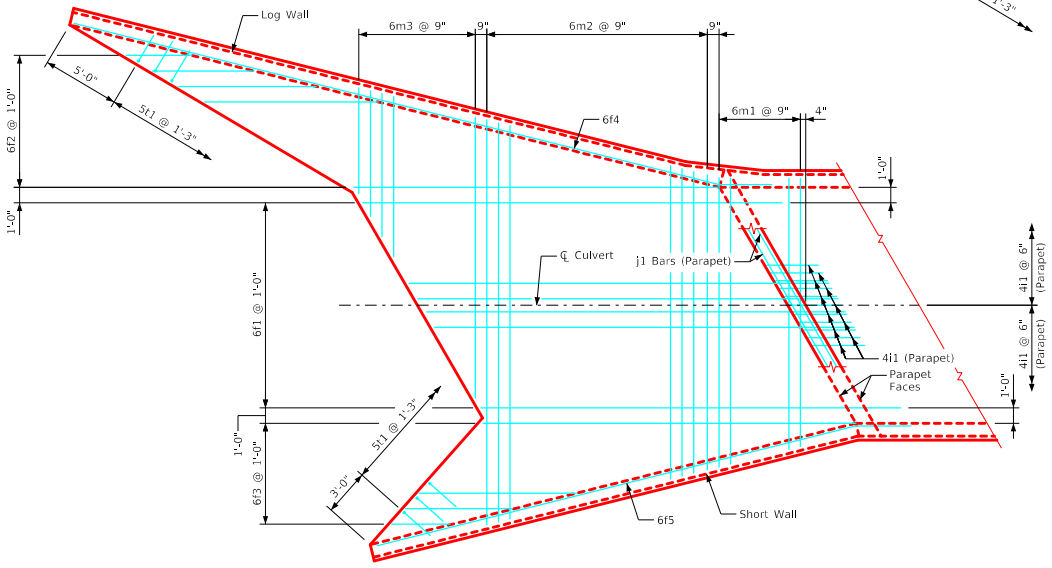
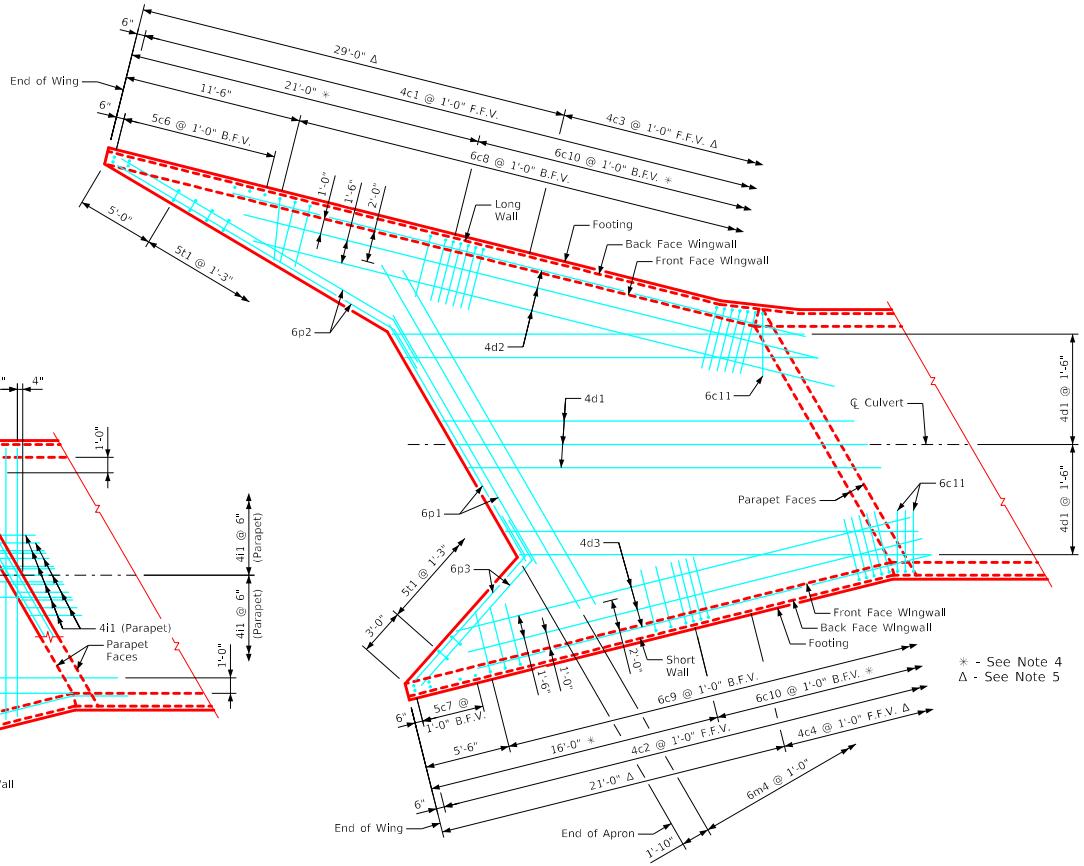



Plan View - Top of Apron Reinforcing




Plan View - Bottom of Apron Reinforcing

## 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 6c10 bars in the 3' thru 6' height headwalls.
5. 4c3 & 4c4 bars used only in the 9' thru 14' height headwalls.
6. For dimension table see Sheet FWH 30-2-21.
7. For reinforcing in curtain wall see Curtain Wall Details on Sheet FWH 30-4-21.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

IOWADOT Highway Division

Standard Design - Single Reinforced Concrete Box Culverts

# Flared Wing Headwalls

February, 2021

## Apron Details 30° Skew

FWH 30-3-21



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