



# CITY OF LODI

# COUNCIL COMMUNICATION

AGENDA TITLE: Purchase of Pole Setting/Equipment Handling Device

MEETING DATE: June 1, 1994

SUBMITTED BY: Electric Utility Director

**RECOMMENDED ACTION:** That the City Council concur with the recommendation to purchase a modular pole setting/equipment handling device from the sole supplier Reedrill Texoma, Sherman, Texas, in the amount of \$13,600 plus shipping.

**BACKGROUND INFORMATION:** The Electric Utility Department has been searching for equipment that can assist in erecting utility poles and handle equipment in areas where access is limited and cannot be gained with line trucks, such as backyards.

This specialized equipment is manufactured by Reedrill Texoma as modular units that can be configured for several different functions. Maximum use will be made of this equipment due to the on-going pole replacement program and normal maintenance. The various functions that the modular units provide include:

- . Equipment handling dolly
- . Pole handling dolly
- . Hydraulic pole setting device with power unit

The attached drawings show the different combinations of these modular units.

Only one supplier of this unique equipment exists. In fact, authorized distributors are currently not handling this equipment in Northern California; therefore, a 'direct from factory' purchase has been offered to the Department. Due to the sole supplier situation, it is recommended that the bid procedure be dispensed with per City of Lodi Municipal Code Section 3.20.070 which states:

"Bidding shall be dispensed with only when the commodity can be obtained from only one vendor."

Included in the purchase price is on-site training (\$1,500) in operation and maintenance for all Department employees that will be operating this equipment. Training is required by law.

(continued)

APPROVED

THOMAS A. PETERSON  
City Manager



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Purchase of Pole Setting/Equipment Handling Device  
June 1, 1994  
Page two

FUNDING: Included in the 1993-94 Fiscal Year Budget (\$15,000).

  
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Henry J. Rice  
Electric Utility Director

Attach. (6)

Prepared by: Hans Hansen, Asst. Electric Utility Director

cc: City Attorney  
Purchasing Officer

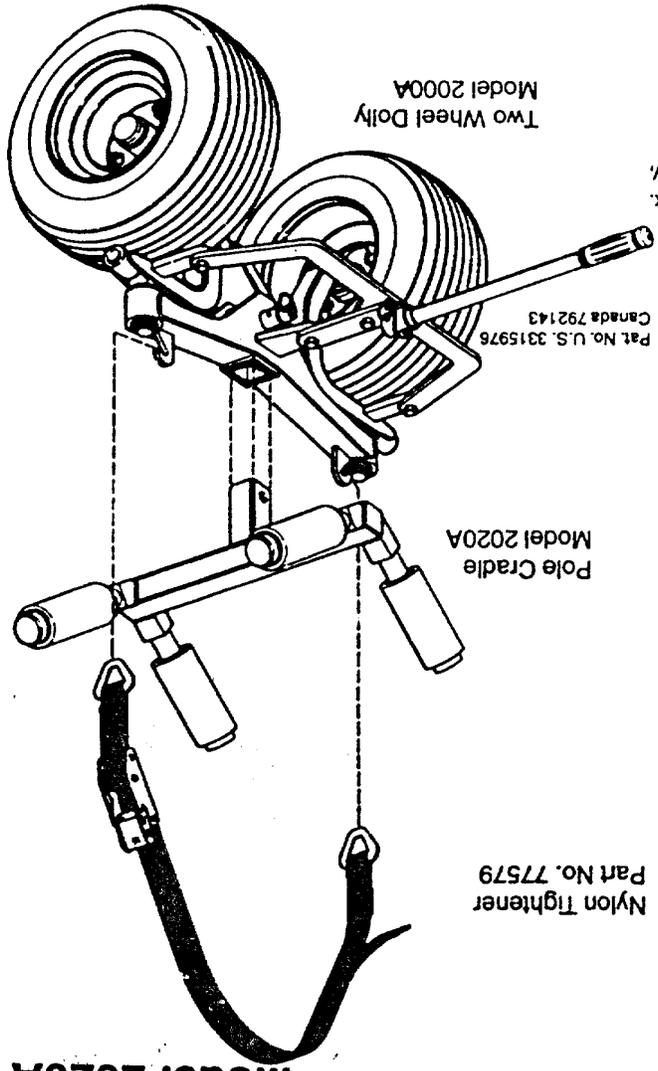
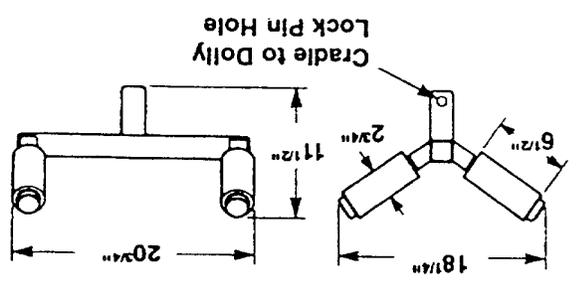
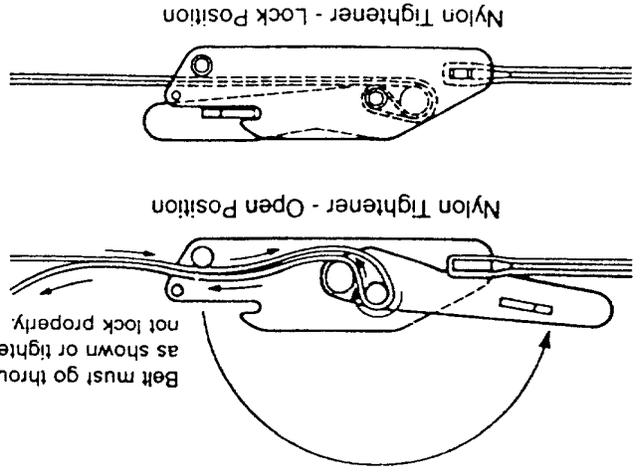
For a complete unit, order:  
 • One - Model 2020A Pole Cradle  
 • One - Model 2000A Two Wheel Dolly  
 (includes nylon load tightener)  
 (includes straight handle)

General Specifications	
Weight Model 2020A Pole Cradle	28 lbs.
Weight Model 2000A Two-Wheel Dolly	105 lbs.
Load Capacity	2,000 lbs.
Steering	180°
Pole-Ground Clearance, dependent on weight	
and diameter of Pole, approx.	22"
Pole supported by 4 rollers and locked	
in position by nylon tightener.	

- I. Cradle Features
  - A. Tapered roller bearings used in cradle rollers
  - B. Strong yet light weight for easy handling.
  - C. Attaches to dolly without tools.

- II. Maintenance
  - A. Coat bare metal (male & female handle and cradle ends) with *Never-Seize NS-160* from Snap-On Tools Corp.
  - B. Grease fittings and pack bearings same as auto.
  - C. Use light machine oil on rest of moving parts.

- III. Operating Instructions
  - A. Maintain even air pressure in both tires, 30 lbs. max.
  - B. When attaching cradle or other components to dolly, lock with spring loaded pin.
  - C. For pole transport - positioning of pole on dolly is made easier by turning wheels at 90° to cradle.



**Pole Cradle Model 2020A**



# Short Deck Model 2030A Long Deck Model 2040A

For a complete unit, order:

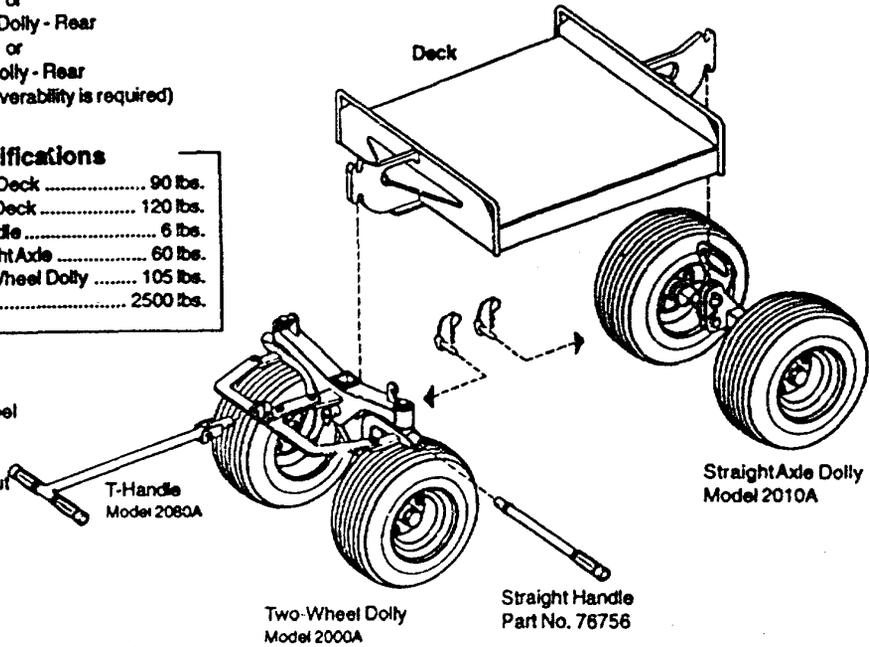
- One-Model 2030A or 2040A Deck
- One-Model 2080A T-Handle
- One-Model 2000A Two-Wheel Dolly - Front  
or
- One-Model 2010A Straight Axle Dolly - Rear  
or
- One-Model 2000A Two-Wheel Dolly - Rear  
(if greater maneuverability is required)

### General Specifications

Weight: Model 2030A, Short Deck	90 lbs.
Weight: Model 2040A, Long Deck	120 lbs.
Weight: Model 2080A, T-Handle	6 lbs.
Weight: Model 2010A, Straight Axle	60 lbs.
Weight: Model 2000A, Two-Wheel Dolly	105 lbs.
Load Capacity, either deck	2500 lbs.

### I. Deck Features

- Extensive use of alloy steel with high resistance to atmospheric corrosion.
- Attaches to dollies without tools.
- Strong, yet lightweight for easy handling.

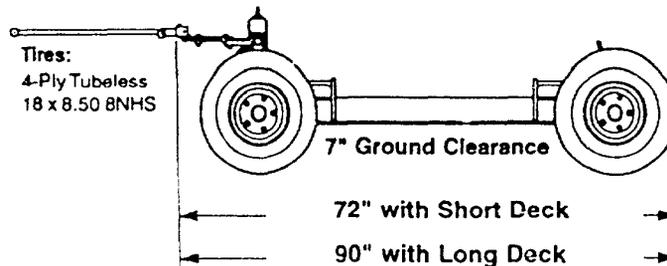
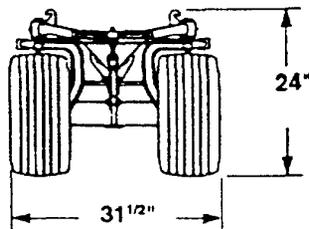
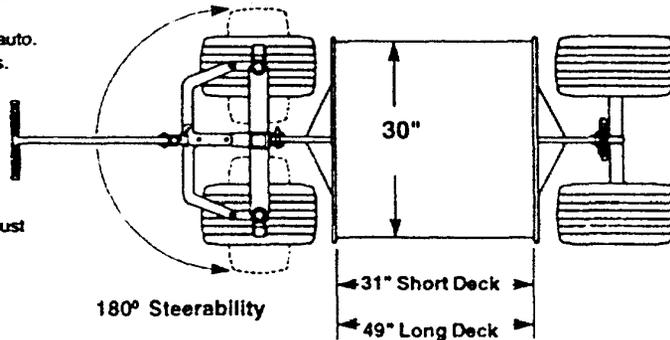


### II. Maintenance

- Coat bare metal (male and female handle ends) with *Never-Seeze NS-160* from Snap-On Tools Corp.
- Grease fittings and pack bearings same as auto.
- Use light machine oil on rest of moving parts.

### III. Operating Instructions

- Maintain even air pressure in all four tires, 30 lbs. maximum
- Make sure all pins are in place before operating equipment.
- When traveling over uneven ground, load must be tied down and the straight handle can be used in the side pocket for stability.



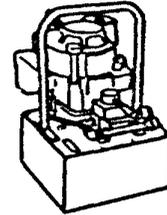
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# Pole Setting Attachment Model 2060D

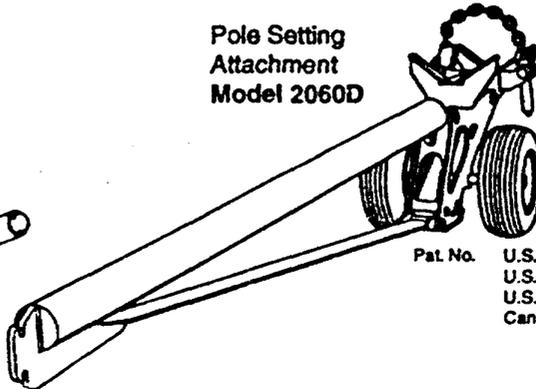
For a complete unit, order:

- One - Model 2060D Setting Attachment
- One - Model 2000A Dolly for 2000 lb. capacity
- One - Model 2020A Pole Cradle
- One - Model 9001B Gas / Hydraulic Pump
- One - Part No. 77067 Hose Assembly  
(20' non-conductive duplex hose. Includes couplers.)



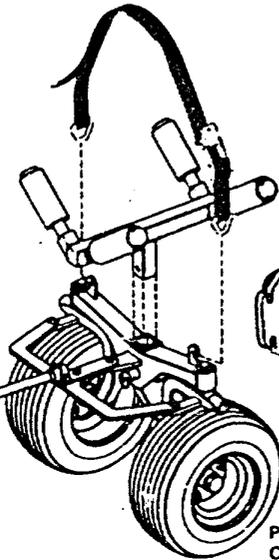
Hydraulic Pump  
Model 9001B

Pole Setting  
Attachment  
Model 2060D



Pat. No. U.S. 3112037  
U.S. 3236398  
U.S. 4362451  
Canada 702904

Nylon Tightener  
Part No. 77579



Pole Cradle  
Model 2020A

Two Wheel Dolly  
Model 2000A

Pat. No. U.S. 3315976  
Canada 792143

### General Specifications

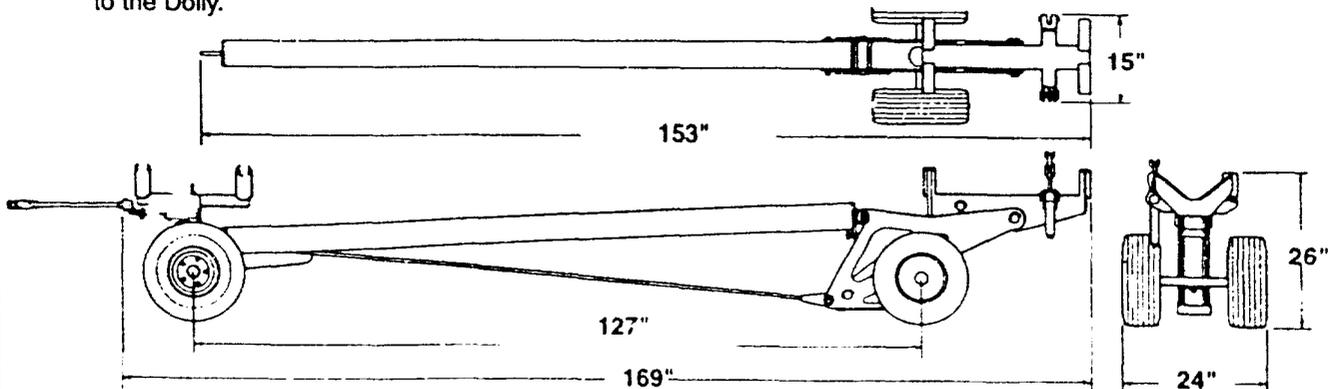
Maximum Operating Pressure .....	8,000 PSI
Maximum Pole Weight:	
When attached to Model 2000A Dolly .....	2,000 lbs.
Maximum Pole Length - dependent on pole weight and balance point from butt. (See Operating Instructions)	
Weight:	
Model 2060D Setting Attachment .....	325 lbs.
Model 2000A Dolly .....	105 lbs.
Model 2020A Pole Cradle .....	28 lbs.
Model 9001B Gas/ Hydraulic Pump .....	76 lbs.
Weight: 20' Hose Assembly .....	7 lbs.

### CAUTION:

Do Not attempt to operate this unit without first being totally familiar with pole setting and pump operating procedures. (See pump bulletin 9001B)

### SPECIAL NOTE:

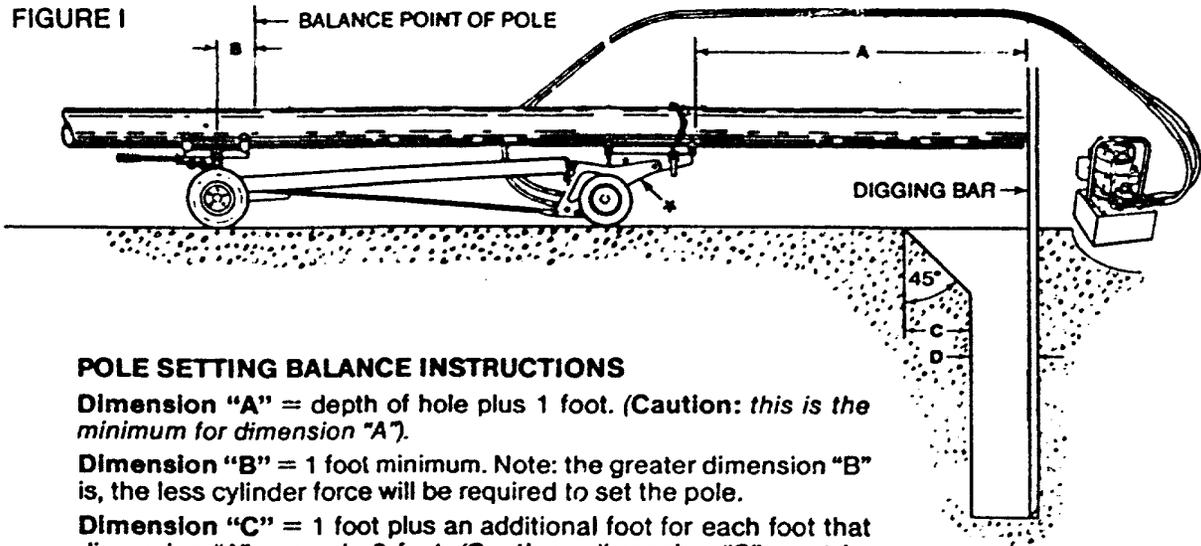
The Two Wheel Dolly-Pole Cradle combination should be used to transport the pole from the street to the rear lot job site. Only then, when the pole has been lined up with the hole, should the pole setting Attachment be connected to the Dolly.



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# OPERATING INSTRUCTIONS

FIGURE I



### POLE SETTING BALANCE INSTRUCTIONS

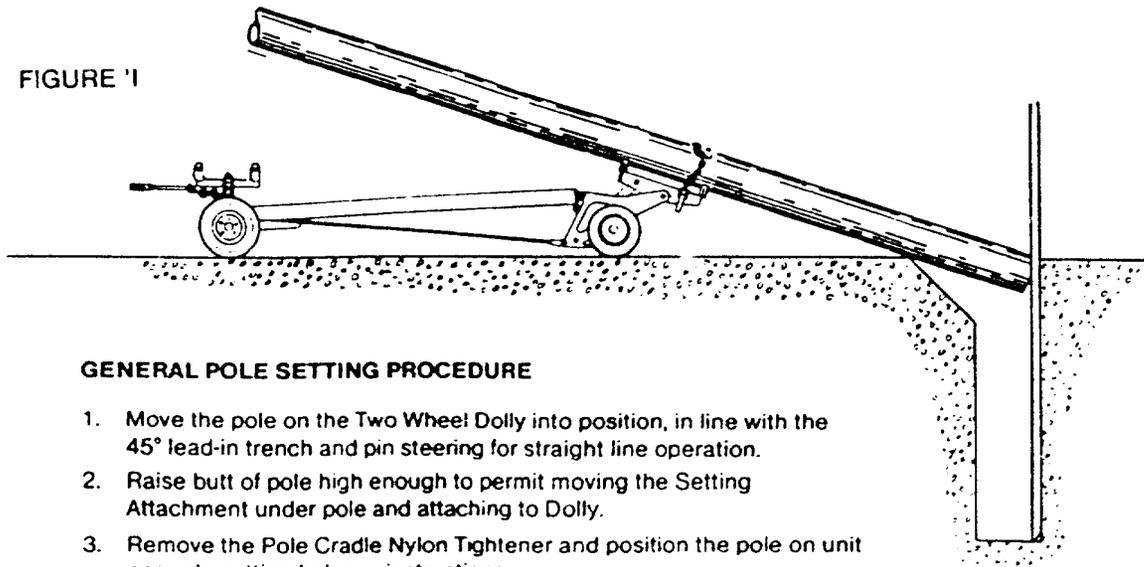
**Dimension "A"** = depth of hole plus 1 foot. (Caution: *this is the minimum for dimension "A"*).

**Dimension "B"** = 1 foot minimum. Note: the greater dimension "B" is, the less cylinder force will be required to set the pole.

**Dimension "C"** = 1 foot plus an additional foot for each foot that dimension "A" exceeds 8 feet. (Caution: *dimension "C" must be maintained in relation to dimension "A" overhang.*)

**Dimension "D"** = diameter of pole butt plus 6 inches.

FIGURE 'I

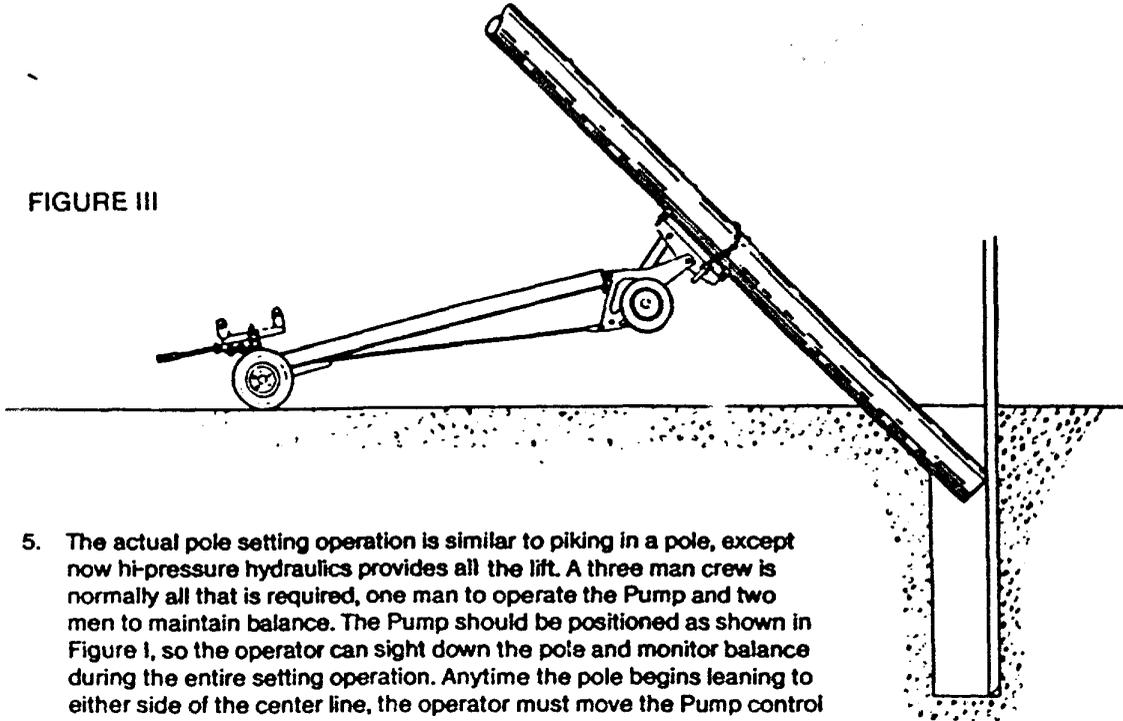


### GENERAL POLE SETTING PROCEDURE

1. Move the pole on the Two Wheel Dolly into position, in line with the 45° lead-in trench and pin steering for straight line operation.
2. Raise butt of pole high enough to permit moving the Setting Attachment under pole and attaching to Dolly.
3. Remove the Pole Cradle Nylon Tightener and position the pole on unit per pole setting balance instructions.
4. Secure Pole Chain Tightener, attach Pump via Hi-Pressure Hose, and double check all pins, couplings, digging bar position, trench alignment, etc. **CAUTION: Trench alignment can be very critical and trench width should be only slightly wider than pole diameter.**

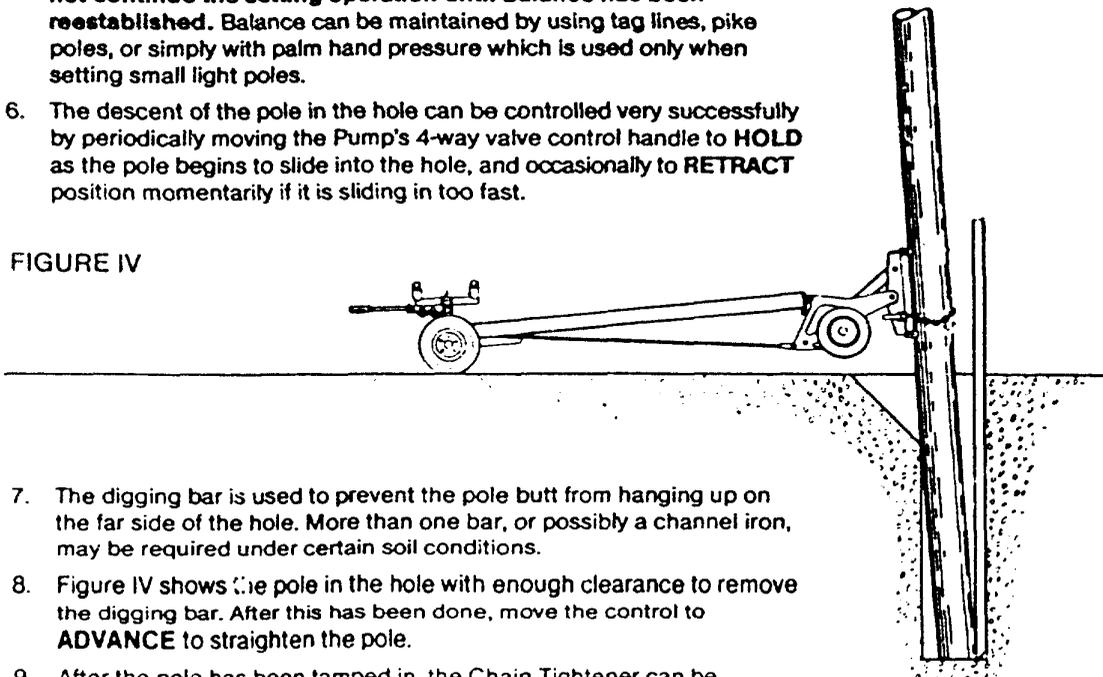
\* If couplers are not completely connected, the cylinder relief valve will operate and discharge oil onto the ground

FIGURE III



5. The actual pole setting operation is similar to piking in a pole, except now hi-pressure hydraulics provides all the lift. A three man crew is normally all that is required, one man to operate the Pump and two men to maintain balance. The Pump should be positioned as shown in Figure I, so the operator can sight down the pole and monitor balance during the entire setting operation. Anytime the pole begins leaning to either side of the center line, the operator must move the Pump control to **HOLD** position, and under his direction have the crew return the pole to balance directly over the Pole Setting Boom. **CAUTION: Do not continue the setting operation until balance has been reestablished.** Balance can be maintained by using tag lines, pike poles, or simply with palm hand pressure which is used only when setting small light poles.
6. The descent of the pole in the hole can be controlled very successfully by periodically moving the Pump's 4-way valve control handle to **HOLD** as the pole begins to slide into the hole, and occasionally to **RETRACT** position momentarily if it is sliding in too fast.

FIGURE IV



7. The digging bar is used to prevent the pole butt from hanging up on the far side of the hole. More than one bar, or possibly a channel iron, may be required under certain soil conditions.
8. Figure IV shows the pole in the hole with enough clearance to remove the digging bar. After this has been done, move the control to **ADVANCE** to straighten the pole.
9. After the pole has been tamped in, the Chain Tightener can be released, the Cradle fully retracted, and the Pump disconnected.

The general pole setting procedure covered herein is intended for fairly level horizontal terrain. We cannot, in this bulletin, cover the unique ways this unit has been used by various Power and Phone company crews as they became proficient in its operation.

In the end, the safest and most productive use of this equipment can only be realized when it is placed in the hands of an alert, well trained, safety conscious crew.

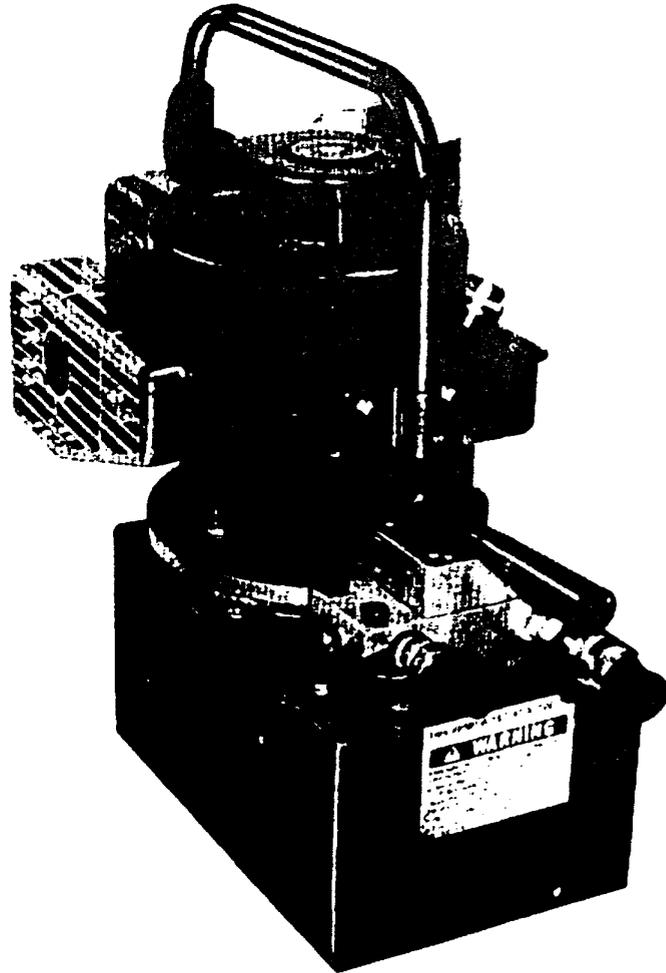
For information about unusual or special applications contact the Thiermann Utility Equipment engineering department.



## High Pressure Power Unit #9001C

### Specifications

- 2-stage pump, 3 radial pistons supercharged by a gear pump
- 4-cycle, 4 HP gasoline engine
- 4-way double acting valve
- Adjustable relief valve up to 10,000 PSI
- Oil delivery - 60 cubic inches at 10,000 PSI
- Reservoir - 2 gallons usable
- Carrying handle - two man
- Height to top of handle - approximately 20"
- Base dimensions - approximately 8" x 12"
- Empty weight - approximately 65 lbs.



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RESOLUTION NO. 94-59

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A RESOLUTION OF THE LODI CITY COUNCIL  
AUTHORIZING SOLE SOURCE ACQUISITION OF  
POLE SETTING/EQUIPMENT HANDLING DEVICE

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WHEREAS, the Electric Utility Department has been searching for equipment that can assist in erecting utility poles and handle equipment in areas where access is limited; and

WHEREAS, Reedrill Texoma of Sherman, Texas is the only manufacturer that can supply the modular pole setting/equipment handling device; and

NOW, THEREFORE, BE IT RESOLVED, the Electric Utility Department is hereby authorized to purchase from Reedrill Texoma, as sole source supplier, pole setting/equipment handling device for a negotiated price of \$13,600.00 plus shipping, which includes \$1,500.00 on-site training in operation and maintenance.

Dated: June 1, 1994

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I hereby certify that Resolution No. 94-59 was passed and adopted by the Lodi City Council in a regular meeting held June 1, 1994 by the following vote:

Ayes: Council Members - Davenport, Mann, Pennino, Snider  
and Sieglock (Mayor)

Noes: Council Members - None

Absent: Council Members - None

  
Jennifer M. Perrin  
City Clerk