

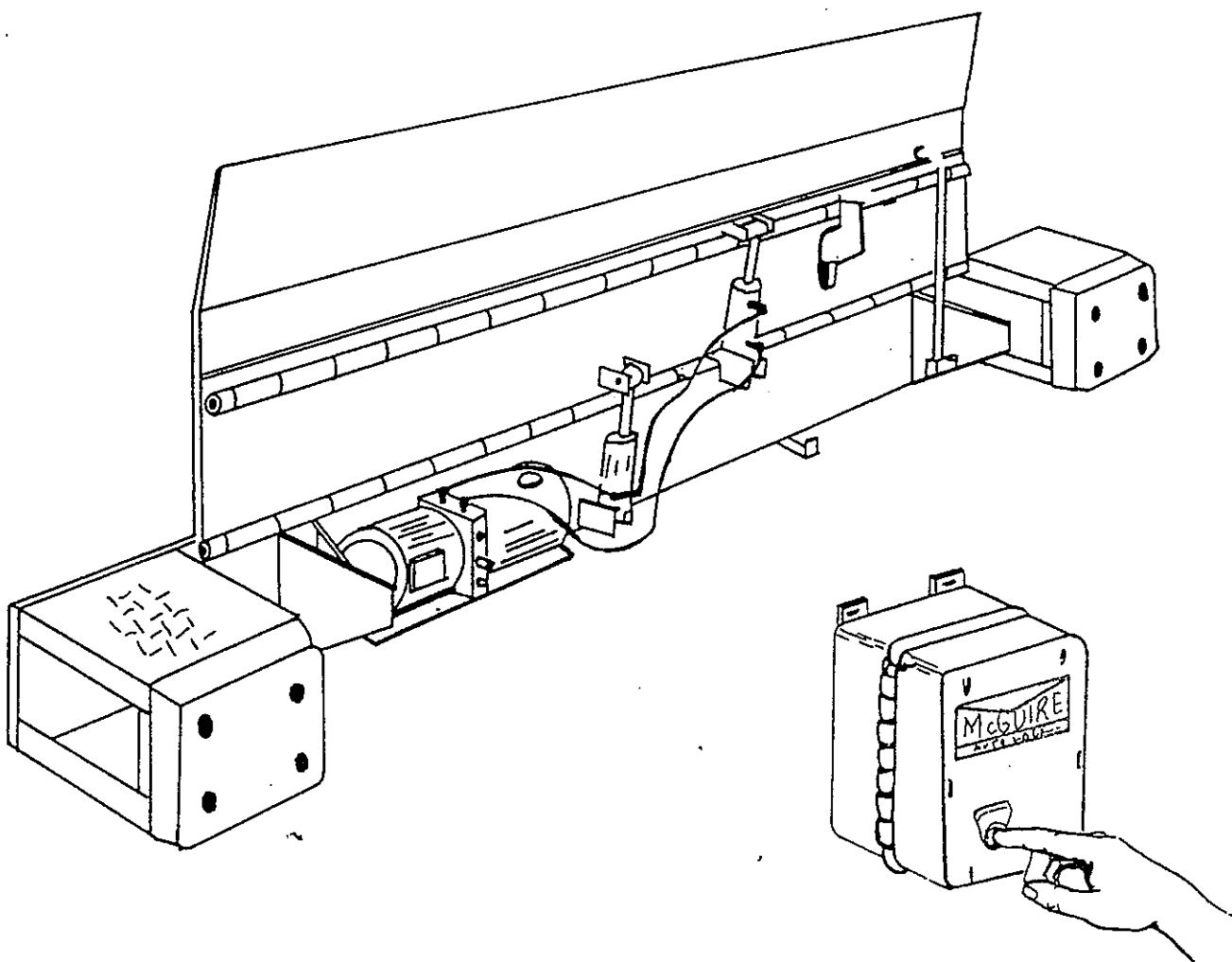
OWNERS MANUAL

OPERATION - SERVICE - PARTS

FOR HYDRAULIC LEVELER MODELS

EOD - PR - R

REV. 10-30-87



The McGuire Co., Inc.
One Hudson Avenue
Hudson, N.Y. 12534
(518) 828-7652

MCGUIRE

MAINTENANCE

1. Keep area around the dock free of dirt and debris.
2. Always place service leg in supporting position when working on ramp components or performing maintenance chores. (Ref. page 5, item 6).
3. Grease hinge spools as conditions warrant. Be sure lip lock operates freely.
4. If hydraulic oil in pump reservoir is ever required, add Automatic Transmission Fluid Type F.

NOTE

The tank cap is also a "breather" cap. **Do not** replace cap with a plug. (System needs to breathe.)

5. Check all hardware to be sure it is tight and be sure that cotter pins are in clevis pins. Replace any missing hardware or parts.
6. Tighten hardware if bumpers are loose.
7. Replace worn or torn bumpers.

TROUBLESHOOTING

RAMP AND LIP WON'T RAISE (MOTOR NOT RUNNING)

1. Check overload relay on motor starter, check for burnt out heaters - replace if necessary.
2. Check electric power source and fuses or breaker.
3. Check power at control box operate button. Use a jumper to test for faulty operate button.
4. Check motor lead connections. Be sure all wire nuts are in place.

5. If power goes through button but motor does not operate, inspect motor for "burnt" windings. ("Burnt" windings will give off a "burnt" odor.) If motor is burnt, replace it. Remove and replace any faulty electric parts.

RAMP WILL NOT RAISE (MOTOR RUNNING OR HUMMING)

1. Load on ramp - remove the load. (The dock ramp was not designed to lift more than its own weight.)
2. Wrong rotation of 3 phase motor - reverse any two (2) wires at the starter terminal.
3. Motor single phasing (3 phase) - check line fuse or loss of power in one of power lines.
4. Motor humming - voltage drop due to insufficient line capacity. Check voltage at the motor with the motor running. Also test for amperage draw at the motor.
5. Low on fluid - add fluid. (See maintenance section, item 3.)
6. If electric circuit is operating correctly and the motor runs, check for oil flow through the hose to main cylinder connections.

7. Be sure the cylinder is properly pinned to top and bottom lugs on the leveler.

8. Pools of oil indicate external oil leaks. Check connections and seals on cylinder and power unit. Repair/replace as necessary.

9. Motor or pump unit physically or electrically damaged - replace.

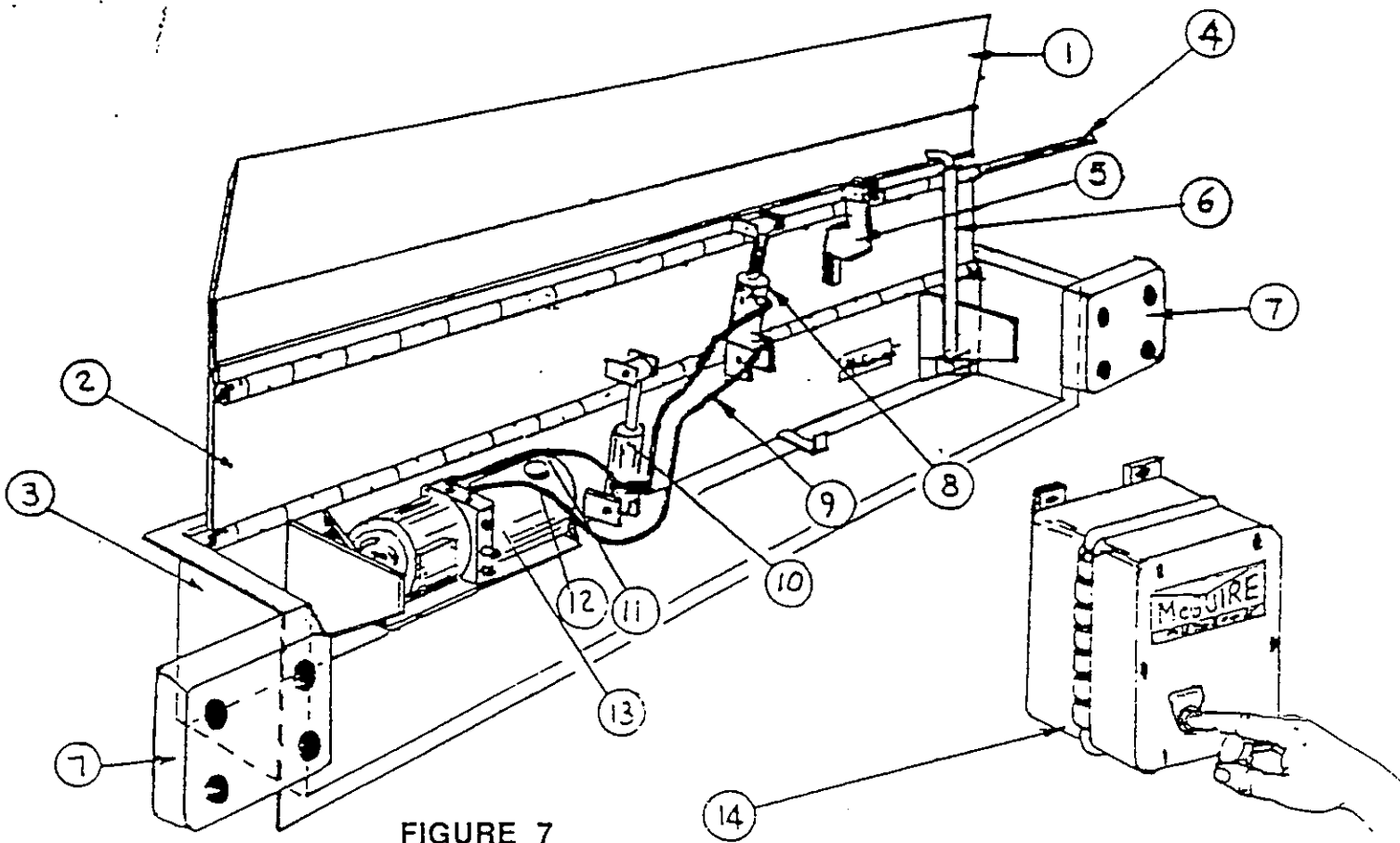


FIGURE 7

Item	Description	RP Model 6620	RP Model 7720
1.	Lip Plate	523-022	523-023
2.	Platform Plate	523-024	523-025
3.	Rear Mtg. Plate w/Pan		
4.	Hinge Shaft	523-030	523-031
5.	Latch	113-127	113-127
6.	Service Leg	523-063	523-063
7.	Rumper (Shipped loose)	106-057	106-057
8.	Lip Cylinder	111-131	111-131
9.	Hose	111-129	111-129
10.	Main Cylinder	111-132	111-132
11.	Hose	111-130	111-130
12.	Hose	111-128	111-128
*13.	Motor/Pump Unit	111-002	111-002
*14.	Control Box		

* When ordering these parts, factory must have voltage used.

OPERATION

1. Operate dock ramp only with truck in position, firmly against dock bumpers. (See Fig. #1).

2. The wheels of the truck/trailer must be chocked to prevent the possibility of the truck/trailer rolling away from the dock.

3. Press and hold the operate button on the control box. (See Fig. #2). Press button until the ramp and lip are fully extended and the lip lock is engaged. (See Fig. #3).

4. Remove finger from operate button. The leveler will descend to the work position. (See Fig. #4).

5. When the truck/trailer leaves the dock, the lip automatically folds to a hanging position. In this position, end loads can be handled or other trucks can back in for loading.

6. To return the leveler to the stored position with a truck still at the dock, proceed as follows:

Press and hold the operate button until the lip is fully retracted and the platform raises enough to allow lip to clear the truck bed. Release the button and the leveler will settle to its stored position as in fig. #1.

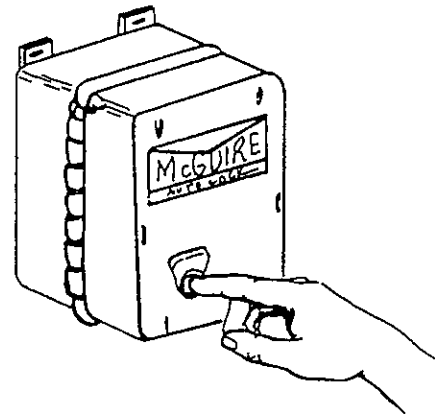


FIGURE 2

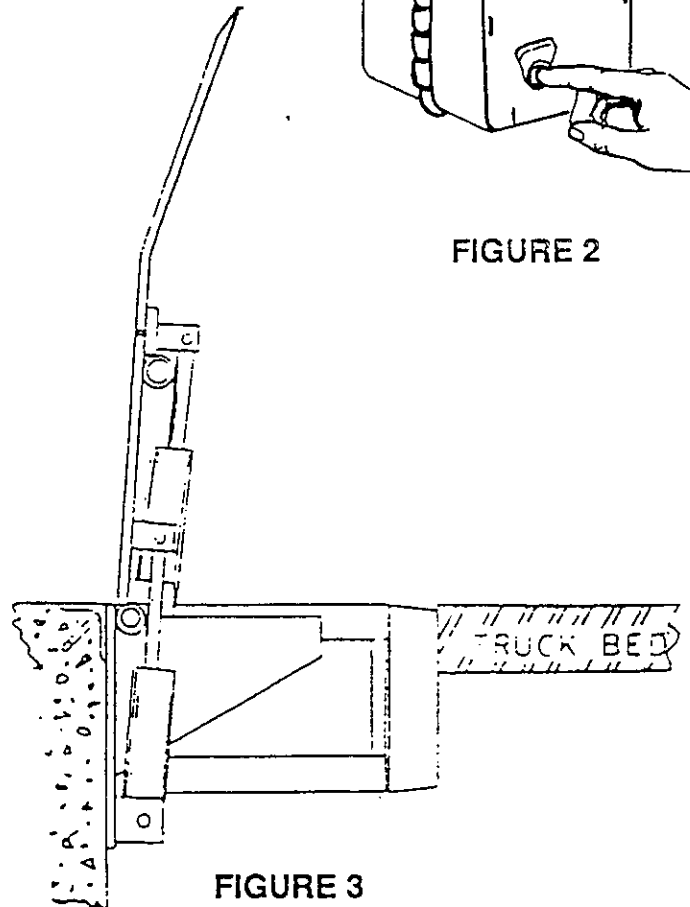


FIGURE 3

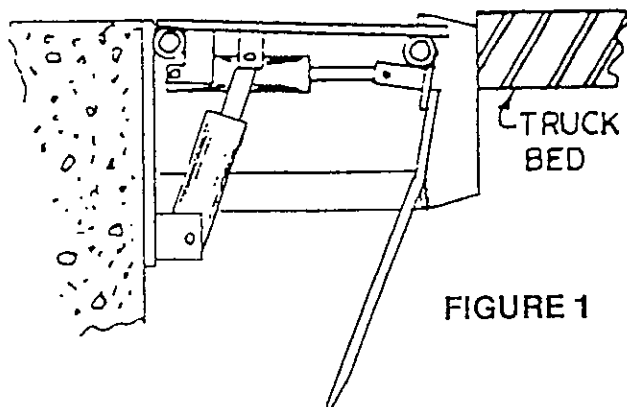


FIGURE 1

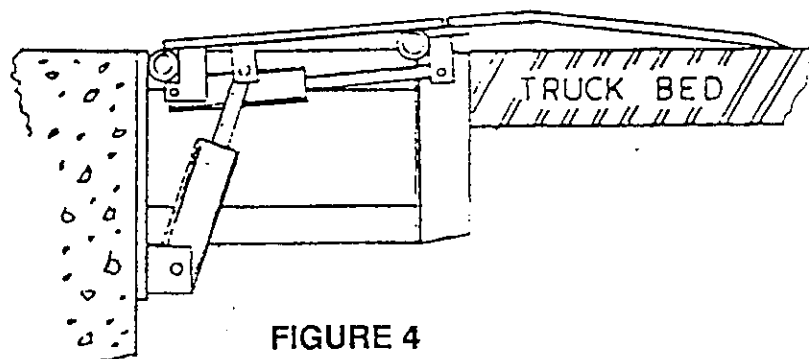


FIGURE 4

SPECIFICATIONS

COMPONENT SPECIFICATIONS

MOTOR: 1 HP.

Motor Voltage (Alternating Current)	RPM	HZ	Phase	Amp. Draw Motor Running	Electric Service Amperage Required
115	3450	60	1	15.0	30*
230	3450	60	1	7.5	20
208-220-240	3450	60	3	4.0	10
440-460-480	3450	60	3	2.0	10
380	2350	50	3	2.0	10

*Sufficient voltage must reach the Leveler control cabinet to operate the 1 HP motor, which draws 25 amps starting and 15 amps running. Voltage drop caused by wiring a long distance or undersize wire will increase the amperage and kick out the breaker. We recommend #10 wire on short runs from the electrical source to the control cabinet and #8 wire on long runs.

FLUID CONTENT:

Aircraft hydraulic fluid type 89, pour point - 75 degrees (f)

REPLACEMENT HYDRAULIC FLUID:

Aircraft hydraulic fluid type BB (Available from the factory)

Acceptable substitute** Automobile automatic transmission fluid Type F
(Ford Motor Company cars) pour point - 55 degrees (f)

(second choice) - - - - - Automobile automatic transmission fluid Type A (all
transmissions except Ford) pour point - 50 degrees (f)

SYSTEM CAPACITY

All Hydraulic Edge of Dock Levelers:

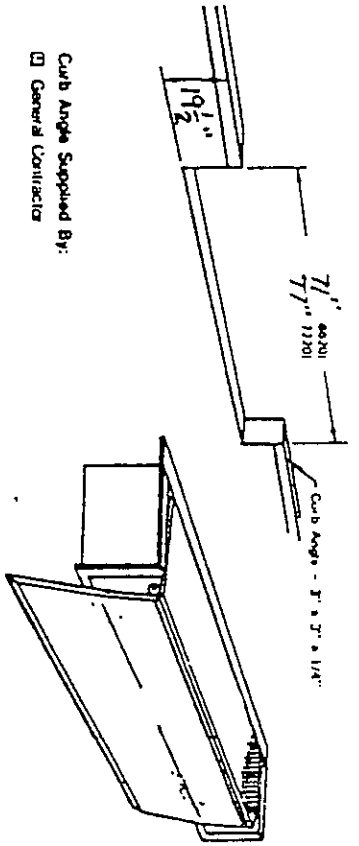
(tank) 4 quarts

(system) 4 1/2 quarts

- - - Tank full line (with ramp and lip "up") 1 1/2" below top of tank -

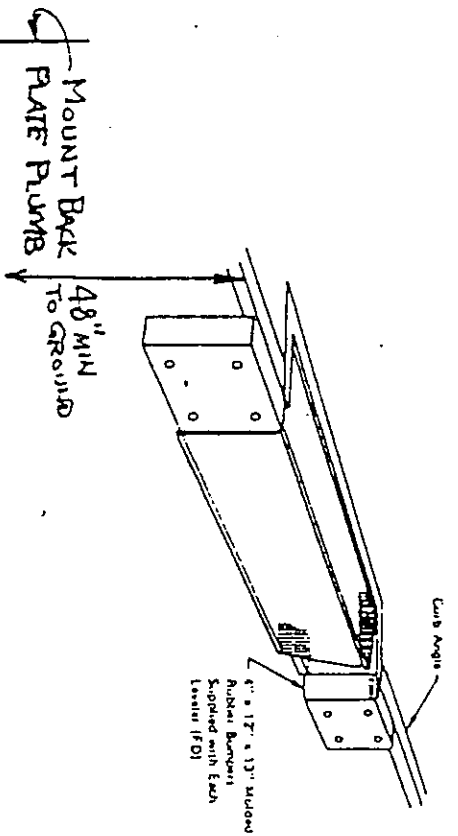
* Adding Transmission Fluid to Aircraft Fluid is acceptable.

Retaining Wall



Curb Angle Supplied By:
 General Contractor

Installation with Standard Bumpers

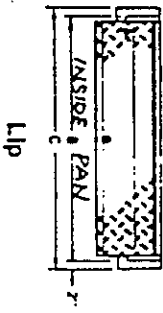


Dimensional Data

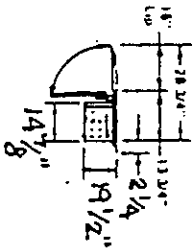


Model	A	B	C
R.P. 6430H	66"	67"	71"
R.P. 7220H	72"	73"	77"

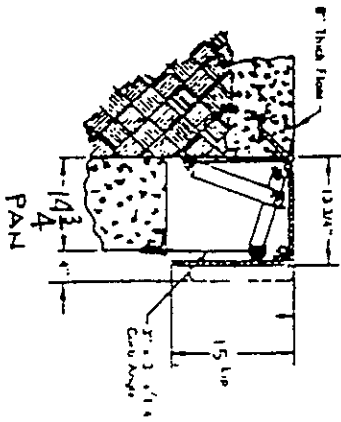
Deck



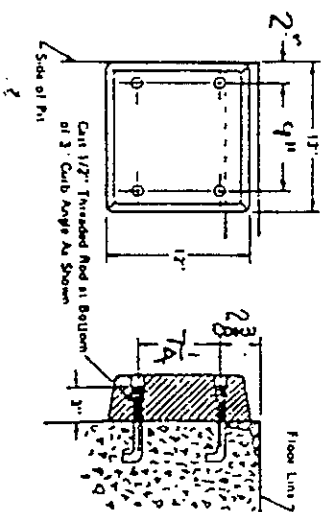
Lip



Cutaway of Installation



Bumper Stud Location

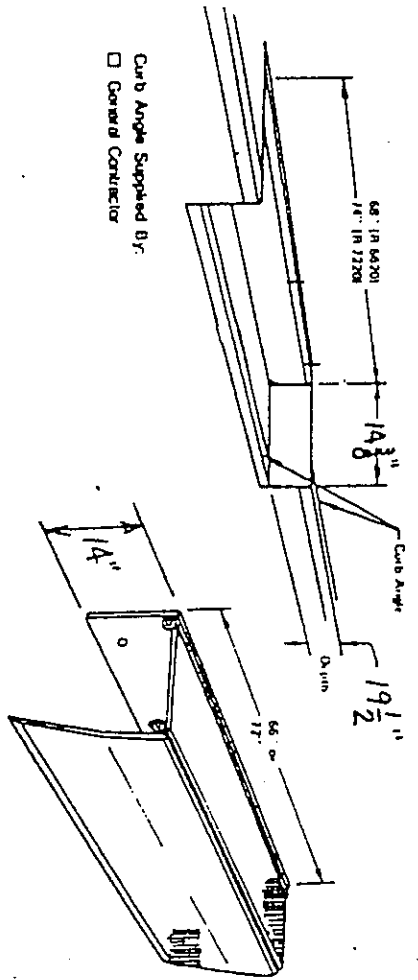


McGUIRE

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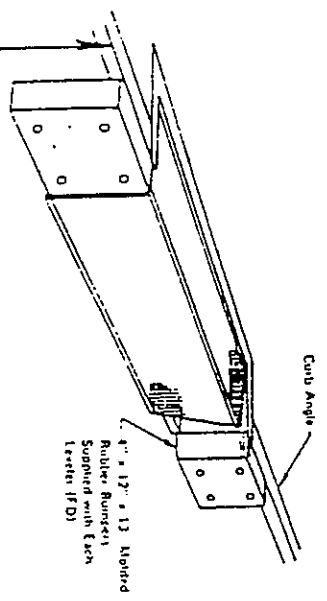
Model R.P.		PROJECT	
SUBMITTED BY		LOCATION	
ARCHITECT		CONTRACTOR	
CONTRACTOR		DOCK LEVELER	
SEET NO. _____		OF _____	

Pit Construction



Curb Angle Supplied By:
 General Contractor

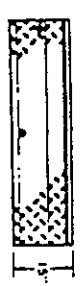
Installation with Standard Bumpers



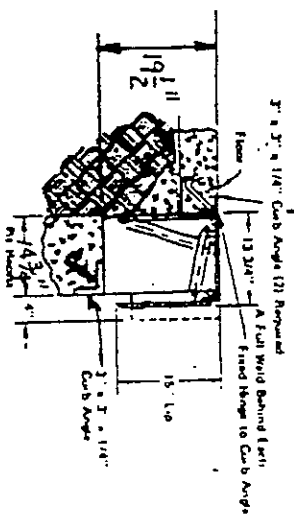
Dimensional Data



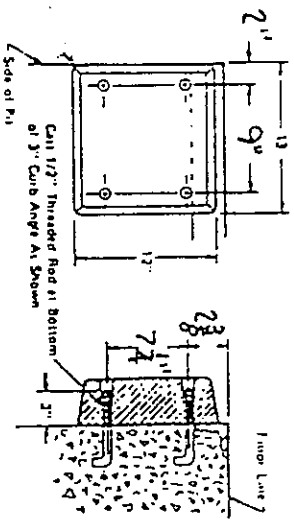
Model	A
R-0620 H	66"
R-2220 H	72"



Cutaway of Installation



Bumper Stud Location



HYDRAULIC

Model R-
 SUBMITTED BY

PROJECT
 LOCATION
 ARCHITECT
 CONTRACTOR

W.B. McGuire Co., Inc.
 One Hudson Ave., Hudson, N.Y. 12534
 Telephone: (518) 828-7552
 Telex: AUTODOX HUON 145-480



DOCK LEVELER
 SHEET NO. _____ OF _____