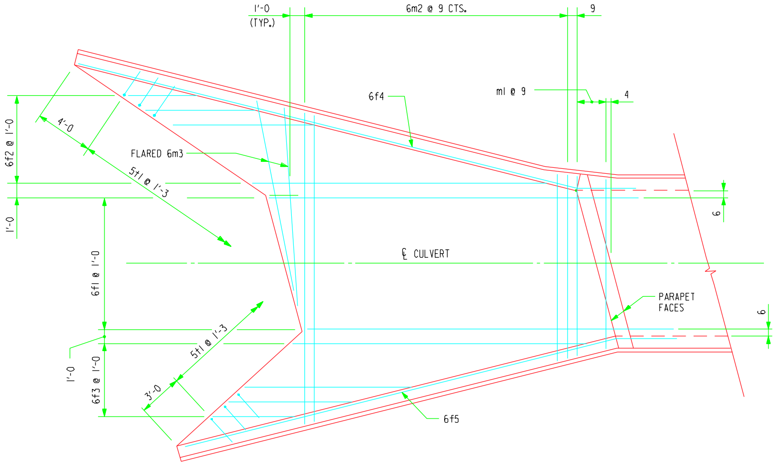
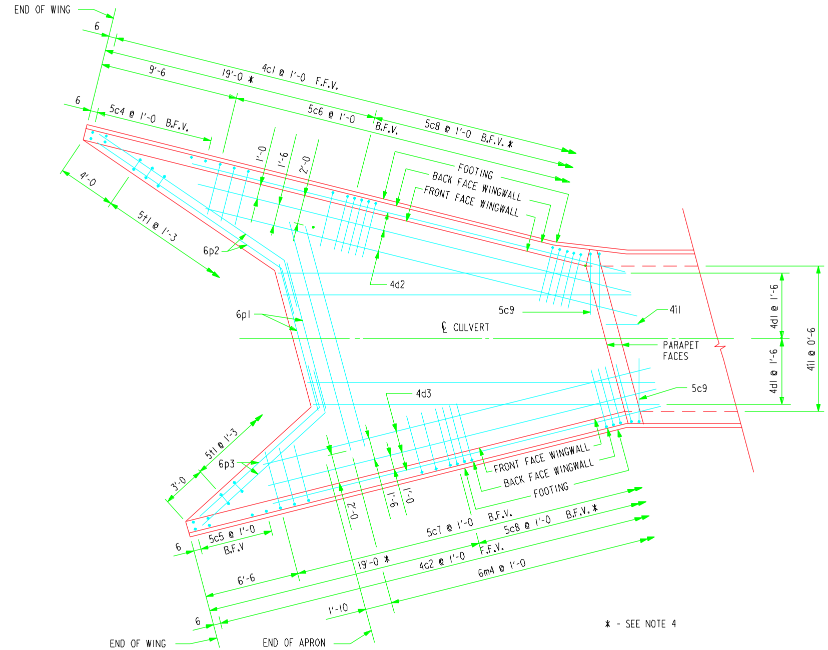
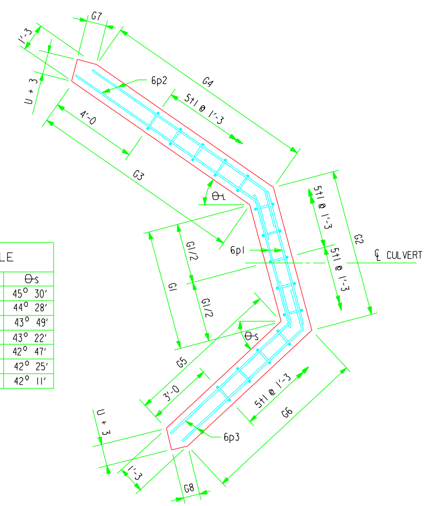


PLAN VIEW - TOP OF APRON REINFORCING BARS

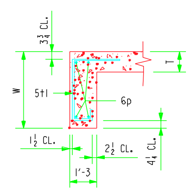


PLAN VIEW - BOTTOM OF APRON REINFORCING BARS

CULVERT HEIGHT (H)	ANGLE	
	θ_L	θ_S
3'	35° 57'	45° 30'
4'	35° 25'	44° 28'
5'	35° 03'	43° 49'
6'	34° 49'	43° 22'
8'	34° 30'	42° 47'
10'	34° 18'	42° 25'
12'	34° 11'	42° 11'



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 5c8 BARS IN THE 3', 4', 5', AND 6' HEIGHT HEADWALL.
5. FOR REINFORCING IN CURTAIN WALL SEE CURTAIN WALL DETAILS ON THIS DWG.
6. FOR DIMENSION TABLE SEE DWG. FWH 15-4-87.

LATEST REVISION DATE :

APPROVED BY : William A. Lundquist

STANDARD DESIGN

FLARED WING HEADWALLS

FOR
REINFORCED CONCRETE BOX CULVERTS

HIGHWAY DIVISION
IOWA DEPARTMENT OF TRANSPORTATION

MAY , 1987

FWH 15-5-87

FWH155.S01

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