

SECTION 14621

HOISTS AND TROLLEYS

PART 1 - GENERAL

1.01 SUMMARY

- A. General work included in this Section:
 - 1. Lift Station Hoist.
- B. Related Sections include but are not necessarily limited to:
 - 1. Section 11005 - Basic Equipment, Materials, and Methods

1.02 QUALITY ASSURANCE

- A. Reference Standards:
 - 1. American Gear Manufacturer Association (AGMA).
 - 2. American National Standards Institute (ANSI):
 - a. B30.16, Safety Code for Overhead Hoists.
 - b. B30.10, Hooks
 - c. HST 2M, Performance Standard for Hand Chain Manually Operated Chain Hoists.
 - 3. National Electrical Code (NEC).
- B. Comply with ANSI B30.11 and B30.16.
- C. Furnish only equipment which is made by a recognized, reputable manufacturer with a minimum of five (5) years experience in manufacturing of specified equipment. Ensure that all equipment selected is locally serviceable and replacement parts are readily available.

1.03 SUBMITTALS

- A. Shop Drawings:
 - 1. Details of Hoist
 - 2. Reports of tests verifying strength of inserts and rail.
- B. Operation and Maintenance Manuals consistent with Section 01300.
- C. Quality Control Submittals: Load Test Results

1.04 DELIVERY, STORAGE AND HANDLING

- A. See Section 01600.

- B. Handle, unload, and store equipment in full accordance with manufacturer's recommendations.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Subject to compliance with the Contract Documents, the following Manufacturers are acceptable:
1. Yale.
 2. Acco.
 3. Robbins and Myers.
 4. Wright.
 5. Liftech International, Inc.
 6. Or approved equal.

2.02 MANUFACTURED UNITS

- A. Hoists:
1. Capacity: 20 tons
 2. Testing: Factory and Field
 3. Location: Indoors
 4. Service Class: H1 (Standby)
- B. Hand operated, chain
1. Low or close headroom models.
 2. Hoist frames of welded heavy steel plate construction.
 3. Provide running sheaves with means for lubrication.
 4. Bearings.
 - a. Antifriction type.
 - b. Minimum 5000 HRS for Class H3, based on full rated speed and mean effective load K of 0.65.
 5. Mechanical load brake.
 6. Mark the hoist with the following information:
 - a. Name and address of manufacturer.
 - b. Manufacturer's unit identification number.
 - c. Rated load.
 7. Trolley Travel: Hand-Geared
 8. Hoist Lift: Hand Chain

PART 3 - EXECUTION

3.01 ERECTION/INSTALLATION/APPLICATIONS

- A. Install in accordance with manufacturer's instructions.

3.02 FIELD QUALITY CONTROL

- A. After installation is complete, provide the services of a representative of the equipment supplier to inspect and test the system and to supervise final adjustments. Ensure complete instruction is given to the Owner's personnel regarding proper operation and maintenance procedures. Secure from the manufacturer's representative a written report stating the installation has been examined and units are installed in accordance with manufacturer's recommendations. Submit this report to the Owner and Engineer.
- B. Test hoist using 100 percent rated load.
- C. Employ and pay for services of equipment manufacturer's field service representative(s) to:
 - 1. Inspect equipment covered by these Specifications.
 - 2. Supervise pre-startup adjustments and installation checks, and all field tests.
 - 3. Conduct initial startup of equipment and perform operational checks.
 - 4. Provide a written statement that manufacturer's equipment has been installed properly, started up, and is ready for operation by Owner's personnel.

END OF SECTION

