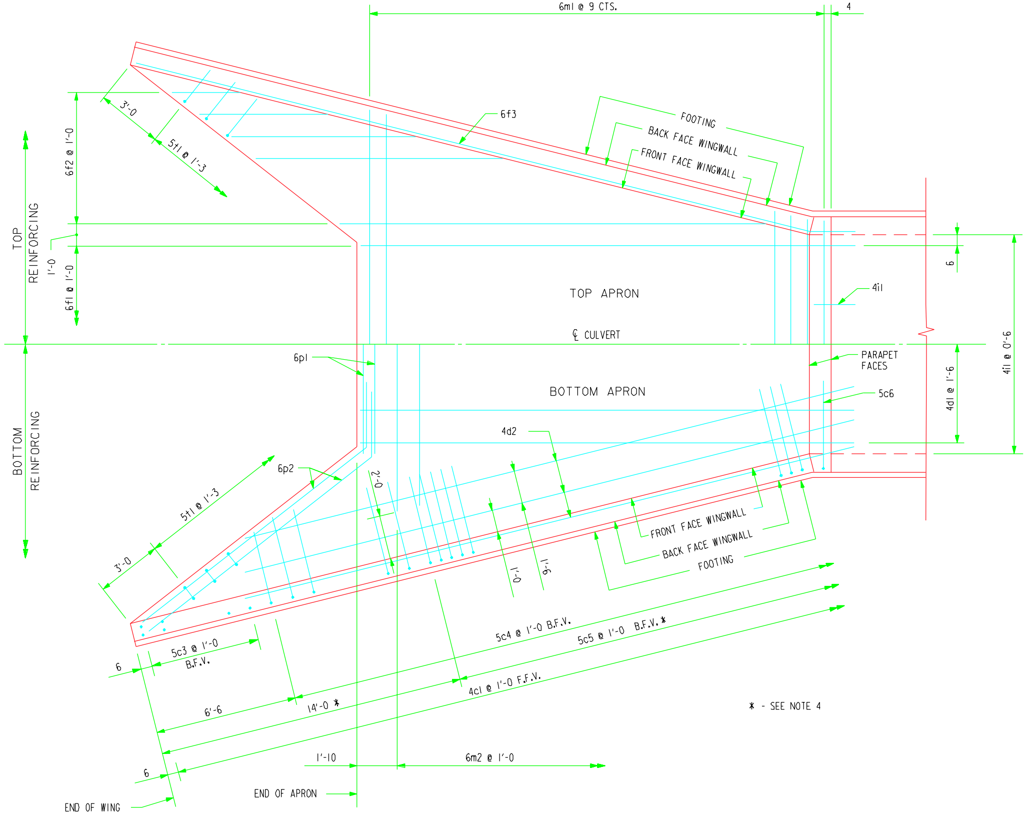
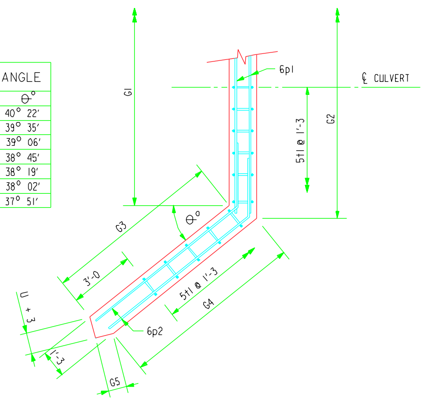
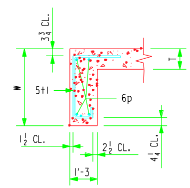


PLAN VIEW - TOP & BOTTOM OF APRON REINFORCING BARS

CULVERT HEIGHT (H)	ANGLE Θ°
3'	40° 22'
4'	39° 35'
5'	39° 06'
6'	38° 45'
8'	38° 19'
10'	38° 02'
12'	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 4" FROM THE BACK OF THE PARAPET FOR ALL HEADWALLS.
4. THERE ARE NO 5c5 BARS IN THE 3',4',5' AND 6' HEIGHT HEADWALL.
5. FOR REINFORCING IN CURTAIN WALL SEE CURTAIN WALL DETAILS THIS DWG.
6. FOR DIMENSION TABLE SEE DWG. FWH 0-3-87.
7. THERE ARE NO 6m2 BARS IN THE 3' & 4' SPAN HEADWALLS.

LATEST REVISION DATE : 8-1-89

APPROVED BY : William A. Lundquist

STANDARD DESIGN

FLARED WING HEADWALLS

FOR REINFORCED CONCRETE BOX CULVERTS

HIGHWAY DIVISION
IOWA DEPARTMENT OF TRANSPORTATION

MAY , 1987

FWH 0-4-87

FWH04.S01 -REVISED : 8/89 ; NOTE #7 ADDED.

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