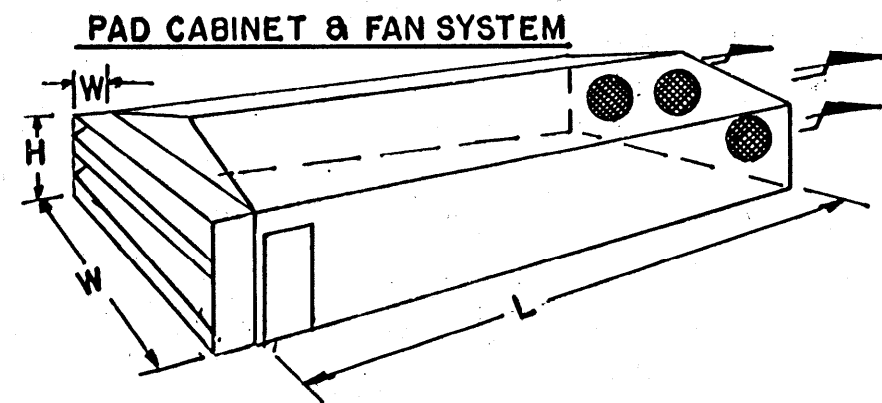


PLAN VIEW-(AT VARIOUS LEVELS LEFT TO RIGHT: WATERLINE, FIRST PAD SUPPORT, TOP PAD, CABINET TOP, & END WATER DISTRIBUTION LINE.)



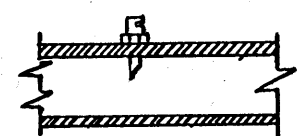
PAD CABINET DESIGN - EXAMPLE

ASSUME:

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

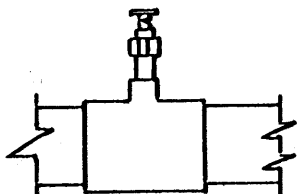
CALCULATE:

1. FAN CAPACITY = $200 \times 50 \times 7.5 = 75,000$ CFM.
2. PAD AREA = $75,000 \text{ CFM} \times 5 \text{ FT}^2/1000 \text{ CFM} = 375 \text{ FT}^2$
3 LEVELS @ 2.5' WIDE & 50' LONG = 375 FT² (OK)
3. INLET VELOCITY = $75,000 \text{ CFM} \div 3' \times 50' = 500 \text{ FPM} < 600$ (OK)
4. PAD WATER FLOW = $75,000 \text{ CFM} \times 4 \text{ GPM}/1000 \text{ CFM} = 30 \text{ GPM}$.
5. NOZZLE PATTERN = $30 \text{ GPM} \div 50' = .6 \text{ GPM}/\text{FT}$.
SELECT: HALF CIRCLE FLAT SPRAY NOZZLES
AT $.3 \pm .03 \text{ GPM} @ 15 \text{ PSI}, 6" \text{ O.C.}$



- A) USE $\frac{5}{32}$ " DRILL & 10-32 MACHINE TAP INTO PVC.
- B) HAND TIGHTEN 3 OR 4 TURNS.

ALTERNATE: ADJUSTABLE FULL OR HALF CIRCLE SHRUB HEADS AT $.6 \pm .1 \text{ GPM} @ 15 \text{ PSI}, 1' \text{ O.C.}$

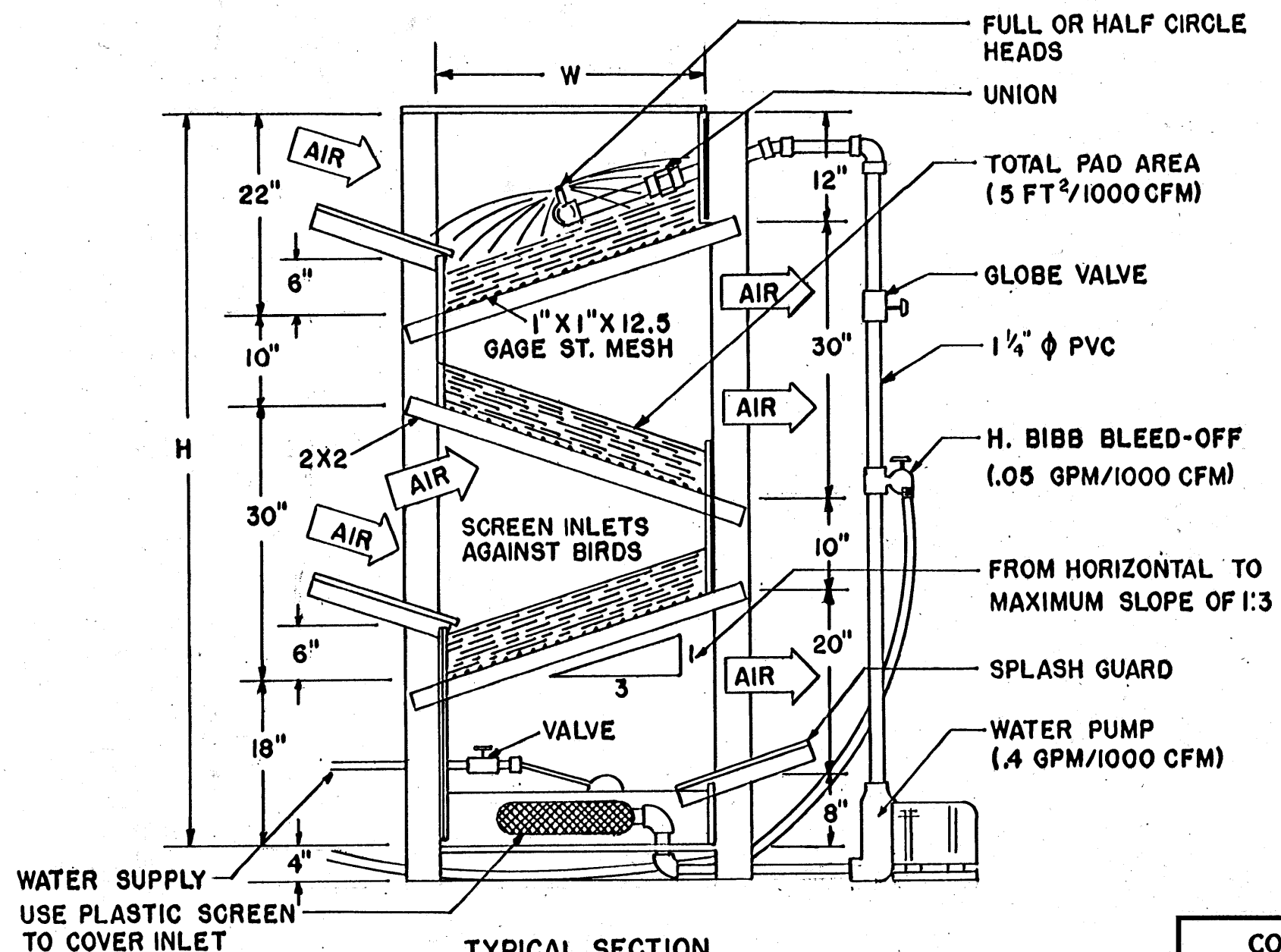


- A) SPACE NOZZLES TO AT LEAST A DOUBLE OVER LAP PATTERN.
- B) DIRECT SPRAY DOWNLINE.

6. PUMP H.P. = $Qh/2000 = 30 \text{ GPM} \times 59/2000 = .89$
7. BLEED-OFF = $75,000 \text{ CFM} \times .05 \text{ GPM}/1000 \text{ CFM} = 4 \text{ GPM}$

CABINET LINING SUGGESTIONS

- 1.) USE $\frac{3}{16}$ " OR $\frac{1}{4}$ " CEMENT ASBESTOS BD. FOR CABINET, SPLASH & DRAIN STORAGE LININGS.
- 2.) WATERPROOF W/ $\frac{1}{2}$ " NYLON MESH TAPE TO CORNERS & SEAMS. COAT W/EMULSIFIED ASPHALT. ALTERNATE: USE FIBERGLASS TAPE. COAT W/ $\frac{1}{4}$ " 5 FT² POLYETHYLENE RESIN. VENTILATE OR USE GAS MASK. CLEAN BRUSH W/ACETATE.



TYPICAL SECTION
SCALE: $\frac{3}{4}" = 1'-0"$



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EVAPORATIVE COOLING
PAD CABINET

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