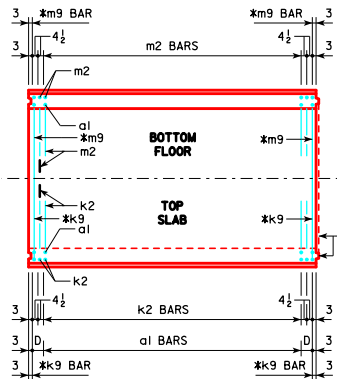


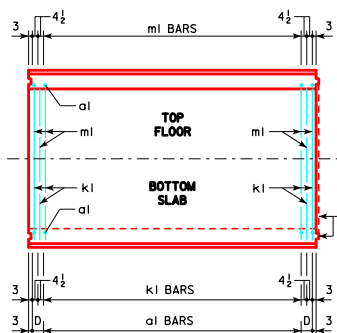
REVISED 07-14 - TRANSITION WALL DETAILS.
 REVISED 03-2016 - ADDED SKEWED TRANSITION WALL DETAILS.
 ENGLISH REVISIONS IN GREEN. DGN - RCB G2-12 - THIS SHEET ISSUED 04-12.



STANDARD SECTION PLAN VIEW
 (KEYWAY IS TO BE OMITTED WHEN BELL JOINTS ARE USED)

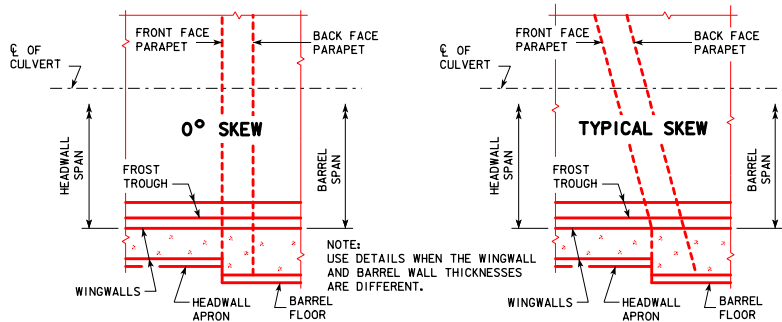
NOTE:
 TYPICAL FOR LENGTHS OF 38', 35', 32',
 29', AND 26'. THESE LENGTHS ARE SHOWN
 AS TYPICAL BECAUSE ALL TRANSVERSE
 AND VERTICAL REINFORCING STEEL SPACING
 REPEATS IN 3' INTERVALS.

* 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.



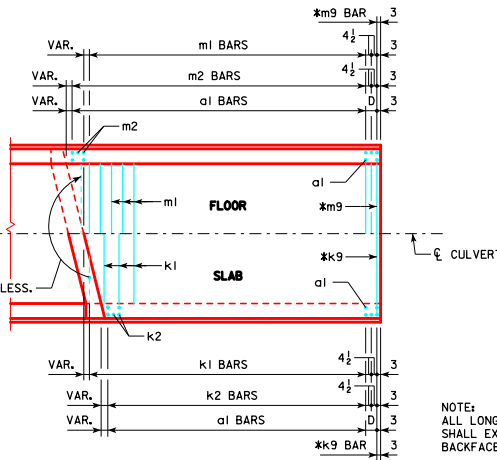
STANDARD SECTION PLAN VIEW
 (KEYWAY IS TO BE OMITTED WHEN BELL JOINTS ARE USED)

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' INTERVALS.



TRANSITION WALL DETAILS

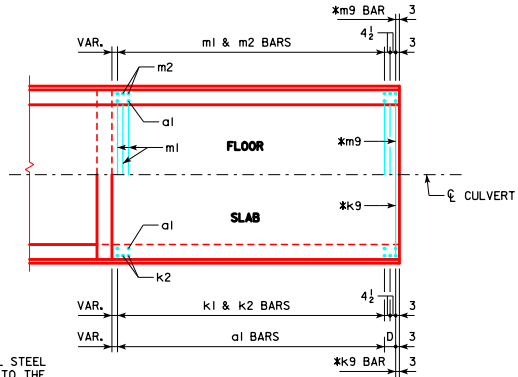
NOTE:
 USE DETAILS WHEN THE WINGWALL
 AND BARREL WALL THICKNESSES
 ARE DIFFERENT.



TYPICAL SKEW

CUT & RELOCATE BARS AS
 REQUIRED. k1 BARS ALL FILLS &
 k2 BARS OF FILL ONLY. 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.



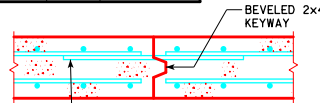
0° SKEW

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



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**
 APRIL, 2012

**TYPICAL CULVERT
 BARREL DETAILS**

RCB G2-12

03-2016
 LATEST REVISION DATE
 Approved by: *Thomas E. Mc Donnell*
 APPROVED BY BRIDGE ENGINEER