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USACE / NAVFAC / AFCEC / NASA

UFGS-01 78 00 (May 2019)

Change 1 - 08/21

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Preparing Activity: USACE

Superseding

UFGS-01 78 00 (August 2011)

## UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated April 2022

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**05/19, CHG 1: 08/21**

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SECTION 01 78 00

CLOSEOUT SUBMITTALS  
05/19, CHG 1: 08/21

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NOTE: This guide specification covers the requirements for closeout submittals including: revised project documents, warranty management, testing, adjusting and balancing, O & M manuals, and cleanup.

Adhere to [UFC 1-300-02](#) Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable item(s) or insert appropriate information.

This guide specification includes tailoring options for DESIGN-BID-BUILD (DBB), DESIGN-BUILD (DB), ARMY, NAVY, AIR FORCE and NASA projects. Selection or deselection of a tailoring option will include or exclude that option in the section, but editing the resulting section to fit the project is still required. This guide specification also includes tailoring options for BIM and Advanced BIM Modeling and is tailored for ARMY and AIR FORCE.

Remove information and requirements not required in respective project, whether or not brackets are present.

Comments and suggestions on this guide specification are welcome and should be submitted as a [Criteria Change Request \(CCR\)](#).

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PART 1 GENERAL

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NOTE: Coordinate with the customer regarding

special warranty requirements and options.

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1.1 REFERENCES

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NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a Reference Identifier (RID) outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

\*\*\*\*\*

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM E1971 (2005; R 2011) Standard Guide for Stewardship for the Cleaning of Commercial and Institutional Buildings

GREEN SEAL (GS)

GS-37 (2017) Cleaning Products for Industrial and Institutional Use

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 1110-1-2909 (2012) Engineering and Design -- Geospatial Data and Systems

ERDC/ITL TR-12-1 (2015) A/E/C Graphics Standard, Release 2.0

ERDC/ITL TR-12-6 (2015) A/E/C CAD Standard - Release 6.0

U.S. DEPARTMENT OF DEFENSE (DOD)

FC 1-300-09N (2014; with Change 4, 2018) Navy and Marine Corps Design

UFC 1-300-08 (2009; with Change 2, 2011) Criteria for Transfer and Acceptance of DoD Real Property

1.2 DEFINITIONS

1.2.1 As-Built Drawings

\*\*\*\*\*  
**NOTE: All Navy project use first set of brackets.  
 The second set of brackets are tailored options for  
 use on Army or NASA projects only.**  
 \*\*\*\*\*

As-built drawings are the marked-up drawings, maintained by the Contractor on-site, that depict actual conditions and deviations from the Contract Documents. These deviations and additions may result from coordination required by, but not limited to: contract modifications; official responses to submitted Requests for Information (RFI's); direction from the Contracting Officer; design that is the responsibility of the Contractor, and differing site conditions. Maintain the as-builts throughout construction as [ red-lined hard copies on site] [ and] [ or] [ red-lined PDF files]. These files serve as the basis for the creation of the record drawings.

1.2.2 Record Drawings

\*\*\*\*\*  
**NOTE: Use this paragraph for Design-Build projects. For Design-Bid-Build projects, only use this paragraph if the Contractor is preparing the Record Drawings.**

Use the second bracketed paragraph, tailored for Army, if the record drawings are to be produced from the Record Model.

\*\*\*\*\*

The record drawings are the final compilation of actual conditions reflected in the as-built drawings.

\*\*\*\*\*

**NOTE: Use the following tailored paragraphs for Army projects only. Select the preferred method of producing the Record Drawings for the project.**

Insert information when BIM is required on a project.

If the preferred method is to produce Record Drawings from the Record Model, edit and keep the paragraphs below.

\*\*\*\*\*

[Produce the record drawings from the Record Model(s) and do not include annotations indicating revisions.]

[1.2.3 Record Model

A model reflecting approved changes during construction including red-lines, requests for information (RFI's), and contract modifications. Include updated construction phase facility/site data for components.

]1.2.4 Advanced Modeling

A subset of geospatial technologies as defined in EM 1110-1-2909 to include Building Information Modeling (BIM), Civil Information Modeling (CIM), Geographic Information Systems (GIS), and Computer-Aided Design (CAD). Advanced modeling is comprised of models and drawings that form a digital representation of the project, or part thereof, that are comprised of model elements with facility data.

]1.2.5 USACE CAD/BIM Technology Center

The USACE CAD/BIM Technology Center hosts all standard content for USACE. This content can be accessed through the CAD/BIM Technology Center website, <https://cadbimcenter.erdc.dren.mil/>.

]1.3 SOURCE DRAWING FILES

\*\*\*\*\*  
**NOTE: Use this paragraph if Contractor is providing  
the Record Drawings.**  
\*\*\*\*\*

Request the full set of electronic drawings, in the source format, for Record Drawing preparation, after award and at least 30 days prior to required use.

1.3.1 Terms and Conditions

Data contained on these electronic files must not be used for any purpose other than as a convenience in the preparation of construction [drawings and ]data for the referenced project. Any other use or reuse shall be at the sole risk of the Contractor and without liability or legal exposure to the Government. The Contractor must make no claim and waives to the fullest extent permitted by law, any claim or cause of action of any nature against the Government, its agents or sub consultants that may arise out of or in connection with the use of these electronic files. The Contractor must, to the fullest extent permitted by law, indemnify and hold the Government harmless against all damages, liabilities or costs, including reasonable attorney's fees and defense costs, arising out of or resulting from the use of these electronic files.

These electronic CAD drawing files are not construction documents. Differences may exist between the CAD files and the corresponding construction documents. The Government makes no representation regarding the accuracy or completeness of the electronic CAD files, nor does it make representation to the compatibility of these files with the Contractor hardware or software. In the event that a conflict arises between the signed and sealed construction documents prepared by the Government and the furnished Source drawing files, the signed and sealed construction documents govern. The Contractor is responsible for determining if any conflict exists. Use of these Source Drawing files does not relieve the Contractor of duty to fully comply with the contract documents, including and without limitation, the need to check, confirm and coordinate the work of all contractors for the project. If the Contractor uses, duplicates or modifies these electronic source drawing files for use in producing construction [drawings and ]data related to this contract, remove all previous indicia of ownership (seals, logos, signatures, initials and dates).

1.4 RECORD DRAWINGS

\*\*\*\*\*  
NOTE: Use this paragraph for ARMY and NASA only.  
Do not use for NAVY projects. This paragraph is  
tailored for ARMY and NASA.  
\*\*\*\*\*

The Government will provide pdf and or program files at the preconstruction conference that contains one set of "as-designed" electronic CAD files in the specified software and format revised to reflect all amendments and the final contract PDF drawings. The CAD files are provided to enable preparation of as-built or as-constructed drawings. If discrepancies exist between the CAD files and the contract PDF drawings, correct the CAD files to show the contract PDF drawings.

1.4.1 Variation with Contract Drawings

The electronic files provided are not part of the contract documents. If there is any discrepancy between the electronic files and the contract drawings, the contract drawings govern. The Government has no responsibility to modify any GFM due to changes in the design that occur after award.

Evaluate the content and quality of the GFM upon receipt. If major discrepancies or omissions occur in the GFM, notify the Contracting Officer and indicate the nature of such variations.

1.4.2 Data Loss, Corruption, and Error

Transfer of GFM files may result in corrupted files resulting in data loss and errors. Use of GFM files at own risk. Verify data integrity upon receipt and request a replacement if necessary. Make any adjustment in file structure, format, or software version as needed to make GFM compatible with computer systems and/or software to meet the requirements of the contract.

\*\*\*\*\*  
NOTE: Edit the paragraph below if production of a final model is a requirement on this project.  
Delete the paragraph below if BIM is not a requirement on the project.  
\*\*\*\*\*

[1.4.3 Modeling Completeness and Quality

The Government makes no guarantee that the GFM provide the level of completeness or quality as required by the contract. Further, the Government makes no guarantee that identified variations will be corrected upon notification.

]1.5 SUBMITTALS

\*\*\*\*\*  
NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list, and corresponding submittal items in the text, to reflect only the submittals required for the project. The Guide Specification

technical editors have classified those items that require Government approval, due to their complexity or criticality, with a "G." Generally, other submittal items can be reviewed by the Contractor's Quality Control System. Only add a "G" to an item, if the submittal is sufficiently important or complex in context of the project.

For Army projects, fill in the empty brackets following the "G" classification, with a code of up to three characters to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

The "S" classification indicates submittals required as proof of compliance for sustainability Guiding Principles Validation or Third Party Certification and as described in Section 01 33 00 SUBMITTAL PROCEDURES.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

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NOTE: For Navy Design-Build projects, delete 01 33 00 SUBMITTAL PROCEDURES, and replace with UFGS 01 33 00.05 20 CONSTRUCTION SUBMITTAL PROCEDURES and UFGS 01 33 10.05 20 DESIGN SUBMITTAL PROCEDURES.

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Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are [for Contractor Quality Control approval.][for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

Warranty Management Plan

Warranty Tags

Final Cleaning

Spare Parts Data

SD-08 Manufacturer's Instructions

Posted Instructions



SD-10 Operation and Maintenance Data

Operation and Maintenance Manuals; G[, [\_\_\_\_\_]]

SD-11 Closeout Submittals

As-Built Drawings; G[, [\_\_\_\_\_]]

Record Drawings; G[, [\_\_\_\_\_]]

Record Model; G[, [\_\_\_\_\_]]

As-Built Record of Equipment and Materials

Final Approved Shop Drawings; G[, [\_\_\_\_\_]]

Construction Contract Specifications; G[, [\_\_\_\_\_]]

Certification of EPA Designated Items; G[, [\_\_\_\_\_]]

Certification Of USDA Designated Items; G[, [\_\_\_\_\_]]

Interim DD FORM 1354; G[, [\_\_\_\_\_]]

Checklist for DD FORM 1354; G[, [\_\_\_\_\_]]

High Performance and Sustainable Building (HPSB) Checklist; G

1.6 SPARE PARTS DATA

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**NOTE: Following sentence contains tailoring for  
NAVFAC NW for four copies.**  
\*\*\*\*\*

Submit [two][\_\_\_\_\_][four] copies of the Spare Parts Data list.

- a. Indicate manufacturer's name, part number, and stock level required for test and balance, pre-commissioning, maintenance and repair activities. List those items that may be standard to the normal maintenance of the system.

\*\*\*\*\*  
**NOTE: Use this tailored paragraph for ARMY and NASA  
projects only. Spare parts are not permitted to be  
provided for Navy projects.**  
\*\*\*\*\*

- b. At acceptance of commissioning, ensure the required stock level is supplied as indicated in subparagraph a for maintenance and repair activities through the facilities warranty period. Provision of spare parts does not relieve the Contractor of responsibilities listed under the contract guarantee provisions.

1.7 QUALITY CONTROL

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**NOTE: This subpart is tailored for ARMY and NASA  
use only. Do not use this paragraph for NAVY**  
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projects.

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Additions and corrections to the contract drawings must be equal in quality and detail to that of the originals. Line colors, line weights, lettering, layering conventions, and symbols must [conform to ERDC/ITL TR-12-6][be the same as the original line colors, line weights, lettering, layering conventions, and symbols].

1.8 WARRANTY MANAGEMENT

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NOTE: A warranty package based on a cost/benefit determination will be established with the customer at the beginning of a project. Coordinate with the customer regarding special warranty requirements and options.

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NOTE: Use four sets for NAVFAC NW.

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1.8.1 Warranty Management Plan

Develop a warranty management plan which contains information relevant to FAR 52.246-21 Warranty of Construction. At least 30 days before the planned pre-warranty conference, submit [one set] [[\_\_\_\_\_]][four sets] of the warranty management plan. Include within the warranty management plan all required actions and documents to assure that the Government receives all warranties to which it is entitled. The plan narrative must contain sufficient detail to render it suitable for use by future maintenance and repair personnel, whether tradesmen, or of engineering background, not necessarily familiar with this contract. The term "status" as indicated below must include due date and whether item has been submitted or was accomplished. Submit warranty information, made available during the construction phase, to the Contracting Officer for approval prior to each monthly pay estimate. Assemble approved information in a binder and turn over to the Government upon acceptance of the work. The construction warranty period must begin on the date of project acceptance and continue for the full product warranty period. Conduct a joint 4 month and 9 month warranty inspection, measured from time of acceptance; with the Contractor, Contracting Officer and the Customer Representative. The warranty management plan must include, but is not limited to, the following:

- a. Roles and responsibilities of personnel associated with the warranty process, including points of contact and telephone numbers within the organizations of the Contractors, subcontractors, manufacturers or suppliers involved.
- b. For each warranty, the name, address, telephone number, and e-mail of each of the guarantor's representatives nearest to the project location.
- c. A list and status of delivery of Certificates of Warranty for extended warranty items, including roofs, HVAC balancing, pumps, motors, transformers, and for commissioned systems, such as fire protection and alarm systems, sprinkler systems, and lightning protection systems.

- d. **As-Built Record of Equipment and Materials** list for each warranted equipment, item, feature of construction or system indicating:
  - (1) Name of item.
  - (2) Model and serial numbers.
  - (3) Location where installed.
  - (4) Name and phone numbers of manufacturers or suppliers.
  - (5) Names, addresses and telephone numbers of sources of spare parts.
  - (6) Warranties and terms of warranty. Include one-year overall warranty of construction, including the starting date of warranty of construction. Items which have warranties longer than one year must be indicated with separate warranty expiration dates.
  - (7) Cross-reference to warranty certificates as applicable.
  - (8) Starting point and duration of warranty period.
  - (9) Summary of maintenance procedures required to continue the warranty in force.
  - (10) Cross-reference to specific pertinent Operation and Maintenance manuals.
  - (11) Organization, names and phone numbers of persons to call for warranty service.
  - (12) Typical response time and repair time expected for various warranted equipment.
- e. The plans for attendance at the 4 and 9 month post-construction warranty inspections conducted by the Government.
- f. Procedure and status of tagging of equipment covered by warranties longer than one year.
- g. Copies of **instructions** to be posted near selected pieces of equipment where operation is critical for warranty or safety reasons.

1.8.2 Performance Bond

\*\*\*\*\*  
**NOTE: Use the bracketed item if the bond must extend beyond the construction period; coordinate requirement with the Contracting Officer.**  
 \*\*\*\*\*

The Performance Bond [must remain effective throughout the construction and warranty period] [\_\_\_\_\_].

- a. In the event the Contractor fails to commence and diligently pursue any construction warranty work required, the Contracting Officer will have the work performed by others, and after completion of the work, will charge the remaining construction warranty funds of expenses incurred by the Government while performing the work, including, but not limited to administrative expenses.
- b. In the event sufficient funds are not available to cover the construction warranty work performed by the Government at the Contractor's expense, the Contracting Officer will have the right to recoup expenses from the bonding company.
- c. Following oral or written notification of required construction warranty repair work, respond in a timely manner. Written verification will follow oral instructions. Failure to respond will

be cause for the Contracting Officer to proceed against the Contractor.

1.8.3 Pre-Warranty Conference

Prior to contract completion, and at a time designated by the Contracting Officer, meet with the Contracting Officer to develop a mutual understanding with respect to the requirements of this section. At this meeting, establish and review communication procedures for Contractor notification of construction warranty defects, priorities with respect to the type of defect, reasonable time required for Contractor response, and other details deemed necessary by the Contracting Officer for the execution of the construction warranty. In connection with these requirements and at the time of the Contractor's quality control completion inspection, furnish the name, telephone number and address of a licensed and bonded company which is authorized to initiate and pursue construction warranty work action on behalf of the Contractor. This point of contact must be located within the local service area of the warranted construction, be continuously available, and be responsive to Government inquiry on warranty work action and status. This requirement does not relieve the Contractor of any of its responsibilities in connection with other portions of this provision.

1.8.4 Contractor's Response to Construction Warranty Service Requirements

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**NOTE: This subpart is tailored for ARMY and NASA only. Delete this paragraph for NAVY projects.**  
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Following oral or written notification by the Contracting Officer, respond to construction warranty service requirements in accordance with the "Construction Warranty Service Priority List" and the three categories of priorities listed below. Submit a report on any warranty item that has been repaired during the warranty period. Include within the report the cause of the problem, date reported, corrective action taken, and when the repair was completed. If the Contractor does not perform the construction warranty within the timeframe specified, the Government will perform the work and back charge the construction warranty payment item established.

- a. First Priority Code 1. Perform onsite inspection to evaluate situation, and determine course of action within 4 hours, initiate work within 6 hours and work continuously to completion or relief.
- b. Second Priority Code 2. Perform onsite inspection to evaluate situation, and determine course of action within 8 hours, initiate work within 24 hours and work continuously to completion or relief.
- c. Third Priority Code 3. All other work to be initiated within 3 work days and work continuously to completion or relief.
- d. The "Construction Warranty Service Priority List" is as follows:

- Code 1-Life Safety Systems
  - (1) Fire suppression systems.
  - (2) Fire alarm system(s) in place in the building.

- Code 1-Air Conditioning Systems
  - (1) Recreational support.
  - (2) Air conditioning leak in part of building, if causing damage.

(3) Air conditioning system not cooling properly.

Code 1-Doors

- (1) Overhead doors not operational, causing a security, fire, or safety problem.
- (2) Interior, exterior personnel doors or hardware, not functioning properly, causing a security, fire, or safety problem.

Code 3-Doors

- (1) Overhead doors not operational.
- (2) Interior/exterior personnel doors or hardware not functioning properly.

Code 1-Electrical

- (1) Power failure (entire area or any building operational after 1600 hours).
- (2) Security lights
- (3) Smoke detectors

Code 2-Electrical

- (1) Power failure (no power to a room or part of building).
- (2) Receptacle and lights (in a room or part of building).

Code 3-Electrical

Street lights.

Code 1-Gas

- (1) Leaks and breaks.
- (2) No gas to family housing unit or cantonment area.

Code 1-Heat

- (1) Area power failure affecting heat.
- (2) Heater in unit not working.

Code 2-Kitchen Equipment

- (1) Dishwasher not operating properly.
- (2) All other equipment hampering preparation of a meal.

Code 1-Plumbing

- (1) Hot water heater failure.
- (2) Leaking water supply pipes.

Code 2-Plumbing

- (1) Flush valves not operating properly.
- (2) Fixture drain, supply line to commode, or any water pipe leaking.
- (3) Commode leaking at base.

Code 3 -Plumbing

Leaky faucets.

Code 3-Interior

- (1) Floors damaged.
- (2) Paint chipping or peeling.
- (3) Casework.

Code 1-Roof Leaks

Temporary repairs will be made where major damage to property is occurring.

Code 2-Roof Leaks

Where major damage to property is not occurring, check for location of leak during rain and complete repairs on a Code 2 basis.

Code 2-Water (Exterior)

No water to facility.

Code 2-Water (Hot)

No hot water in portion of building listed.

Code 3-All other work not listed above.

1.8.5 Warranty Tags

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**NOTE: Paragraph below contains tailoring for NAVFAC  
 NW for four copies.**  
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At the time of installation, tag each warranted item with a durable, oil and water resistant tag approved by the Contracting Officer. Attach each tag with a copper wire and spray with a silicone waterproof coating. Also, submit [two][\_\_\_\_][four] record copies of the warranty tags showing the layout and design. The date of acceptance and the QC signature must remain blank until the project is accepted for beneficial occupancy. Show the following information on the tag.

Type of product/material	
Model number	
Serial number	
Contract number	
Warranty period from/to	
Inspector's signature	
Construction Contractor	
Address	
Telephone number	
Warranty contact	
Address	
Telephone number	

Warranty response time priority code	
WARNING - PROJECT PERSONNEL TO PERFORM ONLY OPERATIONAL MAINTENANCE DURING THE WARRANTY PERIOD.	

PART 2 PRODUCTS

2.1 RECORD DRAWINGS

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**NOTE: This paragraph is tailored for ARMY and NASA only. Do not use for NAVY projects.**  
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**NOTE: Use and edit this paragraph to specify CAD files compatible with the customers CAD system.**  
 \*\*\*\*\*

Prepare the CAD drawing files in AutoCAD Release [2013][\_\_\_\_]MicroStation [J][V8][\_\_\_\_] format compatible with a [Windows 7][\_\_\_\_] operating system.

2.1.1 Additional Drawings

If additional drawings are required, prepare them using the specified electronic file format applying [the same graphic standards specified for original drawings][ERDC/ITL TR-12-6 and ERDC/ITL TR-12-1]. The title block and drawing border to be used for any new final record drawings must be identical to that used on the contract drawings.

2.1.1.1 Sheet Numbers and File Names

If a sheet needs to be added between two sequential sheets, append a Supplemental Drawing Designator in accordance with ERDC/ITL TR-12-6 Adding a drawing sheet, and ERDC/ITL TR-12-1 Adding or deleting drawing sheets and index sheet procedures.

[2.2 ADVANCED MODELING PACKAGE

\*\*\*\*\*  
**NOTE: This paragraph is tailored for Army.**  
  
**Delete this section if Advanced BIM Modeling is not required on the project.**  
  
**Delete item (f): If exports from the Model are not required to as a part of the contract requirements for the project.**  
 \*\*\*\*\*

For each Advanced Modeling Package submittal for both the Interim Record Model Package and the Final Record Model Package, submit in accordance with ERDC/ITL TR-12-6 [and in accordance with Section 01 33 16.00 10 DESIGN DATA (DESIGN AFTER AWARD)] and also provide the following items:

- a. Advanced Modeling Pxp: Provide an electronic copy of the most current

approved version of the project Advanced Modeling PxP.

- b. **Electronic Files:** Provide an electronic list (.txt file or similar), of all submitted electronic files including a description, directory, and file name for each file submitted. Identify which files have been produced from the Model and Facility Data. For all sheet files, include a list of the sheet titles and sheet numbers.
- c. **Advanced Modeling Submittal Checklist:** Complete the USACE BIM/CIM Advanced Modeling Submittal Checklist and include with each submittal. Download the Checklist from the USACE CAD/BIM Technology Center website.
- d. **Advanced Modeling Files:** Provide all native Advanced Modeling files associated with the production of the contract drawings and associated as-modeled drawings. Update and maintain in compliance with the Advanced Modeling formatting, content requirement, and standards in [Section 01 33 16.00 10 DESIGN DATA (DESIGN AFTER AWARD)] [\_\_\_\_\_], in order to yield a complete and coordinated document package.
- e. **Quality Control (QC) Reports:** Provide electronic PDFs of all QC reports and checklist utilized to ensure full compliance with the contract requirements and standards.
- [ f. **CAD Exports of BIM-Generated Sheets and Drawings:** Provide supplemental 2D CAD exports from the project BIM model as needed to demonstrate compliance with contract requirements. Export all contract drawings sheets to the CAD format(s) defined in Section 01 33 16.00 10 DESIGN DATA(DESIGN AFTER AWARD).]

][2.3 CERTIFICATION OF EPA DESIGNATED ITEMS

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**NOTE: This paragraph addresses requirements for Certification of EPA Designated Items.**

**By signing this contract the Offeror is certifying that the percentage of recovered/recycled materials for EPA Designated items delivered or used in the performance of this contract will meet the minimum amount required in accordance with the FAR references in the contract documents.**

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Submit the [Certification of EPA Designated Items](#) as required by FAR 52.223-9 Estimate of Percentage of Recovered Material Content for EPA Designated Items and FAR 52-223-17 Affirmative Procurement of EPA designated items in Service and Construction Contracts. Include on the certification form the following information: project name, project number, Contractor name, license number, Contractor address, and certification. The certification will read as follows and be signed and dated by the Contractor. ["I hereby certify the information provided herein is accurate and that the requisition/procurement of all materials listed on this form comply with current EPA standards for recycled/recovered materials content. The following exemptions may apply to the non-procurement of recycled/recovered content materials:

- a. The product does not meet appropriate performance standards;



- b. The product is not available within a reasonable time frame;
- c. The product is not available competitively (from two or more sources);
- d. The product is only available at an unreasonable price (compared with a comparable non-recycled content product)."[\_\_\_\_\_]

Record each product used in the project that has a requirement or option of containing recycled content in accordance with SECTION 01 33 29 SUSTAINABILITY REQUIREMENTS AND REPORTING, noting total price, total value of post-industrial recycled content, total value of post-consumer recycled content, exemptions (a, b, c, or d, as indicated), and comments. Recycled content values may be determined by weight or volume percent, but must be consistent throughout.

]2.4 CERTIFICATION OF USDA DESIGNATED ITEMS

\*\*\*\*\*

**NOTE: This paragraph addresses requirements for Certification of USDA Designated Items.**

**By signing this contract the Offeror is certifying that the percentage of Biobased materials for USDA Designated items delivered or used in the performance of this contract will meet the minimum amount required in accordance with the FAR references in the contract documents.**

\*\*\*\*\*

Submit the [Certification of USDA Designated Items](#) as required by FAR 52-223-1 Bio-based Product Certifications and FAR 52.223-2 Affirmative Procurement of Biobased Products Under Service and Construction Contracts. Include on the certification form the following information: project name, project number, Contractor name, license number, Contractor address, and certification. The certification will read as follows and be signed and dated by the Contractor. ["I hereby certify the information provided herein is accurate and that the requisition/procurement of all materials listed on this form comply with current USDA standards for biobased materials content. The following exemptions may apply to the non-procurement of biobased content materials:

- a. The product does not meet appropriate performance standards;
- b. The product is not available within a reasonable time frame;
- c. The product is not available competitively (from two or more sources);
- d. The product is only available at an unreasonable price (compared with a comparable bio-based content product)."[\_\_\_\_\_]

Record each product used in the project that has a requirement or option of containing biobased content in accordance with SECTION 01 33 29 SUSTAINABILITY REQUIREMENTS AND REPORTING, noting total price, total value of post-industrial recycled content, total value of post-consumer recycled content, [total value of biobased content,] exemptions (a, b, c, or d, as indicated), and comments. Biobased content values may be determined by weight or volume percent, but must be consistent throughout.

## 2.5 PDF AS-BUILT FILES

\*\*\*\*\*  
**NOTE: This paragraph is tailored for ARMY.**  
\*\*\*\*\*

Provide electronic PDF "plots" of all contract drawings sheets associated with the as-built drawing submittal. Compile and organize the PDF set to match the contract drawings. Bookmark and label the pages of the PDF file in accordance with Section 01 33 16.00 10 DESIGN DATA (DESIGN AFTER AWARD).

## 2.6 REDLINES AND MARKUPS

\*\*\*\*\*  
**NOTE: This paragraph is tailored for ARMY.**  
\*\*\*\*\*

Provide PDFs of the current working redlines and/or markups complying with the as-builts drawing and markup requirements contained in this specification.

## [2.7 GEO-DATA-BASE FILES

\*\*\*\*\*  
**NOTE: This paragraph is tailored for ARMY.**

**Delete this requirement if Advanced Modeling is not a requirement in this project.**

\*\*\*\*\*

Provide a SDSFIE/FGDC GeoReferenced personal GeoDataBase. For all information outside of the building walls, provide a personal GeoDataBase in .mdb format using the latest version of Spatial Data Standard for Facilities, Infrastructure, and Environment (SDSFIE) as the database structure. Provide a shell database to define the projection and database structure.

For all drawings within and including the exterior walls, utilize the advanced modeling formats described and referenced herein. Provide a short GeoDataBase read-me file explaining the deliverable. The read-me file will include a description of the software used to create the data, projection, and include the attribute tables used.

## ]2.8 AS-BUILT OR ADVANCED MODELING RE-SUBMISSION REQUIREMENTS

\*\*\*\*\*  
**NOTE: This paragraph is tailored for ARMY.**  
\*\*\*\*\*

If elements of an as-built submittal or advanced modeling package are rejected, provide the following for each re-submission, in addition to any information required in Section 01 33 00 SUBMITTAL PROCEDURES:

- a. Re-submit all components required under paragraph As-Builts or Advanced Modeling Package, including a new Advanced Modeling Submittal Checklist and updated content in response to Government comments.
- b. Provide a copy of all Government review comments.

- c. Provide a disposition/response to each Government review comment for a back-check of the re-submission deliverable.

PART 3 EXECUTION

3.1 AS-BUILT DRAWINGS

Provide and maintain two black line print copies of the PDF contract drawings for As-Built Drawings. Maintain the as-builts throughout construction as red-lined hard copies on site[ and][ or] red-lined PDF files. Submit As-Built Drawings 30 days prior to Beneficial Occupancy Date (BOD).

3.1.1 Markup Guidelines

\*\*\*\*\*  
**NOTE: The following information is provided to improve the quality of the markup prints and facilitate preparation of final as-built drawings. The most important guideline is that the markup changes on the prints are complete and understandable. Complete and understandable markup prints will minimize effort to transfer information to CAD files.**  
\*\*\*\*\*

Make comments and markup the drawings complete without reference to letters, memos, or materials that are not part of the As-Built drawing. Show what was changed, how it was changed, where item(s) were relocated and change related details. These working as-built markup prints must be neat, legible and accurate as follows:

- a. Use base colors of red, green, and blue. Color code for changes as follows:
  - (1) Special (Blue) - Items requiring special information, coordination, or special detailing or detailing notes.
  - (2) Deletions (Red) - Over-strike deleted graphic items (lines), lettering in notes and leaders.
  - (3) Additions (Green) - Added items, lettering in notes and leaders.
- b. Provide a legend if colors other than the "base" colors of red, green, and blue are used.
- c. Add and denote any additional equipment or material facilities, service lines, incorporated under As-Built Revisions if not already shown in legend.
- d. Use frequent written explanations on markup drawings to describe changes. Do not totally rely on graphic means to convey the revision.
- e. Use legible lettering and precise and clear digital values when marking prints. Clarify ambiguities concerning the nature and application of change involved.
- f. Wherever a revision is made, also make changes to related section views, details, legend, profiles, plans and elevation views,

schedules, notes and call out designations, and mark accordingly to avoid conflicting data on all other sheets.

- g. For deletions, cross out all features, data and captions that relate to that revision.
- h. For changes on small-scale drawings and in restricted areas, provide large-scale inserts, with leaders to the applicable location.
- i. Indicate one of the following when attaching a print or sketch to a markup print:
  - 1) Add an entire drawing to contract drawings
  - 2) Change the contract drawing to show changes on the drawing.
  - 3) Provided for reference only to further detail the initial design.
- j. Incorporate all shop and fabrication drawings into the markup drawings.

### 3.1.2 As-Built Drawings Content

\*\*\*\*\*  
**NOTE: The following subpart contains tailoring for ARMY and NASA. For Navy, only use the last sentence in paragraph below, and the items following, which are not tailored.**  
\*\*\*\*\*

Revise [As-Built Drawings][ and][ or][ red-lined PDF files] in accordance with ERDC/ITL TR-12-1[ and ][ERDC/ITL TR-12-6]. Keep these working as-built markup drawings current on a weekly basis and at least one set available on the jobsite at all times. Changes from the contract drawings which are made during construction or additional information which might be uncovered in the course of construction must be accurately and neatly recorded as they occur by means of details and notes. Submit the working as-built markup drawings for approval prior to submission of each monthly pay estimate. For failure to maintain the working and final record drawings as specified herein, the Contracting Officer will withhold [10][\_\_\_\_\_] percent of the monthly progress payment until approval of updated drawings. Show on the as-built drawings, but not limited to, the following information:

- a. The actual location, kinds and sizes of all sub-surface utility lines. In order that the location of these lines and appurtenances may be determined in the event the surface openings or indicators become covered over or obscured, show by offset dimensions to two permanently fixed surface features the end of each run including each change in direction on the record drawings. Locate valves, splice boxes and similar appurtenances by dimensioning along the utility run from a reference point. Also record the average depth below the surface of each run.
- b. The location and dimensions of any changes within the building structure.
- c. Layout and schematic drawings of electrical circuits and piping.
- d. Correct grade, elevations, cross section, or alignment of roads,

earthwork, structures or utilities if any changes were made from contract plans.

- e. Changes in details of design or additional information obtained from working drawings specified to be prepared or furnished by the Contractor; including but not limited to shop drawings, fabrication, erection, installation plans and placing details, pipe sizes, insulation material, dimensions of equipment, and foundations.
- f. The topography, invert elevations and grades of drainage installed or affected as part of the project construction.
- g. Changes or Revisions which result from the final inspection.
- h. Where contract drawings or specifications present options, show only the option selected for construction on the working as-built markup drawings.
- i. If borrow material for this project is from sources on Government property, or if Government property is used as a spoil area, furnish a contour map of the final borrow pit/spoil area elevations.
- j. Systems designed or enhanced by the Contractor, such as HVAC controls, fire alarm, fire sprinkler, and irrigation systems.
- k. Changes in location of equipment and architectural features.
- l. Modifications and compliance with FC 1-300-09N procedures.
- m. Actual location of anchors, construction and control joints, etc., in concrete.
- n. Unusual or uncharted obstructions that are encountered in the contract work area during construction.
- o. Location, extent, thickness, and size of stone protection particularly where it will be normally submerged by water.

### 3.2 RECORD DRAWING FILES

\*\*\*\*\*  
NOTE: Use this paragraph for ARMY and NASA only.  
Do not use for NAVY projects. Paragraph is tailored  
for ARMY and NASA.  
\*\*\*\*\*

\*\*\*\*\*  
NOTE: Edit this paragraph to specify CAD drawings  
compatible with the customer's CAD system, providing  
the version where applicable.  
\*\*\*\*\*

If additional drawings are required, prepare them using the specified electronic file format applying [the same graphic standards specified for original drawings][ERDC/ITL TR-12-6 and ERDC/ITL TR-12-1]. The title block and drawing border to be used for any new final record drawings must be identical to that used on the contract drawings. Accomplish additions and corrections to the contract drawings using CAD files. Provide all program files and hardware necessary to prepare final PDF record

drawings. The Contracting Officer will review final PDF record drawings for accuracy and return them to the Contractor for required corrections, changes, additions, and deletions.

### 3.2.1 Rename the CAD Drawing files

Rename the CAD Drawing files using the contract number as the Project Code field,(e.g., W91238-15-C-10A-102.DWGDGN) as instructed in the Pre-Construction conference. Use only those renamed files for the Marked-up changes. Make all changes on the layer/level as the original item.

- a. For AutoCAD files (DWG), enter all as-built delta changes and notations on the AS-BUILT layer. MicroStation files (DGN), enter all as-built delta changes and notations on:
  - Level #63
  - Level/Layer Name contains: ANNO-REVS
  - Level/Layer Description: Revisions
- b. When final revisions have been completed, show the wording "RECORD DRAWING AS-BUILTS" followed by the name of the Contractor in letters at least 5 mm 3/16 inch high on the cover sheet drawing. Date RECORD DRAWING AS-BUILTS" drawing revisions in the revision block.
- c. Within [1020][\_\_\_\_\_] days after Government approval of all of the working record drawings for a phase of work, prepare the final CAD record drawings for that phase of work and submit PDF drawing files and two sets of prints for review and approval. The Government will promptly return one set of prints annotated with any necessary corrections. Within [710][\_\_\_\_\_] days revise the CAD files accordingly at no additional cost and submit one set of final prints for the completed phase of work to the Government. Within [1020][\_\_\_\_\_] days of substantial completion of all phases of work, submit the final record drawing package for the entire project. Submit one set of electronic CAD files, and one set of the approved working record PDF and or programfiles with two sets of prints. The CAD files must be complete in all details and identical in form and function to the CAD drawing files supplied by the Government. Prepare AutoCAD files for transmittal using e-Transmit. Prepare MicroStation files for transmittal using the Packager (Archive). Make any transactions or adjustments necessary to accomplish this. The Government reserves the right to reject any drawing files it deems incompatible with the customer's CAD system. Paper prints, drawing files and storage media submitted will become the property of the Government upon final approval. Failure to submit final record PDF drawing files, CAD files and marked prints as specified will be cause for withholding any payment due under this contract. Approval and acceptance of final record drawings must be accomplished before final payment is made.

### 3.3 RECORD DRAWINGS

\*\*\*\*\*  
**NOTE: Use the following paragraph for Navy Projects only. Only use this paragraph if Contractor is providing the Record Drawings. Paragraph is tailored for NAVY.**  
\*\*\*\*\*

Prepare and provide Record Drawings and Source Documents in accordance with FC 1-300-09N. Provide four copies of Record Drawings and Documents on separate CDs or DVDs [30][\_\_\_\_\_] days after BOD.

\*\*\*\*\*  
NOTE: Use the following paragraphs for ARMY and NASA projects only. Do not use for NAVY projects. Paragraphs are tailored for ARMY and NASA.  
\*\*\*\*\*

\*\*\*\*\*  
NOTE: The USACE policy on Record (As-Built) drawings is as follows:

- a. Method of Preparation for DoD Projects. The construction Contractor must prepare the final Record drawings in PDF from the CAD files.
- b. Method of Preparation for Civil Works Projects. The preferred method of preparing the final Record drawings is by the construction Contractor. The management plan for the project must justify the preparation of the final Record drawings by any other method, such as by in-house personnel. Two such exceptions are "emergency construction" and operations work performed with hired labor. Revise the following specification paragraphs if as-builts are not to be done by the Contractor.
- c. Customer Coordination. Discuss the method of producing the record drawings and format with the customer at the beginning of a project, and record it in the Memorandum of Understanding with the customer (if applicable) and the Project Management Plan.

\*\*\*\*\*

Prepare final record drawings after the completion of each definable [feature][phase] of work as listed in the Contractor Quality Control Plan (such as Foundations, Utilities, or Structural Steel as appropriate for the project). Transfer the changes from the approved working as-built markup drawings to the original electronic CAD drawing files. Modify the as-built CAD drawing files to correctly show the features of the project as-built by bringing the working CAD drawing set into agreement with approved working as-built markup drawings, and adding such additional drawings as may be necessary. Refer to ERDC/ITL TR-12-1. Jointly review the working as-built markup drawings with printouts from working as-built CAD drawing PDF files for accuracy and completeness. Monthly review of working as-built CAD drawing PDF file printouts must cover all sheets revised since the previous review. These PDF drawing files are part of the permanent records of this project. Any drawings damaged or lost must be satisfactorily replaced at no expense to the Government.

Drawing revisions (include within change order price the cost to change working and final record drawings to reflect revisions) and compliance with the following procedures.

- a. Follow directions in the revision for posting descriptive changes.

- b. The revision delta size must be 8 mm 5/16 inch unless the area where the delta is to be placed is crowded. Use a smaller size delta for crowded areas.
- c. Place a revision delta at the location of each deletion.
- d. For new details or sections which are added to a drawing, place a revision delta by the detail or section title.
- e. For minor changes, place a revision delta by the area changed on the drawing (each location).
- f. For major changes to a drawing, place a revision delta by the title of the affected plan, section, or detail at each location.
- g. For changes to schedules or drawings, place a revision delta either by the schedule heading or by the change in the schedule.

### 3.3.1 Final Record Drawing Package

\*\*\*\*\*  
**NOTE: This subpart is tailored for ARMY and NASA only. Do not use on NAVY projects.**  
 \*\*\*\*\*

Submit the final record PDF and CAD drawings package for the entire project within 20 days of substantial completion of all phases of work. Submit one set of ANSI D size PDF and CAD files, two sets of ANSI D size prints and one set of the approved working record drawings. The package must be complete in all details and identical in form and function to the contract drawing files supplied by the Government.

### 3.4 FINAL APPROVED SHOP DRAWINGS

\*\*\*\*\*  
**NOTE: This paragraph is tailored for ARMY and NASA only. Do not use for NAVY projects. Delete this subpart if Section 01 78 23 OPERATION AND MAINTENANCE DATA is in the job.**  
 \*\*\*\*\*

Submit final approved project shop drawings [30][\_\_\_\_\_] days after transfer of the completed facility.

### 3.5 CONSTRUCTION CONTRACT SPECIFICATIONS

\*\*\*\*\*  
**NOTE: This paragraph is tailored for ARMY and NASA projects. Do not use for NAVY projects.**  
 \*\*\*\*\*

Submit final PDF file record construction contract specifications, including revisions thereto, [30][\_\_\_\_\_] days after transfer of the completed facility.

### 3.6 AS-BUILT RECORD OF EQUIPMENT AND MATERIALS

\*\*\*\*\*



NOTE: This subpart is tailored for ARMY and NASA use only. Do not use for NAVY projects.

\*\*\*\*\*

\*\*\*\*\*

NOTE: This paragraph is intended to provide data on equipment and materials incorporated in the construction of the project that cannot readily be determined after completion of construction. The data is expected to be of value for future maintenance, alteration, and repair work. The designer should predetermine the items on which data is required and list them in the DESCRIPTION column of the following form. A typical list of items would include such things as: roofing, insulation, and special wall coverings.

\*\*\*\*\*

Furnish [one copy][[\_\_\_\_\_]copies] of preliminary record of equipment and materials used on the project [15][\_\_\_\_\_] days prior to final inspection. This preliminary submittal will be reviewed and returned [2][\_\_\_\_\_] days after final inspection with Government comments. Submit [Two][\_\_\_\_\_] sets of final record of equipment and materials [10][\_\_\_\_\_] days after final inspection. Key the designations to the related area depicted on the contract drawings. List the following data:

RECORD OF DESIGNATED EQUIPMENT AND MATERIALS DATA				
Description	Specification Section	Manufacturer and Catalog, Model, and Serial Number	Composition and Size	Where Used

### 3.7 OPERATION AND MAINTENANCE MANUALS

\*\*\*\*\*

NOTE: For NAVY projects, delete this paragraph if Section 01 78 24.00 20 FACILITY ELECTRONIC OPERATION AND MAINTENANCE SUPPORT INFORMATION (eOMSI) is used. Submittal requirements are in that section.

\*\*\*\*\*

\*\*\*\*\*

NOTE: In the second sentence, option for hard copies is tailored for ARMY. In third sentence, "30" is tailored for the ARMY and "60" and "90" are tailored for the NAVY; choose 60 days for smaller renovations or repair projects, or 90 days for MILCON or Special Projects.

\*\*\*\*\*

Provide project operation and maintenance manuals as specified in Section 01 78 23 OPERATION AND MAINTENANCE DATA. Provide [four ] [\_\_\_\_\_] ]

electronic copies of the Operation and Maintenance Manual files[ and [one][\_\_\_\_\_] hard copy of the Operation and Maintenance Manuals]. Submit to the Contracting Officer for approval within [30][60][90][\_\_\_\_\_] calendar days of the Beneficial Occupancy Date (BOD). Update and resubmit files for final approval at BOD.

3.8 CLEANUP

\*\*\*\*\*  
**NOTE: Parts of this paragraph are tailored for the NAVY only.**  
\*\*\*\*\*

Provide final cleaning in accordance with ASTM E1971 and submit [two] [four] [\_\_\_\_\_] copies of the listing of completed final clean-up items. Leave premises "broom clean." Comply with GS-37 for general purpose cleaning and bathroom cleaning. Use only nonhazardous cleaning materials, including natural cleaning materials, in the final cleanup. Clean interior and exterior glass surfaces exposed to view; remove temporary labels, stains and foreign substances; polish transparent and glossy surfaces; vacuum carpeted and soft surfaces. Clean equipment and fixtures to a sanitary condition. [Clean][Replace] filters of operating equipment and comply with the Indoor Air Quality (IAQ) Management Plan. Clean debris from roofs, gutters, downspouts and drainage systems. Sweep paved areas and rake clean landscaped areas. Remove waste and surplus materials, rubbish and construction facilities from the site. Recycle, salvage, and return construction and demolition waste from project in accordance with Section 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS, and 01 74 19 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL.

[3.8.1 Extraordinary Cleanup Requirements

\*\*\*\*\*  
**NOTE: Do not add information related to facility regulations which are of a routine nature. Include unusual cleanup requirements.**  
\*\*\*\*\*

The following cleanup requirements apply: [\_\_\_\_\_].

]3.9 REAL PROPERTY RECORD

\*\*\*\*\*  
**NOTE: All DoD projects require DD Form 1354 to be completed, made final, and submitted for entry into the applicable service database of real property. The Designer of Record must complete and attach a draft version of DDForm 1354 (with cost data deleted) to the end of this section for subsequent revision by the construction Contractor, or US Naval Construction Forces, whichever is appropriate. Complete procedural instructions for design and construction government forces are provided at the checklist URL below.**  
\*\*\*\*\*

\*\*\*\*\*  
**NOTE: Modify paragraph below if Command requires the activity contracting office to complete the form**  
\*\*\*\*\*

instead of the Contractor.

\*\*\*\*\*

Refer to [UFC 1-300-08](#) for instruction on completing the DD FORM 1354. Contact the Contracting Officer for any project specific information necessary to complete the DD FORM 1354.

### 3.9.1 Interim DD FORM 1354

Near the completion of Project, but a minimum of 60 days prior to final acceptance of the work, complete[, update draft DD FORM 1354 attached to this section,] and submit an accounting of all installed property with [Interim DD FORM 1354](#). Include any additional assets, improvements, and alterations from the Draft DD FORM 1354.

### 3.9.2 Completed DD FORM 1354

[Attach the Real Property receiving Component's completed [High Performance and Sustainable Building \(HPSB\) Checklist](#) for each applicable building to the completed DD 1354, in accordance with Section [01 33 29 SUSTAINABILITY REQUIREMENTS AND REPORTING](#). ]For convenience, a blank fillable PDF DD FORM 1354 may be obtained at the following link:

[www.esd.whs.mil/Portals/54/Documents/DD/forms/dd/dd1354.pdf](http://www.esd.whs.mil/Portals/54/Documents/DD/forms/dd/dd1354.pdf)

Submit the completed [Checklist for DD FORM 1354 of Installed Building Equipment items](#). Attach this list to the updated DD FORM 1354.

-- End of Section --