



Standard Practice for Installing Factory-Made Corrugated Aluminum Culverts and Storm Sewer Pipe¹

This standard is issued under the fixed designation B 788/B 788M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope *

1.1 This practice describes procedures, soils, and soil placement for the proper installation of corrugated aluminum culverts and storm sewers in either trench or projection installations. A typical trench installation is shown in Fig. 1, and a typical embankment (projection) installation is shown in Fig. 2. The pipes described in this practice are manufactured in a factory and furnished to the job in lengths ordinarily from 10 to 30 ft [3 to 9 m], with 20 ft [6 m] being common, for field joining.

1.2 This practice is applicable to either inch-pound units as B 788 or to SI units as B 788M. Inch-pound units are not necessary equivalent to SI units. SI units are shown in the text in brackets, and they are the applicable values for metric installation.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

B 790/B 790M Practice for Structural Design of Corrugated Aluminum Pipe, Pipe Arches, and Arches for Culverts, Storm Sewers, and Other Buried Conduits²

D 698 Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ [600 kN-m/m³])

D 1556 Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method³

D 2167 Test Method for Density and Unit Weight of Soil in Place by the Rubber-Balloon Method³

D 2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)³

D 2922 Test Methods for Density of Soil and Soil-

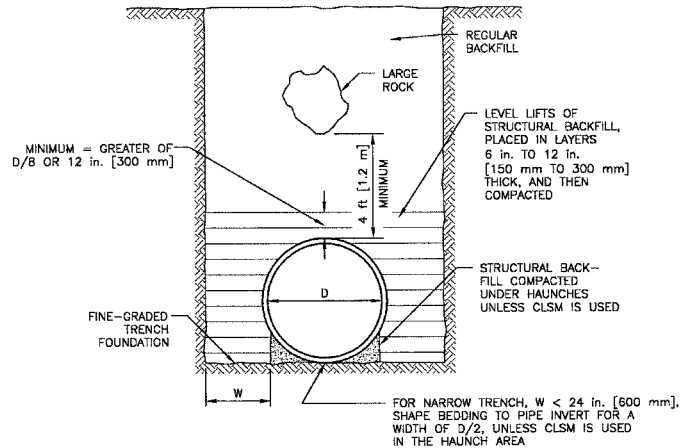


FIG. 1 Typical Trench Installation

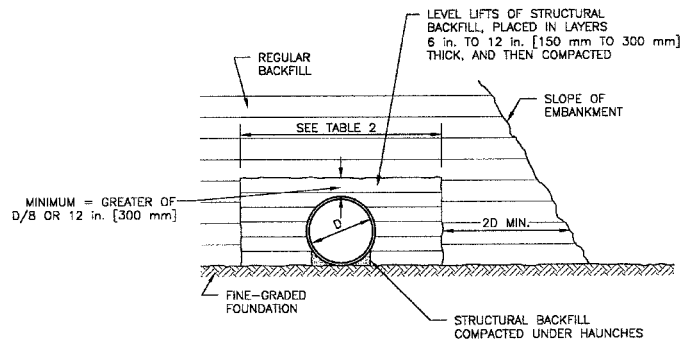


FIG. 2 Typical Embankment (Projection) Installation

Aggregate in Place by Nuclear Methods (Shallow Depth)³
D 2937 Test Method for Density of Soil in Place by the Drive-Cylinder Method³

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *bedding, n*—the earth or other material on which a pipe is supported.

3.1.2 *haunch, n*—the portion of the pipe cross section between the maximum horizontal dimension and the top of the bedding.

3.1.3 *invert, n*—the lowest point on the pipe cross section; also, the bottom portion of a pipe.

¹ This practice is under the jurisdiction of ASTM Committee B07 on Light Metals and Alloys and is the direct responsibility of Subcommittee B07.08 on Aluminum Culvert.

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² Annual Book of ASTM Standards, Vol 02.02.

³ Annual Book of ASTM Standards, Vol 04.08.

