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SPECIFICATIONS:

CanAm Chute and Compactor System

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SECTION 11 82 00 / 11175 - GARBAGE CHUTE, COMPACTOR & CONTAINERS

This section is based on a system produced by:

CANAM WASTE PRODUCTS

Ontario, CANADA

647-492-0318 / 1-833-307-4040/ info@canamwaste.ca

Part 1 GENERAL

1.1 RELATED DOCUMENTS

- A. The general provisions of the contract, including General and Supplementary Conditions and Division 1, General Requirements, apply to the work specified in this section.

1.2 DESCRIPTION OF WORK

- A. Work Included: Furnish and install where shown on plans 24" inch (600 mm) diameter garbage chute with compactor and containers below as specified below.

1.3 SUBMITTALS

- A. Catalog Cuts: Before the trash chute is delivered to the job site, submit catalog cuts to the Architect in accordance with these specifications, showing all details of installation and assembly and all requirements for work by other trades.
- B. Product Data: Manufacturer's product specifications, standard details and recommendations for project conditions; indicate selected sizes and installation details specific to the project.
- C. Shop Drawings:
 - 1: Plans: Scale 6 mm to 300 mm; indicate locations, dimensions, and required associated construction activities.
 - 2: Elevations/Sections: Scale 6 mm to 300 mm; indicate locations, dimensions, and required associated required construction activities.
 - 3: Details: Scale 6 mm to 300 mm; indicate:
 - a. Shop drawings specific to project conditions
 - b. Interface with adjacent construction
 - c. Dimensions and tolerances
 - d. Products required for installation of the trash chute, but not supplied by the equipment manufacturer.

- D. Quality Assurance/Control Submittals:
 - 1. Contractor's Certification that:
 - a) Manufacturer's certification that installer of manufacturer's product is approved.
 - b) Applicable standards: National Fire Protection Association (NFPA/82), and the Ontario Building Code standards as referenced herein.
- E. Close-out Submittals:
 - 1. Operation and Maintenance Data:
 - a) Manufacturer's printed Operation Manual
 - 2. Warranty Documents: Issued and executed by the manufacturer and installer of the system.

1.5 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer: Minimum five (5) years-documented experience producing products specified in this section.
 - 2. Installer: Approved by the Manufacturer, and having a minimum of five (5) years experience.
- B. Pre-Installation Meetings:
 - 1. Convene at job site a minimum of seven (7) calendar days prior to scheduled beginning of construction activities of this section to review requirements of this section.
 - 2. Require attendance by representatives of the following:
 - a. Installer of this section
 - b. Other entities directly affecting, or affected by, construction activities of this section.
 - c. Notify Architect four (4) calendar days in advance of scheduled meeting date.

1.6 RELATED WORK BY OTHERS SPECIFIED ELSEWHERE

- A. The following work is excluded from the scope of work in this section and is included in other divisions of the specifications for inclusion in the scope of work of others.
 - 1. Flashing at the roof
 - 2. Water supply and valves to flushing and fire sprinkler heads.
 - 3. Supply & installation of the plumbing access door provided under this section is to be by the forces erecting the shaft enclosure walls.
 - 4. Floor sleeves/ concrete work to ensure uninterrupted installation.
 - 5. 1 each: 208VAC, 10 amp, 3-Phase, 4-wire, 60Hz Compactor circuit with neutral. Building electrician to supply and connect power to the equipment.
 - 6. 110V receptables located in garbage room for service and CanAm odour control unit
 - 7. 1 each: Cold water or earth ground.

1.7 WARRANTY

- A. Manufacturer's warranty: Furnish manufacturer's standard one (1) year warranty from date of temporary certificate of occupancy or similar, locally mandated permission to use the project common areas for their intended use. Warranty shall apply to defects in product workmanship and materials.

Part 2 PRODUCTS

2.1 REPRESENTATION

- A. Acceptable representation: CANAM WASTE PRODUCTS INC. T: 647-492-0318 / Toll Free: 1-833-307-4040
- B. Substitutions: Not permitted.
- C. Components:
1. The chute shall be 24" inch (600 mm) diameter of #16 gauge aluminized /galvaneel steel.
 2. Intake Doors: CanAm Waste chute door, steel, 16 x 18", bottom hinged, hand operated self-closing positive latching doors bearing an appropriate fire rating.
 3. Discharge: Type "AC" open end chute discharge door with 165°F. (74°C) fusible link at the bottom of the chute discharge to close automatically when the ambient temperature reaches 165°F. (74°C) as required by city or provincial building and/or fire codes. Unit with cU.L.[®] rating as described above.
 4. Vent: Chute shall extend full diameter through roof to metal top vent cap. Flat roof cap included.
 5. Accessories: 3/4" inch (19 mm) IPS flushing spray head and 1/2" inch (12.5 mm) sprinkler head above highest intake. Additional 1/2" inch (12.5 mm) sprinkler heads at every second intake (counting from the top) or as required by local code.
 6. Provide Disinfecting & Sanitizing unit for installation in line to the flushing spray head. Connection to flushing spray head, back flow prevention valve by others. Solution by others.
 7. Offsets (bends) in the chute, if required, shall be made the same diameter as the chute of #16 gauge (1.6 mm) aluminized steel/ satin coat and have an additional layer of # 13 gauge (2.26 mm) aluminized steel reinforcing the impact area. Offsets are not to deviate more than 30° off the vertical axis of the chute.
 8. Sprinkler System: Chute to be protected internally by automatic sprinklers. This requires a sprinkler at or above the top intake door of the chute, and in addition, a sprinkler shall be installed within the chute at alternate floor levels in building over two stories in height with mandatory sprinkler located at the lowest service level.
 9. Include floor isolator pads to minimize floor noise transmission.
 10. Apartment Compactor: CanAm Waste model CANAM60 (or other model as specified) fully automatic, electric eye controlled, hydraulically operated, stationary, ram compactor displacing 33 cubic yards (25.23 m³) of refuse per hour into a heavy duty compaction container of a design compatible with local requirements. The compactor body and top is 1/4" inch (6.35 mm) steel plate, while the sides are 1/4" inch (6.35 mm) steel plate. The compactor ram is constructed of 1/4" inch (6.35 mm) sides and top with 1/4" inch (6.35 mm)

steel plate bottom. The ram face is 1/4" inch (6.35 mm) steel plate, reinforced. The hopper is made 10 gauge (3.40 mm) steel plate with a 1/4" inch (6.35 mm) slope to take the impact of falling refuse. The compactor floor is 1/4" inch (6.35 mm) thick steel. The CANAM60 produces 8,500 pounds of packing force at 800 psi. (5500 kPa).

11. Hydraulic Power Packs: A prepackaged power system with components rated at 3000 psi operating at a recommended pressure of 800 psi for long life and low maintenance. Power- 208V, 3 phase, 4-wire, 60 Hz. Motor – 2 HP @ 1800 RPM.
12. Control panel to be part of the power pack, located on either side of the compactor and including:
 - a. On/off power switch
 - b. Power on light
 - c. Full light
 - d. Full load reset cycle
 - e. Automatic continuous cycling when electric eye is activated
 - f. Automatic shut off when container is full
 - g. C.S.A. and Electrical Safety Authority approved controls
13. Recycling containers: Industry standard 95-gallon containers for commingled and paper recyclables or FEL – front end loading containers for newspaper and commingled (quantities to be specified, depending on municipality or hauler requirements).
14. Organic Containers: Quantities and type of FEL / front end or 95 gallon toter loading containers to be specified depending on municipal or hauler pick up requirements.
15. Garbage compaction containers: capacity 3 cubic yards, front end loading, length 1930mm, width 1219 mm, height 1499 mm fully welded bottom and sides, reinforced 10 gauge (3.40 mm) steel plate (quantities to be specified).
16. Provide 6" inch (152.4 mm) diameter heavy-duty polyurethane casters, 2 swivel, 2 fixed.
17. Reinforced floor and lift pockets & containers designed to mate with standard CANAM60 compactor. Standard "hold down bar" on double steel lids. Containers will be 12 gauge (2.64 mm) steel sides, 10 gauge (3.40 mm) steel bottom, 14 gauge (1.88 mm) steel lids, 10 gauge (3.40 mm) steel channels, and 10 gauge (3.40 mm) steel charging door.
18. Finish: A shop finish inside and out with corrosion resistant paint.
19. Optional item: CanAm Bin Buddy – battery operated container movement device for health and safety of maintenance staff.
20. Optional item: CanAm Chute blocker – manual safety device to allow maintenance staff to close down/ close off the garbage chute.
21. Optional item: CanAm Odour control system – HEPA and UVC odour control device to minimize odours in garbage room. 110V receptable needed.

2.2 FABRICATION

- A. The garbage chute shall be fully factory assembled and all joints, except those required to separate the sections for shipment and installation shall be welded or lock-seamed tight. The floor intake doors shall be bolted in place on throats formed into the chute. All chute sections shall flash inside the sections below and there shall be no bolts, clips, or other projections inside the chute to snag the flow of material. Pre-positioned support frames shall assure proper intake levels and there shall be an expansion joint in the chute between all support joints. Discharge hoppers and offsets, where required, shall be reinforced and separately supported in the impact area.

Part 3 EXECUTION

3.1 EXAMINATION

- A. Verification of conditions:
 - 1. Area in which system is to be located is correct size and location, and is prepared for installation of trash chute and components.
- B. Installer's examination:
 - 1. Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if conditions under which construction activities of this section are to be performed are unacceptable.
 - 2. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.
 - 3. General Contractor shall verify and record chute alignment with installer immediately following installation.

3.2 INSTALLATION

- A. Install trash chute in accordance with shop drawings and manufacturer's printed installation instructions.

3.3 DEMONSTRATION

- A. Arrange demonstration of system operation, conducted by manufacturer's representative, to Owner's maintenance personnel.

*** END OF SECTION ***