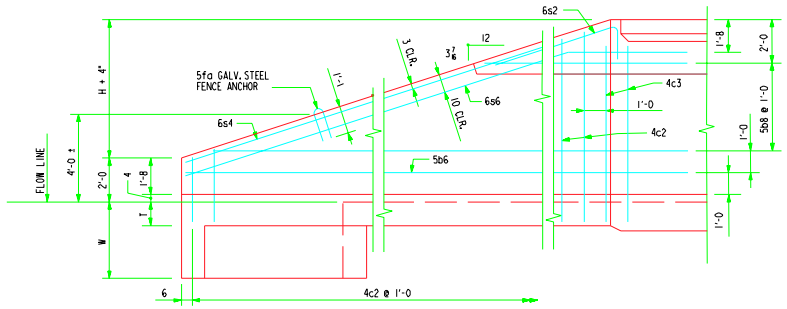
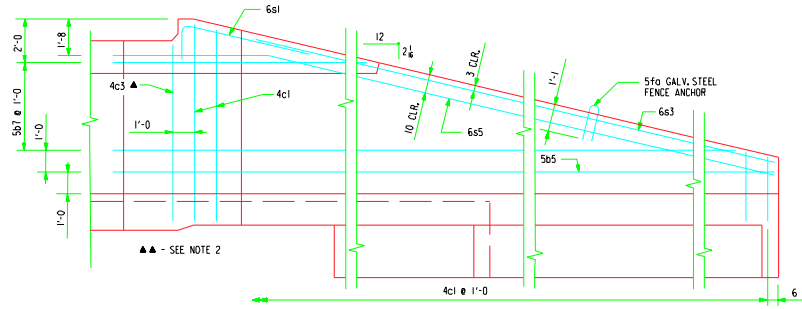
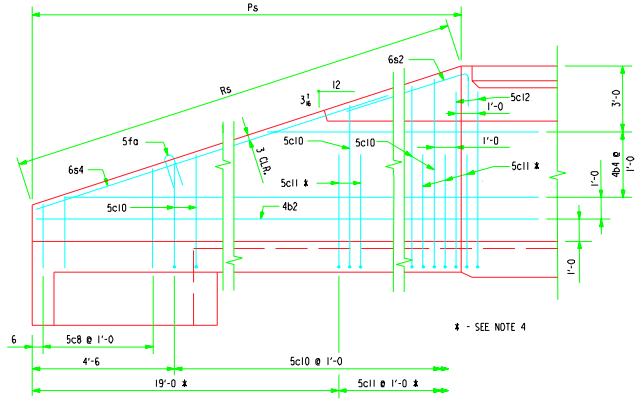


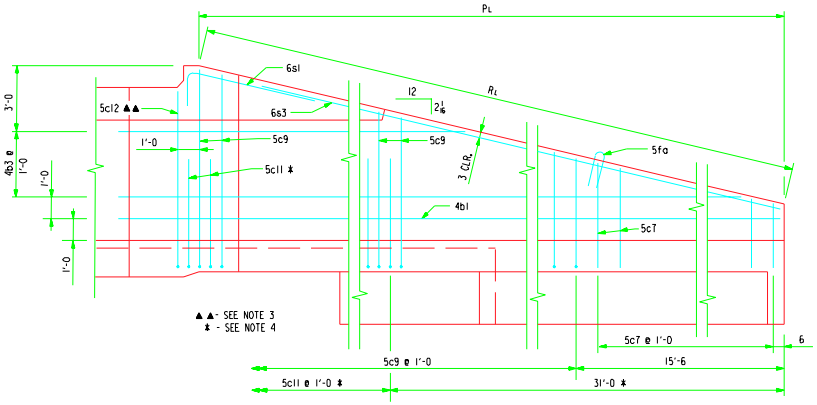
TYPICAL VIEW - FRONT FACE REINFORCING SHORT WINGWALL



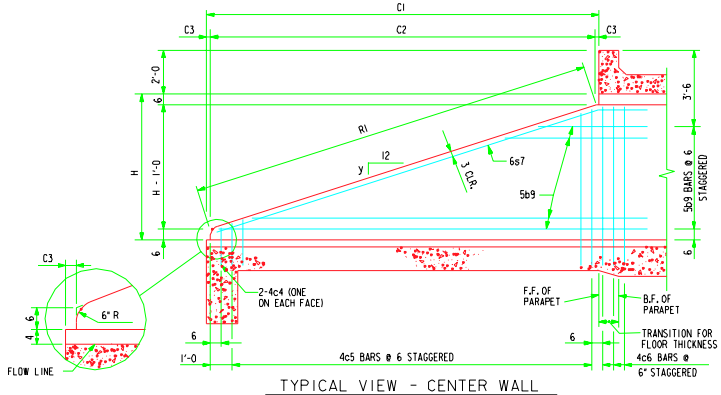
TYPICAL VIEW - FRONT FACE REINFORCING LONG WINGWALL



TYPICAL VIEW - BACK FACE REINFORCING SHORT WINGWALL



TYPICAL VIEW - BACK FACE REINFORCING LONG WINGWALL



TYPICAL VIEW - CENTER WALL

CULVERT HEIGHT (H)	SLOPE y INCHES
6'	3½
8'	3½
10'	3½
12'	3½

NOTES :

1. BAR SPACINGS AND POSITIONS SHOWN ARE SIMILAR FOR ALL SIZES OF HEADWALLS IN THIS STANDARD.
2. ONE 4c3 BAR, HEADWALL HEIGHTS OF H=6', H=8', H=12' AND TWO 4c3 BARS, HEADWALL HEIGHT OF H=10'.
3. ONE 5c12 BAR, HEADWALL HEIGHTS OF H=6', H=8', H=12' AND TWO 5c12 BARS, HEADWALL HEIGHT OF H=10'.
4. NOT APPLICABLE TO HEADWALL HEIGHT OF H=6'.
5. FOR DIMENSION TABLE SEE DRAWING TWH 45-1-87.

LATEST REVISION DATE :

APPROVED BY : William A. Knapp

STANDARD DESIGN

FLARED WING HEADWALLS

FOR
TWIN REINFORCED CONCRETE BOX CULVERTS

HIGHWAY DIVISION
IOWA DEPARTMENT OF TRANSPORTATION

JULY , 1987

TWH 45-5-87

TWH455.SOI

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