

Redi-Span™ Arch Bridge System

Structure Backfill Requirements

- Backfill Material used to replace excavated material and for new embankments at the Redi-Span Structure, Headwalls and MSE Wingwalls to be free draining granular material.
- A minimum of 12" of backfill material must be placed over top of the Redi-Span structure before any heavy compaction equipment is to be allowed on bridge units, unless otherwise approved by the engineer.
- Backfill material shall be placed and compacted in maximum 8" to 10" lifts. All backfill material shall be compacted until it reaches a minimum density of 95% of the dry density.
- The maximum differential backfill height on either side of the unit shall not exceed 2'-0".
- At no time shall equipment operating over design loads be permitted on the bridge units.
- Pay close attention to the operation of compaction equipment close to the wingwalls and headwalls. Heavy compaction and operation equipment shall be kept a minimum distance of 3'-0" from the back face of the wingwalls or headwalls. Compaction within 3'-0" of the wingwalls or headwalls shall be achieved with at least three passes of a lightweight mechanical tamper, roller, or vibratory system.

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