
GUIDE SPECIFICATION FOR MILITARY CONSTRUCTION

NOTE: This section was last modified by C. Diven,
Mar 05. Revised requirements for Tinker AFB.

SECTION 01040

COORDINATION, FIELD ENGINEERING, AND MEETINGS

PART 1 GENERAL

1.1 REFERENCES

DEPARTMENT OF THE AIR FORCE INSTRUCTION (AFI)

AFI 40 102

Tobacco Use in the Air Force

1.2 SUBMITTALS

NOTE: Submittals must be limited to those necessary
for adequate quality control. The importance of an
item in the project should be one of the primary
factors in determining if a submittal for the item
should be required.

Indicate submittal classification in the blank space
following the name of the item requiring the
submittal by using "G" when the submittal requires
Government approval. Submittals not classified as
"G" will show on the submittal register as
"Information Only". For submittals requiring
Government approval, a code of up to three
characters should be used following the "G"
designation to indicate the approving authority;
codes of "RE" for Resident Engineer approval, "ED"
for Engineering approval, and "AE" for
Architect-Engineer approval are recommended.

Government approval is required for submittals with a "G" designation;
submittals not having a "G" designation are for information only. When
used, a designation following the "G" designation identifies the office
that will review the submittal for the Government. The following shall be
submitted in accordance with Section 01300 SUBMITTAL PROCEDURES:

SD-09 Manufacturer's Field Reports

Survey Field Notes; G, [___].

Promptly upon completing a survey in accordance with paragraph: QUANTITY SURVEYS, the Contractor shall furnish the originals of all field notes and all other records relating to the survey or to the layout of the work to the Contracting Officer, who shall use them as necessary to determine the amount of progress payments. The Contractor shall retain copies of all such material furnished to the Contracting Officer.

1.3 WORK SCHEDULE

Contractor shall work between ___ a.m. and ___ p.m. Monday through Friday unless otherwise directed by the Contracting Officer.

**NOTE: USE THE FOLLOWING PARAGRAPH FOR WORK AT
TINKER AFB, OK. (TAFB SECTION 00700, 5/02)**

1.4 UTILITY OUTAGES AT TINKER AFB, OK

Unless otherwise specified, all utility outages shall be accomplished between 1800 Friday and 0600 Monday. All utility outages shall be coordinated with the Contracting Officer. Utility outages frequently affect more than one facility and require extensive coordination, and shall be requested only after the Contractor has performed all tests and passed required inspections in the specifications and/or the construction drawings. The Contractor shall have on site all tools, equipment and materials required prior to the start of the utility outage. The Contractor shall submit all requests for outages in accordance with paragraph entitled UTILITY OUTAGE COORDINATION.

Use the following paragraphs for all projects.

1.5 UTILITY OUTAGE COORDINATION

1.5.1 Approval

The Contractor shall obtain written permission/approval from the Contracting Officer 21 days prior to:

- (1) Performing any work which will close any runway or street or interrupt any utility service.
- (2) Making any excavation: Any damage to underground utilities, communication lines, etc., will be the responsibility of the Contractor if the approval is not obtained.
- (3) Utility outages: The proposed outage request shall indicate the proposed work and length of outage.

1.5.2 Government Right to Delay

The Government reserves the right to postpone for 7 days, any scheduled outages. There shall be no outages when the outside temperature is

expected to be below 35 degrees F 2 degrees C.

1.5.3 Government Performance

Government personnel shall perform all shutting off and turning on of valves and switches necessary to accomplish scheduled outage.

NOTE: Use the following paragraph for projects on Tinker AFB involving excavations. (TAFB SECTION 00700, 5/02)

1.6 EXCAVATION ON TINKER AFB, OK

Contractor shall be aware that subsurface utilities on Tinker AFB are very congested. Use extreme care in making excavations. Damage to utilities will be handled in accordance with paragraph entitled UTILITY OUTAGE COORDINATION.

1.6.1 Protection of Existing Utilities

Prior to any excavation, the Contractor shall mark with permanent paint or dye all locations of proposed excavation(s) (including all building lines and proposed utility routes) and inform the Contracting Officer in writing that the areas have been marked. The Contractor will go to Base Civil Engineering Division (CE), Building 400, 2nd floor (NW corner) and request a Tinker AFB Civil Engineering Work Clearance Work Sheet, OC-ALC FORM 515. The Contractor is responsible for obtaining the signatures on the Work Sheet for OKIE 1 (for all commercial utilities located on Tinker AFB) and for Base Communications. The Contractor shall deliver the Work Sheet to CE personnel (Building 400). Base personnel will have CE shop personnel visibly mark all locations of known underground utility lines which could be affected by the Contractor's excavation procedures. Upon completion of these procedures, the OC-ALC FORM 515 (known as a "Digging Permit") will be issued to the Contractor. A copy of the combined utility as-built drawings will be attached, and the Contractor shall be responsible for maintaining the markings for the duration of the contract. The OL-ALC FORM 515 shall be maintained at the construction site and made available for inspection by the Government. The Contractor shall begin excavation within 2 weeks from receipt of the OC-ALC FORM 515.

1.6.1.1 Excavation Methods

Excavation may be accomplished by hand or by use of a mechanical digger. Use of a continuous trencher or plow is prohibited unless permission is obtained, in writing, from both the Chief, Engineering Flight and Chief, Operations Flight through the Contracting Officer prior bringing equipment on Base. Use of this equipment without written authorization may result in immediate removal of the Contractor from Tinker AFB.

1.6.1.2 Existing Utility Locations

The Contractor shall be responsible for determining the precise location and depth of existing utility lines by hand excavating from a point 1.83 meters 6 feet on either side of the previously staked utility location, until the line is completely exposed. After all lines are so located and completely exposed to the satisfaction of the Contracting Officer's representative, machine excavation may begin. Machine excavation shall not

be used immediately adjacent to a known unexposed utility.

1.6.2 Excavation Safety Measures

All excavations, trenches, open manholes, etc. shall be properly shored, braced, barricaded or guarded in accordance with the provisions of **Title 29 Code of Federal Regulation, Parts, 1926, "Construction Safety and Health Standards"**. Warning lights or other illumination maintained from sunset to sunup, shall be placed at all excavations which are adjacent to pedestrian or vehicle thoroughfares. Adequate physical protection shall be provided at all remotely located excavations.

**Use the following paragraph for projects where
there are quantity surveys. Quantity surveys may
involve work other than site work.**

1.7 QUANTITY SURVEYS (APR 1984) (FAR 52.236-16)

1.7.1 General

Quantity surveys shall be conducted, and the data derived from these surveys shall be used in computing the quantities of work performed and the actual construction completed and in place.

1.7.2 Conducting Surveys and Computations

The Contractor shall conduct the original and final surveys and surveys for any periods for which progress payments are requested. All these surveys shall be conducted under the direction of a representative of the Contracting Officer, unless the Contracting Officer waives this requirement in a specific instance. The Contractor shall make the computations based on the surveys for any periods for which progress payments are requested. The Government shall make such computations as are necessary to confirm the quantities of work performed or finally in place.

1.7.3 Survey Procedure

Appropriate instrumentation and procedures shall be selected to obtain the precision requirements necessary to meet or exceed Third Order Accuracy standards. Total Station or GPS shall be considered appropriate for performing the survey. The Contractor shall use a field crew experienced in performing the surveys as outlined in the scope of work and capable of responding to and completing work assignments within the critical time schedules allotted for this project. The standard 4 3/4-inch by 7 1/2-inch hardback fieldbook shall be used. The party setup, weather conditions, and date shall be entered at the top of the page for each workday. The original notebook shall be turned in at the completion of the work and shall become the property of the Government. If electronic distance measuring devices and data collectors are used, the hard copy notes shall be provided with X, Y, Z coordinates of the survey data recorded at right angles to established base lines. It is also required that in addition to cross section lines that all breaklines are located and provided as X, Y, Z values and appropriately identified. A digital files in X, Y, Z format shall be provided for all data collected. All natural ground elevations shall be located to the nearest 0.1 foot and hard surfaces to the nearest

0.01 foot.

USE THE FOLLOWING FOR ALL CONTRACTS.

1.8 LAYOUT OF WORK (APR 1984) (FAR 52.236-17)

The Contractor shall lay out his work from Government-established base lines and bench marks indicated on the drawings and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at his own expense, all stakes, templates, platforms, equipment, tools, and materials and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Contracting Officer. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Contracting Officer until authorized to remove them. If such marks are destroyed by the Contractor or through his negligence before their removal is authorized, the Contracting Officer may replace them and deduct the expense of the replacement from any amounts due or to become due to the Contractor.

1.9 MONUMENT REPLACEMENT

1.9.1 General

Government-established horizontal and vertical control monuments that are shown on the drawings, if destroyed shall be reestablished by the Contractor in locations as directed by the Contracting Officer. Control points set by the Contractor for the purpose of reestablishing the monuments and to properly control the work, if destroyed and not reset by the Contractor, shall be reestablished by the Government at the Contractor's expense. Survey shall be performed by a Registered Land Surveyor.

1.9.2 Horizontal Control

Horizontal control shall be based on the State Plane Coordinate System as developed by the National Geodetic Survey. Horizontal control shall originate and close on control points established by the Government.

1.9.3 Vertical Control

Elevations shall originate and close on vertical controls established by the Government. Third Order Accuracy or better shall be maintained for all vertical survey control. Vertical error shall be adjusted for all control markers established throughout each level loop. A transcript of all adjusted vertical marks set and adjusted horizontal marks set, shall be furnished on forms furnished by the Government. (SWD Form 598)

1.9.4 Monuments

Concrete monuments shall be set as control monuments, where required. Horizontal data for monuments is based on NAD 27, and vertical data is based on NGVD 29 in US feet. The monuments shall consist of 6-inch 150 mm -diameter concrete posts of standard mix and a Government-furnished bronze disk flush with top, set at least 2.6 feet 780 mm into solid ground and 0.4 foot 120 mm above the ground surface. A No. 4 18-inch reinforcing bar shall be cast in the top portion of the monument. Each monument shall be identified by stamping the bronze disk with steel dies, indicating thereon

the name of the site and number of the monument. A Government-furnished galvanized U-channel rail steel delineator post, 6.5 feet 1950 mm in length with a USCE sign attached shall be set in concrete within 1 foot of each control monument. Markers which fall in roads or improved areas shall be either buried or a disk set flush in pavement, whichever may be appropriate to the situation. Control monuments shall be referenced by chain distance and angle to at least three objects, such as blazed trees, crosses in solid rock, or other physical features in the immediate vicinity.

NOTE: Use the following paragraph for projects that will have other contractors working in the same area or if there may be a need to coordinate work, staging areas, haul routes, etc. Delete this paragraph if not applicable.

1.10 OTHER CONTRACTORS

(Reference CONTRACT CLAUSE entitled "Other Contracts.") Other Contractors will be working in the project area during construction under this contract. The Contractor shall arrange and perform his work and store his materials in cooperation with other Contractors and as directed by the Contracting Officer. Other Contractors working during this same period of construction are listed as follows:

Contractor	Description of Work	Contract No.
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NOTE: NOTE: USE THE FOLLOWING PARAGRAPH FOR ALL WORK AT TINKER AFB, OK. (TAFB SECTION 00700, 5/02)

1.11 TRAFFIC ON TINKER AFB, OK

All Contractor personnel shall observe Base traffic regulations. Information regarding such regulations shall be requested through the Contracting Officer from a representative of the Chief of Security Police

1.11.1 Truck Traffic Entering Tinker AFB, OK

Tinker AFB Gates 1 (Tinker Gate) and 20 (Lancer Gate), located at Air Depot and Bradley Drive, respectively, are designed to accommodate the standard legal height 13 feet 6 inches)4115 mm for trucks in Oklahoma. Vehicles over this height shall enter Gate 2 (Eaker), 3, 7 (Hruskocy), 21 (Liberator), and 29 (Marauder), located at "F" Avenue, "A" Avenue, Industrial Blvd., Entrance Road "A", and 59th Street, respectively. Due to varying hours of operation of these gates, the Contractor shall coordinate deliveries through the Contracting Officer to facilitate their use.

1.11.2 Gates and Haul Route

The Contractor shall use the gate(s) indicated on the drawings or as directed by the Contracting Officer. Unless otherwise shown or directed by the Contracting Officer, the haul route shall be the most direct route from the gate to the construction site. Haul route(s) shall be approved by the Contracting Officer. Reference Section 01500 for additional haul route requirements.

1.11.3 Street Closure

The Contractor shall maintain at least one lane (at least two lanes on four lane roads) of traffic at all times on all streets, roads, and driveways unless directed by the Contracting Officer.

1.11.4 Utility Street Crossings

Street crossings shall be limited to 7 days maximum for any utility crossing for roadway (includes trenching, compaction, and replacement of existing pavements). The Contractor shall provide steel matting sufficient to carry traffic loading over excavated area.

**NOTE: USE THE FOLLOWING PARAGRAPH FOR ALL CONTRACTS
AT TINKER AFB, OK. (TAFB SECTION 00700, 5/02)**

1.12 BASE SECURITY AT TINKER AFB, OK

Tinker AFB is an active Department of Defense facility and access to certain areas on Tinker AFB is strictly controlled.

The Contractor will be briefed by the Contracting Officer on Base security requirements. The Contractor shall be responsible for ensuring all employees (including employees of subcontractors) adhere to Base security regulations. Refer to Section 01500, paragraph entitled "Issuance of Identification Credentials to Contractor Personnel at Tinker AFB" for additional requirements.

The Contractor shall provide all required barricades and warning devices to protect the work area. In the event that unauthorized personnel trespass on the construction site, the Contracting Officer shall be notified immediately.

The Contractor shall ensure all privately-owned vehicles operated by Contractor or subcontractor personnel are properly registered with Base Security. Registration information shall be obtained from the Contracting Officer.

Contractor and subcontractor personnel shall limit their travel on Base to roads leading directly to the construction site parking, storage areas, and haul routes.

**NOTE: USE THE FOLLOWING PARAGRAPHS FOR ALL CONTRACTS
AT TINKER AFB, OK (TAFB SECTION 00700, 5/02)**

1.13 TOBACCO USE ON TINKER AFB

AFI 40-102 and its supplements prohibit the use of smokeless and smoking tobacco in the work place on Tinker AFB, OK. Unless a "Designated Smoking Area" sign is posted, all areas on Base are considered to be "no smoking" areas. AFI 40-102 further specifies that smoking in areas such as bathrooms, halls, offices, pit areas, break rooms, and aboard Air Force and contract aircraft, shall not be permitted. The Contractor and all

employees, subcontractors and lower-tier subcontractors shall comply with the above AFI regulation.

Contractor personnel shall not smoke atop buildings or in areas where such action is not authorized; in no instance within 50 feet 15.24 meters of liquid fuel storage locations or parked aircraft or in any other area that would constitute a fire and/or explosion hazard. Violation may result in the Contractor being removed from Tinker AFB permanently.

1.14 WELDING, CUTTING, AND BRAZING

The Contractor shall obtain an AF Form 592, USAF Welding, Cutting, and Brazing Permit, from the Contracting Officer prior to use of any welding, cutting, or brazing equipment. This form shall be in the possession at all times of Contractor employees accomplishing the work.

1.15 MATERIAL AND EQUIPMENT DELIVERIES

The Contractor shall furnish information to the supplier as to assignee, contract number, project number, project title, and location (building or other) where material and equipment are to be shipped direct. Material shipped directly to Tinker AFB will not be accepted by Base personnel. Any loss related thereto shall be the responsibility of the Contractor. The supplier shall have all necessary information required by Base Security upon entry to Tinker AFB.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION (NOT APPLICABLE)

-- End of Section --