



THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE AND SHALL BE USED ONLY FOR THE PROJECT REFERENCE BELOW

ROOF VENT SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	ESP (IN. W.G.)	THROAT VELOCITY (FPM)	THROAT AREA (SQ. FT.)	NOTES
RV1	COOK	12x36GI	1600	0.026	533	3	1,2

ABBREVIATIONS:
ESP - EXTERNAL STATIC PRESSURE FPM - FEET PER MINUTE

NOTES:
1. MOTORIZED BACKDRAFT DAMPER
2. SLOPED ROOF CURB

GRILLES, REGISTERS & DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	APPLICATION	FINISH	FRAME TYPE	VOLUME DAMPER	MAX NC (DB)	MINIMUM THROW (FT)	MAX THROW (FT)	MAX PRESS DROP (IN.W.G.)	NOTES
A	TITUS	TDCA 24x24	SUPPLY	WHITE	GRID	Y	30	12	26	0.1	1-3
B	TITUS	300RL	SUPPLY	WHITE	GRID	Y	30	12	26	0.1	1-3
C	TITUS	PAR 24x24	RETURN	WHITE	GRID	N	30	--	--	0.08	---
D	TITUS	PAR 12x12	EXHAUST	WHITE	GRID	N	30	--	--	0.08	---

GENERAL NOTES:
1. MINIMUM THROWS ARE BASED ON 50 FEET PER MINUTE VELOCITY.
2. MAXIMUM THROWS ARE BASED ON 150 FEET PER MINUTE VELOCITY.
3. OPPOSED BLADE DAMPERS SHALL BE PROVIDED ON ALL DIFFUSERS REQUIRING VOLUME DAMPERS.

FAN COIL UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	FAN			COOLING				HEATING				ELECTRICAL DATA			NOTES
			CFM	MOTOR HP	ESP (IN. W.G.)	CAP. (MBH)	FLOW (GPM)	EWT (°F)	WPD (FT)	CAP. (MBH)	FLOW (GPM)	EWT (°F)	WPD (FT)	VOLTS/ PHASE	MCA (AMPS)	MOCp (AMPS)	
FCU1	TRANE	FCCB020	245	0.13	0.3	3.64	0.5	40	1.76	8.61	0.5	180	0.65	115/1	2.75	15	1-5
FCU2	TRANE	FCCB020	245	0.13	0.3	3.64	0.5	40	1.76	8.61	0.5	180	0.65	115/1	2.75	15	1-5

ABBREVIATIONS:
ACC - ACCESSORIES LWT - LEAVING WATER TEMPERATURE
CB - CIRCUIT BREAKER(S) MCA - MINIMUM CIRCUIT AMPACITY
CAP. - CAPACITY MOCp - MAIN OVER-CURRENT PROTECTION
ESP - EXTERNAL STATIC PRESSURE WPD - WATER PRESSURE DROP
EWT - ENTERING WATER TEMPERATURE

NOTES:
1. PROGRAMMABLE AUTO-CHANGEOVER THERMOSTAT
2. 2-ROW COOLING, 1-ROW HEATING
3. DISCONNECT MEANS
4. FILTER RACK
5. 3-WAY CONTROL VALVE AND PIPING CONTROL PACKAGE TO MATCH EXISTING.

AIR HANDLER

MARK	MANUFACTURER	MODEL	OUTDOOR AIR (CFM)	FAN			ELECTRICAL DATA			GAS HEATING			COOLING			MARK	MANUFACTURER	MODEL	EER	AMB. TEMP (°F)	ELECTRICAL DATA			NOTES
				CFM	MOTOR HP	ESP (IN. W.G.)	VOLTS/ PHASE	MCA1 AMPS	MOCp1 AMPS	LOAD (MBH)	OUTPUT (MBH)	EFF. (%)	EAT (DB/WB) (°F)	SHC (MBH)	THC (MBH)						VOLTS/ PHASE	MCA (AMPS)	MOCp (AMPS)	
AHU1	AXON	H3-CRB-8	1600	1600	2.3	1	208/3	9	15	208.2	187.4	90	95/74	65.3	106.13	HP1	AXON	CFA-011-8	11.0	-10	208/3	42	50	1-8

ABBREVIATIONS:
AMB - AMBIENT
EAT - ENTERING AIR TEMPERATURE
EFF - EFFICIENCY
ESP - EXTERNAL STATIC PRESSURE
MCA - MINIMUM CIRCUIT AMPACITY
MOCp - MAIN OVER-CURRENT PROTECTION
SHC - SENSIBLE HEAT CAPACITY
THC - TOTAL HEAT CAPACITY

NOTES:
1. EVAP COIL
2. MODULATING GAS HEAT WITH STAINLESS STEEL HEAT EXCHANGER
3. MODULATING HOT GAS REHEAT
4. DISCONNECT MEANS
5. DRAIN PAN WITH FLOAT SWITCH TO SHUT-DOWN UNIT IF OVERFLOW CONDITION.
6. DOUBLE WALL CONSTRUCTION
7. SUPPLY DUCT HUMIDITY AND TEMPERATURE SENSOR
8. MERV-8 PREFILTER AND MERV-13 FOR SECONDARY FILTER

*UNIT SHALL RUN DURING OCCUPIED HOURS AND PROVIDE NEUTRAL AIR DISCHARGE OF 73 DEG. +/- 3 DEG. F. PROVIDE DEHUMIDIFICATION SEQUENCE SUCH THAT UNIT AIR DOES NOT EXCEED 55% RELATIVE HUMIDITY.

AIR HANDLER

MARK	MANUFACTURER	MODEL	OUTDOOR AIR (CFM)	FAN			ELECTRICAL DATA			GAS HEATING			COOLING			MARK	MANUFACTURER	MODEL	MIN. EER	AMB. TEMP (°F)	ELECTRICAL DATA			NOTES
				CFM	MOTOR HP	ESP (IN. W.G.)	VOLTS/ PHASE	MCA1 AMPS	MOCp1 AMPS	LOAD (MBH)	OUTPUT (MBH)	EFF. (%)	EAT (DB/WB) (°F)	SHC (MBH)	THC (MBH)						VOLTS/ PHASE	MCA (AMPS)	MOCp (AMPS)	
FC1	MITSUBISHI	PKA-A12	--	425	(30)	--	208/1	1	15	--	--	--	73/61	9.1	9.9	CU1	MITSUBISHI	PUY-A12	10.1	105	208/1	13	15	1-2
FC2	MITSUBISHI	PKA-A12	--	425	(30)	--	208/1	1	15	--	--	--	73/61	9.1	9.9	CU2	MITSUBISHI	PUY-A12	10.1	105	208/1	13	15	1-2
FC3	MITSUBISHI	PKA-A12	--	425	(30)	--	208/1	1	15	--	--	--	73/61	9.1	9.9	CU3	MITSUBISHI	PUY-A12	10.1	105	208/1	13	15	1-2

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NOTES:
1. WIND BAFFLE FOR LOW AMBIENT CONTROL - 0 DEG. F
2. SIMPLE WIRED CONTROLLER EQUAL TO PAC-YT53CRAU

PIPING MATERIAL SCHEDULE

SYSTEM	PIPING						FITTINGS		MAX WORKING		FIELD TEST	
	SIZE	TYPE	SCH	GRD	ASTM	MAT.	MAT.	TYPE	PRESS (PSI)	TEMP (°F)	PRESS (PSI)	TIME
DOMESTIC WATER ABOVE GRADE	ALL	L	--	--	B88	CP	CP	SJ	120	40-180	150	1 HR
DOMESTIC WATER ABOVE GRADE (BRANCH)	0.5"-2"	PEX	SDRS	--	F876	PEX	BRASS	CF	100	40-180	150	1 HR
WASTE & VENT IN CRAWL SPACE	ALL	DWV	40	--	2665	PVC	PVC	DRSW	10 FT	50-180	10 FT	1 HR
WASTE & VENT ABOVE GRADE	ALL	NH	SS	--	A74	CI	CI	DRNH	10 FT	50-180	10 FT	1 HR
REFRIGERANT PIPING	ALL	ACR	--	--	B280	CP	CP	S	150	40-140	200	4 HR
CHILLED WATER SUPPLY & RETURN	0.5" - 3"	L	--	--	B88	CP	CP	SJ	125	45-80	150	1 HR
HOT WATER SUPPLY & RETURN	0.5" - 3"	L	--	--	B88	CP	CP	SJ	125	80-200	150	1 HR
CONDENSATE DRAIN ABOVE GRADE	ALL	M	--	--	B88	CP	CP	DRS	10 FT	40-70	10 FT	1 HR
NATURAL GAS ABOVE GRADE	0.5" - 2.5"	CW	40	A	A53	CSBLK	MI	THRD	1	--	100	1 HR

ABBREVIATIONS:
ATP - ARMCO TRUSS PIPE
BLK - BLACK
BS - BELL & SPIGOT
CF - CRIMPED FITTING
CI - CAST IRON
CP - COPPER
CS - CARBON STEEL
CTD - PIPE LINE SERVICE COMPANY X-TRU-COAT
HIGH DENSITY POLYETHYLENE COATING
EXTRUDED OVER PIPE
CW - CONTINUOUS WELD
DI - DUCTILE IRON
DR - DRAINAGE FITTING
ERW - ELECTRIC RESISTANT WELD
GLV - GALVANIZED
HF - HEAT FUSED
LC - LEAD CAULKING
MI - MALLEABLE IRON

MJ - MECHANICAL JOINT
NG - NEOPRENE GASKET
NH - NO-HUB
PE - POLYETHYLENE
PVC - POLYVINYL CHLORIDE
PVDF - POLYVINYLIDENE FLUORIDE
S - BRAZED JOINT - SILVER BRAZING ALLOY
SF - SOCKET FUSION
SJ - SOLDER JOINT 95-5 TIN-ANTIMONY
SL - SEAMLESS STEEL
SS - STANDARD STRENGTH - SERVICE WEIGHT
SW - SOLVENT WELD
TS - TY-SEAL
THRD - THREADED
VCP - VITRIFIED CLAY PIPE
WELD - WELDED
XH - EXTRA HEAVY

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS	NOTES
1	ADA WALL MOUNT, FLUSH VALVE, BACK OUTLET, WATER CLOSET	AMERICAN STANDARD	AFWALL - 2257.001	FLUSH VALVE: FV SLOAN #8110, WATER CLOSET CARRIER, OLSONITE 95SSCT OPEN FRONT WHITE SEAT LESS COVER	1.25" 0" 4" 2"	REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL MOUNTING HEIGHT. COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED. INSTALL TRIP LEVER OPPOSITE SIDE WALL GRAB BAR.
2	WALL MOUNT, FLUSH VALVE, BACK OUTLET, WATER CLOSET	AMERICAN STANDARD	AFWALL - 2257.001	FLUSH VALVE: FV SLOAN #8110, WATER CLOSET CARRIER, OLSONITE 95SSCT OPEN FRONT WHITE SEAT LESS COVER	1.25" 0" 4" 2"	REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL MOUNTING HEIGHT. COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED.
3	OVAL COUNTERTOP LAVATORY	AMERICAN STANDARD	AQUALYN - 0476.028	FAUCET: AMERICAN STANDARD #7385.003 GRID DRAIN LESS STOPPER	0.5" 0.5" 2" 1.5"	FAUCET HOLES TO MATCH FAUCET SPECIFIED. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.
4	20 X 18 WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE - 0355.012	FAUCET: AMERICAN STANDARD #5502.175, VANDAL RESISTANT, GRID STRAINER DRAIN	0.5" 0.5" 2" 1.5"	FAUCET HOLES TO MATCH FAUCET SPECIFIED. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.
5	SINGLE BOWL, 18 GAUGE, SELF RIM SINK	ELKAY	LUSTERSTONE - LRAD1316	FAUCET: DELTA #27C1932, VANDAL RESISTANT, GRID STRAINER DRAIN, 9" SWIVEL SPOUT, HOODED BLADES	0.5" 0.5" 2" 1.5"	FAUCET HOLES TO MATCH FAUCET SPECIFIED. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.
6	WALL HYDRANT WITH LOCKABLE COVER	ZURN	2-1327-EZ	HANDLE OPERATED CONTROL VALVE, MALE HOSE CONNECTION	0.75" 0.75" 0" 0"	STAINLESS STEEL BOX AND REMOVABLE HINGED COVER WITH CYLINDER LOCK.
7	DRAIN BOX	GUY GRAY	SSDB1	STAINLESS STEEL DRAIN OUTLET BOX	0" 0" 2" 1.5"	PROVIDE ACCUDOR UF-5000 (OR EQUAL) 12x12 REMOVABLE HINGED COVER WITH CYLINDER LOCK
FD	4" ROUND FLOOR DRAIN	J.R. SMITH	2010-A	NICKEL BRONZE STRAINER, DEEP SEAL TRAP, SURE SEAL WATERLESS TRAP PRIMER	0" 0" 2" 0"	DRAIN SIZE SHALL MATCH SANITARY BRANCH SERVING DRAIN. REFERENCE PLANS FOR SIZE.
FFCO	FINISHED FLOOR CLEANOUT	J.R. SMITH	4023	HARD FLOOR: ROUND CHROME NICKEL SCORATED COVER, CARPET AREAS: NICKEL BRONZE TOP AND CARPET CLAMP OR CARPET MARKER.	0" 0" 2" 0"	VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS. CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.
FWCO	WALL CLEANOUT	J.R. SMITH	4532 WITH CLEANOUT PLUG OR 4512 WITH COUNTERSUNK PLUG	PROVIDE CLEANOUT PLUG AND STAINLESS STEEL ACCESS COVER IN FINISHED AREAS. PROVIDE COUNTER SUNK PLUG IN UNFINISHED AREAS.	0" 0" 4" 0"	CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.