NO
(b) Where Design Was Most Recently Us	sed -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	(\$0)	00)
(a) Production of Plans and Specification	s 9	00
(b) All Other Design Costs	4	50
(c) Total	1,3	50
(d) Contract	1,1	25
(e) In-house		25
(4) Construction Contract Award Date	01 D	
(5) Construction Start	02 N	
(6) Construction Completion	03 S	ep
 Indicates completion of Project Definition wire which is comparable to traditional 35% design cost and executability. 		
b. Equipment associated with this project will be prov	vided from other	
appropriations: N/A		

1. COMPONENT	FY 2002 MILITARY CONST	FRUCTION	PROJECT DA	TA	2. DATE
AIR FORCE	(computer	generated)			
3. INSTALLATION AND LE LANGLEY AIR FORCE BAS			ECT TITLE PERATIONS A		NANCE FACILIT
5. PROGRAM ELEMENT	6. CATEGORY CODE 7.	PROJECT	NUMBER	8. PROJEC	T COST (\$000)
27219	211-175 9. COST E	HACC023	8011		19,000
	JITEM		QUANTITY	UNIT COST	COST (\$000)
F-22 SQUADRON OPERA	IONS/AMU/ HANGAR	LS			10,78
SMALL ACFT MAINTEN		SM	4,250	1,315	
SQUADRON OPERATIC	NS/AMU	SM	2,641	1,389	(3,668
BASE OPERATIONS		SM	976	1,509	(1,473
ANTITERRORISM FORC	E PROTECTION	LS			(53
SUPPORTING FACILITIES UTILITIES/SITE IMPRO		LS			6,178 (1,850
RELOCATE AIRFIELD L	GHTING VAULT	LS			(1,20
		SM	7,325	169	(-,
	IER REQUIRED SUPPORT	LS			(1.890
					16,961
CONTINGENCY (5.0%)					848
TOTAL CONTRACT COST SUPERVISION, INSPECTI	ON & OVERHEAD (5.7 %)				17,809 1,015
TOTAL REQUEST					18,824
TOTAL REQUEST (ROUNE	DED)				19,000
valls, standing seam metal paint/asbestos/contaminate	d Construction: Construct spec roof, secure work areas, fire s d soil abatement, demolish ex es antiterrorism force protection	suppression/ isting facility	detection, and (7,325 SM)	d HVAC. Com and support u	plete lead
Air Conditioning: 225 KW					
11. REQUIREMENT: 7,86	7 SM ADEQUATE: SM SU	BSTANDAR	D: SM		
PROJECT: F-22 squadron	operations/AMU/hangar. (New	Mission)			
s required to support the be composite materials. The F accomplished in a secure,	blidated squadron operations a addown of the F-22 Fighter. Th -22 requires specialized mainted climate controlled work enviror facility for aircraft delivery in S	ne F-22 is de enance and nment. This	esigned with s repair proced project suppo	state-of-the-art ures that mus rts personnel	t technology and at be and equipment

arrival in Mar 04 to prepare facility for aircraft delivery in Sep 04. Delivery preparations begin in Mar 04 to stablish maintenance procedures, complete security accreditation, install data automation systems, computerized maintenance diagnostic equipment, furniture, phone and other appurtences. The airfield lighting rault, currently in the hangar to be demolished, must be relocated. The project site requires abatement of contaminated soil. Antiterrorism/force protection measures will be incorporated to meet the Department of Defense interim minimum MILCON standard.

<u>CURRENT SITUATION:</u> The base does not have adequate facilities to conduct squadron level maintenance and perations for the F-22 fighter squadron. Over the last ten years the Air Force has experienced significant estructuring of its combat wings. These changes shifted roles and responsibilities for maintaining and operating urcraft. Under the Objective Wing, the majority of aircraft maintenance was realigned from logistics to operations vhere the maintainers now work for the operational flying squadrons. Under the Expeditionary Air Force concept

1. COMPONENT	F	Y 2002 MILITARY CON	ISTRUCTION PROJECT DA	ATA 2. DATE
AIR FORCE		(compu	ter generated)	
3. INSTALLATION	AND LOC	ATION	4. PROJECT TITLE	
ANGLEY AIR FOR	CE BASE,	VIRGINIA	F-22 OPERATIONS	AND MAINTENANCE FACILI
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000
27219		211-175	HACC023011	19,000
nome station. Curre n poor condition, ar squadrons. The exis operate properly, ro electrical systems a systems are non-ex configured to accom required distance cl	ent squadro nd are not o sting hanga ofs leak, le re inadequa istent. In ad imodate the earances o	n operations and mainte configured properly to su rs are over 70 years old ad paint and asbestos a ate, exterior masonry wa ddition to their poor cond e wider F-22 without viol f the current aircraft. Th	enance facilities are geogra pport the high OPSTEMPO and are also in very poor re present, lighting is subst alls are deteriorating, and fir	condition. Hangar doors do n andard, mechanical and e protection and security equately sized and improperly ngars do not comply with tes this problem.
epair of F-22 aircra naintenance function ncreases with a frag	aft. Operation ons creating gmented op	onal squadrons will be u operational deficiencies peration. Since there are	ndersized and geographical s. In addition, the potential	ly separated from their to compromise security ds , high risk solutions will be
analysis is not requ outlined in Air Force 757) 764-2025. Sq	ired. A cert Handbook uadron Ope	ificate of exemption has < 32-1084, "Facility Requ	uirements." Base Civil Engir e; 3,059 SM = 32,915 SF; /	transferred to the criteria and scop heer: Lt Col Edmond B. Keith Aircraft Maintenance Hangar;

12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 21-MAR-C (b) Parametric Cost Estimates used to develop costs YE . (c) Percent Complete as of Jan 01 15 ⁻¹ . (d) Date 35% Designed. 01-SEP-C (e) Date Design Complete OI-SEP-O (f) Energy Study/Life-Cycle analysis was/will be performed N (2) Basis: (a) Standard of Definitive Design - N (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$000 (a) Production of Plans and Specifications 1.080 (b) All Other Design Costs 544 (c) Total 1.622 (d) Contract 1.356 (e) in-house 277 (4) Construction Contract Award Date 01 Dec 02 Materet 01 Dec (b) Construction Contract Award Date 01 Dec 02 Materet 03 Sec (b) Construction Completion 03 Sec 03 Sec 04 Materet 04 Dec (b) Construction Completion 03 Sec 03 Sec 04 Materet 04 Dec (b) Construction Completion 03 Sec 03 Sec 04 Materet	PROJECT TITLE 5. PROJECT NUME F22 OPERATIONS AND MAINTENANCE FACILITY HACC023011 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 21-MAR- (b) Parametric Cost Estimates used to develop costs YE . (c) Percent Complete as of Jan 01 15 . (d) Date 35% Designed. 01-SEP-0 (e) Date Design Complete OI-SEP-0 (f) Energy Study/Life-Cycle analysis was/will be performed N (2) Basis: (a) Standard of Definitive Design - N (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$00 (a) Production of Plans and Specifications 1.08 1.02 (b) All Other Design Costs 54 1.62 (c) Total 1.62 1.62 (d) Contract 1.35 27 (e) in-house 27 27 (f) Construction Contract Award Date 01 Date Secompletion (f) Construction Completion 03 Sec . Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.		
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(e) Influese01 De(f) Construction Contract Award Date02 Ma(5) Construction Start02 Ma(6) Construction Completion03 Se• Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.04 Deb. Equipment associated with this project will be provided from other01 De	 (e) Inflotse (f) Construction Contract Award Date (f) Construction Start (f) Construction Completion (f) Construction Completion (f) Construction Completion (f) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability. (f) Equipment associated with this project will be provided from other 	(d) Contract	1,350
 (4) Construction Contract Award Date (5) Construction Start (6) Construction Completion (6) Construction 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 	 (4) Construction Contract Award Date (5) Construction Start (6) Construction Completion (6) Construction 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 	(e) in-house	270
 (6) Construction Completion O3 Se 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 	 (6) Construction Completion O3 Se 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 	(4) Construction Contract Award Date	01 Dec
 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 	 . 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 	(5) Construction Start	02 Mar
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	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	(6) Construction Completion	03 Sep
		which is comparable to traditional 35% design to ensure	
			n other

1. COMPONENT	FY 2002 MILITARY CON				тл	2. DATE
						Z. DATE
AIR FORCE	(compu	uter ge	enerated)			
3. INSTALLATION AND LO				ECT TITLE		
LANGLEY AIR FORCE BASE	E, VIRGINIA		F-22 UP	GRADE FLIG	HTLINE INF	RASTRUCTURE
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. Pl	ROJECT	NUMBER	8. PROJEC	T COST (\$000)
27219	845-362		HACC023	012		4.000
	9. COS	T EST	TIMATES			
	ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
IF-22 UPGRADE FLIGHTLIN	E INFRASTRUCTURE		LS			0
SUPPORTING FACILITIES						3.595
FIRE PROTECTION			LS			(1.700
SEWER SYSTEM			LS			(220
COMMUNICATION			LS			(295
FLIGHTLINE SECURITY			LS			(298
ELECTRICAL DISTRIBUTI	ON		LS			(228
ROADWAY/PARKING			LS			(346
AIRFIELD PAVEMENTS			LS			(508
SUBTOTAL						3,595
CONTINGENCY (5.0%)						180
IFOTAL CONTRACT COST						3,775
SUPERVISION, INSPECTION	& OVERHEAD (5.7 %))				215
f OTAL REQUEST						3,990
TOTAL REQUEST (ROUNDE	D)					4,000

10. Description of Proposed Construction: Add to, alter, repair utility systems, pavements. Work includes; new fire pump station with reservoir and distribution systems, concrete encased communication duct banks, flightline **security**, upgrade electrical distribution grid, roads and parking, airfield pavements, landscaping, test and **abatement** of contaminated soil in the way of construction.

11. REQUIREMENT: As required

PROJECT: Add to, alter, and repair utilities, pavements and security systems supporting F-22. (New Mission)

REQUIREMENT: Adequate utilities and infrastructure properly sized and configured are required to support the three phase F-22 beddown and associated MILCON projects in FY02/03/04. 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 and flightline security systems are required for the protection, maintenance and operations of the F-22 Weapon System. This project supports FY02/03/04 F-22 MILCON projects, delivery of first aircraft in FY04 and personnel and equipment arrival in Mar 04 to prepare facility for aircraft delivery and establish maintenance procedures. This project is required in the same fiscal year as the two FY02 companion MILCON projects to construct an F-22 LO/Composite Repair Facility and F-22 operations and maintenance facility with attached 6 bay aircraft hangar.

<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. The companion MILCON projects are adjacent to Installation Restoration Program sites. **Upgrades**, replacement and/or extension of utility systems will run through contaminated soil. The project will require testing, removal and abatement of the contaminated soils in way of construction. In addition, access roads and airfield pavements will be cut/trenched to support utility installations.

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

1. COMPONENT		FY 2002 MILITARY CON	ISTRU	CTION PROJECT D/	ATA	2. DATE
AIR FORCE		(compu	iter ger	nerated)		2. DATE
3. INSTALLATION	AND LOC	ATION	4	. PROJECT TITLE		
LANGLEY AIR FOR				-22 UPGRADE FLIC	GHTLINE INF	RASTRUCTURE
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. PR	OJECT NUMBER	8. PROJE	CT COST (\$000)
27219		845-362	H	ACC023012		4,000
security systems (fe unreliable to suppo lightline security cr	rt sustained	y control points and fighti I operations at the base.	ng), an Base v	d fire protection syst will be non-compliant	ems will be u in the areas	ndersized and of fire protection,
option could meet t certificate of exemp	he mission tion has be	Iternative options were ca requirements; therefore, een prepared. This project ts." Base Civil Engineer:	no eco ct meet	onomic analysis was s the criteria/scope s	needed or p specified in A	erformed. A ir Force Handbool

(b) Parametric Cost Estimates used to develop costs . (c) Percent Complete as of Jan 01 . (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (15) Construction Start	1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
LANGLEY AR FORCE BASE, VIRGINIA I, PROJECT TITLE 5. PROJECT NUM *22 UPGRADE FLIGHTLINE INFRASTRUCTURE HACC023012 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 21-MAI (b) Parametric Cost Estimates used to develop costs . . (c) Percent Complete as of Jan 01 . . (d) Date 35% Designed. 15-SEI (e) Date Design Complete 01 -SE (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Costs (b) All Other Design Costs . (c) Total .	AIR FORCE	(computer generated)		
I. PROJECT TITLE 5. PROJECT NUM *-22 UPGRADE FLIGHTLINE INFRASTRUCTURE 5. PROJECT NUM 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (1) Status: (a) Date Design Started 21-MAI (b) Parametric Cost Estimates used to develop costs . . (c) Percent Complete as of Jan 01 . . (d) Date 35% Designed. 15-SEI (e) Date Design Complete 01 -SE (f) Energy Study/Life-Cycle analysis was/will be performed 01 -SE (g) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (5) Total Cost (c) = (a) + (b) or(d) + (e): (\$ (a) Production of Plans and Specifications (b) All Other Design Costs . (c) Total (d) Contract . . (d) Contract . . . (e) In-house . . . (4) Construction Contract Award Date . . . (b) Construction Completion (c) Construction Completion 	3. INSTALLATION	AND LOCATION		
*:22 UPGRADE FLIGHTLINE INFRASTRUCTURE HACC023012 12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 21-MAI (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 . (d) Date 35% Designed. 15-SEI (e) Date Design Complete 01 -SE (f) Energy Study/Life-Cycle analysis was/will be performed 01 -SE (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (\$) (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$) (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 01 (f) Construction Contract Award Date 01 (g) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and	LANGLEY AIR FOR	CE BASE, VIRGINIA		
12. SUPPLEMENTAL DATA: Design, Bid, Build a. Estimated Design Data: (1) Status: (a) Date Design Started 21-MAI (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 . (d) Date 35% Designed. 15-SEI (e) Date Design Complete 01 -SE (f) Energy Study/Life-Cycle analysis was/will be performed 01 -SE (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (5) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date 01 (5) Construction Start 02 (6) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and			5. PF	ROJECT NUMBER
a. Estimated Design Data: (1) Status: 21-MAI (a) Date Design Started 21-MAI (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 15-SEI (c) Date 35% Designed. 15-SEI (e) Date Design Complete 01 -SE (f) Energy Study/Life-Cycle analysis was/will be performed 01 -SE (g) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 01 (4) Construction Contract Award Date 01 (5) Construction Start 02 (6) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and	-22 UPGRADE FL		F	IACC023012
(1) Status: 21-MAI (b) Parametric Cost Estimates used to develop costs 21-MAI (b) Parametric Cost Estimates used to develop costs 15-SEI (c) Percent Complete as of Jan 01 15-SEI (e) Date Design Complete 01 -SE (f) Energy Study/Life-Cycle analysis was/will be performed 01 -SE (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (5) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 01 (f) Construction Contract Award Date 01 (g) Construction Start 02 (h) Construction Completion 03 (c) Construction Completion 03	12. SUPPLEMEN	NTAL DATA: Desi	gn, Bi	d, Build
(a) Date Design Started21-MAI(b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 0115-SEI(e) Date 35% Designed.15-SEI(e) Date Design Complete01 -SE(f) Energy Study/Life-Cycle analysis was/will be performed02(2) Basis:.(a) Standard of Definitive Design(b) Where Design Was Most Recently Used(3) Total Cost (c) = (a) + (b) or(d) + (e):.(a) Production of Plans and Specifications.(b) All Other Design Costs.(c) Total.(d) Contract.(e) In-house.(f) Construction Contract Award Date.(f) Construction Completion	a. Estimated	Design Data:		
(a) Date Design Started21-MAI(b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 0115-SEI(e) Date 35% Designed.15-SEI(e) Date Design Complete01 -SE(f) Energy Study/Life-Cycle analysis was/will be performed21-MAI(2) Basis:01 -SE(a) Standard of Definitive Design -01(b) Where Design Was Most Recently Used -(3)(3) Total Cost (c) = (a) + (b) or(d) + (e):(\$(a) Production of Plans and Specifications(b) All Other Design Costs(c) Total(d) Contract(e) In-house01(f) Construction Contract Award Date01(f) Construction Completion03. indicates completion of Project Definition with Parametric Cost Estimatewhich is comparable to traditional 35% design to ensure valid scope and				
(b) Parametric Cost Estimates used to develop costs . (c) Percent Complete as of Jan 01 . (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (5) Construction Start (6) Construction Completion (a) indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and	(1) Status	:		
. (c) Percent Complete as of Jan 01 15-SEI . (d) Date 35% Designed. 15-SEI (e) Date Design Complete 01 -SE (f) Energy Study/Life-Cycle analysis was/will be performed 01 -SE (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (\$) (a) Production of Plans and Specifications (\$) (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date 01 (5) Construction Start 02 (6) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and		•		21-MAR-00
. (d) Date 35% Designed. 15-SEI (e) Date Design Complete 01 -SE (f) Energy Study/Life-Cycle analysis was/will be performed 01 -SE (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (f) Construction Completion 03 . (b) Construction Completion 03 . indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and	(b) Pa	rametric Cost Estimates used to develop costs		YES
(a) Date Gors Decigned. 01 -SE (b) Date Design Complete 01 -SE (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 01 (f) Construction Contract Award Date 01 (f) Construction Completion 02 (f) Construction Completion 03 . indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and	. (c) Pe	rcent Complete as of Jan 01		15 %
(f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (b) Construction Start (c) Construction Start (c) Construction Completion	. (d) Da	te 35% Designed.		15-SEP-00
 (i) Energy of day, Energy o	(e) Da	te Design Complete		01 -SEP-01
 (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (f) Construction Start (g) Construction Completion (g) Construction Completion (g) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and 	(f) Ene	ergy Study/Life-Cycle analysis was/will be performed		YES
(b) Where Design Was Most Recently Used -(3) Total Cost (c) = (a) + (b) or(d) + (e):(a) Production of Plans and Specifications(b) All Other Design Costs(c) Total(d) Contract(e) In-house(4) Construction Contract Award Date(5) Construction Start(6) Construction Completion. indicates completion of Project Definition with Parametric Cost Estimatewhich is comparable to traditional 35% design to ensure valid scope and	(2) Basis:			
 (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (5) Construction Start (6) Construction Completion (6) Construction Completion (7) indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and 	(a) Sta	andard of Definitive Design -		NO
 (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (5) Construction Start (6) Construction Completion . indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and 	(b) Wł	ere Design Was Most Recently Used -		
 (a) Froduction of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (4) Construction Contract Award Date (5) Construction Start (6) Construction Completion . indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and 	(3) Total (Cost (c) = (a) + (b) or(d) + (e):		(\$000)
 (b) All Other Design Costs (c) Total (d) Contract (e) In-house (f) Construction Contract Award Date (f) Construction Start (f) Construction Start (g) Construction Completion (g) Construction Completion (g) Construction of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and 	(a) Pro	oduction of Plans and Specifications		228
(c) Total(d) Contract(e) In-house(4) Construction Contract Award Date(5) Construction Start(6) Construction Completion. indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and	(b) All	Other Design Costs		114
(d) Contract(e) In-house(4) Construction Contract Award Date(5) Construction Start(6) Construction Completion• indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and	(c) To	tal		342
(4) Construction Contract Award Date01(5) Construction Start02(6) Construction Completion03. indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and	(d) Cc	ontract		285
(4) Construction Contract Award Date 02 (5) Construction Start 03 (6) Construction Completion 03 . indicates completion of Project Definition with Parametric Cost Estimate 03 which is comparable to traditional 35% design to ensure valid scope and 03	(e) In-	house		57
 (6) Construction Completion . indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and 	(4) Constru	uction Contract Award Date		01 Dec
 indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and 	(5) Constr	uction Start		02 Mar
which is comparable to traditional 35% design to ensure valid scope and	(6) Constr	uction Completion		03 Jul
	which is co	omparable to traditional 35% design to ensure valid scope and	e	
b. Equipment associated with this project will be provided from other appropriations: N/A				

1. COMPONENT AIR FORCE	FY2	002		RY CONS uter gener		ON PRC	GRAM		2. DATE	Ξ
3. INSTALLATION A	ND LOC	ATION		4. COMM	IAND				5. AREA	A CONST
FAIRCHILD AIR FO	ORCE BA	SE,		AIR COM	ИВАТ СО	MMANE)		COST	INDEX
WASHINGTON										1.06
6. PERSONNEL	PER	RMANENT	•		STUDE	NTS		SUPP	ORTED	
STRENGTH	OFF	FNI	CIV	OFF	FNI	CIV	OFF	FNI	CIV	TOTAL
a. As of 30 Sep 00	391	2,941	834				264	332	122	4,884
b. End FY 2005	383	2,947	841				264	332	122	4.889
			7. 1	VENTOR	Y DATA S	6(000)			-	
a. Total Acreage		5,823								
b. Inventory Totals a	as of: 30								490.080	
c. Authorization Not									50,760	
d. Authorization Req	uested In	this Prog	gram:						2,800	
e. Authorization Incl	luded In	Following	Program	n: (FY200	3)				0	
f. Planned in Next Fo	our Progra	am Years	:						23.000	
a. Remainina Deficie	encv:							_	37,000	
h. Grand Total:									603,640	
8. Projects Requeste	d in this	Program:	FY2002						DEOLON	07.07110
CATEGORY	JECT TI	тіг							DESIGN	
OODL		ns Maint	Admin E		50	OPE	SM	\$2,800	START	CMP N KEY
610-144 Replac				aciiity		1,135	Total	\$2,800		NKET
							Total	ψ2,000		
9a. Future Projects: I	ncluded i	n the Foll	owing P	rogram: (F	Y2003)	N	o Projects			
9b. Future Projects: 1				r Years				• • • • • • •		
		obility Fac	•			8,309		\$15,000		
61 O-243 Mission	n Support	Complex				3,009	SM	\$8,000		
9c. Real Property Ma	aintenance	e Backlog	This In	stallation					70	
10. Mission or Major	Function	s: An air r	efueling	wing with	four KC-1	35 sq	uadrons; a	UH-1 sc	quadron; a	WA ANG
KC-135 squadron: h										
11. Outstanding pollu a. Air pollution	ation and	sarety (OS	SHA) de	liciencies:					^	
b. Water pollution									0	
c. Occupational S		t Haalth							0	
	-								0	
d. Other Environr	nentai								0	

1. COMPONENT	F	TY 2002 MILITARY CON	ISTRUCTIO	ON I	PROJECT DA	TA	2. DATE
AIR FORCE			iter genera				2. 0/(12
3. INSTALLATION FAIRCHILD AIR FO				PLAC	ECT TITLE CE MUNITION	S MAINTEN	ANCE ADMIN
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. PROJE	ЕСТ	NUMBER	8. PROJEC	T COST (\$000)
22176		610-144	GJKZ	2000	040		2,800
		9. COST	T ESTIMATE	ES			
	IT	EM	L	J/M	QUANTITY	UNIT COST	COST (\$000)
MUN MAINT ADMIN MUN MAINT MAII FORCE PROTEC	NT ADMIN		S	SM SM L S	1,135 1.135	1,47 1,471	8 1,678 (1,67C (8
SUPPORTING FAC UTILITIES PAVEMENTS SITE IMPROVEM DEMOLISH BUILT	ENTS		L	- - - - - - - - - - - - - - - - - - -			844 (275 (125 (175 (269
SUBTOTAL CONTINGENCY (TOTAL CONTRACT SUPERVISION INS	COST	& OVERHEAD (6 %)					2,522 126 2,648 159
TOTAL REQUEST							2,807
and utility systems, s necessary support. Air Conditioning: 25	site work la	onstruction: Concrete for ndscaping, fire detection	n/protection,	, de	molish three fa		
		M ADEQUATE: SM SI					
REQUIREMENT: Explosive Safety Sta Due to the life safety	This projec ndards, an hazard ca	ons Maintenance Admini t will ensure the MMA fa d Department of Defens used by munitions opera Il comply with DoD interi	cility compl e 6055.9, [ations, the N	lies DoD MMA	with Air Force Explosive Saf A must be mov	ety Board (D ed outside th	DESB) surveys.

<u>CURRENT SITUATION:</u> The existing MMA facilities were built in 1955 and 1957 and are masonry construction. **3oth** facilities are in the explosive clear zone of the Missile Assembly/Integrated Maintenance facility. This is in *i*olation of Air Force and **DoD** explosive safety guidance and regulations. Also, during surveys in 1994 and 1997, he DDESB determined the two facilities are unsafe with respect to glass hazard overpressure limits. This project **vill** consolidate functions into a single facility outside the explosive clear zone.

<u>MPACT IF NOT PROVIDED</u>: Personnel will continue to work in a hazardous environment. In the event of a najor explosion in the Missile Assembly Shop/Integrated Maintenance facility, broken glass fragments would **become** airborne projectiles and both MMA facilities would be destroyed.

<u>\DDITIONAL:</u> This project meets the criteria/scope specified in Air Force Handbook **32-1084**, "Facility **3equirements.**" Base Civil Engineer: Lt Col Juan Ibanez, (509) 247-2291. (Munitions Maintenance \dministration Facility: 1,135 SM = 12,213 SF)

1. COMPONENT	FY 2002 MILITARY CONSTRUCTION PROJECT	CT DATA	2. DATE
AIR FORCE	(computer generated)		
3. INSTALLATION	AND LOCATION		
FAIRCHILD AIR FO	DRCE BASE, WASHINGTON		
4. PROJECT TITLE		5. F	PROJECT NUMBER
REPLACE MUNITIC	ONS MAINTENANCE ADMIN FACILITY		GJKZ000040
12. SUPPLEMEN	NTAL DATA:	Design	Build
a. Estimated	l Design Data:		
(1) Project	to be accomplished by design-build procedures		
(2) Basis:			
(a) Sta	andard of Definitive Design -		NO
(b) Wł	nere Design Was Most Recently Used -		
(3) Design	Allowance		112
(4) Constru	uction Contract Award Date		02 May
(5) Constr	uction Start		02 Jul
(6) Constru	uction Completion		03 Oct
(7) Energy	Study/Life-Cycle analysis was/will be performed		YES

1. COMPONENT AIR FORCE	FY2002		RY CONS		ON PRO	GRAM		2. DATE	
3. INSTALLATION A	ND LOCATION		4. COMM	IAND					CONST
MCCHORD AIR FO	RCE BASE,		AIR MOE	BILITY CO	OMMANI	D			
WASHINGTON									.06
6. PERSONNEL STRENGTH	PERMANEN		0.55	STUDE				DRTED	
	OFF FNI		OFF	FNI	CIV	OFF	FNL		TOTAL
a. As of 30 Sep b. End FY 200	00 475 3,256 5 441 3,158	1,220 1.219				3	6	112	5,072
b. End FY 200	5 441 5,156					3	6	112	4,939
			VENTOR	Y DATA :	5(000)				
a. Total Acreage	4,63	9							
b. Inventory Totals as								350.004	
c. Authorization Not Y		aram.						114,393 20,700	
e. Authorization Inclu		-	n: (FY200)	3)				20,700	
f. Planned in Next Fo			(***200	-,				15.144	
a. Remainina Deficier	•							67.400	
h. Grand Total:								567,641	
8. Projects Requested	d in this Program	: FY2002							
CATEGORY								DESIGN S	
	JECT TITLE			SC	OPE		\$(000) \$		CMP
-	tend Nose Dock				1,400		\$4,900	JAN 01	SEP 01
6 1 O-249 Add/Alte	er Mission Suppo	rt Center,	Ph 1		11,750		15,800	JUL 01	MAY 02
						Total \$	20,700		
9a. Future Projects: In	cluded in the Fol	llowing Pr	ogram: (F	Y2003)	No	Projects			
9b. Future Projects: T			r Years						
141-785 Mission	Support Center,	Ph 2		1	1,272	SM S	\$15,144		
9c. Real Property Mai	intenance Backlo	g This In	stallation					41	
10. Mission or Major I					11 squad	Irons; an	Air Force	Reserve C	Command
C-141 associate airlift				Sector.					
11. Outstanding pollut a. Air pollution	lion and safety (C	100 (NHA)	ICIENCIES:					^	
b. Water pollution								0	
c. Occupational Sa	afety and Health							0	
d. Other Environm	-							0	
								0	

1. COMPONENT		FY 2002 MILITARY COM	ISTR	UCTION	PROJECT DA	TA	2. DATE
AIR FORCE		(compu	uter g	enerated)			
3. INSTALLATION MCCHORD AIR FC					ECT TITLE TER MISSIOI	N SUPPORT	CENTER, PH 1
5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. F	ROJECT	NUMBER	8. PROJEC	CT COST (\$000)
41976		6 1 O-249		QW Y903(001R1		15.800
		9. COS	T EST	IMATES			
	I	TEM		U/N	QUANTITY		COST (\$000)
ADD TO AND ALTE	R MISSIC	N SUPORT CENTER		LS			7,677
ALTERATION				SM	11,750	624	(7,332
ADDITION				SM	651	339	(221
AT/FP PHYSICAL	SECURI	TY MEASURES		SM	12,401	10	(124
SUPPORTING FAC UTILITIES/COMM	SUPPOR	T VEMENTS/SEISMIC UP		LS LS			6,541 (1,600'
TEMPORARY FA		VEIVIENTS/SEISIVIIC UP		SM	3,253	323	(2.659: (1,051)
ASBESTOS/LEAD		AINT REMOVAL		SM	11,750	58	
ELEVATORS	Ditol 11			EA	2	275,000	
SUBTOTAL							14,218
CONTINGENCY (5.0%)						711
TOTAL CONTRACT SUPERVISION, INS		& OVERHEAD (5.7 %)				14,929 851
FOTAL REQUEST							15,780
FOTAL REQUEST	(ROUNDE	D)					15,800
EQUIPMENT FROM	1 OTHER	APPROPRIATIONS					(1,580)
		Construction: All architect no of non-structural inter					

10. Description of Proposed Construction: All architectural, electrical and mechanical work to provide an adequate facility. Includes demo of non-structural interior partitions to provide open space. Install fire supression, detection systems, seismic upgrade, and wiring to accommodate info and communication systems, handicap access and support. Includes physical security (AT/FP) in compliance with DoD minimum construction standards.

11. REQUIREMENT: 23,673 SM ADEQUATE: SM SUBSTANDARD: 23,022 SM

PROJECT: Add to and alter mission support center. (Current Mission)

<u>REQUIREMENT:</u> An adequately configured facility is required to consolidate Wing, Group Headquarters, and **community** support functions. Repairs are required to correct life safety code violations to maintain optimum 'acility operations, and to maintain the physical plant and facility standards which are consistent with Air Force 'acility excellence guidelines.

<u>CURRENT SITUATION</u>: This project alters a facility which was designed and built as a 1,000 person barracks in 1940. Building construction of the 1940s era does not meet energy, seismic, and other building code standards and requirements. Subsequent extension of the side corridors into the open bay rooms of the building has esulted in an excessive and inefficient space allocation for internal circulation with small offices located on either side of the corridors. Additionally, due to the large volume of customers planned for this facility, separate and ncreased access to the various areas of the building are required for effective space utilization. Due to the hange of occupancy from barracks to administrative use, toilets, stairwells, and corridors far exceed space equirements. Facility earthquake resistance does not meet current seismic code requirements, and lead and isbestos abatement are necessary to ensure a hazard-free workplace and customer service environment. The visiting infrastructure and deteriorated building systems are ineffective to support minimum administrative facility tandards. Many base community support functions such as Accounting and Finance, Family Support, Civilian **'ersonnel** and Post Office are currently located in widely dispersed, undersized, functionally inadequate WWII

1. COMPONENT		FY 2002 MILITARY CON	ISTRUCTION PROJECT D	ATA	2. DATE
AIR FORCE		(compu	iter generated)		
3. INSTALLATION	AND LOC	ATION	4. PROJECT TITLE		•
ACCHORD AIR FO	RCE BAS	E, WASHINGTON	ADD/ALTER MISSIC	N SUPPORT	CENTER, PH 1
. PROGRAM ELEI	MENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJE	CT COST (\$000)
41976		61 O-249	PQWY903001 R1		15,800
puildings totaling 3,9 eplacement cost of <u>MPACT IF NOT PR</u> and Korean War wo	984 square this facility <u>ROVIDED:</u> bod facilite	e meters after the comple / is approximately \$50M. Numerous base function s. This will result in exce	sion support center will allo etion of Phase II facility upg s will continue to operate fr essive operations, maintenal	rades. The e om substand	estimated ard World War III
nd Design Guide." Civil Engineering F ptions for accomplindicates the add/alt	nere is no However, acility Req shing this er alternat	criteria/scope for this pro this project does meet th uirements." An economi project (status quo, addi ive is the most cost effect	pject in Part II of Military Han ne criteria/scope specified in c analysis has been prepar ition/alteration, and new con tive over the life of the pro Facility: 12,401 SM = 133,46	n Air Force H ed comparing nstruction). T ject. Base Cir	andbook 32-1084 g all reasonable his analysis

I. COMPONENT	FY 2002 MILIT	ARY CONSTRUCTION P	ROJECT DATA	<u> </u>	2. DATE
AIR FORCE		(computer generated)			
3. INSTALLATION	AND LOCATION				
VICCHORD AIR FO	RCE BASE, WASHINGT	ON			
·. PROJECT TITLE				5. PR	OJECT NUMBER
ADD/ALTER MISSIC	ON SUPPORT CENTER,	PH 1		PQ	WY903001 R1
12. SUPPLEMEN	ITAL DATA:		Desig	n, Bid	, Build
a. Estimated	Design Data:				
(1) Status:					10-JUL-01
	te Design Started				YES
		es used to develop cost	S		1 %
	rcent Complete as of	Jan 01			01 -DEC-01
	te 35% Designed.				30-MAY-02
	te Design Complete				
(f) Ene	ergy Study/Life-Cycle a	analysis was/will be perfo	ormed		YES
(2) Basis:					
(a) Sta	indard of Definitive De	esign -			NO
(b) Wh	ere Design Was Most	Recently Used -			
(3) Total C	Cost (c) = $(a) + (b)$ or	(d) + (e):			(\$000)
(a) Pro	oduction of Plans and	Specifications			948
(b) All	Other Design Costs				474
(c) Tot	tal				1,422
(d) Co	ontract				1,185
(e) In-	house				237
(4) Constru	uction Contract Award	Date			02 Aug
(5) Constr	uction Start				02 Sep
(6) Constru	uction Completion				04 Oct
which is co		Definition with Paramet			
b. Equipment ass appropriations:	ociated with this proje	ct will be provided from			
EQUIPMEN	ІТ	PROCURING	FISCAL YE		COST
NOMENCLAT		APPROPRIATION	OR REQUES		(\$000)
EQUIPMENT OT	HER	3010	2002	2	1580

ACCHORD AIR FORCE BASE, WASHINGTON C-17 EXTEND NOSE DOCKS 41130 211-173 POWY023050R1 8. PROJECT COS 9. COST ESTIMATES 9. COST ESTIMATES 4.90 9. COST ESTIMATES 9. COST ESTIMATES 4.90 9. COST ESTIMATES 1.10 0.01 N.11 0.01 N.11 0.17 EXTEND NOSE DOCKS LS SM 1,400 2,208 LARGE AIRCRAFT MAINTENANCE DOCKS (2) SM 1,400 2,208 APERTURE DOORS LS SM 1,400 2,208 SUPPORTING FACILITIES LS LS SISTE IMPROVEMENTS SISTE IMPROVEMENTS LS SISTE IMPROVEMENTS SISTE IMPROVEMENTS SISTE IMPROVEMENTS LS SISTE IMPROVEMENTS SISTE IMPROVEMENTS SISTE IMPROVEMENTS LS SISTE IMPROVEMENTS SISTE IMPROVEMENTS LS SISTENTATE COAL REQUEST OTAL REQUEST NOTAL REQUEST (ROUNDED) SISTENTATE	
41130 211-173 POWY023050R1 4.90 9. COST ESTIMATES 9. COST ESTIMATES 10.00000000000000000000000000000000000	
9. COST ESTIMATES ITEM U/N QUANTITY COST C-17 EXTEND NOSE DOCKS LS LS 1,400 2,208 LARGE AIRCRAFT MAINTENANCE DOCKS (2) SM 1,400 2,208 APERTURE DOORS LS LS 1,400 2,208 SUPPORTING FACILITIES LS LS LS PAVEMENTS LS UTILITIES LS LS LS LS IS PAVEMENTS LS LS LS IS COMM SUPPORT LS LS IS IS DEMOLITION LS SUBTOTAL CONTRACT COST IS SUPERVISION, INSPECTION & OVERHEAD (5.7 %) TOTAL CONTRACT COST Image: Contract Cost SUPERVISION, INSPECTION & OVERHEAD (5.7 %) Image: Contract Cost Image: Contract Cost SUPPORTION OF Proposed Construction: Reinforced concrete foundation and floor slab. Steel frame waterelisting and roof. Extend fire suppression/detection, electrical and mechanical systems and necess support to include prewiring of communication requirement. Includes utility work, vehicle parking, landsc and necessary support. Minor demolition for alteration. Air Conditioning: 7 KW 11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS SUBOLECT: C-17	Г (\$000)
ITEM UN QUANTITY UN I T C-17 EXTEND NOSE DOCKS LS LS 1,400 2,208 LARGE AIRCRAFT MAINTENANCE DOCKS (2) SM 1,400 2,208 APERTURE DOORS LS LS 1,400 2,208 SUPPORTING FACILITIES LS LS Image: Comparison of the	0
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 banel siding and roof. Extend fire suppression/detection, electrical and mechanical systems and necess support to include prewiring of communication requirement. Includes utility work, vehicle parking, landscand necessary support. Minor demolition for alteration. Air Conditioning: 7 KW 11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS <u>PROJECT:</u> C-17 Extend nose docks. (New Mission) <u>REQUIREMENT:</u> Two adequately sized and configured maintenance facilities are required to support to be down of 48 C-17 aircraft at McChord AFB. Covered space is required for aircraft jacking, inspection, and maintenance of C-17 aircraft and support equipment required to work on the aircraft cannot phy into the existing C-141 nose docks. The existing nose docks are too shallow to accommodate the larger Communication. 	
PROJECT: C-17 Extend nose docks. (New Mission) REQUIREMENT: Two adequately sized and configured maintenance facilities are required to support to beddown of 48 C-17 aircraft at McChord AFB. Covered space is required for aircraft jacking, inspection, and maintenance of C-17 aircraft. CURRENT SITUATION: C-17 aircraft and support equipment required to work on the aircraft cannot phy into the existing C-141 nose docks. The existing nose docks are too shallow to accommodate the larger (ary
REQUIREMENT: Two adequately sized and configured maintenance facilities are required to support to beddown of 48 C-17 aircraft at McChord AFB. Covered space is required for aircraft jacking, inspection, and maintenance of C-17 aircraft. <u>CURRENT SITUATION:</u> C-17 aircraft and support equipment required to work on the aircraft cannot phy into the existing C-141 nose docks. The existing nose docks are too shallow to accommodate the larger (
beddown of 48 C-17 aircraft at McChord AFB. Covered space is required for aircraft jacking, inspection, and maintenance of C-17 aircraft. CURRENT SITUATION: C-17 aircraft and support equipment required to work on the aircraft cannot phy into the existing C-141 nose docks. The existing nose docks are too shallow to accommodate the larger (
nto the existing C-141 nose docks. The existing nose docks are too shallow to accommodate the larger (
acilities must be modified to provide a "soft closure" around the C-17 fuselage.	C-17
<u>MPACT IF NOT PROVIDED</u> : Adequate aircraft maintenance operations cannot be performed on the C-1 aircraft. It will not be possible to meet the aircraft utilization rates of the 48 assigned C-17 aircraft unless project is accomplished.	
ADDITIONAL: This project does meet the criteria/scope specified in Air Force Handbook 32-I 084, "Farequirements." A preliminary analysis of reasonable options for accomplishing this project was done. It hat adding to existing facilities will meet operational requirements. Because of this a full economic analysis rot performed. A certificate of exemption has been prepared. BASE CIVIL ENGINEER: Lt Col Brian Bo 253) 984-5209. Maintenance Docks: 1,400 SM = 15,069 SF	

(computer generated) ION WASHINGTON a: a: tarted at Estimates used to develop costs ete as of Jan 01 gned. omplete fe-Cycle analysis was/will be performed finitive Design - Was Most Recently Used -) + (b) or(d) + (e):	5. PROJECT NUMBI PQWY023050R1 Design, Bid, Build 1 g-JAN-0 YE 35 9 15-MAY-0 30-SEP-0 YE YE MCCHORI
WASHINGTON a: arted at Estimates used to develop costs ate as of Jan 01 gned. omplete fe-Cycle analysis was/will be performed finitive Design - Was Most Recently Used -	PQWY023050R1 Design, Bid, Build 1 g-JAN-0 YE 35 0 15-MAY-0 30-SEP-0 YE MCCHORI
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omplete fe-Cycle analysis was/will be performed finitive Design - Was Most Recently Used -	30-SEP-0 YE YE MCCHORI
fe-Cycle analysis was/will be performed finitive Design - Was Most Recently Used -	YE YE MCCHORI
finitive Design - Was Most Recently Used -	YE
Was Most Recently Used -	MCCHORI
Was Most Recently Used -	MCCHORI
) + (b) o(d) + (e).	(\$000
lans and Specifications	(\$000 270
n Costs	49
COSIS	319
	245
	74
act Award Data	01 No
	02 Ja
letion	03 Ja
of Project Definition with Parametric Cost Est traditional 35% design to ensure valid scope	
this project will be provided from other	
a 1	ct Award Date etion f Project Definition with Parametric Cost Est traditional 35% design to ensure valid scope

1. COMPONENT AIR FORCE	FY2	002		RY CONS		ON PRO	OGRAM	l		2. DATE	Ξ
3. INSTALLATION A	AND LOC	ATION		4. COM	MAND					5. AREA	CONST
FRANCIS E WARR WYOMING	AIR FOF	RCE SPA		MMAND)		COST INDEX 1.01				
6 PERSONNEL	6. PERSONNEL PERMANENT			STUDENTS SUPPO					ORTED		
STRENGTH	OFF	ENI	CIV	OFF	FNI	CIV	OF		NI	CIV	TOTAL
a. As of 30 Sep 00	528	2,781	758					1	1	72	4,141
b. End FY 2005	527	2,737	758					1	1	72	4.096
			7. I		RY DATA	\$(000)					
a. Total Acreage		5,860									
b. Inventory Totals as of: 30 Sep 00							242.488				
c. Authorization Not Yet In Inventory:								28,466			
d. Authorization Requested In this Program:									10,200		
e. Authorization Included In Following Program: (FY2003) 0											
f. Planned in Next F	-	am Years	:							33.581	
a. Remainina Defici	ency:									117.300	
h. Grand Total:			-							432.035	
3. Projects Request	ed in this	Program:	FY2002					со	ST	DESIGN	STATUS
	DJECT TI	ITLE			S	COPE				START	CMP
	s Center					5,051	SM	\$10.2			N KEY
							Total	\$10,2	00	_	
)a. Future Projects:	Included i	n the Foll	owing P	rogram: (FY2003)	Ν	lo Proje	cts			
b. Future Projects:					·						
		ations Fa				3,078	SM	\$11,5	500		
740-443 Renov	ate Buildi	ngs For T	LFs			6,700	SM	\$7,6	680		
871-183 Upgrad	de Stormv	vater Drai	naqe Sy	stem		1	LS	\$14,4	01		
c. Real Property Ma	c. Real Property Maintenance Backlog This Installation									105	
0. Mission or Major onsisting of one Per ircraft; and Air Natio	acekeepe	r and thre	e Minute	eman III ir	ntercontine	ental ba	llistic mi	issile sq	uadro	ons with U	
1. Outstanding pollu	tion and	safety (O	SHA) de	ficiencies:							
a. Air pollution										0	
b. Water pollution	า									4.000	
c. Occupational S	Safety and	d Health								0	

1. COMPONENT		FY 2002 MILITARY CONST	RUCTION I	PROJECT DA	TA 2	2. DATE
AIR FORCE		(computer	generated)			
3. INSTALLATION FRANCIS E WARR		CATION ORCE BASE, WYOMING		ECT TITLE S CENTER		
5. PROGRAM ELE	MENT	6. CATEGORY CODE 7.	PROJECT	NUMBER	8. PROJECT	COST (\$000)
35996		740-674	GHLN993	8008		10,200
		9. COST E	STIMATES		•=	
	I	TEM	U/M	QUANTITY	UNIT COST	COST (\$000)
FITNESS CENTER			SM	1	7,869,000	7,869
(2)FITNESS CEN	ITER		SM	5,051	1,550	(7,829
ANTITERRORISM	I FORCE	PROTECTION	SM	5,051	8	(40
SUPPORTING FAC	-					1,286
SITE IMPROVEM	IENTS		LS			(451
UTILITIES			LS			(455
PAVEMENTS			LS			(380
SUBTOTAL	F 00()					9,155
CONTINGENCY (458
TOTAL CONTRACT SUPERVISION, IN:		N &OVERHEAD (5.7 %)				9,613 548
TOTAL REQUEST		· · · · ·				10,161
TOTAL REQUEST	(ROUNDE	D)				10,200
irame/metal roof. In	cludes a le ourts, a He ection cons	Construction: Single story wit obby, administration, locker ealth and Wellness Center (I struction standard.	rooms, gym	nasium, group	o exercise, fitn	ess equipment
11. REQUIREMEN	T: 5,051	LS ADEQUATE: LS SUBS	TANDARD:	4,465 LS		
PROJECT: Constru	ct a fitnes	s center. (Current Mission)				
'or military members and wellness testing	s by provid . Physica	fitness facility is required to ing effective, efficient, and p I well-being and good morale ing contingencies. Comply w	easent spa	ces for exercise to developing	se, training, sp g the self-confi	orts, and health dence and
The internal configure such as weight and hick stale air in wore Geographic separate	ration of th cardio ma kout areas on of facili negative i	ess facilities at F E Warren A ne facilities are not adequate chines. Poor ventilation and s. An awkward layout of space ties causes members to eith mpact on members who use	to accomo the lack of ces causes er move be	date modern f air conditionir the fitness cer tween facilities	itness and train and allows an an anters to feel cr and s or not get an	ning equipment tmosphere of amped. optimal

<u>MPACT IF NOT PROVIDED</u>: Members will be forced to continue using substandard and inefficient facilities for itness and sporting activities adversely impacting military fitness requirements. The health, physical well-being, and morale which are essential to the development and retention of personnel will continue to suffer.

<u>ADDITIONAL:</u> This project meets the criteria/scope 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

AIR FORCE (computer generated) 3. INSTALLATION AND LOCATION (PROJECT TITLE FRANCIS E WARREN AIR FORCE BASE, WYOMING (PROJECT TITLE 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 0735996 10.200 10.200 10.200 10.200 certificate of exception has been prepared. Base CMI Engineer: LI C0 Carlos Cruz-Gonzalez, (307) 775-3600. Fitness Center: 5.051 SM = 54,369 SF. Design Build - Design Cost (4% of Subtotal Cost): \$356,000. Fitness Center: 5.051 SM = 54,369 SF. Design Build - Design Cost (4% of Subtotal Cost): \$356,000. S366,000.	1. COMPONENT		FY 2002 MILITARY CON	STRUCTION PROJECT DA	ATA	2. DATE	Т
FRANCIS E WARREN AIR FORCE BASE, WYOMING FITNESS CENTER 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 35996 740-674 GHLN993008 10,200 certificate of exception has been prepared. Base Civil Engineer: LI Col Carlos Cruz-Gonzalez, (307) 775-3600. Fitness Center: 5,051 SM = 54,369 SF. Design Build - Design Cost (4% of Subtotal Cost): \$366,000.			(compu	ter generated)			
FRANCIS E WARREN AIR FORCE BASE, WYOMING FITNESS CENTER 5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 35996 740-674 GHLN993008 10,200 certificate of exception has been prepared. Base Civil Engineer: LI Col Carlos Cruz-Gonzalez, (307) 775-3600. Fitness Center: 5,051 SM = 54,369 SF. Design Build - Design Cost (4% of Subtotal Cost): \$366,000.	3. INSTALLATION	AND LOC	ATION	4. PROJECT TITLE			┫
35996 740-674 GHLN993008 10,200 certificate of exception has been prepared. Base Civil Engineer: Li Col Carlos Cruz-Gonzalez, (307) 775-3600. Fitness Center: 5,051 SM = 54,369 SF. Design Build - Design Cost (4% of Subtotal Cost): \$386,000.	FRANCIS E WARR	en air f	ORCE BASE, WYOMING				
certificate of exception has been prepared. Base Civil Engineer: LL Col Carlos Cruz-Gonzelez, (307) 775-3600. Fitness Center: 5,051 SM = 54,369 SF. Design Build - Design Cost (4% of Subtotal Cost): \$336,000.	5. PROGRAM ELE	MENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJEC	CT COST (\$000)	┥
certificate of exception has been prepared. Base Civil Engineer: L1 Col Carlos Cruz-Gonzalez, (307) 775-3600. Fitness Center: 5,051 SM = 54,369 SF, Design Build - Design Cost (4% of Subtotal Cost): \$366,000.	35996		740-674	GHLN993008			
	certificate of except	ion has be	een prepared. Base Civil	Engineer: Lt Col Carlos Cr	uz-Gonzalez,	(307) 775-3600.	1
	Fitness Center: 5,0	51 SM = 5	4,369 SF. Design Build -	Design Cost (4% of Subto	tal Cost): \$36	6,000.	
DE FORM 4004 Des 70							
		70	Desidence	aditiona are abaalata		Page No	

1. COMPONENT AIR FORCE	FY 2002 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION	AND LOCATION	
FRANCIS E WARR	EN AIR FORCE BASE, WYOMING	
4. PROJECT TITLE		5. PROJECT NUMBER
FITNESS CENTER		GHLN993008
12. SUPPLEMEN		esign Build
a. Estimated	d Design Data:	
(1) Project (2) Basis:	t to be accomplished by design-build procedures	
. ,	andard of Definitive Design -	NO
. ,	nere Design Was Most Recently Used -	
(3) Desigr	Allowance	408
	uction Contract Award Date	01 Nov
	uction Start	02 Jan
	uction Completion	03 Jun
	v Study/Life-Cycle analysis was/will be performed	YES
appropriations:	N/A	

1. COMPONENT AIR FORCE	FY2	002		RY CONS Iter gener		ON PRC	GRAM		2. DATE	-	
3. INSTALLATION AN CLASSIFIED LOCA		ATION		4. COMN	IAND					A CONST INDEX 1	
6. PERSONNEL	PER		I		STUDE	NTS		SUPPO	ORTED		
STRENGTH	OFF	FNI	CIV	OFF	FNI	CIV	OFF	ENI	CIV	TOTAL	
a. As of 30 Sep 00										0	
b. End FY 2005										0	
			7.	VENTOR	Y DATA :	\$(000)					
a. Total Acreage											
b. Inventory Totals as c. Authorization Not Y									0 0		
d. Authorization Requested In this Program:									4,458		
e. Authorization Inclu		-	-	: (FY200	3)				1,993		
f. Planned in Next Fo	•	am Years	:						3.000 0		
 a. Remainina Deficier b. Orașe d. Tatale 	ncv:								9,451	-	
h. Grand Total:	dia thia	Due euro rec	EV0000						3,431		
I. Projects Requested					COST	DESIGN	STATUS				
ODE PROJECT TITLE				SCOPE \$(000)					START	CMP	
	100-000 Tactical Unit Detachment Facility					1	LS	\$4,458	Jun 01	Apr 02	
							Total	\$4,458	_		
a. Future Projects: Ir	ncluded i	n the Fol	lowina F	Program: (FY2003)						
		ON Projec		rogram. (,	1	LS	\$1,993			
			J			1		\$1,993	_		
b. Future Projects: T	vnically	Diannod N	lovt Fou	r Voore			Total	ψ1,333			
I 00-000 Classifie			Next Fou	Teals		0		\$3,000			
c. Real Property Mai	intenance	e Backlog	This In	stallation					<u>0</u>		
1. Outstanding pollut	ion and	safety (O	SHA) de	ficiencies:							
a. Air pollution									0		
b. Water pollution									0		
c. Occupational Sa	afety and	d Health							0		
d. Other Environm	nental								0		

1. COMPONENT	FY 2002 MILITARY CONSTRU	JCTION F	PROJECT DA	TA 2	2. DATE
AIR FORCE	(computer g	enerated)			
3. INSTALLATION AND LC	CATION	4. PROJ	ECT TITLE		
HQ USAF, UNKNOWN				ACHMENT FA	CILITY
5. PROGRAM ELEMENT	6. CATEGORY CODE 7. P	ROJECT	NUMBER	8 PROJECT	COST (\$000)
27248	100-000	PAYZ020			4,458
27240	9. COST ES		005		4,436
	0. 0001 20			UNIT	COST
	ITEM	U/M	QUANTITY	COST	(\$000)
SPECIAL TACTICAL UNIT	DETACHMENT FACILITY	LS			4,458
SUBTOTAL					4,458
TOTAL CONTRACT COST					4,458
TOTAL REQUEST					4,458
TOTAL REQUEST (ROUND	ED)				4,468
, , , , , , , , , , , , , , , , , , ,	,				
10. Description of Proposed	Construction:		l		1
II. REQUIREMENT: LS A	ADEQUATE: LS SUBSTAND	ARD: LS			
REQUIREMENT: Special A	ccess Required.				

TACTICAL UNIT DETACHMENT FACILITY 12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Status: (a) Date Design Started (b) Parametric Cost Estimates used to develop costs . (c) Percent Complete as of Jan 01 . (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house	PROJECT NUMBER PAYZ020003 Bid, Build
HQ USAF, UNKNOWN 4. PROJECT TITLE 5. P TACTICAL UNIT DETACHMENT FACILITY 5. P 12. SUPPLEMENTAL DATA: Design, B a. Estimated Design Data: (1) Status: (a) Date Design Started (b) Parametric Cost Estimates used to develop costs . (c) Percent Complete as of Jan 01 . (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (e) In-house	PAY7020003
4. PROJECT TITLE 5. P TACTICAL UNIT DETACHMENT FACILITY 5. P 12. SUPPLEMENTAL DATA: Design, B a. Estimated Design Data: (1) Status: (a) Date Design Started (b) Parametric Cost Estimates used to develop costs . (c) Percent Complete as of Jan 01 . (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house (e) In-house	PAY7020003
TACTICAL UNIT DETACHMENT FACILITY 12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Status: (a) Date Design Started (b) Parametric Cost Estimates used to develop costs . (c) Percent Complete as of Jan 01 . (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house	PAY7020003
 12. SUPPLEMENTAL DATA: Design, B a. Estimated Design Data: (1) Status: (a) Date Design Started (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	
 a. Estimated Design Data: (1) Status: (a) Date Design Started (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	lid, Build
 (1) Status: (a) Date Design Started (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	
 (a) Date Design Started (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	
 (a) Date Design Started (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	
 (b) Parametric Cost Estimates used to develop costs (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	25-Jun-01
 (c) Percent Complete as of Jan 01 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	
 (d) Date 35% Designed. (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	1 %
 (e) Date Design Complete (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	08-Oct-01
 (f) Energy Study/Life-Cycle analysis was/will be performed (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	28-Apr-02
 (2) Basis: (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	YES
 (a) Standard of Definitive Design - (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	
 (b) Where Design Was Most Recently Used - (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	NO
 (3) Total Cost (c) = (a) + (b) or(d) + (e): (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	
 (a) Production of Plans and Specifications (b) All Other Design Costs (c) Total (d) Contract (e) In-house 	(\$000)
(b) All Other Design Costs(c) Total(d) Contract(e) In-house	267
(d) Contract (e) In-house	134
(e) In-house	401
	334
(1) Construction Contract Award Data	67
(4) Construction Contract Award Date	02 Mar
(5) Construction Start	02 May
(6) Construction Completion	03 Aug
 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: N/A	