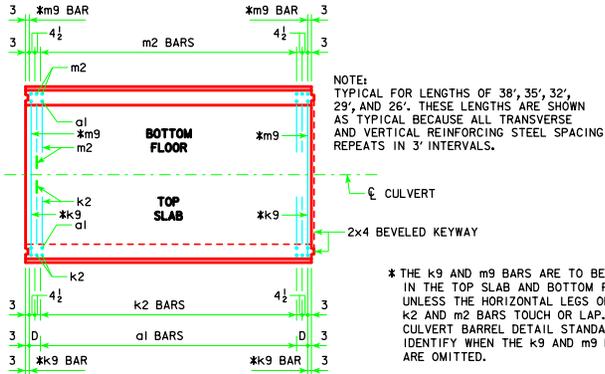


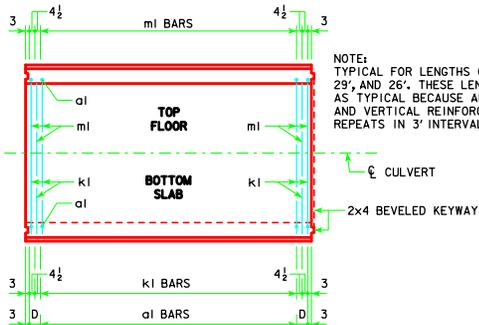
REVISED 11-12 - ADDED A PLAN VIEW TO DISTINGUISH THE REINFORCING BETWEEN THE TOP AND BOTTOM OF SLABS AND FLOORS. ENGL15HLRFDISIGNED3.INGULVERTS.DGN - RCB G2-12 - THIS SHEET ISSUED 04-12.



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.

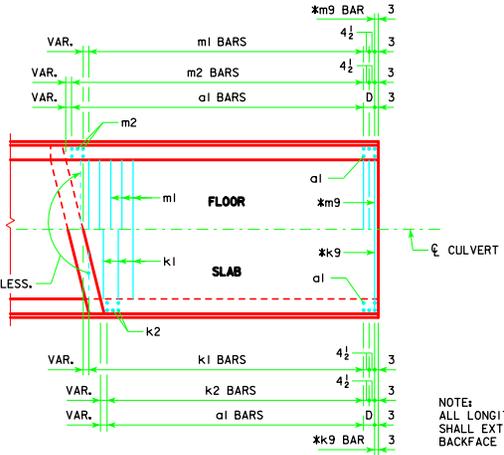
STANDARD SECTION PLAN VIEW
(KEYWAY IS TO BE OMITTED WHEN BELL JOINTS ARE USED)



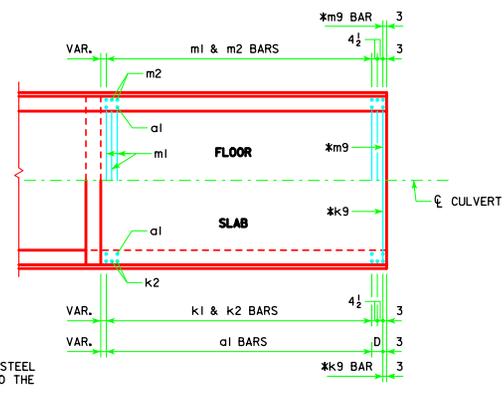
NOTE:
TYPICAL FOR LENGTHS OF 38', 35', 32', 29', AND 26'. THESE LENGTHS ARE SHOWN AS TYPICAL BECAUSE ALL TRANSVERSE AND VERTICAL REINFORCING STEEL SPACING REPEATS IN 3' INTERVALS.

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

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	



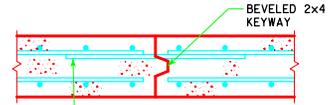
TYPICAL SKEW



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.



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.

NOTE:
DIMENSIONS LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH DIMENSIONS AND QUANTITIES FOR BARREL SECTION SHEETS.

11-12 LATEST REVISION DATE <i>Thomas E. Mc Donnell</i> APPROVED BY BRIDGE ENGINEER		
	STANDARD DESIGN SINGLE REINFORCED CONCRETE BOX CULVERTS APRIL, 2012	
	TYPICAL CULVERT BARREL DETAILS	RCB G2-12