$$*\ \text{FOR } 2:1 \text{ SLOPE, USE } 2$$

$L = (\text{SLOPE}^* )(H2)$

$L \approx W2 + W3 + W4$

$H1 = \text{VERT. CLEARANCE} + \text{ROOF SLAB} + 2''$

$X = \text{WING LENGTH (SEE FIGURE 9-12)}$

$H4 = H1 - H3$

$W1 = 1'\text{-}3''$

$W2 = 10''$ FOR VERTICAL CLEARANCE THRU $10'\text{-}0''$

$W2 = 12''$ FOR VERTICAL CLEARANCE OVER $10'\text{-}0''$

$W3 = L - W2 - W4$

$W4 = (X)\text{SIN}\alpha$

$W5 = \text{WIDTH OF FTG. AT END OF WING} = \dfrac{H3 + F1}{2}$

$W5t\,(\text{toe}) = (1/3\ W5) - W2\ (\text{MIN. } 8'')$

$W5h\,(\text{heal}) = 2/3\ W5\ (\text{MIN. } 9'')$

$W6 = \text{WIDTH OF FTG. AT END OF WING} = \dfrac{H1 + F1}{2}$

$W6t\,(\text{toe}) = (1/3\ W6) - W2\ (\text{MIN. } 8'')$

$W6h\,(\text{heal}) = 2/3\ W6\ (\text{MIN. } 9'')$

$W6 = W6t + W6h + W2$

$W7 = (X)\text{COS}\alpha$

H1, H2, H3, H4, W2, W5 AND W6 ARE THE SAME FOR BOTH WINGS.

W6 IS LOCATED AT THE OUTSIDE CORNER OF THE CULVERT WALL.

USE MAX. W5 AND W6 FOR BOTH WINGS.

## LAYOUT FOR TURNED BACK CULVERT WINGS

## FIGURE 9 – 14