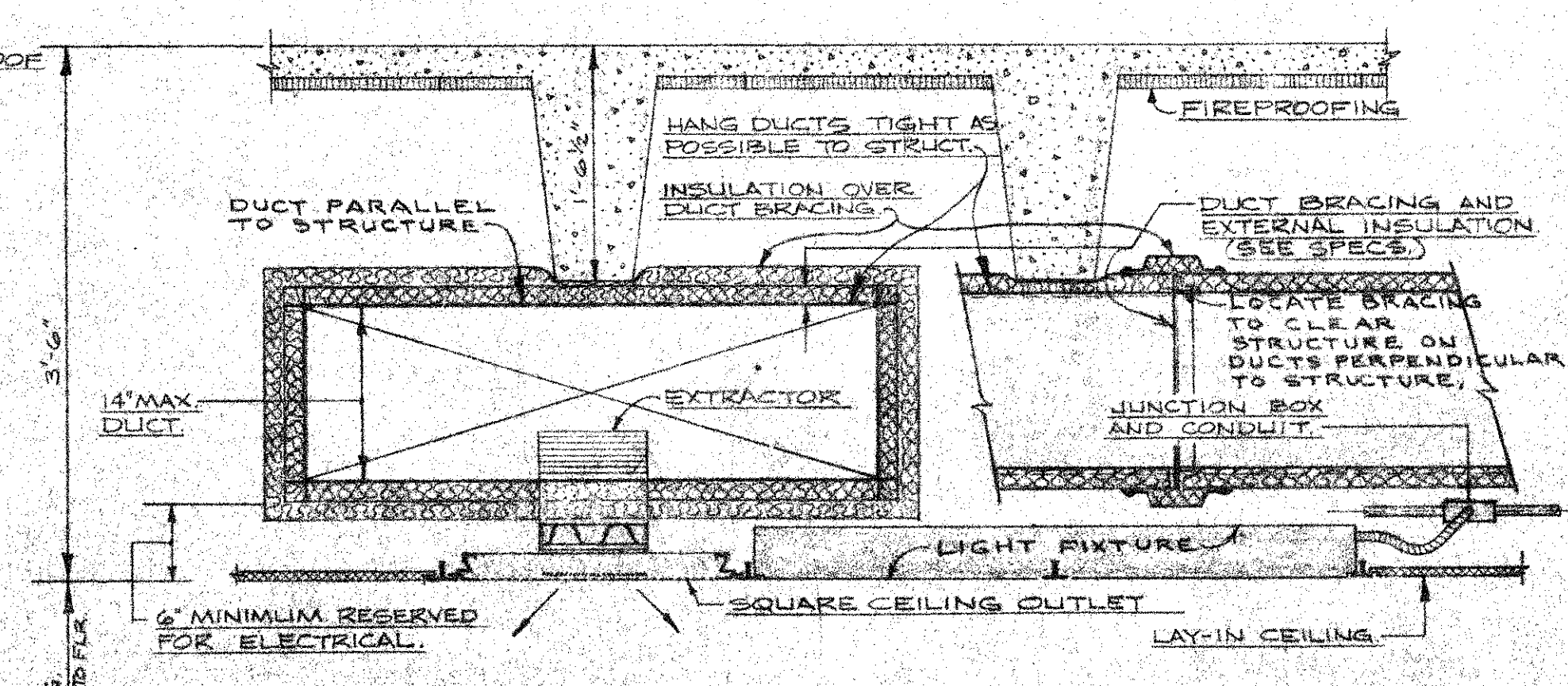
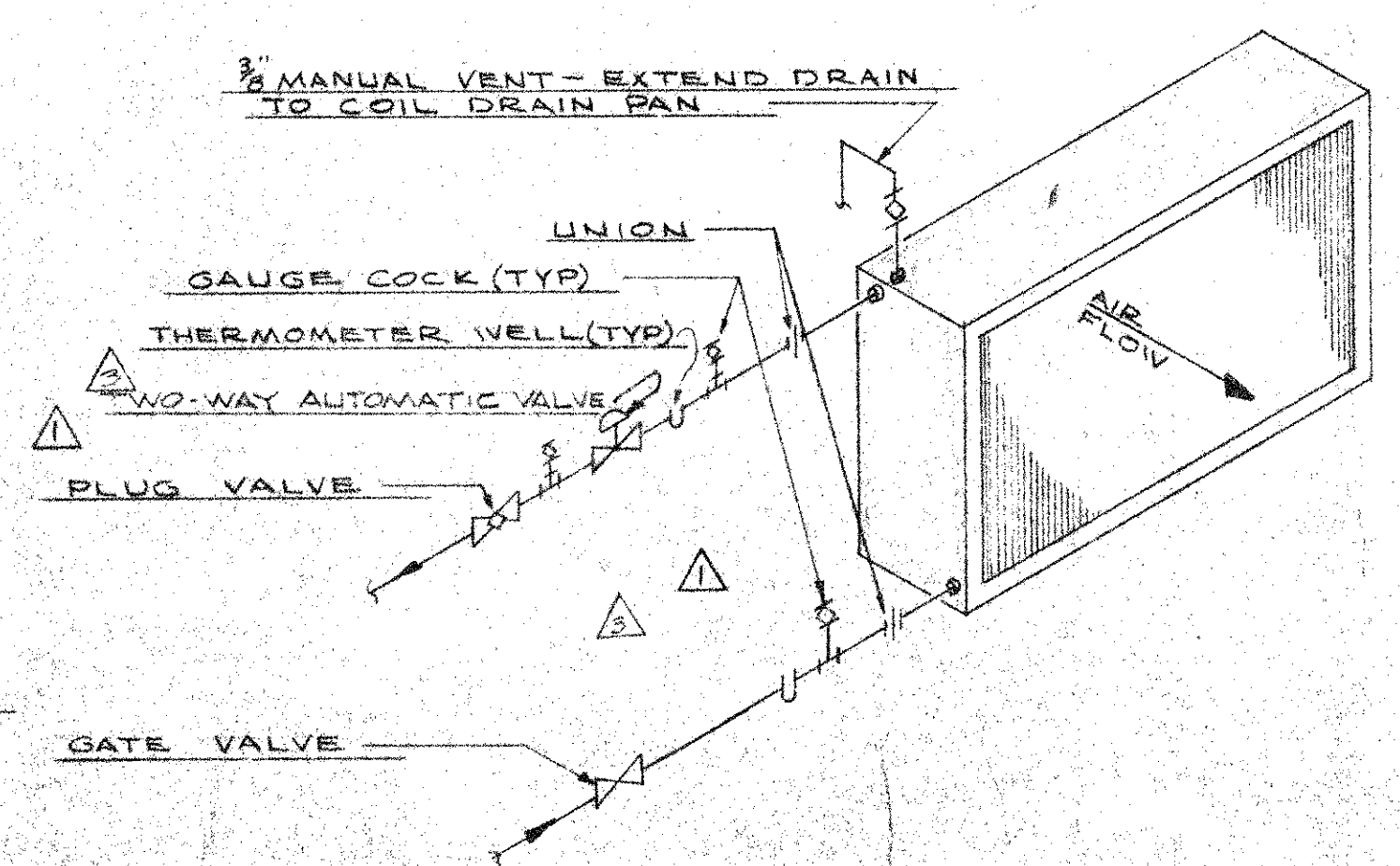


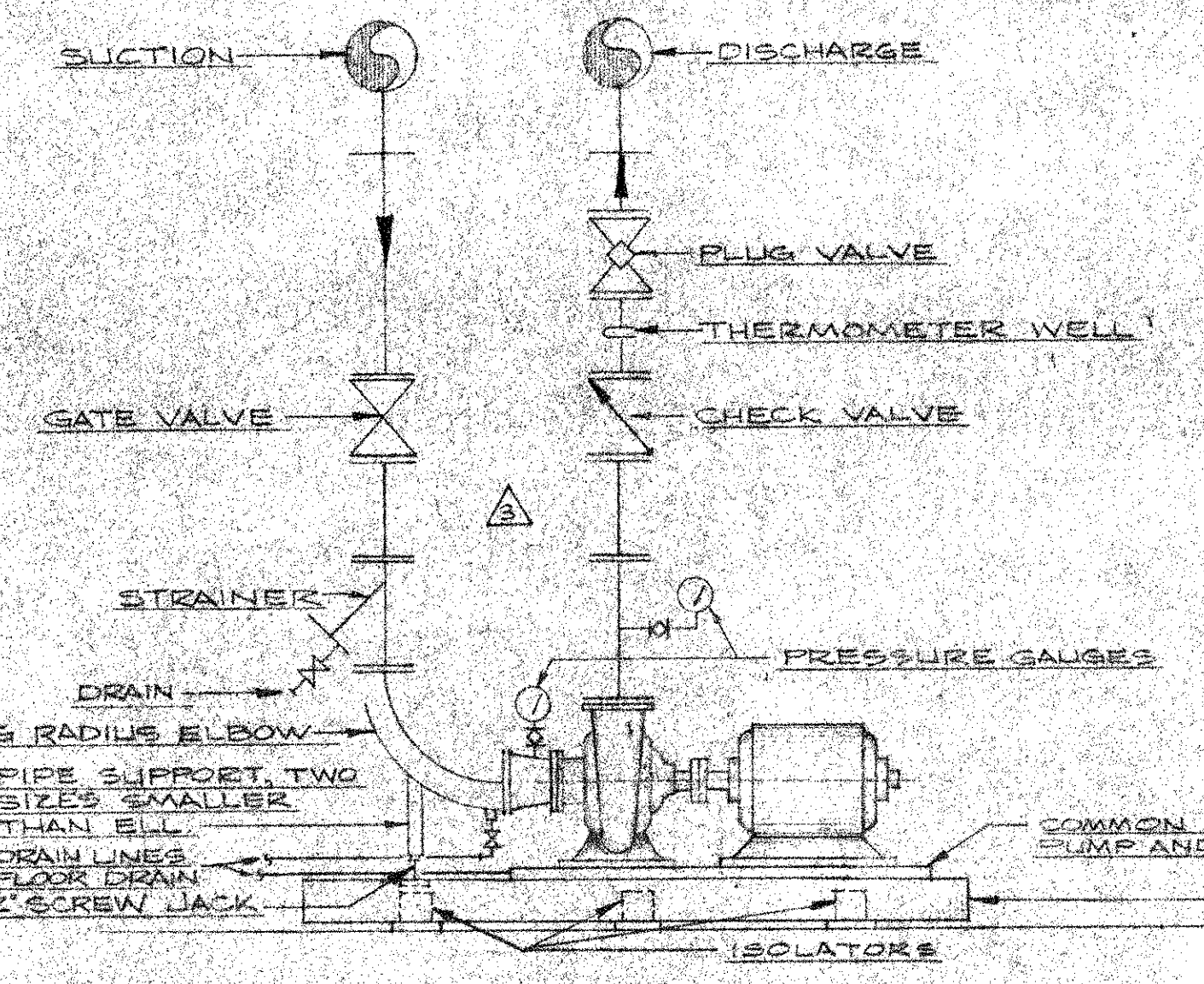
PIPING RISER DIAGRAM
NO SCALE



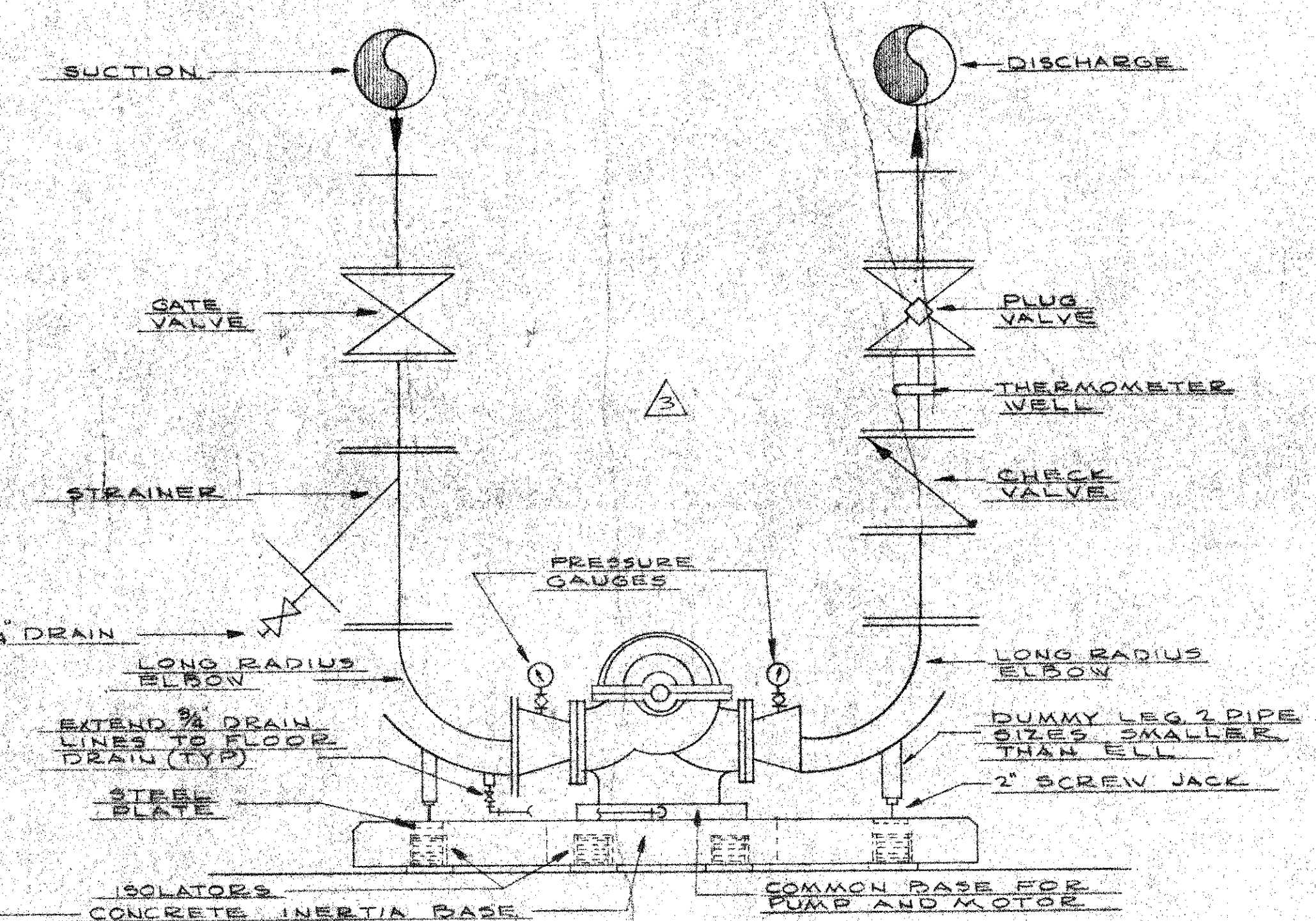
CRITICAL CONNECTION TO OUTLET UNDER TRUNK DUCT - DETAIL
SCALE: 1" = 1'-0"
NOTE LIMITATION ON CEILING OUTLET HEIGHT.



TYPICAL CHILLED WATER COIL, PREHEAT COIL, REHEAT COIL, & DOMESTIC WATER HEAT EXCHANGER PIPING DIAGRAM
NO SCALE



TYPICAL END SUCTION CENTRIFUGAL PUMP PIPING DIAGRAM
NO SCALE



TYPICAL DOUBLE SUCTION CENTRIFUGAL PUMP PIPING DIAGRAM
NO SCALE

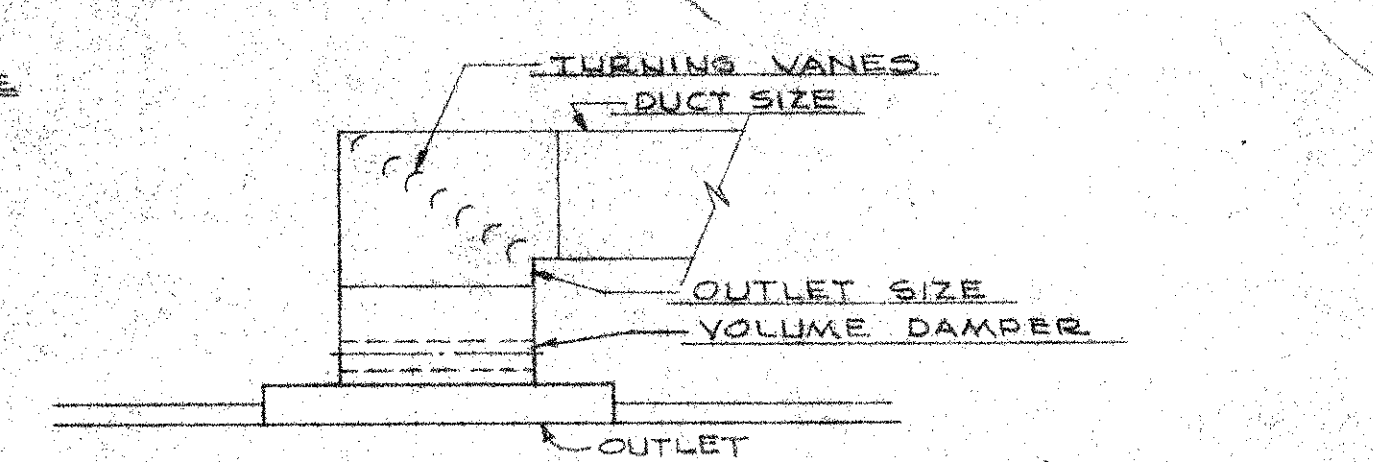
FLOOR	SOUTH CHASE	NORTH CHASE
ROOF	54"x20"	24"x24"
12TH FLOOR	48"x20" 11400 CFM	2100 CFM 30"x24"
11TH	44"x20" 11400 CFM	2100 CFM 30"x24"
10TH	38"x20" 11400 CFM	2100 CFM 44"x24"
9TH	34"x20" 11400 CFM	2100 CFM 40"x24"
8TH	28"x20" 11400 CFM	2100 CFM 34"x24"
7TH	24"x20" 11400 CFM	2100 CFM 28"x24"
6TH	24"x20" 11400 CFM	2100 CFM 24"x24"
5TH	20"x20" 11400 CFM	2100 CFM 24"x24"
4TH	20"x20" 11400 CFM	2100 CFM 22"x20"
3RD	20"x20" 11400 CFM	2100 CFM 18"x16"
2ND	18"x16" 1000 CFM	400 CFM 18"x16"
1ST	18"x16" 1000 CFM	400 CFM 18"x16"
BASEMENT		

OUTSIDE AIR TO EQUIPMENT ROOMS RISER DIAGRAM
NO SCALE

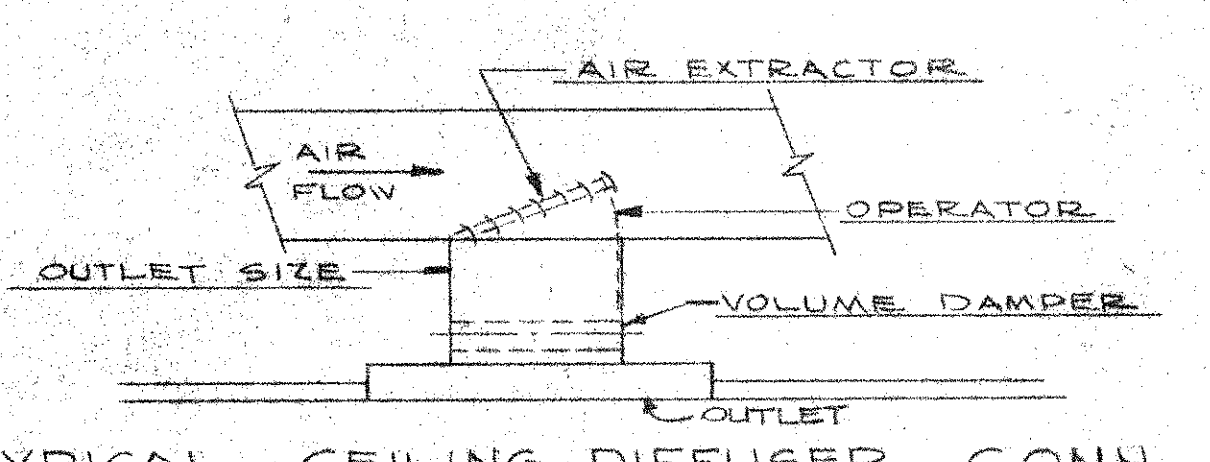
FLOOR	SOUTH CHASE	NORTH CHASE
ROOF	15'500 CFM	20000 CFM
11TH	40"x30" 500 CFM	52"x30" 475 CFM
10TH	40"x28" 500 CFM	50"x30" 475 CFM
9TH	40"x24" 500 CFM	50"x30" 475 CFM
8TH	34"x20" 500 CFM	50"x28" 475 CFM
7TH	32"x20" 500 CFM	50"x26" 475 CFM
6TH	28"x20" 500 CFM	42"x26" 475 CFM
5TH	26"x20" 500 CFM	36"x26" 475 CFM
4TH	24"x20" 500 CFM	30"x26" 475 CFM
3RD	22"x20" 500 CFM	24"x24" 415 CFM
2ND	18"x18" 250 CFM	20"x20" 415 CFM
1ST	18"x18" 250 CFM	20"x18" 275 CFM
BASEMENT		

TYPICAL TRUNK DUCT TAKE-OFF DETAIL
NO SCALE

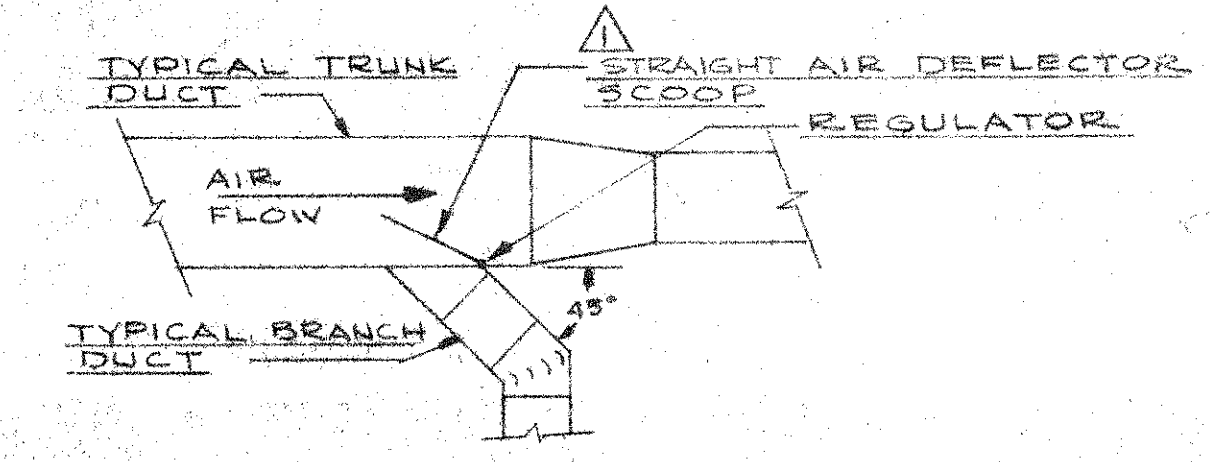
LEGEND OF MECHANICAL SYMBOLS	
SYMBOL	DESCRIPTION
CHWS	CHILLED WATER SUPPLY PIPING
CHWR	CHILLED WATER RETURN PIPING
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
D	DRAIN PIPING
U	PIPING UNION
CV	CHECK VALVE
S	STRAINER
GV	GATE VALVE (PLAN VIEW)
GV	GATE VALVE (IN RISER)
GV	GLOBE VALVE
GV	PLUG VALVE
GV	THREE-WAY CONTROL VALVE
GV	CONTROL VALVE - STRAIGHT THRU
TM	THERMOMETER
TM	THERMOMETER WELL
AD	ACCESS DOOR IN DUCT
GC	GAUGE COCK
FD	FIRE DAMPER WITH ACCESS PANEL
FD	GLASS PANEL DAMPER
FD	THERMOSTAT
FD	AUTOMATIC DAMPER
FD	TEMPERATURE INDICATOR
FS	FLOW SWITCH
SWR	SIDEWALL SUPPLY REGISTER
SCO	SQUARE CEILING SUPPLY OUTLET
RAR	RETURN AIR REGISTER
EXR	EXHAUST REGISTER
EXRP	EXHAUST REGISTER PERFORATED
RARG	RETURN AIR GRILLE
RARP	RETURN AIR REGISTER PERFORATED
LDA	LINEAR DIFFUSER
FD	FIRE DETECTING DEVICE
SD	SPLITTER DAMPER
V.D	OPPOSED BLADE VOLUME DAMPER
MD	MANUAL VOLUME DAMPER
BFV	BUTTERFLY VALVE



TYPICAL CEILING DIFFUSER CONN. DETAIL AT END OF DUCT
NO SCALE



TYPICAL CEILING DIFFUSER CONN. DETAIL BELOW TRUNK DUCT
NO SCALE



TYPICAL TRUNK DUCT TAKE-OFF DETAIL
NO SCALE