AIR CONDITIONING AND VENTILATING SUPPLY SYSTEMS

SYSTEM No.	QUANTITY	LOCATION AND SERVICE	CFM	FILTERS: No. OF SECTION WIDE	FILTERS: No. OF SECTION HIGH	FILTERS: TOTAL	COOLING COILS (AEROFIN TYPE 'C' AS STANDARD): AIR SIDE: ENTERING TEMP °F: D.B.	ENTERING TEMP °F: W.B.	LEAVING TEMP °F: D.B.	LEAVING TEMP °F: W.B.	AIR SIDE: MAX. PRESS DROP INCHES H₂O	WATER SIDE: MAX. G.P.M.	WATER SIDE: ENTERING TEMP. °F	WATER SIDE: LEAVING TEMP. °F	WATER SIDE: MAX. PRESS DROP FEET H₂O	WATER SIDE: MAX. WORKING PRESSURE	NUMBER OF SECTIONS	TUBE FACE DIMENSION	NOMINAL TUBE LENGTH FEET	FACE AREA SQ. FT.	TOTAL FACE AREA SQ. FT.	FACE VELOCITY F.P.M.	NUMBER OF ROWS DEEP	CIRCUITING	SERIES	FANS: STATIC PRESS INCHES OF H₂O	MAX. OUTLET VELOCITY F.P.M.	FAN R.P.M.	TOTAL PRESSURE	CLASS	ARRANGEMENT	FAN ROTATION	WIDTH & INLET	WHEEL DIAMETER IN INCHES	MODEL Nº	BHP	MOTOR: MIN. H.P.	MOTOR: R.P.M.	MOTOR: LOCATION	MANUFACTURER (AS STD.)	VIBRATION ISOLATORS: ISOLATION MINIMUM STATIC DEFLECTION IN INCHES	VIBRATION ISOLATORS: ISOLATION SPEC. TYPE	FAN TYPE	REMARKS
ACS-BW & BE	2	LEVEL 1 BASEMENT WEST & EAST CORES	18,300	3	3	9	86.5	67	57	56.5	.52	111	44	55.6	6.1	20½	2	24	6'0"	16.46	32.9	511	6	F	76	4½	2250	1770	4.3	—	4	—	—	36	36-26 1770	16.0	20	1770	—	JOY					CONTROLABLE PITCH SERIES 2000 (AUTO)
ACS-1W & 1E	2	LEVEL 2 - GROUND FLOOR WEST & EAST CORES	27,000	4	4	16	81.1	65.0	57	54.9	.44	103	44	53.6	6.4		2	30	8'0"	27.5	65.9	490	6	F	76	4½	3460		5.0	—		—	—	38	38-26-1770	28.0	40		—	JOY					
ACS-2W THRU 6W	5	LEVELS 3 THRU 7 TYPICAL FLOOR WEST CORE	25,500	4	4	16	81.1	65.0	57	54.9	.51	105	44	53.6	6.4		2	27	8'0"	24.75	49.5	515	6	F	76	4½	3300		5.1	—		—	—	38	38-26-1770	26.0	30		—	JOY					
ACS-2E THRU 6E	5	LEVELS 3 THRU 7 TYPICAL FLOOR EAST CORE	25,500	4	4	16	81.1	65.0	57	54.9	.51	105	44	53.6	6.4		2	27	8'0"	24.75	49.5	515	6	F	76	4½	3300		5.1	—		—	—	38	38-26 1770	26.0	30		—	JOY					
ACS-7W & 7E	2	LEVEL 8 - 7 FLOOR WEST & EAST CORES	29,500	4	4	16	81.1	65.0	57	54.9	.44	112	44	59.5	4.0		2	24	8'0"	[illegible]	60.9	487	6	F	76	4½	3160		5.4	—		—	—	38	38 - 1770	30.0	40		—	JOY					
ACS - CAFE-1	1	CAPE PENTHOUSE	44,500	6	4	24	84.8	66.4	65	63.9	.70	215	44	69.4	5.2		4	27	7'0"	21.6	86.4	514	6	F	84	4½	3800		6.2	—		—	—	45	45 - 1770	45.0	60		—	JOY					
SF-1	1	STAIR PRESSURIZATION WEST CORE	10,000																							2	2958			—		—	—	27	27 - 17 - 1770	5.4	7½		—	JOY					CONTROLABLE PITCH SERIES - 1000 MAN
SP-2	1	STAIR PRESSURIZATION EAST CORE	10,000																							2	2830			—		—	—	27	27 - 17 - 1770	5.4	7½		—	JOY					
SP-3	1	STAIR PRESSURIZATION SEWER CORE	10,000																							2.5	3540			—		—	—	27	27 - 17 - 1770	5.4	7½		—	JOY		IV			
V-1	1	VESTIBULE VENTILATION STAIR #1	3,000																							1¼	3870	1330		—		—	—	20	REX - 20B	1.76	3	1750	—	PENN VENT				TUB. CENT.	PROVIDE INLET VANE (MANUAL)
V-2	1	VESTIBULE VENTILATION STAIR # 2	3,000																							1¼	3800	1320		—		—	—	20	REX - 20B	1.76	3		—						
V-3	1	VESTIBULE VENTILATION STAIR # 3	3,000																							1¼	3800	1320		—		—	—	20	REX - 20B	1.76	3		—						

NOTES:
1. VANEAXIL FAN MANUFACTURERS Joy, BUFFALO OR AS APPROVED. MODEL NOS. SHOWN ARE JOY.

RETURN TRANSFER AND EXHAUST FANS

FAN Nº	QUANTITY	LOCATION AND SERVICE	FAN: CFM	FAN: STATIC PRESS INCHES OF H₂O	FAN: MAX OUTLET VELOCITY FPM	FAN: R.P.M.	FAN: TOTAL PRESSURE	FAN: ARRANGEMENT	FAN: CLASS	FAN: FAN ROTATION	FAN: WHEEL DIAMETER IN INCHES	FAN: WIDTH & INLET	FAN: ACCESS DOOR POSITION O'CLOCK	FAN: MODEL No.	FAN: BHP	MOTOR: MIN HP	MOTOR: R.P.M	MOTOR: LOCATION	MANUFACTURER (AS STD.)	FAN TYPE	VIBRATION ISOLATORS: ISOLATION MINIMUM STATIC DEFLECTION IN INCHES	VIBRATION ISOLATORS: ISOLATION SPECIFICATION TYPE	REMARKS
R/S-BW & BE	2	LEVEL 1 BASEMENT EAST & WEST CORES	11,000	1½"	2400	1770	1.70	4	--		32	—	—	29-17-1770	4.9	7½	1770	—	JOY	MANUAL		IV	CONTROLABLE PITCH SERIES 1000 (AUTO)
R/S-1E & 1W	2	LEVEL 2 GROUND FLOOR EAST & WEST CORES	24,000	1½"	2450		1.88	4	—	—	42	—	—	42-17-1170	8.8	10	1170	—					
R/S - 2W TO 6W	5	LEVELS 3 THRU 7 TYPICAL FL. WEST CORE.	22,500	1½"	2370		1.81	4	—	—	42	—	—	42-17-1170	8.3	10	1170	—					
R/S - 2E TO 6E	5	LEVELS 3 THRU 7 TYPICAL FL. EAST CORE	22,500	1½"	2370		1.81	4	—	—	42	—	—	42-17-1170	8.3	10	1170	—					
R/S - 7W & 7E	2	LEVEL 8 - 7TH FLOOR EAST & WEST CORES	26,500	1½"	2750		1.95	4	—	—	42	—	—	42-17-1170	9.5	15	1170	—					
R/S - CAFE-1	1	CAFETERIA PENTHOUSE	29,500	1½"	3000	1170	1.90	4	—	—	42	—	—	42-17-1170	11.2	15	1170	—				III	
VE-1	1	VESTIBULE VENTILATION STAIR 1 THRU 7TH FLOOR	5,000	1¼"	830	1050	—	—	1	—	24	—	—	REX-22B	2.8	5.0	1750	SIDE	PENN VENT	TUB. CENT.		IV	MANUAL INLET VANE
VE-2	1	VESTIBULE VENTILATION STAIR # 2 7TH FLOOR	5,000	1¼"	830	1050	—	—	1	—	24	—	—	REX 22B	2.8	5.0	1750	"					
VE-3	1	VESTIBULE VENTILATION STAIR # 3 7TH FLOOR	5,000	1½"	830	1090	—	—	1	—	24	—	—	REX 22B	3.4	5.0	1750	"					
DX-1	1	DISHWASHER EXHAUST	2,500	1½"	600	1260	—	—	1	—	27½	—	—	REX-20B	1.34	2	1750	SOT					
TX-1	1	PENTHOUSE WEST TOILET EXHAUST	7,500	1"	1,670	890	—	BVS	1	CW	27	SWSI	—	540 G	1.97	3	1750	—	BUFFALO	BVS	1"	I	
TX-2	1	PENTHOUSE EAST TOILET EXHAUST	11,500	1"	1600	700	—	BVS	1	CW	33	SWSI	—	600 J	2.73	5	1760	—	BUFFALO	BVS	1½"	I	
TX-3	1	TO THRU CENTER CORE TOILET EXHAUST	1,850	1"	642	1850	—	—	1	—	16½	—	—	REX-14B	0.88	1	1750	SIDE	PENN VENT	TUB. CENT.	1"	IV	
TF-C-1	1	KITCHEN HOOD AUX. AIR	5520	.75	915	1001	—	—	1	—	24½	—	—	REX-22B	2.45	3	1750						
ELMER-2	1	ROOF PENTHOUSE ELEV. MER EXH WEST CORE	10,000	3½"	1235	785	—	—	1	—	36½	—	—	REX - 33B	7.93	10	1750						
ELMER-3	1	ROOF PENTHOUSE ELEV. MER EXH EAST CORE	10,000	3½"	1235	785	—	—	1	—	36½	—	—	REX 33B	7.93	10	1750						
MER-2	1	ROOF PENTHOUSE EAST CORE DIESEL GEN. VENT.	2,000	½"	1165	1210	—	—	1	—	16	—	—	REX-14B	0.56	¾	1750						
MER-3	1	ROOF PENTHOUSE EAST CORE TANK ROOM VENT.	1,000	½"	415	1050	—	—	1	—	14	—	—	REX-14V	0.36	⅓	1050						
MER-4	1	ROOF PENTHOUSE WEST CORE TANK ROOF VENT.	1,200	½"	415	1050	—	—	1	—	14	—	—	REX - 14V	0.36	⅓	1050						
MER-5	1	BSMT. REFRIGERATION PLANT EXHAUST	13000 5000	2"	2900	1770	2.4	4	—	—	29	—	—	29-17-1770	6.5	7½	1770	—	JOY	VANEAXIAL			CONTROLABLE PITCH SERIES 1,000 (AUTO)
MER-6	1	CAFETERIA MER EXHAUST	3,000	½"	714	960	—	—	1	—	20	—	—	REX - 20B	0.67	¾	1750	SIDE	PENN VENT	TUB. CENT.			
TX-4	1	CAFETERIA TOILET EXHAUST	1,850	½"	642	1725	—	—	1	—	16½	—	—	REX - 14B	0.49	¾	1750						
KX-1	1	CAFETERIA KITCHEN EXHAUST	5880	4"	1400	1147	—	1	1	CW	27	SWSI	—	BLA - 540	5.44	10	1760	—	BUFFALO	BLA		I	
T.D.X-1	1	TRUCK DOCK EXHAUST	2,850	1"	607	1160	—	—	1	—	20	—	—	REX - 20B	0.96	1½	1750	SIDE	PENN CENT	TUB. CENT.		IV	
T.F-C-2	1	KITCHEN TRANS.	6400	.75	715	796	—	—	1	—	30½	—	—	REX - 27B	1.88	2½	1750	SIDE	"	TUB CENT			
KX-2	1	SEVERY EXHAUST HOOD	6900	4"	1445	1180	—	1	1	CCW	27	SWSI	—	BLA - 540	5.94	10	1750	—	BUFFALO	BLA		I	
TF-TD-1	1	COND. ROOM EXHAUST	800	.125	221	1140	—	—	1	—	—	SWSI	—	REX - 08T	.02	½	1750	SIDE	PENN CENT	TUB. CENT.	1"	IV	
TF-C-3	1	SEVERY HOOD AUX. AIR	5350	.75	595	658	—	—	1	—	30½	SWSI	—	REX - 27B	1.43	2	1750	SIDE	PENN CENT	TUB. CENT.	1"	IV	
TF-C-4	1	DISHWASHER TRANSFER.	1000	.50	347	998	—	—	1	—	16½	SWSI	—	REX - 14B	.22	½	1750	SIDE	PENN CENT.	TUB. CENT.	1"	IV	

NOTE: 1. VANEAXIAL FAN MANUFACTURERS JOY, BUFFALO OK APPROVED
2. MODEL NOS. SCHEDULED ARE FOR JOY.

MAIN CHILLED WATER PLANT

(CENTRIFUGAL REFRIGERATION UNITS) (CARRIER AS STANDARD)

Nº	LOCATION	COMPRESSOR: TONS	COMPRESSOR: MAX BHP	REFRIGERANT	CHILLER: WATER G.P.M.	CHILLER: INLET WATER TEMP °F	CHILLER: OUTLET WATER TEMP °F	CHILLER: WATER PRESS DROP FT WATER	CHILLER: FOULING FACTOR	CHILLER: MAX WATER VELOCITY FT/SEC	CHILLER: WORKING PRESSURE PSIG	REFRIGERANT CONDENSER: WATER GPM	REFRIGERANT CONDENSER: INLET TEMP °F.	REFRIGERANT CONDENSER: OUTLET TEMP °F	REFRIGERANT CONDENSER: MAX WATER DROP FT WATER	REFRIGERANT CONDENSER: FOULING FACTOR	REFRIGERANT CONDENSER: MAX WATER VELOC FT/SEC	REFRIGERANT CONDENSER: WORKING PRESS PSIG	UNIT: MODEL NO.	MOTOR: MAX INPUT KW	MOTOR: VOLTAGE	REMARKS
R-1	BASEMENT REF PLANT	850	—	12	1099	56.0	44.0	16.1	.0004	6.7	150	1650	85.0	94.6	17.3	.0005	9.8	150	EB 7731 DD	387.75	4160	

COOLING TOWER

(MARLEY AS STANDARD)

COOLING TOWER Nº	LOCATION	NUMBER OF CELLS	GPM PER CELL	INLET WATER TEMP °F	OUTLET WATER TEMP °F	AIR WET BULB °F	MIN. MOTOR H.P. PER CELL	TYPE AND SIZE	MAX. WIDTH	MAX. LENGTH	MAX. OVERALL HEIGHT	MAX. OPERATING WEIGHT LBS W/O H₂O
1	WEST CORE ROOF	2	2100	95	85	74	40	INDUCED DRAFT 2-8816	22'0"	22'0"	13'0"	45,700

NOTE: PROVIDE TWO SPEED MOTORS FOR TOWERS.

Norwalk
Building 43
Norwalk, California

Skidmore, Owings & Merrill
Architects/Engineers
One Maritime Plaza
San Francisco, California

Jaros, Baum & Bolles
Consulting Engineers
345 Park Avenue
New York, New York

Approved for the Owner by

Approved for the Architect by

Drawn by | Job Number

Checked by | Date

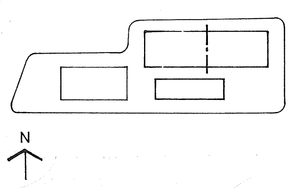
Revisions

No.	Revisions Indicated thus △	Date
	ISSUED FOR BID	12/15/81
1	ADDENDUM #5	2/10/82
2		
3	ADDENDUM #6 REVISED AS CIRCLED	6/11/82
4	ADDENDUM #66 ISSUED FOR BUILDING PERMIT	8/5/82
5	ADDENDUM #91	11/23/82
6	ADDENDUM #108	3/6/83

BECHTEL JOB NO. 648-0080

ME 12658

KEY PLAN



SCHEDULE SHEET NO.1

SCALE: NONE

HVAC-18

215-84