
 INCH-POUND

 OO-D-2747
 23 March 1991

 SUPERSEDING
 MIL-D-633F(YD)
 20 Apr 1984

FEDERAL SPECIFICATION

DITCHING MACHINES, BOOM TYPE; CRAWLER-MOUNTED, GED AND DED

This specification is approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal Agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers a commercial model gasoline- or diesel-engine-driven, self propelled, boom type, crawler mounted ditching machine.

1.2 Classification.

1.2.1 Classes. Ditching machines covered by this document shall be one of the following classes, as specified (see 6.2).

Class 1 - Gasoline-Engine-Driven
 Class 2 - Diesel-Engine-Driven

1.2.2 Part number designation. Ditching machines covered by this document shall be identified by a part or identifying number (see 6.5).

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation. (see 6.2).

 *Beneficial comments (recommendations, additions, deletions) and any pertinent *
 *data which may be of use in improving this document should be addressed to: *
 *Commanding Officer (Code 156), Naval Construction Battalion Center, Port *
 *Hueneme, CA 93043, by using the self-addressed Standardization Document *
 *Improvement Proposal (DD Form 1426) appearing at the end of this document or *
 *by letter. *

FSC 3895

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OO-D-2747

SPECIFICATIONS

MILITARY

MIL-P-514 - Plate, Identification, Instruction And Marking, Blank.

MIL-T-3351 - Tractor, Full-Track, Low Speed; Tractor Wheeled, Agricultural; and Tractor, Wheeled, Industrial: and Their Attachments, Packaging of.

STANDARDS

MILITARY

MIL-STD-209 - Slings and Tiedown Provisions for Lifting and Tying Down Military Equipment.

(Unless otherwise indicated, copies of federal and military specifications and standards are available from the Navy Publication & Printing, Service Office, Building 4D, NPM DODSSP, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents and publications. The following other Government documents and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation .

DEPARTMENT OF LABOR (DOL)
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

Title 29, CFR, Part 1910.219 - Occupational Safety and Health Standards.

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, DC 20402.)

(Copies of specifications , standards, handbooks, drawings, publications, and other Government documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Non-Government publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are Department of Defense adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issue of the documents which is current on the date of the solicitation (see 6.2).

ASTM

ASTM D 3951 - Packaging, Commercial.

(Application for copies should be addressed to ASTM, 1916 Race Street, Philadelphia, PA 19103.)

OO-D-2747

SOCIETY OF AUTOMOTIVE ENGINEERS, INC. (SAE)

SAE J 534 - Lubrication Fittings.

SAE J 551 - Performance Levels and Methods of Measurement of
Electromagnetic Radiation from Vehicles and Devices
(30-1000 Mhz).

(Application for copies should be addressed to the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096.)

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Description. The ditching machine shall consist of a powerplant, power train, digging boom and chain, buckets and/or cutters, spoil conveyor, framework, and crawlers.

3.1.1 Standard commercial product. The ditching machine shall, as a minimum, be in accordance with the requirements of this document and shall be the manufacturer's standard commercial product. Additional or better features, which are not specifically prohibited by this specification but which are a part of the manufacturer's standard commercial product, shall be included in the ditching machine being furnished. A standard commercial product is a product which has been sold or is being currently offered for sale on the commercial market through advertisements or manufacturer's catalogs, or brochures, and represents the latest production model.

3.2 First article. When specified (see 6.2), the contractor shall furnish one ditching machine of each class included in the contract for first article inspection and approval (see 4.2.1 and 6.4).

3.3 Design and construction. The ditching machine shall be designed to withstand strains, jars, vibrations, and other conditions incidental to shipping, storage, installation, and operation and to permit easy accessibility for maintenance and service in the field. The design shall be such as to prevent conditions which may be hazardous to personnel or deleterious to equipment.

3.4 System of measurement. The dimensions used in this specification are not intended to preclude the use of the metric system of measurement in the fabrication and production of the material, individual parts, and the finished product, provided form, fit, and function requirements are satisfied.

3.5 Safety. All rotating or reciprocating parts and all parts subject to high operational temperatures, that are of such a nature or are so located as to

OO-D-2747

be or become a hazard to the safety of the operating personnel, shall be insulated, enclosed, or guarded to the extent necessary to eliminate the hazard. The ditching machine shall comply with applicable DOL, OSHA regulations in effect at time of manufacture.

3.6 Materials. Materials used shall be free from defects which would adversely affect the performance or maintainability of individual components or of the overall assembly. Materials not specified herein shall be of the same quality used for the intended purpose in commercial practice. Unless otherwise specified herein, all equipment, material, and articles incorporated in the work covered by this specification are to be new and fabricated using materials produced from recovered materials to the maximum extent possible without jeopardizing the intended use. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. Unless otherwise specified, none of the above shall be interpreted to mean that the use of used or rebuilt products are allowed under this specification.

3.7 Interchangeability. All units of the same classification furnished with similar options under a specific contract shall be identical to the extent necessary to insure interchangeability of component parts, assemblies, accessories, and spare parts.

3.8 Ease of maintenance. Design of the ditching machine shall permit ready accessibility to all parts for maintenance and repair in the field by use of conventional general purpose tools associated with ditching machines. Replacement and adjustment of component parts and accessories shall be accomplished with minimum disturbance to other elements of the ditching machine. Accessibility to lubricating oil fill openings, fluid checking devices, and drainplugs shall be provided without the need of removing or adjusting accessories and parts.

3.9 Operational requirements. The ditching machine shall be capable of operating satisfactorily in ambient temperatures from 0 degrees Fahrenheit (oF) up to 125oF.

3.10 Performance. The ditching machine shall be capable of digging into various earth formations a ditch up to 24 inches in width, and (a) not less than 6 feet deep in firm clay soil at a digging rate of not less than 5 feet per minute (fpm), or (b) not less than 8 feet deep in clay-loam soil at a digging rate of not less than 3 fpm, or (c) not less than 6 feet deep in clay-gravel soil at a digging rate of not less than 4 fpm. In addition to the above, the digging machine, when equipped with special digging teeth (see 3.23), shall also be capable of digging coral, frozen, or hard ground at a slower rate of speed. The crowding speed shall be individually selected by the operator. The discharge conveyor shall be capable of depositing spoil in windows at either side of the excavation and at a distance sufficient to prevent re-entry of spoil into the trench. The ditching machine shall have a minimum travel turning radius of not greater than 20 feet, and a maximum transporting height of not more than 146 inches with boom not less than 6 inches above ground.

3.10.1 Travel speeds. The ditching machine shall have infinitely variable forward and reverse speeds or three or more travel speeds forward and one

OO-D-2747

reverse. The maximum forward travel speed shall not be less than 2.7 miles per hour.

3.10.2 Digging speeds. The ditching machine shall have not less than six digging (crowding) speeds ranging from not more than 1 fpm to not less than 6 fpm or have continuously variable digging (crowding) speeds from 0 to not less than 6 fpm at engine governed speed. The crowding or digging speeds shall be so selective as to provide maximum efficiency at all times.

3.11 Digging boom. The digging boom shall be so constructed that the full crowding effort of the machine shall be applied over the entire digging face of the trench sides with down pressure. The boom shall be provided with a safe, accessible and adequate method of adjusting the digging chain. A hydraulic hoist, operating independently of the other drives, shall be provided to enable the operator to accurately regulate the digging depth and to raise the boom into travel position.

3.12 Digging chain. The digging chain shall be mounted on the boom and provided with buckets or cutters. The digging chain shall be so constructed that each bucket or cutter may be removed individually. An overload safety release between the driving mechanism and the digging chain shall be provided. The release mechanism shall be of materials which are not affected by weather or periods of storage, or shall be protected from the weather and fabricated of materials which are not affected by periods of storage. The digging chain shall have means for reversing the direction of travel for cleaning purposes. Means for adjusting the digging chain shall be provided such that adjustments can be made in the field without extensive downtime .

3.13 Buckets. When digging buckets are provided, they shall be of the self-cleaning design which will remove the spoil from the bucket either by centrifugal force, snap action, or positive action of a wiper plate. The ditching machine shall be equipped with buckets and teeth to cut trenches, one at a width of not less than 18 inches, and one at a width of not less than 24 inches. The 24 inch cutting width requirement may be met with bolted-on side cutters. The digging buckets shall be equipped with hard faced or heat treated alloy steel digging teeth of a minimum 420 Brinell hardness at cutting edge. The teeth shall be of the quick interchangeable insert type. Replacement of teeth shall be accomplished without the use of special tools.

3.14 Cutters. When digging cutters are provided, they shall cut trenches, one at a width of not less than 18 inches, and one at a width of not less than 24 inches. The digging cutters shall be equipped with hardened surfaces on the cutting edge with a hardness of Rockwell C 50. The cutters shall be of the interchangeable type.

3.15 Cleanup scraper. Vertical boom type ditching machine, when furnished, shall be equipped with a cleanup scraper (crumbler) which will effectively clean loose spoil spillage from the bottom of the trench. The scraper shall have an automatic trip or hydraulic fold up option from the operator's location to release obstacles.

3.16 Spoil conveyor. The spoil conveyor shall be individually controlled, dischargeable to either side, from the operator's seat, and belt speed so

OO-D-2747

controlled as to provide the correct operational speed to give maximum or minimum discharge. Means shall be provided to align conveyor and pulleys at right angles with center line of belt, when end pulleys are used for tension adjustment.

3.17 Spoil conveyor belt. The spoil conveyor belt shall be of adequate width to handle the spoil while digging at maximum depth and maximum crowding speed. The driven side of the belt shall have an alignment guide molded integral with the belt. The carrying side of the belt shall be either of the cleat or trough type surface.

3.18 Framework. The digging boom, spoil conveyor, and powerplant shall be mounted in a framework fabricated from structural steel and shall be bolted, riveted, welded, or a combination thereof, suitably reinforced and braced to maintain proper alignment of all components through all operations.

3.19 Crawlers. The crawlers shall have smooth faced, forged or rolled steel semigrouser, or grouser type track shoe. Ground bearing area of the crawler tread shall be adequate to insure a bearing pressure of not more than 10 pounds per square inch. Provisions shall be made to adjust for slack due to wear.

3.20 Engine. The Class 1 ditching machine shall be powered by a gasoline engine. The Class 2 ditching machine shall be powered by a diesel engine. The ditching machine shall be powered by the manufacturer's standard commercial engine normally furnished to the commercial market for this size ditching machine. The power and speed to meet the performance requirements of the ditching machine shall not be greater than the continuous rated horsepower and maximum rated engine speed. The engine shall be furnished with an electrical cranking system. The engine shall be furnished with accessories normally equipped on the manufacturer's commercial standard ditching machine.

3.21 Hydraulic system. A complete hydraulic system, including a pump, hydraulic rams, reservoir, pressure relief valve, and all necessary lines and controls, shall be provided to perform all required hydraulic operations. The pump shall be driven by the ditching machine engine.

3.22 Controls. All controls shall be located within easy reach of the operator and shall be readily accessible under all conditions of operation. All controls shall be clearly marked as to use and function.

3.23 Special cutters. When specified (see 6.2), the ditching machine shall be supplied with one set of special cutters for each digging width (see 3.13 and 3.14). The special cutters, which shall facilitate digging in coral, hardpan, or frozen ground, shall be in addition to the buckets or cutters normally supplied. The special cutters shall be equipped with hardened surfaces on the cutting edge with a hardness of Rockwell C 50.

3.24 Lifting and tiedown attachments. When specified (see 6.2), the ditching machine shall be equipped with lifting and tiedown attachments. Lifting and tiedown attachments shall conform to type III of MIL-STD-209. A transportation plate, which shall be of a material which will last and remain legible for the life of the equipment, shall be provided and mechanically attached to the ditching machine. Transportation plates shall be inscribed with

OO-D-2747

a diagram showing the lifting attachments and lifting slings, the capacity of each attachment, and the required length and size of each sling cable. A silhouette of the item furnished showing the center of gravity shall be provided on the transportation plate. A silhouette of the ditching machine showing the center of gravity shall be provided. Tiedown attachments may be identified by stenciling or other suitable marking. Tiedown marking shall clearly indicate that the attachments are intended for the tiedown of the ditching machine on the carrier when shipped.

3.25 Toolbox. When specified (see 6.2), the ditching machine shall be provided with a toolbox made of steel not less than 0.0747 inch nominal thickness (US revised standard gage No. 14). The toolbox shall have a hinged lid, which shall open at least 90 degrees, and a draw bolt of a type that will keep the lid closed when the toolbox is subject to vibration. The toolbox shall be securely fastened to the ditching machine in a protected and accessible location.

3.26 Lubrication. Means for lubrication shall be in accordance with the manufacturer's standard practice. The lubricating points shall be easily visible and accessible. Hydraulic lubrication fittings shall be in accordance with SAE J 534. Where use of high pressure lubricating equipment, 1,000 pound-force per square inch (psi) or higher, will damage grease seals or other parts, a suitable warning shall be affixed to the equipment in a conspicuous location. The unit shall be lubricated prior to delivery with the type of lubricant specified in the owner's manual and grade of lubricant recommended for ambient temperature at the delivery point. The unit shall be conspicuously tagged to identify the lubricants and their temperature range.

3.27 Cleaning, treatment, and painting. Surfaces normally painted in good commercial practice shall be cleaned, treated, and painted as specified herein. The color of the finish coat shall be as specified (see 6.2). Surfaces to be painted shall be cleaned and dried to insure that they are free from contaminants such as oil, grease, welding slag and spatter, loose mill scale, water, dirt, corrosion product, or any other contaminating substances. As soon as practicable after cleaning, and before any corrosion product or other contamination can result, the surfaces shall be prepared or treated to insure the adhesion of the coating system. The painting shall consist of at least one coat of primer and one finish coat. The primer shall be applied to a clean, dry surface as soon as practicable after cleaning and treating. Painting shall be with manufacturer's current processes and the total dry film thickness shall be not less than 2.5 mils over the entire surface. The paint shall be free from runs, sags, orange peel, or other defects.

3.28 Electromagnetic radiation. Electromagnetic radiation from the ditching machine shall not exceed the limits recommended in SAE J 551.

3.29 Identification marking. Identification shall be permanently and legibly marked directly on the ditching machine or on a corrosion resisting metal plate securely attached to the ditching machine by the manufacturer. Identification shall include the manufacturer's model and serial number, name, and trademark to be readily identifiable to the manufacturer.

OO-D-2747

3.30 Instruction plates. Each ditching machine shall be furnished with suitably located, firmly attached instruction plates conforming to MIL-P-514, describing any special or important procedures for operating and servicing the equipment. Plates shall be of a material which will last and remain legible for the life of the equipment.

3.31 Workmanship.

3.31.1 Steel fabrication. The steel used in fabrication shall be free from kinks, sharp bends, and other conditions which would be deleterious to the finished product. Manufacturing processes shall not reduce the strength of the steel to a value less than intended by the design. Manufacturing processes shall be done neatly and accurately. All bends shall be made by controlled means to insure uniformity of size and shape.

3.31.2 Bolted connections. Bolt holes shall be accurately punched or drilled and shall have the burrs removed. Washers or lock washers shall be provided in accordance with good commercial practice, and all bolts, nuts, and screws shall be tight.

3.31.3 Riveted connections. Rivet holes shall be accurately punched or drilled and shall have the burrs removed. Rivets shall be driven with pressure tools and shall completely fill the holes. Rivet heads, when not countersunk or flattened, shall be of rounded shape and uniform size. Rivet heads shall be full, neatly made, concentric with the rivet holes, and in full contact with the surface of the member.

3.31.4 Welding. Welding procedures shall be in accordance with a nationally recognized welding code. The surface of parts to be welded shall be free from rust, scale, paint, grease, or other foreign matter. Welds shall be of sufficient size and shape to develop the full strength of the parts connected by the welds. Welds shall transmit stress without permanent deformation or failure when the parts connected by the weld are subjected to proof and service loadings.

3.31.5 Castings. All castings shall be sound and free from patching, misplaced coring, warping, or any other defect which reduces the castings' ability to perform its intended function.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

OO-D-2747

4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspections set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements; however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.1.2 Component and material inspection. Components and materials shall be inspected in accordance with all the requirements specified herein and in applicable reference documents.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.2.1).
- b. Quality conformance inspection (see 4.2.2).

4.2.1 First article inspection. When a first article is required (see 3.2 and 6.2), the first article inspection shall be performed on one ditching machine of each class included in the contract. This inspection shall include the examination of 4.3 and the tests of 4.4.1 through 4.4.5. The contracting officer will provide specific guidance on whether the first article must be a first article sample or may be a first production item or a standard production item from the supplier's current inventory provided the item meets the requirements of the specification and is representative of the design, construction, and manufacturing technique applicable to the remaining items to be furnished under the contract (see 6.2 and 6.4).

4.2.2 Quality conformance inspection. The quality conformance inspection shall include the examination of 4.3, the tests of 4.4, and the packaging inspection of 4.5.

4.3 Examination. Each ditching machine shall be examined for compliance with the requirements specified in section 3 of this specification. Any redesign or modification of the contractor's standard product to comply with specified requirements, or any necessary redesign or modification following failure to meet specified requirements shall receive particular attention for adequacy and suitability. This element of inspection shall encompass all visual examinations and dimensional measurements. Noncompliance with any specified requirements or presence of one or more defects preventing or lessening maximum efficiency shall constitute cause for rejection.

4.4 Tests.

4.4.1 Performance test. Before testing, the contractor shall prepare a maintenance schedule. Unless otherwise specified in the maintenance schedule, the ditching machine shall operate as specified herein without maintenance. Ditching machine shall be operated continuously at full rated engine speed for a period of 4 hours. At the conclusion of the 4 hour test, the ditching machine

OO-D-2747

shall be checked for lubrication and any signs of damage. Oil or grease shall be replaced as required. Ditching machine shall be operated for an accumulated period of 12 hours over a duration of not more than 2 days. Tests 4.4.2, 4.4.3, and 4.4.5 may be performed at the same time. Travel speed shall be checked by a distance over time calculation and the digging rate verified by calculating the quantity of material removed over a known time period. Every 4 hours the ditching machine shall be examined for excessive wear, overheating, and any signs of damage. Throughout the test, the ditching machine shall be observed to ascertain compliance with:

- a. Safety requirements of 3.5.
- b. Ease of maintenance and lubrication requirements of 3.8 and 3.26 respectively.
- c. Digging chain adjustment requirement of 3.12.

4.4.2 Digging tests. The digging tests shall be performed in one or more of the formations specified in 3.10. This test is to provide an accumulative digging time of not less than 8 hours, varying in depth from 4 feet to 8 feet in order to test the production capability as required in 3.10. The spoil discharge shall be alternated from one side to the other not less than five times during the digging tests. The boom shall not be elevated during the digging tests, except to remove or pass over obstacles extending beyond the width of the trench or beyond the depth capacity of the ditching machine. If, during digging tests, no obstacles of sufficient size or strength are encountered to cause the activation of the digging chain overload safety release, the overload release will be tested by an intentional jamming of the digging chain (see 3.12).

4.4.3 Travel test. The forward travel speed shall be measured to determine conformance to 3.10.1.

4.4.4 Lifting and tiedown attachments. When lifting and tiedown attachments are required, the ditching machine shall be tested to determine conformance to 3.24.

4.4.5 Operational test. The engine shall be started and subjected to a warm-up period as recommended by the manufacturer. The engine shall be stopped and started and all controls operated as many times as necessary to determine ease of operation, effectiveness, and responsiveness, and that the engine and all other components and mechanisms actuated by the controls operate promptly, fully, and without restriction, or malfunction. Travel speed shall be determined to verify conformance to 3.10.1. Bearings and shafts shall be both visually and tactually examined for excessive heating or abnormal operation. Failure to meet the requirements of section 3 and any evidence of failure to pass any phase of this test shall be cause for rejection.

4.5 Packaging inspection. The inspection of the preservation, packing, and marking shall be in accordance with the requirements of section 4 of MIL-T-3351. The inspection shall consist of the quality conformance inspection; and, when specified (see 6.2), a preproduction pack shall be furnished for examination and test within the time frame required (see 6.2).

OO-D-2747

5. PREPARATION FOR DELIVERY

5.1 Preservation, packing, and marking. Preservation, packing, and marking shall be in accordance with the requirements of MIL-T-3351 with the level of packing specified (see 6.2). When specified, commercial packaging shall be in accordance with ASTM D 3951.

6. NOTES

(This section contains information of a general explanatory nature that may be helpful but is not mandatory.)

6.1 Intended use. The ditching machines covered by this specification are intended for uses such as ditching, excavating for building foundations, drainage, and pipeline ditches at Federal facilities.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. Class required (see 1.2).
- c. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2).
- d. When a first article ditching machine is required for inspection and approval (see 3.2, 4.2.1, and 6.4).
 1. Location for first article inspection.
 2. Notification requirements.
 3. Special instructions.
- e. When special teeth are required (see 3.23).
- f. When lifting and tiedown attachments are required (see 3.24).
- g. When a toolbox is required (see 3.25).
- h. Color of finish coat (see 3.27).
- i. Technical manuals required including contents and distribution (see 6.3.1).
- j. Level of preservation and packing required (see 5.1).

6.3 Data requirements. When this document is used in an acquisition and data are required to be delivered, the data requirements shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved Contract Data Requirements List (CDRL) incorporated into the contract. When provisions of DOD FAR Supplement, Part 27, Sub-Part 27.475-1 (DD Form 1423) are invoked and the DD Form 1423 is not used, the data should be delivered by the contractor in accordance with the contract or purchase order requirements.

6.3.1 Technical manuals. The requirement for technical manuals should be considered when this specification is applied on a contract. If technical manuals such as operator's manual including lubrication chart, parts' manual, and/or maintenance, service, and repair manual are required, military specifications and standards that have been cleared and listed DoD 5010.12-L, Acquisition Management Systems and Data Requirements Control List (AMSDL) must

OO-D-2747

be listed on a separate Contract Data Requirements List (DD Form 1423), which must be acquired under separate contract line item in the contract.

6.4 First article. When first article inspection is required (see 3.3 and 6.2), the contracting officer should provide specific guidance to offerers whether the item(s) should be a first article sample, a first production item, or a standard production item from the contractor's current inventory as specified in 4.2.1. The first article should consist of one complete ditching machine of each class included in the contract. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examinations, approval of the first article test results, and disposition of the first article. Invitations for bids should provide that the Government reserves the right to waive the requirement for first article inspection to those bidders offering a product which has been previously acquired or tested by the Government, and that bidders offering such products, who wish to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract.

6.5 Part or identifying number (PIN). The PIN to be used for ditching machines acquired to this document are created as follows:

	F 2747 X
Prefix to indicate	* * *
Federal Specification -----	* *
Specification Number -----	*
PIN code for Class (see 6.5.1) -----	

6.5.1 Cataloging Data. For cataloging data purposes, PIN code numbers for class are assigned as follows:

- 1 = Class 1
- 2 = Class 2

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

Custodian:

PREPARING ACTIVITY:

Navy - YD

Navy - YD

User Activities:

Army - ME, CE
Air Force - 99

(Project 3805-0135)

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See section 2 of this specification to obtain extra copies and other documents referenced herein.