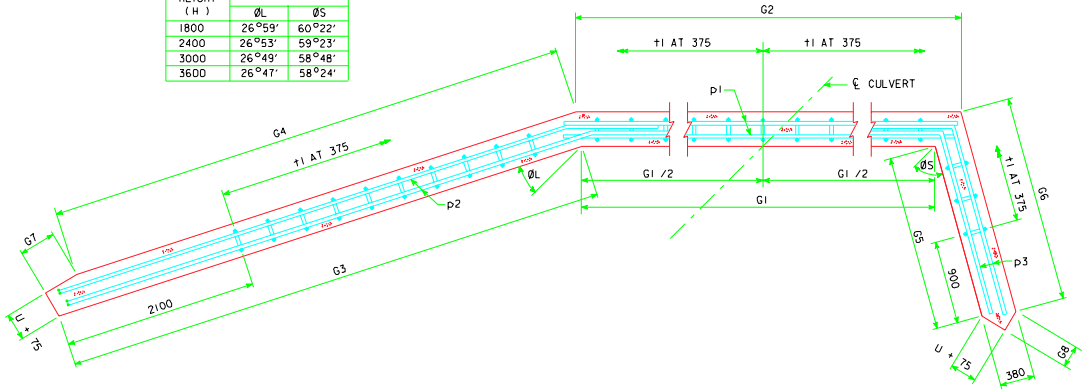
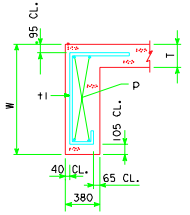
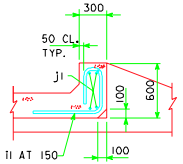
CULVERT HEIGHT (H)	ANGLE	
	ØL	ØS
1800	26°59'	60°22'
2400	26°53'	59°23'
3000	26°49'	58°48'
3600	26°47'	58°24'



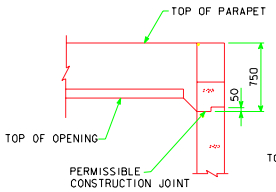
CURTAIN WALL PLAN

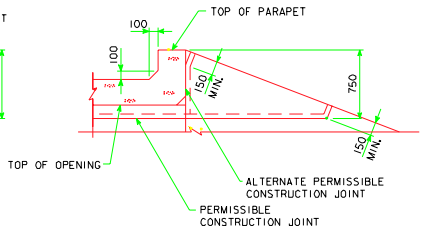


SECTION THRU CURTAIN WALL

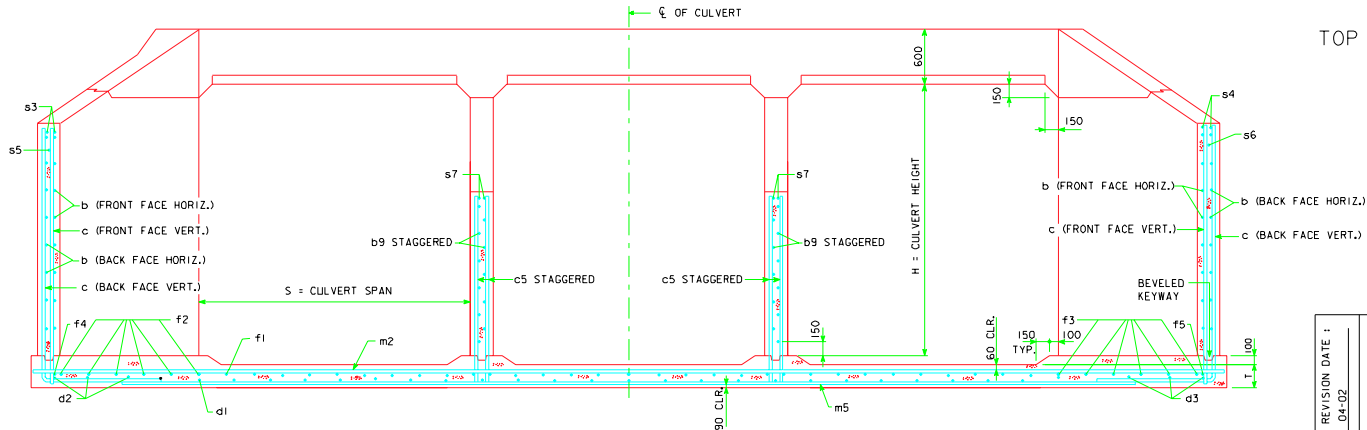


SECTION THRU PARAPET





TOP OF WINGWALL DETAILS



TYPICAL SECTION - NEAR CENTER OF APRON

NOTES:

1. SEE SHEET MTRRCB-G1-94 FOR GENERAL INFORMATION, SPECIFICATIONS, AND DESIGN STRESSES.
2. FOR DIMENSION TABLE SEE SHEET MTRH 45-1-94

LATEST REVISION DATE : 04-02

APPROVED BY : William A. Kruegert

STANDARD DESIGN

FLARED WING HEADWALLS

FOR
TRIPLE REINFORCED CONCRETE BOX CULVERTS

PROJECT DEVELOPMENT DIVISION
IOWA DEPARTMENT OF TRANSPORTATION

DECEMBER, 1994

MTRH 45-4-94

REVISED 12-96 - KEYWAY NOTATION CHANGED.
REVISED 1-98 - CLEAR DISTANCE TO 11 BAR CHANGED.

REVISED 04-02 - CHANGED BAR CLEARANCES AND PARAPET DIMENSIONS.
TRH454M.SOI

XXXXXXXXXXSYSTEMTIME XXXXXXXUSERNAME XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXDGNSPEC