

**NOW...**

**A NEW  
CONCEPT IN  
REFUSE TRANSFER...**

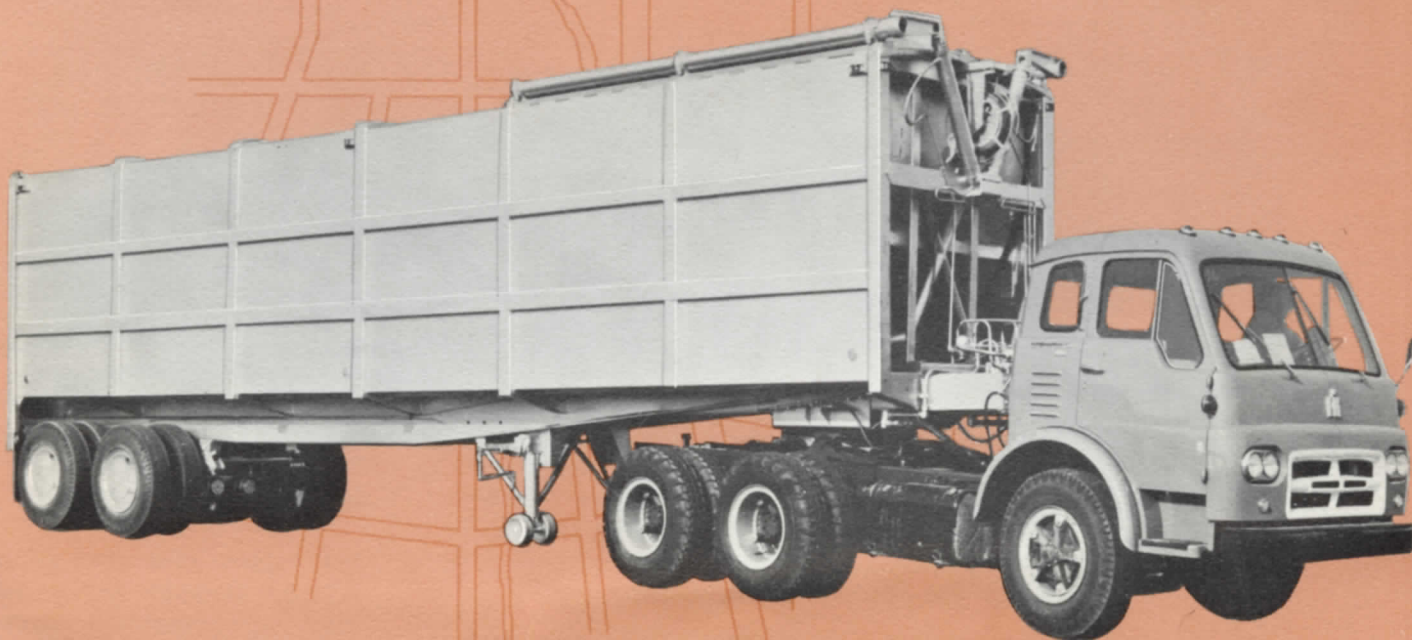
**THE NEW**

**LEACH**

**CENTRALIZED COLLECTION  
& DISPOSAL SYSTEM!**

**SAVINGS UP TO 500%... AND MORE**

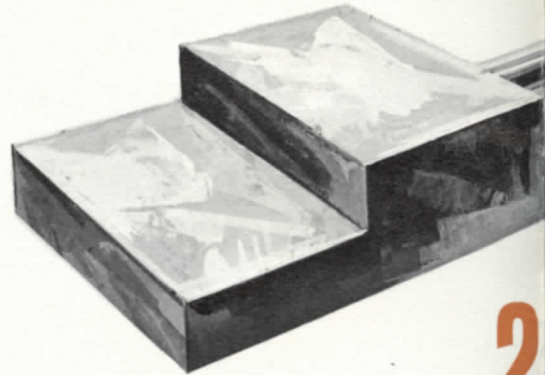
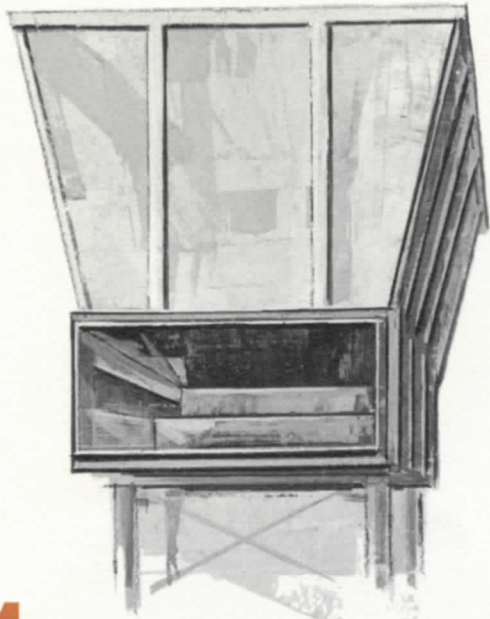
- \* Reduces the costly "Travel Time" of smaller collection units to and from disposal areas.
- \* Eliminates lost man hours from crews riding to and from disposal areas.
- \* "Customized" to meet the needs of different sized refuse collection operations.



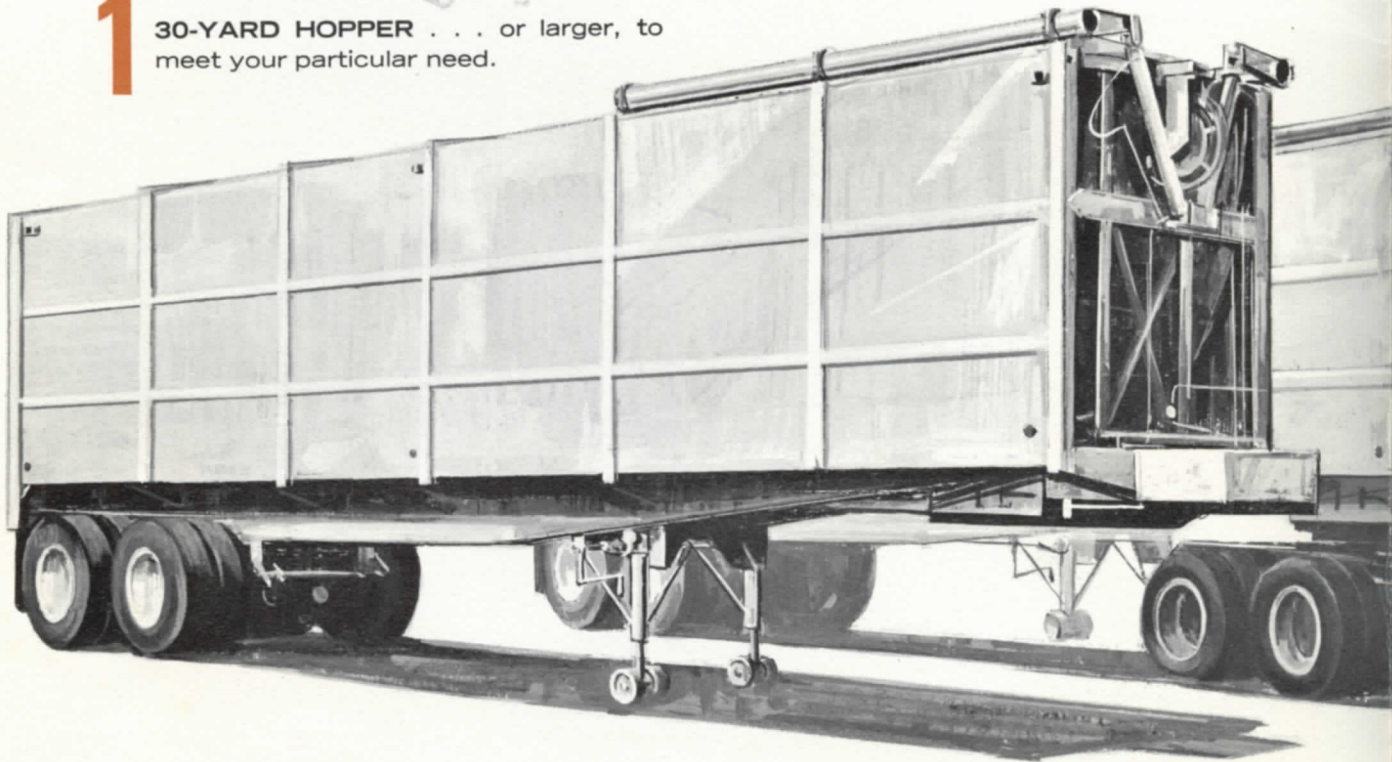
**LEACH**  
GUARANTEED QUALITY

**AMERICA'S MOST EFFICIENT REFUSE UNITS!**

# HOW THE LEACH CENTRAL



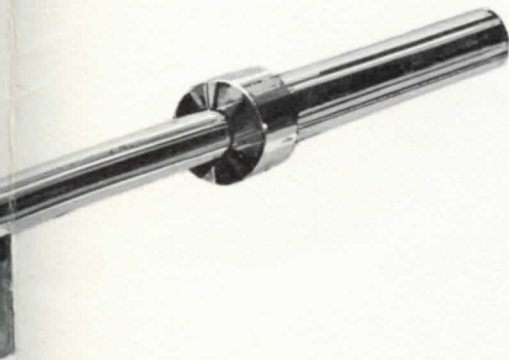
**1** 30-YARD HOPPER . . . or larger, to meet your particular need.



**3** COMPACTION TRAILER. Available in sizes to meet your specifications. Built to conform to your particular local conditions and allowable gross vehicles weights. Trailer is multiple-axle, heavily reinforced all-steel construction.



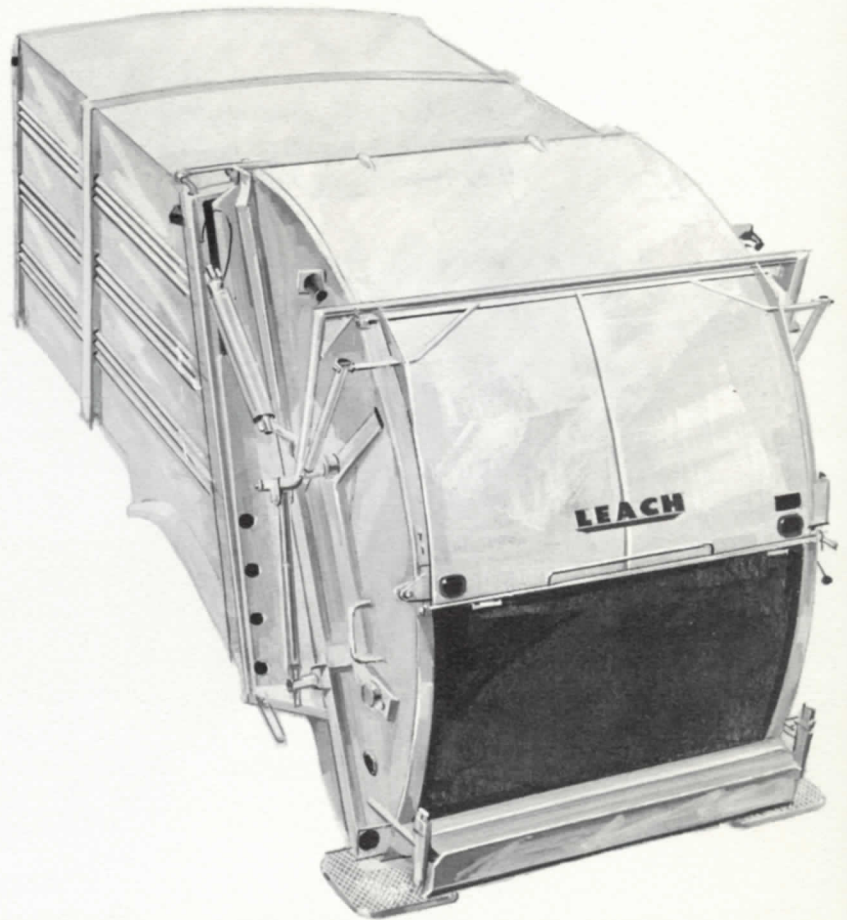
# IZED COLLECTION SYSTEM WORK



**POWER COMPACTION UNIT.** Rugged, powerful . . . consists of single-stage, double-acting hydraulic cylinder and 3' x 8' Compaction-Plate which pushes load from hopper into trailer.



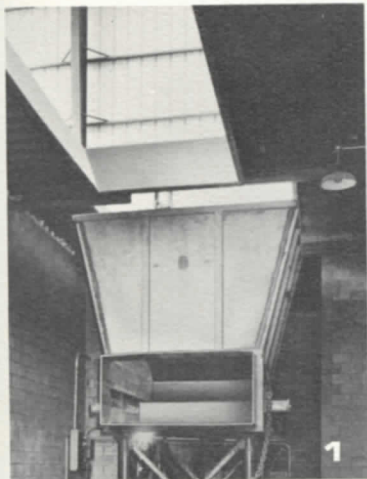
**4 TRACTOR UNIT.** Any Standard Tractor available from manufacturer of your choice. Size dependent upon Trailer Unit selected and local load requirements.



**5 COLLECTION UNIT—LEACH PACKMASTER.<sup>®</sup>**  
Note: System, of course, will work with any type of Collection Unit: enclosed body, open body, or any type of trash truck. However, for greatest efficiency and lowest cost, the LEACH PACKMASTER is recommended as the Collection Unit best suited for this system.

# S / ONLY **5** BASIC ELEMENTS... **CUST**

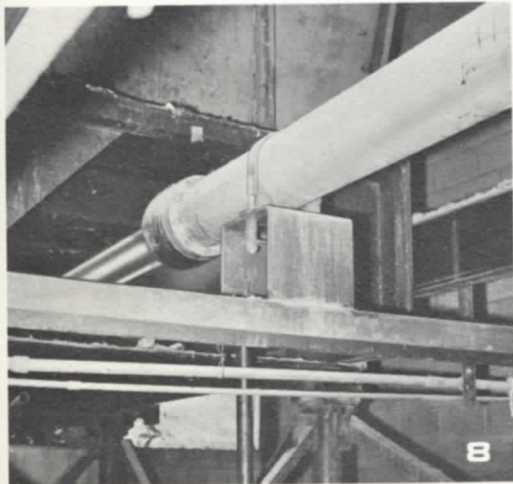
## THE LEACH SYSTEM IN ACTION...



**1.** Front view of Hopper and Power Compaction unit. **2.** Compaction Trailer in position to receive refuse from above level. Note: In this particular installation, low cost, bi-level steel-and-concrete block structure,

approximately 40' x 60', has been installed for all-weather use of system. **3.** Close-up of Trailer in position. **3a.** Secondary optional opening of Trailer, permitting dumping of two Collection trucks simultaneously.

**4.** Top-side view of LEACH collection unit dumping of trailer on lower level showing ordinary operation.



**8.** Underside view of rugged single-stage, double-acting LEACH hydraulic cylinder. Cylinder actuates Compaction-Plate back

and forth. **9.** Close-up, underside view of action as Compaction-Plate compresses refuse into Trailer. **10.** Rear view of Trailer

showing it nearly loaded. Loads from Hopper are in motion along inside top

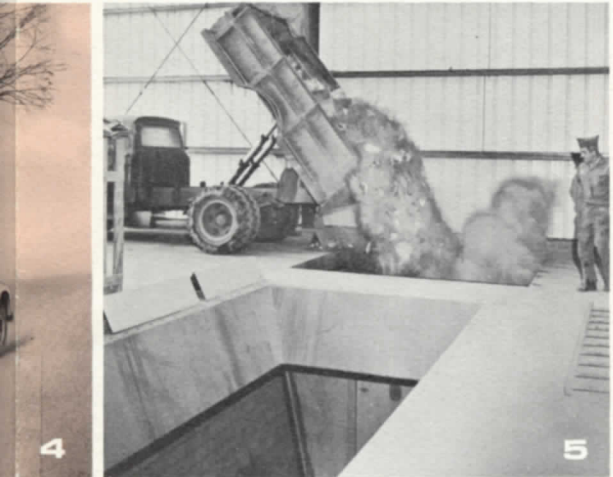
**WHY A CENTRALIZED REFUSE COLLECTION SYSTEM?** There are several reasons . . . As cities grow, refuse disposal problems grow with them at an ever increasing rate. To get rid of the collected refuse, you either burn it or bury it. In the case of burning (incineration), you end up still burying part of it . . . the unburnables.

Also, a part of the problem . . . Collection units, are often not large enough when the Disposal sites are forced back further and further into outlying areas.

The answer: Design a system and Transfer units. Collection units. "Area." In the center of this Collection Station where refuse is transferred from Hopper . . . into a Trailer unit.

Leach Company . . . borrowing engineering abilities so well expressed in PACKMASTER . . . has such a system

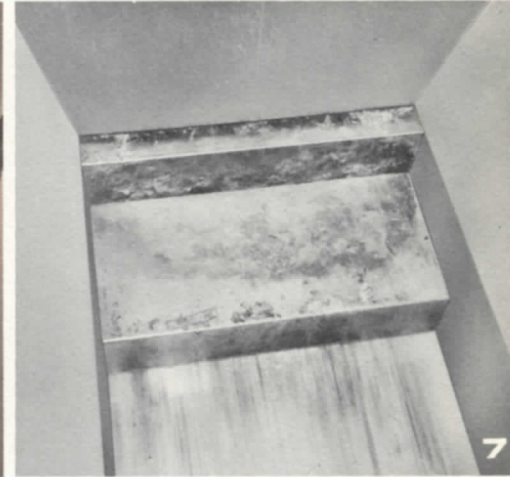
# CUSTOMIZED TO YOUR LOCAL NEEDS!



4. LEACH PACKMASTER  
umping into larger Hopper  
level. 5. Upper level  
open-bed trash truck



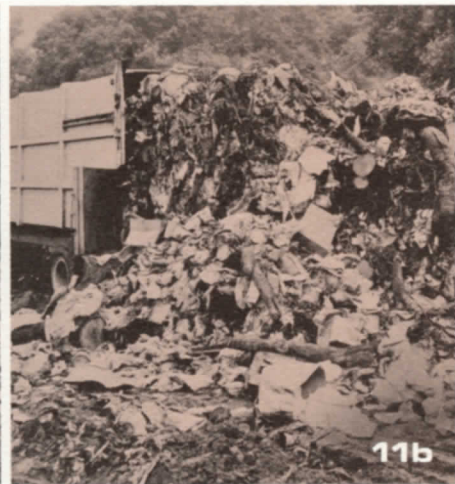
6. dumping into Hopper. Trailer could assimilate almost unending loads of this type. 6. Looking down into Hopper. Compaction-Plate working in and out along Hopper floor,



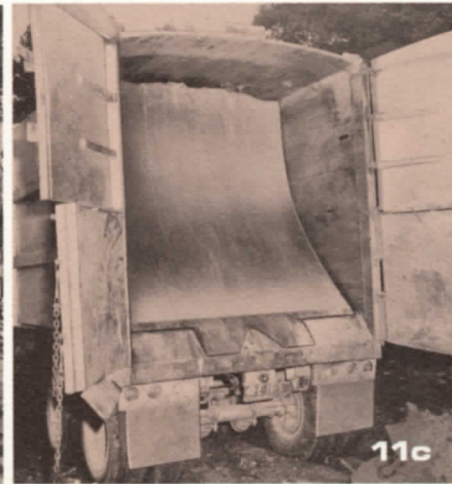
7. quickly and efficiently compresses loads inside Trailer. 7. Compaction-Plate and Hopper floor virtually clean after last Hopper load has been compacted inside Trailer.



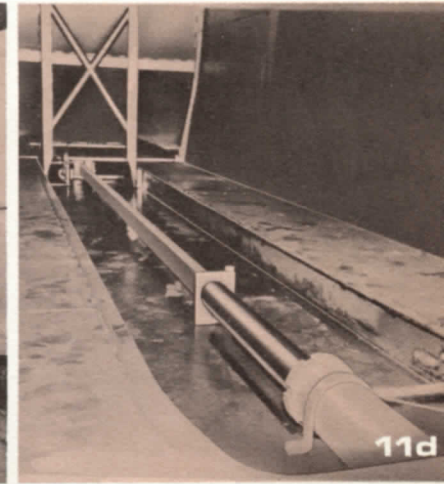
11a. loaded. Very important . . .  
r are built up in circular  
top of trailer . . . to front



11b. . . then around to rear, thus filling all voids.  
11a. GOING . . . GOING . . . 11b. GONE!  
11c. Trailer Push-Out Plate in



11c. fully extended position. 11d. Inside emptied trailer showing Trailer's push-out mechanism.



em which combines Collection units  
units, then, work in a "Collection  
Collection Area, establish a Transfer  
ferred . . . through a Compaction

wing from its extensive design and  
exemplified in the famous LEACH  
system. Fully "Customized" to meet

all of today's refuse collection conditions . . . i.e., household . . .  
industrial . . . heavy population . . . light population; it provides the  
most practical method ever offered to solve the growing . . . already  
gigantic . . . refuse disposal problem.

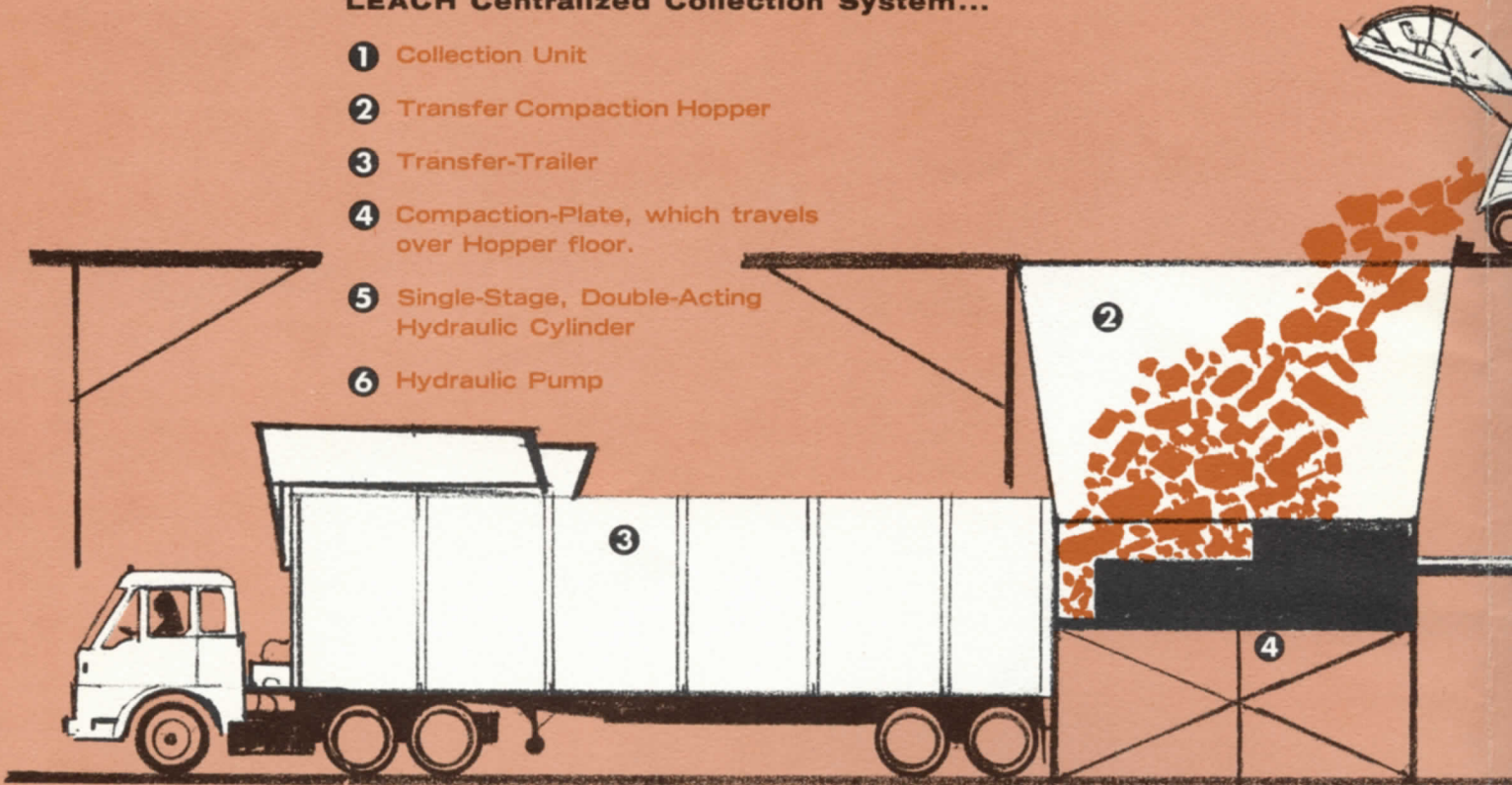
**A "RIGHT-SIZE" SYSTEM  
FOR YOUR CITY!**

# THE LEACH CENTRALIZED COLLE

...DESIGNED TO ME

## Basic components of the LEACH Centralized Collection System...

- 1 Collection Unit
- 2 Transfer Compaction Hopper
- 3 Transfer-Trailer
- 4 Compaction-Plate, which travels over Hopper floor.
- 5 Single-Stage, Double-Acting Hydraulic Cylinder
- 6 Hydraulic Pump



### COLLECTION UNITS VS TRANSFER-TRAILER UNIT

#### THIS IS THE PROBLEM . . .

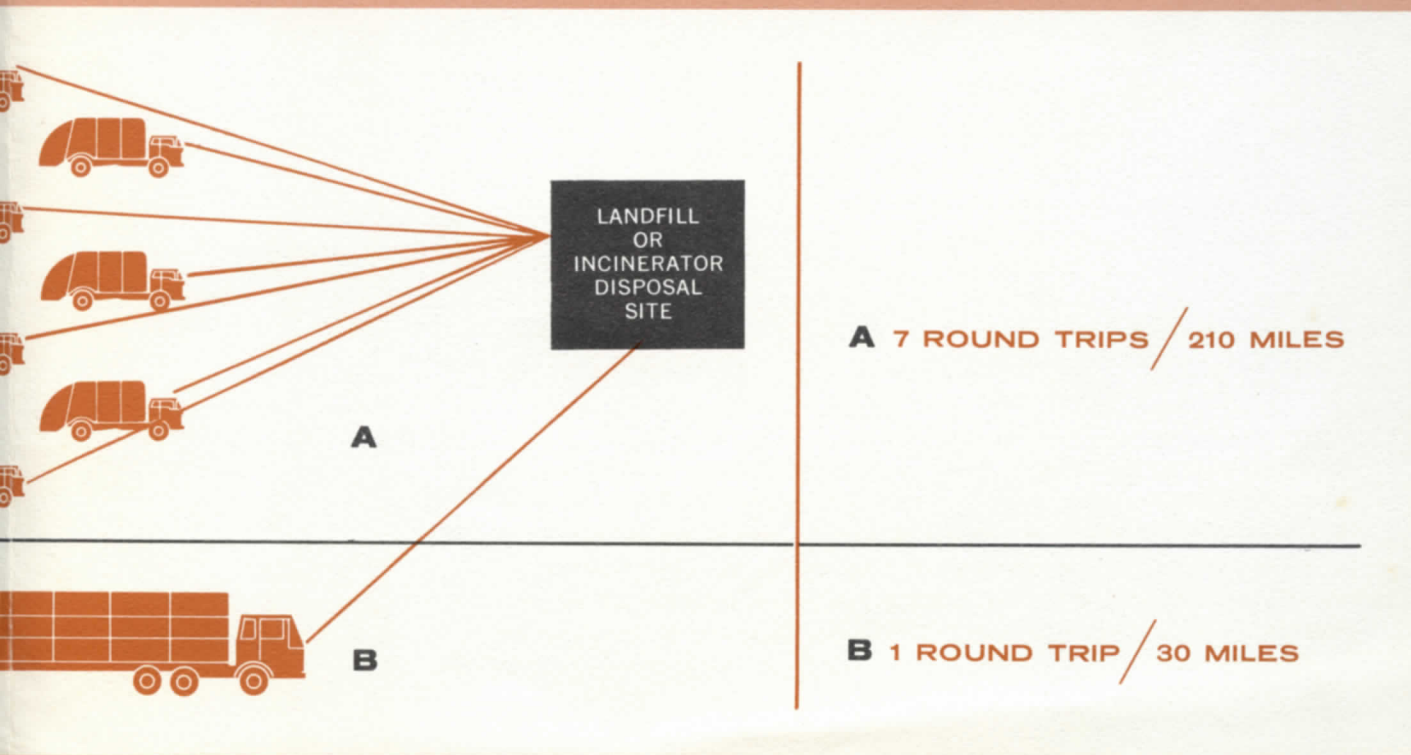
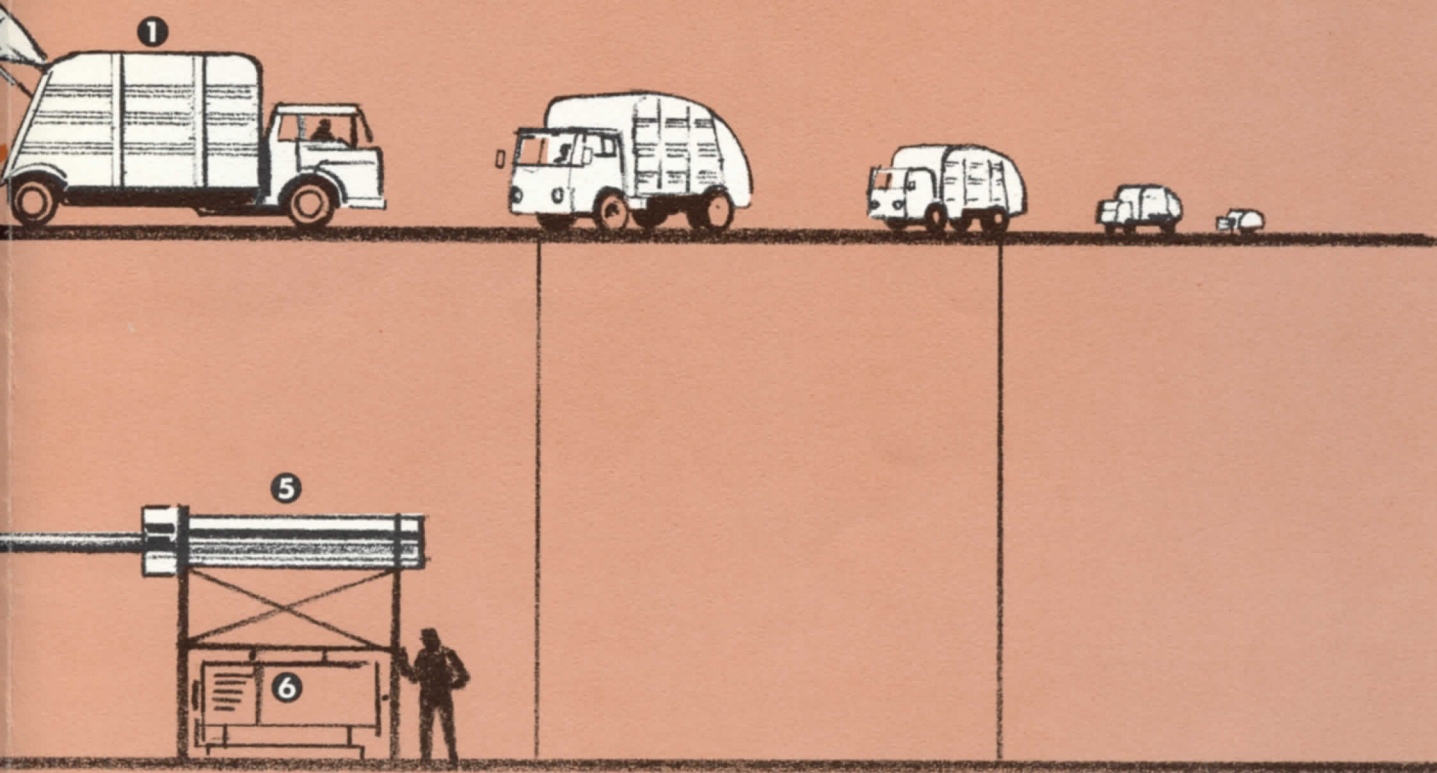
In refuse collection and disposal practices, "Travel-Time" is wasted time. As cities become larger, refuse disposal areas move further and further away. **Collection** units, if they travel over a certain distance, reach a point of diminishing returns\*\* Beyond this distance, it is more economical to employ the larger Transfer-Trailer unit, thus reducing travel time to and from disposal site to a minimum. Diagram above clearly illustrates this concept.

\*\*Under actual conditions, in a metropolitan area, it was accurately determined that when Collection units travelled over a distance of 10 miles to its disposal site, it was more economical to establish a Transfer Station at this point. In other words, in heavily populated areas, the most economical method of refuse disposal is to install centralized Collection Stations at a radius of every 10 miles.



# LECTION SYSTEM

MEET THE NATION'S GROWING REFUSE DISPOSAL PROBLEM



## QUESTIONS AND ANSWERS:

**Q. Again, what is the main purpose of the LEACH Centralized Collection System?**

**A.** To reduce the growing cost in refuse disposal resulting from the fewer and fewer disposal sites available.

**Q. What are the basic advantages to the LEACH system?**

**A.** It is an extremely efficient and complete system. (1) Collection vehicles are used only for the Collection function. (2) Next, the refuse of several Collection units is compacted through a Hopper into a large Trailer designed specifically to fill the Transport function. (3) The Transport unit then carries the refuse to the disposal area in quantities up to the maximum load limits. (4) One manufacturer, Leach Company, Oshkosh, Wisconsin builds all three components: Collection unit, Hopper and Trailer unit. All are designed to function as a unified System.

**Q. Why are Collection vehicles considered too expensive**

**for the Transport function?**

**A.** There are too many "waste factors" involved. (1) An extra man for loading is required with each Collection unit. His time can be better utilized than riding to and from disposal areas. (2) Extra gas, oil, and tire wear are expended by Collection units going to and from disposal areas with less than maximum loads. (3) Control of drivers' and helpers' time is more difficult to supervise when Collection units travel long distances to and from disposal areas.

**Q. How can I find out if a LEACH Centralized System is practical for my particular locality?**

**A.** Ask us to Survey it. A complete cost analysis will be made of all facets of your collection and disposal problems. Write either Distributor, whose name is imprinted below, or Elgin Leach Corporation, 222 West Adams Street, Chicago 6, Illinois.

## SPECIFICATIONS:

### HOPPER (STANDARD)

30-Yard Capacity. Built of heavily reinforced  $\frac{1}{4}$ " steel plate. Top opening, approximately  $10\frac{1}{2}' \times 10\frac{1}{2}'$ , tapering to  $7' \times 7'$  where it opens into Hopper Chamber.

### HOPPER (OPTIONAL)

Larger Capacities available to meet local requirements. Hopper built to same structural specifications as stated.

### COMPACTION UNIT

Components:

1. Heavy-duty, single-stage, double-acting hydraulic cylinder.
2. High Pressure Hydraulic Pump.
3. 200-gallon capacity Hydraulic Tank.
4. Auxiliary electric motor.
5. Compaction Plate constructed of high strength reinforced steel plate.
6. Steel superstructure to support Compaction Unit.

Hydraulic cylinder actuates Compaction Plate in forward and backward action freely within compaction Chamber area.

### TRAILER (STANDARD)

Unit is constructed of heavily reinforced steel with multiple axles.

Length 38'; Height  $12\frac{1}{2}'$ ; Width 8'. Weight 22,940#s (approx).

Rated Capacity: 75 yards (approx).

Openings: Rear, 2 sets. Heavy-duty double doors. Upper set of

two doors open for loading of trailer. Both sets of doors open for unloading of trailer.

**Top: (Optional)** Two doors,  $8' \times 10'$  at front end of trailer. Purpose to permit a second Collection vehicle to load simultaneously with Collection vehicle loading conventionally into Hopper. Doors actuated either manually or hydraulically.

### Push-Out Plate

Components: Heavy-duty, single-stage, double-acting hydraulic cylinder, steel bar and heavily reinforced steel Push-Out Plate. Push-Out Plate pushes load out of trailer during dumping operation.

### TRAILER (OPTIONAL)

To be built under same structural specifications but available in larger or smaller sizes to meet particular local requirements.

### TRAILER TRACTOR

Available from any standard truck manufacturer. Size to be dependent on size of Trailer Unit selected. Tires, Axle capacities, brakes, etc. to be chosen to meet customer's specific requirements.

### COLLECTION UNIT

LEACH PACKMASTER in 13 through 20 yard sizes. Particular capacity PACKMASTER to be determined by local collection requirements. This unit recommended because of its ability to compact maximum loads as well as its reliable record of trouble-free performance.

elgin

## ELGIN LEACH CORPORATION

leach

SANITATION HEADQUARTERS

222 West Adams Street • Chicago 6, Illinois

OVERSEAS DISTRIBUTION:

THE VREELAND INTERNATIONAL CORPORATION  
393 - 7th Avenue • New York 1, New York

L. I. SANITATION EQUIPMENT CO., INC.  
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SYOSSET, N. Y. 11791