

INSTALLATION INSTRUCTIONS



Vaults

Installation Considerations

This Installation Instruction provides general information useful for installing the Channell **BULK** line of below-grade handhole vaults. This guide cannot anticipate all situations that could be encountered in the field and thus represents information applicable to common installation conditions. Please consult local company practice for proper product configuration for each application.

Site Preparation

1. Ensure that all local, state, federal, OSHA and company-specific regulations are met prior to beginning and throughout the installation process.
2. Plan the excavation approximately 12 to 16 inches in length and width larger than the actual dimensions of the handhole to be installed. (See Figure 1)
3. Excavate the hole 6 to 8 inches in depth more than the overall height dimension of the handhole with the cover in place. Tamp the floor of excavated pit using either a hand tamp tool and/or a mechanical tamper.
4. Place 5 to 6 inches of 3/4" crushed rock over the entire floor. The rock should be free of soil and other organic matter. This important step prevents subsistence of the vault over time, aids in drainage, and provides a solid foundation for the handhole. (See Figure 2)
 - a. As an alternative, a dry mix of cement and crushed rock in a 1:10 ratio may be used to form a higher strength foundation.
 - b. NOTE: Do not use "pea gravel" or other "round stone" for this step.
5.
 - a. Place the handhole body into the pit. (See Figure 3)
 - b. Center the handhole body in the excavated pit parallel to the sidewalk and/or curb if applicable.
 - c. Level and adjust the height of the handhole body to grade, as required, by adding more crushed rock.

6. Place the cover on the handhole body to prevent the backfill dirt from entering the inside of the handhole. The cover should be level with the ground. Bolting of the cover is recommend but is not a requirement for this step; however, the cover must always be bolted down prior to departure of the site. (See Figure 4)
7. The excess soil removed from the excavated pit shall be used during the backfill of the pit. Backfill short (bolted) ends first. Add soil and tamp every 6 inches until halfway up the vault. Backfill long sides until at the same height as the short ends, tamping every 6 inches. Continue to backfill the entire perimeter, tamping every 6 inches, until the backfill is level to grade. (See Figure 5) During the filling process of the soil around the handhole, stones that are 3” and larger shall be removed from the soil and not used.
8. The final backfill shall be tamped with a slope away from the handhole. All excess backfill material shall be removed from the installation site. (See Figure 6)



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6

