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Box Culvert Design
Precast Concrete Box
Sections Resource #
CP-02-704 Cast-in-
place reinforced
concrete box culverts
have been designed
and used for many
years because of
special waterway
requirements, unusual

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load conditions, or
designer preference.

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**Box Culvert Design -
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CONCRETE BOX

CULVERTS 9-1 General

The culvert design

begins when the

Structure Design Unit

receives the Culvert

Survey and Hydraulic

Design Report from the

Hydraulics Unit.

CHAPTER 9

Page 5/25

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**REINFORCED
CONCRETE BOX
CULVERTS**

BRASS-CULVERT™

designs, analyzes,
and/or rates one-, two-,
three-, or four-cell
reinforced concrete
box culverts with
prismatic members
(precast or cast-in-
place) with or without a
bottom slab. All cells
are assumed the same
size, and the clear
opening dimensions
remain constant during

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the design process.

Concrete Box Culvert Design

BRASS - CULVERT

CONCRETE CULVERT

DESIGN AND

DETAILING MANUAL

Ministry of

Transportation

QUALITY AND

STANDARDS

TRANSPORTATION

ENGINEERING BRANCH

BRIDGE OFFICE ST.

CATHARINES, ONTARIO

... Reinforced Concrete

Box Culverts and Box

Sewers 169 9.5

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Concrete Box
Appendix E:
Methodology Used for
Rigid Frame Culvert ...
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**CONCRETE CULVERT
DESIGN AND
DETAILING MANUAL**

SEMA Precast is the leading producer of wet-cast reinforced concrete box culverts in Colorado. Brand new state-of-the-art forming equipment ensures the highest quality products. SEMA Precast manufactures a full line

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of standard precast box culverts, as well as specially designed products to meet jobsite needs. We also offer special end sections with rebar dowels for [...]

Reinforced Concrete Box Culverts - SEMA Precast

TITLE PLANT STATE
SECTION.PAGE DATE
LA 4.6 12-1-04 Note: A
= Wall thickness
Contact manufacturer

Get Free
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Concrete Box
for standard joint
lengths. Reinforced
Concrete Precast Box
Section Wall Precast
Box Culverts Lift Holes
- 2 1/2" Diameter

Precast Box Culverts - Forterra

Standard designs for precast concrete box culverts are available with spans varying from 6 to 16 feet and rises varying from 4 to 14 feet. Standard precast concrete box

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culverts are typically
fabricated in 6 foot
sections; however
larger boxes are
fabricated in 4 foot
sections to reduce

SEPTEMBER 2013
LRFD BRIDGE
DESIGN 12-1

Precast Reinforced
Concrete Box Sections
for Culverts, Storm
Drains, and Sewers
with Less Than 2 ft. of
Cover Subjected to
Highway Loadings.

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Call Plans

ASTM C 1433 Standard
Specification for
Precast Concrete Box
Sections for Culverts,
Storm Drains, and
Sewers. ASTM C 1577

**Box Culverts | Rinker
Pipe & Stormceptor**

SOLUTIONS IN
CONCRETE OUR
PRODUCTS We have
been manufacturing
heavy civil, industrial,
commercial, and
residential precast
concrete products

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since 1998. Our portfolio includes a variety of sound wall systems, mechanically stabilized earth wall and coping systems, temporary barriers, and box culverts. We are the only precast concrete manufacturer in the Rocky Mountain Region that can [...]

Home - SEMA Precast

Colorado Concrete firm providing concrete

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bridges, walls,
bleachers, foundations,
box culverts and other
concrete structures for
colorado commercial
and residential
excavation and
concrete work. Home
Experience Photo
Gallery Contact Us:
PHOTO GALLERY: To
see ... web design by
cymaxmedia ...

**MLL Concrete -
Colorado Concrete
firm - concrete ...**

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Design new reinforced concrete culverts and extensions to existing culverts are subjected to either earth fill and/or highway vehicle loading in accordance with the AASHTO LRFD Bridge Design Specifications. Precast concrete box culvert will be used in this design tutorial.

**Box culvert design
as per AASHTO LRFD
- MIDASoft**

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The structural design of a reinforced concrete box culvert comprises the detailed analysis of rigid frame for bending moments, shear forces, and axial forces due to various types of loading conditions outlined below:

Loading and Design of Box Culverts to Eurocodes - Structville

CONCRETE BOX
Page 16/25

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Concrete Box
CULVERTS. OUTLINE ...
Box culvert design for
stormwater
conveyance Project
data: Flow rate, $Q =$
 $1000 \text{ ft}^3/\text{sec}$ Length, L
 $= 800$ feet Initial slope,
 $S_o = 0.5\%$ Allowable
Head Water, $HW = 15$
feet Manning's, $n =$
 0.012 DESIGN -
EXAMPLE

PRECAST CONCRETE BOX CULVERTS

box culvert standards
single reinforced

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Concrete Box
Culvert Design
Culverts

concrete general notes
index & ... design
stresses for the
following materials are
in accordance with
details are to be
included in the design
plans to address these
situations. culvert slab.
refer to the culvert
design manual for
instructions. ... single
reinforced concrete |
culvert 9-

SINGLE REINFORCED CONCRETE BOX

Get Free Reinforced Concrete Box **CULVERT STANDARDS**

In most cases the designer should develop plans for each reinforced concrete box culvert or box culvert extension as a stand-alone project. However, the culvert or extension usually becomes part of a new road, road widening, or road resurfacing project of the Office of Design.

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Cultrons**
TABLE OF CONTENTS
~ CULVERT DESIGN

Detailed example problems of specific applications illustrate the use of the time saving design aids included in the manual. The Design Manual is a companion volume to the CONCRETE PIPE HANDBOOK. The Concrete Pipe Design Manual includes a hardbound book with accompanying CD ROM. Browse the

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Manual online

**Design Manual -
concretepipe.org**

Triple Concrete Box
Culvert (Cast-In-Place)
(2 Sheets) ...

Reinforced Concrete
Pipe - Tables for RCP
including cover limits,
and bedding
requirements. ... See
opportunities to bid on
innovative design-build
and construction
management/general

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contractor (CM/GC)
projects.

**M Standard Plans
and M Standard
Project Special
Details ...**

A design span for a
concrete box culvert in
excess of 7.5 m may
prove to be
uneconomical.

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CULVERTS AND
SIMILAR STRUCTURES

19-3 12/16/05 §19.2

Get Free Reinforced Concrete Box Culvert Design Culverts

19.2 SELECTION

CRITERIA The most appropriate type of short-span structure must be determined by the designer.

HIGHWAY DESIGN MANUAL

Box culverts are reinforced concrete closed rigid frames which must support vertical earth and truck loads and lateral earth pressure. They may be either single or multi-

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cell.
Culvert Design

**WisDOT Bridge
Manual Chapter 36 -
Box Culverts**

Concrete Box Culvert
analysis and Design
Spreadsheet Concrete
Box Culvert analysis
and Design

Spreadsheet A culvert
is a structure that
allows water to flow
under a road, railroad,
trail, or similar
obstruction. Typically
embedded so as to be

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Cultrans

surrounded by soil, a culvert may be made from a pipe, reinforced concrete or other material.

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