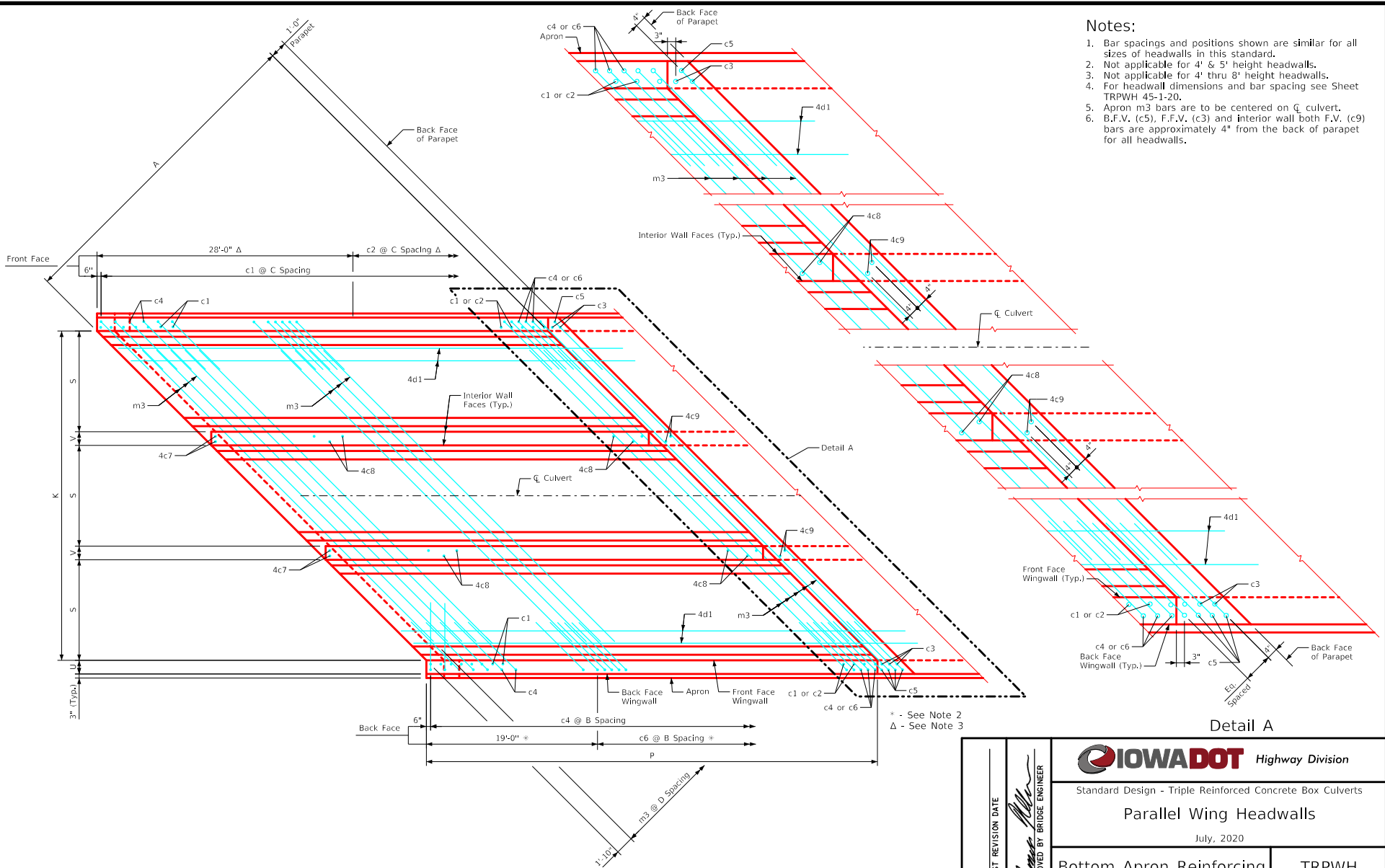


ENGLISH\FDS\DESIGN\TRIPLE\CULVERTS.DGN - TRPWH 45-4-20 - THIS SHEET ISSUED 07-2020.



- Notes:**
1. Bar spacings and positions shown are similar for all sizes of headwalls in this standard.
 2. Not applicable for 4' & 5' height headwalls.
 3. Not applicable for 4' thru 8' height headwalls.
 4. For headwall dimensions and bar spacing see Sheet TRPWH 45-1-20.
 5. Apron m3 bars are to be centered on \bar{C} culvert.
 6. B.F.V. (c5), F.F.V. (c3) and interior wall both F.V. (c9) bars are approximately 4" from the back of parapet for all headwalls.

Plan View - Bottom Apron Reinforcing
(Curtain Wall Reinforcing not shown, See Sheet TRPWH 45-2-20)

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER	IOWA DOT Highway Division	
		Standard Design - Triple Reinforced Concrete Box Culverts	
		Parallel Wing Headwalls	
		July, 2020	
		Bottom Apron Reinforcing 45° Skew	TRPWH 45-4-20