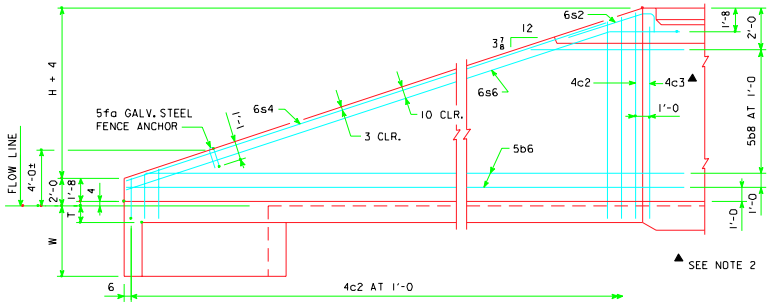
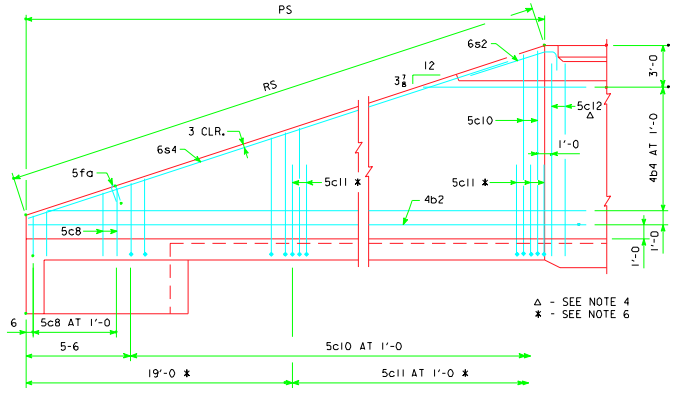
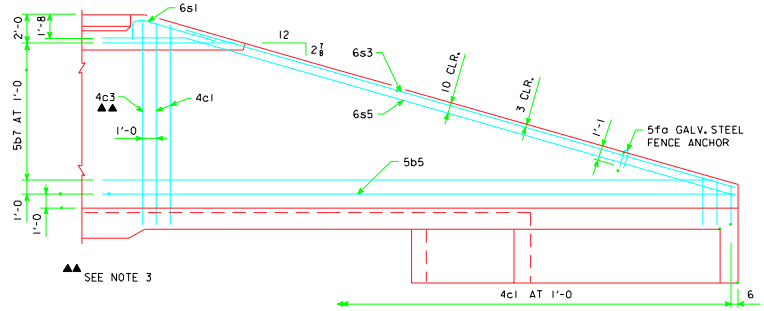


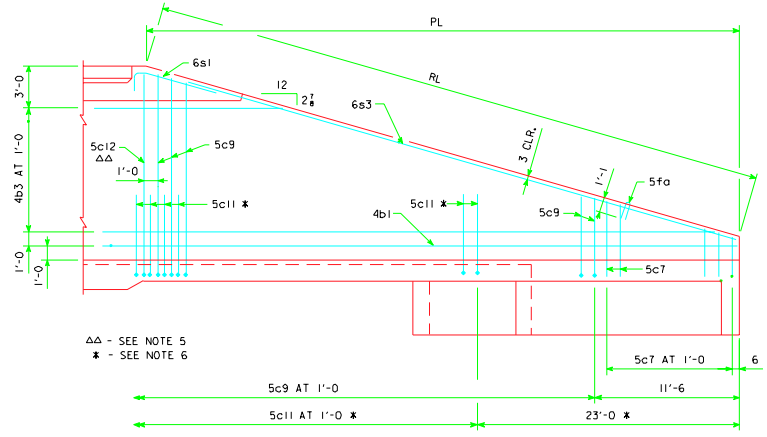
TYPICAL VIEW - FRONT FACE REINFORCING SHORT WINGWALL



TYPICAL VIEW - BACK FACE REINFORCING SHORT WINGWALL

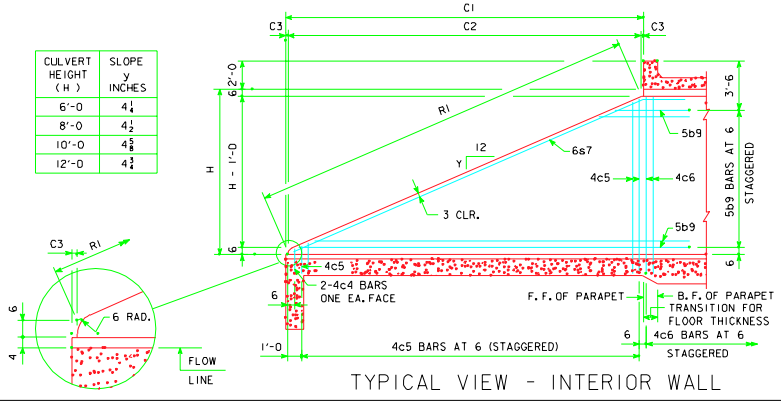


TYPICAL VIEW - FRONT FACE REINFORCING LONG WINGWALL



TYPICAL VIEW - BACK FACE REINFORCING LONG WINGWALL

CULVERT HEIGHT (H)	SLOPE y INCHES
6'-0	4 1/4
8'-0	4 1/2
10'-0	4 3/4
12'-0	4 3/4



TYPICAL VIEW - INTERIOR WALL

HEADWALL NOTES:

1. BAR SPACINGS AND POSITIONS SHOWN ARE SIMILAR FOR ALL SIZES OF HEADWALLS IN THIS STANDARD.
2. ONE c3 BAR, HEADWALL HEIGHTS OF 6'-0, 8'-0 AND TWO c3 BARS, HEADWALL HEIGHTS OF 10'-0 AND 12'-0.
3. ONE c3 BAR, HEADWALL HEIGHT OF 8'-0 AND TWO c3 BARS, HEADWALL HEIGHTS OF 6'-0, 10'-0 AND 12'-0.
4. ONE c12 BAR, HEADWALL HEIGHTS OF 6'-0, 8'-0 AND TWO c12 BARS, HEADWALL HEIGHTS OF 10'-0 AND 12'-0.
5. ONE c12 BAR, HEADWALL HEIGHT OF 6'-0 AND TWO c12 BARS, HEADWALL HEIGHTS OF 6'-0, 10'-0 AND 12'-0.
6. NOT APPLICABLE TO HEADWALL HEIGHT OF 6'-0.
7. FOR DIMENSION TABLE SEE SHEET TRH 30-1-01

LATEST REVISION DATE :

APPROVED BY :

STANDARD DESIGN

FLARED WING HEADWALLS

FOR

TRIPLE REINFORCED CONCRETE BOX CULVERTS

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

SEPT., 2001

TRH 30-4-01

TRH304.SOI - 09-01 THIS SHEET ISSUED.

XXXXXXXXXXSYSTEMTIME XXXXXXXUSERNAME XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXDGNSPEC