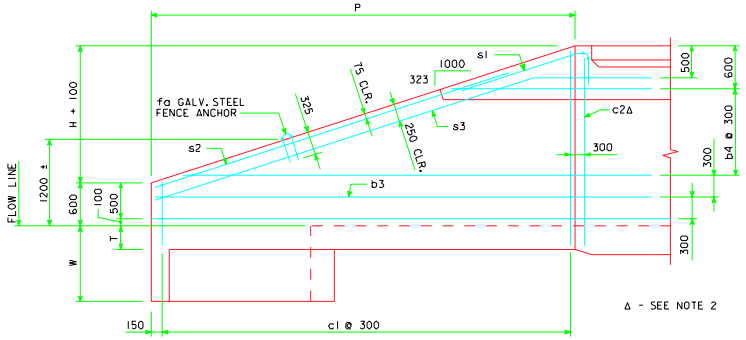
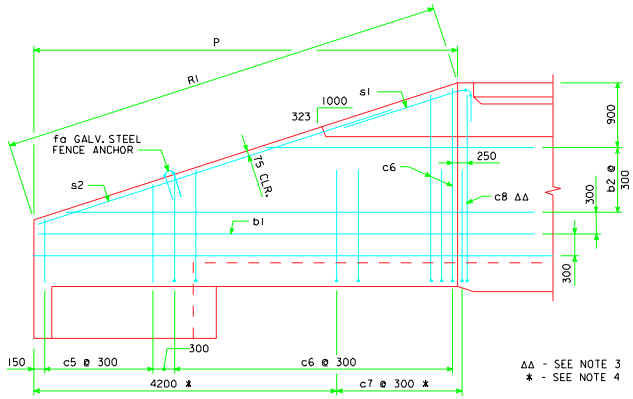
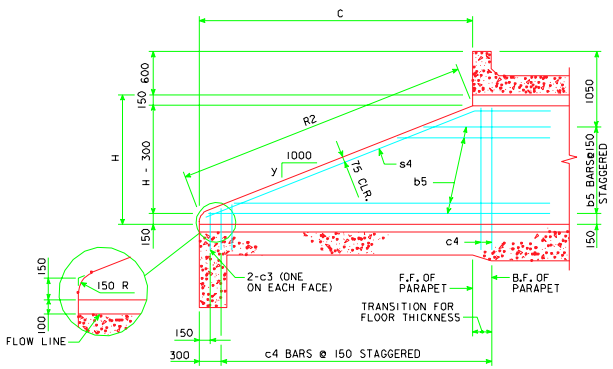


TYPICAL VIEW - FRONT FACE REINFORCING

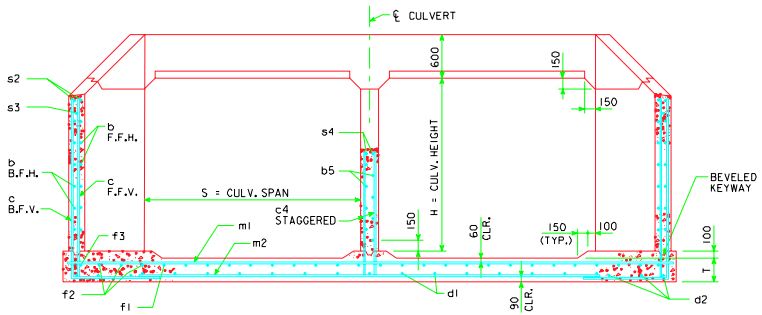


TYPICAL VIEW - BACK FACE REINFORCING

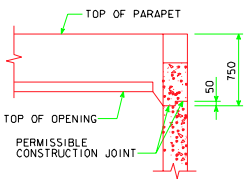


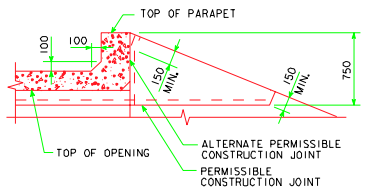
TYPICAL VIEW - CENTER WALL

CULVERT HEIGHT (H)	SLOPE y mm
1800	395
2400	420
3000	436
3600	446

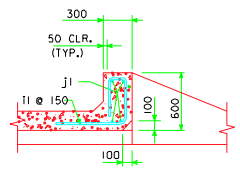


TYPICAL SECTION - NEAR CENTER OF APRON





TOP OF WINGWALL DETAILS



SECTION THRU PARAPET

NOTES:

1. BAR SPACINGS AND POSITIONS SHOWN ARE SIMILAR FOR ALL SIZES OF HEADWALLS IN THIS STANDARD.
2. ONE c2 BAR, HEADWALL HEIGHTS OF H=1800 mm, H=2400 mm AND H=3000 mm TWO c2 BARS, HEADWALL HEIGHT OF H=3600 mm.
3. ONE c8 BAR, HEADWALL HEIGHTS OF H=1800 mm, H=2400 mm AND H=3000 mm TWO c8 BARS, HEADWALL HEIGHT OF H=3600 mm.
4. NOT APPLICABLE TO HEADWALL HEIGHT OF H=1800 mm.
5. FOR DIMENSION TABLE SEE SHEET MTWH 0-1-95.

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 0-3-95

REVISED : 12/96 ; KEYWAY NOTATION CHANGED.
REVISED 1/98; CLEAR DISTANCE TO 11 BAR CHANGED.
TWHOSM.S01

XXXXXXXXXSYSTEMTIME XXXXXXXUSERNAME XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXDGNSPEC