CONCAST

Fibercrete®

PRECISELY ENGINEERED HIGH STRENGTH CONCRETE

VISTA VAULT INSTALLATION GUIDELINES

4/17/12

WEB: www.concastinc.com | **EMAIL:** info@concastinc.com | **PHONE:** 507-732-4095 | **FAX:** 507-732-4094

Vista Vault Installation Guidelines

The following guideline is provided to assist in the installation of Concast Vista Vaults. Please read through the guideline in its entirety before beginning the installation.

Concast provides you with CAD generated PDF drawings of each Vista Vault. Review all drawings before beginning installation, as they will aid in the location and depth of excavation.

Excavation Limits and Requirements: Excavation shall be to a depth that permits preparation of a foundation as specified; the installation of the vault unit at the prescribed line and grade. The width and length of the excavation hole shall be sufficient to permit the entire bottom surface of the vault to be set level, and then the backfill to be placed and compacted as specified.

Excavation shall be extended below the bottom of the structure grade as necessary to accommodate any required granular bedding material. When rock or unstable foundation material is encountered at the established grade, additional materials are to be removed as specified or as directed by the soil engineer to ensure an acceptable foundation.

All excavations below grade shall be to a minimum width equal to the dimensions of the vault base plus 6 inches. Excavation widths shall include at least three inches of clearance on each side of the vault base.

Vista Vault Bedding: Where ordinary bedding is allowed on existing materials, the excavation bottom is to be at the grade at which the vault is to be laid. The vault shall be laid on sound soil, cut true and even; so that the base of the vault will have bearing capacity over 80% of the entire bottom surface of the base.

All bedding materials shall be carefully compacted into place. Bedding requirements shall include mechanical compaction of sand and gravel material when specified. A 6 inch granular base of compacted crushed rock or granular materials; at which 100% passes a 3/8 inch sieve; and a maximum of 5% passes a number 10 sieve shall be placed on compacted sub grade under the proposed vista vault unit. The sub grade shall be compacted as directed by the soils engineer.

When the bottom of the excavation is soft, or where the soils engineer feels that unsatisfactory foundation conditions exist, the contractor shall over-excavate to a depth that ensures a proper foundation as directed by the soils engineer. The excavation can then be brought back up to the prescribed vista vault grade with a thoroughly compacted granular material. The contractor shall furnish sand or gravel material for the bedding.

It shall be the contractor's responsibility to notify the owner and soils engineer of changing soil conditions which may be of poor bearing capacity, and also when organic soils are encountered. Where vaults are placed on unstable soils without notification, the contractor shall be solely responsible for all corrections of the installation without further compensation.

Placing of the Vista Vault: Vista Vaults are set with mechanical aid. Four cast-in lifting rings are provided in the vault base. Use suitable hoisting equipment to maneuver the vault into place.

Vista Vault Backfilling Operations: All vault excavations shall be backfilled to restore pre-existing conditions, or to the final grade as specified by the owner. Backfill material shall be a granular type as required by the soils engineer, and shall be reasonably free of foreign materials, rubbish, debris, etc. Frozen clumps, oversized stone, rock, concrete, bituminous chunks, or other unsuitable materials may prevent a thorough compaction or increase the risk of after settlement. Backfill shall be placed to the desired grade height, but shall not cover the top surface of the vault.

Backfill should not be bulldozed into the hole or dropped directly on the vista vault.

Compaction of the materials within the encasement zones of the vista vault unit shall be achieved by hand or through the use of light equipment only.

Any damage to the vista vault unit as a result of improper compaction methods will be the responsibility of the contractor. Until the final acceptance of the project, the contractor will assume full responsibility and expense for all backfill settlement. The contractor shall refill and restore the work as directed to maintain an acceptable surface condition. All additional materials required shall be furnished without additional cost to the owner.

Placing of the Switchgear Equipment: Lift the switchgear into place and bolt to provided steel supports within the Vault. Attach using the provided holes in the internal support hardware. After the switchgear has been installed, and all cabling connections have been completed; then install the covers. The two-piece covers are to be placed so that the hinged cover is over the switchgear.

Restoration of Surface Improvements and Final Acceptance:
Whenever any surface improvements such as pavement, curbing, pedestrian walks, fencing, or turfing have been removed, damaged, or otherwise disturbed by the contractor's operations; they shall be repaired or replaced to the pre-existing condition. The repairs are to meet the owner's satisfaction.

Until the final acceptance of the project, the contractor will assume full responsibility and expense for all backfill settlement. The contractor shall refill and restore the work as directed to maintain an acceptable surface condition.

All additional materials required shall be furnished without additional cost to the owner.

CONCAST

P.O. Box 69
1010 North Star Drive
Zumbrota, MN 55992-0069

NPCA CERTIFIED PLANT

aci international

AWEA BUSINESS MEMBER

SEPA solar electric power association