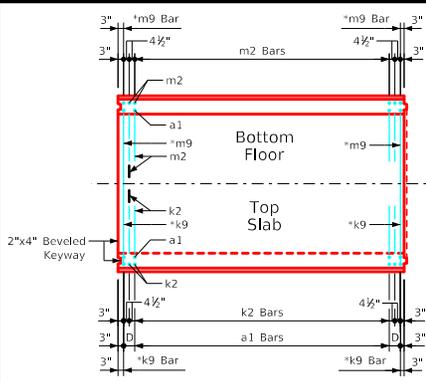


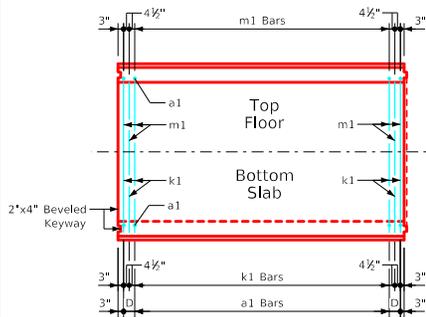
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**Standard Section Plan View**  
(Keyway is to be omitted when bell joints are used)

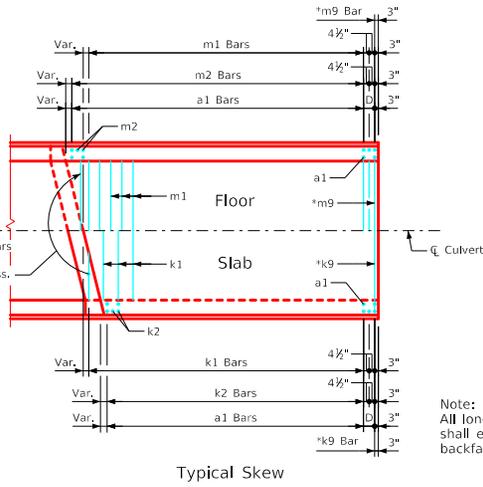
Note:  
Typical for lengths of 38', 35', 32', 29', and 26'. These lengths are shown as typical because all transverse and vertical reinforcing steel spacing repeats in 3'-0" intervals.

\* The k9 and m9 bars are to be placed in the top slab and bottom floor unless the horizontal legs of the k2 and m2 bars touch or lap. The culvert barrel detail standards identify when the k9 and m9 bars are omitted.



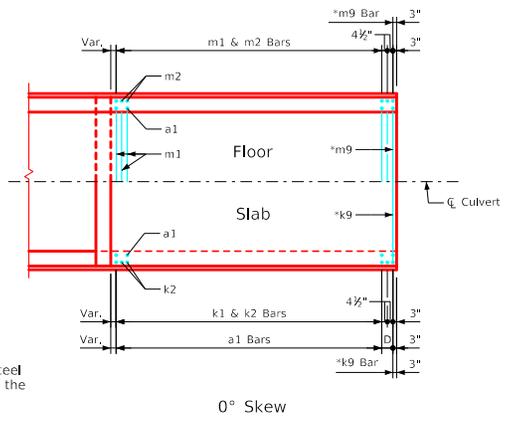
**Standard Section Plan View**  
(Keyway is to be omitted when bell joints are used)

Note:  
Typical for lengths of 38', 35', 32', 29', and 26'. These lengths are shown as typical because all transverse and vertical reinforcing steel spacing repeats in 3'-0" intervals.



**Typical Skew**

Cut & relocate bars as required. The k1 bars all fills & k2 bars zero fill only. The m1 bars to extend into headwall apron. Discard cut lengths of 2'-0" or less.



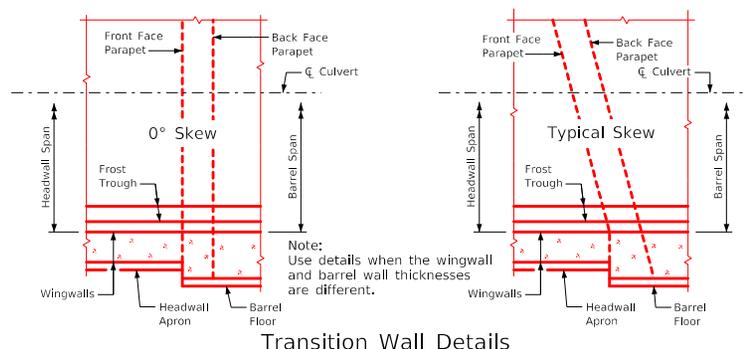
Note:  
All longitudinal barrel steel shall extend at least to the backface of parapet.

**0° Skew**

**End Section Plan Views**  
(Keyways not shown)

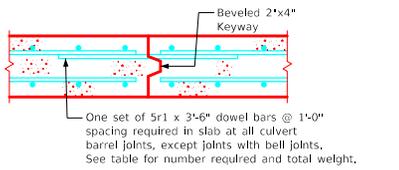
Note:  
End section details shown are for a 15° skew barrel. Use for skews of 30° & 45° by increasing the number of transverse reinforcing bars required to be cut and relocated.

5r1 Bars - One Const. Jt.		
Span	No.	Weight (LB)
3'-0"	4	15
4'-0"	5	18
5'-0"	6	22
6'-0"	7	26
8'-0"	9	33
10'-0"	11	40
12'-0"	13	47
14'-0"	15	55
16'-0"	17	62



**Transition Wall Details**

Note:  
Use details when the wingwall and barrel wall thicknesses are different.



**Top Slab Construction Joint Detail**

One set of 5r1 x 3'-6" dowel bars @ 1'-0" spacing required in slab at all culvert barrel joints, except joints with bell joints. See table for number required and total weight.



Standard Design  
**Single Reinforced Concrete Box Culverts**  
July, 2020

Typical Culvert Barrel Details

RCB G3-20

LATEST REVISION DATE  
*[Signature]*  
APPROVED BY BRIDGE ENGINEER