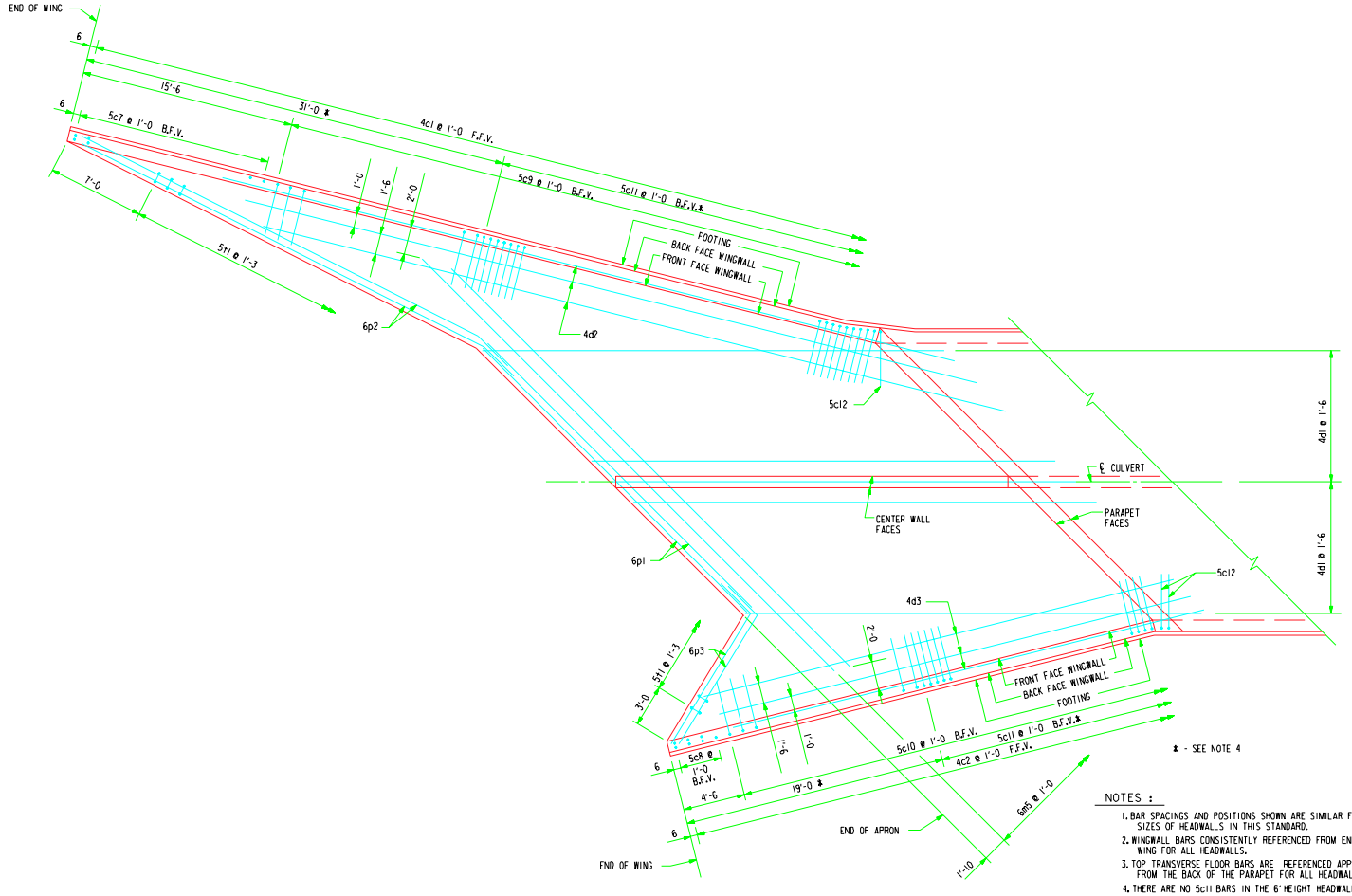

PLAN VIEW - BOTTOM OF APRON REINFORCING BARS

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 4" FROM THE BACK OF THE PARAPET FOR ALL HEADWALLS.
4. THERE ARE NO 5c11 BARS IN THE 6' HEIGHT HEADWALL.
5. FOR DIMENSION TABLE SEE DRAWING TWH 45-1-87.
6. FOR REINFORCING IN CURTAIN WALL SEE CURTAIN WALL DETAILS ON DRAWING TWH 45-4-87.

LATEST REVISION DATE :

APPROVED BY : William A. Kruse

STANDARD DESIGN

FLARED WING HEADWALLS

FOR

TWIN REINFORCED CONCRETE BOX CULVERTS

HIGHWAY DIVISION

IOWA DEPARTMENT OF TRANSPORTATION

JULY , 1987

TWH 45-3-87

TWH453.S01

XXXXXXXXXXSYSTEMTIME XXXXXXXUSERNAME XXXXXXXXXX