STATEMENT OF WORK
ORDNANCE AND EXPLOSIVES (OE) SURFACE CLEARANCE
FOR CONSTRUCTION SUPPORT
FORT McClellan
Modified 20 Nov 2000

1.0 OBJECTIVE. The objective of this task order is to perform a surface to near surface clearance of all OE (UXO and inert ordnance) and all metallic debris larger than three (3) inches in any dimension, for a known Ordnance and Explosives (OE) impact area within the proposed Eastern Bypass area at the Fort McClellan Army Depot, Fort McClellan, Alabama. This clearance is an interim action to support preliminary construction activities for the design of the Eastern Bypass. An Engineering Evaluation/Cost Analysis (EE/CA) is currently being conducted for the Proposed Eastern Bypass, which will recommend the final clearance objectives for the proposed land use.

2. 0 BACKGROUND.

2.1 General.

2.1.1 The work required under this Scope of Work (SOW) falls under the Base Realignment and Closure. Ordnance and Explosives (OE) and OE-related scrap contamination is suspected to exist on this property owned by the Department of the Army.

2.1.2 OE is a safety hazard and may constitute an imminent endangerment. Unexploded ordnance (UXO) may be buried on the site or may possibly be on the ground surface. During this removal action, it is the Government's intent that the Contractor destroys, by detonation on-site, all Unexploded Ordnance (UXO) encountered. Chemical Warfare Materiels (CWM) is not suspected to exist within the limits where this work will be performed although CWM was stored at Fort McClellan. However, if any suspect CWM is discovered, the Contractor shall stop work immediately, withdraw upwind from the area, and notify the Fort McClellan Range Control office. The work done under this SOW will be performed in a manner consistent with the comprehensive Environmental Response, Compensation, and Liability Act (CERLA) Section 104, and the National Contingency Plan

(NCP) Sections 300.120(d) and 300.400(e). The applicable provisions of 29 CFR 1910.120 shall apply.

2.1.3 Work Limitations. Due to the inherent risk in this type of operation, the Contractor shall be limited to a 40-hour workweek (either five 8-hour days or four 10-hour days). UXO personnel shall not perform UXO-related tasks more than 10 hours per day.

2.2 Site Description. Fort McClellan is located northeast of the City of Anniston, Calhoun County, Alabama. To the west are the areas known as Weaver and Blue Mountain. To the North is the City of Jacksonville. The Talladega Forest is to the east of the post.

2.3 Site History. Fort McClellan has been used for artillery training of troops and the National Guard as early as 1912 to present day. In 1941, McClellan became site of the Chemical Corps Training Command. In 1962, the U.S. Army Combat Developments Command Chemical Biological-Radiological Agency moved to Fort McClellan. In 1973, the Chemical Corps School along with the U.S. Army Combat Developments Command Chemical Biological-Radiological – Agency closed. In 1979, the U.S. Army Chemical Corps School re-established along with a training Brigade for Basic Training.

2.4 Eastern Bypass. The proposed Eastern Bypass route begins on the western boundary of the installation in the vicinity of Summerall Gate and heads due east approximately one (1) mile then turns due south for approximately 3.5 miles to the southern boundary. The proposed bypass route passes through an OE impact area in the vicinity of Iron Mountain. The portion of the impact area, which is within the proposed easements for the Eastern Bypass, consists of approximately 182 acres. The impact area consists of several ranges that were active at various times prior to 1967. Types of OE fired at these ranges as identified from ground reconnaissance and the Archive Search Report consist of 60mm HE mortars, 2.36 rockets, and small arms. Density of ordnance in this impact area is considered medium to high. Additional areas within the proposed bypass which will require a surface to near surface clearance includes approximately 103 acres located north and northwest of the known impact area extending to Summerall Gate. The contractor shall also clear the area along the northwest portion of the bypass easement that extends east to Iron Mountain Road. This area is approximately 15 acres in size. Items found in this area include practice 60mm rounds, expended 2.36 rockets, and rifle grenades. Density of ordnance in this area is considered

low. Magnetic rock is also predominant in these areas. Approximately 10 acres of this may require heavy brush clearing (Kudzu).

2.5 Recent OE-Related Activities. In July of 1997, CEHNC performed field reconnaissance to develop a cost analysis for clearance of ordnance from the proposed bypass route. Zapata Engineering is currently performing an EE/CA for the proposed Eastern Bypass, which will recommend final clearance objectives for contaminated areas based on the proposed land use.

3.0 DESCRIPTION OF SERVICES.

3.1 (TASK 1) Perform Site visit And Prepare Work Plan {WP).

3.1.1 Perform Site Visit. Prior to preparation of the WP, a site visit, not to exceed four days including travel time, is authorized. The site visit team shall not exceed three persons and shall include a senior UXO Supervisor who shall be assigned to the OE response effort when possible. The Contractor shall notify the CEHNC Project Manager (Mr. David Skridulis) of the proposed dates for the site visit at least ten calendar days prior to the visit. The site visit shall include coordination with the appropriate agencies to include local medical facilities, local airfield, etc. The Contractor shall prepare an Abbreviated Site Safety and Health Plan (ASSHP) prior to the site visit. This plan shall be submitted to the CEHNC Project Manager, for approval at least ten (10) days prior to conduct of the site visit.

3.1.2 Disposal Alternatives. Data Item Description {DID) OT-04, specifies when this is required. If on-site disposal in not possible, then a Disposal Feasibility Report Letter is required.

3.1.3 Prepare Work Plan. The WP shall be prepared IAW DID OT-005 to the basic contract. All UXO operations shall comply with CEHNC Safety Concepts and Basic Considerations for UXO dated 16 February 1996. The following subplans are not required: Air Monitoring Plan, Sampling and Analysis Plan, and Chemical Data Acquisition Plan (CDAP).

3.1.3.1 The Contractor shall submit a draft WP for review and a final WP for approval IAW paragraph 4.1 of this SOW.

3.2 (TASK 2) LOCATION SURVEYS AND MAPPING.

3.2.1 Surveying. The Contractor shall perform all location surveys and mapping required to establish boundaries of areas specified in Paragraph 2.0 of this SOW, and as directed in DID OT-020. Grid corners shall be established using precision surveying methods. Each corner of each grid area shall be located by establishing the appropriate state plane grid system to the closest one-foot, and shall be both tabulated and shown on maps of the site. Other coordinate systems and accuracy specifications are not acceptable and shall not be used. Individual locations of recovered UXO and inert ordnance items only shall be tape measured or the "x" and "y" distance estimated to obtain a horizontal accuracy of plus or minus one foot from the established grid corners. The Contractor shall mark and survey the corners of the designated grids with stakes or other visible temporary markers. The location of ordnance scrap, ordnance fragments, shrapnel, small arms ammunition and metallic debris shall be recorded only on a per-grid basis and not located by coordinates.

3.2.2 Items and data to be submitted to the Contracting Officer as part of the tasks are as follows:

3.2.2.1 A tabulated list of the respective grid corners for all grids being cleared in the areas described in Section 2.0 of this SOW.

3.2.2.2 An electronic and hard copy of all drawing files and reference files used for and developed as part of this removal action. These files shall meet the following requirements:

3.2.2.2.1 Each sheet shall also have a standard border, revision block, title block, complete index sheet layout, bar scale, legend, metric grid lines, grid tick layout, a magnetic north, a grid north, and a true north arrow, and be plotted at a horizontal scale of 1:2,400 (1"=200') minimum.

3.2.2.2.2 The Government shall be provided with a copy of the design files on 8 mm 5.0 or 10.0 gigabyte magnetic tapes, 3½" HD floppy disks or approved CD ROM format. CD-ROMs are preferred. The data to be submitted shall contain the final, corrected version of the design file. The tapes or disks shall be labeled, showing the project name, project number, date, company name, address and telephone number and the number of files.

3.3 (TASK 3) UNEXPLOOED ORDNANCE REMOVAL. This task shall be accomplished IAW the Technical Management Plan identified in DID OT-005 to the basic contract.

3.3.1 The Contractor shall furnish all necessary personnel and equipment to perform a surface to one foot clearance of all UXO and inert ordnance. All metallic debris larger than three (3) inches in any dimension located on the surface shall also be removed. Removal of organic material such as leaves or decaying wood to expose anomalies may be required. Soil excavation will be required when an item/UXO is partially exposed at the ground surface to permit identification of the item/UXO.

3.3.2 A planned, systematic approach shall be utilized to search and clear the project site that shall result in optimum search effectiveness. The proposed methodology shall be outlined in the WP.

3.3.3 Only CEHNC-approved UXO personnel shall perform UXO procedures IAW DID OT-025 to the basic contract.

3.3.4 The Contractor shall maintain a detailed accounting of all UXO items/components encountered on the project site. This accounting shall include the amounts of UXO, identification, condition, depth located, disposition, location/mapping, and exposure data. This accounting shall be a part of the Removal Report.

3.3.5 The contractor shall be required to remove subsurface anomalies that could potentially be UXO to a depth of 1.0 foot below ground surface. To ensure this, an instrument capable of detecting a MK II fragmentation hand grenade at one (l) foot shall be used. The chosen detection equipment shall be field tested daily to ensure that it is operating properly. This shall be accomplished by creating a calibration area of approximately 10 feet by 10 feet. Inert ordnance or equivalent test source(s) that simulate the hand grenade shall be buried to a depth of one (1) foot below ground surface within the test grid. All anomalies shall be removed prior to planting inert ordnance or equivalent test source(s). If the detection equipment does not meet the standard during the daily check, it shall be calibrated, repaired, or replaced.

3.3.6 Unless approved by the USACE Safety Specialist, all recovered UXO shall be disposed of daily.

3.3.7 The Contractor shall plan to provide demolition materials for disposal of OE items and storage facilities for demolition materials. This shall be outlined in the WP in the Explosives Management Plan (DID OT-005) to the basic contract.

3.3.8 All access/excavation/detonation holes shall be back filled to grade.

3.3.9 ETL 385-1-1, Safety Concepts and Basic Considerations for UXO Operations will be used in planning UXO operations in the Technical Management Plan.

3.3.10 TM 60A-1-1-31, General Information for EOD Disposal Procedures will be used when planning for demolition operations used when disposing of UXO and UXO-related items.

3.3.11 The provisions of EM 385-1-1, Safety and Health Requirements Manual, will be used when planning UXO operations.

3.3.12 The provisions of DID OT-025, Personnel/Work Standards, to the basic contract will be used when planning operations for the Technical Management Plan.

3.4 (TASK 4) TURN IN OF INERT ORDNANCE AND METALLIC DEBRIS. The Contractor shall furnish all necessary personnel and equipment to turn in all recovered inert ordnance items and metallic debris over 3 inches in any dimension. The methodology to accomplish this task shall be proposed in the WP.

3.4.1 Inert ordnance items shall be vented IAW DOD 4160.21-M-1, Defense Demilitarization Manual.

3.4.2 If a local DRMO is unavailable or if one is available, but is unwilling to accept scrap, the Contractor shall utilize locally available resources for disposal of scrap. The Contractor

shall complete a DD Form 1348-1 as turn-in documentation. Instructions for completion of this form are contained in the Defense Utilization and Disposal Manual, DoD 4160.21-M. The Senior UXO Supervisor shall sign a certificate as follows:

> "I certify that the property listed hereon has been inspected by me and, to the best of my knowledge and belief, contains no items of a dangerous nature."

3.4.3 Turn-in documentation receipts shall be submitted as a component of the Removal Report.

3.5 (TASK 5) PERFORM QUALITY CONTROL.

3.5.1 The Contractor shall furnish the necessary personnel and equipment to administer a Quality Control (QC) Program to manage, control, and document Contractor and subcontractor activities IAW DIO OT-005 to the basic contract. The methodology to accomplish this task shall be proposed in the WP. The QC activities shall be documented and included in the Removal Report.

3.5.2 If UXO is located within a grid during the UXO Quality Assurance (QA) search, the grid fails and must be re-swept until it passes government QA.

3.6 (TASK 6) PREPARE AND SUBMIT SITE SPECIFIC REMOVAL REPORT. At the conclusion of all field activities, the Contractor shall submit the Site Specific Removal Report IAW DID OT-030 to the basic contract. In addition, the following information shall be submitted:

3.6.1 All original surveying and mapping data from Task 2.

3.6.2 A daily journal of all activities associated with this SOW.

3.6.3 A recapitulation of exposure data. This shall include total number of man-hours worked on site, total motor vehicle mileage, total number of personnel flying hours, and number of flights.

3.6.4 Scrap turn-in documentation.

3.6.5 A minimum of 20 color photographs of major activities and UXO discoveries.

3.6.6 A financial breakdown by area and by task of all costs and labor hours used to perform this SOW.

3.6.7 A written record of all endangered or threatened plants and animals destroyed during the OE removal activities on-site.

3.7 (Task 7) RANGE 16 OE SUPPORT. The contractor shall provide a Senior UXO Supervisor and six (6) UXO Technicians to clear subsurface anomalies from approximately 1.5 acres within Range 16 in order to evaluate geophysical mapping results from this area. The government will identify the locations of all subsurface anomalies within one (1) meter. The contractor shall verify with a handheld magnetometer that additional anomalies are not remaining within the vicinity of any item removed. After each item is uncovered, the contractor shall leave it in place until authorized by the or\site CEHNC Safety Specialist to move it. All documentation for items found will be requiring disposal will be detonated in place on a daily basis using sandbags to contain fragmentation. The contractor will be limited to an eight (8) hour workday. The contractor may be required to begin at 0600 each day and may be required to work over a weekend to complete a 40-hour work week. All inert ordnance items and metallic debris shall be handled as stated in Task 4 of this statement of work. The reporting information for this task shall be in accordance with paragraphs 3.6.2, 3.6.3, 3.6.4, 3.6.6, and 3.6.7.

4. 0 SCHEDULE OF MEETINGS AND DELIVERABLES.

4.1 Deliverables. The Contractor shall provide the indicated deliverables on the following schedule:

Deliverables	Days after NTP
ASSHP	10 days prior to site visit
Disposal Feasibility Letter, if required (DID) OT-040	5 workdays after site visit
Draft Work Plan, (DID) OT-005	15 workdays after

	approval of Disposal Letter
Final Work Plan	15 workdays after receipt of draft WP comments
Report/Minutes, Record of Meeting DID OT-045	5 days after event
Cost/Schedule Status Report DID OT-035 (NA for Fixed Price Orders)	Monthly
Telephone Conversation/Correspondence Report (DID OT-055)	Monthly
Draft Site Specific Removal Report DID OT-030	30 calendar days after completion of field work
Final Site Specific Removal Report	30 calendar days after receiving review comments
Accident/Incident Report DID OT-015	Written report within 24 hours after the incident occurrence
Property Management Plan DID OT-050	TBD
Accident Exposure Data Report DID SAFT-101	Monthly
OVERALL COMPLETION DATE	TBD

Status Reports and Telephone/Conversation Reports are due monthly. The original of each of these reports shall be sent within 10 days of the end of the reporting period by normal mail to:

Commander
US Army Engineering and Support Center, Huntsville
ATTN: CEHNC-PM (Mr. David Skridulis)
P.O. Box 1600
4820 University Square
Huntsville, Alabama 35616-1822

4.2 Addresses and Distribution. The Contractor shall furnish copies of the plans and reports as indicated to each addressee listed below in the quantities indicated. The Contractor shall use express mail services for delivering these plans and reports. Following each submission, comments generated as a result of their review shall be incorporated. All comments will be sent to the CEHNC Project Manager for consolidation prior to incorporation. All comments should be referenced to support those comments. The following addresses shall be used in mailing submittals:

ADDRESSEE	Draft Submittals	Draft-Final & Final Submittals
Commander US Army Engineering and Support Center Huntsville ATTN: CEHNC-PM (Mr. David Skridulis) 4820 University Square Huntsville AL 35816-1822	6	6
Commander US Army Engineer District, Mobile ATTN: CESAM-EN-GH (Mr. Ellis Pope) 109 St. Joseph St. Mobile AL 36602-3630	2	2
U.S. Environmental Protection Agency Atlanta Federal Center ATTN: Mr. Bart Reedy 100 Alabama St. SW Atlanta GA 30303	2	2
Alabama Department of Environmental Management Government Facilities Section, Haz Waste Branch, Land Division ATTN: Mr. Chris Johnson P.O. Box 301463 Montgomery AL 36130-1463	2	2
US Army Chemical and Military Police Centers & Ft. McClellan Directorate of Environment Bldg. 141A, 13th Ave. ATTN: ATZN-EM Ft. McClellan AL 36205	6	6

5.0 SUBMITTALS and CORRESPONDENCE.

5.1 Format and Content of Engineering Report. All drawings shall be of engineering quality with sufficient details. The report shall consist of 8½" x 11" sheets of paper. The report covers shall consist of durable binders and shall hold pages firmly while allowing easy removal, addition, or replacement of pages. A title shall identify the site, the Contractor, the Huntsville Center, and date. The Contractor's identification shall not dominate the title page.

5.2 Review Comments. The Contractor shall review all comments received through the CEHNC Project Manager and evaluate their appropriateness based upon their merit. The Contractor shall incorporate all applicable comments and provide a written response to each comment no later than 21 days after the Contractor receives the comment.

5.3 Identification of Responsible Personnel. Each submittal shall identify the specific members and title of the subcontractor and Contractor's staff, which had significant input into the report.

5.4 Presentations. The Contractor shall make presentations of work performed and as directed by the CO. The presentation shall consist of a summary of the work accomplished and will be followed by an open discussion.

5.5 Minutes of Meetings. Following the presentation and the public meeting, the Contractor shall prepare and submit minutes of the meeting within 5 working days to the CO.

5.6 Correspondence. The Contractor shall keep a record of phone conversations and written correspondence affecting decisions relating to the performance of this task order (DID OT-055). A summary of the phone conversations and copies of written correspondence shall be submitted to the CO with the Cost/Schedule Status Report.

5.7 Cost/Schedule Status Report. The Contractor shall prepare and submit monthly reports IAW DID OT-035. The report shall be submitted to the CO not later than the 10th day of each calendar month.

5.8 Computer Files. All final text files generated by the Contractor under this task order shall be furnished to the CO in WordPerfect 6.0, IBM PC-compatible format. All drawings shall be on reproducible (Mylar) and digitized 3D-design file in Intergraph Corporation format, compatible with CEHNC Graphics system.

6.0 SAFETY REQUIREMENTS. The Contractor shall develop and implement a Health and Safety Program in compliance with the requirements of OSHA standard 29 CFR 1910.120 (b) (1) through (b) (4) and paragraph 10.2.6, DID OT-005, as required for this effort.

7.0 PUBLIC AFFAIRS. The Contractor shall not publicly disclose any data generated or reviewed under this contract. The Contractor shall refer all requests for information concerning the site condition to the CEHNC Project Manager. Reports and data generated under this task order are

the property of the Department of Defense and distribution to any other sources by the Contractor, unless authorized by the CO, is prohibited.

8.0 REFERENCES.

8.1 "U.S. Army Corps of Engineers Safety and Health Requirements Manual," U.S. Army Engineer Manual EM 385-1-1, September 1996.

8.2 "Safety Concepts and Basic Considerations for Unexploded Ordnance," ETL 385-1-1, Huntsville Center, U.S. Army Corps of Engineers, 16 February 1996.

8.3 "Accident Reporting and Records" with USACE Supplement, AR 385-40, w/chgs

8.4 "Ammunition and Explosive Standards" TM 9-1300-206, w/chgs

8.5 "Safety and Occupational Health Document Requirements for Hazardous, Toxic, and Radioactive Waste (HTRW) and Ordnance and Explosive Waste (OEW) Activities," Engineer Regulations 385-1-92, 18 March 1994.

8.6 "Archives Search Report, Fort McClellan," U.S. Army Corps of Engineers, St. Louis District, April 1997.

8.7 "Occupational Safety and Health Administration Standards," (29 CFR 1910 and 1926/29 CFR 1926.65 Construction Industry Standards).

8.8 "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities," NIOSH/OSHA/USCG/EPA, October 1985.

8.9 "Emergency Eyewash and Shower Equipment," ANZI Z-358.1, 1990.

8.10 "Annual Book of ASTM Standards" Current edition.

8.11 DOD Manual 4160.21.M, Defense Utilization and Disposal Manual.

8.12 "CERCLA Compliance With Other Laws Manual," Parts I and II, USEPA, 1988b.

8.13 AR 200-1, Environmental Protection and Enhancement.

8.14 AR 386-63, Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat.

8.15 Code of Federal Regulations, 40 CFR, Parts 190-299. Latest edition.

8.16 Code of Federal Regulations, [N.D.] "Hazardous Waste Operations and Emergency Response." 29.CFR 1910.120, Final Rule.

8.17 "Compendium of Superfund Field Operations Methods." USEPA, 1987.

8.18 "Ammunition and Explosives Safety Standards," DOD 6055.9-STD, August 1997.

8.19 "General Information on EOD Disposal Procedures," TM 60A-1-1-31, w/chgs

8.20 "The U.S. Army Explosives Safety Program," AR 385-64, Nov 97.

8.21 "Ammunition and Explosives Safety Standards," DA Pam 385-64, Nov 97.

** Additional References may be incorporated and will be finalized at the completion of negotiations.

STATEMENT OF WORK
ORDNANCE AND EXPLOSIVES (OE) SURFACE CLEARANCE
FOR CONSTRUCTION SUPPORT
FORT McClellan
Modified 20 Nov 2000

1.0 OBJECTIVE. The objective of this task order is to perform a surface to near surface clearance of all OE (UXO and inert ordnance) and all metallic debris larger than three (3) inches in any dimension, for a known Ordnance and Explosives (OE) impact area within the proposed Eastern Bypass area at the Fort McClellan Army Depot, Fort McClellan, Alabama. This clearance is an interim action to support preliminary construction activities for the design of the Eastern Bypass. An Engineering Evaluation/Cost Analysis (EE/CA) is currently being conducted for the Proposed Eastern Bypass, which will recommend the final clearance objectives for the proposed land use.

2. 0 BACKGROUND.

2.1 General.

2.1.1 The work required under this Scope of Work (SOW) falls under the Base Realignment and Closure. Ordnance and Explosives (OE) and OE-related scrap contamination is suspected to exist on this property owned by the Department of the Army.

2.1.2 OE is a safety hazard and may constitute an imminent endangerment. Unexploded ordnance (UXO) may be buried on the site or may possibly be on the ground surface. During this removal action, it is the Government's intent that the Contractor destroys, by detonation on-site, all Unexploded Ordnance (UXO) encountered. Chemical Warfare Materiels (CWM) is not suspected to exist within the limits where this work will be performed although CWM was stored at Fort McClellan. However, if any suspect CWM is discovered, the Contractor shall stop work immediately, withdraw upwind from the area, and notify the Fort McClellan Range Control office. The work done under this SOW will be performed in a manner consistent with the comprehensive Environmental Response, Compensation, and Liability Act (CERLA) Section 104, and the National Contingency Plan (NCP) Sections 300.120(d) and 300.400(e).

The applicable provisions of 29 CFR 1910.120 shall apply.

2.1.3 Work Limitations. Due to the inherent risk in this type of operation, the Contractor shall be limited to a 40-hour workweek (either five 8-hour days or four 10-hour days). UXO personnel shall not perform UXO-related tasks more than 10 hours per day.

2.2 Site Description. Fort McClellan is located northeast of the City of Anniston, Calhoun County, Alabama. To the west are the areas known as Weaver and Blue Mountain. To the North is the City of Jacksonville. The Talladega Forest is to the east of the post.

2.3 Site History. Fort McClellan has been used for artillery training of troops and the National Guard as early as 1912 to present day. In 1941, McClellan became site of the Chemical Corps Training Command. In 1962, the U.S. Army Combat Developments Command Chemical Biological-Radiological Agency moved to Fort McClellan. In 1973, the Chemical Corps School along with the U.S. Army Combat Developments Command Chemical Biological-Radiological – Agency closed. In 1979, the U.S. Army Chemical Corps School re-established along with a training Brigade for Basic Training.

2.4 Eastern Bypass. The proposed Eastern Bypass route begins on the western boundary of the installation in the vicinity of Summerall Gate and heads due east approximately one (1) mile then turns due south for approximately 3.5 miles to the southern boundary. The proposed bypass route passes through an OE impact area in the vicinity of Iron Mountain. The portion of the impact area, which is within the proposed easements for the Eastern Bypass, consists of approximately 182 acres. The impact area consists of several ranges that were active at various times prior to 1967. Types of OE fired at these ranges as identified from ground reconnaissance and the Archive Search Report consist of 60mm HE mortars, 2.36 rockets, and small arms. Density of ordnance in this impact area is considered medium to high. Additional areas within the proposed bypass which will require a surface to near surface clearance includes approximately 103 acres located north and northwest of the known impact area extending to Summerall Gate. The contractor shall also clear the area along the north-west portion of the bypass easement that extends east to Iron Mountain Road. This area is approximately 15 acres in size. Items found in this area include practice 60mm rounds, expended 2.36 rockets, and rifle grenades. Density of ordnance in this area is considered low. Magnetic rock is also predominant in these areas. Approximately 10 acres of this may require heavy brush clearing (Kudzu).

2.5 Recent OE-Related Activities. In July of 1997, CEHNC performed field reconnaissance to develop a cost analysis for clearance of ordnance from the proposed bypass route. Zapata Engineering is currently performing an EE/CA for the proposed Eastern Bypass, which will recommend final clearance objectives for contaminated areas based on the proposed land use.

3.0 DESCRIPTION OF SERVICES.

3.1 (TASK 1) Perform Site visit And Prepare Work Plan {WP).

3.1.1 Perform Site Visit. Prior to preparation of the WP, a site visit, not to exceed four days including travel time, is authorized. The site visit team shall not exceed three persons and shall include a senior UXO Supervisor who shall be assigned to the OE response effort when possible. The Contractor shall notify the CEHNC Project Manager (Mr. David Skridulis) of the proposed

dates for the site visit at least ten calendar days prior to the visit. The site visit shall include coordination with the appropriate agencies to include local medical facilities, local airfield, etc. The Contractor shall prepare an Abbreviated Site Safety and Health Plan (ASSHP) prior to the site visit. This plan shall be submitted to the CEHNC Project Manager, for approval at least ten (10) days prior to conduct of the site visit.

3.1.2 Disposal Alternatives. Data Item Description {DID) OT-O4, specifies when this is required. If on-site disposal in not possible, then a Disposal Feasibility Report Letter is required.

3.1.3 Prepare Work Plan. The WP shall be prepared IAW DID OT-005 to the basic contract. All UXO operations shall comply with CEHNC Safety Concepts and Basic Considerations for UXO dated 16 February 1996. The following subplans are not required: Air Monitoring Plan, Sampling and Analysis Plan, and Chemical Data Acquisition Plan (CDAP).

3.1.3.1 The Contractor shall submit a draft WP for review and a final WP for approval IAW paragraph 4.1 of this SOW.

3.2 (TASK 2) LOCATION SURVEYS AND MAPPING.

3.2.1 Surveying. The Contractor shall perform all location surveys and mapping required to establish boundaries of areas specified in Paragraph 2.0 of this SOW, and as directed in DID OT-020. Grid corners shall be established using precision surveying methods. Each corner of each grid area shall be located by establishing the appropriate state plane grid system to the closest one-foot, and shall be both tabulated and shown on maps of the site. Other coordinate systems and accuracy specifications are not acceptable and shall not be used. Individual locations of recovered UXO and inert ordnance items only shall be tape measured or the " x" and " y" distance estimated to obtain a horizontal accuracy of plus or minus one foot from the established grid corners. The Contractor shall mark and survey the corners of the designated grids with stakes or other visible temporary markers. The location of ordnance scrap, ordnance fragments, shrapnel, small arms ammunition and metallic debris shall be recorded only on a per-grid basis and not located by coordinates.

3.2.2 Items and data to be submitted to the Contracting Officer as part of the tasks are as follows:

3.2.2.1 A tabulated list of the respective grid corners for all grids being cleared in the areas described in Section 2.0 of this SOW.

3.2.2.2 An electronic and hard copy of all drawing files and reference files used for and developed as part of this removal action. These files shall meet the following requirements:

3.2.2.2.1 Each sheet shall also have a standard border, revision block, title block, complete index sheet layout, bar scale, legend, metric grid lines, grid tick layout, a magnetic north, a grid north, and a true north arrow, and be plotted at a horizontal scale of 1:2, 400 (1"=200') minimum.

3.2.2.2.2 The Government shall be provided with a copy of the design files on 8 mm 5.0 or 10.0 gigabyte magnetic tapes, 3½" HD floppy disks or approved CD ROM format. CD-ROMs are preferred. The data to be submitted shall contain the final, corrected version of the design file. The tapes or disks shall be labeled, showing the project name, project number, date, company name, address and telephone number and the number of files.

3.3 (TASK 3) UNEXPLOOED ORDNANCE REMOVAL. This task shall be accomplished IAW the Technical Management Plan identified in DID OT-o0S to the basic contract.

3.3.1 The Contractor shall furnish all necessary personnel and equipment to perform a surface to one foot clearance of all UXO and inert ordnance. All metallic debris larger than three (3) inches in any dimension located on the surface shall also be removed. Removal of organic material such as leaves or decaying wood to expose anomalies may be required. Soil excavation will be required when an item/UXO is partially exposed at the ground surface to permit identification of the item/UXO.

3.3.2 A planned, systematic approach shall be utilized to search and clear the project site that shall result in optimum search effectiveness. The proposed methodology shall be outlined in the WP.

.

3.3.3 Only CEHNC-approved UXO personnel shall perform UXO procedures IAW DID OT-025 to the basic contract.

3.3.4 The Contractor shall maintain a detailed accounting of all UXO items/components encountered on the project site. This accounting shall include the amounts of UXO, identification, condition, depth located, disposition, location/mapping, and exposure data. This accounting shall be a part of the Removal Report.

3.3.5 The contractor shall be required to remove subsurface anomalies that could potentially be UXO to a depth of 1.0 foot below ground surface. To ensure this, an instrument capable of detecting a MK II fragmentation hand grenade at one (l) foot shall be used. The chosen detection equipment shall be field tested daily to ensure that it is operating properly. This shall be accomplished by creating a calibration area of approximately 10 feet by 10 feet. Inert ordnance or equivalent test source(s) that simulate the hand grenade shall be buried to a depth of one (1) foot below ground surface within the test grid. All anomalies shall be removed prior to planting inert ordnance or equivalent test source(s) .If the detection equipment does not meet the standard during the daily check, it shall be calibrated, repaired, or replaced.

3.3.6 Unless approved by the USACE Safety Specialist, all recovered UXO shall be disposed of daily.

3.3.7 The Contractor shall plan to provide demolition materials for disposal of OE items and storage facilities for demolition materials. This shall be outlined in the WP in the Explosives Management Plan (DID OT-OO5) to the basic contract.

3.3.8 All access/excavation/detonation holes shall be back filled to grade.

3.3.9 ETL 385-1-1, Safety Concepts and Basic Considerations for UXO Operations will be used in planning OXO operations in the Technical Management Plan.

3.3.10 TM 60A-1-1-31, General Information for EOD Disposal Procedures will be used when planning for demolition operations used when disposing of UXO and UXO-related items.

3.3.11 The provisions of EM 385-1-1, Safety and Health Requirements Manual, will be used when planning UXO operations.

3.3.12 The provisions of DID OT-O2S, Personnel/Work Standards, to the basic contract will be used when planning operations for the Technical Management Plan.

3.4 (TASK 4) TURN IN OF INERT ORDNANCE AND METALLIC DEBRIS. The Contractor shall furnish all necessary personnel and equipment to turn in all recovered inert ordnance items and metallic debris over 3 inches in any dimension. The methodology to accomplish this task shall be proposed in the WP.

3.4.1 Inert ordnance items shall be vented IAW DOD 4160.21-M-1, Defense Demilitarization Manual.

3.4.2 If a local DRMO is unavailable or if one is available, but is unwilling to accept scrap, the Contractor shall utilize locally available resources for disposal of scrap. The Contractor shall complete a DD Form 1348-1 as turn-in documentation. Instructions for completion of this

form are contained in the Defense Utilization and Disposal Manual, DoD 4160.21-M. The Senior UXO Supervisor shall sign a certificate as follows:

"I certify that the property listed hereon has been inspected by me and, to the best of my knowledge and belief, contains no items of a dangerous nature."

3.4.3 Turn-in documentation receipts shall be submitted as a component of the Removal Report.

3.5 (TASK 5) PERFORM QUALITY CONTROL.

3.5.1 The Contractor shall furnish the necessary personnel and equipment to administer a Quality Control (QC) Program to manage, control, and document Contractor and subcontractor activities IAW DIO OT-OO5 to the basic contract. The methodology to accomplish this task shall be proposed in the WP. The QC activities shall be documented and included in the Removal Report.

3.5.2 If UXO is located within a grid during the OXO Quality Assurance (QA) search, the grid fails and must be re-swept until it passes government QA.

3.6 (TASK 6) PREPARE AND SUBMIT SITE SPECIFIC REMOVAL REPORT. At the conclusion of all field activities, the Contractor shall submit the Site Specific Removal Report IAW DID OT-O30 to the basic contract. In addition, the following information shall be submitted:

3.6.1 All original surveying and mapping data from Task 2.

3.6.2 A daily journal of all activities associated with this SOW.

3.6.3 A recapitulation of exposure data. This shall include total number of man-hours worked on site, total motor vehicle mileage, total number of personnel flying hours, and number of flights.

3.6.4 Scrap turn-in documentation.

3.6.5 A minimum of 20 color photographs of major activities and UXO discoveries.

3.6.6 A financial breakdown by area and by task of all costs and labor hours used to perform this SOW.

3.6.7 A written record of all endangered or threatened plants and animals destroyed during the OE removal activities on-site.

3.7 (Task 7) RANGE 16 OE SUPPORT. The contractor shall provide a Senior UXO Supervisor and six (6) UXO Technicians to clear subsurface anomalies from approximately 1.5 acres within Range 16 in order to evaluate geophysical mapping results from this area. The government will identify the locations of all subsurface anomalies within one (1) meter. The contractor shall verify with a handheld magnetometer that additional anomalies are not remaining

within the vicinity of any item removed. After each item is uncovered, the contractor shall leave it in place until authorized by the or\site CEHNC Safety Specialist to move it. All documentation for items found will be requiring disposal will be detonated in place On a daily basis using sandbags to contain fragmentation. The contractor will be limited to an eight (8) hour workday. The contractor may be required to begin at 0600 each day and may be required to work over a weekend to complete a 40-hour work week. All inert ordnance items and metallic debris shall be handled as stated in Task 4 of this statement of work. The reporting information for this task shall be in accordance with paragraphs 3.6.2, 3.6.3, 3.6.4, 3.6.6, and 3.6.7.

4. 0 SCHEDULE OF MEETINGS AND DELIVERABLES.

4.1 Deliverables. The Contractor shall provide the indicated deliverables on the following schedule:

Deliverables	**Days after NTP**
ASSHP	10 days prior to site visit
Disposal Feasibility Letter, if required (DID) OT-040	5 workdays after site visit
Draft Work Plan, (DID) OT-005	15 workdays after approval of Disposal Letter
Final Work Plan	15 workdays after receipt of draft WP comments
Report/Minutes, Record of Meeting DID OT-045	5 days after event
Cost/Schedule Status Report DID OT-035 (NA for Fixed Price Orders)	Monthly
Telephone Conversation/Correspondence Report (DID OT-055)	Monthly
Draft Site Specific Removal Report DID OT-030	30 calendar days after completion of field work
Final Site Specific Removal Report	30 calendar days after receiving review comments
Accident/Incident Report DID OT-015	Written report within 24 hours after the incident occurrence
Property Management Plan DID OT-050	TBD
Accident Exposure Data Report DID SAFT-101	Monthly

OVERALL COMPLETION DATE	TBD

Status Reports and Telephone/Conversation Reports are due monthly. The original of each of these reports shall be sent within 10 days of the end of the reporting period by normal mail to:

Commander
US Army Engineering and Support Center,
Huntsville
ATTN: CEHNC-PM (Mr. David Skridulis)
P.O. Box 1600
4820 University Square
Huntsville, Alabama 35616-1822

4.2 Addresses and Distribution. The Contractor shall furnish copies of the plans and reports as indicated to each addressee listed below in the quantities indicated. The Contractor shall use express mail services for delivering these plans and reports. Following each submission, comments generated as a result of their review shall be incorporated. All comments will be sent to the CEHNC Project Manager for consolidation prior to incorporation. All comments should be referenced to support those comments. The following addresses shall be used in mailing submittals:

ADDRESSEE	**Draft Submittals**	**Draft-Final & Final Submittals**
Commander US Army Engineering and Support Center Huntsville ATTN: CEHNC-PM (Mr. David Skridulis) 4820 University Square Huntsville AL 35816-1822	6	6
Commander US Army Engineer District, Mobile ATTN: CESAM-EN-GH (Mr. Ellis Pope) 109 St. Joseph St. Mobile AL 36602-3630	2	2
U.S. Environmental Protection Agency Atlanta Federal Center ATTN: Mr. Bart Reedy 100 Alabama St. SW Atlanta GA 30303	2	2
Alabama Department of Environmental Management Government Facilities Section, Haz Waste Branch, Land Division ATTN: Mr. Chris Johnson P.O. Box 301463 Montgomery AL 36130-1463	2	2

US Army Chemical and Military Police Centers & Ft. McClellan Directorate of Environment Bldg. 141A, 13th Ave. ATTN: ATZN-EM Ft. McClellan AL 36205	6	6

5.0 SUBMITTALS and CORRESPONDENCE.

5.1 Format and Content of Engineering Report. All drawings shall be of engineering quality with sufficient details. The report shall consist of 8½" x 11" sheets of paper. The report covers shall consist of durable binders and shall hold pages firmly while allowing easy removal, addition, or replacement of pages. A title shall identify the site, the Contractor, the Huntsville Center, and date. The Contractor's identification shall not dominate the title page.

5.2 Review Comments. The Contractor shall review all comments received through the CEHNC Project Manager and evaluate their appropriateness based upon their merit. The Contractor shall incorporate all applicable comments and provide a written response to each comment no later than 21 days after the Contractor receives the comment.

5.3 Identification of Responsible Personnel. Each submittal shall identify the specific members and title of the subcontractor and Contractor's staff, which had significant input into the report.

5.4 Presentations. The Contractor shall make presentations of work performed and as directed by the CO. The presentation shall consist of a summary of the work accomplished and will be followed by an open discussion.

5.5 Minutes of Meetings. Following the presentation and the public meeting, the Contractor shall prepare and submit minutes of the meeting within 5 working days to the CO.

5.6 Correspondence. The Contractor shall keep a record of phone conversations and written correspondence affecting decisions relating to the performance of this task order (DID OT-OS5). A summary of the phone conversations and copies of written correspondence shall be submitted to the CO with the Cost/Schedule Status Report.

5.7 Cost/Schedule Status Report. The Contractor sha11 prepare and submit monthly reports IAW DID OT-035. The report shall be submitted to the CO not later than the 10th day of each calendar month.

5.8 Computer Files. All final text files generated by the Contractor under this task order shall be furnished to the CO in WordPerfect 6.0, IBM PC-compatible format. All drawings shall be on

reproducible (Mylar) and digitized 3D-design file in Intergraph Corporation format, compatible with CEHNC Graphics system.

6.0 SAFETY REQUIREMENTS. The Contractor shall develop and implement a Health and Safety Program in compliance with the requirements of OSHA standard 29 CFR 1910.120 (b) (1) through (b) (4) and paragraph 10.2.6, DID OT-005, as required for this effort.

7.0 Public Affairs. The Contractor shall not publicly disclose any data generated or reviewed under this contract. The Contractor shall refer all requests for information concerning the site condition to the CEHNC Project Manager. Reports and data generated under this task order are the property of the Department of Defense and distribution to any other sources by the Contractor, unless authorized by the CO, is prohibited.

8.0 REFERENCES.

8.1 "U.S. Army Corps of Engineers Safety and Health Requirements Manual," U.S. Army Engineer Manual EM 385-1-1, September 1996.

8.2 "Safety Concepts and Basic Considerations for Unexploded Ordnance," ETL 385-1-1, Huntsville Center, U.S. Army Corps of Engineers, 16 February 1996.

8.3 "Accident Reporting and Records" with USACE Supplement, AR 385-40, w/chgs

8.4 "Ammunition and Explosive Standards" TM 9-1300-206, w/chgs

8.5 "Safety and Occupational Health Document Requirements for Hazardous, Toxic, and Radioactive Waste (HTRW) and Ordnance and Explosive Waste (OEW) Activities," Engineer Regulations 385-1-92, 18 March 1994.

8.6 "Archives Search Report, Fort McClellan," U.S. Army Corps of Engineers, St. Louis District, April 1997.

8.7 "Occupational Safety and Health Administration Standards," (29 CFR 1910 and 1926/29 CFR 1926.65 Construction Industry Standards).

8.8 "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities," NIOSH/OSHA/USCG/EPA, October 1985.

8.9 "Emergency Eyewash and Shower Equipment," ANZI Z-358.1, 1990.

8.10 "Annual Book of ASTM Standards" Current edition.

8.11 DOD Manual 4160.21.M, Defense Utilization and Disposal Manual.

8.12 "CERCLA Compliance With Other Laws Manual," Parts I and II, USEPA, 1988b.

8.13 AR 200-1, Environmental Protection and Enhancement.

8.14 AR 386-63, Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat.

8.15 Code of Federal Regulations, 40 CFR, Parts 190-299. Latest edition.

8.16 Code of Federal Regulations, [N.D.] "Hazardous Waste Operations and Emergency Response." 29.CFR 1910.120, Final Rule.

8.17 "Compendium of Superfund Field Operations Methods." USEPA, 1987.

8.18 "Ammunition and Explosives Safety Standards," DOD 6055.9-STD, August 1997.

8.19 "General Information on EOD Disposal Procedures," TM 60A-1-1-31, w/chgs

8.20 "The U.S. Army Explosives Safety Program," AR 385-64, Nov 97.

8.21 "Ammunition and Explosives Safety Standards," DA Pam 385-64, Nov 97.

** Additional References may be incorporated and will be finalized at the completion of negotiations.

STATEMENT OF WORK

ORDNANCE AND EXPLOSIVES (OE) SURFACE CLEARANCE

FOR CONSTRUCTION SUPPORT

FORT McClellan

29 January 1999

1.0 OBJECTIVE. The objective of this task order is to perform a surface clearance of all OE (UXO and inert ordnance) and all metallic debris larger than three (3) inches in any dimension, for a known Ordnance and Explosives (OE) impact area within the proposed Eastern Bypass area at the Fort McClellan Army Depot, Fort McClellan, Alabama. This clearance is an interim action to support preliminary construction activities for the design of the Eastern Bypass. An Engineering Evaluation/Cost Analysis (EE/CA) is currently being conducted for the Proposed Eastern Bypass, which will recommend the final clearance objectives for the proposed land use.

2 .0 BACKGROUND.

2.1 General.

2.1.1 The work required under this Scope of Work (SOW) falls under the Base Realignment and Closure. Ordnance and Explosives (OE) and OE-related scrap contamination is suspected to exist on this property owned by the Department of the Army.

2.1.2 OE is a safety hazard and may constitute an imminent endangerment. Unexploded ordnance (UXO) may be buried on the site or may possibly be on the ground surface. During this removal action, it is the Government's intent that the Contractor destroys, by detonation on-site, all Unexploded Ordnance (UXO) encountered. Chemical Warfare Materiels (CWM) is not suspected to exist within the limits where this work will be performed although CWM was stored at Fort McClellan. However, if any suspect CWM is discovered, the Contractor shall stop work immediately, withdraw upwind from the area, and notify the Fort McClellan Range Control office. The work done under this SOW will be performed in a manner consistent with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 104, and the

National Contingency Plan (NCP) Sections 300.120(c) and 300.400(e). No Federal, State or Local permits should be required for any access or remedial action taken on this site for the activities within this statement of work. The applicable provisions of 29 CFR 1910.120 shall apply.

2.1.3 Work Limitations. Due to the inherent risk in this type of operation, the Contractor shall be limited to a 40-hour workweek (either five 8-hour days or four 10-hour days). UXO personnel shall not perform UXO-related tasks more than 10 hours per day.

2.2 Site Description. Fort McClellan is located northeast of the City of Anniston, Calhoun County, Alabama. To the west are the areas known as Weaver and Blue Mountain. To the North is the City of Jacksonville. The Talladega Forest is to the east of the post.

2.3 Site History. Fort McClellan has been used for artillery training of troops and the National Guard as early as 1912 to present day. In 1941, McClellan became site of the Chemical Corps Training Command. In 1962, the U.S. Army Combat Developments Command Chemical Biological-Radiological Agency moved to Fort McClellan. In 1973, the Chemical Corps School along with the U.S. Army Combat Developments Command Chemical Biological-Radiological Agency closed. In 1979, the U.S. Army Chemical Corps School re-established along with a training Brigade for Basic Training.

2.4 Eastern Bypass. The proposed Eastern Bypass route begins on the western boundary of the installation in the vicinity of Summerall Gate and heads due east approximately one (1) mile then turns due south for approximately 3.5 miles to the southern boundary. The proposed bypass route passes through an OE impact area in the vicinity of Iron Mountain. The portion of the impact area, which is within the proposed easements for the Eastern Bypass, consists of approximately 70 acres. The impact area consists of several ranges that were active at various times prior to 1967. Types of OE fired at these ranges as identified from ground reconnaissance and the Archive Search Report consist of 60mm HE mortars, 2.36 rockets, and small arms. Density of ordnance in this impact area is considered medium to high. At this time no evidence of OE other than small arms has been found in other areas of the proposed bypass.

2.5 Recent OE-Related Activities. In July of 1997, CEHNC performed field reconnaissance to develop a cost analysis for clearance of ordnance from the proposed bypass route. Zapata

Engineering is currently performing an EE/CA for the proposed Eastern Bypass, which will recommend final clearance objectives for contaminated areas based on the proposed land use.

3.0 DESCRIPTION OF SERVICES.

3.1 (TASK 1) Perform Site visit And Prepare Work Plan (WP).

3.1.1 Perform Site Visit. Prior to preparation of the WP, a site visit, not to exceed four days including travel time, is authorized. The site visit team shall not exceed three persons and shall include a senior UXO Supervisor who shall be assigned to the OE response effort when possible. The Contractor shall notify the CEHNC Project Manager (Mr. David Skridulis) of the proposed dates for the site visit at least ten calendar days prior to the visit. The site visit shall include coordination with the appropriate agencies to include local medical facilities, local airfield, etc. The Contractor shall prepare an Abbreviated Site Safety and Health Plan (ASSHP) prior to the site visit. This plan shall be submitted to the CEHNC Project Manager, for approval at least ten (10) days prior to conduct of the site visit.

3.1.2 Disposal Alternatives. Data Item Description (DID) OT-040, specifies when this is required. If on-site disposal in not possible, then a Disposal Feasibility Report Letter is required.

3.1.3 Prepare Work Plan. The WP shall be prepared IAW DID OT-OOS to the basic contract. All UXO operations shall comply with CEHNC Safety Concepts and Basic Considerations for UXO dated 16 February 1996. The following subplans are not required: Air Monitoring Plan, Sampling and Analysis Plan, and Chemical Data Acquisition Plan (CDAP).

3.1.3.1 The Contractor shall submit a draft WP for review and a final WP for approval IAW paragraph 4.1 of this SOW.

3.2 (TASK 2) LOCATION SURVEYS AND MAPPING.

3.2.1 Surveying. The Contractor shall perform all location surveys and mapping required to establish boundaries of areas specified in Paragraph 2.0 of this SOW, and as directed in DID OT-020. Grid corners shall be established using precision surveying methods. Each corner of each grid area shall be located by establishing

the appropriate state plane grid system to the closest one-foot, and shall be both tabulated and shown on maps of the site. Other coordinate systems and accuracy specifications are not acceptable and shall not be used. Individual locations of recovered UXOs only shall be tape measured or the "x" and "y" distance estimated to obtain a horizontal accuracy of plus or minus one foot from the established grid corners. The Contractor shall mark and survey the corners of the designated grids with stakes or other visible temporary markers. The location of ordnance scrap, ordnance fragments, shrapnel, small arms ammunition and metallic debris shall be recorded only on a per-grid basis and not located by coordinates.

3.2.2 Items and data to be submitted to the Contracting Officer as part of the tasks are as follows:

3.2.2.1 A tabulated list of the respective grid corners for all grids being cleared in the areas described in Section 2.0 of this sow.

3.2.2.2 An electronic and hard copy of all drawing files and reference files used for and developed as part of this removal action. These files shall meet the following requirements:

3.2.2.2.1 Each sheet shall also have a standard border, revision block, title block, complete index sheet layout, bar scale, legend, metric grid lines, grid tick layout, a magnetic north, a grid north, and a true north arrow, and be plotted at a horizontal scale of 1:2,400 (1"=200') minimum.

3.2.2.2.2 The Government shall be provided with a copy of the design files on 8 mm 5.0 or 10.0 gigabyte magnetic tapes, 3 1/2" HD floppy disks or approved CD ROM format. CD-ROMs are preferred. The data to be submitted shall contain the final, corrected version of the design file. The tapes or disks shall be labeled, showing the project name, project number, date, company name, address and telephone number and the number of files.

3.3 (TASK 3) UNEXPLODED ORDNANCE REMOVAL. This task shall be accomplished IAW the Technical Management Plan identified in DID OT-005 to the basic contract.

3.3.1 The Contractor shall furnish all necessary personnel and equipment to perform a surface clearance of all UXO. All metallic debris larger than three (3) inches in any dimension located on the surface shall also be removed. Removal of organic material such as leaves or decaying wood to expose anomalies may be required. Soil excavation will be required when an item/UXO is partially exposed at the ground surface to permit identification of the item/UXO.

3.3.2 A planned, systematic approach shall be utilized to search and clear the project site that shall result in optimum search effectiveness. The proposed methodology shall be outlined in the WP.

3.3.3 Only CEHNC-approved UXO personnel shall perform UXO procedures IAW D~D OT-025 to the basic contract.

3.3.4 The Contractor shall maintain a detailed accounting of all UXO items/components encountered on the project site. This accounting shall include the amounts of UXO, identification, condition, depth located, disposition, location/mapping, and exposure data. This accounting shall be a part of the Removal Report.

3.3.5 While this SOW is for surface clearance only, it is anticipated the Contractor shall utilize instruments to assist during the surface clearance to "look" below the accumulation of dead leaves and debris to the ground surface. To ensure this, an instrument capable of detecting a MK II fragmentation hand grenade at one (1) foot shall be used. The chosen detection equipment shall be field tested daily to ensure that it is operating properly. This shall be accomplished by creating a calibration area of approximately 10 feet by 10 feet. Inert ordnance or equivalent test source(s) that simulate the hand grenade shall be buried to Q depth of one (1) foot below ground surface within the test grid. All anomalies shall be removed prior to planting inert ordnance or equivalent test source(s). If the detection equipment does not meet.the standard during the daily check, it shall be calibrated, repaired, or replaced.

3.3.6 Unless approved by the USACE Safety Specialist, all recovered UXO shall be disposed of daily.

3.3.7 The Contractor shall plan to provide demolition materials for disposal of OE items and storage facilities for demolition materials. This shall be outlined in the WP in the-Explosives Management Plan (DID OT-005) to the basic contract.

3.3.8 All access/excavation/detonation holes shall be back filled to grade.

3.3.9 ETL 385-1-1, Safety Concepts and Basic Considerations for UXO Operations will be used in planning UXO operations in the Technical Management Plan.

3.3.10 TM 6OA-1-1-31r General Information for EOD Disposal Procedures will be used when planning for demolition operations used when disposing of UXO and UXO-related items.

3.3.11 The provisions of EM 385-1-1, Safety and Health Requirements Manual, will be used when planning UXO operations.

3.3.12 The provisions of DID OT-025, Personnel/Work Standards, to the basic contract will be used when planning operations for the Technical Management Plan.

3.4 (TASK 4) TURN IN OF INERT ORDNANCE AND METALLIC DEBRIS. The Contractor shall furnish all necessary personnel and equipment to turn in all recovered inert ordnance items and metallic debris over 3 inches in any dimension. The methodology to accomplish this task shall be proposed in the WP.

3.4.1 Inert ordnance items shall be vented IAW DOD 4160.2l-M-l, Defense Demilitarization Manual.

3.4.2 If a local DRMO is unavailable or if one is available, but is unwilling to accept scrap, the Contractor shall utilize locally available resources for disposal of scrap. The Contractor shall complete a DD Form 1348-1 as turn-in documentation. Instructions for completion of this form are contained in the Defense Utilization and Disposal Manual, DoD 4160.21-M. The Senior UXO Supervisor shall sign a certificate as follows:

> "I certify that the property listed hereon has been inspected by me and, to the best of my knowledge and belief, contains no items of a dangerous nature."

3 .4. 3 Turn-in documentation receipts shall be submitted as a component of the Removal Report.

3.5 (TASK 5) PERFORM QUALITY CONTROL.

3.5.1 The Contractor shall furnish the necessary personnel and equipment to administer a Quality Control (QC) Program to manage, control, and document Contractor and

subcontractor activities IAW DID OT-OO5 to the basic contract. The methodology to accomplish this task shall be proposed in the WP. The QC activities shall be documented and included in the Removal Report.

3.5.2 If UXO is located within a grid during the UXO Quality Assurance {QA) search, the grid fails and must be re-swept until it passes government QA.

3.6 (TASK 6) PREPARE AND SUBMIT SITE SPECIFIC REMOVAL REPORT. At the conclusion of all field activities, the Contractor shall submit the Site Specific Removal Report IAW DID OT-030 to the basic contract. In addition, the following information shall be submitted:

3.6.1 All original surveying and mapping data from Task 2.

3.6.2 A daily journal of all activities associated with this SOW.

3.6.3 A recapitulation of exposure data. This shall include total number of man-hours worked on site, total motor vehicle mileage, total number of personnel flying hours, and number of flights.

3.6.4 Scrap turn-in documentation. –

3.6.5 A minimum of 20 color photographs of major activities and UXO discoveries.

3.6.6 A financial breakdown by area and by task of all costs and labor hours used to perform this SOW.

3.6.7 A written record of all endangered or threatened plants and animals destroyed during the OE removal activities on-site

4. 0 SCHEDULE OF MEETINGS AND DELIVERABLES.

4.1 Deliverables. The Contractor shall provide the indicated deliverables on the following schedule:

Deliverables	**Days after NTP**
ASSHP	10 days prior to site visit
Disposal Feasibility Letter, if required (DID) OT-040	5 workdays after site visit
Draft Work Plan, (DID) OT-005	15 workdays after approval of Disposal Letter
Final Work Plan	15 workdays after receipt of draft WP

	comments
Report/Minutes, Record of Meeting DID OT-045	5 days after event
Cost/Schedule Status Report DID OT-035 (NA for Fixed Price Orders)	Monthly
Telephone Conversation/Correspondence Report (DID OT-055)	Monthly
Draft Site Specific Removal Report DID OT-030	30 calendar days after completion of field work
Final Site Specific Removal Report	30 calendars after receiving review comments
Accident/Incident Report DID OT-015	Written report within 24 hours after the incident occurrence
Property Management Plan DID OT-050	TBD
Accident Exposure Data Report DID SAFT-101	Monthly
OVERALL COMPLETION DATE	TBD

Status Reports and Telephone/Conversation Reports are due monthly. The original of each of these reports shall be sent within 10 days of the end of the reporting period by normal mail to:

Commander
US Army Engineering and Support Center,
Huntsville
ATTN: CEHNC-PM (Mr. David Skridulis)
P.O. Box 1600
4820 University Square
Huntsville, Alabama 35816-1822

4.2 Addresses and Distribution. The Contractor shall furnish copies of the plans and reports as indicated to each addressee listed below in the quantities indicated. The Contractor shall use express mail services for delivering these plans and reports. Following each submission, comments generated as a result of their review shall be incorporated. All comments will be sent to the CEHNC Project Manager for consolidation prior to incorporation. All comments should be referenced to support those comments. The following addresses shall be used in mailing submittals:

ADDRESSEE	Draft Submittals	Draft-Final & Final Submittals
Commander US Army Engineering and Support Center, Huntsville ATTN: CEHNC-PM (Mr. David Skridulis) 4820 University Square Huntsville AL 35816-1822	6	6
Commander US Army Engineer District, Mobile ATTN: CESAM-EN-GH (Mr. Ellis Pope) 109 St. Joseph St. Mobile AL 36602-3630	2	2
U.S. Environmental Protection Agency Atlanta Federal Center ATTN: Mr. Bart Reedy 100 Alabama St., SW Atlanta GA 30303	2	2
Alabama Department of Environmental Management Government Facilities Section, Haz Waste Branch, Land Division ATTN: Mr. Chris Johnson P.O. Box 310463 Montgomery AL 36130-1463	2	2
US Army Chemical and Military Police Centers & Fort McClellan Directorate of Environment Bldg. 141A, 13th Ave ATTN: ATZN-EM Fort McClellan AL 36205	6	6

5.0 SUBMITTALS AND CORRESPONDENCE.

5.1 Format and Content of Engineering Report. All drawings shall be of engineering quality with sufficient details. The report shall consist of 81/2" X 11" sheets of paper. The report covers shall consist of durable binders and shall hold pages firmly while allowing easy removal, addition, or replacement of pages. A title shall identify the site, the Contractor, the Huntsville Center, and date. The Contractor's identification shall not dominate the title page.

5.2 Review Comments. The Contractor shall review all comments received through the CEHNC Project Manager and evaluate their appropriateness based upon their merit. The

Contractor shall incorporate all applicable comments and provide a written response to each comment no later than 21 days after the Contractor receives the comment.

5.3 Identification of Responsible Personnel. Each submittal shall identify the specific members and title of the subcontractor and Contractor's staff, which had significant input into the report.

5.4 Presentations. The Contractor shall make presentations of work performed and as directed by the CO. The presentation shall consist of a summary of the work accomplished and will be followed by an open discussion.

5.5 Minutes of Meetings. Following the presentation and the public meeting, the Contractor shall prepare and submit minutes of the meeting within 5 working days to the CO.

5.6 Correspondence. The Contractor shall keep a record of phone conversations and written correspondence affecting decisions relating to the performance of this task order (DID OT-055). A summary of the phone conversations and copies of written correspondence shall be submitted to the CO with the Cost/Schedule Status Report.

5.7 Cost/Schedule Status Report. The Contractor shall prepare and submit monthly reports IAW DID OT-O35. The report shall be submitted to the CO not later than the 10th day of each calendar month.

5.8 Computer Files. All final text files generated by the Contractor under this task order shall be furnished to the CO in WordPerfect 6.0, IBM PC-compatible format. All drawings shall be on reproducible (Mylar) and digitized 3D-design file in Intergraph Corporation format, compatible with CEHNC Graphics system.

6. 0 SAFETY REQUIREMENTS. The Contractor shall develop and implement a Health and Safety Program in compliance with the requirements of OSHA standard 29 CFR 1910.120 (b) (1) through (b) (4) and paragraph 10.2.6, DID OT-005, as required for this effort.

7.0 Public Affairs. The Contractor shall not publicly disclose any data generated or reviewed under this contract. The Contractor shall refer all requests for information concerning the site condition to the CEHNC Project Manager. Reports and data generated under this task order are

the property of the Department of Defense and distribution to any other sources by the Contractor, unless authorized by the CO, is prohibited.

8.0 REFERENCES.

8.1 "U.S. Army Corps of Engineers Safety and Health Requirements Manual", U.S. Army Engineer Manual EM 385-1-1, September 1996.

8.2 "Safety Concepts and Basic Considerations for Unexploded Ordnance", ETL 385-1-1, Huntsville Center, U.S. Army Corps of Engineers, 16 February 1996.

8.3 "Accident Reporting and Records" with USACE Supplement, AR 385-40, w/chgs

8.4 "Ammunition and Explosive Standards", TM 9-1300- 1 (206, w/chgs

8.5 "Safety and Occupational Health Document Requirements for Hazardous, Toxic, and Radioactive Waste (HTRW) and Ordnance and Explosive Waste (OEW) Activities", Engineer Regulations 385-1-92, 18 March 1994.

.8.6 "Archives Search Report, Fort McClellan", U. S. Army Corps of Engineers, St. Louis District, April 1997.

8.7 "Occupational Safety and Health Administration Standards", (29 CFR 1910 and 1926/29 CFR 1926.65 Construction Industry Standards).

8.8 "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities", NIOSH/OSHA./USCG/EPA, October 1985.

8.9 "Emergency Eyewash and Shower Equipment", ANZI Z-358.1, 1990.

8.10 "Annual Book of ASTM Standards", Current edition.

8.11 DOD Manual 4160.21.M, Defense Utilization and Disposal Manual.

8.12 "CERCLA Compliance With Other Laws Manual" , Parts I and II, USEPA, 1988b.

8.13 AR 200-1, Environmental Protection and Enhancement.

8.14 AR 386-63, Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat.

8.15 Code of Federal Regulations, 40 CFR, Parts 190-299. Latest edition.

8.16 Code of Federal Regulations, [N.D.] "Hazardous Waste Operations and Emergency Response." 29 CFR 1910.120, Final Rule.

8.17 "Compendium of Superfund Field Operations Methods", USEPA, 1987.

8.18 "Ammunition and Explosives Safety Standards", DOD 1" 6055.9-STD, August 1997.

8.19 "General Information on EOD Disposal Procedures", TM 60A-1-1-31, w/chgs

.8.20 "The U. S .Army Explosives Safety Program", AR 385-64, Nov 97.

8.21 "Ammunition and Explosives Safety Standards", DA Pam 385-64, Nov 97.

** Additional References may be incorporated-and will be finalized at the completion of negotiations.