
Change Log

- Version 1.43
 - 1.3.1.1 added general climate conditions language per YTC
 - 1.4.1.1.c.1.added sentence regarding telecommunications drawings per NEC
 - 1.4.1.1.c.1.b added revision numbers and dates per NEC
 - 3.1 Updated per DPW Geospatial Office
 - 4.1.1 text edits, link edits, added codes
 - 4.2.1 added optional text to clarify base contract specification section updates
 - 5.2.1.1 Updated text and added instructions to PMs for projects without CAD drawings per DPW Geospatial Office
 - 6.2.4 cleaned up language
 - 6.7 added historic buildings language
 - 6.9.1 Waste Diversion Targets Update per Policy
 - 6.10.1 & 6.10.2 soil testing process change
 - 6.10.3 Updated link to Borrow Source Pit SOP – 5/16/2022
 - 8.2, 8.3, 4.4, & 8.8 updated instruction to PMs
 - 8.2.4 removed duplicate paragraph
 - 8.8 updates related to privatization of water and sewer utilities
 - 8.8.4.1 Added advanced metering requirements paragraphs
 - 10.1 changes for YTC
 - 10.3 iWatch & 10.4.2 TARP # changes for YTC
 - 10.4.1 Updated OPSEC List: added Controlled Unclassified Information (CUI) and Personally Identifiable Information (PII)
 - 10.4.1 Removed, “on cloud storage or publicly available site”. - 5/16/2022
 - 10.4.4 Removed OPSEC SOP/Plan Paragraph
 - Emails and distribution lists updated from mail.mil to army.mil
- Version 1.42
 - throughout – updated email addresses
 - throughout – capitalized “contractor” and “government”
 - throughout – changed “Contractor will” to “Contractor shall”
 - throughout – updated dead website links: 4.1.1 (e), 6.2.4 (a), 6.4.2
 - grammar and formatting updates: Heading 9, Heading 10, 1.2.1, 1.4.1.1(a), 2.2.2, 2.4.1, 2.4.3, 3.2.1, 4.1.1 (o), 4.2.1, 5.2.2, 6.4.1, 6.5.2, 6.6.1, 6.7.2.4, 6.8.3.8, 6.8.3.9, 6.8.3.10, 10.1, 10.4.3,
 - 1.4.1.1. c (1) revised design deliverables requirements
 - 4.1.1 removed duplicate UFC 1-200-02 and added PWE-020 ODC standards
 - 6.1.4, 6.2.4 (b) Changed “then” to “the Contractor shall”
 - 6.3.1 split paragraph into two paragraphs, added language to include site map showing drainage paths, and replaced “any necessary corrections or additions” with “comments”
 - 6.5.2 highlighted last sentence in grey

- 6.8.4 removed sub-paragraph numbering
- 6.10.1 soil testing process change
- 6.12 added Air Quality section
- 8.2 changed “Contractor Personnel” to “Contractor Management Personnel”
- 8.8 privatization of water and sewer utilities
- 8.12.3 added Contractor-owned or leased trailers paragraph
- 10.3, 10.4.2 removed Fusion Center

Version 1.41

- 6.3 Added additional instructions for supplemental instructions
- 6.3.1 Updated reference spec and email address
- 6.4.2, 6.6.1, 6.6.2 Updated email address and submittal instructions
- 8.2 Reordered the sub paragraphs so the first choice is requirements from the base contract.
- 10.2 AIE badge processed changed

• Version 1.40

- 6.5.2 and 6.5.3 replaced to provide new training location for EMS
- 6.4, 6.7, 6.8.5, 6.8.6, 8.2 paragraph numbering corrected
- Added a code reference to UFC 3-420-01 and IPC

• Version 1.39

- 1.4.1.1. c. (1) para updated to provide additional details on drawing requirements.
- 4.1.1
 - added NFPA 70 to NEC entry
 - added a link for UFC 1-200-01
 - removed a reference to the USACE Energy and Water Conservation Design Guide (no longer available) and replaced with UFC 1-200-02
- 6.3.1 rewritten to better address MS4 requirements and instr added for this area.
- 6.4 rewritten to identify specific testing requirements for water discharge
- 6.5.2 minor edit about web page
- 6.7 paragraph numbering mistake corrected
- 6.10.1/2 added and corrected email addresses
- 8.9.4. added a new paragraph NOI for NPDES
- 8.11.1 instructions added for disposition of O&M manuals

• Version 1.38 (31 Oct 19)

- 4.1.1 added JBLM Master Plan, which includes Architectural Appearance Standards
- 6.5.3 updated link
- 6.91 and 6.92 replaced with new language and links for C&D reporting

• Version 1.37 (20 Mar 19 update)

- 6.5 moved the title of an env paragraph to the correct location
- 6.5.2 updated link for env policy

• Version 1.36 (Mar 19 update)

- 6.1.4 Updated Reference

- 6.2.4 Updated references and adjusted description of work impacted
- 10.2 additional information was added for the required roster to obtain a long term pass for JBLM.
- 10.3 Updated link for iwatch
- Version 1.35 (28 Dec 18 update)
 - 1.2.1 Umbrella was placed in brackets to allow it to be removed for standalone contract actions.
 - 2.4.1 additional explanation added for LDs
 - 3.3 as-built information consolidated in paragraph 5.2
 - 6.3.1 Complete paragraph changed out to address change in UFGS for env specs
 - 6.4.3 Removed several redundant words
 - 6.5.1 Complete paragraph changed out – EMS area
 - 6.5.2 and 6.5.3 web link corrected
 - 6.6.1 and 6.6.2 complete paragraphs changed out – hazardous waste area
 - 7.0 added instructions to indicate if military escorts are required
 - 8.2 language about two different ICFs for different staff sizes removed – no longer used in contracts
 - 8.2, 8.3, and 8.4 have had additional explanation added to prompt PMs to identify requirements.
 - 8.8.3 and subordinate paragraphs rewritten to accommodate utility privatization
 - 10.2 significant rewrite due to ending of RAPIDGate program and standing up AIE ID card program.
 - 10.2.1 Added real ID paragraph
 - 10.4.1 grammar improvement
 - 10.5 web link corrected
- Version 1.34 (29 Dec 17 update)
 - 1.4.1.1 Added in design specific optional language to be used when incidental design is required.
 - 2.5 Removed P6 scheduling language
 - 5.1.3 QCS changed to RMS 3.0
 - 6.1.2 and 6.2.2 Added highlighting
 - 6.2.3 added ASTM reference
 - 6.2.4 clarified that it applied to painted surfaces and added highlighting
 - 6.10.1 changed testing of soil products to required for materials being deposited to the borrow pits.
 - 10.4.3 removed nonfunctioning hyperlink
 - 10.4.4 added highlighting
- Version 1.33 (12 Dec 17 update)
 - 3.1 Added reference to Geospatial Services Office having reference drawings to assist in preparation of asbuilts.
 - 3.3 Added requirements for GIS and asbuilt format

- 4.1.1 c and d Corrected web site addresses
- 5.2.1.1 Added requirement for as-built drawings
- 6.1 and 6.2 Replaced all wording for both asbestos and lead paint
- 6.3.2 Replaced all wording for water discharge
- 6.4.1 – removed closed web sites and corrected another hyperlink
- 8.9.1.1 Added fire protection to list of systems that require outage coordination
- 8.9.4 added para heading for Cross Connections, Hydrants, Water System demolition.
- 10.4.2 – removed the reference to 10.3, which caused many people to miss the need to change this reference when they delete a portion of the SOW.
- Version 1.32 (17 Nov 2016 update)
 - Removed language in 3.2.1 – “provided to aid in conceptual guidance”
- Version 1.31 (19 Feb 2016 update)
 - Made updates to 6.3.1, 6.6.2, and replaced 6.91, 6.92, 6.10.1, and 6.10.2 with new language after review of template by ED.
- Version 1.30 (12 Feb 16 update)
 - Changed term “new work” to “construction” to be consistent with DA Pam 420-11.
- Version 1.29 (Feb 16 update)
 - Removed all sub CLINs – due to using GFEBs these are no longer appropriate
 - 1.4 and sub lines – removed obsolete terms K and L; New work (construction) and Repair terms left in place.
 - 2.5 was reserved for USACE PMs to added P6 language
 - 3.2.1 changed wording for dwg to attached from Appendix A
 - 4.2 added a note of explanation about specifications for PMs
 - 5.13 added for USACE PMs to invoke requirement for QCS
 - Added 6.53 – environmental awareness training resource
 - 6.6.2 – added information on how to find the HJB Form 953
 - 6.10.1 – deleted “not” to correct the language
 - 8.2 – added drop down choice sentence for Standard or Minimal Construction Management Team for ICF contracts.
 - 9 Added explanatory note about types of GFM that ED can provide – soil, concrete, etc.
 - 8.6.1 added the word environmental
 - 8.13.4 Changed contracting officer to COR.
 - 10.4.3 added an additional training hyperlink (alternative class)
 - 10.5 corrected e-verify hyperlink
- Version 1.28 (Feb 23, 2015) Updated multiple environmental entries of the SOW.
 - 4.1.1 Added new references
 - 6.1.5 Added sentence for assume ACM material
 - 6.4 Edited instructions to PM to ensure that JBLM specific language is viewed as required, not optional.
 - 6.4.1 and 6.4.3 Added new links and text

- 6.8 Updated sale of saleable timber instructions – now a subset under log decking requirements.
 - 6.10 Added disposal of excess soil and clear and grub residue instructions
 - 6.32 Added new paragraph for MS4 Storm Water Permit
- Version 1.27 (Aug 21, 2014) made changes to OPSEC paragraphs 10.4.1 and 10.4.2
 - Changed SAEDA to TARP, adjusted the bulletized list and corrected a grammar mistake
- Version 1.26 (Aug 5, 2014) link for EM 385-1 updated.
- Version 1.25 (Jul 17, 2014) requirement to provide “product data sheets”- this will equip the QAs in the inspecting the use of hazardous materials by following the manufacturers recommendations.
 - Added the words product data sheets to para 6.6.1
- Version 1.24 (Jul 08, 2014) corrected training link for OPSEC
 - Replaced www training link in para 10.1
- Version 1.23 (April 17, 2014) error corrected in OPSEC.
 - Corrected instructions for 10.4.4
- Version 1.22 (April 14, 2014)
 - Updated OPSEC and AT requirements para 10 and added requirement for close out submittal for destruction of documents.
- Version 1.21 (March 13, 2014)
 - Added paragraph 6.10 Construction and Demolition (C&D) Waste Planning and Reporting
- Version 1.20 (March 6, 2014)
 - added paragraph 10 to include OPSEC and Anti-Terrorism requirements.
- Version 1.19 (June 13, 2013)
 - Updated paragraph 6.5.2 to incorporate changed EMS site links.
- Version 1.18 (March 19, 2013)
 - Added the following to paragraph 4.1.1:
 - UFC 1-200-02: High Performance and Sustainable Building Requirements
 - [UFC 1-201-01 Non-Permanent DOD Facilities in Support of Military Operations]
- Version 1.17 (February 11, 2013)
 - Added paragraph 6.8 addressing “Salable Timber Requirements.” Optional language.
 - Added paragraph 6.9 addressing “Oregon White Oak replacement.” Optional language.
 - Updated links to EM 385-1 in paragraph 4 and 8.10.
- Version 1.16 (December 27, 2012)
 - Added item j to paragraph 4.1.1, requiring that contractors comply with “PWE-707, Standard Operating Procedure for Construction and Demolition (C&D) Waste Planning and Reporting (Available through government Project Manager)”.
 - Updated Sustainable Acquisition and Hazardous material paragraphs based on new DPW guidance.
- Version 1.15 (June 25, 2012)
 - Deleted redundant code reference paragraph 4.2 and updated the brackets.

- Made Yakima Training Center language in paragraph 6.5.2.
- Removed unnecessary brackets in paragraph 6.6.2
- Updated paragraph 6.4 to reflect change in terminology (“Green Procurement” vs. “Sustainable Acquisition”)
- Version 1.14 (May 2, 2012)
 - Updated link for JLBM Design Standards in paragraphs 4.1.1, 6.3.1, and 6.4.1.

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TEMPLATE INSTRUCTIONS

Highlighted Region Color Codes and Other Areas Requiring Action:

Instructions. Delete once understood.

Change text to accommodate project specific information.

Text MAY need to be changed. Read for clarity.

[Text that is bracketed and highlighted denotes that there are multiple options, contained within the brackets, which may be selected. Unused bracketed information should be deleted, while the selected information should be edited as necessary.]

[Text that is bracketed and highlighted denotes optional language and may be deleted or edited as necessary.]

Areas with red text indicates a field requiring update.

Once initial draft is complete, leave highlighting in place for contracting review.

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SECTION 01 11 00

STATEMENT OF WORK

Version 1.43
Issued February 16, 2022

CONSTRUCTION

Select SOW Status.

Date: Click here to enter a date.

Revised: Click here to enter a date for modification to task order.

1. GENERAL DISCUSSION

1.1. Project Identification

1.1.1. Project Title: Insert project name here

1.1.2. IJO Number(s): May include multiple numbers

1.1.3. Project Package Number(s): Const Pkg No

1.2. Description of Work

For the description of work, some adjustment may need to be made, depending on whether the project is a task order or stand-alone project. Additional items for consideration are things such as existing facility drawings and product manuals. Note that the end result of the project MUST result in a complete and useable facility/system/product.

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“REMOVE CONTENT CONTROL.”

1.2.1. The Contractor shall supply all supervision, labor, equipment, and materials to perform all work in strict accordance with the [umbrella] contract specifications, this Statement of Work, and identified drawings to provide a *Insert Facility/System/Product Name/Type/Description Here*.

1.3. Area Description

1.3.1. Location

1.3.1.1. (WHERE) Insert description of location here, to include post (i.e. Joint Base Lewis-McChord (JBLM), Yakima, Manchester, etc.), building number, city (not required for JBLM), and state. Coordinates may also be used for a more precise location, especially if no building number is available. Include the general climate conditions, high & low temperatures, humidity, rain & snow, prevailing wind, wind gusts, etc.

1.3.2. Known Existing Site Conditions

1.3.2.1. (WHAT) Provide a brief description of the site’s physical conditions, to include trees, possible sub-grade concerns, known hazardous material, historical facility or district requirements, environmental concerns, etc that may impact the project.

1.4. Principal Items To Be Accomplished

For projects requiring incidental design, the CLINs should be structured as follows:

CLIN 0001 – Incidental Design

CLIN 0002 – Repair Items Delivered Based on Incidental Design

CLIN 0003 – Construction Items Delivered Based On Incidental Design

CLIN 0004 – Repair Items Not Based on Incidental Design

CLIN 0005 – Construction Items Not Based On Incidental Design

Note that each construction (AKA - new work) and repair work need to be on separate CLINs

If incidental design is not required, remove the item “Base Incidental Design Deliverable and CLIN 0001 becomes Repair Items)”

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For all projects:

Every real facility property must have its own CLIN to separate and track costs.

The PM should identify what items that fall under Sustainable Acquisition section in this scope.

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1.4.1. **Base Design Deliverable (Covered under one IJO XXX#####J)**

1.4.1.1. Base Item CLIN 0001. Execute project incidental design activities.

a. **[Design requirement described here]**

b. [The drawings and all other submittal items for this incidental design shall be prepared using English units of measurement utilizing record drawings, field investigations, and other pertinent data to show existing conditions, demolition, and the new work required.]

c. It is the understanding of both the Government and the Contractor that the first Incidental Design submittal will actually be the “pre-final” (100% complete) submittal. The Contractor shall allot the government 15 calendar days to review the submittal and then hold an “over-the-shoulder” design review meeting with the Government. The Contractor shall incorporate comments from the design review into the drawing set and submit the “corrected final” drawings (Government Back Check) as the construction documents.

(1) Each design submittal shall include 2 Hard Copy Sets and 1 CD-ROM containing all drawings, analysis and reports.

(a) All drawing and sketches shall be developed per the requirements identified in the JBLM Design Standards/Geospatial Requirements. Section 1: General Geospatial requirements, section 2: N/A for this project, Section 3: CAD requirements, and section 4: GIS

requirements. Telecommunications design drawings will be separate from electrical drawings.

(b) Drawings, sketches shall be submitted in hard copy, Autodesk DWG file format and Adobe (PDF). Original drawings and details shall be of adequate size, and be clear and sharp, so that the use of half size reproduction will result in legible and easy to read copies. Each drawing sheet shall be annotated with the following project identifiers: Contract number, Task Order number, DPW IJO number(s), project package number, and revision number with corresponding dates.

(c) GIS data and survey data shall be provided in georeferenced shapefiles or Autodesk Civil 3D georeferenced DWG file format. Each sheet in DWG format shall be annotated with the following project identifiers: Contract number, Task Order number, DPW IJO number(s), and project package number.

(2) Following review of all submittals and approval, make all changes and corrections required and resubmit the corrected originals within the submittal schedule found in Section 2: Performance and Scheduling.

(a) The performance periods and submission schedules for each phase of design are indicated below. The Contactor shall furnish sufficient technical, supervisory, and administrative personnel to ensure the prosecution of the work in accordance with the submittal schedule. Days as mentioned shall be calendar days. Time for reproduction and mailing is included in the stated durations. The Contractor may choose to perform work, at its own risk, during the Government review and comment resolution period. However, comments resulting from that review must be incorporated into the design prior to the next submittal. In the event a subsequent design phase is not authorized, the Contractor shall incorporate all available review comments into the design to complete the current phase. It is anticipated that the incidental design phase of this project will take **one hundred and five (105) calendar days** to arrive at an approved final design.]

<u>Incidental Design Submittal Schedule</u>	
<u>Action</u>	<u>Schedule</u>
100% Pre-final Design Submittal	60 calendar days after Notice to Proceed is Issued.
100% Pre-final Design Review Period	15 calendar days from receipt of Pre-final Design Submittal.
100% Pre-final Design Review Meeting	Within 5 calendar days after the Design Review Period
Corrected Final (Government Back Check)	15 calendar days after official transmittal of Final Design Review comments.
Correct Final Review	10 calendar days
Total:	105 estimated calendar days

1.4.2. Base Construction Deliverable (Covered under one IJO XXX#####J)

For bid-build contracts, base items must result in a complete and usable product. In some cases, to accomplish this, both construction and repair items of work may be included in the base.

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1.4.2.1. Base Item CLIN 0002. Item Description. Repair.

1.4.2.2. Base Item CLIN 0003. Item Description. Construction.

a. [Detailed description of work specifically excluded from this deliverable.

(1) Detailed excluded item.]

1.4.3. [Optional Construction Deliverables (Covered under one IJO XXX#####J)

1.4.3.1. Option Item CLIN 0004. Item Description. Repair.

1.4.3.2. Option Item CLIN 0005. Item Description. Construction.

a. Detailed description of work specifically excluded from this deliverable.

(1) Detailed excluded item.]

2. PERFORMANCE AND SCHEDULING

2.1. Performance Period Requirements

2.1.1. The Contractor is required to commence work under this Task Order within Choose an item or enter duration manually. days after the date of issuance of the Notice to Proceed (NTP) for the Base Item(s), prosecute the work diligently, and complete all work on all Base Item(s) no later than Enter number of days here. calendar days after the date of issuance of the Notice to Proceed for the Base Item(s). The time stated for completion includes final cleanup of the premises and submission of all required close-out documentation.

2.1.2. For complex scheduling requirements, a table may be necessary for clarity. As a reminder, some complex scheduling activities will require modifications to the Liquidated Damages section, located in paragraph 2.4. If not required, delete this section.

2.2. Award of Options

2.2.1. Award of Option Item(s): The Government may award any of the Option Item(s), or none at all, but any Option Item(s) will be awarded not later than Choose a duration or enter manually. days after the date of issuance of the Notice to Proceed for the Base Item(s). The Government may award Option Items on different dates during this time period.

2.2.2. Duration of Option Items: For any Option Items awarded prior to the issuance of Notice to Proceed for the Base Item(s), the total duration of this Choose an item. stated in Subparagraph 2.1.1, above,

including Base and Option Items [shall not be extended, and all Option Items awarded during that time period shall be completed within the time stated in Subparagraph 2.1.1, above][shall be changed to xxxx (xxx) calendar days from the date of issuance of Notice to Proceed for the Base Item(s)]. If any Option Items are awarded after the date of issuance of Notice to Proceed for the Base Item(s), the time for completion of [those Option Items][all Base and Option Item(s) under this Task Order/Contract] shall be Choose a duration or enter manually. days after the issuance of Notice to Proceed for [the Base Item(s)][those Option Item(s)].

2.3. Construction Phasing Requirements

2.3.1. Discuss various scheduling and phasing needs in this section. Examples would be site availability based on unit movement, working hours of facility occupants, phasing needs, must-complete-by dates, or project requirements to fully vacate the building or facility. Additional concerns may include activities affected by seasonal/weather changes, such as operations of the wastewater treatment plant. If unused, delete this paragraph and replace with the word "Reserved."

2.4. Liquidated Damages

2.4.1. [If the Contractor fails to complete the work within the time period specified above, liquidated damages in the amount of Enter operational LD cost, per impact calculation which account for actual government costs incurred if the task order / contract is not completed on time. per calendar day of delay will be assessed, in addition to the amount of Enter administrative LD costs, in accordance with base contract. stated in the base Contract, for a total of Combine administrative and operation LD costs.]

2.4.2. [Liquidated damages will be assessed in accordance with the 00 73 00, Special Contract Requirements.]

2.4.3. [Liquidated damages shall be in accordance with the Base Contract.]

3. DRAWINGS

3.1. [There are no drawings available for this project.] Base-line floor plan files (DWG) and reference drawings files (file formats will vary: DWG, PDF, or TIF) are available from DPW Geospatial Office (GSO) for the development of projects Final Record drawings. The level of detail on drawings available from GSO will vary. Any reference drawings modified to show as-constructed conditions shall black out all previous projects identification references (i.e. project title, project number, contract number, Engineers Stamp, etc). Each Final Record drawing sheet shall be annotated with this projects identifiers

3.2. Contract Drawings

3.2.1. The drawings outlined below are attached.

Drawing Number	Sheet Number	Title	Revision Number	Date

3.2.2. Dimensions and utility locations are approximate and must be verified in the field.]

4. SPECIFICATIONS AND CODES

4.1. Codes

4.1.1. The Contractor shall comply with [the most recent edition, at time of solicitation, of] all pertinent Local, State, and Federal building and life/health/safety codes, including but not limited to the following:

- a. Applicable Unified Facilities Criteria (UFC)
- b. UFC 1-200-01: General Building Requirements <http://www.wbdg.org/ffc/dod/unified-facilities-criteria-ufc/ufc-1-200-01>
- c. UFC 3-420-01: Plumbing Systems and International Plumbing Code
- d. [UFC 1-200-02: High Performance and Sustainable Building Requirements] <https://www.wbdg.org/ffc/dod/unified-facilities-criteria-ufc/ufc-1-200-02>
- e. ASA IE&E SDD policy <https://www.wbdg.org/ffc/army-coe/policies-and-guidance-army-design-and-construction/army-sdd-policy-update>
- f. [UFC 1-201-01 Non-Permanent DOD Facilities in Support of Military Operations]
- g. EM 385-1-1
(<http://www.publications.usace.army.mil/USACEPublications/EngineerManuals.aspx>)
- h. National Electrical Code, NFPA 70
- i. National Fire Protection Association (NFPA) Codes
- j. Telecommunication Industry Association/Electrical Industry Association Wiring Standards (Building Telecommunication Wiring Standards)
- k. Army Installation Information Infrastructure Architecture Policy (I3A)
- l. JBLM Design Standard specifications (<http://www.lewis-mcchord.army.mil/designstandards/>)
- m. JBLM Master Plan, which includes Architectural Appearance Standards
- n. PWE-707, Standard Operating Procedure for Construction and Demolition (C&D) Waste Planning and Reporting (available through government Project Manager [PM])
- o. National Pollutant Discharge Elimination System (NPDES) small Municipal Separate Storm Sewer Systems (MS4) Permit No. WAS-026638. Use guidance documents found at https://home.army.mil/lewis-mcchord/index.php/my-Joint-Base-Lewis-Mcchord/all-services/public_works-environmental_division/stormwater
- p. PWE-020 Ozone Depleting Chemical (ODC) and Non-Exempt Substitute Management Plan
- q. Washington Administrative Code (WAC) 173-340 Model Toxics Control Act-Cleanup
- r. National Electric Safety Code IEEE C2
- s. NFPA 101 Life Safety Code

4.2. [Specifications]

In the absence of specifications in the base contract individual specification sections should be provided

to the support the statement of work.

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4.2.1. The Contractor shall comply with all relevant specification sections as set forth in the Base Contract[.] [, with the exception of the following updated specification sections which are included in this Task Order and which replace the specifications of the same name/number in the Base Contract:]

Section No.	Specification Section Name

4.2.2. In addition to the UFGS Specification Sections provided in the previous paragraph, the below list of Technical Specification Sections shall be included in the specifications for construction. An omission from this list does not relieve the Contractor from adhering to the specifications for that feature of work necessary to meet manufacturer's certification and all applicable building codes.

Section No.	Specification Section Name

1

5. SUBMITTALS

5.1. Project Submittal Requirements

5.1.1. All submittals shall be submitted in accordance with the specification section titled SUBMITTAL PROCEDURES. Required submittals are identified in their applicable specification sections.

5.1.2. In addition to the requirements as outlined in the specification section titled SUBMITTAL PROCEDURES, an electronic copy of each submittal shall be provided to the Government. Delivery method shall be decided during the CQC coordination meeting.

5.1.3. For USACE PM managed contracts include RMS 3.0 language if necessary technical specification. YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING “REMOVE CONTENT CONTROL.” [Contractor shall employ RMS 3.0 in the execution of the task order.]

5.1.4. For TO-type contracts, select the submittal register language. Otherwise, delete this paragraph.

5.2. Close-out Submittal Requirements

5.2.1.1 The Contractor shall provide project Final Record drawings meeting the CAD/GIS requirements in the current version (FY21) of JBLM DPW Geospatial Requirements

a. All exterior work under this project shall be geospatially referenced using one of the following methods.

- (1) Shown on Final Record drawings with Washington State Plane South coordinates referenced
- (2) Shown on Final Record drawings with reference dimension from existing known reference points within 1000 feet of the project site
- (3) Or provided in georeferenced GIS format (i.e. ESRI File Geodatabase, Shapefiles)

b. Each Final Record drawing set shall have a cover page with the following project information:

- Project Title
- All Project IJO number(s)
- Project Package number = Projects Drawing File number
- Contract number and associated Task Order number
- Labeled "FINAL RECORD" with project's completion date (BOD)
- Table of Contents listing all drawing sheets associated with this project

c. Each Final Record drawing sheet shall be annotated with the following:

- Project Title
- Primary Project IJO number
- Project Package number = Projects Drawing File number
- Contract number and associated Task Order number
- Labeled "FINAL RECORD" with project's completion date (BOD)

The above text for as-built drawings is appropriate for projects that have AutoCAD drawings provided or are available for contractor use. If they are not, the PM should determine the level of effort required for providing as-built information. For example, for the paving IDIQ, typically the PM would require the contractor to provide markups to the pdf sketches provided as part of the task order award.

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5.2.2. The Contractor shall provide a Letter of non-retention for all contract documents, plans, drawings, and specifications after the destruction of all copies that are not required to satisfy legal requirements.

6. ENVIRONMENTAL AND CULTURAL RESOURCES

6.1. Asbestos Containing Material

Language for Asbestos Containing Material and lead paint is required, the only deletions allowed are the areas in brackets.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING "REMOVE CONTENT CONTROL."

- 6.1.1. Existing suspect materials involved with all disturbance work are assumed to be Asbestos-Containing Material (ACM). It is the Contractor's responsibility to either test for, or to assume the suspect material is ACM, and that it is abated /encapsulated in accordance with AHERA, Federal, and Local regulations. No Asbestos Hazard Emergency Response Act (AHERA) inspection is required when the suspect materials are assumed to be ACM. The Government reserves the right to accept assumptions of ACM-positive, or to require such AHERA surveys to be performed.
- 6.1.2. [Available AHERA survey data is attached at Enclosure XX. The Contractor shall determine the adequacy of the existing survey documentation and include additional AHERA inspections in the proposal when required to accurately delineate asbestos disturbance work.][Reserved]
- 6.1.3. When performed, inspections shall be accomplished in accordance with the Asbestos Hazard Emergency Response Act (AHERA), Federal and Local regulations. A Certified AHERA Asbestos Building Inspector shall perform all inspections. The inspection documentation shall comply with AHERA, Federal and Local regulations and shall include assessment of each Asbestos-Containing Material (ACM), its location, quantity, type, friability and percentage of asbestos.
- 6.1.4. If the tested material is positive for asbestos, or assumed to be ACM and must be disturbed during project execution, Contractor shall have a certified Asbestos Contractor perform all asbestos disturbance work necessary to complete the project in accordance with 29 CFR 1926.1101, WAC 296-62-077, 296-65, and PSCAA Regulation 3.4. A certified abatement plan and all other applicable requirements of 'UFGS **02 82 00 Asbestos Remediation**' are also required to be submitted and accepted before work is started. [If this effort is believed to constitute differing site condition(s), the Contractor shall submit an RFI identifying the situation.]

The above sentence addressing differing site condition is used in any task order where disturbing and/or working with asbestos was not called out in the SOW or included in the proposal.

Reviewers should pay particular attention to task orders that do not choose this option.
YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING "REMOVE CONTENT CONTROL."

6.2. Lead-Containing Paint

- 6.2.1. Existing suspect painted surface materials involved in disturbance work will be considered to contain detectable lead paint. It is the Contractor's responsibility to either test for, or to assume the suspect material is either Lead Based Paint (LBP) or Lead Containing Paint (LCP), and that it is abated/encapsulated in accordance with OSHA, HUD, Federal and Local regulations. The Government reserves the right to accept assumptions of LCP/LBP-positive, or to require such LCP/LBP surveys to be performed.
- 6.2.2. [Available lead paint survey is attached at Enclosure XX. The Contractor shall determine the adequacy of the existing survey documentation and include additional lead paint inspections in the proposal when required to accurately delineate lead disturbance work.][Reserved]
- 6.2.3. When performed, testing shall be accomplished in accordance with OSHA and/or HUD guidelines. A Certified Lead Paint Inspector shall perform lead paint inspections. The inspection documentation shall comply with Federal and Local regulations and shall include identification of all lead paint, its location, quantity, percentage by weight, and TCLP characteristics IAW ASTM E1908-16, "Standard Guide for Sample Selection of Debris Waste from a Building Renovation or

Lead Abatement Project for Toxicity Characteristic Leaching Procedure (TCLP) Testing for Leachable Lead (Pb)”

6.2.4. If suspect material tests positive for lead, or assumed to be lead containing, any disturbance of the material shall be in accordance with:

- a. Federal level: 29 CFR 1926.62: https://www.govregs.com/regulations/expand/title29_chapterXVII-i3_part1926_subpartD_section1926.62
- b. Washington WISHA-DOSH: WAC 296-62-07521:
<http://app.leg.wa.gov/WAC/default.aspx?cite=296-62-07521>

A Contractor work plan is required to be submitted and accepted before work is started, in accordance with applicable sections of ‘UFGS **02 83 00 Lead in Remediation**’. [If this effort is believed to constitute differing site condition(s), the Contractor shall submit and RFI identifying the situation.]

The above sentence addressing differing site condition is used in any task order where disturbing lead paint was not called out in the SOW or included in the proposal.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING “REMOVE CONTENT CONTROL.”

6.3. Environmental Coordination

Instructions for Para 6.3.1: Language for “Environmental Coordination” is JBLM specific. For other locations, some editing may be required. If the current task order’s pricing is locked to a specific set of specifications that are in the umbrella contract (like a JOC or the current paving SATOC) you can continue to use 01 57 20.00 10 Environmental Protection in all other cases you should to use the replacement specification 01 57 19 Temporary Environmental Controls. For contracts with specifications written after June 2020, also include the section 01 57 19.01 20 Supplemental Temporary Environmental Controls.

Instructions for Para 6.3.2: For projects disturbing 5,000 sq. ft. or more, a Stormwater Drainage Plan must be submitted to the Environmental Division for review and approval. If government designed provide with SOW for project review and consult with ED Stormwater while developing scope. For AE designed projects at 35% design provide proposed BMPs and a Final Stormwater Drainage Plan with the 65%. In the case of an incidental design that addresses disturbance of the surface as defined above, a Stormwater Drainage Plan must be submitted to the Environmental Division for review and approval prior to construction. An approved Drainage Plan is required before SWPPP approval can occur. Drainage Plans must include all required components from the JBLM Stormwater Management for Development and Redevelopment pamphlet including highlighted flow charts and the Drainage Plan Checklist (Appendix B).

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING “REMOVE CONTENT CONTROL.”

- 6.3.1. The Contractor shall comply with all Joint Base Lewis-McChord (JBLM) environmental requirements, including the most current installation regulation 200-1 (Environmental Protection and Enhancement) and Design Standards specification section [01 57 20.00 10 Environmental Protection] [01 57 19 Temporary Environmental Controls] [and] [01 57 19.01 20 Supplemental Temporary Environmental Controls]. This includes the submission of an Environmental Protection Plan (EPP) prior to commencement, as detailed in section [01 57 20.00 10] [01 57 19]. The JBLM Environmental Division will review the submittals EPP and provide comments to the Contracting Officer or their representative. Regulation 200-1 and specification section[s] [01 57 20.00 10] [01 57 19] [and] [01 57 19.01 20] are available at the JBLM Design Standards website (<http://www.lewis-mcchord.army.mil/designstandards/>). The Stormwater office can be contacted at: usarmy.jblm.id-readiness.list.dpw-stormwater@army.mil
- 6.3.2. The EPP shall include, but not be limited to, a site map identifying ground disturbing activities, drainage paths to existing stormwater conveyance infrastructure, proposed source control Best Management Practices (BMPs), and all other proposed temporary and permanent stormwater BMPs. For projects disturbing 5,000 sq. ft. or more, the Contractor shall submit a Stormwater Pollution Prevention Plan (SWPPP) in addition to the EPP. The SWPPP shall be prepared in accordance with PWE-633 Construction Site Stormwater Runoff Control Program and the 2012 SWMMWW and shall detail sediment and erosion control best management practices (BMPs). See section 8.9.4. for required permits.
- 6.3.3. In accordance with JBLM Reg. 200-3, no construction process water or wastewater shall be discharged to the ground or stormwater conveyance system. Construction discharge must meet requirements of the NPDES Construction General Permit (CGP) for Discharges from Construction Activities and guidance documents under the MS4 Permit. In accordance with JBLM Reg. 200-2, any wastewater generated must be collected, processed, characterized, and disposed of into the JBLM sanitary sewer system or other authorized disposal method. Prior to disposal, waste water characterization must at a minimum include pH, Oil and Grease, BOD, and TSS analysis by a NELAC accredited laboratory. Additional analyses may be required if non-conventional wastes or hazardous materials are potential contaminants. Results shall be submitted for review and approval by Public Works. On site characterization by JBLM Pretreatment staff may waive analytical requirements at the discretion of the Pretreatment program manager. JBLM sanitary sewer discharge requires a Sanitary Sewer Discharge Permit issued by DPW Waste Water Treatment Plant. The Environmental Protection Plan for the project must identify any potential wastewater generation and the process of proper disposal.

Language for “Green Procurement” is JBLM specific, but can be modified to meet general Federal requirements, as necessary for non JBLM procurement actions.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING “REMOVE CONTENT CONTROL.”

- 6.4. Sustainable Acquisition In order to comply with federally mandated sustainable acquisition requirements and Department of Defense (DOD) and Department of the Army (DA) Green Procurement Program (GPP) policies, Joint Base Lewis-McChord (JBLM) requires the purchase, supply, and use of environmentally preferable products and services. Program elements include: recovered material products, energy and water efficient products, alternative fuels and fuel efficiency, bio-based products, non-ozone depleting substances, and environmentally preferable products. For a

listing of designated items, associated requirements and managing program websites, see <https://sftool.gov/greenprocurement>.

- 6.4.1. Additionally, the *JBLM Guide to Sustainable Acquisition for Construction* is available in the “Reference Manuals” section of the JBLM Design Standards webpage (<http://www.lewis-mcchord.army.mil/designstandards/index1.htm>).
- 6.4.2. The Contractor shall comply with all applicable Federal, DOD, Army, and JBLM sustainable acquisition laws and policies. If compliant products are unavailable or determined to be impracticable based on cost or performance, the Contractor shall contact the Contracting Officer or their representative for further guidance. Claims of exception must meet applicable legal criteria and be justified in writing through the submission of a completed HJB Form 225 (Sustainable Acquisition Exception). The form is available at <https://www.lewis-mcchord.army.mil/designstandards/DocumentRepositoryForDSLlinks/HJB%20225.pdf>. Additional information is available from the JBLM Sustainable Acquisition Program at (253) 966-6466 or usarmy.jblm.id-readiness.list.dpw-green-procurement1@army.mil.

6.5. Environmental Management System

Language for “Environmental Management System” is JBLM specific. For other locations, some editing may be required.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING “REMOVE CONTENT CONTROL.”

- 6.5.1. Environmental Management System (EMS). The JBLM EMS conforms to the criteria defined in the international standard, ISO 14001:2004 Environmental management systems – Requirements with guidance for use.
- 6.5.2. In accordance with EMS procedures, the Contractor shall be familiar with the JBLM environmental policy and shall ensure that this information is considered and incorporated into this project. Additional information regarding the JBLM EMS is available from the installation EMS Coordinator (253-966-6470). [Contract actions at JBLM Yakima Training Center (YTC) will coordinate with the JBLM YTC EMS Coordinator, who can be contacted at (509) 577-3889.]
- 6.5.3. Both the JBLM environmental policy and an environmental awareness training resource are available at the JBLM EMS webpage: https://home.army.mil/lewis-mcchord/index.php/my-Joint-Base-Lewis-Mcchord/all-services/public_works-environmental_division/environmental-management-system.

6.6. Hazardous Materials

Language for “Hazardous Materials” is JBLM specific. For other locations, some editing may be required.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING “REMOVE CONTENT CONTROL.”

- 6.6.1. For any hazardous materials, the Contractor shall submit an initial list of hazardous materials to be used (including unit of measure and Safety Data Sheet for each product). A copy of these documents must be submitted to the Joint Base Lewis-McChord (JBLM) Pollution Prevention

Program (usarmy.jblm.id-readiness.list.dpw-aul1@army.mil) prior to commencement. These items must be reviewed by Pollution Prevention and authorized for use by addition to the Contractor's Authorized Use List (AUL) issued by Pollution Prevention. The Contractor shall not use any hazardous materials not listed on their current AUL issued by Pollution Prevention.

- 6.6.2. For any in-use hazardous materials, the Contractor shall submit a hazardous material inventory on HJB Form 953 noting the hazardous materials used, the units of measure, quantities used, storage locations, and other information indicated on the form. This inventory shall be submitted at the end of the project. [If the project goes into a new calendar year, the Contractor shall also submit a copy of this inventory (accounting for all hazardous materials) by 15 January.] For any hazardous materials stored on JBLM, this inventory shall be submitted by the 15th day following the calendar year quarter in which the hazardous materials were used or stored. All HJB 953 inventories shall be submitted electronically and addressed email to the Contracting Officer or their representative, with usarmy.jblm.id-readiness.list.dpw-hm-inventory@army.mil included in the carbon copy ("cc") line of the email. Questions regarding the form may be directed to the JBLM Pollution Prevention Program (966-6469). The current HJB Form 953 and form instructions are available at [Section 01 57 19][Section 01 57 20.00 10] of the JBLM Design Standards (<https://www.lewis-mcchord.army.mil/designstandards/index1.htm>).

6.7. Archaeological Requirements

Language for "Archaeological Requirements" is JBLM specific. For other locations, some editing may be required.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING "REMOVE CONTENT CONTROL."

- 6.7.1. Joint Base Lewis-McChord contains many unmarked archaeological sites that may be eligible for listing in the National Register of Historic Places.
- 6.7.2. In the event that human remains, artifacts, or features of archaeological interest are inadvertently discovered, the Contractor shall do the following:
- 6.7.2.1. Immediately cease activity in the vicinity of the discovery.
- 6.7.2.2. Stabilize and protect such discoveries from further disturbance or public disclosure.
- 6.7.2.3. Provide immediate notice (no longer than 24 hours following discovery) by telephone and email to the Installation Cultural Resource Manager and Contracting Officer's Representative.
- 6.7.2.4. Work may not proceed in the vicinity of the discovery until authorized to proceed by the Installation Cultural Resource Manager and the Contracting Officer's Representative (COR).
- 6.7.3. Any post-award changes that have the potential to impact historic buildings, structures, objects, and districts shall be reviewed and approved by the COR in consultation with the JBLM Cultural Resources Program prior to execution.
- 6.7.4. When work under this contract affects an historic property, in order to comply with AR200-1 and Section 106 of the National Historic Preservation Act of 1966, all work shall comply with:

"The Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring and Reconstructing Historic Buildings" (available at <https://www.nps.gov/tps/standards.htm>);

the "Maintenance and Repair Manual for Historic Structures";
the "Landscape Development Plan - Volume II"; and the "Installation Design Guide" (documents available at <http://www.lewis.army.mil/publicworks/> - click on "Design Standards," "Go to Design Standards," and "Reference Manuals").

6.8. JBLM Log Decking Requirements

6.8.1. If timber is to be harvested, coordination with DPW Forestry is necessary in advance of cutting.

6.8.2. As per AR-200-1, 4-3, "Assure that agricultural and forest products are not given away, abandoned, carelessly destroyed, used to offset contract costs or traded for services, supplies, or products or otherwise improperly removed".

6.8.3. Salable Timber Requirements

6.8.3.1. Merchantable trees shall be piled in a neat, limb-free deck for subsequent disposal by the Government.

6.8.3.2. A merchantable tree is defined as a tree with a small end diameter of at least 4 inches and 16 feet in length. Shorter lengths are still salable as firewood and shall be decked accordingly.

6.8.3.3. Log decks shall be located AS DIRECTED by the Joint Base Lewis-McChord Public Works Forestry Branch. DECKING MAY REQUIRE LOG TRANSPORT OFF-SITE TO AN APPROPRIATE LOCATION ON THE INSTALLATION.

6.8.3.4. Trees shall be cut from the stump and limbed (flush to the trunk) out to a 4 inch stem diameter.

6.8.3.5. Trees shall be topped at 4 inches diameter and from this point to the top of the tree shall be considered unmerchantable (slash).

6.8.3.6. Trees shall not be cut into log lengths; if trees are too large to be handled tree length, cut 41- foot logs from the butt end until the top log is less than 16 feet with a small end diameter of 4 inches.

6.8.3.7. Tree length logs shall be piled separately from all shorter material (cut and broken logs).

6.8.3.8. Logs shall not be cut in lengths shorter than 41 feet simply to facilitate haul by dump truck or flatbed unless authorized by the Government.

6.8.3.9. Log decks shall be located so as not to interfere with construction work and so they will be easily accessible for disposal action by the Government.

6.8.3.10. Log decks shall be stable and should not exceed 8 feet in height.

6.8.3.11. Log decks should be separated by species to the greatest extent possible.

6.8.3.12. Black cottonwood is considered unmerchantable and shall NOT be placed in log decks. Treat as slash.

6.8.3.13. Logs with rot showing in both ends are considered unmerchantable and shall be disposed of as slash.

6.8.3.14. Unauthorized removal of logs from JBLM is considered timber theft and subject to prosecution.]

6.8.4. Oregon White Oak replacement

Development, construction or timber harvest operations on Joint Base Lewis-McChord that results in the loss of Oregon white oak trees will be subject to Fish and Wildlife Program mitigation measures. Oregon white oak mitigation will require the project proponent to replant six Oregon white oak seedlings to every one tree (> 4" diameter at breast height (dbh)) that is removed through the direction and coordination with Fish & Wildlife Program staff.]

6.9. Construction and Demolition (C&D) Waste Planning and Reporting

6.9.1. The DOD Integrated (Non-Hazardous) Solid Waste Management Policy requires all facilities to meet a non-hazardous solid waste diversion goal of 64% in 2022 and 66% in 2023 Construction and Demolition Diversion. Create a waste management plan in accordance with section 01 74 19 of the JBLM Design Standards to meet or exceed the C&D waste diversion target.

6.9.2. Complete and submit quarterly C&D Diversion and Disposal Reporting Form (HJB Form 229) in accordance with form instructions and paragraph "Reports" in Section 01 74 19 of the JBLM Design Standards. The form and instructions can be accessed via the links at Division 01 Section [01 57 19][01 57 20.00 10] of the JBLM Design Standards website (<http://www.lewis-mcchord.army.mil/designstandards/index1.htm>). Section 01 74 19 can also be accessed via the Design Standards website.

6.10. Excess Soils and Clearing and Grubbing Debris

PM should coordinate with ED to identify any history of soil contamination at the project site. Language in this section is not applicable to known contaminated sites that have not been remediated. If the site does have history of contamination that has not been remediated, the PM should send the project out for an A&E design.

In-Situ testing is the preferred methodology for soils testing. Soil bore frequencies will be based on the following guidelines jointly developed between ED and ESD:

Site/Construction Description	Bore Frequency	Samples per Bore 0-2 feet³	Composite Sample Depths from Existing Ground Surface
Site fits within a 40 foot diameter circle	1	1	Sample at 0-1.5 feet
Road Work with a footprint greater than 40 foot diameter circle. Bore at centerline.	1 per 100 feet	1	Sample at 0-1.5 feet
Road Work with a footprint greater than 40 foot diameter circle. One bore on each side of the road just past the edge of pavement (with or without stormwater treatment facilities).	1 per 100 feet right & 1 per 100 feet left	2	Samples at 0- 0.5 feet and 0.5-1.5 feet

Paved parking areas with a footprint greater than 40 foot diameter circle	10 per acre	1	Sample at 0-1.5 feet
Linear installation other than a road such as a sidewalk, fence, or electrical trench that does not fit in a 40 foot diameter circle	1 per 50 feet along the alignment of proposed improvement	1	Sample at 0-1.5 feet
Other - Consult with Matt Weeks DPW/PMB			

Notes:

- 1) Bores/samples are only required when soil will be removed from the site. Bores/samples are only required for the areas associated with the soils to be removed from the site.
- 2) Soils that exceed the Model Toxic Control Act limits, can be kept onsite directly adjacent to the excavation (aside) if covered with 6-inches of topsoil and stabilized per the 2014 version of Ecology's Stormwater Management Manual. Contaminated soil that is excavated and can't be placed adjacent to the excavation must be removed from the site.
- 3) Composite Soil Samples shall be collected from 0-1.5 feet below ground surface per the above table. If the depth of excavation is below 2 feet then another composite sample from 1.5 feet to the bottom of excavation is required. If the bottom of excavation is deeper than 5 feet, then an additional composite sample below 5 feet below ground surface at every 5 foot interval (5 – 10 feet, 10 – 15 feet etc.) is required.

The bore frequency rate and bore rates highlighted in green below should be updated per the table above and verified with the ESD Project Management Branch Manager and ED while scoping the project.

The scope is written for in-situ testing. In some cases, that may not be feasible. In these rare occasions, the contractor is instructed to submit an RFI requesting soil stockpiling and testing.

DPW Environmental Division (ED) has limited capabilities for soil sampling and testing. They are limited to hand tools and therefore can't core through roads, etc. The PM should consult with the ESD Project Management Branch manager and ED while preparing a response to a Contractor's RFI to determine if they can perform the soil sampling and testing.

The PM should request support from ED to: 1) identify any history of soil contamination at the project site, peer review bore frequency rate and sample rate highlighted in green below, peer review the Site Sampling Plan pre-construction submittal, and to assist in answering soil contamination related RFIs if any. These activities by ED shall use the same funding source as the project e.g. list ED support on the project WCA.

An approval by the Government of a Contractor RFI requesting soil stockpiling and testing should contain:

- 1) Language defining how soil found to be contaminated will be disposed of, time frame of disposal, and who will pay for it, e.g. 'The Contractor shall be responsible for disposing of soil found to be contaminated off post within 90 days of the test and that disposal shall be at the contractor's sole expense.'
- 2) The stockpile soil sampling rate tables, e.g.

Stockpile Petroleum Contamination Sampling Rates

Cubic Yards of Soil	Number of Samples for Chemical Analysis
0-100	3
101-500	5

501-1000	7
1001-2000	10
>2000	10 + 1 for each additional 500 cubic yards

Based on the Washington Department of Ecology Publication No. 10-09-057 Guidance for Remediation of Petroleum Contaminated Sites, Table 6.9.

Stockpile Metal Contamination Sampling Rates

Stockpile Volume (cubic yards)	Number of Composite Samples (DU arsenic > 100 ppm)	Number of Composite Samples (DU arsenic < 100 ppm)
<500	2	2
500-999	4	4
1,000 – 4,999	8	6
5,000 – 9,999	14	10
10,000 – 19,999	20	14
≥20,000	20 + 1 per 4,000 cubic yards	14 + 1 per 5,000 cubic yards

Based on the Washington Department of Ecology Publication No. 19-09-101 Tacoma Smelter Plume Model Remedies Guidance, Table 5.

- 3) Soil covering requirements, e.g. “Per the 2014 Stormwater Management Manual for Western Washington. See BMP C150: Materials on Hand and Figure IV-2.2.14 Material Covered with Plastic Sheeting.”
- 4) Soil liner requirements, e.g. “For this task order a geomembrane liner is not required under stockpiled soils.”
- 5) Location where the stockpiled soil will be placed, e.g. project site, JBLM pit.

Project extents that are undeveloped areas, require lead and arsenic testing, in accordance with the Tacoma Smelter Plume Model Remedies Guidance. Some sites may require additional analyte tests like PCBs, MTBE, and EDB, depending on historic site use.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING “REMOVE CONTENT CONTROL.”

- 6.10.1. Soil removed from a project site requires testing in accordance with current JBLM Environmental Division Borrow Source Pits Plan, 40 CFR Parts 260 to 279, and WAC 173-340A-703. Soil testing shall be performed by a qualified person as stated in WAC 173-360A-0930(3).

Soil testing shall be complete before excavation begins. JBLM is Large Quantity Dangerous Waste generator and therefore requires stockpiled soil classified as hazardous materials to be removed and disposed of at an appropriate facility within 90-days.

The in-situ sample frequency for this project is a minimum of one (1) soil bore per 50 feet of fence with (1) soil sample per bore. A composite soil samples shall be taken from 0-1.5 feet below the ground surface. For each bore sample, if the depth to the bottom of the excavation is below 2 feet then another composite sample from 1.5 feet to the final grade depth is required. Further, if the bottom of the excavation is deeper than 5 feet, then an additional composite sample below 5 feet below ground surface at every 5 foot interval (5 – 10 feet, 10 – 15 feet etc.) is required.

The [Government will] [Contractor shall] provide soil testing for this project. On this project, testing for [petroleum analytes] [and] [metals analytes] [and] [lead and arsenic] is required. [The Contractor shall submit a Soil Testing Plan as a pre-construction submittal. This plan shall be prepared by qualified person as stated in WAC 173-360A-0930(3).]

In some cases, in-situ testing may not be practicable. In those cases, the contractor must submit a RFI to request to stockpile and test soils. If approved, the soil shall be stockpiled and tested using stockpile sampling rates specified in the 2016 guidance on the remediation of petroleum contaminated sites under the Model Toxics Control Act (MTCA) Chapter 70.105D, and its implementing regulations, Chapter 173-340 WAC. The material shall be covered to minimize erosion and storm water contamination. The stockpile placement shall have minimal impact to the project.

- 6.10.2. JBLM may accept excess or unsuitable soil from JBLM construction and demolition projects for placement in designated former borrow source areas on JBLM. No land clearing debris or sod is accepted. Soil must be tested and prove uncontaminated to be accepted at JBLM borrow source areas. Soils excavated from construction projects fall under Washington State Model Toxic Control Act (MTCA) Method A unrestricted end use criteria (WAC 173-340-740). Soils test results below the MTCA Method A will be considered acceptable for placement in JBLM borrow source areas. Soil test criteria are shown in the table below.

Petroleum and Metals Analyte Testing Criteria

ANALYTES	ANALYTICAL METHOD
Sediment & Soil	
TPH-G	Method NWTPH-G
TPH-D and TPH-HO	Method NWTPH-Dx
Benzene	EPA Method 8260 or 8021
Toluene	EPA Method 8260 or 8021
Ethylbenzene	EPA Method 8260 or 8021
Total Xylenes (m-, o-, p-)	EPA Method 8260 or 8021
Total Naphthalenes	EPA Method 8270
Total cPAHs	EPA Method 8270 sim
Arsenic, Barium, Cadmium, Chromium (total), Copper, Lead, Mercury, Selenium, Silver, Zinc	EPA Method 6000 or 7000 Series

If the tested soil results are above the MTCA Method A, the contractor shall submit an RFI containing a report summarizing the results prepared by a qualified person as stated in WAC 173-360A-0930(3). The contracting officer will determine if the soils can be disposed of on JBLM or if they must be disposed of off base. [If this effort is believed to constitute differing site condition(s), the Contractor shall submit an RFI identifying the situation.]

- 6.10.3. A Borrow Source Area Use Authorization Permit must be completed and approved by DPW/ED staff prior to delivery of soil to the borrow source area. Project Contractors will be required to place soil in the borrow source areas in an organized and planned manner. Permits for Pit use are for 30 days. Permits for staging soils are 90 days. Authorization requests and questions should be directed to DPW/ED staff, call (253) 966-2814 or 6452 or email usarmy.jblm.id-readiness.list.dpw-

earthworks1@army.mil. The Borrow Source Area Use Permit can be found here:
[https://pwdev.lewis-mccchord.army.mil/DesignStandardContentEditor/DocumentRepositoryForDSLlinks/Div-32/1.Borrow Source Pit SOP - Signed.pdf](https://pwdev.lewis-mccchord.army.mil/DesignStandardContentEditor/DocumentRepositoryForDSLlinks/Div-32/1.BorrowSourcePitSOP-Signed.pdf)

6.10.4. Clearing and grubbing debris (e.g., logs, stumps, roots, brush, limbs and other land clearing debris, except for salable timber), shall be diverted from landfill disposal whenever possible. Landfill disposal shall be the last option. Diversion and disposal shall be at the Contractor's expense. On a case by case, pre-coordinated basis; where clearing and grubbing debris is chipped onsite, the clean wood chips may be accepted at JBLM Composting Facility (Eco Park/Earthworks). Requests/questions should be directed to DPW/ED staff at (253) 967-3803, (253) 966-6452, or usarmy.jblm.id-readiness.list.dpw-earthworks1@army.mil.

6.11. [Place holder for National Environmental Policy Act (NEPA) review process restrictions that are generated by the NEPA review conducted by Environmental Division.]

6.12. Air Quality

Equipment installations, modifications, operations, activities, or processes that have the ability to emit pollutants into the atmosphere, shall comply with all Federal and State air emission and performances standards.

6.12.1. Air Permits. It is the Contractor's responsibility to obtain any necessary air permits or meet registration requirements with the Puget Sound Clean Air Agency before the start of construction. The Contractor must coordinate with the COR to ensure all proper permits are acquired and provided to the JBLM Air Program Manager. The submittal must include the air permit application /registration, copy of fee payment and received permits. Information can be submitted by email to usarmy.jblm.id-readiness.list.dpw-air1@army.mil.

6.12.1.1. [HVAC/Refrigerant Containing Equipment]

Equipment installation or replacements. Regardless of size, prior to installation, the Contractor shall submit to the Air Program Manager the make, model, serial number, refrigerant type, ASHRAE Number, and total refrigerant charge (per circuit if applicable) and installation date. Information can be sent to: usarmy.jblm.id-readiness.list.dpw-air1@army.mil.

Equipment removal. The Contractor shall ensure that all refrigerants are properly removed from the unit(s) by an EPA certified technician. Technicians performing air conditioning work must be certified and carry their certification cards with them at all times. Information can be submitted by email to usarmy.jblm.id-readiness.list.dpw-air1@army.mil.

Equipment servicing or repair. For equipment with >50lbs charge, within 10 days of work completion the contractor will provide the Air Program manager with service records indicating the equipment's location, the model and serial number, amount of refrigerant added, refrigerant type and the initial and follow up leak verification rates. Information can be submitted by email to usarmy.jblm.id-readiness.list.dpw-air1@army.mil.

6.12.1.2. [External Combustion Equipment/Fuel Burning equipment. To include but not limited to boilers, hot water heaters, heaters and furnaces. NOTE: Equipment with a rated heat input greater than or equal to 1 MMBtu/hr of any fuel other than natural gas, propane, butane, or

distillate oil, or greater than or equal to 10 MMBtu/hr of any fuel requires permitting or registration under 6.12.1.

Prior installation the Contractor shall provide to the Air Program Manager, equipment specification sheets with the manufacturer name, model #, fuel type, max input (BTU/hr), burner type stack height, stack diameter, stack velocity, serial #, installation date, and ensure the boiler has a gas meter. Information can be submitted by email to usarmy.jblm.imcom.list.dpw-air@army.mil.

Procurement of equipment with low or ultra-low NOx burners is preferred for in order for JBLM to reach emission limits prescribed by Washington State.]

6.12.1.3. [Reciprocating Internal Combustion Engines. To include but not limited to power generators and fire pumps. Prior to installation, to ensure compliance with the New Source Performance Standards of 40 CFR Subparts IIII or JJJJ, and the Reciprocating Internal Combustion Engine (RICE) National Emission Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR Part 60 Subpart ZZZZ, the contractor shall submit to the Air Program Manager, the manufacture's specification sheet for both the engine and the equipment and the US Environmental Protection Agency Certificates of Conformity. Information can be sent to: usarmy.jblm.imcom.list.dpw-air@army.mil.]

7. SPECIAL ACCESS REQUIREMENTS

This paragraph can be used to address special access requirements such as CAA and SCIF areas that involved significant access coordination. Identify any project that requires military escorts and what the escort requirement is within this paragraph. If unused, leave "Reserved."

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING "REMOVE CONTENT CONTROL."

7.1. Reserved.

8. OTHER CONDITIONS AFFECTING WORK

8.1. Work Coordination

8.1.1. Interfacing With Others

8.1.1.1. The Contractor shall plan his work activities in a manner such that there will be minimal interference and inconvenience to ongoing traffic and daily operations in the facility and local areas.

8.1.1.2. All work will be scheduled and coordinated with the Government Project Management Team or their designee at all times.

8.1.1.3. The Contractor may not block traffic, roads, access routes, or exits without prior coordination with the Project Manager or other authorized Government representative.

8.1.2. [Post-Award Partnering Meeting

Generally this paragraph is not required for task orders, though on some complex projects, it can provide a helpful baseline for the project execution. If you are unsure as to whether this should be used, consult with your supervisor.

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- 8.1.2.1. Following the award of this project, the Contractor shall attend a post-award partnering meeting presided over by the Project Manager. The goal of this meeting is to serve as a coordination meeting to establish roles, responsibilities, and expectations of the execution phase.]

8.1.3. Pre-Construction Conference

- 8.1.3.1. The Contractor shall attend a pre-work meeting presided over by the Project Manager prior to commencing construction activities. The Contractor shall contact the Project Manager within **Choose an item or enter duration manually.** days of issuance of the **Choose an item.** NTP to establish a date and time for the preconstruction meeting. The Contractor shall submit a site-specific construction schedule and a site specific Work Plan at that meeting for Government approval unless these items have been previously approved by the Government. The schedule shall be in sufficient detail to identify all aspects of the work including all significant project tasks with durations and start and finish times.

8.1.4. Pre-Construction CQC Coordination Meeting

- 8.1.4.1. The Contractor shall attend a CQC Coordination meeting held in accordance with specification section titled QUALITY CONTROL.

8.2. Contractor Management Personnel and Sub-Contractor Qualifications:

The PM must identify what the requirements are for Contractor Management Personnel and Sub-Contractor Qualifications in this section. For task orders, language for contractor management personnel and sub-contractor qualifications are likely included in the umbrella contract. Almost all of the time, the language in the base contract is sufficient. If sufficient, just reference the base contract language by section and paragraph number using the first paragraph below (and delete the rest of the paragraphs). For non-task order contracts, delete the first paragraph and use the second through the fourth paragraphs below. The PM should consult with the contract delivery team (COR, CS, or KO) to fill out the details for non-task order projects.

If there are specific requirements above and beyond the Base Contract requirements, those would be spelled out here so it is clear they are in addition to the Base Contract requirements but we must avoid contradiction. If any questions arise, discuss with the COR.

Apply this same approach to write sections 8.3, 8.4, and 8.8 below.

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- 8.2.1. [Contractor management personnel shall meet the qualification requirements as outlined in the Base Contract paragraph **INSERT Contract Reference here.**]

- 8.2.2. [The Contractor's management team, i.e. Project Manager and Superintendent, shall have a minimum of 5 years related experience working on projects of similar nature, scope and dollar value.]
- 8.2.3. Sub-Contractors tasked with **INSERT SPECIFIC CONSTRUCTION ACTIVITY HERE** shall have satisfactorily completed a minimum of two projects of similar nature, scope and dollar value.]
- 8.2.4. Sub-Contractors tasked with **INSERT SPECIFIC CONSTRUCTION ACTIVITY HERE** shall have satisfactorily completed a minimum of two projects of similar nature, scope and dollar value.]

8.3. Site Safety and Health Officer

See instruction to PMs in section 8.2 above and apply to this section.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING "REMOVE CONTENT CONTROL."

- 8.3.1. [The Contractor shall provide a Site Safety and Health Officer (SSHO) as required in the specification section titled GOVERNMENTAL SAFETY REQUIREMENTS.]
- 8.3.2. [The Contractor shall provide a Site Safety and Health Officer (SSHO) as required in the specification section titled GOVERNMENTAL SAFETY REQUIREMENTS. The Contractor SSHO must be assigned no other duties.]
- 8.3.3. [The Contractor shall provide a Site Safety and Health Officer (SSHO) as required in the specification section titled GOVERNMENTAL SAFETY REQUIREMENTS. The Contractor SSHO may be assigned other duties in addition to the duties required as SSHO.]

8.4. Construction Quality Control System Manager

See instruction to PMs in section 8.2 above and apply to this section.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING "REMOVE CONTENT CONTROL."

- 8.4.1. [The Contractor shall provide a Construction Quality Control (CQC) System Manager as required in the specification section titled QUALITY CONTROL.]
- 8.4.2. [The Contractor shall provide a Construction Quality Control (CQC) System Manager as required in the specification section titled QUALITY CONTROL. The CQC System Manager must be assigned no other duties.]
- 8.4.3. [The Contractor shall provide a Construction Quality Control (CQC) System Manager as required in the specification section titled QUALITY CONTROL. The CQC System Manager may be assigned other duties in addition to the duties required as CQC System Manager.]

8.5. Compliance with Rules, Regulations, and Statutes

- 8.5.1. All Contractor employees shall observe and comply with all applicable local, State, and Federal rules, regulations, and statutes including those concerning fire, safety, sanitation, security, vehicle

safety, environmental and hazardous material handling while performing this **Choose an item..** All work shall meet or exceed all applicable industry standards.

8.6. Firearms

8.6.1. Contractor personnel shall carry no firearms while performing work under this Contract.

8.7. Work Hours

8.7.1. The construction activity period shall be restricted to 7:30 a.m. to 4:30 p.m. daily, Monday through Friday, excluding Federal holidays. Work hours other than as specified above shall be coordinated with and approved by the **Select appropriate authority, or enter manually..**

8.8. [Site Utilities]

For task orders, language for "Site Utilities" may already be included in the Umbrella Contract; edit paragraphs subordinate to 8.8 as appropriate. For non-task order contracts, edit this language as appropriate. The PM must identify in paras 8.8.1.1 the outage duration and also identify if either water, sewer, and/or electricity is available in paras 8.8.2 and 8.8.3.

See instruction to PMs in section 8.2 regarding Umbrella Contract language and apply to this section.

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8.8.1. Outages

8.8.1.1. Any utility outages, including but not limited to, electrical, mechanical, fire protection and plumbing systems, shall be coordinated at least **Choose a duration or enter manually,** days prior to proposed outages. Coordination will be documented on the appropriate outage request form (separate document for utilities and fire protection systems). Outages shall be scheduled to minimize interruptions to normal using agency operations.

8.8.2. [Potable Water and Sanitary Sewer]

- a. **Temporary Water Connection:** The Government shall make available to the Contractor, from existing outlets and supplies, reasonable amounts of potable water without charge. The Contractor shall conserve potable water furnished. The Contractor, at their own expense, shall coordinate with the water and wastewater system owner, American Water Military Services (AW), for temporary water and/or sewer connections.
- b. **Permanent Water or Sanitary Sewer Connections:** The construction Contractor shall coordinate with AW for all water and wastewater work within the project construction perimeter. Per Army directive memo for utilities privatization, AW shall perform all water and wastewater work related to the water and wastewater systems outside and inside of the project construction perimeter from the system mains up to the Point of Demarcation (POD) for their system. In all situations, AW shall procure and install water and sanitary sewer components from the existing systems to the point of demarcation (POD) at each facility in the project. AW's construction will be awarded through a modification to the water and wastewater systems privatization contract with Defense Logistics Agency (DLA). JBLM DPW Utilities Branch will be responsible for all AW modifications with the point of contact Mr. Douglas Stotler 253-254-9925, douglas.p.stotler.civ@army.mil.

- c. For all work performed by the contractor, inspection and acceptance by AW is required prior to Government acceptance. Acceptance through the Government will not occur without AW's concurrence. AW requirements will govern the installation of the water or sanitary sewer service and Contractor must follow AW standards and requirements.
- d. Cross Connection requirements and hydrant use are the responsibility of AW and any use of hydrants during construction must be coordinated with AW. Any demolition or alteration of water or sanitary sewer system components that are currently owned by AW must be performed by AW as part of a modification to the DLA contract.]
- e. [YTC: Temporary Water Connections: Subject to available supply, the Government, without charge, shall make reasonable amounts of water available to the Contractor for performing work at the work area. The Contractor shall conserve water furnished. The Contractor at their own expense shall install and maintain necessary temporary connections, cross contamination protection and distribution lines and shall remove the connections and lines prior to final acceptance of construction. All work shall be coordinated through DPW.]

8.8.3. Electricity

If the project is on JBLM – Lewis Main, Lewis North, or McChord Field then use paras 8.8.3.1 through 8.8.3.2. If the project is not on Lewis – for instance on YTC or other locations delete paras 8.8.3.1 through 8.8.3.3 and use only the remaining sub paragraph under 8.8.3. If the project is on JBLM and the work cannot be completed by City Light, and Power than include 8.8.3.3.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING
“REMOVE CONTENT CONTROL.”

- 8.8.3.1. [Temporary Power Connections: Subject to available supply, the Government, without charge, shall make reasonable amounts of electric current available to the Contractor for performing work at the work area. The Contractor shall conserve electric current furnished. The Contractor at their own expense shall coordinate with the electrical system owner, City Light & Power (CLP), for temporary electrical connections.]
- 8.8.3.2. [Permanent Power Connections: The construction Contractor shall coordinate with CLP for all exterior electrical civil work within the project construction perimeter. Per Army directive memo for utilities privatization, CLP shall perform all civil and electrical work related to property currently owned by or will be owned by CLP at the completion of the project, both inside and outside of the project construction perimeter. In all situations, CLP shall procure and install electrical components from the existing electrical system to the point of demarcation (POD) for CLP. CLP's construction will be awarded through a modification to the electrical distribution system privatization contract with Defense Logistics Agency (DLA). JBLM PW Utilities Branch will be responsible for all CLP modifications with the point of contact Ms. Royanna Jackson 253-966-3282, Royanna.E.Jackson.civ@army.mil.]
- 8.8.3.3. [For all work performed by the Contractor, inspection and acceptance by CLP is required prior to Government acceptance. Acceptance through the Government will not occur without CLP's concurrence. CLP requirements will govern the installation of the electrical service and Contractor must follow CLP standards and requirements.]
- 8.8.3.4. [YTC and off post locations: Temporary Power Connections: Subject to available supply, the Government, without charge, shall make reasonable amounts of electric current available to the

Contractor for performing work at the work area. The Contractor shall conserve electric current furnished. The Contractor at their own expense shall install and maintain necessary temporary connections and distribution lines and shall remove the connections and lines prior to final acceptance of construction.]

8.8.4. Electrical Meters

[JBLM Advanced Metering Requirements: Due to system compatibility and cyber security requirements and concerns, all meters, pulse kits, JACEs and all metering appurtenances must be approved, in writing, by the JBLM Directorate of Public Works, Utilities Branch Metering Team.

8.8.4.1. Tolerances For Electrical Meters

- a. Outdoor/exterior devices shall be rated for operation and storage from minus 40 degrees C to plus 70 degrees C or better and 5 to 100% relative humidity (RH) (non-condensing). Exterior meters shall be provided with or installed within a NEMA 4 enclosure. Enclosures shall be NEMA 4X for coastal and corrosive environments. When ambient temperature extremes exceed the rating above, provide enclosures with heat strips to maintain operable temperatures. Enclosures shall be lockable (key lock) for information security issues.
- b. Indoor/interior devices shall be rated for operation and storage from 0 degrees C to plus 50 degrees C or better and 5 to 90% relative humidity (non-condensing). Interior meters or meters located in mechanical rooms shall be provided with or installed within a NEMA 12 lockable enclosure.
- c. All interior meters and/or remote interface displays shall be provided with or installed within a NEMA 12 enclosure

8.8.4.2. Communication Protocol and Methods.

Meters shall communicate via Modbus RTU protocol.

- a. Auxiliary data ports. Unless otherwise specified, smart meters shall have a minimum of four pulse inputs and a 5VDC power supply for incorporation of other external meter data.
- b. The meter must be capable of providing and storing 15 minute interval data for 20 distinct points for minimum of 30 days to non-volatile memory. The measured energy consumption shall be retained in non-volatile memory. The maximum demand and time of maximum demand shall be stored in non-volatile memory and can be reset.

8.8.4.3. Requirements

- a. Meter display. Meter displays shall provide face plate configurable menus to select the desired data for display. Display requirements may be met with the installation of a local display panel connected to the meter. All collected data shall be capable of display
- b. The meters must comply with the applicable requirements of the International Green Construction Code, 2018 Edition as well as all applicable UFC's.
- c. Power Systems: Meters shall be designed for multifunction electrical measurement on either single or 3 phase power systems. Meter shall support the power configuration as identified at site specific government facilities: single phase (120 or 240 volt); 3 Phase, 3 Wire Delta; 3 Phase, 4 Wire Delta; 3 Phase, 4 Wire Wye (2.5 Element); 3 Phase, 4 Wire Wye (3.0 Element). For three phase application voltage range is 208 – 600V. All meters shall be UL 508 Listed, CSA approved, have CE marking, and meet safety standards UL 1244 or UL 1010-1
- d. Mandatory measured variables: See Electric Meter points table below for details and additional requirements. Points list assumes a 4 wire delta power configuration.

PWR-TOT	Real Power (Total)
KWH-TOT	Total KWH (Total Energy)
PWR-DEMAND-PEAK	Historical Peak Demand Power
PWR-DEMAND	Demand Power
VOLT-A	Rms Voltage For Phase A
VOLT-B	Rms Voltage For Phase B
VOLT-C	Rms Voltage For Phase C
AMP-A	Rms Current For Phase A
AMP-B	Rms Current For Phase B
AMP-C	Rms Current For Phase C
HZ-AVG	Average Line Frequency
PF-AVG	Average Power Factor
PH-D	Phasor Diagram

Optional	
PWR-A	Real Power For Phase A
PWR-B	Real Power For Phase B
PWR-C	Real Power For Phase C
HZ-A	Frequency For Phase A
HZ-B	Frequency For Phase B
HZ-C	Frequency For Phase C
KVA-TOT	Total Kva
KVA-A	Kva For Phase A
KVA-B	Kva For Phase B
KVA-C	Kva For Phase C
KVAR-TOT	Total Reactive Power
KVAR-A	Reactive Power For Phase A
KVAR-B	Reactive Power For Phase B
KVAR-C	Reactive Power For Phase C
KVARH-TOT	Total Kvarh (Total Reactive Energy)
KVARH-A	Kvarh (Total Reactive Energy) For Phase A
KVARH-B	Kvarh (Total Reactive Energy) For Phase B
KVARH-C	Kvarh (Total Reactive Energy) For Phase C
PF-A	Power Factor For Phase A
PF-B	Power Factor For Phase B
PF-C	Power Factor For Phase C

8.8.4.4. Accuracy

- (1) System Accuracy: System accuracy for the meter product devices including instrument transformers shall not exceed plus or minus 1.5% as calculated using the Root Sum Square (RSS) method and assuming normal distribution.
- (2) Meter Accuracy: Meter certification shall be IEEE/ANSI C12.20, Accuracy class 0.5% or the meter shall be calibrated with National Institute of Standards and Technology (NIST) traceable standards to an accuracy of 0.5% or better.
- (3) For reimbursable tenants meter certification shall be NEMA/ANSI C12.20, Accuracy class 0.2%. These meters shall include a Meter display that can display all recorded values.

8.8.4.5. Surge Protection: Meters shall comply with IEEE/ANSI C37.90.1, Standard surge withstand capability (SWC) tests for relays and relay systems associated with electric power apparatus and IEEE C62.41

8.8.4.6. Instrumentation (CTs and PTs)

- a. Current transformers (CTs) sized properly so that the meter secondary of the transformer shall output current to ensure at least a plus or minus 0.3% accuracy of current when measured between 10% and 90% of full amperage range. CTs shall have integral shorting capability.
- b. CTs shall not exceed 5 amps on the secondary side.
- c. Burden on CTs shall not exceed rated burden for the accuracy class.
- d. CTs shall be provided in solid or split core configurations.
- e. CTs shall be provided in the appropriate ranges to meet the full service entrance amperage requirements.
- f. CTs shall be revenue grade and certified per IEEE/ANSI C57.13 or IEC 185.
- g. CTs shall be provided that are rated for the appropriate matching frequency of the power generation (60 Hertz CONUS and 50 Hertz OCONUS where applicable).
- h. Current sensors are not authorized.
- i. Voltage or Potential Transformers (PTs) sized properly so that the meter secondary of the transformer shall output voltage to ensure at least a plus or minus 0.3% accuracy of voltage when measured from zero to the IEEE/ANSI C57.13 or IEC 185 specified standard burden, at the specified standard burden power factor, and at any value from 90% to 110% of rated voltage.
- j. PTs shall be revenue grade and certified per IEEE/ANSI C57.13 or IEC 185.
- k. Burden on PTs shall not exceed rated burden for accuracy class.

8.8.4.7. Disconnects and Shorting Blocks

- a. The appropriate metering accessories, terminal blocks, shorting blocks, and fuses shall be built into each enclosure and the enclosure shall have an appropriate grounding termination point per standard industry practices. Disconnect wiring blocks shall be provided between the current transformer and the meter where 5 AMP current transformers are used. A shorting mechanism shall be built into the wiring block to allow the current transformer wiring to be changed between shorting block and meter without removing power to the transformer. The wiring blocks shall be located where they are accessible without the necessity of disconnecting power to the transformer. For multi-ratio current transformers, provide a shorting block from each tap to the common lead. The shorting mechanism must be capable of carrying the current of each current transformer so that the electric meter can be safely removed from the circuit for testing or repair. Low voltage, 0-5 volt current sensors are exempt from the shorting block requirement.
 - b. Voltage-monitoring circuits shall be equipped with disconnect switches to isolate the meter base or socket from the voltage source.
 - c. Short circuit protection for each power supply circuit or measuring voltage circuit entering the enclosure must be included in the enclosure. This shall be appropriately sized to protect equipment and personnel should an accidental short occur during maintenance inside the enclosure. Fuses or breakers with appropriate UL ratings shall be used. Fuse type and rating shall be depicted on the As-Built drawings.
 - d. Switching mechanisms adequate to de-energize all power supply and voltage circuits entering the enclosure must be included in the enclosure. If a breaker is utilized for the short circuit protection that can fulfill this function, no additional hardware will be required.
- (1) In those installations where the meter enclosure is to be located outside of an electrical panel or switchgear the CT's shall have an additional readily accessible shorting device located within the panel or switchgear. The potential conductors to the meter shall also be fused, utilizing an additional finger safe fuse block, protected at 5 amps. Fuse block and shorting block are to be readily accessible and located within the panel or switchgear.

8.8.4.8. Gas Metering

- a. Connections to Publicly or Privately Operated Gas Utility Lines: The contractor shall include all materials for the connections to the existing gas lines. Final connections and the turning on of gas shall be made by the utility. The Contractor shall notify the Contracting Officer and Utility Sales Officer in writing, 10 days before final connections and turning on of gas lines. The Contractor shall make necessary arrangements with the Utility for tie in and activation of new gas lines. Only the Operating Agency/Utility Company may reactivate the system after tie in. The Contractor shall furnish to the Contracting Officer a certification by the Operating Agency/Utility Company that all Utility work has been satisfactorily completed
- b. Meters shall have a pulse switch initiator capable of operating up to speeds of 500 pulses per minute with no false pulses and shall require no field adjustments or calibration. Initiators shall provide the maximum number of pulses up to 500 per minute that is obtainable from the manufacturer. The minimum pulse rate shall not be less than one pulse per 100 cubic feet of gas. Pulse output shall be derived by means of a G.E.Chatterbox installed by the Gas Utility Provider.

8.8.4.9. Water Metering

- a. Requirements

(1) The water meters must comply with the requirements of the International Green Construction Code, 2018 and all applicable UFCs. Where conflicts occur between this guidance and the International Green Construction Code, 2018, the International Green Construction Code, 2018 shall prevail.

(2) In addition to the requirements listed below Water Meters shall be in accordance with UFGS SECTION 33.11.00. Water Meters shall be the turbine, propeller, or displacement type with pulse output chosen to meet the specific application (pipe size, flow, pressure, etc.). Water Meters shall be manufactured by Neptune, SeaMetrics, Badger Meter Inc., DLJ, or approved equal. The location of meters and meter boxes shall be shown on the as built drawings. The meters shall be centered in the boxes to allow for reading and ease of removal or maintenance.

Quantities Measured: Gallons of Water (pulse for every 10 gallons)

Accuracy: 1.5% of scale.

Resolution: 1 Gallons per Minute (GPM)

Measurement Configuration: Water Supply to a building. For buildings that already have a water meter with a pulse output, ensure that the pulse output is connected to a data gathering device (i.e. electric meter). For buildings where a water meter already exists but does not have a pulse output, add a pulse kit to the existing meter and tie the output into a data gathering device. If the existing meter will not accept a pulse kit or if no meter exists, a new water meter shall be installed, also requiring a pulse output to a data gathering device.

b. Water Meter Types

(1) Turbine Type Meters: Turbine type meters shall conform to American Water Works Association (AWWA) C701 Class I or Class II depending on the application. The main casing shall be bronze or cast iron protected by corrosion resistant coating with stainless steel external fasteners. Registers shall be straight-reading type, shall be permanently sealed and shall read in U.S. gallons. Connections shall be suitable to the type of pipe and conditions encountered. Register type shall be a direct-reading remote register designed in accordance with AWWA C706 or an encoder type remote register designed in accordance with AWWA C707 but must be compatible with the local EEDRS. Meters shall comply with the accuracy and capacity requirements of AWWA C701.

(2) Propeller Type Meters: Propeller type meters shall conform to AWWA C704. Registers shall be straight-reading type, shall be permanently sealed and shall read in U.S. gallons. Connections shall be suitable to the type of pipe and conditions encountered. Register type shall be a direct-reading remote register designed in accordance with AWWA C706 or an encoder-type remote register designed in accordance with AWWA C707 but must be compatible with the local EEDRS. Meters shall comply with the accuracy and capacity requirements of AWWA C704.

(3) Displacement Type Meters: Displacement type meters shall conform to AWWA C700. Registers shall be straight-reading and shall read in U.S. gallons. Meters in sizes 1/2 through 1 inches shall be frost-protection design as required by the local environmental conditions. Connections shall be suitable to the type of pipe and conditions encountered. Register type shall be a direct-reading remote register designed in accordance with AWWA C706 or an encoder type remote register designed in accordance with AWWA C707 but must be compatible with the local EEDRS. Meters shall comply with the accuracy and capacity requirements of AWWA C700.

- (4) Compound Type Meters: Compound type meters shall conform to AWWA C702 and shall be furnished with strainers. The main casing shall be bronze or cast iron protected by corrosion resistant coating with stainless steel external fasteners. The main casing shall be tapped for field testing purposes. Registers shall be straight-reading type, shall be permanently sealed and shall read in U.S. gallons. The meter shall be equipped with a coordinating register. Connections shall be suitable to the type of pipe and conditions encountered. Register type shall be a direct-reading remote register designed in accordance with AWWA C706 or an encoder type remote register designed in accordance with AWWA C707 but must be compatible with the local EEDRS. Meters shall comply with the accuracy and capacity requirements of AWWA C702.

8.8.4.10. Building Level Controller

- a. Shall be a Java Application Control Engine capable utilizing Tridium Niagara 4 software. And shall have the following: minimum of 128 MB of memory, one 10/100 Mb Ethernet port, one RS-485 serial port configured for Modbus, one RS-232 serial port, one BacNet port, six universal inputs, and four relay outputs.
 - (1) Indoor/interior devices shall be rated for operation and storage from 0 degrees C to plus 50 degrees C or better and 5 to 90% relative humidity (non-condensing). Interior JACEs located in mechanical/electrical rooms shall be provided with or installed within a NEMA 12 lockable enclosure.
 - (2) Outdoor/exterior devices shall be rated for operation and storage from minus 40 degrees C to plus 70 degrees C or better and 5 to 100% relative humidity (RH) (non-condensing). Exterior JACEs shall be provided with or installed within a NEMA 4 enclosure. Enclosures shall be NEMA 4X for coastal and corrosive environments. When ambient temperature extremes exceed the rating above, provide enclosures with heat strips to maintain operable temperatures. Enclosures shall be lockable (key lock) for information security issues.

8.8.4.11. Installation

- a. Contractor shall install JACE controller, electrical meter, gas pulse wiring to gas meter location and water meter as required. Contractor shall ensure Electrical meter is calibrated and connected to JACE controller, Contractor shall connect Gas pulse kit and Water Meter pulse output to JACE as required. If the Electrical meter is equipped with appropriate I/O connections, Gas and Water pulse units shall connect to the Electrical meter and the Electrical meter shall be connected to the JACE.
- b. Contractor will install Cat-6 communications cable from JACE location to Communication Closet that houses JBLM network switch. Cable shall be terminated on Network Patch Panel and marked as "EEDRS"
- c. JACE controller will be installed in electrical room/space and shall be provided power by a dedicated circuit derived from a potential tap from the main service bus and protected by a 15 amp overcurrent device.
- d. Contractor shall not be responsible for integration of the JACE and associated metering equipment into the JBLM Enterprise Energy Data Reporting System unless such equipment was previously installed in a facility being renovated.

8.8.4.12. Existing EEDRS connected metering equipment

- a. Where there are existing JACE's, RF units, electrical, gas and water meters installed, those devices are to be retained according to the following conditions and exceptions.
- b. Where there is an Advanced EEDRS Electrical Meter that is external to an MDP or switchgear, said meter to be retained and re-used. In the event that a facilities electrical service capacity is increased or decreased, new CT's shall be installed that meet the requirements of paragraph 1.6 and the electrical meter shall be reprogrammed to accept the new CTs.
- c. Where there is an Advanced EEDRS Electrical Meter that is internal to an MDP or switchgear, and a new MDP or switchgear is to be installed said meter to be retained and re-used. In the event that a facilities electrical service capacity is increased or decreased, new CT's shall be installed that meet the requirements of paragraph 1.6 and the electrical meter shall be reprogrammed to accept the new CTs. Meter to be installed in factory provided metering section which shall have all of the equipment described in paragraph 1.7.
- d. Where an existing Gas meter with existing pulse kit is to be retained, the contractor shall install new pathway and cabling from the pulse kit to the EEDRS JACE location or the Electrical meter location, depending on where the Gas pulse unit is currently connected. If a new or larger Gas service is to be installed, the ratio of the new pulse shall be the same as the old pulse kit and shall be connected to the appropriate EEDRS device.
- e. Where an existing Water meter with existing pulse kit is to be retained, the contractor shall install new pathway and cabling from the pulse kit to the EEDRS JACE location or the Electrical meter location, depending on where the Water pulse unit is currently connected. If a new or larger Water service is to be installed, the ratio of the new pulse shall be the same as the old pulse kit and shall be connected to the appropriate EEDRS device.
- f. Where there is an existing EEDRS JACE, it shall be kept powered for the duration of the work being performed. If the JACE enclosure is to be removed, it shall be repowered, while in storage, no later than 4 hours after removal. Temporary cord and plug is acceptable. Pathway and Cat6 cabling shall be provided by the contractor to reconnect JACE to JBLM network switch.
- g. Where there is an existing EEDRS RF unit and antenna, every effort to leave said unit and antenna in place shall be taken. In the event that relocation is necessary, the contractor will be responsible to provide the same type and quality RF cabling from the new location of the RF unit to the new location of the antenna. Antenna location must be approved through JBLM Department of Public Works, Engineering Services Division, and Utility Sales Officer.]

Contact the JBLM PW Utilities Branch at 253-966-3282 to identify any specific requirements connected with these activities.

YOU MAY DELETE THIS INSTRUCTION BY RIGHT-CLICKING AND SELECTING "REMOVE CONTENT CONTROL."

8.9. Permits

8.9.1. The Contractor shall obtain and submit copies of ALL permits, unless otherwise specified. Each permit shall be obtained before starting the respective items of work. This includes, but is not limited to, permits necessary for decontaminating water and sewer systems, and digging permits.

8.9.2. Contractors must obtain a "Dig Permit" from Public Works prior to any ground disturbing activities.

- 8.9.3. Once utilities have been marked as part of the dig permit process, the Contractor shall document (photographs and plan drawings) and maintain the markings for the duration of the project.
- 8.9.4. Projects disturbing an acre or more must request coverage under the NPDES CGP and provide the JBLM Stormwater Program with a copy of the NOI. Submit an electronic Notice of Intent (eNOI) for CGP coverage through the EPA CGP-Net by following the link:<https://www.epa.gov/npdes/submitting-notice-intent-noi-notice-termination-not-or-low-erosivity-waiver-lew-under> Submit a copy of the eNOI to the JBLM Stormwater Program email at: usarmy.jblm.id-readiness.list.dpw-stormwater@army.mil

8.10. Safety

- 8.10.1. USACE Safety and Health Requirements Manual (EM 385-1-1), available online at <http://www.publications.usace.army.mil/USACEPublications/EngineerManuals.aspx>, shall be considered to be a part of this **Select contract type**, and will be enforced as such. The Contractor shall prepare an accident prevention plan in accordance with the most current version of EM 385-1-1.
- 8.10.2. [The Traffic Control Plan, as required in section 08 of the EM 385-1-1, shall be prepared in accordance with the Manual on Uniform Traffic Control Devices.]

8.11. Operation and Maintenance Requirements

Final O&M manuals are submitted to O&M customer service by the PM after approval by the COR. In addition, final O&M manuals and maintenance guidance for structural stormwater BMPs must be submitted to the JBLM Stormwater Program when construction is completed.

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- 8.11.1. Operation and maintenance manuals as required by the UFGS Technical Specifications (Divisions 2 thru 48), shall be provided by the Contractor, and edited as required. The intent of the O&M Manuals is to promote and maximize the efficiency, economy, safety, and effectiveness of the life cycle operation, maintenance, and repair of the facility.

8.12. Construction Facilities And Temporary Controls

Large laydown areas outside of project site require coordination with DPW Master Planning.

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- 8.12.1. [A staging area shall be provided for the Contractor at XXXXXXXX.]
- 8.12.2. [A staging area is not available for use at the project site.]
- 8.12.3. [Contractor-owned or -leased trailers must be identified by Government assigned numbers. Apply the number to the trailer within 14 calendar days of notification, or sooner, if directed by the Government. Contact Marcia Bilyeu at marcia.e.bilyeu.civ@army.mil to request a facility number assignment. Temporary facilities will meet requirements as identified in EM 385-1-1 Section 04.]

- 8.12.4. The Contractor is responsible for security of his own property and security of government property when construction activities affect existing security measures.
- 8.12.5. The Contractor shall provide and maintain portable toilet facilities at the site for the use of Contractor and subcontractor personnel, as required by the EM 385-1-1. The units shall be emptied and cleaned at least once a week, or more often if required by the COR. The doors to the unit shall be self-closing. Additionally, the toilet units shall be located out of public view as the site allows.

9. [GOVERNMENT FURNISHED MATERIAL/EQUIPMENT]

Public Works frequently has stockpiled materials, such as native soil, mulch, crushed concrete, and ground up HMA. Unprocessed concrete and asphalt are available also. Contact the Sustainability and Pollution Prevention branch in the Environmental Division at (253) 966-1772 to coordinate use prior to including in the SOW. It is recommended that coordination be documented in writing to include project name, type of material, quantity, and when required.

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9.1. The following government furnished material/property will be installed by the Contractor:]

10. ANTI-TERRORISM (AT) AND OPERATIONAL SECURITY (OPSEC)

10.1. **AT Level I Training.** All Contractors and their subcontractors required to work on [JBLM] [YTC] shall complete AT Level 1 awareness training prior to commencing work on [JBLM] [YTC]. The Contractor shall submit a signed company letter stating the annual AT Level 1 training has been or will be completed by all employees and subcontractors prior to commencing any work on [JBLM] [YTC]. Training certificates shall be maintained and be available for inspection. Compliance may be verified by the Government Quality Assurance Representative (QAR). AT Level 1 awareness training is available at the following website: <https://jkodirect.jten.mil>

10.2. **Access and General Protection/Security Policy and Procedures.** All Contractor and all associated sub-contractor employees shall comply with applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by government representative). The Contractor shall comply with Joint Base Lewis-McChord security regulations: JBLM Regulation 210 1, JBLM Post Regulations, Chapter 7, section XVII; JBLM Regulation 190-13, Access to and Conduct While on the Joint Base Lewis-McChord; and JBLM Regulation 190-5, Installation Traffic Code. Contractor employees shall display either Contractor provided identification badges or the AIE Long Term Badge issued by JBLM. If the Contractor does not have an AIE Long Term Badge, they shall develop a Contractor-provided identification badge made of nonmetallic material, easily readable and include the employee's name, the Contractor's name, and a recent color photograph of the employee. The first step to obtain an AIE Long Term Badge (12 months) is to ensure the Contractor's corporation is on the DES Contractor Access List (CAL) with the correct dates for the contract/task order, the Contractor will request through the PM/COR to be placed on the CAL. Both USACE and PW have POCs for the PM/COR to process CAL additions. The second step is a copy of the company's personnel roster of those requiring badges (showing full name, date of birth, company name, position in company, how often do you come on post, what hours do you access post, what days of the week, and email address) needs to be sent through the PM/COR who will process the list through the USACE or PW POC to DES. If the individuals on the list require access outside of 0700-1700 Monday to Friday this needs to be annotated on the list. The third step is to request AIE Long Term Badge using the AIE LONG TERM

BADGE REQUEST FORM, the form will require a government employee signature, the completed form is taken to either the JBLM Lewis Main or the JBLM McChord Field Visitor Centers for the background check, then the person who needs the badge goes to Waller Hall Vehicle Registration with the form where the badge is issued. Contractor personnel shall wear the identification badge at all times when performing work under this contract at a Government site, including while attending Government meetings that may take place outside the Government facility. Each Contractor employee shall wear the identification badge in a conspicuous place on the front of exterior clothing and above the waist except when safety or health reasons prohibit such placement. The Contractor shall also provide all information required for background checks to meet installation access requirements to be accomplished by installation Provost Marshal Office, Director of Emergency Services or Security Office. Contractor workforce must comply with all personal identity verification requirements as directed by DOD, HQDA and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in Contractor security matters or processes.

- 10.2.1. **Real ID Act.** Joint Base Lewis-McChord is in compliance with the REAL ID Act of 2005. This means visitors presenting drivers licenses and Identification cards stating "Not Valid For Federal Purposes" or "Federal Limits May Apply" will need to provide supplemental documentation to prove identity (see link below) in order to be issued a temporary installation pass or a AIE long term pass. If a visitor requesting access does not have REAL ID Act compliant form of identification and cannot provide supplemental identity proofing documents, they must be escorted at all times while on the installation. Each time the pass or AIE long term pass is renewed the supplemental documentation will need to be provided again. For the most current information concerning state-by-state compliance with the REAL ID Act, visit:
[HTTPS://WWW.DHS.GOV/CURRENT-STATUS-STATES-TERRITORIES](https://www.dhs.gov/current-status-states-territories).

- 10.3. **iWATCH.** All Contractor employees and their subcontractors required to work on JBLM shall complete iWatch training prior to commencing work on JBLM. The Contractor shall submit a signed company letter stating the one-time iWatch training has been or will be completed by all employees and subcontractors prior to commencing any work on JBLM. Compliance may be verified by Government QAR. iWatch training is available at the following website:
<https://www.army.mil/standto/2018-07-25> or straight to the video at <https://www.dvidshub.net/video/583923/iwatch-2018>. This training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity. Report the suspicious activity to [253-912-4442 or 911] [(509) 577-3236 - Police desk (non-emergency)].

For JBLM use [253-912-4442 or 911](https://www.dvidshub.net/video/583923/iwatch-2018) and for YTC use [\(509\) 577-3236](https://www.dvidshub.net/video/583923/iwatch-2018).

10.4. OPSEC

- 10.4.1. Operations security (OPSEC) denies adversaries sensitive information, critical information or essential elements of friendly information. This information requires special protection from disclosure that could compromise or cause a threat to our National Security, an Army organization, activity, family member, DA civilian, or DOD Contractor. OPSEC is everyone's responsibility that comes in contact with the information. Information that is described below must be controlled, and

if the information is in digital or hardcopy format, it needs to be destroyed at contract completion. Control includes not disclosing the information to personnel who do not have the need to have this information; if digital, do not post in a manner open to the public and if hard copy secure in a locked area (office, trailer, vehicle, etc...) Examples which may be deemed sensitive include but are not limited to information related to:

- Unit structuring
- administration and personnel
- manning
- Military Operations Planning
- equipment
- intelligence, counterintelligence
- Training and readiness
- security
- vulnerabilities
- logistics
- deploying
- financial data and funding
- acquisition plans
- Drawings, blue prints, as-builts and designs
- capabilities
- utility systems information (electrical, water, waste water, storm water, gas, communications)
- morale
- Controlled Unclassified Information (CUI)
- Personally Identifiable Information (PII)

10.4.2. Handle any attempt by unauthorized personnel to solicit sensitive information (for example computer breach or questioning employees on or off JBLM) as a Threat Awareness and Reporting Program (**TARP**) incident. Report all facts immediately by calling [253-912-4442 or 911] [(509) 577-3236 - Police desk (non-emergency)] (see iWatch paragraph above) and inform the COR.

For JBLM use 253-912-4442 or 911 and for YTC use (509) 577-3236.

10.4.3. **OPSEC Level I Training.** All Contractor employees and their subcontractors required to work on JBLM or have access to contract documents shall complete Level I OPSEC training prior to commencing work on JBLM. The Contractor shall submit a signed company letter stating the annual Level I OPSEC training has been or will be completed by all employees prior to commencing any work on JBLM. Training certificates shall be maintained and be available for inspection. Compliance may be verified by the Government QAR. Level I OPSEC training is available at the following website: <http://www.cdse.edu/catalog/operations-security.html>.

10.5. The Contractor and subcontractors shall pre-screen all employees required to work on JBLM using the E-Verify website (<https://www.e-verify.gov/>) to meet the established employment eligibility requirements. The Contractor shall ensure that the employee has two valid forms of Government issued identification to ensure the correct information is entered into the E-verify system. The Contractor shall submit a signed company letter stating all employees have or will be screened in E-Verify prior to commencing any work on JBLM.