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| 1. Component NAVY | FY 2005 MILITARY CONSTRUCTION PROGRAM | 2. Date 13 JAN 2004 |
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| 3. Installation and Location/UIC: M62974 MARINE CORPS AIR STATION YUMA, ARIZONA | 4. Project Title STATION ORDNANCE AREA - PHASE III |
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|--------------------------------|---------------------------|---------------------------|----------------------------------|
| 5. Program Element 0206496M | 6. Category Code 42122 | 7. Project Number P485 | 8. Project Cost (\$000) 7,930 |
|--------------------------------|---------------------------|---------------------------|----------------------------------|

9. COST ESTIMATES

| Item | UM | Quantity | Unit Cost | Cost(\$000) |
|-----------------------------------------------|----|----------|-----------|-------------|
| STATION ORDNANCE AREA - PHASE III (76,661 SF) | m2 | 7,122 | | 5380 |
| HIGH EXPLOSIVE MAGAZINES (8,987.87 SF) | m2 | 835 | 2,428.58 | (2030) |
| (8,988 SF) | | | | |
| BOMB BUILDUP AREA (37,674 SF) | m2 | 3,500 | 141.43 | (500) |
| INERT STORAGE (29,999.02 SF) (29,999 SF) | m2 | 2,787 | 911.00 | (2540) |
| TECHNICAL OPERATING MANUALS | LS | | | (20) |
| SPECIAL COSTS | LS | | | (290) |
| SUPPORTING FACILITIES | | | | 1740 |
| ELECTRICAL UTILITIES | LS | | | (120) |
| MECHANICAL UTILITIES | LS | | | (40) |
| SITE PREPARATIONS | LS | | | (420) |
| DEMOLITION | LS | | | (780) |
| ANTI-TERRORISM/FORCE PROTECTION | LS | | | (40) |
| OUTSIDE COMMUNICATION | LS | | | (10) |
| PAVING AND SITE IMPROVEMENT | LS | | | (330) |
| SUBTOTAL | | | | 7120 |
| CONTINGENCY (5%) | | | | 360 |
| TOTAL CONTRACT COST | | | | 7480 |
| SIOH (6%) | | | | 450 |
| SUBTOTAL | | | | 7930 |
| TOTAL REQUEST ROUNDED | | | | 7930 |
| TOTAL REQUEST | | | | 7930 |

10. Description of Proposed Construction

Construct two Stradley (25'x80') and one Box C (52'x97') standard reinforced concrete High Explosive (HE) ordnance magazines, three inert storage (50'x200') magazines, and a bomb build-up area. HE magazines will be earth-covered reinforced concrete structures with explosive-proof fixtures and required ventilation. Sustainable principles will be included into the design, development, and construction of the project in accordance with Executive Order 13123 and other laws and executive orders. Build-up area will be reinforced concrete slab on grade. Electrical utilities include telephone, electrical distribution, grounding system, and fire alarm. Mechanical utilities include fire water trench and distribution piping, ventilation, and storm water management. Supporting facilities include site and building utility connections (telephone, Local Area Network (LAN), electrical, and water). Paving and site improvements include clearing and grubbing, excavation and grading, paving, and soil treatment with pesticides. Project also includes Technical Operating Manuals, Anti-Terrorism/Force Protection features, and demolition of existing road and canal.

11. Requirement: 7122m2 **Adequate:** 0m2 **Substandard:** 0m2

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| 5. Program Element 0206496M | 6. Category Code 42122 | 7. Project Number P485 | 8. Project Cost (\$000) 7,930 | | | | | | | | | |
| <p>PROJECT: This project provides three high explosive and three inert storage ordnance magazines to support aviation ordnance operations. (Current Mission)</p> <p>REQUIREMENT: This project is required to eliminate Marine Corps Air Station (MCAS) Yuma's current reliance on ordnance storage safety waivers and to provide sufficient ordnance storage to meet minimum training and mission requirements. This project is the third of three phases and completes the ordnance storage requirements at MCAS Yuma, AZ.</p> <p>CURRENT SITUATION: The existing HE magazines require a Secretary of the Navy waiver allowing the Explosive Safety Quantity Distances (ESQD) arcs to extend off-Station onto private property. Real estate easements, renewed yearly, are required from property owners and allow only uninhabited structures on the land encumbered by the ESQD arcs. The waiver also limits the storage capacity of the Station's magazines to approximately 590,000 lbs of net explosive weight (NEW). The average yearly ordnance requirement is 2,600,000 lbs NEW to meet mission requirements. The number of required magazines is based on ordnance storage compatibility, physical size of ordnance, and capacity of current magazine design. The existing ESQD arcs fall within 100' of existing base housing. ESQD arcs from the existing Combat Aircraft Load Apron and the existing HE magazines limit development along the flightline.</p> <p>IMPACT IF NOT PROVIDED: If the existing safety waiver is not renewed, the Station's ordnance storage capacity would be further reduced, resulting in degradation of training mission requirements due to non-availability of on-site ordnance. Limited storage capacity requires more short load truck deliveries and material handling by Station personnel, and presents negative impacts on training missions due to the unavailability of required ordnance. Existing ESQD arcs will continue to limit required hangar and apron development along the flightline.</p> | | | | | | | | | | | | |
| <p>12. Supplemental Data:</p> <p>A. Estimated Design Data:</p> <p>1. Status:</p> <table> <tr> <td>(A) Date Design Start</td> <td>082002</td> </tr> <tr> <td>(B) Date Design 35% Complete</td> <td>012004</td> </tr> <tr> <td>(C) Date Design Completed</td> <td>092004</td> </tr> <tr> <td>(D) Percent Completed as of SEPTEMBER 2003</td> <td>2%</td> </tr> </table> | | | | | (A) Date Design Start | 082002 | (B) Date Design 35% Complete | 012004 | (C) Date Design Completed | 092004 | (D) Percent Completed as of SEPTEMBER 2003 | 2% |
| (A) Date Design Start | 082002 | | | | | | | | | | | |
| (B) Date Design 35% Complete | 012004 | | | | | | | | | | | |
| (C) Date Design Completed | 092004 | | | | | | | | | | | |
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| <p>(E) Percent Completed as of JANUARY 2004 35%</p> <p>(F) Type of Design Contract Design Bid Build</p> <p>(G) Parametric Estimate used to develop cost Yes</p> <p>(H) Energy study/Life cycle analysis performed Yes</p> <p>2. Basis:</p> <p>(A) Standard or Definitive Design: No</p> <p>(B) Where Design Was Most Recently Used: N/A</p> <p>3. Total Cost (C) = (A) + (B) = (D) + (E) : \$569</p> <p>(A) Production of Plans and Specifications \$427</p> <p>(B) All other Design Costs \$142</p> <p>(C) Total \$569</p> <p>(D) Contract \$356</p> <p>(E) In-House \$213</p> <p>4. Contract Award 112004</p> <p>5. Construction Start 122004</p> <p>6. Construction Complete 042006</p> <p>B. Equipment associated with this project which will be provided from other appropriations: NONE</p> <p>JOINT USE CERTIFICATION: The Director Land Use and Military Construction Branch, Installations and Logistics Department, Headquarters Marine Corps certifies that this project has been considered for joint use potential. Unilateral Construction is recommended. This Facility can be used by other components on an as available basis; however, the scope of the project is based on Marine Corps requirements.</p> <p>Activity POC: CDR Mark Terrill Phone No: 928-269-2051</p> | | | |