

# USCENTAF AFFOR

## A-7/CMO

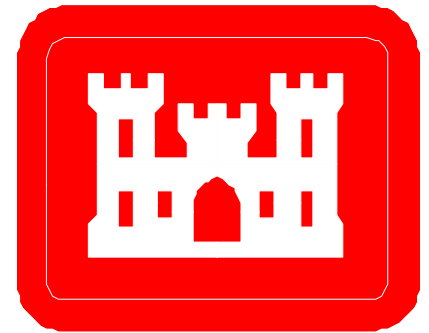
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### A-7 Forward/Construction Management Office

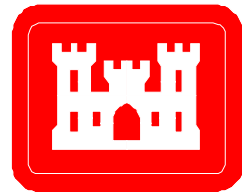


*Middle East  
Construction*

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Col Joe Worrell  
Director

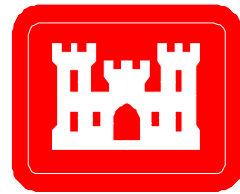


# Topics

- **Organization and Mission**
- **AOR Construction Program**
- **Base Development, Standards**
- **Challenges and Accomplishments**
- **Pakistani Earthquake Relief**
- **RED HORSE Projects**
- **Al Udeid AB Base Development**
- **Future Opportunities**
- **Questions**



# AFFOR A-7/CMO Organizational Chart



**DIRECTOR**  
**Col Joe Worrell**

**Deputy Director USACE**  
**Dr. Khaled Masoud, GS-14**

**Army Corps of Engineers**  
**Area Engineering for Qatar and UAE**  
**3 Resident Engineer Cells**

**Deputy Director**  
**AOR Construction**  
**Maj Chris Sipe**

**Al Udeid Construction**

**5 Operating Locations:**

**Ali Al Salem AB**

**Al Dhafra AB**

**Bagram AB**

**Balad AB**

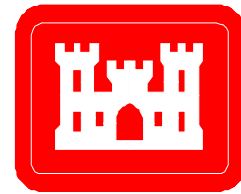
**Kandahar AB**

**Deputy Director**  
**AOR Operations**  
**Maj Tim Indieke**

**Readiness/WRM**  
**Explosives Ordnance Disposal**  
**GeoBase**  
**Theater Design Cell**

**A-6 Liaison**  
**DESC Liaison**  
**SOF Engineer Liaison**

- **Personnel: 43**
  - 1-yr tours: 6 (1 USA)
  - AF Rotational: 17
  - Coal/Civ/Cont: 0/2/0
  - USACE Civ: 18

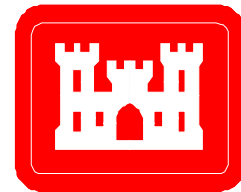


# Mission

***Provide tactical, operational, and strategic support to execute civil engineer short and long term requirements where USAF has senior airfield authority and/or base operating support integration responsibilities.***

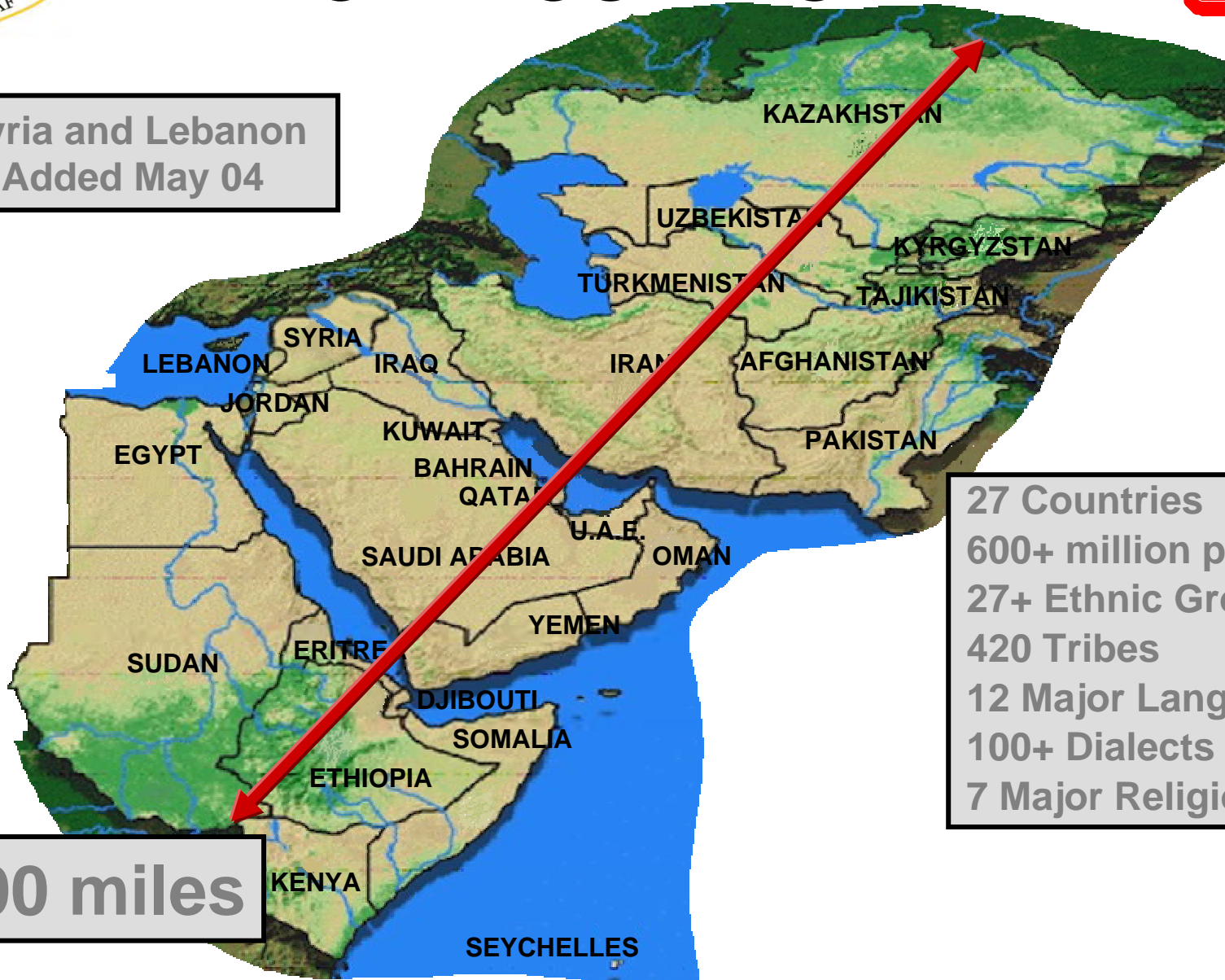
***Provide on-time and within budget, facilities and infrastructure to support warfighter requirements, execute the development of our enduring bases and promote the strategic interests of the United States and coalition partners throughout the CENTCOM AOR***





# CENTCOM AOR

Syria and Lebanon  
Added May 04



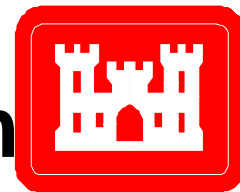
27 Countries  
600+ million people  
27+ Ethnic Groups  
420 Tribes  
12 Major Languages  
100+ Dialects  
7 Major Religions

5400 miles

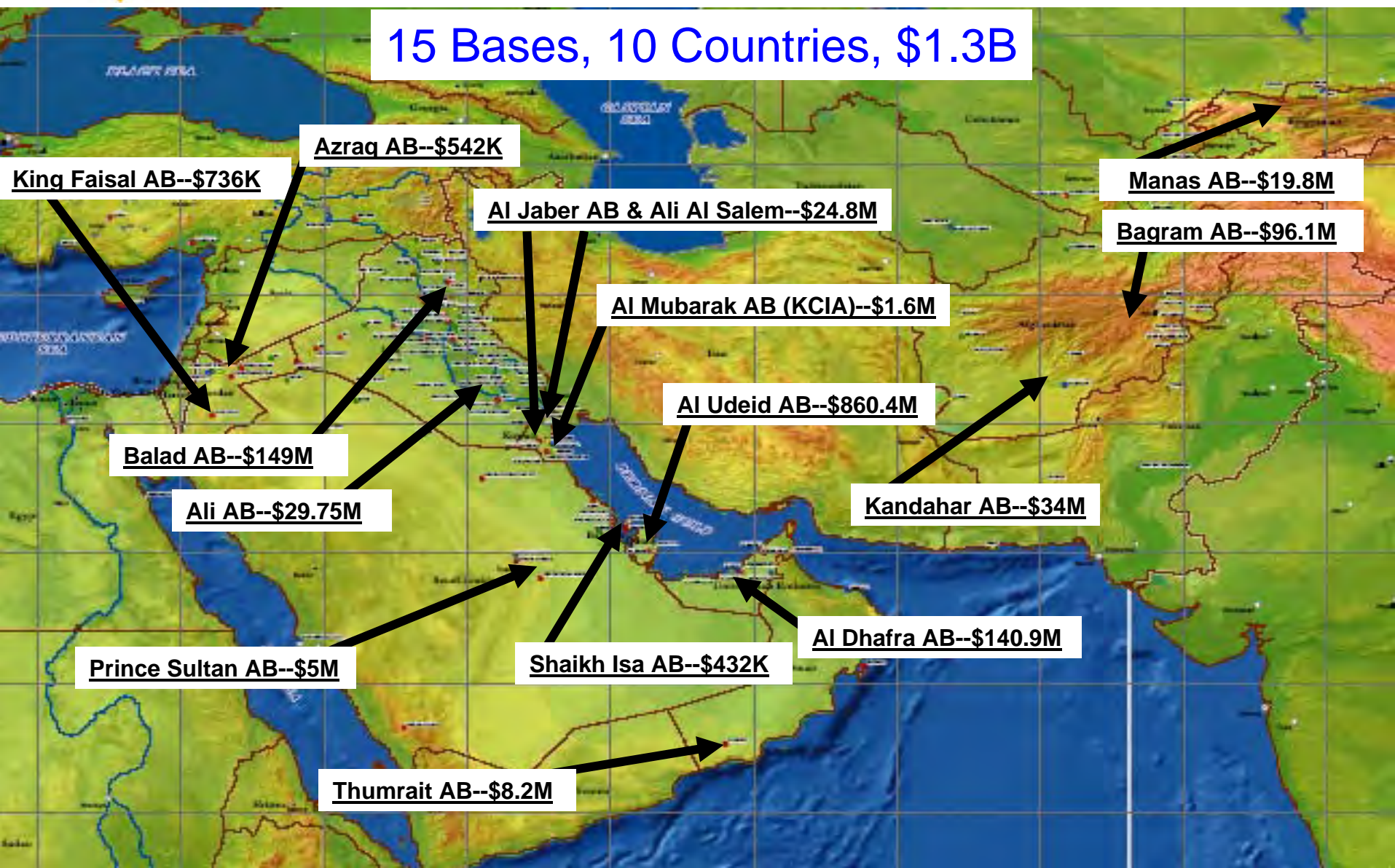


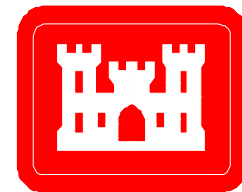


# AOR CMO Construction Program



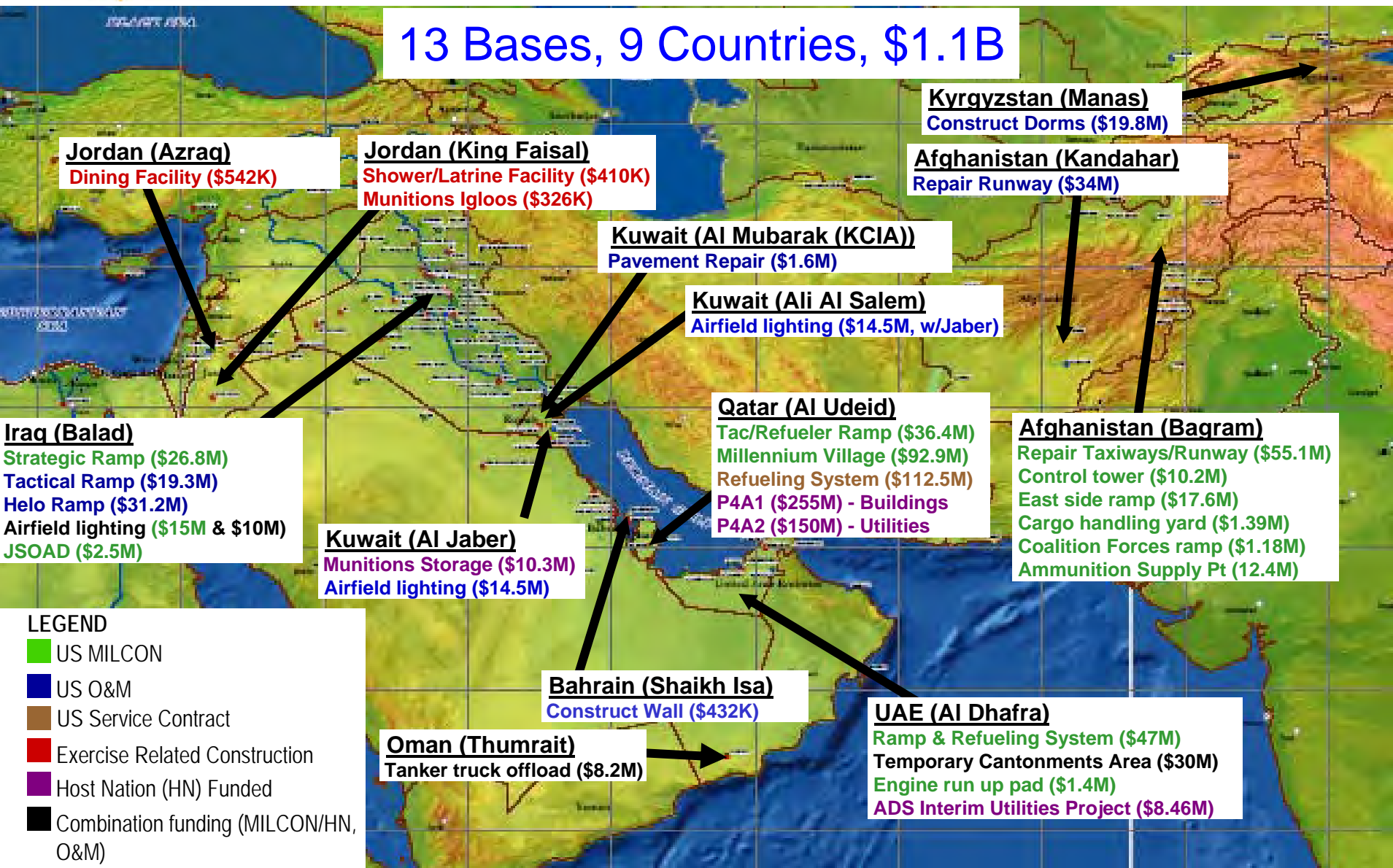
15 Bases, 10 Countries, \$1.3B





# Projects Under Construction

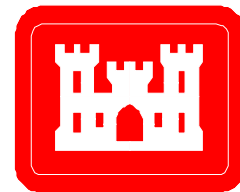
13 Bases, 9 Countries, \$1.1B



## LEGEND

- US MILCON
- US O&M
- US Service Contract
- Exercise Related Construction
- Host Nation (HN) Funded
- Combination funding (MILCON/HN, O&M)





# Planned Projects

6 Bases, 5 Countries, \$317.2M

## Iraq (Balad)

Cargo marshalling area (\$15M)  
Alert compound (\$8M)  
Hot cargo pad (\$3.5M)  
Munitions haul road (\$2.7M)

## Kuwait (Ali Al Salem)

Aerial Port of Debarkation (TBD)

## Qatar (Al Udeid)

CENTCOM Forward HQ (\$128M)  
Furnishings & Comm (\$88M)

## UAE (Al Dhafra)

Area Defense Site (\$67M)  
ISR Launch/Recovery Facility (TBD)

## Saudi Arabia (PSAB)

POL system repair (\$5M)

## Iraq (Ali)

Temporary Cantonment Area (\$10.8M)  
Repair/Inst Airfield Lighting (\$6.5M, \$12.45M)  
Projects Being Cancelled – Reprogramming

### LEGEND

US MILCON

US O&M

Exercise Related Construction

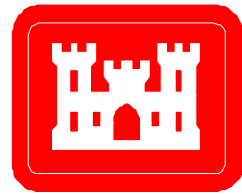
Host Nation Funded

Execution Method TBD





# AOR Wide Infrastructure Development



■ **Planned, programmed, designed over 1,000 projects, valued over \$2.03 billion at 19 installations**

- Over \$645 in MILCON and O&M, Contingency Construction *in progress*
- Another \$344.9M pending award

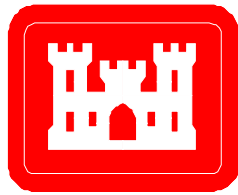
■ **Development Objectives**

- Support current contingency - NOW
  - **Agile response to changing mission req'ts**
- Support base's 2010 end state as defined in the CENTCOM Global Base Posture (GBP)
  - **Cost effective, sustainable facilities to support CSL or FOS req'ts**



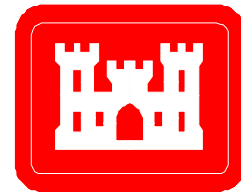


# Construction Standards



- **Construction standards should reflect base's IGPBS posture**
  - Some bases near end-state, others need work
- **Iraqi Bases – not included in GBP**
  - No long term presence, thus expeditionary standard (stretched fabric structures, K-Spans, modulares, etc)
- **Cooperative Security Locations (CSLs)**
  - Warm base in caretaker status with semi-permanent (cost effective, low maintenance facilities, pre-engr bldgs, modulares, etc)
- **Forward Operating Sites (FOSs)**
  - Enduring presence with rotational forces, permanent facilities commensurate with HN access agreements (brick and mortar, and pre-engr bldg construction)



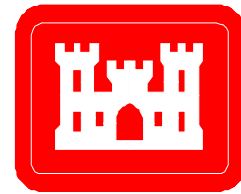


# Challenges

## ■ Maintaining *expeditionary* focus for future facilities... CENTCOM guidance:

- Focus on 4 R's – Runways, Ramps, RO/RO Berths & RSOI/C2 Facilities
- Construct to expeditionary standard—Modular, pre-engineered metal bldgs, commercial alternatives to WRM
- HN engagement for base access and cost sharing
  - **Host Nations who can pay—should!**
- Both pre-requisite to US-MILCON funding





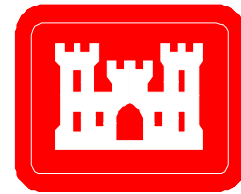
# Challenges (Cont)

## ■ Future funding – both MILCON and O&M

- Weaning MILCON from Supplemental to Normal POM'ing process
  - **FY06 to be last GWOT Supplemental**
  - **OSD to jump start process by taxing service FY 07 programs**
- Expect O&M funding to be tighter in FY06 and beyond
- Commanders to prioritize req'ts, balance risk/cost
- A7 and other functionals to validate req'ts >\$100K

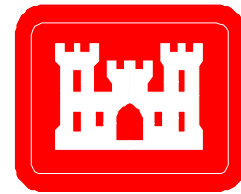






# Accomplishments

- **Constructed \$32M Refueler/Strategic/Tactical Ramp at Al Udeid AB, Qatar**
  - Provides continuous, 4M square foot ramp--largest in AOR
- **Constructed \$48.5M Refueler Ramp at Al Dhafra AB, UAE**
  - 1.8M square foot ramp provides parking for 12 refueler aircraft
- **Constructed \$31.2M Helicopter Parking Aprons at Balad AB, Iraq**
  - 2-Ramp project parks 138 helos and opens secondary runway
- **Constructed \$19.3M Tactical Ramp at Balad AB, Iraq**
  - Project provides parking for 21, C-130 aircraft (987K SF)
- **Constructed \$26.8M Strategic Ramp at Balad AB, Iraq**
  - Project provides parking for 2, C-5 aircraft (442K SF)
- **Constructed \$19.8M TCA at Manas AB, Krygyzstan**
  - Provides 20 dormitories to relocate 1000 personnel out of tents



# Accomplishments

- **Completed \$1.6M Ramp repairs at Al Mubarak AB, KCIA, Kuwait**
  - Provides KAF-requested repairs caused from APOD mission
- **Constructed \$432K AT/FP Wall at Shaikh Isa AB, Bahrain**
  - Provides 3.6K foot long concrete wall around US base camp
- **Completed \$4.9M Taxiway repairs at Jacobabad AB, Pakistan**
  - Repaired damage caused by heavy aircraft-transitioned base back to the Host Nation



# Accomplishments



## ■ Sustainment Operations

- Conducted 32 Airfield Assessments and 27 Landing Zone (LZ) Surveys – Validated Capacity/Future Programming
- 3,200 EOD Responses, Safed 1,200 IEDs, Destroyed 700K Insurgent Munitions in Past 6 Months
- Doubled Crash Fire Rescue Landing Zone Capability in AOR
- RED HORSE Projects @ Kandahar, Bagram , BIAP & Balad

## ■ Supported Pakistani Relief Effort

- Airfield Eval Team Designed \$21M AflD Projects in 10 Days



# Pakistan Earthquake Devastation



- 7.6 on Richter scale
- 79,000 dead
- 76,000 injured
- Millions homeless





# Multinational Humanitarian Effort



**Coalition response ranged from medical to airlifting aid**



# Airfield Assessments



**Designed \$21M in airfield projects at 3 locations in 10 days!**





# Humanitarian Supplies Delivered



Runway Sweeper



"Jingle Trucks"



**9,712,000lbs of humanitarian  
aid delivered in 30 days!**



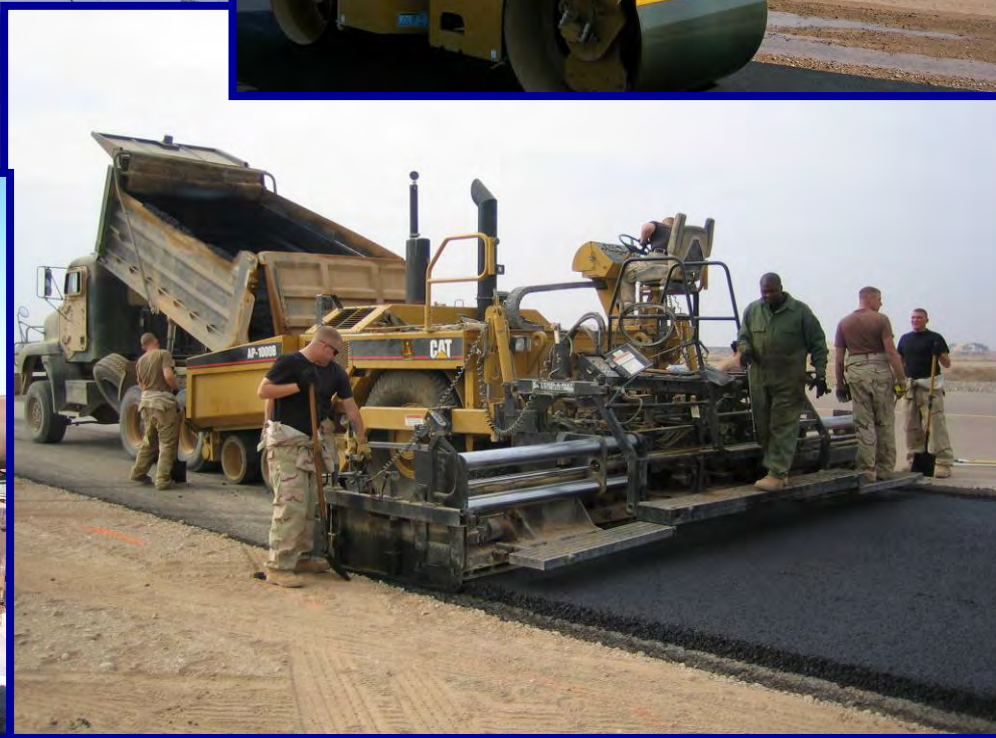
# RED HORSE Repair Crater (Baghdad Intl Airport - BAIP)







# RED HORSE Widen Taxiway Echo (Balad AB, Iraq)







# RED HORSE Build PAX Terminal (Bagram AB, Afghanistan)





# RED HORSE Repair “Steel Beach” (Bagram AB, Afghanistan)







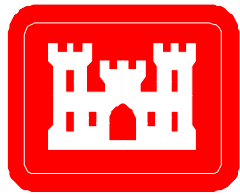
# RED HORSE Repair Kilo Ramp (Kandahar AB, Afghanistan)







# Al Udeid Construction



## ■ Host Nation Funded Construction

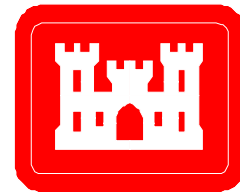
- Package IV (P4): Qatar AF Reqmts – Started 1 Dec 01, ECD Mar 06
- Package IV: Addendum 1 (P4A1): US Requirements (Estimated to be \$255M) – Started 25 May 03, ECD July 06
  - Flightline Area, Munitions Storage Area, WRM Storage Area
- Package IV: Addendum 2 (P4A2): Infrastructure Works (~\$150M)
- Contractor: Rizzani de Eccher, Consultant: White Young Qatar

## ■ US Funded Construction

- Refueler Ramp and Tactical Ramp Expansion (\$36.4M, MILCON)
  - Combined with HN Funded Strategic Ramp
  - Contractor: CH2M Hill/Dragados/Soluziona
- DESC Hydrant Fuel System (\$112.5M, DESC Service Contract)
  - Contractor: FSC/NOVA
- Millennium Village (\$92.5M, MILCON)
  - Contactor: Morganti/AICI-JV



# Al Udeid AB, Qatar



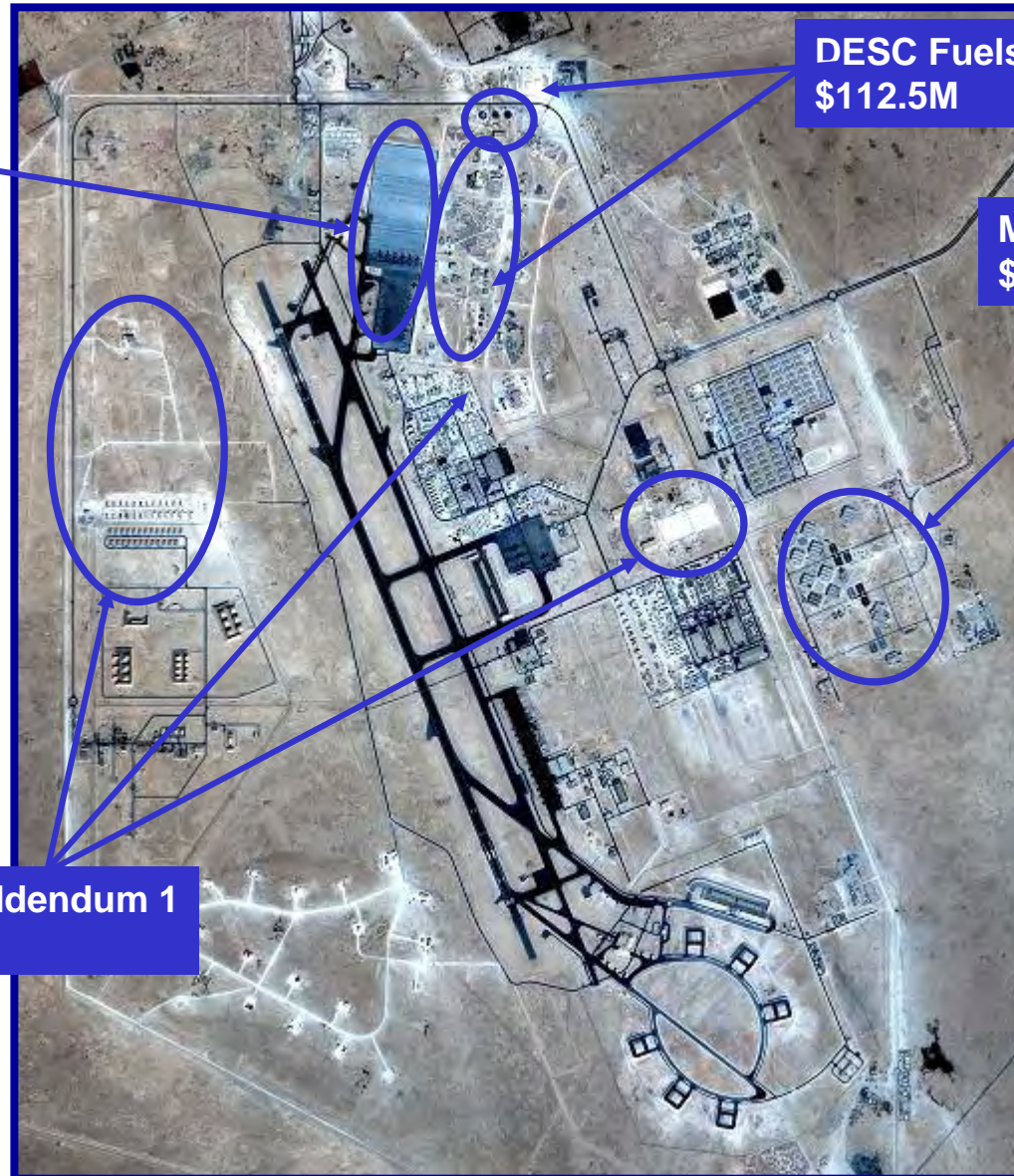
**Refueler/Tactical  
Ramp \$36.4M**

**DESC Fuels System  
\$112.5M**

**Millennium Village  
\$92.5M**

**Package 4 Addendum 1  
\$255M**

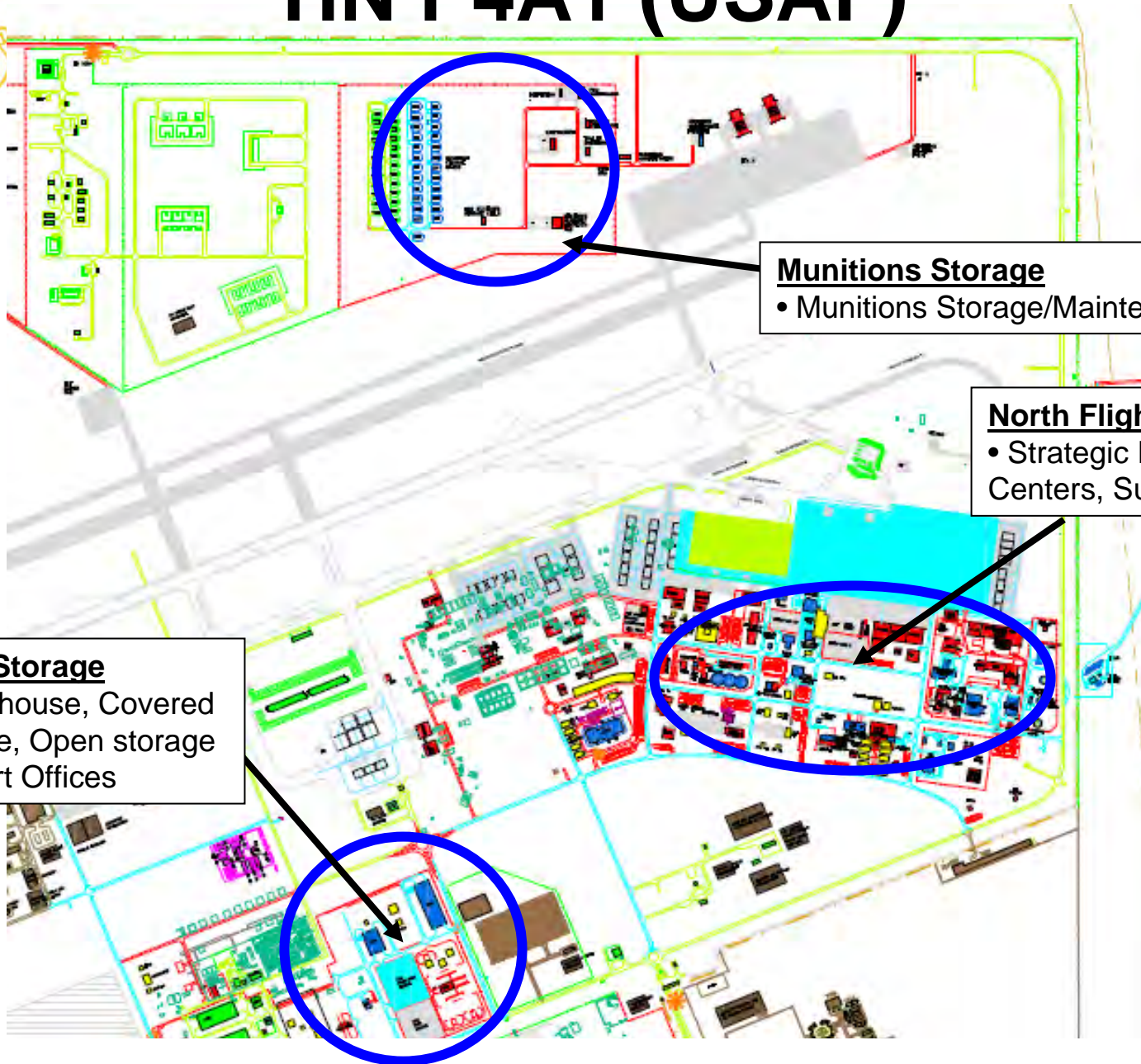
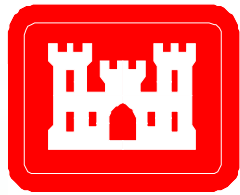
- 25 Km SW of Doha
- Area = 55 Sq Km
- 12 Yrs of Development
- 22 Km of fencing
- Rwy = 13,700'
- Width = 150'
- Qatari Investment- over 5 Billion QR







# HN P4A1 (USAF)



## Munitions Storage

- Munitions Storage/Maintenance

## North Flightline Area

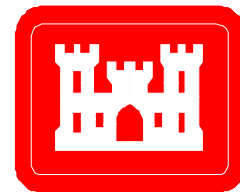
- Strategic Ramp, Ops Centers, Support, Etc..

## WRM Storage

- Warehouse, Covered Storage, Open storage Support Offices



# Flightline Area



## LEGEND

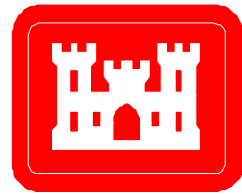
- Existing Facility
- HN & US Funded Works Under Construction
- US Future Proposed - Building
- US Future Proposed - Horizontal







# HN P4A1: Flightline Area



## ■ 23 facilities & strategic aircraft parking ramp

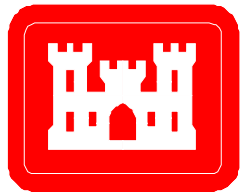
- All facilities & strategic ramp under construction
- All facility structures to be completed by Jul 06
- Beneficial use anticipated Nov 07 after HN utilities are completed

## ■ Key facilities

- Expeditionary Warfighting Operations Center (EWOC)
- Operations facilities for SOCCENT within a secure complex
  - HQ2 Headquarters Bldg
  - HQ2 Commandant Bldg
  - HQ2 Storage
- Squadron operations & aircraft maintenance facilities
- Wing Operations Center



# HN P4A1: EWOC



Early Construction



Current exterior

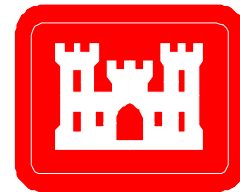
## Expeditionary Warfighting Operations Center



Backup power generation area

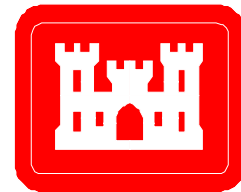


# HN P4A1: EWOC

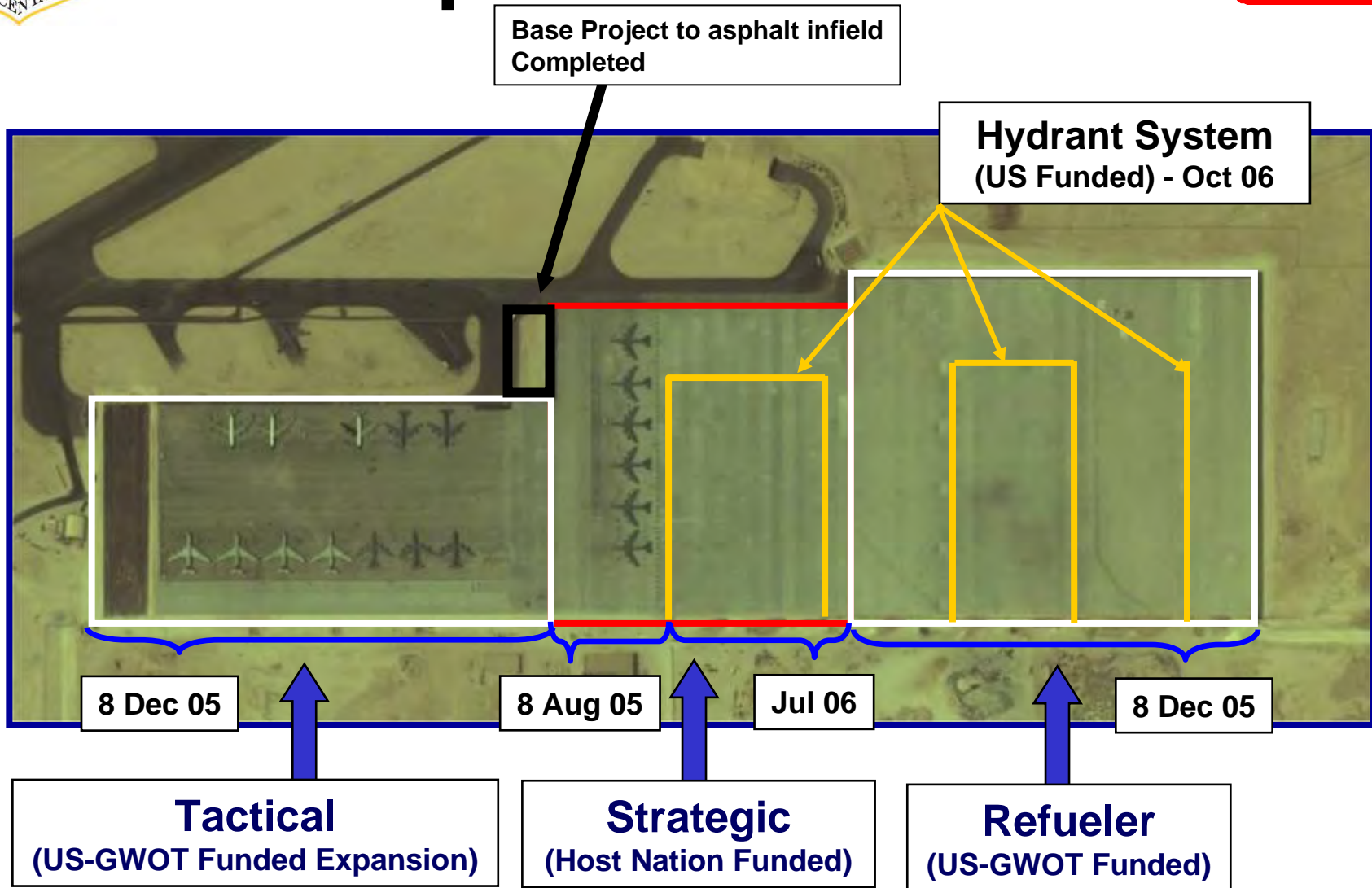


EWOC Interior Construction





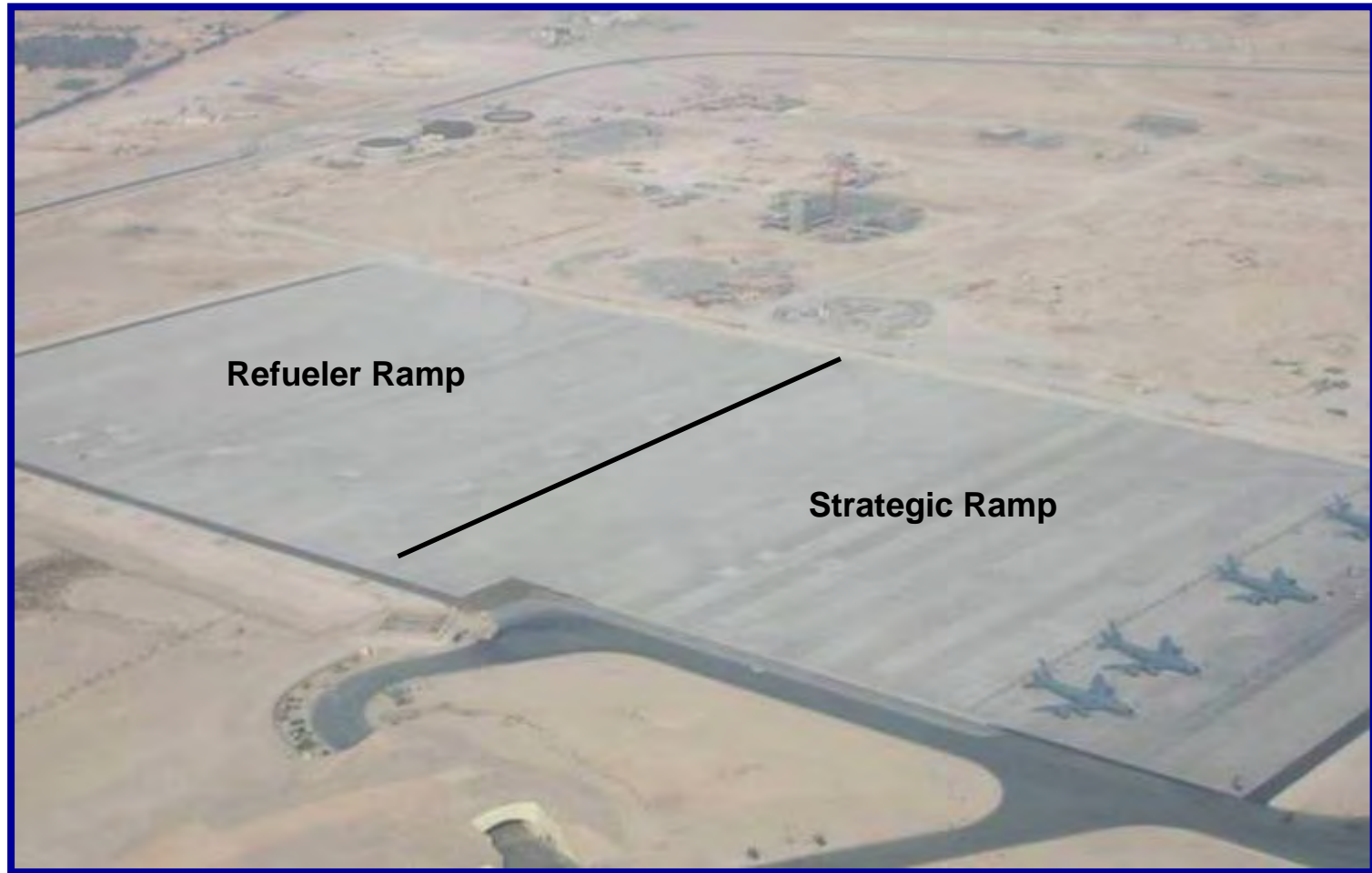
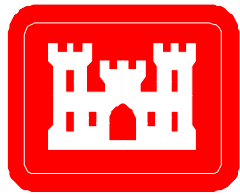
# Ramp Construction

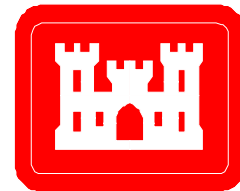






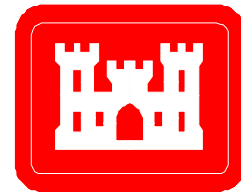
# Al Udeid Ramps





# Al Udeid Ramps





# Fuel System

- **Service contract (\$112.5M);  
Funded by DESC (ECD Oct 06)**
- **Contactor: FSC**
- **Includes**
  - Pipeline and Hydrant System
  - 3 Bulk storage tanks – cut and cover
  - 3 Operational storage tanks
  - Tanker truck offload facility
    - 5 – 50K gal underground tanks
  - Total Capacity – 8M gallons
- **ECD: Oct 06**

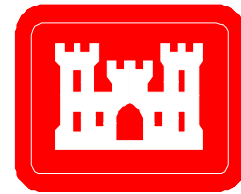


**Bulk Storage (3-50K barrels, 2.1M gal ea)**



**Operational Storage (3-15K barrels, 630K gal)**





# Al Udeid Fuel System

**Bulk Storage Filter/Pump Installation**



**Raising Bulk Storage Tanks Exterior Lifts**

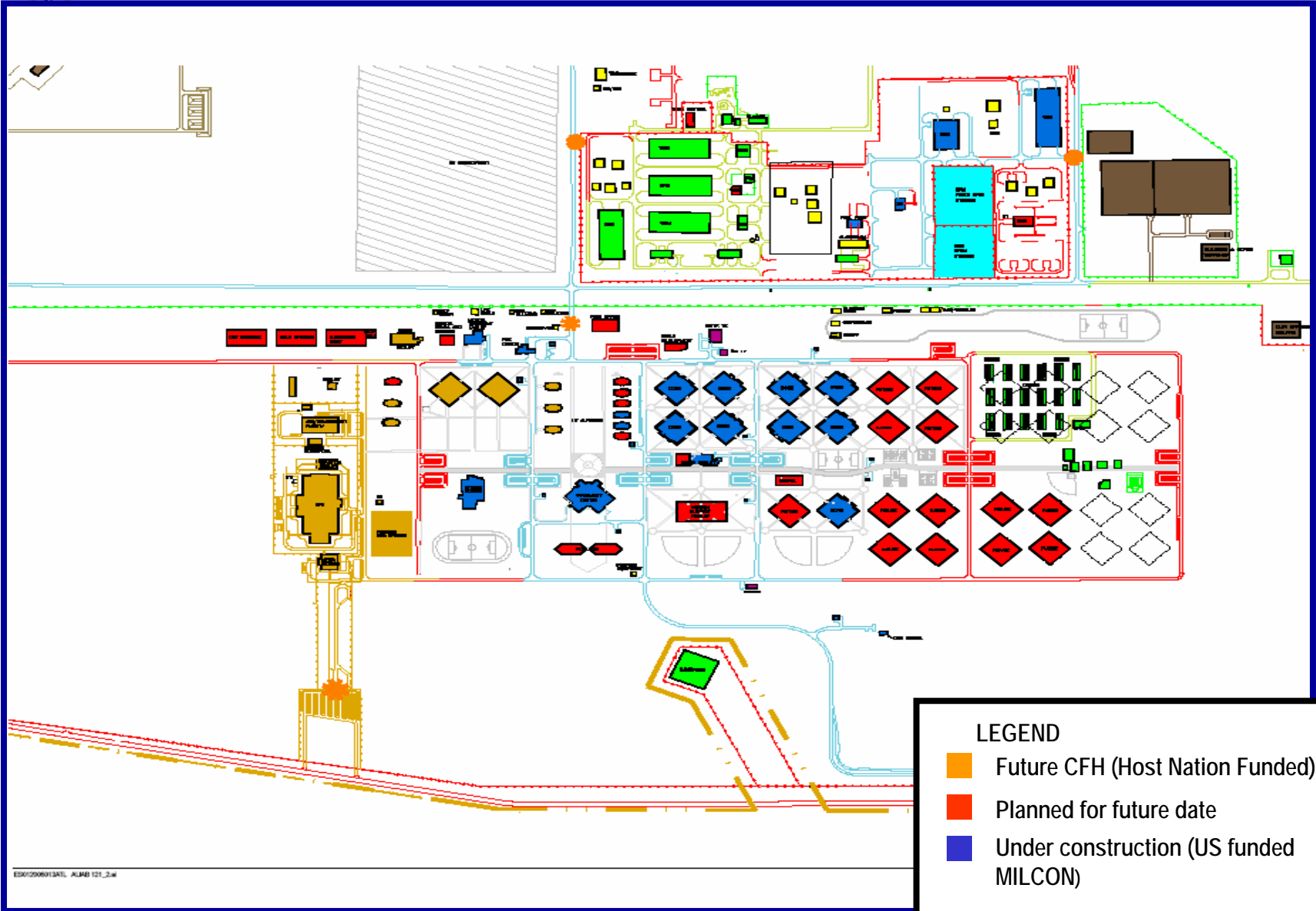
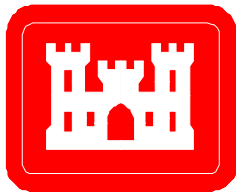


**Operational Storage Tanks, 4M Gallon**



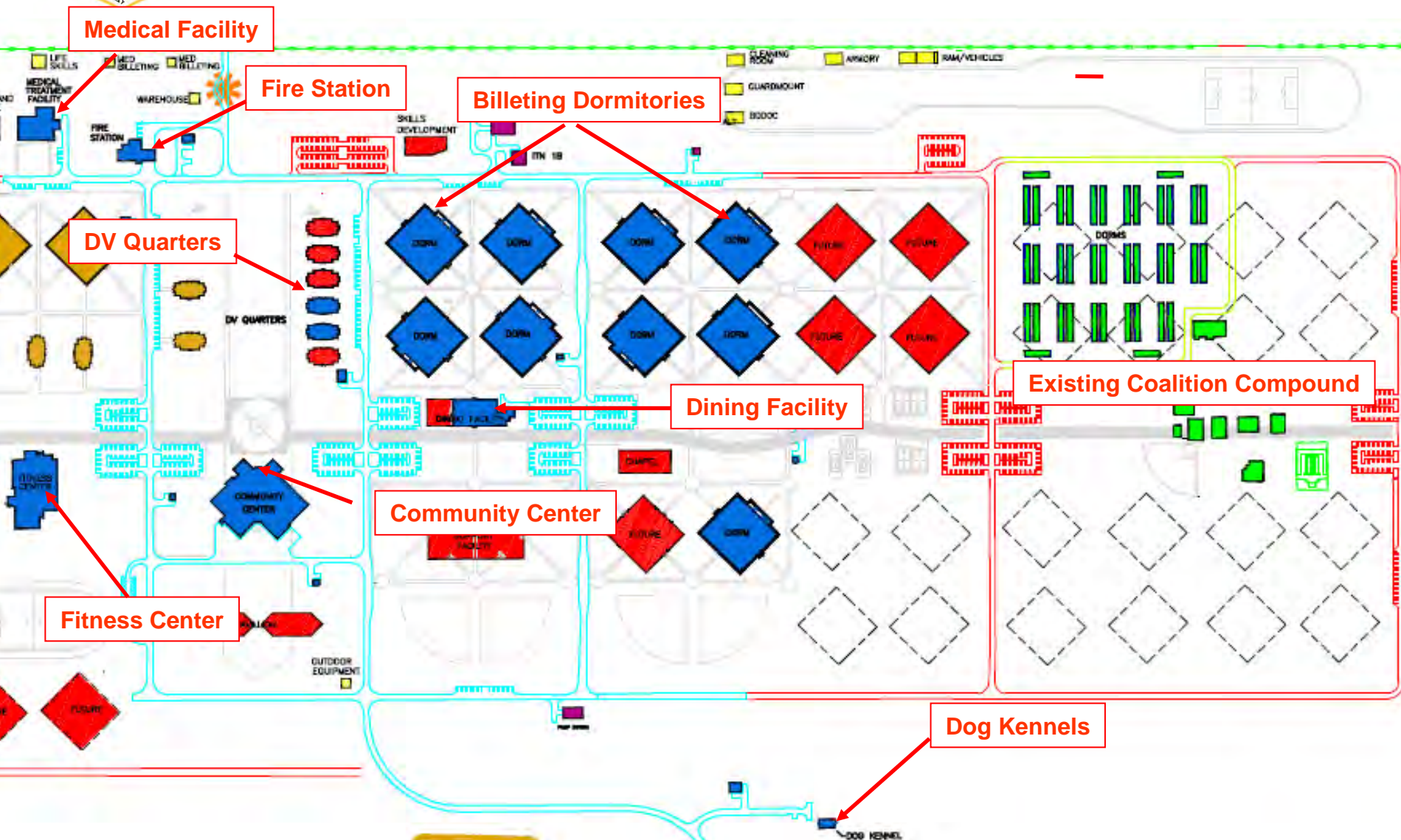
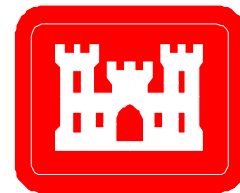


# Millennium Village Development Plan

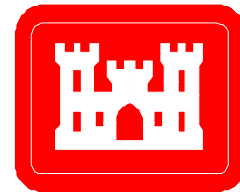




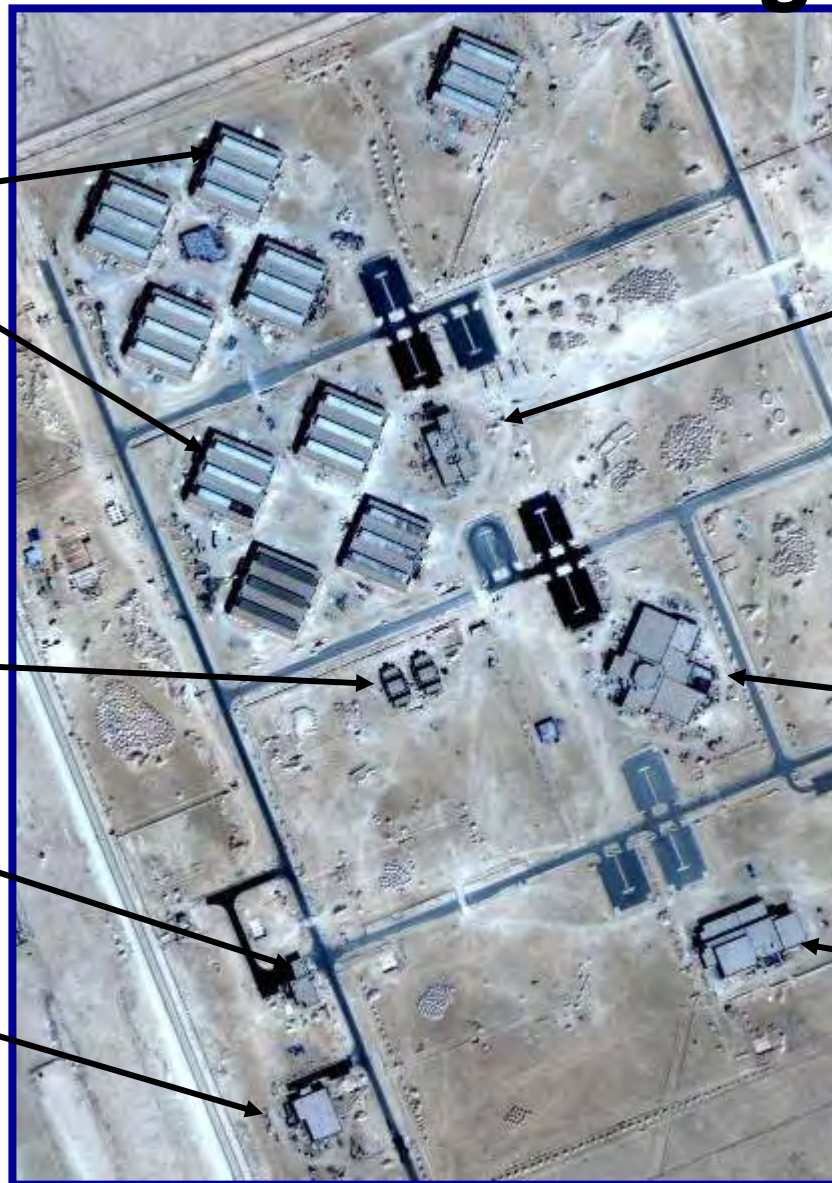
# Millennium Village Layout







# Millennium Village



Dormitories

Dining Hall

DV Suites

Community Mall

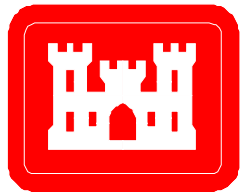
Fire Department

Fitness Center

Clinic



# Millennium Village



- **US MILCON (\$92.5M); HN Funding External Works**
- **Move-in delayed until HN utility completion – Nov 07**
- **Key Facilities Under Construction**
  - 2 SOQs (16 suites; ECD: Apr 06)
  - 9 Dorms (1,764 rooms; ECD: Apr 06)
  - Fitness center (ECD: Apr 06)
  - Dining facility (2,000 person; ECD: Apr 06)
  - Community Mall (ECD: Apr 06)
  - Medical facility (ECD: Jul 06)



Dormitory



Fire Station

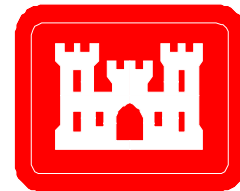


Community Mall



# Millennium Village

## Community Center Mall



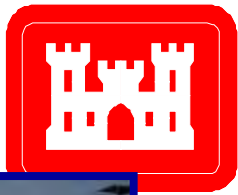
Construction Progression







# Millennium Village



Central Atrium



440 Seat Theater



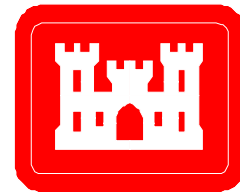
Morale Phone Booths



BX



# Millennium Village



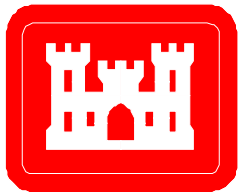
FITNESS CENTER





# Millennium Village

## Fitness Center



Indoor Pool



Gymnasium



Central Hall

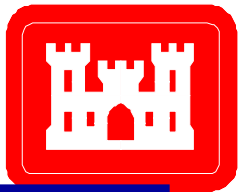


Weight/Resistance Room





# Millennium Village

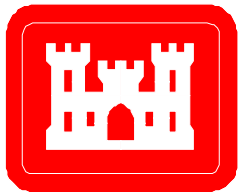


DORMITORIES

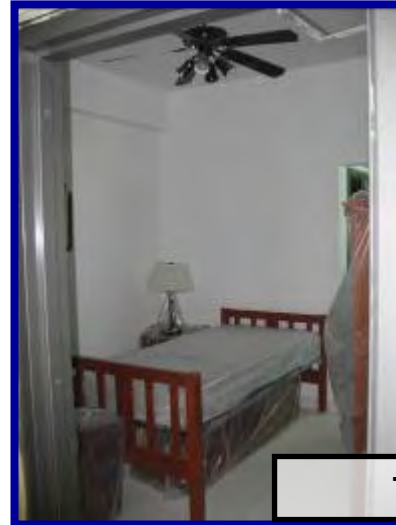




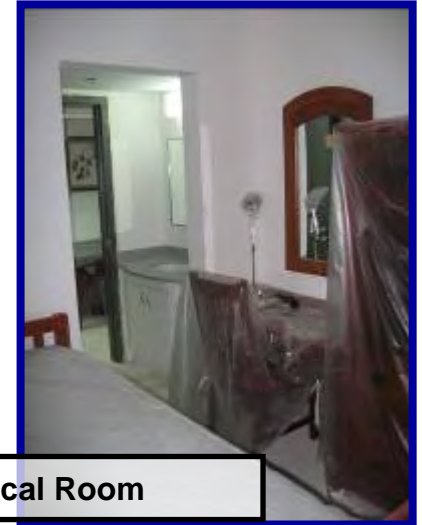
# Millennium Village



Laundry Facilities



Typical Room



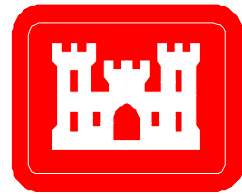
1+1 Common Area



Central Indoor Atriums



# Future Al Udeid Construction



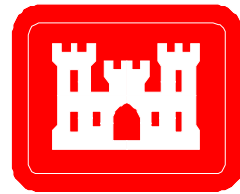
## ■ SOF Construction Program

- FY 05 SOCENT sponsored Joint Use Training Facility and Range \$2.9M
  - On hold for siting decision
  
- FY 07 SOF Program - \$44.5M
  - Combined Fixed and Rotary Wing Hanger & backshops, avionics, AGE Maintenance, Heavy Rigging Facility and Squadron Operations
  - Contract Award Scheduled for Dec 06
  
- FY 08 SOF Program – Five Projects for \$52.3M
  - Crisis Response Element (CRE), GMV Facility, Storage Facility, Joint Special Ops Air Center, and MC-130/Helo Parking Apron
  - Projects Support AFSOC, USASOC, and NAVSPECWARCOM
  - Customer Concept Documents are in development





# CENTCOM Forward HQ



- **CENTCOM Forward HQ facility**

- 212,000 SF




- **Supporting facilities**

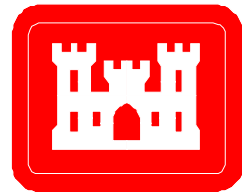
- JSD/Commandant Facility
  - Coalition Facility
  - Media center
  - 2 Dormitories
  - 5 Senior Officer Qtrs
  - Dining facility
  - 2 CFH ECPs

- **HN will support \$129M in construction costs, but not furniture or comm**



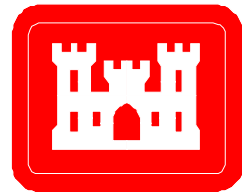
LEGEND

-  Host Nation funded
-  Planned for future date
-  Under construction (US funded MILCON)



# Future Opportunities

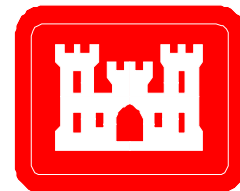
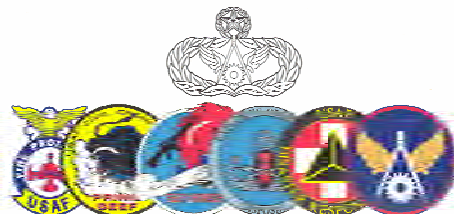
- **Base Master Planning and base development support**
  - Build-to-lease WRM storage complex
  - CIP surveying and mapping for GeoBase effort
- **Operations, Maintenance and Sustainment of enduring locations**
  - Power production and barrier maintenance
  - Air Traffic control and Airfield operations
  - Engineering design support
  - Airfield maintenance support
  - S/R & M Support (fuel, water systems)
  - Base caretaker contracts for warm bases (i.e. Al Jaber, Shaikh Isa)



# Future Opportunities

- **Transition from expeditionary to enduring installations- numerous O&M funded projects under \$750K**
  - BOS I Sustainment contracts in Krygyzstan, Qatar, UAE (Iraq and Afghanistan is Army responsibility)
  - CFR support for bases in Iraq and Afghanistan
- **AFCAP II Task Order renewal/recompetition to AFCAP III**
  - Power generation operations
  - Scope changes to current AFCAP II task orders – recompetition
- **Design and Engineer support, etc**
  - Regional Design and Engineering Support Cell at AUAB to provide A&E Design and planning support for Base Civil Engineers
  - Base closure support





# Questions?

