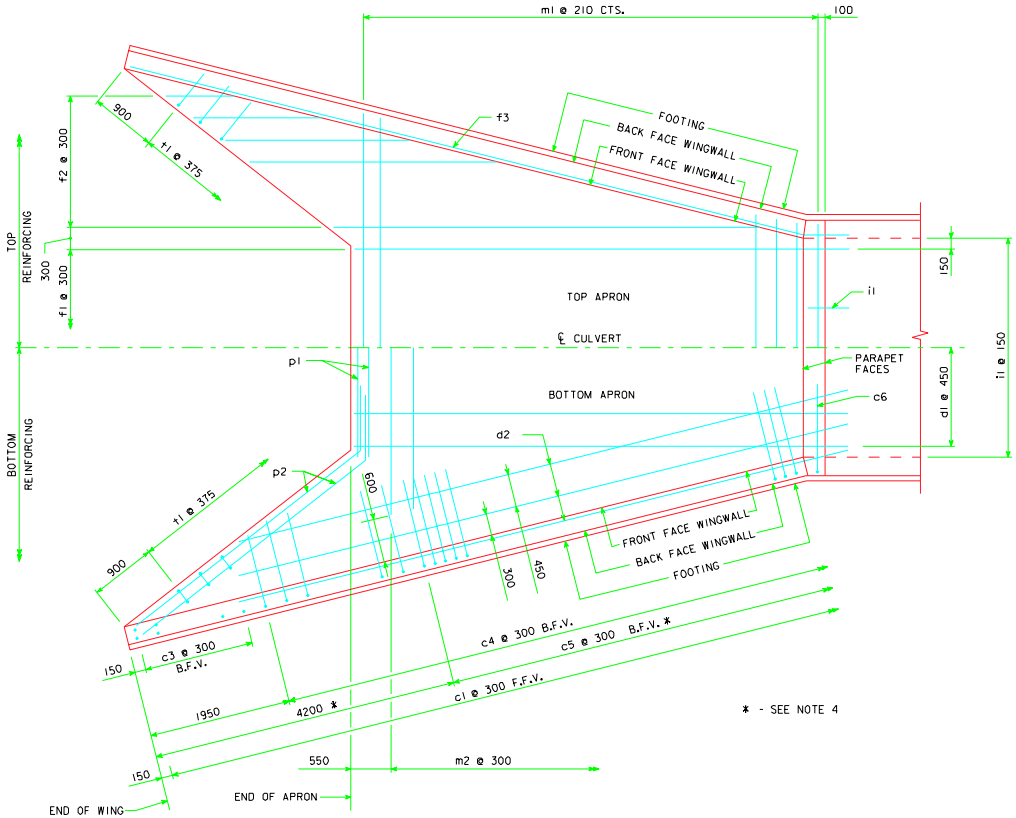
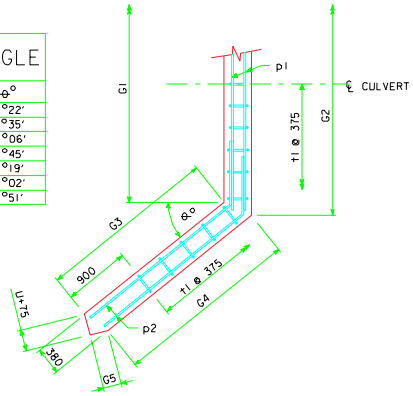
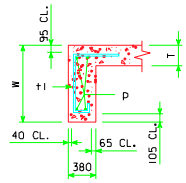


PLAN VIEW - TOP & BOTTOM OF APRON REINFORCING BARS

CULVERT HEIGHT (H)	ANGLE θ°
900	40°22'
1200	39°35'
1500	39°06'
1800	38°45'
2400	38°19'
3000	38°02'
3600	37°51'



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 c5 BARS IN THE H=900, H=1200, H=1500, AND H=1800 HEIGHT HEADWALLS.
5. FOR DIMENSION TABLE SEE SHEET MFWH 0-4-95.

LATEST REVISION DATE :

APPROVED BY : William A. Knudsen

STANDARD DESIGN

FLARED WING HEADWALLS

FOR

REINFORCED CONCRETE BOX CULVERTS

PROJECT DEVELOPMENT DIVISION

IOWA DEPARTMENT OF TRANSPORTATION

JULY, 1995

MFWH 0-5-95

FWH05M.SOI

XXXXXXXXXXSYSTEMTIME XXXXXXXXUSERNAME XXXXXXXXXX