LAYING OUT THE STAIRS

1. MEASURE TOTAL RISE (DISTANCE FROM TOP OF JOISTS TO GROUND LEVEL).
2. DIVIDE TOTAL RISE BY 7 1/2" AND ROUND TO NEAREST WHOLE NUMBER TO GET TOTAL NUMBER OF RISERS NEEDED. DIVIDING BY 9" WILL GIVE A STEEPER SLOPE AND DECREASE THE TOTAL RUN.
3. DIVIDE TOTAL RISE BY THIS NUMBER. THIS WILL GIVE THE HEIGHT OF EACH RISER.
4. MULTIPLY NUMBER OF RISERS BY 10" TO GET TOTAL RUN (DISTANCE FROM BACK OF DECK TO FRONT OF BOTTOM STEP).

EXAMPLE:
1. TOTAL RISE = 18"
2. 18"/7 1/2" = 2.4, round to 2
3. 90°/14 = 6.4" -- HEIGHT OF RISER
4. 14 x 10" = 140" -- TOTAL RUN

STAIR LAYOUT DETAILS

A. POST
   DECK
   BEAM
   1/2" BOLTS
   1 1/2" MIN.

B. POST
   ANGLE
   DECK

IRON SECURITY WITH TWO 3/8" DIA.
WOOD SCREWS IN EACH LEG

SLOPING TOP RAIL TO IMPROVE DURABILITY

APRON
TOP RAIL:
SLOPES
4 x 4 POST

3

NOTES:
1. WEATHER RESISTANT WOOD (i.e., REDWOOD) OR PRESERVATIVE (CCA) PRESSURE TREATED WOOD SHOULD BE USED. USE LUMBER THAT HAS BEEN REOUSED AFTER PRESERVATIVE TREATMENT WILL REDUCE WARPING.
2. SECURELY ANCHOR BASE OF POST TRENCHING ON ALL 4 SIDES MAY BE ENOUGH BUT IF FAILURE WOULD CAUSE BAD FALL ALTERNATE ANCHORAGE SHOULD BE CONSIDERED.

CAUTION:
BEAR HEIGHT SHOULDN'T BE AT LEAST 30" AND, FOR CHILDREN, RAIL SPACING NEEDS TO BE MAINTAINED TO PREVENT FALLING THROUGH BUT NOT BE OF A WIDTH THAT WOULD CATCH A CHILD'S HEAD.