

## 1. SCOPE

This standard covers single unit, concrete vaults for three-phase padmount transformers or three-phase below or above ground terminations used on the SUB distribution system.

## 2. CERTIFICATION OF RATINGS

Compliance with Standards and Codes:

The vaults supplied shall be manufactured and tested according to the latest editions, revisions, and amendments in the applicable standards of the industry, especially AASHTO-H2O minimum traffic bearing specifications.

## 3. GENERAL

### 3.1. Size

4' long x 6' wide x 3' 6" high. See drawing on page 3.

### 3.2. Concrete

#### 3.2.1. Strength

Concrete shall have a minimum compression strength of 3000 psi at five days.

#### 3.2.2. Mechanically Vibrated

Concrete shall be mechanically vibrated to maximum subsistence without segregation.

#### 3.2.3. Cured

Concrete shall be properly cured before moving.

#### 3.2.4. Finish

Concrete shall have a smooth-formed finish.

### 3.3. Reinforcement

#### 3.3.1. Design

All reinforcement necessary shall be provided to obtain AASHTO-H2O minimum traffic bearing specifications.

#### 3.3.2. Quality


Re-bar or wire mesh shall conform to the latest ASTM specifications and be free of scale, oil, and defects.

### 3.4. Lifting Inserts

A galvanized pull/lift iron in each corner of the vault base shall be provided.

### 3.5. Sump

An 8" sump shall be provided located in the center of the vault base.

	<p style="text-align: center;"><b>SPRINGFIELD UTILITY BOARD</b> MATERIAL STANDARD DISTRIBUTION VAULTS, CONDUIT, ENCLOSURES 4' X 6' VAULT</p>	<p style="text-align: center;">DATE   DWN   STD   CHK   APP ----- ----- ----- ----- ----- STANDARD NUMBER <b>MSD 4002</b> Page 1 of 3</p>
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### 3.6. Knockouts

3.6.1. Two 18" x 18" sections, with nine 6" waffle-type knockouts shall be provided on each side. Two 12" x 18" sections, with six 6" waffle-type knockouts shall be provided on each end. They shall be arranged per the drawing on page 3. Waffle seams shall be no more than 3/4" thick in order to allow ease of removal.

3.6.2. 1" diameter ground rod knockout per the drawing on page 3.

### 3.7. Marking

Each vault shall be stamped or stenciled with the weight on the outside wall.

## 4. SUB ACCEPTANCE

Upon receipt, all concrete vaults will be inspected and checked for adherence to SUB standards. Vaults rejected will be returned at the supplier's expense.

## 5. WARRANTY

The vendor warrants that the vaults furnished are free from defects in material and workmanship and agrees to repair or replace any vault that is unusable for operation or fails in operation during normal and proper use. This warranty shall be for a period of 12 months from date of installation or 18 months from date of acceptance whichever is earlier.


## 6. ADDITIONAL INFORMATION

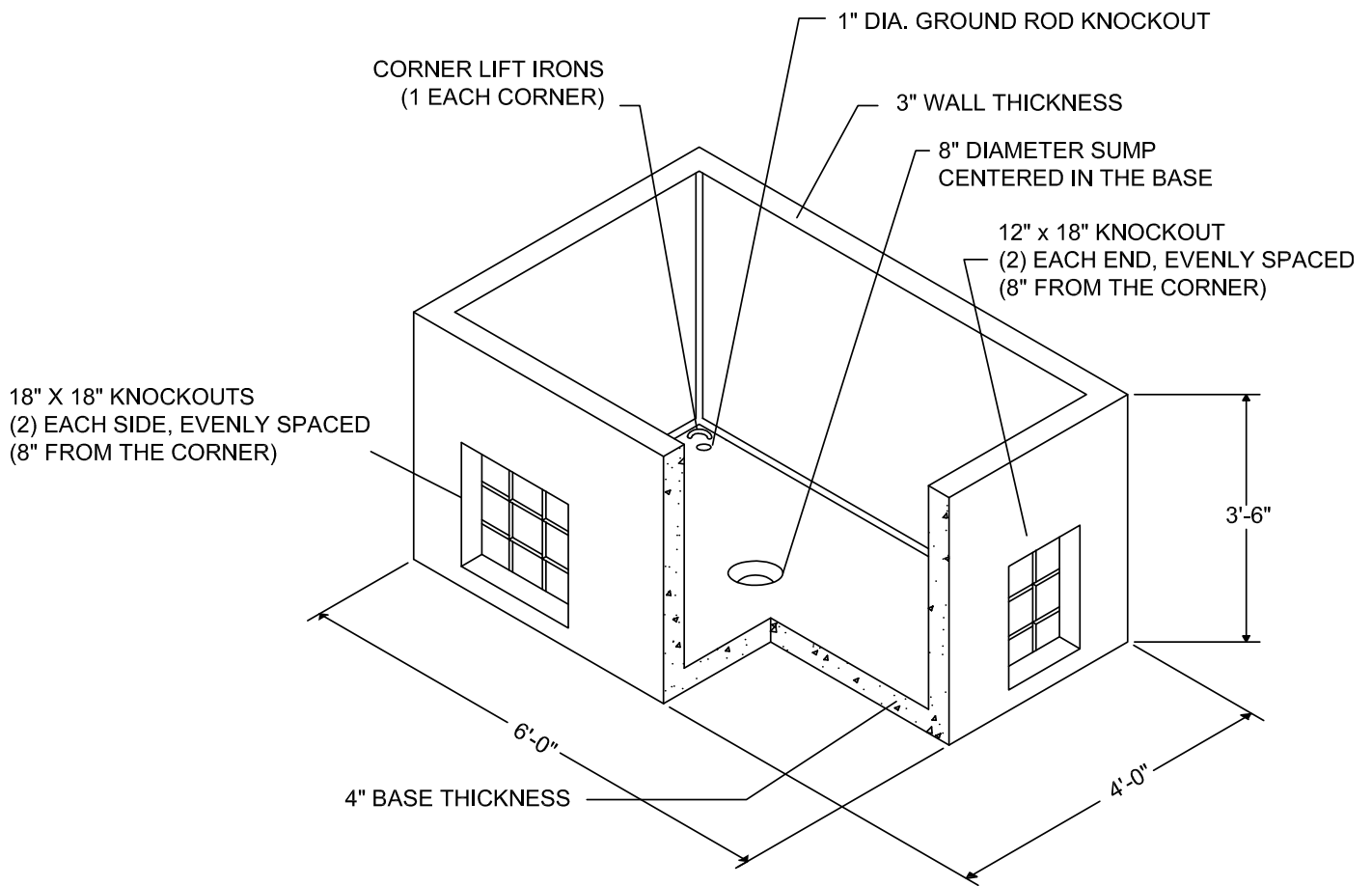
SUB's request for quotation or purchase order must show the following information:

- 6.1. Quantity, size, and weight.
- 6.2. Shipping date and location.
- 6.3. Reference to this standard and date.
- 6.4. Any modifications or exceptions.

## 7. REVISIONS

Date	Description
8/22/2001	Created.
4/5/2007	Re-formatted and updated 3.1, 3.4, 3.5, 3.6
7/1/2008	Updated drawing and section 3.6

	<b>SPRINGFIELD UTILITY BOARD</b> MATERIAL STANDARD DISTRIBUTION VAULTS, CONDUIT, ENCLOSURES 4' X 6' VAULT	<table border="1" style="margin: auto;"><tr><td>DATE</td><td>DWN</td><td>STD</td><td>CHK</td><td>APP</td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table> STANDARD NUMBER <b>MSD 4002</b> Page 2 of 3	DATE	DWN	STD	CHK	APP					
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**NOTES:**

1. STOCK NUMBER 0136-1030
2. THIS VAULT CAN BE USED WITH A THREE PHASE PADMOUNT TERMINATION CABINET 66" X 22" X 30" OR A THREE PHASE SECONDARY TERMINATION CABINET OR A THREE PHASE PADMOUNT TRANSFORMER THROUGH 500KVA



**SPRINGFIELD UTILITY BOARD**  
 MATERIAL STANDARD DISTRIBUTION  
 VAULTS, CONDUIT, ENCLOSURES  
 4' X 6' VAULT

DATE | DWN | STD | CHK | APP

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Page 3 of 3