

**LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
SPECIFICATIONS**

**CONVERTED RAILROAD TANK CAR FOR USE AS CULVERT**

**DESCRIPTION:**

This specification sets forth the requirements for a decommissioned railroad tank car that has been converted for use as a culvert to be installed by the Louisiana Department of Transportation and Development at various locations throughout the State.

**REQUIREMENTS:**

**General**

**Product ID 52031** – 50' L (+/- 1') x 9' Dia. (+/- 8") Converted Tank Car

**Product ID 56750** – 62' L (+/- 1') x 9' Dia. (+/- 8") Converted Tank Car

Converted tank car culvert must be constructed of ½" +/- 1/8" thick 36ksi grade steel.

**Construction**

All tank car ends, plumbing and/or valves must be removed and remaining edges must be smoothed to remove all burs and/or rough edges. Culvert must be free of cracks and punctures and the interior must be free of all protrusions and/or baffles. Ends are allotted a ½" tolerance from square and the corners must be rounded smooth.

All pre-formed holes/man holes must be welded closed with ½" +/- 1/8" thick 36ksi grade steel or higher. Welds must be continuous, neither tack welds nor partial welds will be allowed. When a cover plate is oversized for the hole being covered, a fillet weld should be used. If the plate is made to fit within the hole, a groove or butt weld should be used.

Tank culverts must meet or exceed the material and cross drain requirements of the 2016 Louisiana Roads and Bridges Specification Book, Section 1007.11.

1007.11 BLACK AND GALVANIZED WELDED AND SEAMLESS STEEL PIPE.  
Steel pipe for ordinary uses shall comply with ASTM A53.

At the discretion of the Department, a sample of the steel may be requested by LADOTD District/Section fabrication group to run a chemical analysis test for verification of compliance with the noted section(s) of the 2016 Louisiana Standard Specifications for Roads and Bridges.

**CERTIFICATION:**

The successful vendor shall provide a certificate of analysis from an independent test laboratory that states the product supplied meets the requirements of this specification with each shipment. Certification will be kept on file by the Department.

**DELIVERY:**

Culvert to be delivered and offloaded by the vendor at the location noted on the Purchase Order.

Prior to offloading, DOTD personnel will visually inspect and measure the culvert to ensure adherence to the specifications. Inspector will look for cracks, holes, wall thickness and diameter verification, length of the culvert, welds, and all other aspects of this specification. Should the inspector find that the product does not meet the requirements, the culvert will be rejected and must be removed at no cost to the Department.

