

# MARKING BURIED ELECTRIC FACILITIES

## 1.0 INDEX


- 1.0 INDEX
- 2.0 PURPOSE
- 3.0 GENERAL
- 4.0 APPLICATIONS
- 5.0 STORAGE AND HANDLING
- 6.0 PLACEMENT AND BURIAL PROCEDURES

## 2.0 PURPOSE

This guide is to provide a standard procedure for installing buried markers / indicators for locating underground electric facilities.

## 3.0 GENERAL

- 3.1 The applicant will be responsible to supply and install all markers as shown on NVE work order drawings. Inspector will field determine additional location(s) as needed.
- 3.2 Markers, NVE Stock Number 25-3125. This is a red, 15" diameter flat marker, and looks like a toilet seat.  
Approved Manufacturers:
  - 3M Model 1251
- 3.3 Markers are provided in **bright red color** for ease of identification as a **NVE electric marker**.
- 3.4 The marker should be buried over any subsurface item which may require location at some future time.
- 3.5 The buried markers can be located with any modern locator:
  - Radiodetection Omni/EMS
  - Antennas, Goldak MLX series locators
  - 3M, Scotchmark ® brand locators
  - Dynatel ® brand EMS marker locators
  - And others, check manufactures specifications

				VOLUME 17 – ENGINEERING & CONSTRUCTION STANDARD		CD0005U
				MARKING BURIED ELECTRIC FACILITIES		
Drawn:	Eng:	Appr:	Date:	Revision: 2		Page 1 of 2
JVV	MB	DA	6/06			

**4.0 APPLICATIONS**

- 4.1 The application of markers requires discretion on the part of the Planners and Field Inspectors. These devices are to be applied at equipment that would be difficult to locate for future construction. The marker may be used to mark / locate a wide variety of buried items, with the primary use of marking / locating conduit stub outs and DB cable splices.
- 4.2 The marker is particularly effective for use in joint trenches due to the fact that each utility will have a designated frequency and color for this type of marker.

**5.0 STORAGE AND HANDLING**


- 5.1 The markers should be stored inside their shipping containers until ready for placement in the field. The markers should not be stored in direct sunlight or at temperatures in excess of 100° F for an extended period of time.
- 5.2 Reasonable care in handling and placement must be taken to prevent damage to **the waterproof outer case.**

**6.0 PLACEMENT AND BURIAL PROCEDURES**

- 6.1 The marker may be buried to a maximum depth of 8'.
- 6.2 Burial Procedures:

Marker should be buried flat, directly over the installation to be marked and at least 6" above the facility. This minimum separation is necessary to insure maximum radiated signal from the marker to the Detector. Markers must be buried flat and covered with at least 4" of firm soil to prevent accidental movement of the marker during backfill.

***Do not place Markers within 4" of any buried metal.***

				VOLUME 17 – ENGINEERING & CONSTRUCTION STANDARD		CD0005U
				MARKING BURIED ELECTRIC FACILITIES		
Drawn:	Eng:	Appr:	Date:	Revision: 2		Page 2 of 2
JVV	MB	DA	6/06			