

STATEMENT OF WORK

REQUEST FOR PROPOSAL

DATE OF DOCUMENT: 07/13/2026

INSTALL SUNSHADES RAMP 7



**John Rennie
412 MXG/MXOL
AIR FORCE TEST CENTER**

EDWARDS AIR FORCE BASE, CALIFORNIA 93523-8540

PHONE

Desk (661) 277-5431

Cell (661) 494-1042

1.0 PURPOSE

1.1 The purpose of this Statement of Work (SOW) is to define the requirements for the manufacturing and installation of aircraft sunshades at Edwards Air Force Base (AFB), California. Contractor must provide all labor, materials, tools, and equipment necessary for the installation of aircraft sunshades described below. The work to be accomplished includes but is not limited to the following: Design of structure, design of structural foundations, design of lighting, superstructure, fabric cover, site preparation, site improvements, sunshade installation and lightning protection.

2.0 SCOPE

2.1 The 412th Maintenance Group, Edwards AFB, CA, requests a proposal for the manufacturing, assembly and installation of four (4) prefabricated aircraft sunshades on Ramp 7 at Edwards AFB, CA.

2.2 Contractors must erect safety barricades, perform site preparation, site clean-up, and demobilization.

2.3 No Excavation of any kind shall be performed prior to contractor obtaining a completed 412 CEG Dig Permit. The Contractor is responsible for coordinating all signatures on the 412 CEG Dig Permit.

3.0 DESCRIPTION OF WORK

3.1 The contractor must adhere to Unified Facilities Criteria (UFC) 3-301-01, UFC 3-310-04, MIL STD 3007, and all other Federal Aviation Administration (FAA) specifications, Military Specifications, UFC, Air Force Instructions (AFI), Edwards Air Force Base Design Standards, applicable laws, regulations, and standards that encompass this project, to include site investigations pertaining to soil compaction. Contract personnel must obtain flightline driver's licenses and adhere to all rules and regulations of driving and working on the flightline. To meet the contract requirements, the Contractor shall prepare and furnish drawings, as required for the accomplishment of the project scope in accordance with the requirements of this SOW. The Contractor shall provide all drawings, complete details, warranty information, material samples, product data from manufacturer/suppliers, standard color charts/catalogues for proposed materials and finishes as applicable and the proposed work schedule for Government review and approval prior to commencement of any work. All contract drawings shall be well prepared, complete, and accomplished in accordance with the best professional practice to show clearly and concisely the type of work to be performed. All drawings must be provided to the Government for review and approval by Authorities Having Jurisdiction.

Assembly and installation must not begin until the drawings, and associated documents have been accepted and approved by the government.

3.1.1 Provide four (4) sunshades on Ramp 7 that are 190' wide clear span at 25' high x 90' long x 69.5' at center height with 30' side walls. The structure shall be designed to ensure a minimum of 10' of clearance space between the aircraft and all portions of the structure, appurtenances, and additional aircraft within the structure (See page 7 for Sunshade Locations). Structure shall have a minimum of 190's clear span between the posts at 25' high. Shelter column anchorage will be placed on existing aircraft aprons. If structural foundations are required by the contractor, the contractor must provide engineered stamped design drawings for the foundations and provide the Government a 100% Issue for construction (IFC) drawings of the footings. Sunshade fabric covers shall be 28 Oz, translucent tan in color, flame-retardant PVC coated fabric with polyester scrim.

Frame members shall be 54" wall ASTM zinc tubular steel that meets z-bar truss design on 10' centers. Fabric ends shall be above the base of the shelter (54" above ground level). All weld joints shall be coated with 97% Zinc "Cold Gal" for corrosion protection. All Connections shall be via a Plate-to-Plate connection.

3.1.2 Blast Shield: Not required.

3.1.3 Fall Restraint System: Not required.

3.1.4 Contractor shall field verify all location dimensions for sunshades final placement.

3.1.5 Warranty: Sunshades must have at a minimum, a 10-year standard commercial warranty against defects, corrosion, and deterioration. Provide 100% IFC drawings of footings, if applicable, for the site to support the sunshades.

3.1.6 Provide and install LED lighting for each sunshade Provide and install a lighting package for each sunshade per UFC 3-530-01 (Section 3-9.2).

3.1.7 Provide GFCI protected, weather resistant, outlets to power 120vac at 20amps Nema 5-20P plugs at six (6) locations in each of the four sunshades.

4.0 Structural Requirements

4.1 Roof/Structure Cover Requirements: Roof/Structure shall be engineered to withstand 110 miles per hour (mph) sustained winds in accordance with Edwards AFB Design Standards. (See Attachment 1, Edwards Air Force Design Standards).

4.2 Roof snow loads must be in accordance with Edwards AFB Design Standards. (See Attachment 1).

4.3 Seismic Loads must be in accordance with Edwards AFB Design Standards and meet ASCE 7-10 Seismic Design Category D. (See Attachment 1).

4.4 Structure cover color shall be in accordance with Edwards AFB Design Standards. (See Attachment 1).

4.5 Ground Collision Mitigation: Ensure use of reflective markings on all structural supports and install high visibility tape on cabling that a person or vehicle could run into.

4.6 Lightning Protection: The contractor shall provide and install Lightning Protection for four sunshades in accordance with the National Electrical Code.

5.0 Administrative

5.1 Contractors must always keep the area clean and remove all waste in a timely manner. Any waste or excess material resulting from any contract requirement shall be removed and disposed of at a proper disposal site off of Edwards AFB by the Contractor in strict accordance with applicable Federal, State, County, and local laws.

5.2 Contractor shall repair/replace any Government-owned items, including aircraft pavements, damaged by the contractor employees and/or any sub-contractors while working on this project.

5.3 412 Civil Engineering Group Environmental Flight (CEVA), Edwards AFB approved AF813 26-0022 on 24 February 2026. This project is covered by Categorical Exclusion (CATEX) Appendix A.II.12 and A.II.14 [Previously CATEX A2.3.12 and A2.3.14 under 32 Code of Federal Regulations (CFR). Additionally, environmental mitigation measures were provided by CEVA and are included in the scope of the contract (See page 8).

6.0 Procedural

6.1 All personnel must wear the appropriate Personal Protection Equipment (PPE) while on the construction site. Failure to comply will result in removal from the construction site until the PPE is worn.

6.2 Contractor shall coordinate efforts with ADCTF Site Support Manager (Mr. John Rennie 661-277-5431) and/or Project Managers (PM) (Ms. Michelle Perry 661-277-4223, or Mr. Eric Kimble 661-277-4223 to prevent any delays, interruptions of classified work within the Ramp 7 compound and/or movement of personnel and/or equipment.

6.3 Contractor shall contact Site Support Manager (Mr. John Rennie 661-277-5431) seven (7) days prior to any welding, cutting, or brazing operations, to coordinate the issuance of an AF Form 592 "Hot Work Permit".

6.4 Contractor shall install temporary signage and/or barricades to redirect personnel from the construction area. Barricades shall be low profile, lighted, and FAA approved. Barricades shall be anchored, weighted, or filled with water to prevent displacement.

7.0 Foreign Object Debris (FOD) Prevention

7.1 Aircraft safety is paramount; therefore, aircraft will not operate within the sunshade installation area. However, the sunshade installation work site is adjacent to active aircraft operations parking apron and taxiway. The Contractor shall protect the adjacent aircraft parking areas, taxiway, property, buildings, and their contents from dust, dirt, or other materials. The Contractor shall maintain the site to prevent material or debris from migrating outside the work area. If notified of material or debris outside the work area, the Contractor shall remove the debris and coordinate with ADCTF Site Support Manager or PMs to ensure aircraft movement and aircraft maintenance operations are not affected.

7.2 Protection of Contractor's Equipment: The Government is not liable for the theft, vandalism, or damage of Contractor supplies, equipment, or property. The Contractor shall secure their materials and protect all equipment and property from theft/damage at the end of each duty day.

8.0 Investigative Requirements

8.1 Contractor shall physically investigate all work areas daily for FOD control and remove any found FOD. Contractor shall perform all necessary work for sunshades manufacture and installation. Sunshades shall comply with applicable base design standards, UFCs, and AFMANs per section 3.1. The contractor's services shall include, but not be limited to, surveying required for the design of required foundations, and the design, manufacturing, and installation of sunshades. Contractor shall furnish all materials and equipment to provide four sunshades as previously described. Contractor shall verify the accuracy of all design drawings for this project. and update them as necessary. Upon completion of the project, all drawings shall be provided to the ADCTF Site Support Manager. Contractor shall coordinate with ADCTF Site Support Manager (Mr. John Rennie 277-5431) or PMs (Ms. Michelle Perry 277-4223) or Mr. Eric Kimble 277-4223) for access to work areas.

9.0 SECURITY

9.1 All contractor employees are subject to a criminal history background check in accordance with AFMAN 31- 113, Installation Perimeter Access Control. Vehicle registration, proof of insurance and a valid driver's license must be presented for all vehicles to base Security Forces for Base access.

9.2 The contractor shall comply with all base security regulations. Additionally, the contractor shall comply with actions dictated by Force Protection Condition changes/measures

9.3 The contractor shall report any suspicious activity to base Security Forces at 661-277-3340.

9.4 The Contractor shall be responsible for safeguarding all government property, equipment and materials provided for Contractor use. At the end of each work period, all government facilities, equipment, and materials shall be secured.

9.5 Contractor employees shall comply with all base traffic signage to include posted speed limits and any traffic control measures

9.6 Contractor employees are prohibited from possessing weapons, firearms, or ammunition while on Edwards AFB.

10.0 Safety and Health Standards

10.1 It is the contractor's responsibility to ensure its employees and managers have a comprehensive understanding of and full compliance with Occupational Safety and Health Administration (OSHA) requirements. Detailed information is available on the OSHA website at <http://www.osha.gov>. It is the contractor's sole responsibility for compliance with OSHA, Public Law 91-596. The contractor shall comply with all Federal, State, County, and Local laws, and Air Force Instructions (AFI) for the protection of their employees while working on an Air Force Installation or property. The protection of contractor employees is exclusively the obligation of the Contractor. Contractor shall manage all work areas to ensure the safety of building occupants, base personnel, or visitors in or near the areas of construction activities. Contractor must ensure that personnel are properly trained on the equipment they are tasked to operate. In accordance with AFI 91-202, AFMC Supplement, *The US Air Force Mishap Prevention Program*. The contractor shall submit a Safety and Health Plan to Contracting for review and acceptance by the 412 TW Ground Safety prior to contract award.

11.0 Mishap Reporting

11.1 The Contractor shall record and promptly report to the contracting officer (CO) and Site Support manager and PMs pertinent facts regarding mishaps involving government personnel or property coincident to work performed as part of the Statement of Work that occur on or off an Air Force installation IAW AFI 91-204, *Safety Investigation and Hazard Reporting*. In the event of an accident or mishap, the Contractor shall take prudent and reasonable action to establish control of the accident or mishap scene until relieved by the CO and Site Support Manager and PM. If the Government elects to investigate of the accident or mishap, the Contractor shall cooperate fully and assist Government personnel in the investigation until the investigation is complete.

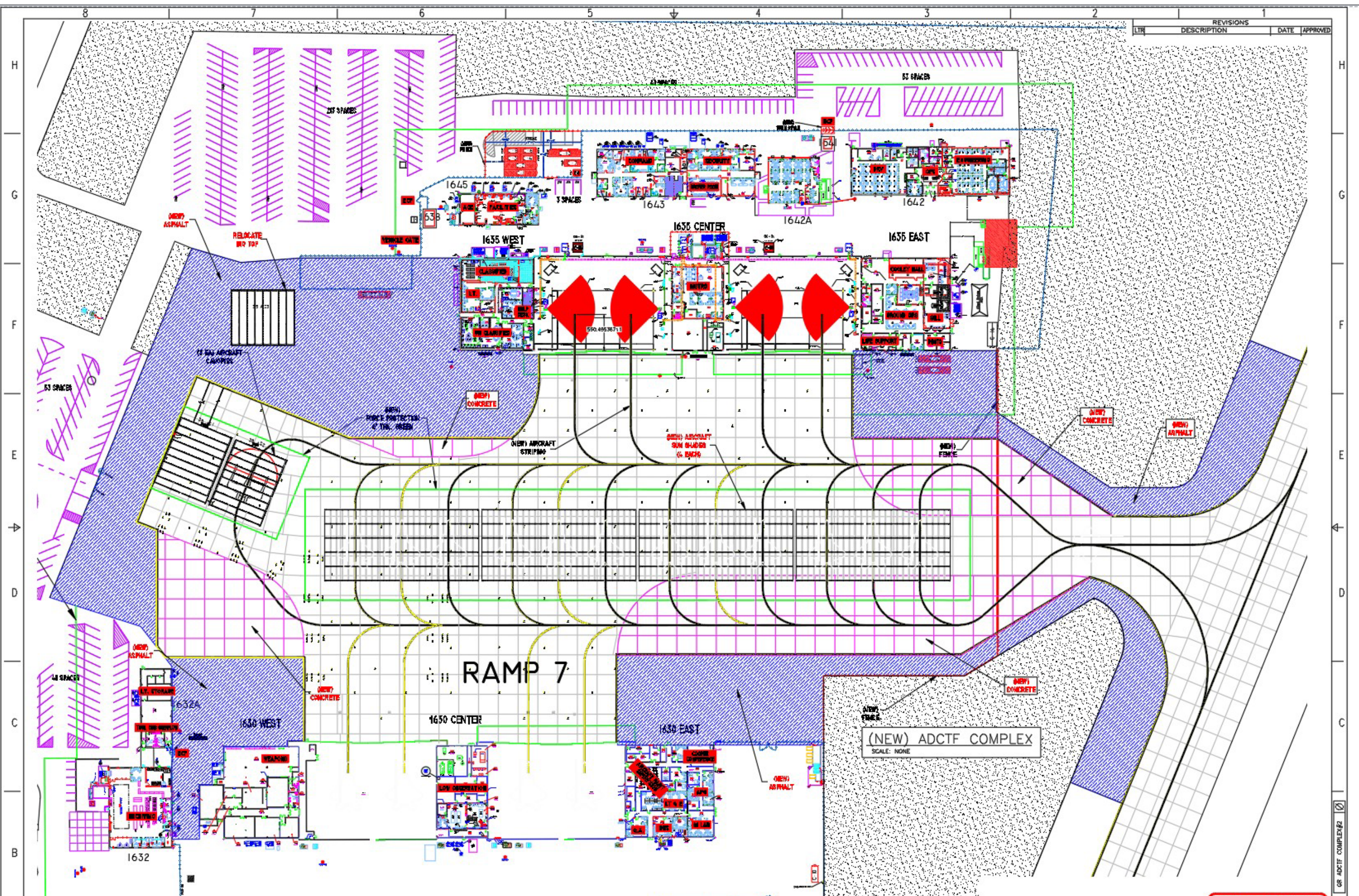
12.0 OPSEC

12.1 The Contractor shall comply with DOD, USAF, and locally established Operations Security (OPSEC) policies and procedures to protect sensitive and unclassified information and/or equipment, which is furnished to and operated by the Contractor, and prevent compromise of classified information and equipment.

12.2 Contractor shall maintain Operations Security (OPSEC) in accordance with DOD Directive & Manual 5205.02, DOD Operations Security (OPSEC) Program, AFI 10-701, Operations Security (OPSEC), and Edwards AFB OPSEC policies and procedures.

12.3 Completion of OPSEC Training of contractor employees offered by the Government IAW AFI 10-701, para. 4.1 and 4.2.3 shall be required of all Contractor employees within 90 days of initiating work. Access to mission critical information will not be allowed until OPSEC education has been completed and documented. This training provides Contractor employees with the requisite knowledge necessary to remain vigilant for possible threats, understand basic security procedures, understand the obligation to report security violations and the continued obligation to safeguard information. The requiring unit Security Manager/OPSEC Coordinator will coordinate and track completed training with the Contractor.

12.4 Contact the unit Security Manager/OPSEC Coordinator or Wing OPSEC Signature Manager at (661) 277-2066 for questions or reporting.



ENVIRONMENTAL MANAGEMENT MEASURES

This project (Control No. 26-0022, *Replace 4 Sunshades on Ramp 7*) qualifies for DoD NEPA Implementing Procedures, Appendix A.II.12 and A.II.14 (Previously CATEX A2.3.12 and A2.3.14 under 32 CFR Part 989, Appendix B). **The project is approved contingent upon compliance with the following minimization measures.**

NEPA/EIAP:

1. The proponent shall inform Environmental Management's EIAP Planners of all changes to the project scope and addition/inclusion of an Environmental Protection Plan. The proponent shall also provide the Statement of Work to ensure that the *National Environmental Policy Act* (NEPA) analysis stays current and that all environmental issues are addressed. Contact Environmental Management at 412ceg.ceva.eiapworkflow@us.af.mil for more information.

AICUZ/Land Use:

2. New construction, renovation, or demolition in proximity to the flightline may increase the potential for foreign objects on taxiways or runways used by aircraft. The contractor shall contact 412 OSS/OSAM (Airfield Management) at (661) 277-3808 for Foreign Object Damage (FOD) reduction measures.

Air Quality:

3. **Should you have any questions or concerns regarding air permitting requirements and Measures, please contact 412 CEG/CEVC Environmental Management, Air Quality Program at the following:**
 - **John Vidic; tel. no. (661) 227-1457, e-mail address: john.vidic@us.af.mil or**
 - **Nadine Bernal; tel. no. (661) 277-1913, e-mail address: nadine.bernal.1@us.af.mil.**
4. Maintain speed limits on unpaved roads on base between 5 and 35 miles per hour (mph) according to the posted speed limit. Use water trucks once or twice a day to keep soil damp on frequently traveled unpaved roads (more than 20 vehicle trips per day). Maximum speed limit on unpaved roads that do not employ dust control measures is 15 mph. Apply gravel, mulch, or chemical stabilizers to suppress dust on unpaved roads longer than 75 feet long. Chemical/organic stabilizers and dust suppressants shall not violate State Water Quality Control Board standards and be accepted by CARB, EPA, and the local District. (*EKAPCD Rule 402.IV.A.6 & 402.V.B.E.3 & 402.VII.A-D; MDAQMD Rule 403-2.C.2.a,b & 403-2.D.1.o; AVAQMD Rule 403.C.8,9 & 403.F.2.b*).
5. Use water trucks to keep soil damp while earthmoving work is performed on disturbed areas greater than 1/2 acres and limit work hours to days where the wind speed is below 25 miles per hour. Coordinate earthmoving activities to limit cut, fill, and grading activities to less than 10,000 cubic yards per day and compact earth by rolling between stages. Stabilize graded surface when next development phase is not executed within 30 days. (*EKAPCD Rule 402.II.CC & 402.IV.A.3 & 402.IV.B & 402.V.B.E.1-4; MDAQMD Rule 403.C.6; & AVAQMD Rule 403.C.4,10-14 & 403.F.2.a*)
6. Use 3-sided wind barriers with less than 50% porosity (fencing, screens, etc.) around bulk storage piles and disturbed areas measuring greater than 3 feet in height and 500 square feet in area. The height of the barriers should be equal to height of a storage pile. Install coverings for open storage piles anchored sufficiently to prevent removal by wind, and/or apply water, dust suppressant, or mulch to keep pile damp. Limit bulk material storage piles to less than 100 cubic yards when not actively in use. (*EKAPCD Rule 402.II.GG & 402.IV.A.3 & 402.IV.C.1,4 & 402.V.B; MDAQMD Rule 403.C.8.d,g; & AVAQMD Rule 403.B.17 & 403.C.6,13 & 403.F.1.c*)
7. Dirt track-out shall not extend more than 50 feet from the point of origin. Cleanup project-related dirt track out or bulk material spills on publicly maintained paved surfaces within 24 hours. Worksites of 5 or more acres must take measures to prevent dirt track out such as paving, installing grizzlies or pads,

street sweeping, washing, or other approved methods. (*EKAPCD Rule 402.IV.A.3 & 402.V.B,F; MDAQMD Rule 403.C.6 & C.8.i,j-k; AVAQMD Rule 403.C.3 & 403.F.1.c*)

8. All vehicles hauling bulk materials or debris must be adequately sealed, (tailgate closed with no gaps), covered with a tarp, and leave a freeboard of 6 inches when transporting material a distance of 12 feet or greater. (*EKAPCD Rule 402.IV.A.3,C.3 & 402.V.B*).
9. Prior to commencing earth-moving activities impacting 10 or more acres, exceeding a daily volume of 10,000 cubic yards, or relocating 2500 cubic yards per day of bulk material in the **Eastern Kern Air Pollution Control District**: (i) prepare and submit to the EKAPCD, a Dust Control Plan that describes all applicable dust control measures that must be implemented at the project; (ii) provide signs and working phone number for dust complaints that can be mitigated under a dust control supervisor; (iii) dust contingency control measures shall be specified for immediate implementation; and (iv) employ background PM monitoring where applicable. A Permit to Operate may be also be obtained for certain sources with significant dust emissions (*EKAPCD Rule 402.V.D*)
10. All portable and stationary engines (emergency generators, start carts, air/power carts, etc.) with a rating of 50 brake horsepower and greater must either have an air quality permit, be registered under the California Air Resources Board (CARB) Statewide Portable Equipment Registration Program (PERP), or, if Air Force owned, must be listed under the Edwards AFB Tactical Support Equipment (TSE) permit. Information must be provided to Environmental Management describing the make, model, serial number, capacity, horsepower, electrical rating, and other appropriate parameters of the engine. (*13 CCR 2450; 17 CCR 93116; EKAPCD Rule 202.I.D; MDAQMD Rule 219.E.1.d; AVAQMD Rule 219.E.2.f & 2100*).
11. All portable and stationary engines and off-road vehicles must be certified to the appropriate EPA Tier rating and CARB Executive Order emission standards. All new portable engines (including off-road equipment) must meet Tier IV emissions rating, except TSE may use a lower Tier rating not lower than Tier 2. In-use portable engines may be certified to lower Tier emissions standards provided documentation of existing air permits or CARB registration demonstrate the engine meets the appropriate Tier standard for the year placed in service. (*40 CFR 89 & 94 & 1039 & 1042; 13 CCR Chapter 2400-2450; 17 CCR 93116 EKAPCD Rule 202.I.D*).
12. Owners and/ or operators of in-use off-road diesel, gasoline, liquefied petroleum gas (LPG), and other alternate fuels vehicles rated 25 horsepower (hp) or greater (i.e. loaders, crawlers tractors, skid steers, backhoes, forklifts, etc.) must meet current emission standards and fleet requirements pursuant to CARB regulations. The equipment must be registered under the Diesel Off-road Online Reporting System (DOORS) or maintain a local permit. New equipment must be certified to an equivalent of Tier 3 or higher emission standard. (*13 CCR Chapter 2430a.1 & 2449.b.1, d.6.C; EKAPCD Rule 202.I.D*).
13. Only use gasoline, diesel, or alternative fuels that meet CARB certification specifications for ultra-low sulfur content and aromatic hydrocarbon content requirements. (*13 CCR 2281-2285; 17 CCR 93114*).
14. CARB Fleet requirements for in-use off road equipment rated 25 hp or greater (construction equipment) and on-road diesel fueled vehicles with a gross vehicle weight greater than 10,000 pounds (semis, trucks, buses) limit idling to no more than 5 minutes when not actively in use. A vehicle may be allowed to idle for longer periods provided idling is necessary for safe operation of the vehicle or safety of the vehicle operator (emergency vehicles, air conditioning during excessive heat warnings, heating when temperature is below freezing). (*13 CCR Chapter 2449.b.1, d.2 & 2480 & 2485*).
15. For any portable engine or off-road vehicle used by a contractor, rental agency, or other party registered with CARB, the contractor shall be responsible maintaining PERP/TSE/DOORS registration and notifying the Air Pollution Control District of any generators (EKAPCD, MDAQMD, or AVAQMD) brought on Edwards AFB. (*13 CCR 2450; 17 CCR 93116; EKAPCD Rule 202.I.D*).
16. Proposed projects that use coatings, adhesives, lubricants, cleaners or solvents must comply with volatile organic compound (VOC) content and Hazardous Air Pollutant (HAP) limitations at levels ranging between 0 to 730 grams/liter, depending upon the application and regulating authority. Coatings used in

construction activities must comply with Architectural Coating Rules and Organic Solvent Rules. Coatings used in manufacturing or industrial applications may require a permit to operate while others may qualify as an exemption. Contact Environmental Management for additional guidance. (40 CFR 59 & 60.390, 60.740, 63.741, 63.460, 63.480, 63.530, 63.741, 63.820, 63.3080, 63.3880, 63.4480, 63.4680, 63.5780; 17 CCR 93101-103, 93111-93112, 94500-94700; EKAPCD Rule 410, 410-1A, 410-2, 410-3, 410-4, 410-4A, 410-5, 410-7, 410-8, 410-9, & 432; MDAQMD Rule 442, 443, 1104, 1106, 1113, 1114, 1115, 1116, 1117, 1118, & 1162, 1168; AVAQMD Rule 442, 443, 481, 1104, 1106-1, 1107, 1108, 1108-1, 1113, 1122, 1124, 1130, 1136, 1141-1, 1145, 1151, 1151-1, 1162, 1168, & 1171).

17. Common household and automotive products must comply with VOC and HAP content regulated under the CARB Consumer Products Rule regardless of exemption granted through the Hazmat Pharmacy. Compliance with CARB coatings, solvents, and consumer product rules can be achieved by using products manufactured for sale in California. Base personnel shall report all chemicals/materials they procure for this project by any means other than the Hazmat Pharmacy to Environmental Management in order to determine if a permit to operate may be required. (40 CFR 59; 17 CCR 94500-94700; EKAPCD Rule 202.II.1; MDAQMD Rule 219.E.13; AVAQMD Rule 219.E.12).
18. Contractors are responsible for obtaining all required permits and registrations prior to bringing any equipment/vehicles on Base. Emissions from permitted devices and activities must be tracked and reported to the CARB, local air quality district and the U.S. EPA. Air quality permits, if required, shall be coordinated through the lead agency for air quality permitting and Environmental Management. Records of permits, CARB registrations, and required monitoring must be forwarded to Environmental Management. Contact (661) 277-1457 or 277-9210 for coordination. (40 CFR 70 & 71; 13 CCR 2450; EKAPCD Rule 201).
19. Project will install new sunshades on ramp 7 including trenching for utilities and communications.
20. Project area estimated at 60,000 square feet with 250 feet of trenching.
21. Project was analyzed as 120,000 square feet with 500 feet of trenching.
22. Project must comply with EKAPCD Organic Solvent Rules 410, 410-2, Architectural Coating Rule 410-1A. Asphalt activities must comply with Cutback, Slow Cure & Emulsified Asphalt Paving and Maintenance Operations Rule 410.5.

Water Resources/Wastewater/Stormwater:

23. All temporary and permanent connections to the base potable water system, such as water mains, fire hydrants and hose-bib connections shall be equipped with a backflow device. Contact the Water and Gas Systems supervisor at (661) 277-5004 for approval prior to making connections.
 - If new lines are installed: Confirm that new lines are properly connected.
24. The proposed project shall comply with Air Force Test Center Instruction (EAFBI) 32-601, *Edwards AFB Wastewater Instruction*. Contact Environmental Management at (661) 277-9223 or 412CEG.CEVC.WastewaterPOLTanks@us.af.mil.

OCCUPATIONAL SAFETY AND HEALTH:

Environmental Restoration Program (ERP):

43. The project location is located near an Environmental Restoration Program (ERP) Site 21 (attached ERP Map), also known as *Site ST021*. ERP groundwater monitoring well is located east, west, and north of the project location. Damage to ERP equipment and infrastructure must be avoided (Measure #44) or Measure #45 shall be followed. Groundwater Nitrate Related Plume also exist within the project location. If the contractor notices soil discoloration or odors during any indoor/outdoor activities, they shall report this observation immediately to Bioenvironmental Engineering (412 OMRS/SGPB) at (661) 277-3272. Contact [Operable Unit Manager Julia Tseng] at (661) 277- 1415 or 277-1401 for additional information about this ERP site.

44. To avoid damage to ERP equipment and infrastructure, maintain a 10-foot buffer around them. Be cautious of the groundwater monitoring wells when performing work within project location.
45. If change and/or damage to ERP equipment and infrastructure occurs during project activities, the contractor is responsible to re-establish and/or repair them by an accredited ERP subcontractor within the timeframe agreed upon with the ERP Manager.

Toxics (Asbestos, Lead, PCBs, Mercury, etc) and Universal Wastes:

46. All untested building materials, except unpainted wood, metal and glass, regardless of age, are assumed to contain asbestos until testing has proven otherwise.
47. All paint, regardless of age, is assumed to contain lead for OSHA purposes, until testing has proven otherwise.
48. *National Emission Standards for Hazardous Air Pollutants (NESHAP) Notification* is required by regulation to be submitted to the Eastern Kern Air Pollution Control District (EKAPCD) for ALL DEMOLITIONS and for ANY PROJECT (demolition or renovation) disturbing regulated asbestos containing material (RACM) above the EKAPCD de minimis amounts. Per the Edwards AFB Asbestos Management Plan (AMP), courtesy notification is required for any project that disturbs any asbestos, even below de minimis amounts. All asbestos notifications are required to be submitted to through the Contracting Officer or Air Force project manager to the 412 CES/CEOER (Asbestos and Lead Operations Officer) and 412 CEG/CEV (Environmental Management, Toxic Substances) for review and approval five working days prior to submission of the notification to EKAPCD; revision shall be submitted for approval before the revised work commences.
49. This project has the potential to encounter or disturb asbestos-containing material (ACM) and/or lead paint. Contact the 412 CES/CEOER (Asbestos and Lead Operations Officer) at (661) 277-4475 for survey data and potential survey requirements. If additional information is still required regarding Edwards AFB rules and regulations, contact 412 CEG/CEV (Environmental Management, Toxic Substances) at (661) 277-1468.
50. This project has the potential to encounter or disturb asbestos-containing material (ACM) and/or lead paint. Contact the 412 CES/CEOER (Asbestos and Lead Operations Officer) at (661) 277-4475 for survey data and potential survey requirements. If additional information is still required regarding Edwards AFB rules and regulations, contact 412 CEG/CEV (Environmental Management, Toxic Substances) at (661) 277-1859.
51. Areas that will be disturbed by the proposed project activities contact the 412 CES/CEOER (Asbestos and Lead Operations Officer) at (661) 277-4475 for asbestos-containing materials (ACM)/lead-based paint (LBP) survey information. The Asbestos and Lead Operations Officer will advise if existing survey information is adequate or if additional sampling is required in order to determine if ACM/LBP is present in areas to be disturbed.
52. Asbestos (and lead) material survey(s) and inspection(s) require a thorough and detailed sampling plan to be developed in accordance with the Edwards AFB Asbestos Operating Plan (AOP), and submitted through the Air Force project manager to the 412 CES/CEOER (Asbestos and Lead Operations Officer), 412 CEG/CEV (Environmental Management, Toxic Substances), and 412 OMRS/SGPB (Bioenvironmental Engineering) for review and acceptance. For questions regarding the sampling plan contact the 412 CES/CEOER (Asbestos and Lead Operations Officer) at (661) 277-4475.
53. Prior to being accepted as final to ensure all applicable rules and regulations are met (typically AOP, project specifications, 40 CFR Part 61, Federal and California OSHA, HUD Guidelines, etc); all asbestos and/or lead survey inspection reports shall be submitted through the Air Force project manager to the 412 CES/CEOER (Asbestos and Lead Operations Officer), 412 CEG/CEV (Environmental Management, Toxic Substances), and 412 OMRS/SGPB (Bioenvironmental Engineering) for review and approval.

54. If asbestos or lead is detected in areas that will be disturbed, contact the 412 CES/CEOER (Asbestos and Lead Operations Officer) at (661) 277-4475 for direction regarding asbestos and/or lead removal and disposal requirements, and work plan submittal requirements. For questions regarding rules and regulations contact 412 CEG/CEV (Environmental Management, Toxic Substances) at (661) 277-1468 or 277-1867.
55. Asbestos and/or lead related project work plans, survey/inspections, and/or specification and design packages shall be submitted in accordance with the Edwards AFB Asbestos and/or Lead Management Plans, through the Contracting Officer or the Air Force Project Manager to the 412 CES/CEOER (Asbestos and Lead Operations Officer), 412 CEG/CEV (Environmental Management, Toxic Substances), and 412 OMRS/SGPB (Bioenvironmental Engineering) for review and comment (or approval as applicable) to determine if all applicable rules and regulatory requirements have been followed. Asbestos and lead work plans shall be authored and signed by a Certified Asbestos Consultant (CAC), certified by the California Division of Occupational Safety and Health, site specific, and submitted separately per the Edwards AFB Asbestos and Lead Specifications.
56. Materials unearthed or discovered during excavation (for example, piping, conduit, utilities, building material debris, etc.) have the potential to be asbestos-containing material (ACM) and/or have lead paint. To comply with potential OSHA, EPA and hazardous waste requirements, contact the 412 CES/CEOER (Asbestos and Lead Operations Officer) at (661) 277-4475 for survey and potential abatement, and disposal requirements.
57. Transite utility lines, if encountered, must be removed appropriately by trained workers.
58. No materials that contain asbestos or lead above the allowed Consumer Product Safety Commission limit shall be used in new construction. Ensure that the specifications and contracts for services indicate that no asbestos and/or lead materials will be used at Edwards AFB unless specified by a Technical Order or other documentation, and have the contractor sign a document stating that no asbestos and/or lead materials have been used.
59. The installation will not specify, purchase, use, or approve for use any asbestos and/or paint (or other materials) containing lead above 0.009 percent by weight as specified by the Consumer Product Safety Commission.
60. All types of batteries and unpunctured aerosol cans must be managed as universal waste. For information on the proper packaging, storage, and shipping of universal wastes, contact 412 CEG/CEVC's Consolidation, Recycling, and Universal Waste (CRUW) Facility at (661) 277-3681 or 412 CEG/CEVC at 277-1885.
61. If electrical components containing dielectric material are scheduled for removal, they must be checked (or sampled as necessary) for polychlorinated biphenyls (PCBs), a potential hazardous or regulated waste. The contractor shall coordinate PCB sampling, removal, storage, and disposal activities with 412 CEG/CEV at (661) 277-1885 or Environmental Management's contractor at 277-3681.
62. Mercury can be found in high-intensity discharge (HID) lamps, fluorescent lamps, mercury vapor lamps, switches, thermostats, etc. The introduction of mercury-containing materials on Edwards AFB should be minimized when possible and substituted with more environmentally friendly products. Mercury-containing materials are managed as hazardous and universal wastes. For information on the proper packaging, storage, and shipping of universal wastes, contact 412 CEG/CEVC's Consolidation, Recycling, and Universal Waste (CRUW) Facility at (661) 277-3681 or 412 CEG/CEVC at (661) 277-1885.

Hazardous Materials/Hazardous Waste:

63. If there is an accidental pollution release and/or hazardous materials (HAZMAT), all associated costs of response actions and cleanup to protect human health and the environment, are the responsibility of the organization that caused the release. All spills or releases of hazardous materials or hazardous wastes that occur during this project, regardless of quantity or location of spill, must be reported immediately to

the Base Fire Department. Immediately call 911 from a landline or (661) 277-4550 from a cell phone and request Environmental Management be contacted in the event of any accident, negligence, or other occurrence that causes discharge to the sewer of any material whose nature and quantity might be reasonably judged to constitute a hazard to the public health, environment, personnel, or wastewater treatment facilities. Contractor shall follow the Spill Immediate Actions guide when a spill occurs.

64. The Contractor shall ensure all hazardous materials (HM), Hazardous Material Identification and Material Safety Data, and Pollution Prevention and Right-to-Know Information are authorized and managed in compliance with applicable laws, regulations, and applicable sections of DAFMAN 32-7002, Environmental Compliance and Pollution Prevention, and Edwards Air Force Base (AFB) HM policy, to ensure compliance with Emergency Planning and Community Right-to-Know Act of 1986 (42 U.S.C. 11001-11050), and Pollution Prevention Act of 1990 (42 U.S.C. 13101-13109).
- Safety Data Sheet (SDS) submissions, accompanied by a completed Contractor Hazardous Material Approval Form, are required for chemicals/materials not sourced from an installation HAZMART, and must be approved by the Edwards AFB Hazardous Material Program including the initial submission by the apparently successful offeror prior to award, and prior to use for any subsequent SDS submissions by the contractor during performance of the contract.
 - The Contractor shall utilize the Contractor Hazardous Materials Usage Form to capture monthly usage data for hazardous chemicals/materials not sourced from an installation HAZMART that were used on the installation in performance of this contract. The Contractor shall submit the usage form to the Contracting Officer identified COR/Government Point of Contact (GPOC) by the 5th of the following month during performance and at completion of work.
 - The Point of Contact for questions concerning Hazardous Materials or SDS submissions prior to award is the Contracting Officer. After award and during contract performance, contact the Edwards AFB Environmental Management Office at (661) 277-1401 or email 412CEG.CEVC.HMWorkflow@us.af.mil, for the HM exempt list and guidance regarding HM regulatory, usage, and tracking form requirements.
65. The Contractor shall ensure that solid and hazardous waste (HW) management on this project complies with all applicable sections of Air Force Manual 32-7002, Environmental Compliance and Pollution Prevention, the Edwards Air Force Base (AFB) Hazardous Waste Management Plan (HWMP) and Integrated Solid Waste Management Plan, the California Health and Safety Code (HSC), Title 22 California Code of Regulations (CCR), and Title 40 Code of Federal Regulations (CFR).
- Hazardous/regulated waste shall be disposed of under the Edwards AFB, US Environmental Protection Agency (EPA) ID number, with Edwards AFB as the Generator, unless the Contractor is considered "other persons" under the Resource Conservation and Recovery Act (RCRA) and operates their HW activities independent of Edwards AFB using their own US EPA ID number.
 - Signed HW disposal manifests shall be required for HW that may be generated on this project prior to transportation for off-site disposal to a California Department of Toxic Substance Control (DTSC) and/or US EPA-approved landfill or treatment facility. The Contractor shall submit draft manifests via email to the Edwards AFB Environmental Management Office at 412CEG.CEVC.HWWorkflow@us.af.mil for review. After the draft manifests have been approved, the waste shipment must be scheduled with the Environmental Office to arrange for manifest signature by government personnel with Signature Authority. Contact the Hazardous Waste Support Facility (HWSF) personnel at (661) 277-3681, the 412CEG/CEVC HW Program Manager at (661) 277-1885, or email 412CEG.CEVC.HWWorkflow@us.af.mil for questions or additional information.

Solid Waste:

66. The contractor shall ensure that all solid waste management on the proposed project complies with all applicable sections of AFMAN 32-7002 Environmental Compliance and Pollution Prevention, and the Edwards Air Force Base Integrated Solid Waste Management Plan (ISWMP), including AFMAN 32-7002 6.6.3.5. "Installations or organizational proponents with contracted activities that generate waste must ensure that, to the extent required by law (as outlined in DoDI 4715.23), provisions are included in

the contract to obligate the contractor to participate in the installation's program (whether QRP or otherwise) for recyclable wastes generated on the installation, where applicable. (T-0)." Contact 412 CEG/CEVC at (661)-277-1909 or (661) 277-1411 for questions and guidance.

- In accordance with AFMAN 32-7002, 6.3, the contractor shall provide copies of all "weight certificates, shipping receipts, financial statements, and all other related documentation from SW generating contractors" to the Base Civil Engineer, and the ISWM PM.

67. The contractor shall handle, store, and manage its solid wastes in a manner consistent with the Base's procedures including transfer of all solid waste generated to an off-base state licensed landfill. Use of the EAFB Main Base Active Landfill is only allowed when it is specified in the contract. Contact 412 CEG/CEO at (661) 277-1167 or 412 CEG/CEVC at (661) 277-1411 for information on segregation requirements for recyclables and for solid waste disposal.
68. The Contractor shall strive to recycle as much cardboard, paper, plastic, wood, and metal as possible through the Base's Qualified Recycling Program (QRP), and shall develop a strict recycling, trash, litter and FOD control program. The recycling and litter control program shall consist of supplying an adequate number of covered recycling, trash and litter receptacles in all appropriate locations. The QRP may be able to provide limited additional recycling containers and bins as required (call (661) 277-1167 for coordination). The contractor must remove all debris as a result of the contract activity.
69. The contractor shall remove all hazardous materials from scrap metal and other materials being recycled prior to releasing or delivering the materials to the Base Qualified Recycling Program. Contact 412 CEG/CEO at (661) 277-1167 for additional information on material recycling.
70. The contractor shall maintain records on all non-hazardous waste and recycling generated as a result of any activities associated with the project. Records will specify: total tonnages of solid waste disposed; solid waste diverted/recycled; construction and demolition (C&D) waste disposed; C&D waste diverted/recycled; concrete and asphalt disposed; concrete and asphalt diverted/recycled; scrap metal recycled; and equipment reused, sold, or donated by nomenclature and quantity. Total disposal costs, and recycling proceeds and costs (to include equipment sales) shall also be reported to 412 CEG/CEV on a quarterly basis or at the end of the project for those lasting less than one quarter. Contact 412 CEG/CEO at (661) 277-1167 or 412 CEG/CEVC at 277-1411 for information.
71. The contractor shall be responsible for collection and disposal of inert debris to include waste concrete, asphalt and concrete rinsate generated from project activities. These shall be collected in a designated area within the project work site. At project completion, all unused inert debris must be removed from project site, concrete rinsate must be dry, and disposal of waste will be in an approved base inert debris borrow location or off base landfill. The use of fully cured asphalt, uncontaminated concrete (including steel reinforcing rods embedded in the concrete), crushed glass, brick, ceramics, clay and clay products, which may be mixed with rock and soil is allowable in connection with road building, road repair, airport runway construction, bridge and roadway work, levee work, flood control work, and all associated activities IAW 14 CCR, Section 17388.2.(a)(6). Provision must be made during the project planning phases, to process all inert debris remaining on Base into a recycled concrete aggregate, cobble, recycled asphalt, or other construction product. Use of the Main Base Active Landfill or other Base facilities and/or properties for diversion, stockpiling, or disposal of processed inert debris must be specified in the contract prior to acceptance at any of these locations. Contact 412 CEG/CEO at (661) 277-1167 for information on base inert debris locations. Contact 412 CEG/CEVC at 277-1411 for inert debris disposal requirements.

Natural Resources:

72. The following measures follow the terms and conditions for the U.S. Fish and Wildlife Service Biological Opinion for: Operations and Activities Edwards Air Force Base, California (8-8-14-F-14)

regarding the effects on the federally threatened desert tortoise and its critical habitat. Contact 412 CEG/CEVA at 661-277-1417 or 412ceg.ceva.nrfielddiscovery@us.af.mil if any questions arise regarding these measures.

- The Desert Tortoise Handout (DT Handout 412 TWPA Release #18150 20180316) shall be distributed to vehicle and equipment drivers prior to accessing Edwards AFB and the project area. All workers should review the handout. If possible, the handout should also be posted at the project site.
- Project personnel shall look out for and avoid all desert tortoises on any roadways used to access the project area. All project personnel shall inspect under all vehicles and equipment for desert tortoises prior to operation. Any sightings of desert tortoise must be reported immediately to 412 CEG/CEVA at (661) 277-1417.
- Open excavations will be checked three times a day and authorized personnel will remove any trapped animals. Open excavations will be covered, backfilled, or fenced at the end of each workday. At the ends of a ditch or trench, a 3: 1 slope will be created to allow wildlife to exit should they become trapped in the ditch or trench. All open excavations that are left unattended will be fenced, unless other approved methods of excluding desert tortoises are employed.
- All trash and food items will be disposed of in common raven-proof containers, and regularly removed from project sites to reduce attraction of common ravens.
- Any pipes stored within the area shall be capped on open ends or elevated at least 12 inches off the ground to prevent entry by desert tortoise or other wildlife.
- Parking and staging areas will be restricted to previously disturbed areas.

73. Contact 412 CEG/CEVA at (661) 277-1417 if an active bird nest (nest with eggs, unfledged birds, or adult birds observed in the nest) or burrowing owl burrow is found within the project area and cannot be avoided.

74. Contact 412 CEG/CEVA at (661) 277-1417 if bats are observed roosting in the project area.

75. Avoid creating ponding water in or near project area, so that it minimizes the attraction of wildlife, such as desert tortoise and birds, and create aircraft collision hazards or increase the potential for accidental takes.

Cultural Resources:

76. The proposed project, *Replace 4 Sunshades on Ramp 7*, is an undertaking subject to Section 106 of the National Historic Preservation Act (NHPA), as defined in 36 CFR §800.16(y). The Edwards AFB Cultural Resources Manager (CRM), or qualified personnel under the direction or supervision of the CRM, has reviewed the proposed undertaking and determined that the project **will have no effect on historic properties**, provided the following measures are strictly adhered to:

- Consultation is not required based on Appendix A of the Advisory Council on Historic Preservation (ACHP) "Program Comment on Certain Housing, Building, and Transportation Undertakings."

77. If inadvertent above- or below-ground discoveries (e.g., artifacts or bones) are made during the project's execution:

The Contractor must:

- Immediately cease activity in the area of the discovery.

- Notify the supervising Project Manager.
- Secure the discovery location and establish a 50-foot buffer zone around the discovery.

The Project Manager shall:

- Immediately notify the CRM of the discovery at 412CEG.CEVA.CulturalResources@us.af.mil.
- Confirm that the activity has ceased within 50 feet of the discovery.
- Examine the location of the discovery to ensure that it has been properly secured. Take appropriate measures to further secure the location, if needed.
- Await review by CRM before returning to work in the area of discovery.

78. If the undertaking is modified subsequent to this review, the proponent shall coordinate with Cultural Resources to ensure compliance with Section 106 of the NHPA, as amended. Coordination can be accomplished by contacting 412 CEG/CEVA at 412CEG.CEVA.CulturalResources@us.af.mil.

79. Based upon the information provided, there is no requirement to consult with the California State Historic Preservation Officer.

Other Permits:

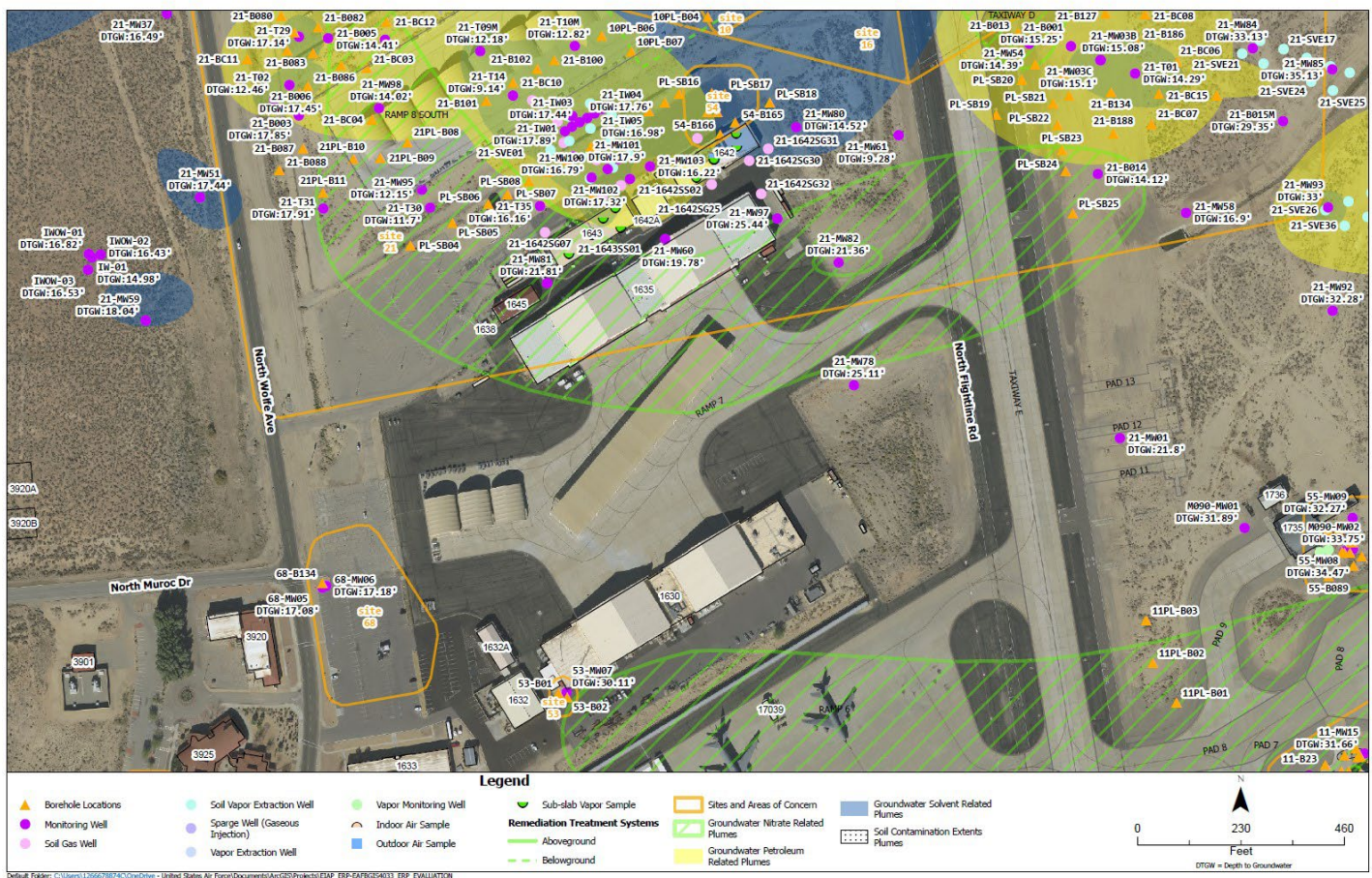
80. This project may require an AFTC IMT 5926, *Edwards AFB Civil Engineering Work Clearance Request* (digging permit). The contractor shall coordinate the digging permit with the Base Civil Engineer Execution Support by contacting 412 CEG/CENME at (661) 277-1530 for specific requirements.

Dependent on dig location, these minimization measures are subject to change.

General Environmental Division Contact:

81. In the event you are unable to contact an environmental person at one of the numbers above, please call (661) 277-1401.

ERP MAP



Edwards Air Force Base

Cultural Resources Awareness Training

A Cultural resources can be defined as physical evidence or place of past human activity: site, object, landscape, structure; or a site, structure, landscape, object or natural feature of significance to a group of people traditionally associated with it (https://www.nps.gov/acad/learn/management/rm_culturalresources.htm)

At EAFB cultural resources include historic-era resources (typically more than 50 years old), military resources (related to the historic and modern military use of the area), and American Indian resources (generally called *Prehistoric* resources). Some of these resources as much as 12,000 years old

It is our goal to protect these resources because once they are gone we cannot ever get them back.

**L
A
W
S**

Archaeological Resources Protection Act

American Antiquities Act

Native American Graves Protection and Repatriation Act

Air Force Instruction 32-7065

National Historic Preservation Act, Sections 106 and 110

Native American Graves Protection and Repatriation Act



not drop it, do not



**EDWARDS AFB
ARCHAEOLOGICAL
SITES ARE
FEDERALLY
PROTECTED**



**UNLAWFUL
TO
DIG
DAMAGE
OR
REMOVE
ITEMS**

- ➔ If you did pick it up
- ➔ If it is not yours, leave it alone
- ➔ The Environmental Management Group works closely with security to enforce Cultural Resources protection, including cameras near archaeological sites.





Desert Tortoise

(*Gopherus agassizii*)



Adult



Juvenile



Burrow

- ❖ Federally protected as Threatened by the Endangered Species Act.
- ❖ Official state reptile of California! Soft scaly body with a hard shell. Could be green, grey, tan, or brown. Only 1.5 inches in diameter after hatching, but up to 1 foot in diameter as adult.
- ❖ Desert Tortoise protection at Edwards AFB is mandated by the U.S. Fish and Wildlife Service Biological Opinion: "Operations and Activities at Edwards Air Force Base, California" (8-8-14-F-14).
- ❖ Unauthorized collection, handling or harassment can be prosecuted: Fines up to \$50,000 and/or 1 year imprisonment.
- ❖ Often looks like a moving rock and hard to spot!
- ❖ Spends over 90% of its life underground in burrows.
- ❖ Most active in Spring and Fall but possible to see all year-round especially after a rain.
- ❖ Attracted to water. Often seen where puddling occurs during or after a rain (like road shoulders).
- ❖ Found throughout the Mojave and parts of the Sonoran Desert.

If tortoise found in immediate danger (on the road), and it is safe to do so, please move it:

Approach slowly from the front

Carefully lift tortoise by the sides with 2 hands and keep level

Move tortoise at least 100 feet away, in the shade, in the same direction it was going.

Call
412 CEG/CEVA
661-277-1417
661-277-1401



How you can protect the Desert Tortoise

- Do not handle a tortoise unless it is on the road and in immediate danger.
- If a tortoise is on the road in immediate danger, you may move the tortoise off the road.
- Check under parked vehicles and equipment before moving or operating.
- Keep vehicles and equipment on existing or approved roads and staging areas.
- If tortoise is sighted in project area, call 412 CEG/CEVA. Observe from a distance.
- Do not attract ravens. Ravens are a major predator of the Desert Tortoise. Keep trash in raven-proof containers. Make sure lids are tightly closed. Do not feed the wildlife!
- Ensure water tanks and trucks are free of water leaks that might attract predators.





DT Handout 412 TW/PA Release #18150 20180316