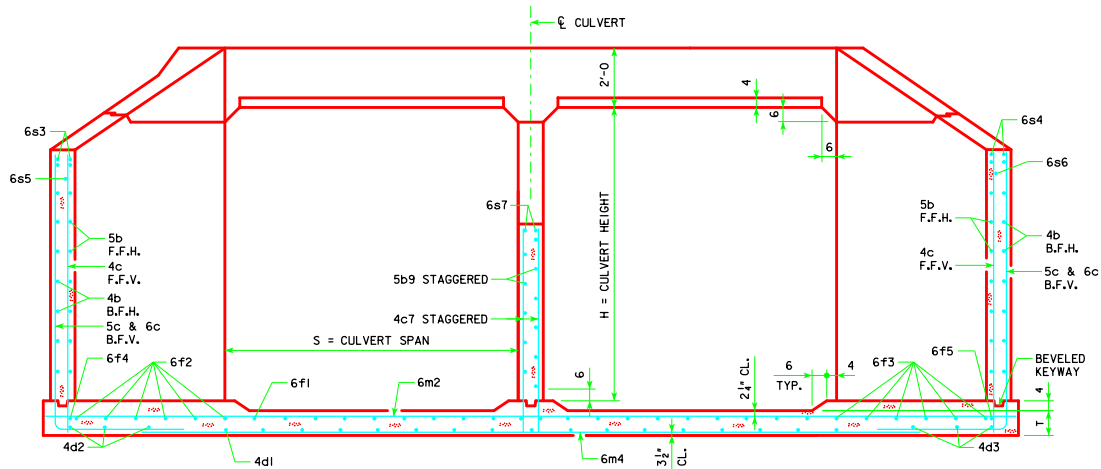
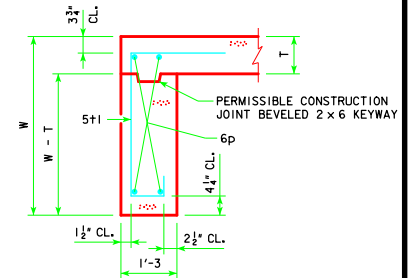


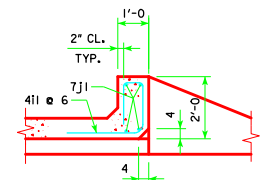
ENGLISH DESIGNED TWIN CULVERTS.DGN - TWH 30-4-12 - THIS SHEET ISSUED 04-12.



TYPICAL SECTION - NEAR CENTER OF APRON

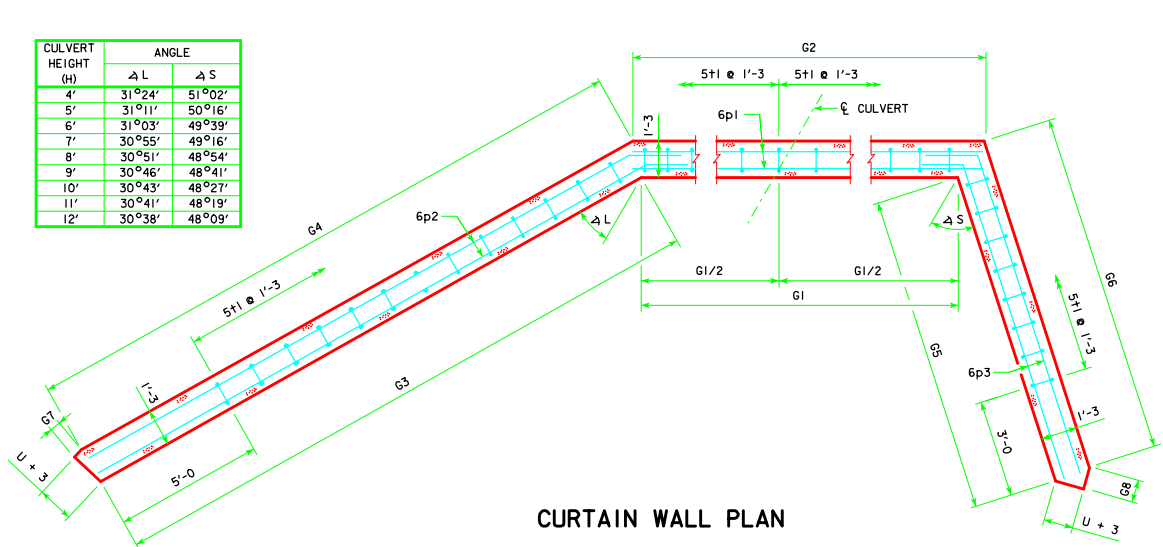


SECTION THRU CURTAIN WALL

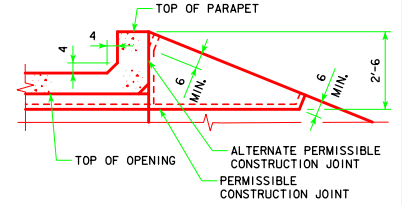
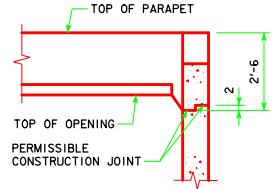


SECTION THRU PARAPET

CULVERT HEIGHT (H)	ANGLE	
	Δ L	Δ S
4'	31°24'	51°02'
5'	31°11'	50°16'
6'	31°03'	49°39'
7'	30°55'	49°16'
8'	30°51'	48°54'
9'	30°46'	48°41'
10'	30°43'	48°27'
11'	30°41'	48°19'
12'	30°38'	48°09'




CURTAIN WALL PLAN



TOP OF WINGWALL DETAILS

**NOTES:**

- SEE SHEET TWRCB G1-12 FOR GENERAL INFORMATION, SPECIFICATIONS, AND DESIGN STRESSES.
- FOR DIMENSION TABLE SEE SHEET TWH 30-2-12.

LATEST REVISION DATE  <i>Thomas E. M. Dwyer</i> APPROVED BY BRIDGE ENGINEER	 <b>Iowa Department of Transportation</b> Highway Division
	STANDARD DESIGN <b>TWIN REINFORCED CONCRETE BOX CULVERTS</b> APRIL, 2012
	<b>FLARED WING HEADWALLS</b> 30° SKEW

TWH 30-4-12