

PLAN VIEW-(AT VARIOUS LEVELS LEFT TO RIGHT: WATERLINE, FIRST PAD SUPPORT, TOP PAD, CABINET TOP, & END WATER DISTRIBUTION LINE.)

## PAD CABINET DESIGN - EXAMPLE

## ASSUME:

- 1.) ONE AIR CHANGE PER MINUTE. 2.) I.E. BLDG. W/L=200, W=50', H=7.5' CALCULATE:

- ALCULATE:

  1. FAN CAPACITY=200X50X7.5=75,000 CFM.

  2. PAD AREA=75,000 CFM X \$FT\*/1000 CFM=375 FT\*

  3 LEVELS @ 2.5 WIDE 8. 50 LONG=375 FT\* COK)

  3. INLET VELOCITY=75,000 CFM +3 X 50 = 500 FFM<600 (OK)

  4. PAD WATER FLOW=75,000 CFM x 4 6PM/1000 CFM=30 GPM.

  5. NOZZLE PATTERN=30 GPM+50'= 6 GPM/FT.

  SELECT: HALF CIRCLE FLAT SPRAY NOZZLES

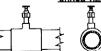
  AT .3 ± .03 GPM @ 15 PSI, 6 0.C.





- A) USE 5 DRILL 8 10-32 MACHINE TAP INTO PVC.
- B) HAND TIGHTEN 3 OR 4 TURNS.

ALTERNATE: ADJUSTABLE FULL OR HALF CIRCLE SHRUB HEADS AT .6±.1 GPM @ 15 PSI, 1'O.C.



- A) SPACE NOZZLES TO AT LEAST A DOUBLE OVER LAP PATTERN. B) DIRECT SPRAY DOWNLINE.
- 6.PUMP H.P. = Qh/2000 = 30 GPM X 59/2000 = .89 7. BLEED-OFF = 75,000 CFM X .05 GPM/1000 CFM = 4 GPM

## CABINET LINING SUGGESTIONS

- t) USE 3/6" OR 1/4" CEMENT ASBESTOS BD. FOR CABINET, SPLASH & DRAIN STORAGE LININGS.
- 2.) WATERPROOF W/2" NYLON MESH TAPE TO CORNERS A SEAMS. COAT W/EMULSIFIED ASPHALT. ALTERNATE: USE FIBERGLASS TAPE. COAT W/155FT POLYETHLENE RESIN. VENTILATE OR USE GAS MASK.CLEAN BRUSH W/ACETATE.

