

## Index 292 Standard Precast Concrete Box Culverts

### Design Criteria

**AASHTO LRFD Bridge Design Specifications**, 4th Edition; **Structures Design Guidelines (SDG)**

### Design Assumptions and Limitations

At the contractor's option, these precast designs may be substituted for cast-in-place box culverts designed to **AASHTO LRFD Bridge Design Specifications**, 4th Edition. Designs are based on the design criteria shown in the **SDG**.

Use this standard with Index 291.

This index may be used in lieu of Index 289 when a precast box culvert is determined to be more cost effective or more appropriate for the project. In such cases, the designer shall show the box culvert Span, Rise and Design Earth Cover in the plans. The designer shall also provide the headwall and wing wall design in the plans by completing the relevant data tables and notes for [Index 289](#) (Box Culvert Data Tables).

### Plan Content Requirements

Include references to and completed data tables for Index 289 Concrete Box Culvert Details in the plans. Use of Index 292 in lieu of Index 289 is at the contractor's option unless specifically excluded by plan note.

### Payment

| Item number | Item description                  | Unit Measure |
|-------------|-----------------------------------|--------------|
| 400-2-1     | Concrete Class II, Culverts       | CY           |
| 400-4-1     | Concrete Class IV, Culverts       | CY           |
| 415-1-6     | Reinforcing Steel - Miscellaneous | LB           |