

18" TITAN MANWAY

PROBE / SENSOR INSTALLATION GUIDE

H-25 RATED



SAFETY FIRST

Bravo Systems, Inc. recommends adherence to standard safety procedures and precautions provided by your company and compliance with all OSHA, local, state, and federal regulations regarding installation and use of this product.

CONCRETE REQUIREMENTS

- Minimum 8" concrete depth around skirt from grade.
- Minimum concrete compressive strength: 4,000 psi at 28-day cure unless otherwise specified by project engineering requirements.
- Ensure concrete is flowed tightly against the Titan skirt and ring.
- Approximately 1/4" per foot pitch sloping downward and away from the manway edge.

REINFORCEMENT REQUIREMENTS

Minimum two (2) layers of rebar mesh or rebar reinforcement per engineering specifications and regulatory requirements, 360° around the manway and directly beneath the structural flange at grade.

MW-SERIES TITAN MANWAY

18" PROBE / SENSOR CONFIGURATION

INCLUDED:

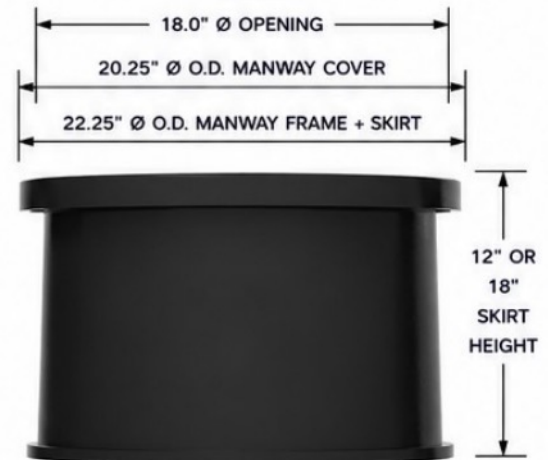
- 1x Composite (Fiberglass) Titan Cover – Black
- 1x Composite (Fiberglass) Titan Frame with Integrated Straight Skirt
- Available Skirt Heights: 12" and 18"
- O-Ring Seal

WATER-TITE MODEL NOTE

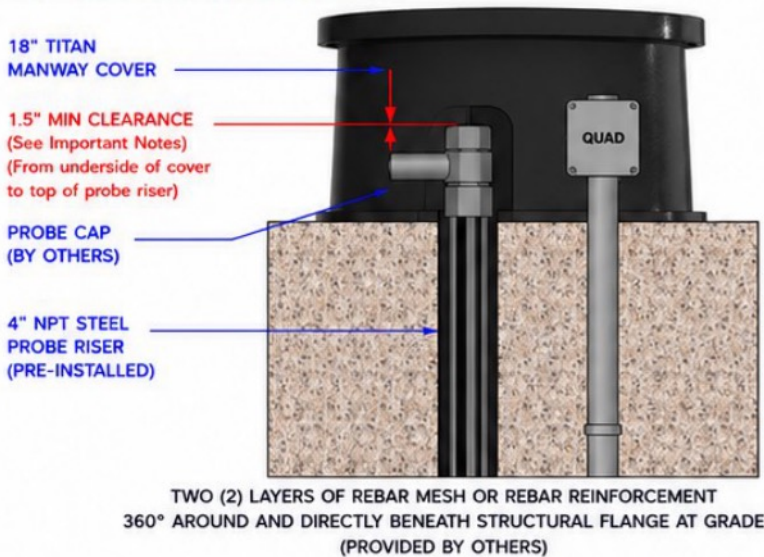
The O-ring seal is installed in the cover

18" TITAN MANWAY SPECIFICATIONS

Opening	18.0" Ø
Cover O.D.	20.25" Ø
Frame + Skirt O.D.	22.25" Ø
Skirt Height Options	12" or 18"
Cover Weight	45 lbs
Frame + Skirt Weight	15 lbs (12" H) / 20 lbs (18" H)
Load Rating	H-25
Cover/Frame Material	Composite FRP
O-Ring Material	Buna-N
Hardware	Stainless Steel
Cover Color	Black



MANWAY WITH PROBE / SENSOR CONFIGURATION (PRE-INSTALLED RISER & CONDUIT)



IMPORTANT NOTES

- Probe illustration shown for reference only.
- Probe equipment is supplied and installed by others.
- Water-Tite models utilize an O-ring seal installed in the cover.
- Maintain 1.5" minimum clearance from top of probe cap to underside of Titan cover.

INSTALLATION SEQUENCE

1. Position Titan manway over the probe/sensor riser.
2. Verify 1.5" of clearance under the Titan lid to top of riser or electrical junction box.
3. Place approved backfill around the Titan base and set pre-concrete level.
4. Install two layers of rebar or mesh around the Titan and make sure it goes up to the Titan skirt.
5. Ensure the Titan frame remains flush with finished grade.
6. Pour Concrete around the Titan and make sure to pitch it 1/4" per foot away from the Titan for proper drainage of surface water.

FIGURE 2A – CROSS-SECTIONAL INSTALLATION DETAIL

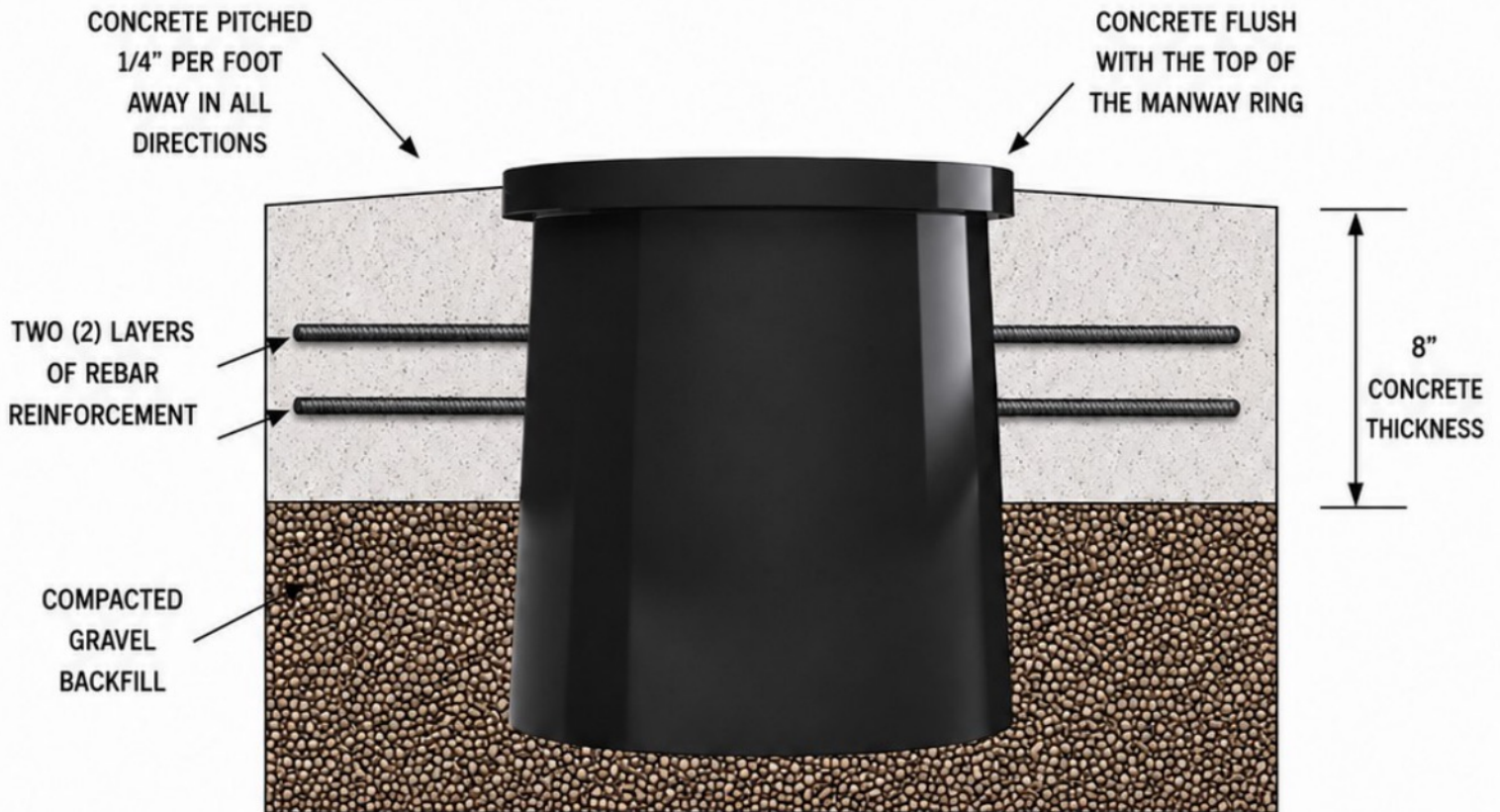
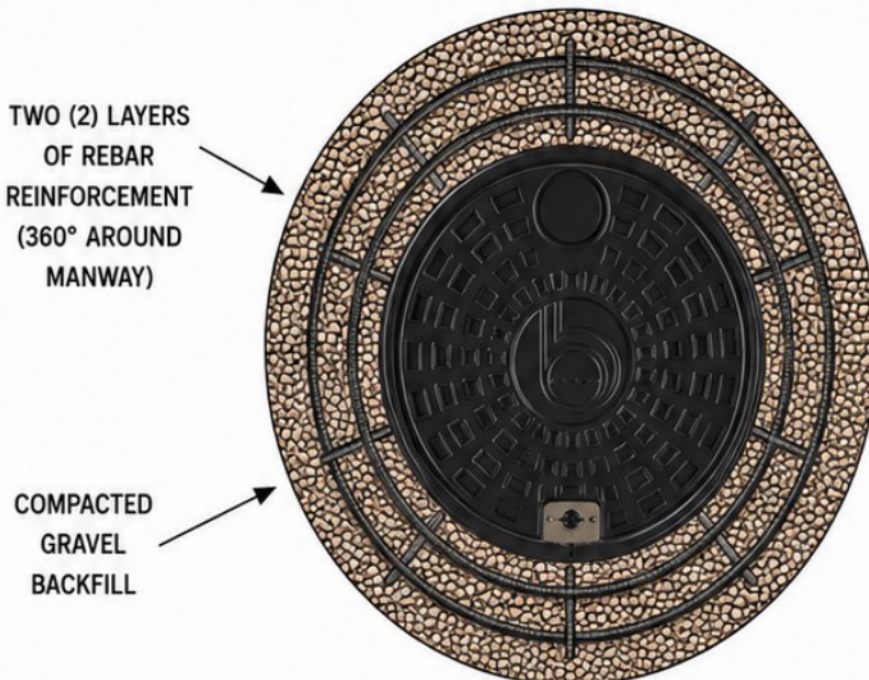


FIGURE 2B – TOP VIEW (REBAR LAYOUT)



CONCRETE REQUIREMENTS

- Minimum concrete compressive strength: 4,000 psi at 28-day cure
- Minimum 8" concrete thickness
- Ensure concrete is flowed tightly against the Titan skirt and ring
- Concrete pitched approximately 1/4" per foot away from the manway
- Minimum two (2) layers of rebar reinforcement

MAINTENANCE INSTRUCTIONS

1. ROUTINE INSPECTION

- Keep the top of the cover clean and free of debris.
- Keep the outside edges of the cover clean.
- Keep the interior structural ledge of the frame/skirt clean and free of debris.

2. WATER-TITE MODEL MAINTENANCE

- Inspect the O-ring for dirt and debris.
- Clean the O-ring as required.
- Re-grease periodically or whenever opened and re-sealed.
- Use non-petroleum-based grease only.



IMPORTANT

Failure to properly maintain the O-ring may result in reduced water-tight performance.

BRAVO CONTACT INFORMATION

S. Bravo Systems, Inc.

Technical Questions: **800-282-7286**

Montebello, CA | Lexington, TN

www.sbravo.com

