SECTION 11172

TRASH COMPACTOR

Part 1 -GENERAL

1.1 DESCRIPTION

A. Furnish and install waste compactor bases of design 400-C5 and ancillary equipment as indicated on the Drawings and as specified within.

1.2 RELATED WORK SPECIFIED ELSEWHERE

A. Concrete work - Section 03300 "Cast in Place Concrete"
B. Rubbish Chute- Section 11175 "Chutes and Collectors"
C. Floor drains, hose bibs, fire sprinklers -Division 15 "Mechanical"
D. Electrical wiring to control panels, and wiring from control to disconnect box panels - Division 16 "Electrical"

1.3 QUALITY ASSURANCE

A. The equipment shall comply with the National Electric Code and ANSI-Z-245-1.
B. Manufacturer shall have at least 5 years experience in the manufacture of the specified equipment and shall maintain a servicing and replacement parts system for at least 3 years after installation of equipment.
C. The work in this section shall be subject to all applicable provisions of governing building codes and ordinances.

1.4 SUBMITTALS

A. Product Data: Submit manufacturer's product specifications, performance data sheets and installation instructions.
B. Shop Drawings: Submit plans, elevations, and details for work not fully shown by published product data; include rough in dimensions and service connection.

1.5 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Protection: Equipment shall be protected at all times from physical damage, dirt, water etc.
B. Under no condition shall compactor be used for construction trash, or any other use other than what it was intended for.

Part 2 –PRODUCT

2.1 COMPACTOR

A. General: Compactor shall be equal to Model No. **400-C5** manufactured by **Apollo Welding, Chute Source, Wilkinson Chutes.** Fully automatic, electric eye controlled, hydraulically operated, stationary, ram compactor displacing 54 cubic yards of refuse per hour into a heavy duty compaction container of a design compatible with local requirements. The compactor body is fabricated from 1/4" steel plate . Compactor ram is constructed of 1/4" sides, top and bottom. The ram face is 3/8" steel plate, reinforced. Header bar is 5" x 5" x 1/2" steel angle. The integral hopper is made of 1/4" steel plate with a 1/4" back plate to take the impact of falling refuse. The compactor floor is 3/8" thick steel.

B. Operation: The operation shall be automatically controlled when the compaction chamber fills to the level where the photo sensor activates the compaction ram. The compactor ram shall continue to cycle until all refuse is cleared. When the container is full, compactor will automatically shut down and activate the full display on the LCD panel.

C. Hydraulic System: The hydraulic system shall include a 6.0 gpm pump, 5 HP motor, 15 gallon reservoir and directional control valve. System shall be rated for 3000-psi operation.

D. Electrical System: The electrical system shall include 5 hp, 1725 rpm motor, 208/230/480V, 30 amps, three phase, four wire w/neutral for ground, 60Hz. Furnished with motor starter and 115v control and programmable controller. All components are to be UL labeled.

E. Photo Sensor: The compactor shall be fitted with a reliable photoelectric sensor. Wiring to control panel shall be in "sealtite" plastic coated sealed conduit.

F. Control Panel: The control panel shall be mounted to the remote power pack and shall include a key activated on-off switch, start button, manual forward reverse switch, emergency stop/reset button and 80% and 100% digital read out.

G. Safety Features: Compactor door shall be fitted with captive switch not easily defeated to shut the machine down when the access door is opened.

H. Programmable Controller: The compactor shall be controlled and monitored by a microprocessor, which shall visually allow the user to read the various operations of the compactor. Indicator lights on the board shall include photo eye fault, high temperature, low oil, pressure switch failure, overload fault and solenoid fault. Compactor shall be programmed to automatically shut down after 15 minutes of continuous operation indicating possible photo eye malfunction this time is field

Part 3 - EXECUTION

3.1 INSPECTION

A. Inspect the areas and conditions under which units are to be installed. Do not proceed with the work until conditions are satisfactory.

3.2 INSTALLATION

A. Compactors shall be installed in accordance with approved drawings.

B. Field assembly work: perform minor field assembly work to install certain fragile or projecting parts that were not installed at the factory.

C. Set each component of work securely and accurately, level and properly aligned with other components and other work. Anchor as required for secure operation.

3.3 TESTING AND INSTRUCTIONS

A. Test each item of operational equipment. Provide maintenance manual. Instruct Owner's operation personnel in proper use and maintenance of equipment.