ISP Industries, Inc.

Waste Handling Compactors & Dumpers for Wet or Dry Industrial and Commercial Applications

Making Compaction Happen
An Overview for Architects

What is a Compactor?

- Mechanical device
  (hydraulically or electrically actuated)
- Designed to dramatically reduce volume of materials, thus saving labor, time and disposal cost
- ANSI Z-245.2 Definition
  A powered press or auger that remains stationary when operating, and is designed to compact waste or recyclable materials into a container.

The Value of Compaction:

Volume Reduction

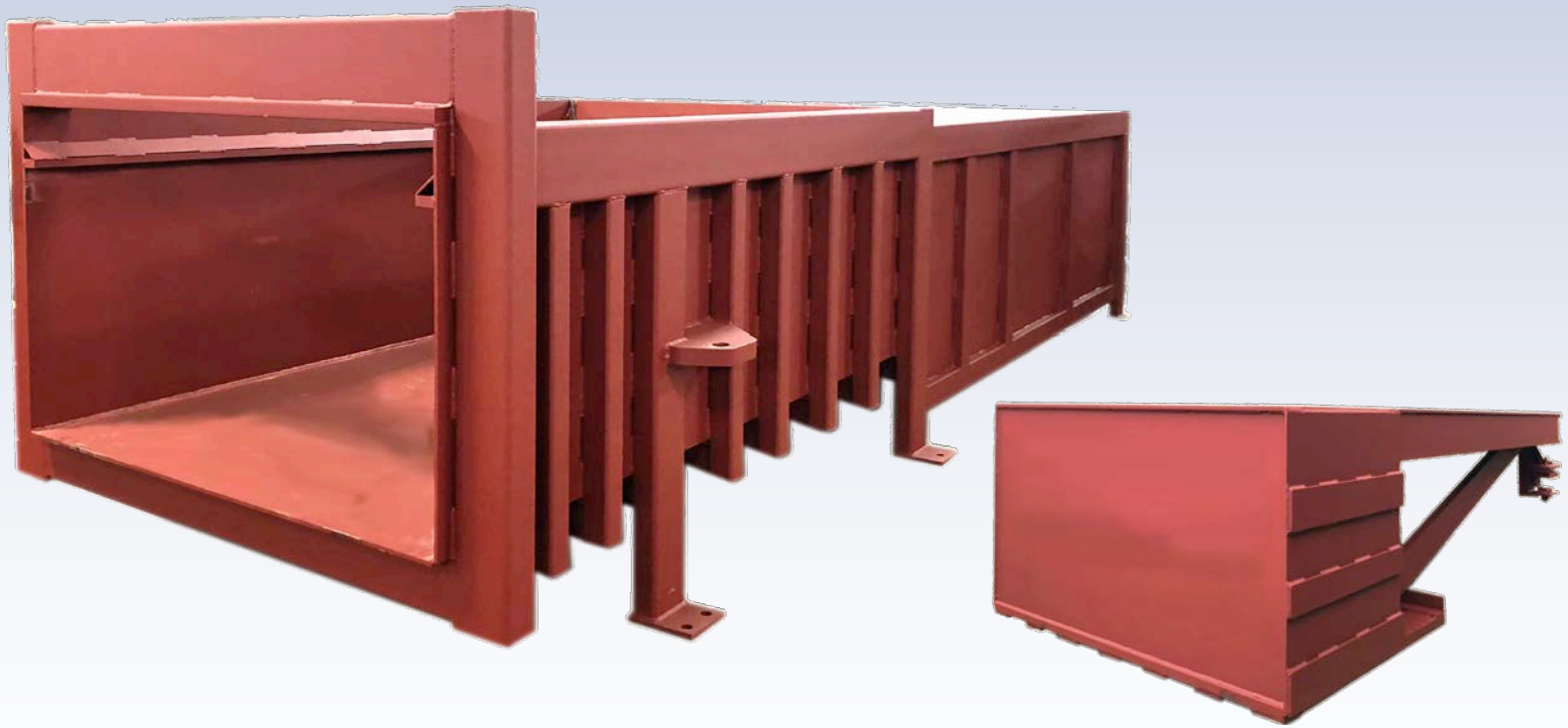
Before

After

- Maximizes space utilization
- Minimizes labor of handling and transportation cost by maximizing container load weight

Compactor Components:

Frame & Ram



Compactor Components:

Cylinder

Compactor Components:

Power Source

Compactor Types

Compactors are designed to compact into an attached container for transport to processing and/or disposal facilities.

There are many different design types of compactors to accommodate varying application and facility infrastructure design requirements. Primary among them are stationary and self-contained:

Compactor vs. Baler

Balers are a unique variation of a compactor which is designed to compact within themselves to form a product ready for shipment.

Sizing up your Project

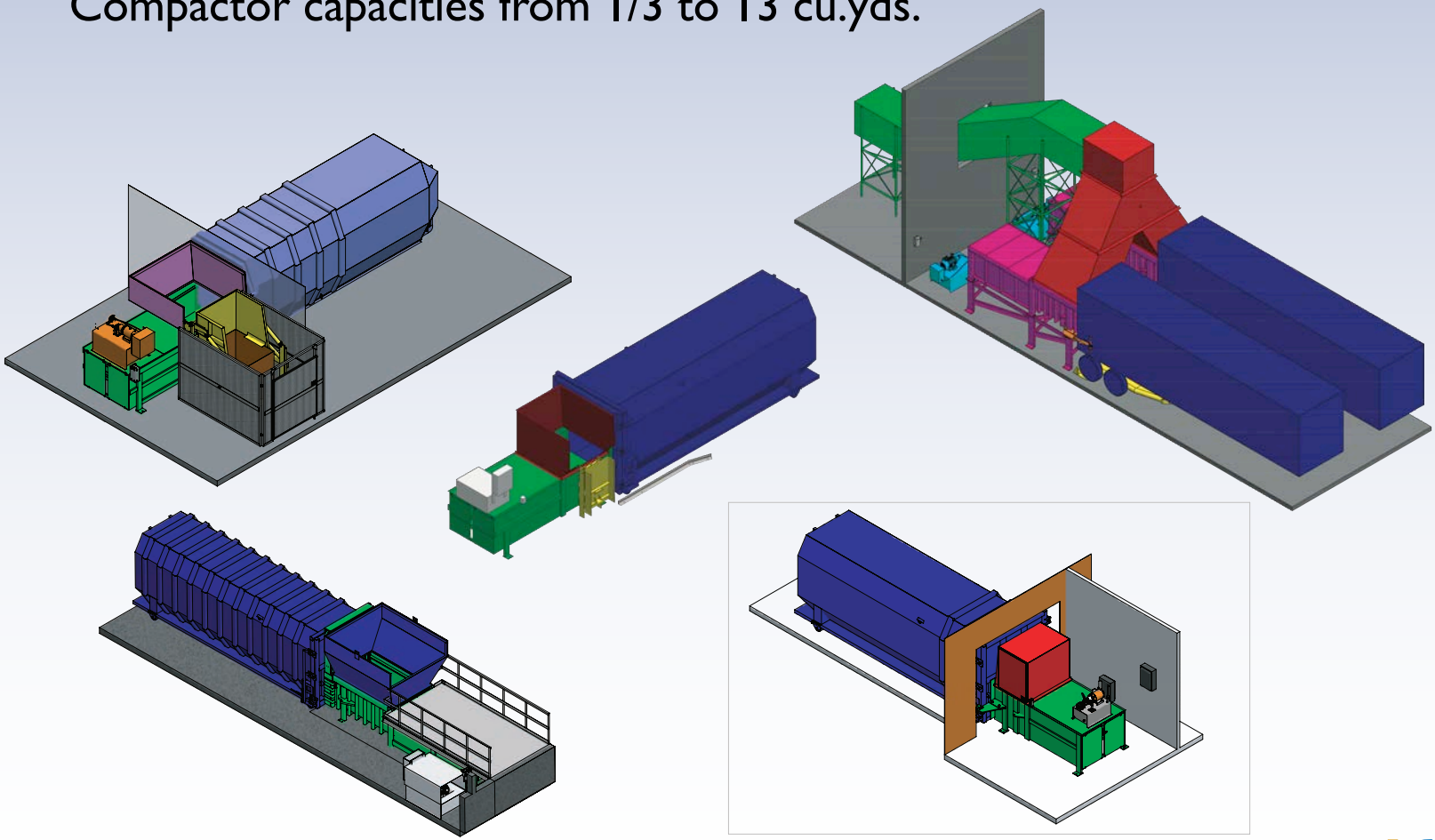
How Are Compactors Sized Or Rated?

- Manufacturers
  Rate the total holding capacity of the complete base compaction chamber.

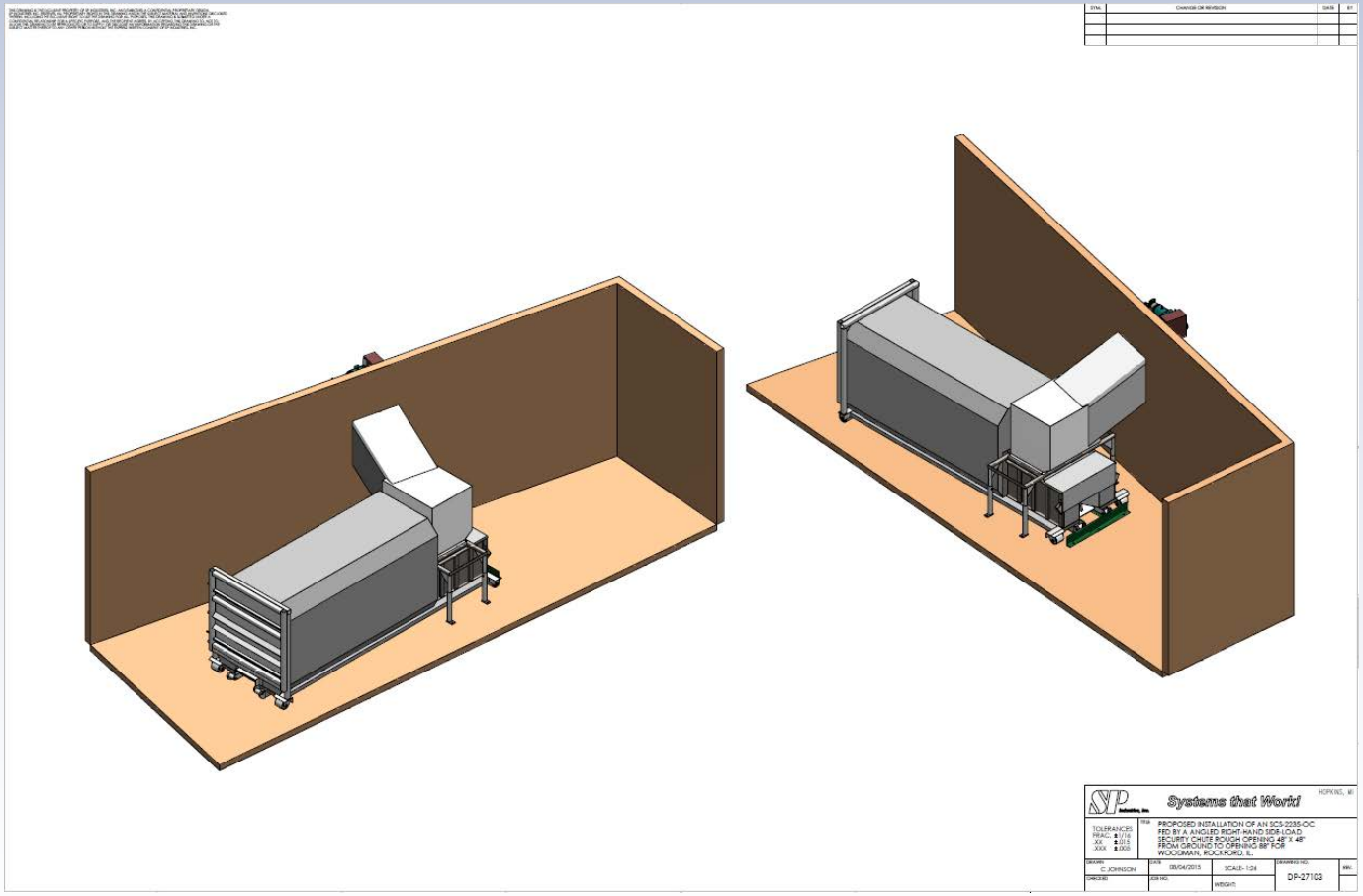
- WASTEC (Industry Association)
  Rate the area that includes the width and height of the ram, and the length of the chamber from ram retracted to the front of the breaker bar.

Many Sizes and Configurations

Compactor capacities from 1/3 to 13 cu.yds.



Many Shapes & Sizes



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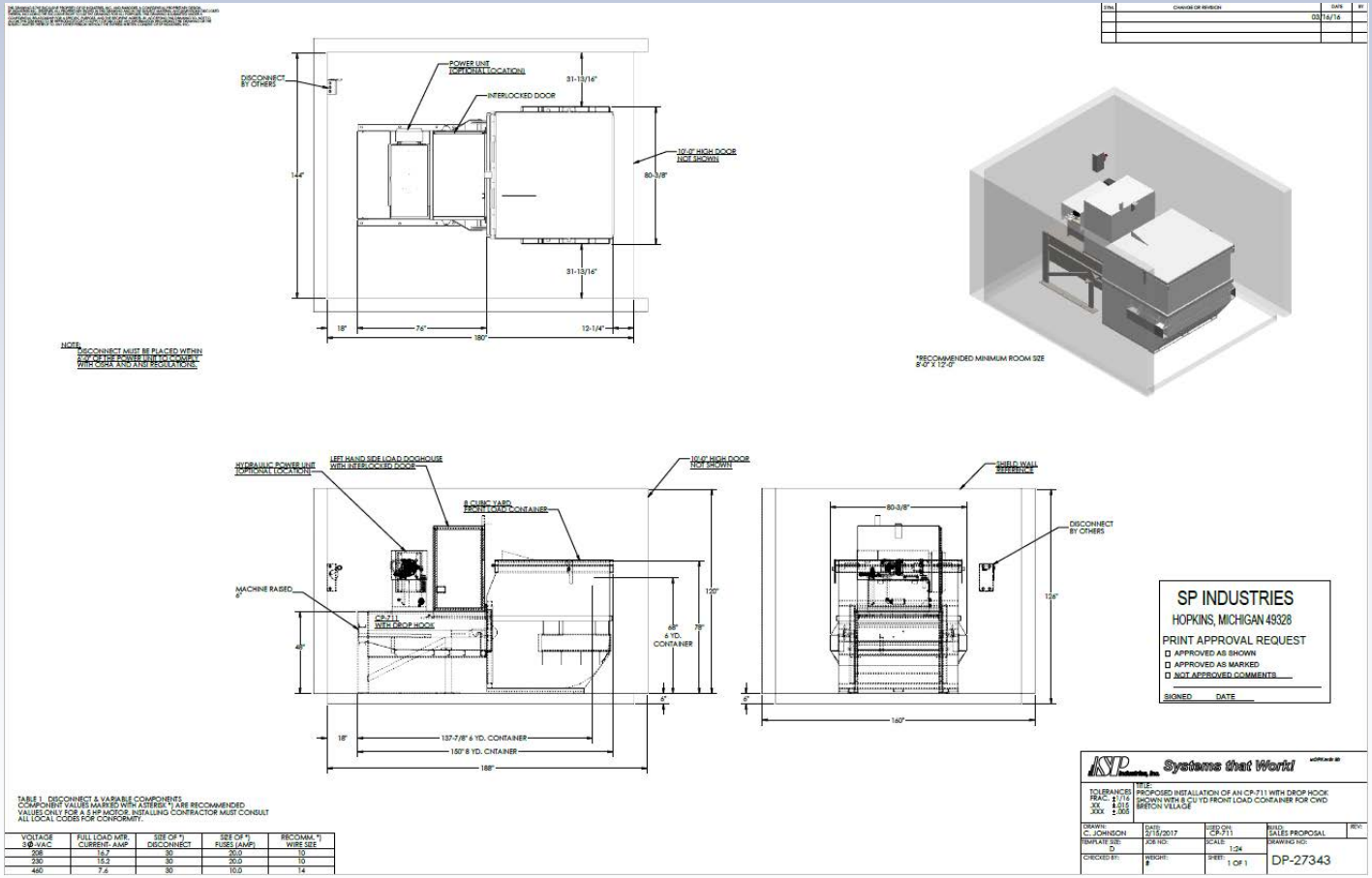

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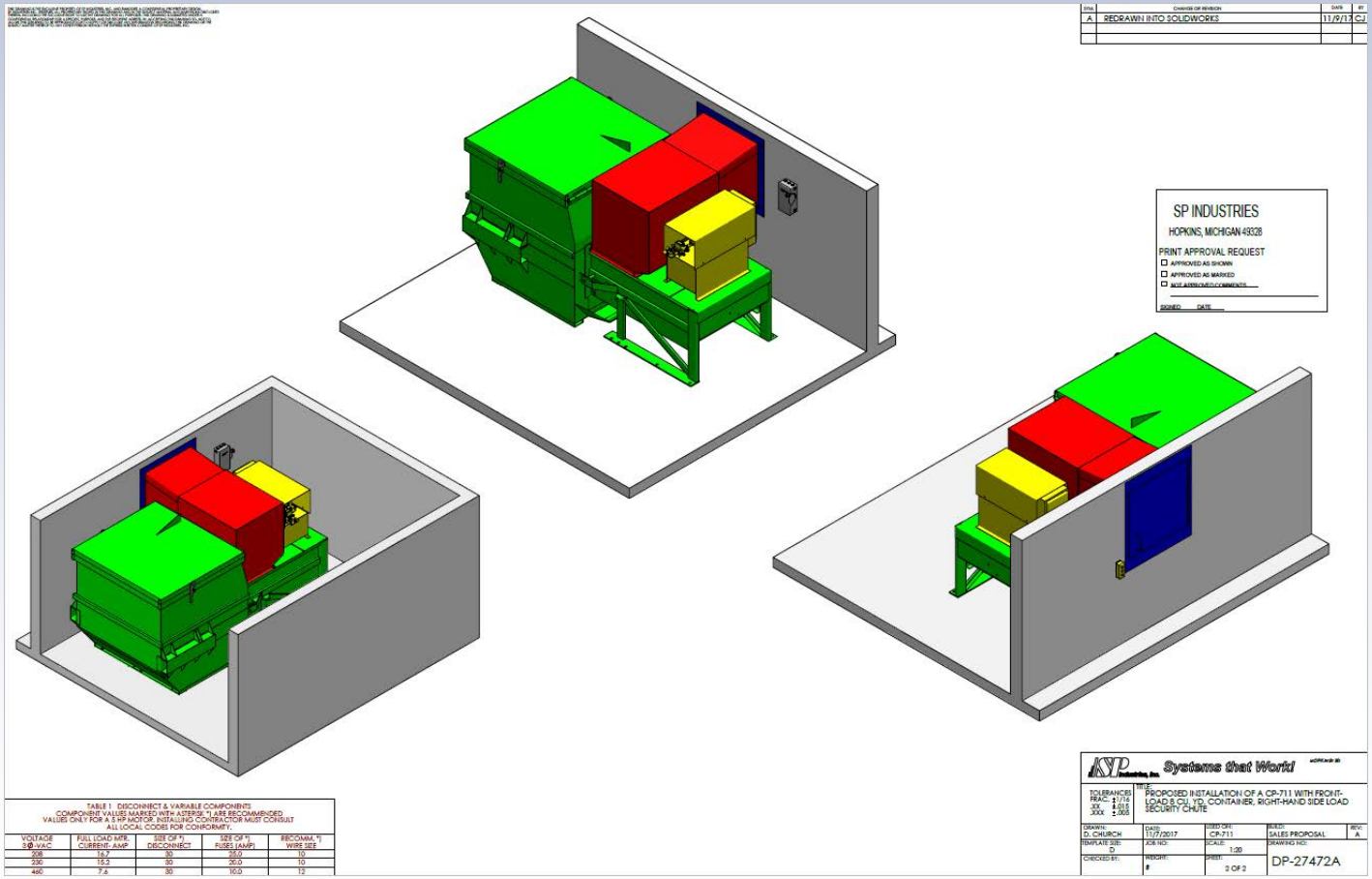

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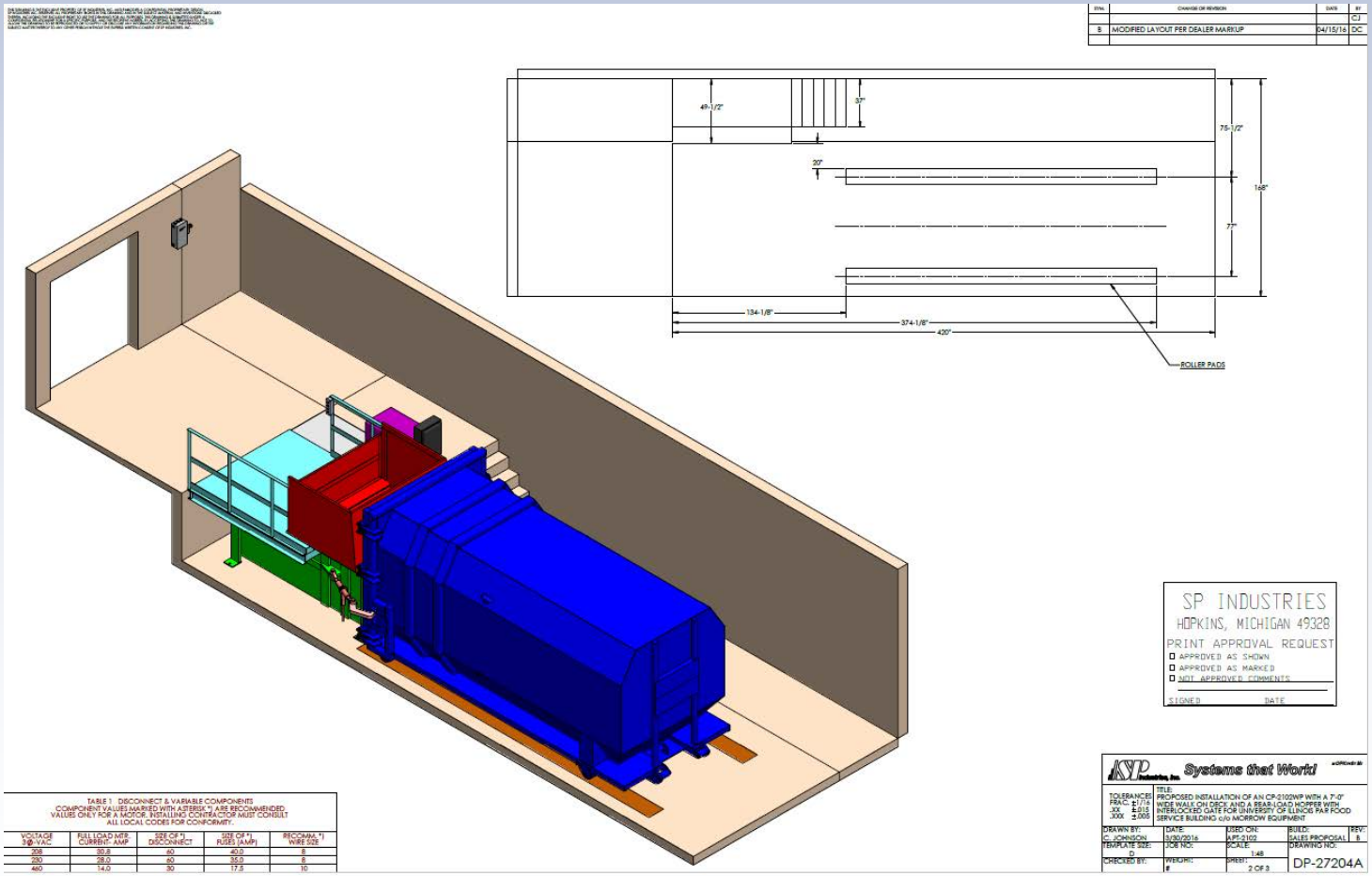

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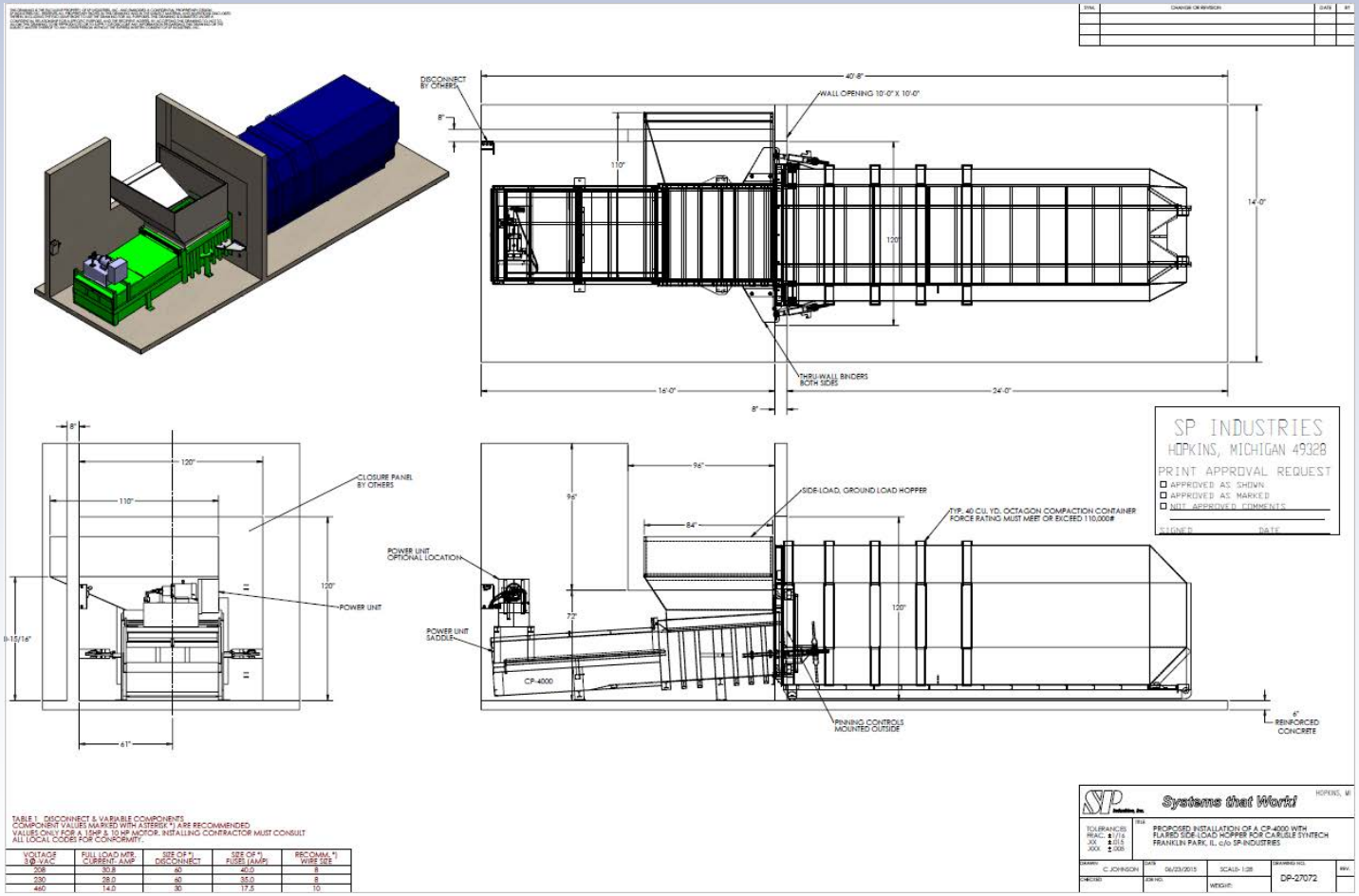


TABLE-1. DISCONNECT & VARIABLE COMPONENTS
COMPONENT VALUES MARKED WITH A (TERISK (*) ARE RECOMMENDED
VALUES ONLY FOR A 15HP & 10 HP MOTOR. INSTALLING CONTRACTOR MUST CONSULT
ALL LOCAL CODES FOR CONFORMITY.

VOLTAGE 3Ø-VAC	FULL LOAD MTR. CURRENT- AMP	SIZE OF *1 DISCONNECT	SIZE OF *1 FUSES (AMP)	RECOMM. *1 WIRE SIZE
208	30.8	60	40.0	8
230	28.0	60	35.0	8
460	14.0	30	17.5	10

How to Select the Right Machine?

Here's what you need to know:

- What is the waste material to be handled?
- What is the largest size of the material?
- What is the volume throughput required?

What is the Waste?

Dry Waste

- Paper
- Cardboard
- Plastic
- Rubber
- Pallets/crates
- Glass
- Metals

What is the Waste?

Wet Waste

- Aircraft food service waste
- Biohazard wastes from pharmaceutical manufacturers, hospitals and healthcare facilities
- Recovering and recycling industrial lubricating oils and cutting/cooling fluids
- Handling food & beverage wastes from a myriad of food manufacturers/processors, grocery distributors, restaurants, casinos, hotels, fast food courts…

What is the Largest Size of the Material?

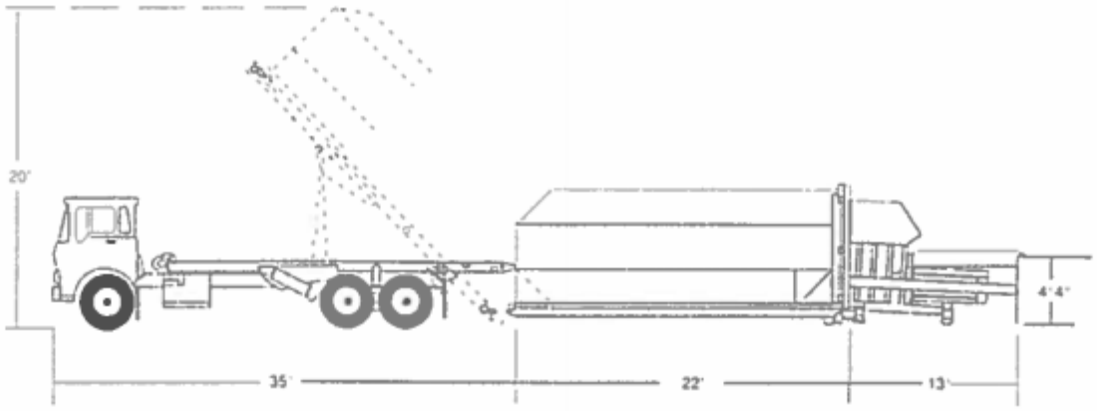
What common container does it fit in?

- Gaylord box
- Pallet
- Shoebox
- Tote cans (65 to 90 gal.)
- Carts (1-1/2 yd to 3 yd)
- Self dumping hoppers

Diverse Applications

Hauler Approach

With Roll-off Self-Contained Compactor



ROLL OFF VEHICLE CONFIGURATION

Note: Approximate specifications subject to change without notice

Note: Total Approach Needed = 132 ft. (Roll-Off Container)

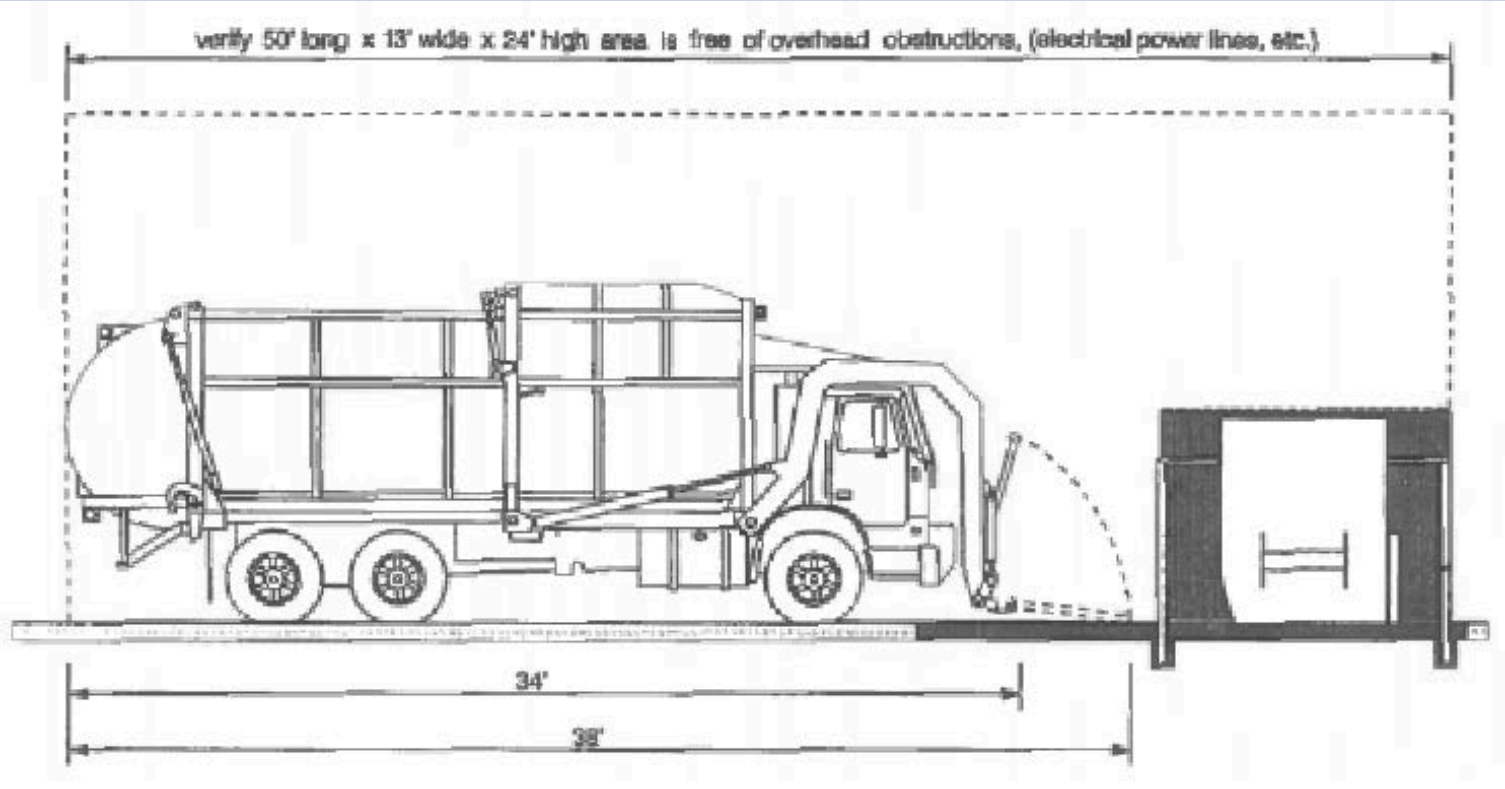
Total Approach Needed = 145 ft. (Compactor)

Hoist Extension = 20-22 ft.

75 ft. (Approach) + 35 ft. (Truck) + 22 ft. (Roll-Off Container)

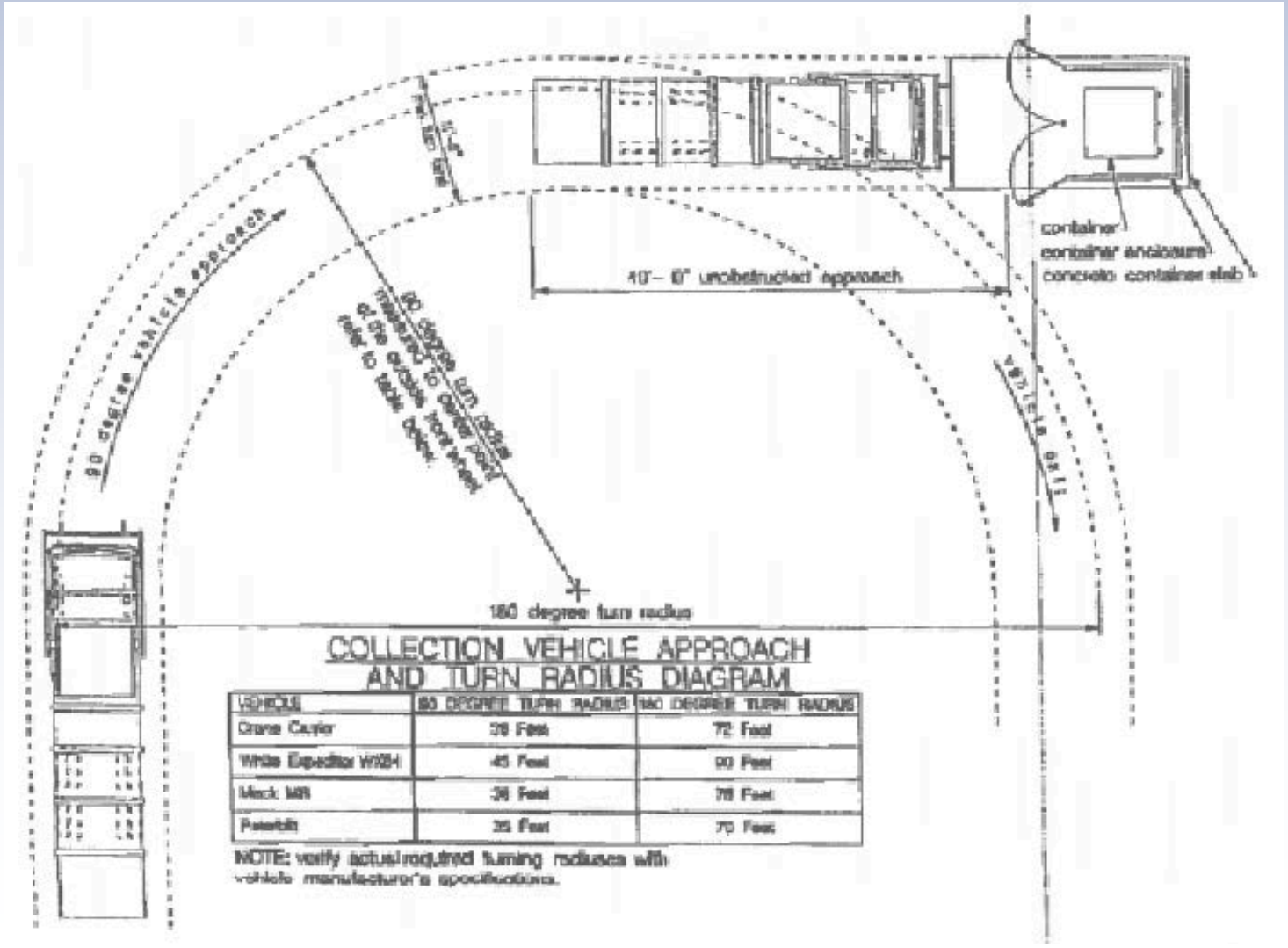
Hauler Approach

Front/Rear Load



Hauler Approach

Front/Rear Load



VEHICLE	90 DEGREE TURN RADIUS	180 DEGREE TURN RADIUS
Crane Carrier	39 Feet	72 Feet
White Expeditor W2H	45 Feet	90 Feet
Mack MR	36 Feet	78 Feet
Peterbilt	35 Feet	70 Feet

Additional Offerings from SP Industries

Hydraulic-free electromechanical compactors, cart dumpers, pre-crusher compactors, containers, specialized access and egress options, workstations and more…

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Questions?

800-592-5959