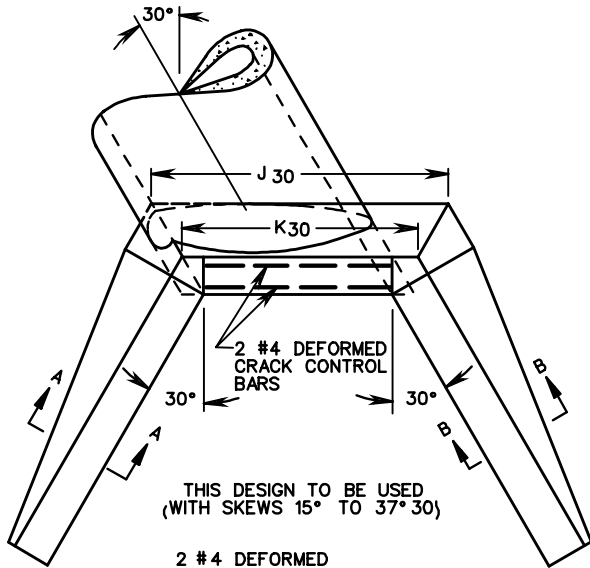


NOTES:

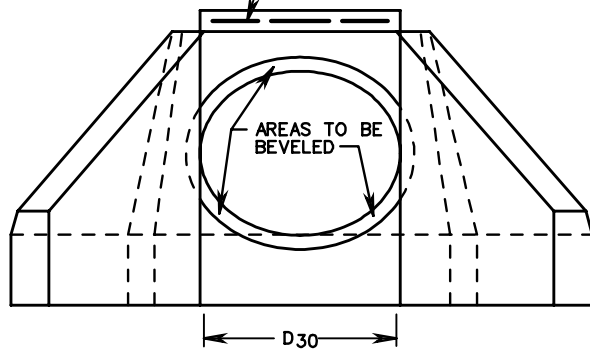
1. ALL DETAILS AND DIMENSIONS NOT SHOWN ARE THE SAME AS STANDARD EW-2. FOR TABLES OF DIMENSIONS AND VOLUMES SEE SHEET 2 OF 2. FOR DETAILS OF BEVEL REFER TO STANDARD EW-1, 1APC SHEET 101.02.
2. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
3. ALL CAST IN PLACE CONCRETE TO BE CLASS A3. FOR PRECAST SEE SHEET 101.10.
4. COST OF BARS FOR CRACK CONTROL TO BE INCLUDED IN PRICE BID PER CUBIC YARD CONCRETE.
5. HEADWALL TO BE BEVELED IN ALL AREAS EXCEPT WHERE A CONFLICT WITH INVERT OR WINGWALLS OCCUR.
6. BEVEL EDGE IS REQUIRED ON THE HEADWALL AT THE INLET END OF THE CULVERT (WHERE THE FLOW ENTERS THE CULVERT).
7. HEADWALL AT THE OUTLET END OF THE CULVERT MAY BE EITHER SQUARE EDGE OR BEVEL EDGE.
8. ON SHALLOW FILLS, WHERE ENDWALLS ARE 1' OR LESS BELOW SHOULDER LINE, THE TOP OF THE ENDWALL SHALL BE CONSTRUCTED PARALLEL TO THE GRADE OF THE ROAD.
9. IN NO CASE SHALL TOP OF ENDWALL PROJECT ABOVE FILL SLOPE, DITCH SLOPE, OR SHOULDER.
10. 3/4" CHAMFER MAY BE PROVIDED ON ALL EDGES AT MANUFACTURER'S OPTION.

| DIMENSIONS FOR BEVEL ON HEADWALL | | |
|----------------------------------|-----------|-----------|
| PIPE I.D. | a | b |
| 42" | 0'-4 1/2" | 0'-3 1/2" |
| 48" | 0'-5" | 0'-4" |
| 54" | 0'-5 3/4" | 0'-4 1/2" |
| 60" | 0'-6 1/4" | 0'-5" |
| 66" | 0'-7" | 0'-5 1/2" |
| 72" | 0'-7 1/2" | 0'-6" |
| 78" | 0'-8 1/4" | 0'-6 1/2" |
| 84" | 0'-8 3/4" | 0'-7" |
| 90" | 0'-9 1/2" | 0'-7 1/2" |
| 96" | 0'-10" | 0'-8" |

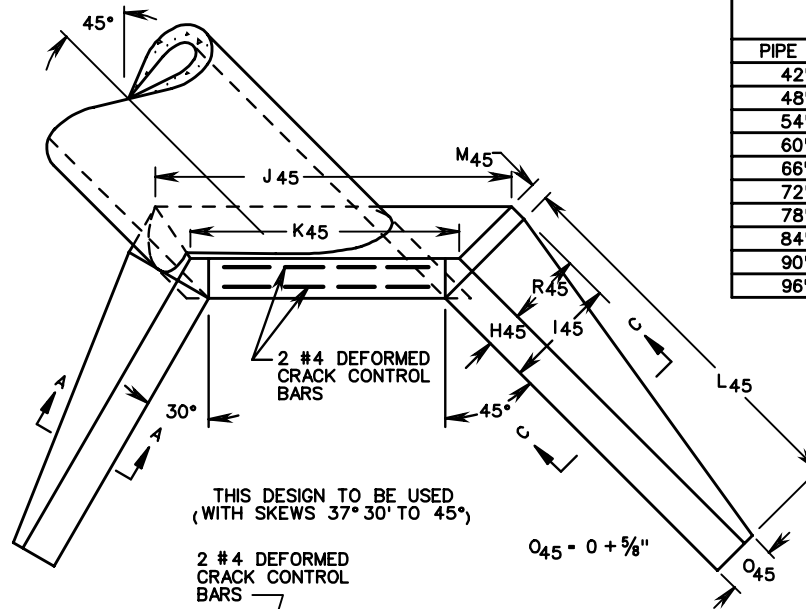


THIS DESIGN TO BE USED
(WITH SKEWS 15° TO 37° 30')

2 #4 DEFORMED
CRACK CONTROL
BARS

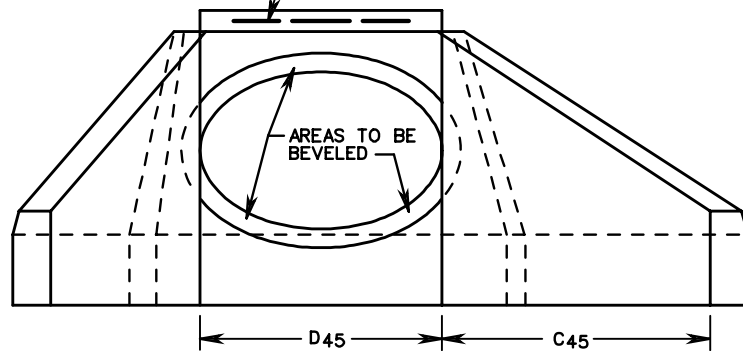


D30
30° SKEW

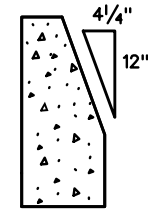


THIS DESIGN TO BE USED
(WITH SKEWS 37° 30' TO 45°)

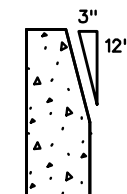
2 #4 DEFORMED
CRACK CONTROL
BARS



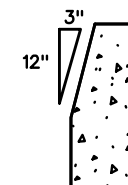
D45
C45
45° SKEW



SECTION C-C



SECTION B-B



SECTION A-A

**STANDARD ENDWALLS FOR 42"-96" PIPE CULVERTS
30° AND 45° SKEW**