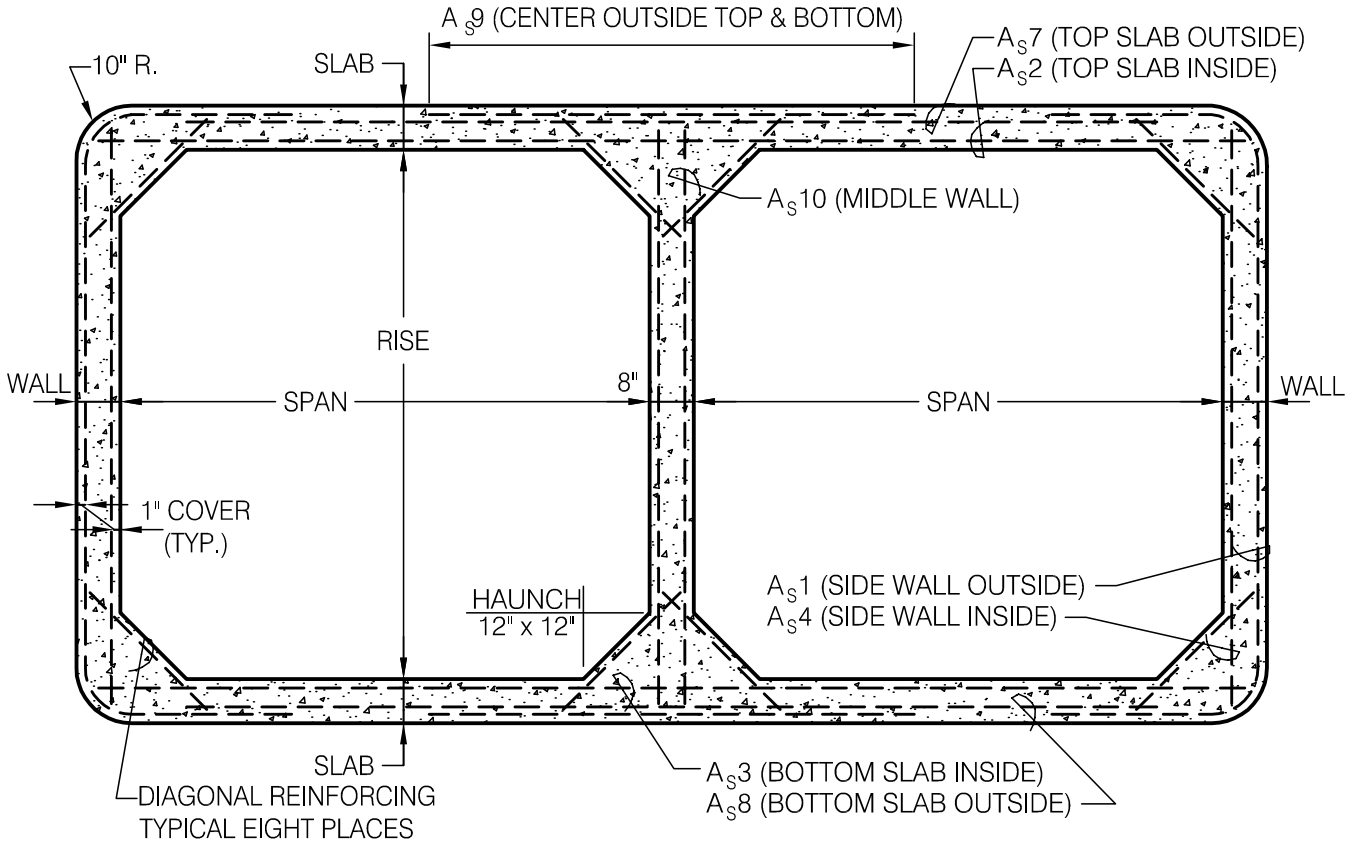
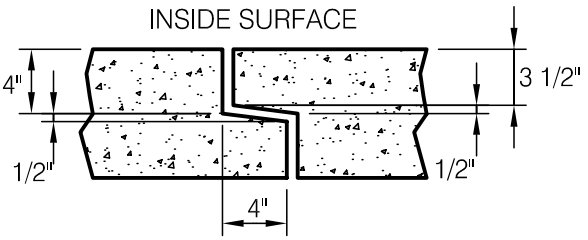
# DOUBLE CELL BOX CULVERT DESIGN DETAILS




**SECTION VIEW**

MATERIALS, LOADING AND DESIGN METHODS COMPLY WITH AASHTO STANDARD BRIDGE SPECIFICATIONS.
Standard laying length = 6'-0"
WWF ASTM A185, fy = 65 KSI
Concrete Strength, f'c = 5 KSI
Designs are available for shallow to deep fills, aircraft, railroad and other special loadings.




**TYPICAL JOINT DETAIL**

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ELK RIVER CONCRETE PRODUCTS of MONTANA
HELENA, MONTANA

DOUBLE CELL BOX CULVERT
DESIGN DETAILS

| SCALE | DATE | DWG. NO. |
|---|---|---|
| NOT TO SCALE | APRIL 1, 2001 | ERMTDCWDDE |

# DOUBLE CELL BOX CULVERT WEIGHT CHART

| SPAN x RISE FEET | SLAB INCHES | WALL INCHES | WT./FT. LBS. |
|---|---|---|---|
| 7 x 3 | 8 | 8 | 4650 |
| 7 x 4 | 8 | 8 | 4950 |
| 7 x 5 | 8 | 8 | 5250 |
| 7 x 6 | 8 | 8 | 5550 |
| 7 x 7 | 8 | 8 | 5850 |
| 8 x 4 | 8 | 8 | 5350 |
| 8 x 5 | 8 | 8 | 5650 |
| 8 x 6 | 8 | 8 | 5950 |
| 8 x 7 | 8 | 8 | 6250 |
| 8 x 8 | 8 | 8 | 6550 |
| 9 x 4 | 8 | 8 | 5750 |
| 9 x 5 | 8 | 8 | 6050 |
| 9 x 6 | 8 | 8 | 6350 |
| 9 x 7 | 8 | 8 | 6650 |
| 9 x 8 | 8 | 8 | 6950 |
| 9 x 9 | 8 | 8 | 7250 |
| 10 x 4 | 8 | 8 | 6150 |
| 10 x 5 | 8 | 8 | 6450 |
| 10 x 6 | 8 | 8 | 6750 |
| 10 x 7 | 8 | 8 | 7050 |
| 10 x 8 | 8 | 8 | 7350 |
| 10 x 9 | 8 | 8 | 7650 |
| 10 x 10 | 8 | 8 | 7950 |
| 11 x 4 | 9 | 8 | 7150 |
| 11 x 5 | 9 | 8 | 7450 |
| 11 x 6 | 9 | 8 | 7750 |
| 11 x 7 | 9 | 8 | 8050 |
| 11 x 8 | 9 | 8 | 8350 |
| 11 x 9 | 9 | 8 | 8650 |
| 11 x 10 | 9 | 8 | 8950 |
| 11 x 11 | 9 | 9 | 9700 |
| 12 x 4 | 9 | 8 | 7600 |
| 12 x 5 | 9 | 8 | 7900 |
| 12 x 6 | 9 | 8 | 8200 |
| 12 x 7 | 9 | 8 | 8500 |
| 12 x 8 | 9 | 8 | 8800 |
| 12 x 9 | 9 | 8 | 9100 |
| 12 x 10 | 9 | 8 | 9400 |
| 12 x 11 | 9 | 9 | 10150 |
| 12 x 12 | 9 | 9 | 10500 |
| 14' Span standard laying length = 4'-0" or 6'-0" | | | |
| 14 x 4 | 10 | 8 | 9250 |
| 14 x 5 | 10 | 8 | 9550 |
| 14 x 6 | 10 | 8 | 9850 |
| 14 x 7 | 10 | 8 | 10150 |
| 14 x 8 | 10 | 8 | 10450 |
| 14 x 9 | 10 | 8 | 10750 |
| 14 x 10 | 10 | 8 | 11050 |
| 14 x 11 | 10 | 9 | 11800 |
| 14 x 12 | 10 | 9 | 12150 |
| 14 x 13 | 10 | 9 | 12500 |
| 14 x 14 | 10 | 10 | 13400 |

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ELK RIVER CONCRETE PRODUCTS of MONTANA
HELENA, MONTANA

DOUBLE CELL BOX CULVERT
WEIGHT CHART

SCALE NOT TO SCALE | DATE JAN. 1, 1999 | DWG. NO. ERMTDCWWCE