

# Structures: General Requirements

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## 1. PURPOSE

This specification covers the structural requirements for 17”(W) X 30”(L) X 18”(H) non-concrete handholes.

## 2. GENERAL

1. The handhole shall be constructed per the latest edition of the Western Underground Committee Guide 3.6 (WUCG 3.6) for non-concrete enclosures, except as modified herein.
2. All construction work is subject to inspection and testing by NVE. If the handhole does not meet all the requirements or exhibits poor workmanship, the NVE field inspector shall reject it.
3. All parts exposed to the sun shall be made from an ultraviolet (UV) resistant material or have a (UV) coating.
4. Handholes shall be stackable for extra depth.
5. Handholes shall have two ½” – 13 UNC inserts in the frame of the box (per standard drawing RS-1) for mounting a power meter pedestal.
6. Cover shall not be concave or have stiffeners (ribs) at the bottom and shall weigh 60 to 75lbs.
7. Under normal backfilling and tamping around the handhole, the enclosure shall not become concave or bowed.
8. Points 2.6 and 2.10 from WUCG 3.6 change context to: “Covers and boxes shall conform to the dimensions shown on the drawings RS-1, page 1 and be interchangeable with all other approved covers and boxes”.
9. Points 2.7, 2.14 and 2.15 from WUCG 3.6 do not apply to handholes manufactured under this specification

## 3. TESTING

1. New supplier shall provide a test report performed by independent laboratory. The tested j-box (handhole) shall meet or exceed all requirements from latest edition of the WUCG 3.6 and NVE Appendix to Section 4 of the WUCG 3.6.
2. Two handholes shall be selected randomly and tested annually for the structural requirements according to NVE Appendix to Section 4 of the WUCG 3.6 by a Nevada State Certified Laboratory. The supplier is responsible for finding a testing laboratory and covering all expenses. The test shall be performed in the first quarter of each year. NVE T&D Standards personnel may observe these tests.
3. A copy of the certified test shall be sent no later than April 1 each year to:

NV Energy  
Manager, T&D Standards, M/S B19AM  
7155 S Lindell Rd.  
Las Vegas, Nevada 89118

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### 4. FINISH

1. The handhole box wall shall be straight, free of depressions, bumps or other irregularities and have an inward flange at the base. The handhole shall be free of cracks, chips, etc.
2. The top of the cover shall be true, even, and level with a non-skid surface with 1/8" radius. Finished surface variations shall not exceed 1/8" in 2 feet measured with a straight edge in any direction. Also, the cover shall have two slots, each with a lifting bar, free of any manufacturer pouring remains.
3. The supplier logo, TIER-22, and the word 'ELECTRIC' shall be embossed in the top of the cover.
4. The manufacturing date (month, day and year) shall be marked with paint on the bottom surface of the cover and on the inside of the box.
5. The vertical gap between the top of the box and the top of the cover shall not exceed 1/8" in any point.
6. The cover and exposed portions of the box shall be the same color, and both shall be similar in color to concrete used for sidewalks.

### 5. WARRANTY

1. For the first five years and within 14 days of notification, the supplier shall correct any product defect, at the expense of the supplier. When notified to repair 10 units or more, the supplier shall be granted 14 days per 10 units of repair time.
2. NVE reserves the right to require immediate repairs when, in NVE's opinion, there is a danger to the public.
3. If a material defect within the five-year period necessitates the item's replacement, the supplier shall be responsible for all labor and material costs incurred. These costs shall include but are not limited to the following; de-energize (if applicable), remove electrical apparatus/equipment, remove the defective item, re- excavate, deliver and place the new item, level, grout, backfill, restore site, replace the electrical apparatus/equipment, terminate the cables, and energize.  
NVE reserves the right to designate a qualified contractor, to perform the work described above, to best meet scheduling requirements.

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