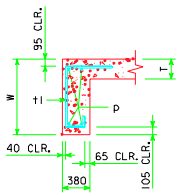
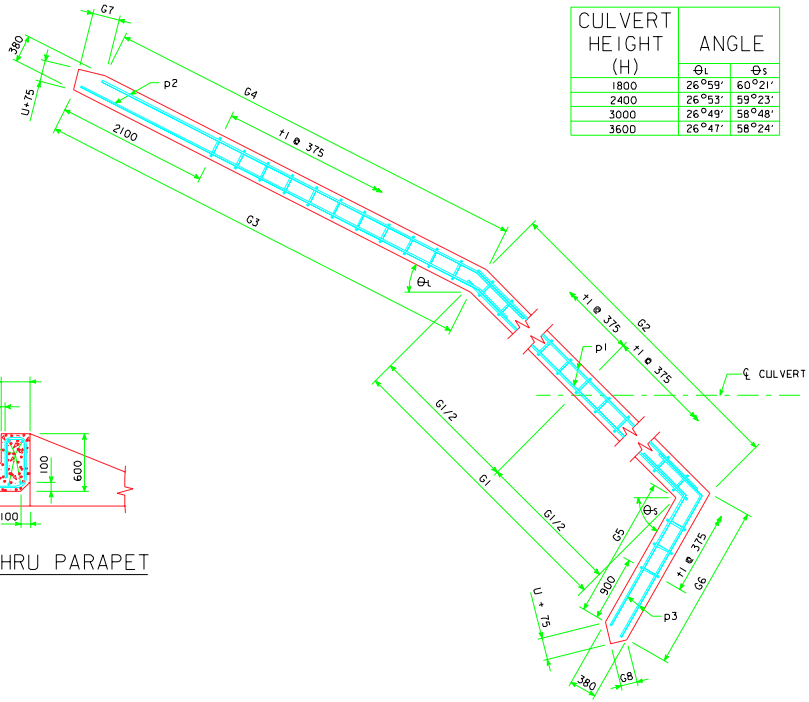
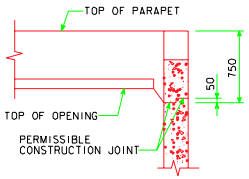


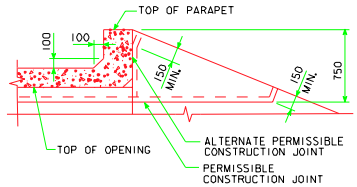
SECTION THRU CURTAIN WALL

CULVERT HEIGHT (H)	ANGLE	
	θ_1	θ_5
1800	26°59'	60°21'
2400	26°53'	59°23'
3000	26°49'	58°48'
3600	26°47'	58°24'

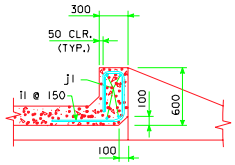


CURTAIN WALL DETAIL

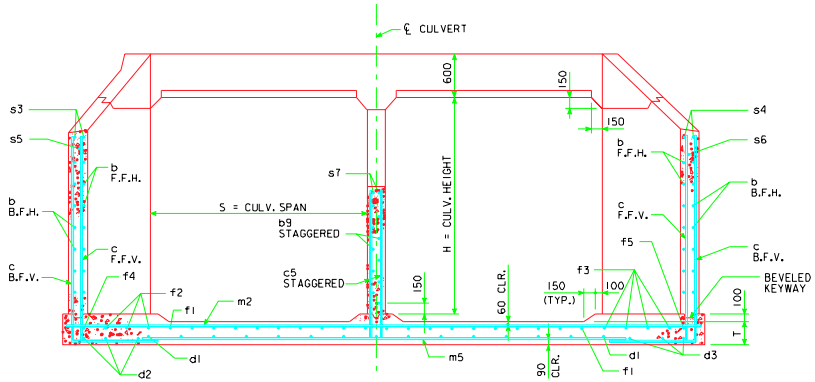




TOP OF WINGWALL DETAILS



SECTION THRU PARAPET



TYPICAL SECTION - NEAR CENTER OF APRON

NOTES:

1. SEE SHEET MTWRCB-G1-95 FOR GENERAL INFORMATION, SPECIFICATIONS, AND DESIGN STRESSES.
2. FOR DIMENSION TABLE SEE SHEET MTWH 45-1-95.

LATEST REVISION DATE : 1-1-98

APPROVED BY : William A. Knudsen

STANDARD DESIGN

FLARED WING HEADWALLS

FOR

TWIN REINFORCED CONCRETE BOX CULVERTS

PROJECT DEVELOPMENT DIVISION
IOWA DEPARTMENT OF TRANSPORTATION

JULY, 1995

MTWH 45-4-95

REVISED : 12/96 ; KEYWAY NOTATION CHANGED.
REVISED 1/98; CLEAR DISTANCE TO 11 BAR CHANGED.
TWH45SMA.SOI

XXXXXXXXXXSYSTEMTIME XXXXXXXUSERNAME XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXDGNSPEC