														PACKA	GED DX R	OOFTOP A	IR HAND	DLING UN	NIT SCHE	DULE										
			REFRIGERANT		SU	JPPLY FAN			ι	INIT COOL	ING COIL	•				UNIT HEATIN	NG (GAS)						ELECTRI	CAL						
TAG	LOCATION	OPERATING WEIGHT (LBS)	TYPE	С	FM	EXT STATIC PRESS. (IN.WG)	MOTOR (BHP)	CAF	PACITY (MI	ВН)	EAT	F°)	LAT (°F)	CAPAC	ITY (MBH)	PRESSURE (IN. WG)	STAGES	EAT (°F)	LAT (°F)		TOTAL UNIT		СОМР	RESSOR	INDOOR FAN	CONDENSER FAN	COOLING EFF.	HEATING THERMAL EFF. (%)	MANUFACTURER AND MODEL NUMBER (AS STANDARD)	REMARKS
				TOTAL	MIN. O.A.	(114.749)		TONS	TOTAL	SENS.	DB	WB D	B WB	INPUT	OUTPUT	MIN/MAX		DB	DB	V PH	HZ MCA	MOCP	RLA	LRA	FLA	FLA				
RTU-1	ROOF	513	R-410A	1120	120	1.2	0.75	3	29.2	23.5	80	65 6	57	67/110	54/88	4/13	2	65	109	480 3	60 12	15	5.7	73	2.4	2.4	16.0 SEER	81	CARRIER 48GCDM04	SEE NOTES
NOTES:																														

NOTES:

1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.

2. PROVIDE MANUFACTURER'S 7-DAY PROGRAMMABLE THERMOSTAT.
3. PROVIDE WITH ENTHALPY ECONOMIZER, THREE SETS OF FILTERS, CONVENIENCE OUTLET, AND INSULATED CABINET.

4. PROVIDE ALL RTUS WITH RAWAL APR CONTROL DEVICE.

															SI	PLIT S	YSTEM	I AIR C	ONDITIO	NING UNIT S	CHEDULE													
							IND	OOR AIR C	ONDITIO	NING UI	NITS									REFRIGERA	TI				OUTDOOR CONDENSI	NG UNIT								
								UN	IIT COOL	ING			UNIT HE	ATING	i													ELEC	CTRIC DATA	A (OUT	DOOR UNIT	·)	1	
TAG	LOCATION	MANUFACTURER AND MODEL NUMBER	CF	=М	MOTOR			PACITY	EAT	(°F)	LAT(°F	F) CAPA	ACITY		LAT (°F)		ELECT	RIC DAT	TA	TYPE	TAG	LOCATION		MINIMUM AMBIENT	MANUFACTURER AND MODEL NUMBER (AS STANDARD)		TOT	AL UN	ΙΙΤ	CON	IPRESSOR	CONDENSER FAN	EFFICIENCY (SEER)	REMARKS
		(AS STANDARD)	TOTAL	O.A.	(HP)	(IN. WG.)	TOTAL	SENSIBLE	E DB	WB	DB \	WB kv	w	DB	DB	V F	H HZ	MCA	МОСР				TEMP (°F)	TEMP (°F)	,	V	PH H	z MC	CA MOCP	RLA	A LRA	FLA		
ACU-1	ABOVE CEILING	CARRIER 40MBDQ12	310	90	.18	0.5	18	-	75	62	58	53 2	2	68	88	208	1 60	.2	-	R-410A	ACCU-1	ROOF	110	32	CARRIER 38MAQB12R	208	1 60	0 1	5 20	5.7	-	-	21.5	SEE NOTES
ACU-2	ABOVE CEILING	CARRIER 40MBDQ18	400	135	.27	0.5	14.7	-	75	62	58	53 2.	.5	68	88	208	1 60	.2	-	R-410A	ACCU-2	ROOF	110	32	CARRIER 38MAQB18R	208	1 60	0 1:	3 20	7.3	-	-	18.5	SEE NOTES
ACU-3	ABOVE CEILING	CARRIER FV4C	630	60	1/3	0.5	18	11.6	75	62	58	53 4	4	68	88	208	1 60	5.4	15	R-410A	ACCU-3	ROOF	110	32	CARRIER 25HHA424	208	1 60	0 16	.5 25	12.8	58.3	0.5	14	SEE NOTES
ACU-4	ABOVE CEILING	CARRIER FV4C	450	45	1/3	0.5	18	11.6	75	62	58	53 2.	.5	68	88	208	1 60	5.4	15	R-410A	ACCU-4	ROOF	110	32	CARRIER 25HHA418	208	1 60	0 11	.8 20	9.0	48.0	0.5	14	SEE NOTES
ACU-5	ABOVE CEILING	CARRIER FV4C	360	60	1/3	0.5	18	11.6	75	62	58	53 2.	.5	68	88	208	1 60	5.4	15	R-410A	ACCU-5	ROOF	110	32	CARRIER 25HHA418	208	1 60	0 11	.8 20	9.0	48.0	0.5	14	SEE NOTES
ACU-6	ABOVE CEILING	CARRIER FV4C	480	65	1/3	0.5	18	11.6	75	62	58	53 3	3	68	88	208	1 60	5.4	15	R-410A	ACCU-6	ROOF	110	32	CARRIER 25HHA424	208	1 60	0 16	.5 25	12.8	58.3	0.5	14	SEE NOTES
ACU-7	ABOVE CEILING	CARRIER FV4C	425	60	1/3	0.5	18	11.6	75	62	58	53 2.	.5	68	88	208	1 60	5.4	15	R-410A	ACCU-7	ROOF	110	32	CARRIER 25HHA418	208	1 60	0 11	.8 20	9.0	48.0	0.5	14	SEE NOTES

NOTES

1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.

2. INDOOR UNIT - PROVIDE WITH 3 SETS OF FILTERS, VIBRATION ISOLATION PER SPECIFICATIONS, AND 7-DAY PROGRAMMABLE THERMOSTAT.
3. DISCONNECTS PROVIDED BY ELECTRICAL CONTRACTOR.

	1	DUCTWORK PRESSURE CLA	ASS AND SEAL CLASS		
PRESSURE CLASS	STATIC PRESSURE CLASS	SMACNA SEAL CLASS	SMACNA LEA	KAGE CLASS	DESIGN VELOCITY LIMITS
PRESSURE CLASS	STATIC PRESSURE CLASS	SIVIACINA SEAL CLASS	RECTANGULAR	ROUND	DESIGN VELOCITY LIMITS
2"	2" POS. OR NEG.	Α	6	3	2000 FPM OR LESS
UNLESS OTHERWISE SPEC	IFIED OR SHOWN ON THE DRAWING	SS, USE THE FOLLOWING PRESS	URE CLASSIFICATIONS FOR	THE TYPES OF DUCTWORK	LISTED BELOW
2" CLASS:	ALL DUCTWORK.				
NOTES:					

## 1. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

MINIMUM DUCT INSULA	TION R-VALUES	6 (IECC - 2018 AN	ND ASHRAE 90.1-20	16 COMPLIANCE)	
				EXH	AUST
LOCATION	SUPPLY	RETURN	RAW OUTDOOR AIR	WITH ENERGY RECOVERY	WITHOUT ENERGY RECOVERY
OUTDOORS	R-12	R-12	-0-	R-12	-0-
UNCONDITIONED SPACE (SHAFT OR CEILING WITH DUCTED RETURN AIR)	R-6	R-6	R-6	R-6	-0-

DUCT LINING SCOPE: ACOUSTIC DUCT LINING OF THE TYPE AND THICKNESS SPECIFIED SHALL BE INSTALLED ON ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK WITHIN 20 FEET OF ALL TYPES OF AIR HANDLING UNITS (INCLUDING RTU, ERU, FCU, MUA, ETC., AND ALL BRANCHES WITHIN 20') ALL FANS (INCLUDING BRANCHES), ALL LOW PRESSURE DUCTWORK DOWNSTREAM OF ALL TYPES OF SUPPLY VOLUME BOXES (CV, VAV, FPVAV, ETC.), AND WHERE DETAILED OR SHOWN ON DRAWINGS.

NOTES: (SEE SPECIFICATIONS FOR R-VALUES OF VARIOUS DUCT INSULATION AND LINERS).

1. R-VALUES SHOWN MAY BE OBTAINED BY ADDING THE R-VALUES OF BOTH THE LINING (WHERE SHOWN OR USED) AND EXTERNAL DUCT INSULATION.
2. R-VALUES SHOWN ARE AS INSTALLED. USE R-VALUES FOR 25% COMPRESSION FOR NON-RIGID INSULATION.

3. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

	PIPE INSULATION	ON (2018 AN	ID ASHRAE 90	).1 - 2016 CO	MPLIANCE)		
	MINIMUM INSULATION THIC	CKNESS IN IN	CHES FOR INDO	OR PIPE SIZES	(SEE NOTES	BELOW)	
PIPING SYSTEM TYPES	FLUID TEMP. RANGE (°F)	< 1"	1" & 1¼"	1½" - 3"	4" - 6"	8" & UP	K-FACTOR (BTU-INCH/°F-HR-SF) AT AVE. TEMP. (°F)
REFRIGERANT OR COOLING COIL CONDENSATE DRAIN	≤ 60	0.5	1	1	1	1.5	0.20-0.27 @ 75°F
NOTES:							

NOTES:

1. FOR MINIMUM THICKNESS OF ALTERNATIVE INSULATION TYPES OUTSIDE THE STATED CONDUCTIVITY RANGE, SEE TEST METHOD FOR STEADY STATE HEAT TRANSFER PROPERTIES OF HORIZONTAL PIPE INSULATIONS, ASTM C 335-95, AND THE STATE ENERGY CODE.

2. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION

AILS FOR AE	DDITIONAL INF	FORMATION.															
														,			
									ELE	CTRIC H	IEATING CO	OIL SCHE	DULE				
TAG	SERVICE	LOCATION	CFM	TYPE	CAPA	CITY	AIR TE	MP (°F)	DUC.	T SIZE		NO. OF	ELE	CTRIC SE	RVICE	MANUFACTURER AND MODEL NUMBER	REMARKS
IAG	SERVICE	LOCATION	CFIM	ITPE	KW	BTUH	ENT	LVG	W (IN.)	H (IN.)	(FPM)	STEPS	<b>V</b>	PH	HZ	(AS STANDARD)	REWARKS
EHC-1	OA	DUCT	630	ОС	5	17.1	30	55	12	12	696	SCR	480	3	60	INDEECO QUZ	SEE NOTES
NOTES:																	

1. PROVIDE WITH THERMAL CUTOUTS, DOOR DISCONNECT SWITCH, AIRFLOW SWITCH, CONTROL TRANSFORMER, FUSES AND MANUFACTURERS SAFETIES.
2. ELECTRIC COIL SHALL BE FLANGED TYPE.

							ELECTRI	C CABI	NET UI	NIT HEA	TER S	CHEC	ULE			
					WEIGHT	INPUT	OUTPUT		AIR		El	LECTRIC	SERV	ICE	MANUFACTURER AND MODEL NUMBER	
	TAG	LOCATION	TYPE	MOUNTING	(LBS)	(kW)	(MBH)	CFM	EAT (°F)	LAT (°F)	>	PH	HZ	TOTAL AMPS	(AS STANDARD)	REMARKS
	ECUH-1	VESTIBULE	HORIZ	HUNG	120	3.0	10.2	250	60	98	480	3	60	3.6	QMARK CU935	SEE NOTES
ſ	NOTES:		_		_											

1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE WITH CONCEALED CABINET, CASING WITH FRONT & BACK DUCT COLLARS, AND REMOTE DUCT MOUNTED TWO STAGE T-STAT.

3. UNIT MOUNTED DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR. 4. PROVIDE WITH TEMPERATURE SENSOR IN THE RETURN GRILLE.

					CONDE	NSATE I	PUMP S	CHEDU	LE			
			REC.	FLUID	DISCHARGE	PUMP		ELEC	TRICAL		MANUFACTURER AND MODEL NUMBER	
TAG	SERVICE	LOCATION	CAP. GAL.	TEMP. (°F)	PRESS (FT)	CAP. (GPM)	HP	٧	PH	AMPS	(AS STANDARD)	REMARKS
CP-1	ACU-1	PLENUM	1	55	12	4	1/10	120	1	3.1	HARTELL A2X-1965	SEE NOTES
NOTES:												

1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONDENSATE PUMP SHALL BE HARD WIRED AND PLENUM RATED

				ELECTRIC BASE	BOARD SCHEDU	LE			
					El	ECTRIC SERVICE		MANUFACTURER AND	
TAG	LENGTH	WATTS PER FOOT	TOTAL WATTS	OUTPUT (MBH)	AMPS	V	PH	MODEL NUMBER (AS STANDARD)	REMARKS
EBB-1	3'-0"	250	750	2.6	2.7	277	1	QMARK CPH05A3250	SEE NOTES
NOTES:									

1. REFER TO SPECIFICATIONS AND CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION
2. PROVIDE WITH INTEGRAL CONCEALED DISCONNECT PREWIRED TO THE UNIT. DISCONNECTING MEANS SHALL BE NEMA RATED AND SUITABLE FOR LOCKING IN THE OFF POSITION.

2. PROVIDE WITH INTEGRAL CONCEALED DISCONNECT PREWIR3. CONFIRM EQUIPMENT FINISH WITH THE ARCHITECT.4. PROVIDE WITH INTEGRAL THERMOSTAT AND PEDESTAL KIT.

						DU	CTLESS SPLIT	AIR-CON	DITIONING	3 UNIT S	CHEDULE										
		INDOOR U	JNIT									OUTD	OOR COND	ENSING UNIT							
TAG	LOCATION	MANUFACTURER AND MODEL		CAPACITY BTU)	HEATING CAPACITY (BTU)	FAN DATA (CFM)	REFRIGERANT TYPE	TAG	LOCATION	WEIGHT (LBS)	SOUND PRESSURE	DESIGN / TEMI	AMBIENT P (°F)	MANUFACTURER AND MODEL	E	LECTF	RICAL	DATA	EFFICII	ENCY	REMARKS
		NUMBER (AS STANDARD)	TOTAL	SENSIBLE	TOTAL	TOTAL				(LBS)	DB(A)	SUMMER	WINTER	NUMBER (AS STANDARD)	٧	PH	HZ	МОСР	SEER	HSPF	
ACU-LAN	LAN ROOM	MITSUBISHI PKA-A24KA	24,000	18,000	23,000	775	R410A	ACCU-LAN	ROOF	163	48	95	0	MITSUBISHI PUZ-A24NHA	208	1	60	30	21	11	SEE NOTES
ACU-ELE	ELE ROOM	MITSUBISHI PKA-A12HA	12,000	9,700	11,100	425	R410A	ACCU-ELE	ROOF	163	48	95	0	MITSUBISHI PUZ-A12NKA	208	3 1	60	15	20	10.2	SEE NOTES

REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.

2. DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
B. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.

NOTES:

4. INDOOR UNIT - PROVIDE WALL MOUNTED THERMOSTAT THERMOSTAT AND MANUFACTURERS INTEGRAL CONDENSATE PUMP. 5. REFRIGERANT PIPE SIZES AND REQUIRED ACCESSORIES SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

6. LOCATE AIR COOLED CONDENSING UNIT ON ROOF.

							FAN	SCHEDULI	E							
					E.S.P.	WHEEL		OUTLET			МОТО	R			MANUFACTURER AND MODEL NUMBER	
TAG	SERVICE	LOCATION	CFM	FAN TYPE	(IN.WG)	TYPE	DRIVE	VELOCITY (FPM)	RPM	ВНР	ΗP	٧	РН	FLA	(AS STANDARD)	REMARKS
F-1	PANTRY EXHAUST	ROOF	250	ROOF	.25	CENTRIFUGAL BI	DIRECT	357	1014	0.02	1/6	208	1	1.5	GREENHECK G-090-VG	SEE NOTES
F-2	TOILET/JAN EXHAUST	ROOF	375	ROOF	.75	CENTRIFUGAL BI	DIRECT	323	1642	0.12	1/6	208	1	2.6	GREENHECK G-095-VG	SEE NOTES
F-3	OUTDOOR AIR	ABOVE CEILING	515	INLINE	.75	CENTRIFUGAL FC	DIRECT	583	1406	0.25	1/3	208	1	2.4	GREENHECK CSP-A700-VG	SEE NOTES

NOTES.

1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.

2. PROVIDE WITH EC MOTOR, VIBRATION ISOLATION, 120V ACTUATED DAMPER WITH ENDSWITCH, WIRING PIGTAIL, HOOD HASPS, BIRDSCREEN, AND HINGED BASE.
3. UNIT MOUNTED DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.

	SELECTION						MANUFACTURER AND MODEL NUMBER		
TAG	RANGE (CFM)	NECK SIZE (IN.)	OVERALL SIZE (IN.)	SERVICE	MOUNTING	ACCESSORIES	(AS STANDARD)	MAX NC	REMARKS
SA	0-100	6Ø	24x24	SUPPLY	LAY-IN	-	TITUS OMNI	30	SEE NOTES
SB	105-210	8Ø	24x24	SUPPLY	LAY-IN	-	TITUS OMNI	30	SEE NOTES
SC	215-360	10Ø	24x24	SUPPLY	LAY-IN	-	TITUS OMNI	30	SEE NOTES
SD	0-100	6Ø	12x12	SUPPLY	SURFACE	-	TITUS OMNI	30	SEE NOTES
SE	0-210	8Ø	48" x (1) 1" SLOT	SUPPLY	LAY-IN	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
SF	215-230	10Ø	48" x (1) 1" SLOT	SUPPLY	LAY-IN	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
SG	235-260	12Ø	48" x (1) 1.5" SLOT	SUPPLY	LAY-IN	INS. PLENUM	TITUS FL15-HT	30	SEE NOTES
SH	0-210	8Ø	48" x (1) 1" SLOT	SUPPLY	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
SI	215-230	10Ø	48" x (1) 1" SLOT	SUPPLY	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
SJ	235-300	12Ø	48" x (1) 2" SLOT	SUPPLY	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
RA	0-100	8Ø	24x24	SUPPLY	LAY-IN	-	TITUS OMNI	30	SEE NOTES
RB	105-210	10Ø	24x24	SUPPLY	LAY-IN	-	TITUS OMNI	30	SEE NOTES
RC	215-400	12Ø	24x24	SUPPLY	LAY-IN	-	TITUS OMNI	30	SEE NOTES
RD	400-600	14Ø	24x24	SUPPLY	LAY-IN	-	TITUS OMNI	30	SEE NOTES
RE	0-210	10Ø	48" x (1) 1" SLOT	RETURN	LAY-IN	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
RF	0-210	10Ø	48" x (1) 1" SLOT	RETURN	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
RG	215-230	12Ø	48" x (1) 1" SLOT	RETURN	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
RH	235-300	14Ø	48" x (1) 2" SLOT	RETURN	BORDER 22	INS. PLENUM	TITUS FL10-HT	30	SEE NOTES
EA	0-100	6Ø	12x12	EXHAUST	SURFACE	-	TITUS OMNI	30	SEE NOTES
EB	0-210	8Ø	12x12	EXHAUST	SURFACE	-	TITUS OMNI	30	SEE NOTES
EC	0-250	10Ø	24x24	EXHAUST	LAY-IN	-	TITUS OMNI	30	SEE NOTES
ED	0-30	6x6	8x8	EXHAUST	SIDE WALL	_	TITUS 350 RL	30	SEE NOTES

Landlord Comments:

REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
 SEE PLANS FOR LOCATIONS AND QUANTITIES FOR EACH AIR DEVICE.
 SEE PLANS FOR BLOW PATTERNS FOR EACH AIR DEVICE.
 AIR DEVICE FINISHES SHALL BE WHITE.
 BORDER TYPES SHALL BE COMPATIBLE WITH THE REFLECTED CEILING PLANS.

Jacobs Architects / Engineers, Inc 2301 Chestnut Street Philadelphia, Pennsylvania 19103 P 215.569.2900 F 215.569.5963 W www.jacobs.com

Fidelity's Engineering Consultant:

70 Fargo Street, Suite 800
Boston, MA 02210-1964
P 617-345-9885
F 617-345-4226
W www.nv5.com
Seals:

General Notes:

Project Title:

Fidelity Real Estate Company
245 Summer Street
Boston, MA20110

Fidelity Investor Center 2142 Fashion Drive Nanuet, NY 10954

Number	Description	Date
	ISSUED FOR PERMIT & CONST.	23 JULY 20
14 DI		

n: North

Project No.: Y021006
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Drawing Sheet Title:

Drawing Sheet Number:

**HVAC SCHEDULES** 

M-800
Owner's Branch No.:

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