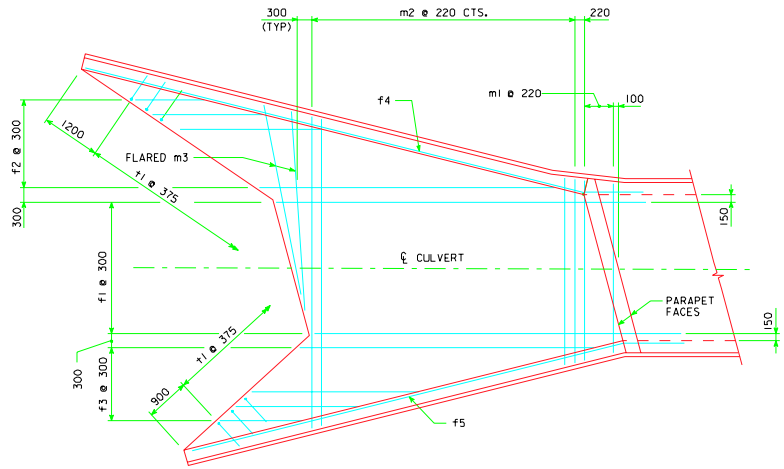
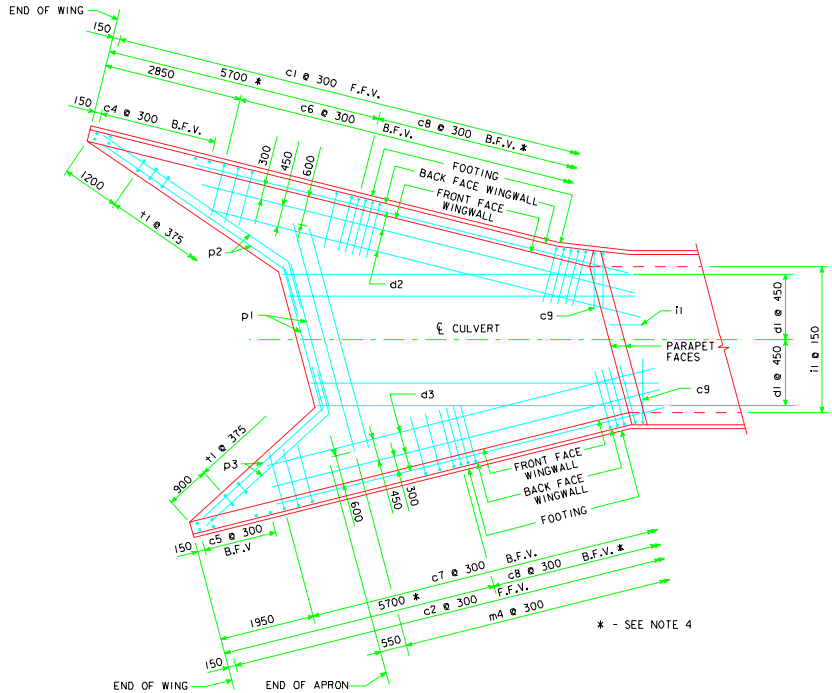
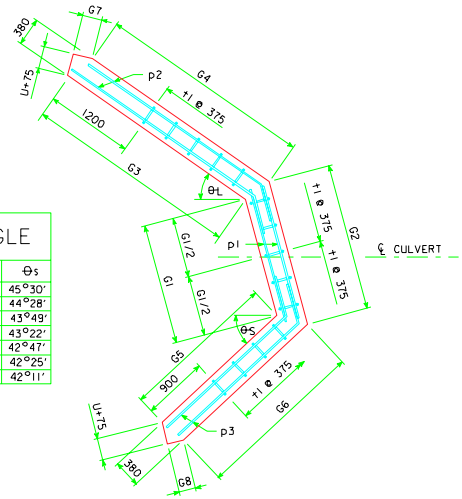


PLAN VIEW - TOP OF APRON REINFORCING BARS

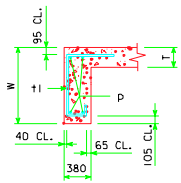


PLAN VIEW - BOTTOM OF APRON REINFORCING BARS

CULVERT HEIGHT (H)	ANGLE	
	θL	θS
900	35°57'	45°30'
1200	35°25'	44°28'
1500	35°03'	43°49'
1800	34°49'	43°22'
2400	34°30'	42°47'
3000	34°18'	42°25'
3600	34°11'	42°11'



PLAN



SECTION

CURTAIN WALL DETAILS

NOTES:

1. BAR SPACINGS AND POSITIONS SHOWN ARE SIMILAR FOR ALL SIZES OF HEADWALLS IN THIS STANDARD.
2. WINGWALL BARS CONSISTENTLY REFERENCED FROM END OF WING FOR ALL HEADWALLS.
3. TOP TRANSVERSE FLOOR BARS ARE REFERENCED APPROXIMATELY 100 mm FROM THE BACK OF THE PARAPET FOR ALL HEADWALLS.
4. THERE ARE NO c8 BARS IN THE H=900, H=1200, H=1500 AND H=1800 HEIGHT HEADWALLS.
5. FOR DIMENSION TABLE SEE SHEET MFWH 15-6-95.

LATEST REVISION DATE :

APPROVED BY : William A. Rawlinson

STANDARD DESIGN

FLARED WING HEADWALLS

FOR
REINFORCED CONCRETE BOX CULVERTS

PROJECT DEVELOPMENT DIVISION
IOWA DEPARTMENT OF TRANSPORTATION

JULY, 1995

MFWH 15-7-95

FWH157M.SOI

XXXXXXXXXXSYSTEMTIME XXXXXXXXUSERNAME XXXXXXXXXX