						ilation Ir										
Room	Room Name	Area	Occ	upancy Type	Code		Zone	Design SA		EA	Desig	ın OA	Code	e OA		
No.		(sq.ft.)	Category	Туре	Pers./1000	No. of	OA CFM /	OA CFM /	Distribution	CFM	CFM /	CFM	%	CFM	CFM	CFM /
					sq.ft.	Occ.	Pers.	sq.ft.	Effectivness		sq.ft.		w/o Div.			sq.ft.
101	Lobby	317	Public Spaces	Corridors	0	0	0	0.06	8.0	350	1.1		40%	140	24	0.08
111	Electrical Room	98	storage	warehouses	0	0	0	0.06	0.8	50	0.5		40%	20	7	0.08
112	Decon Room	102	offices	office space	5	1	5	0.06	8.0	50	0.5		40%	20	14	0.14
113	Gear Room	618	storage	warehouses	0	0	0	0.06	8.0	400	0.6		40%	160	46	0.08
119	Apparatus Bay	5,300	storage	Enclosed parking garage	0	0	0	0.75	1.0	4000	0.8	4,000.0	100%	4,000	3,975	0.75
120	Air Room	198	storage	warehouses	0	0	0	0.06	8.0	300	1.5		40%	120	15	0.08
122	Floor Cleaning	64	storage	warehouses	0	0	0	0.06	8.0	75	1.2		40%	30	5	0.08
123	Clean-Up	72	storage	warehouses	0	0	0	0.06	8.0	75	1.0		40%	30	5	0.08
126	Ems Storage	87	storage	warehouses	0	0	0	0.06	0.8	75	0.9		40%	30	7	0.08
127	Officer's Closet	87	storage	warehouses	0	0	0	0.06	8.0	75	0.9		40%	30	7	0.08
128	Firematic Storage	173	storage	warehouses	0	0	0	0.06	0.8	100	0.6		40%	40	13	0.08

						ilation I										
Room	Room Name	Area	Occ	ирапсу Туре			Code		Zone	Desig	n SA	EA	Desig	n OA	Code	e OA
No.		(sq.ft.)	Category	Туре	Pers./1000	No. of	OA CFM /	OA CFM /	Distribution	CFM	CFM /	CFM	%	CFM	CFM	CFM /
					sq.ft.	Occ.	Pers.	sq.ft.	Effectivness		sq.ft.		w/o Div.			sq.ft.
201	Upper Lobby	867	Public Spaces	Corridors	0	0	0	0.06	0.8	850	1.0		38%	323	65	0.08
203	Copy/Supply	278	Workrooms	Copy rooms	4	2	5	0.06	0.8	150	0.5		38%	57	33	0.12
206	District Records	99	storage	warehouses	0	0	0	0.06	8.0	50	0.5		38%	19	7	0.08
213	Officer's Closet	89	storage	warehouses	0	0	0	0.06	0.8	50	0.6		38%	19	7	0.08
214	Quarter Master	99	storage	warehouses	0	0	0	0.06	0.8	50	0.5		38%	19	7	0.08
216	Mechanical Room	274	storage	warehouses	0	0	0	0.06	0.8	150	0.5		38%	57	21	0.08
217	F.O.G.	98	storage	warehouses	0	0	0	0.06	0.8	25	0.3		38%	10	7	0.08
218	Unfinished Attic	2,667	storage	warehouses	0	0	10	0.06	0.8	1350	0.5		15%	203	200	0.08
219	Hall	497	Public Spaces	Corridors	0	0	0	0.06	0.8	300	0.6		15%	45	37	0.08
220	Unfinished Attic	2,549	storage	warehouses	0	0	0	0.06	0.8	1350	0.5		15%	203	191	0.08
222	Hall	168	Public Spaces	Corridors	0	0	0	0.06	0.8	100	0.6		38%	38	13	0.08

Room	Room Name	Area	Natural Ventilation			
No.		(sq.ft.)	Openable	%		
			Area	floor area		
205	District Office	333	45	13.5%		
204	Classroom	485	60	12.4%		
201	Upper Lobby	893	22.5	2.5%		
203	copy/supply	279	7.5	2.7%		
202	chiefs office	390	60	15.4%		
212	department office	468	45	9.6%		
108	dispatch/radio	400	52.5	13.1%		
106	Day Room	762	75	9.8%		
103	Wellness	600	75	12.5%		
s per 20	18 IMC section 402.2, the minumun	n openable area	to the outdoors sh	nall be 4% of the t		

FAN COIL	UNIT SCHEDULE	
DESIGNATION:	HV-1	
LOCATION	MER 131	
MANUFACTURER	FIRST CO.	
MODEL	16MB	
UNIT DIMENSIONS — WIDTH x HEIGHT x DEPTH (IN)	23×42×20	
DESIGN DATA:	·	
SUMMER OA TEMP (°F) DB/WB	94/72	
WINTER OA TEMP (°F)	10	
FILTERS:		
TYPE	1" MERV 8	
HOT WATER COIL:		
FACE AREA (SQ. FT.)		
No. OF ROWS/FINS PER INCH	3/12	
E.W.T./L.W.T. (°F)	140/110	
E.A.T./L.A.T. (°F)	44/85	
CAPACITY (MBH)	54	
GPM	3.6	
W.P.D. (FT H ₂ O)	2	
SUPPLY FAN:	·	
CFM	1200	
OAI CFM	525	
FAN MOTOR HP	1/2	
ESP (IN H₂O)	0.5	
VOLTS/Ø/Hz	208/1/60	
FLA/MCA/MOCP	8/-/-	

NOTES:

- PROVIDE THE FOLLOWING FEATURES & OPTIONS FOR EACH UNIT:

 UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
- COORDINATE RIGHT-HAND/LEFT-HAND COIL CONNECTIONS IN THE FIELD.
- •KEY LOCK ACCESS DOORS.
- •FURNISH 2-WAY MODULATING CONTROL VALVE FOR EACH COIL, WITH PIPING PACKAGE AS PER DETAIL ON DRAWING M7.3. 5 PSI MAX AT CONTROL VALVE.
- FOR UNITS WITH OAI INLET: FREEZE STAT ARRANGED TO OVERRIDE THE COIL CONTROL VALVE & SHUT DOWN UNIT AS PER THE SEQUENCE OF OPERATIONS. • WALL MOUNTED THERMOSTAT.
- FACTORY FURNISHED LOCAL DISCONNECT SWITCH.
- COIL AIR VENT. •(2) SETS OF SPARE FILTERS FOR EACH UNIT.

VRF SYS	STEM - INDOC	OR UNIT SC	HEDULE	
DESIGNATION	AC-1	AC-2	AC-3&4	AC-5&6
LOCATION	MER 114	ATTIC	ATTIC	ATTIC
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL	FXTQ60TAVJUD	FXTQ54TAVJUD	FXTQ60TAVJUD	FXTQ36TAVJUD
WEIGHT OF UNIT (LBS)	167	167	167	150
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A
SUCTION PIPE SIZE (IN)	5/8	5/8	5/8	_
LIQUID PIPE SIZE (IN)	3/8	3/8	3/8	_
DESIGN DATA:				
SUPPLY AIR (CFM)	1500	1500	1500	_
OUTDOOR AIR (CFM)	600	575	225	_
RETURN AIR (CFM)	900	925	1275	_
SUMMER OA TEMP (°F) DB/WB	92/74	92/74	92/74	_
SUMMER RA TEMP (°F) DB/WB	78/65	78/65	78/65	_
WINTER OA TEMP (°F)	10	10	10	_
WINTER RA TEMP (°F)	70	70	70	_
EVAPORATOR COIL (COOLING):	<u>'</u>	•	•	
E.A.T. (°F) DB/WB	⁸⁰ ⁄ ₆₇	⁸⁰ ⁄ ₆₇	8%7	_
L.A.T. (°F) DB/WB	55.2/55	57/53.1	55.2/55	_
CAPACITY (MBH) SENS./TOTAL	40.4/60	37.4/51.1	40.4/60	_
EVAPORATOR COIL (HEATING):	'			
E.A.T. (°F) DB	68	68	68	_
L.A.T. (°F) DB				_
CAPACITY (MBH) SENS./TOTAL	70.6	63.3	70.6	_
SUPPLY FAN:	j	!		
DESIGN AIRFLOW (CFM)	1500	1350		_
HP	1	1	1	_
ESP (IN H ₂ O)	.75	.75	.75	_
ELECTRICAL DATA:	' 	!	!	
VOLTS/ø/Hz	208/1/60	208/1/60	208/1/60	208/1/60
MCA/MOCP (AMPS)	8.6/15	8.6/15	8.6/15	4.9/15

1. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT EACH INDOOR UNIT SHALL BE FURNISHED BY THE

- MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 2. UNIT SHALL INCLUDE INTERNAL CONDENSATE PUMP.
- 3. REMOTE DETECTION UNIT TO BE FIELD INSTALLED IN THE INDOOR AC UNIT CASSETTE.
- CONNECTOR AND CONNECTOR PROTECTOR. 5. DETECTOR INSTALLATION KIT.
- 6. ALARM CONTACT ARRANGED TO SHUT DOWN AC UNIT UPON PUMP FAILURE. 7. (1) EXTRA SET OF FILTERS PER UNIT.
- 8. AC-5&6 ARE ADD/ALT #1 WORK ONLY.

VRF SYS	STEM - INC	OOR UNIT	SCHEDUL	E
INDOOR UNIT DESIGNATION	AC-A	АС-В	AC-C	AC-D
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL	FXZQ12TAVJU	FXZQ18TAVJU	FXLQ12MVJU9	FXAQ18PVJ
TYPE	CEILING CASSETTE	CEILING CASSETTE	FLOOR CONSOLE	WALL MOUNT
COOLING CAPACITY (TOTAL)(MBH)	12,000	18,000	12,000	12,000
HEATING CAPACITY (MBH)	13,500	20,000	13,500	13,500
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A
LIQUID LINE (INCHES)	<i>Y</i> ₄	1/4	1/4	1/4
HOT GAS LINE (INCHES)	1/2	1/2	1/2	1/2
CONDENSATE LINE (INCHES)	3/4	3/4	3/4	3/4
CFM	350	500	280	500
VOLTS/ø/Hz	208/1/60	208/1/60	208/1/60	208/1/60
MCA (AMPS)	0.4	0.6	0.5	0.4

- . FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT EACH INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 2. UNIT SHALL INCLUDE INTERNAL CONDENSATE PUMP POWERED THROUGH THE INDOOR UNIT. 3. REMOTE DETECTION UNIT — TO BE FIELD INSTALLED IN THE INDOOR AC UNIT CASSETTE.
- . CONNECTOR AND CONNECTOR PROTECTOR. DETECTOR INSTALLATION KIT.
- ALARM CONTACT ARRANGED TO SHUT DOWN AC UNIT UPON PUMP FAILURE.

VRF SYSTEM - OUTDOOR CONDENSING UNIT SCHEDULE

		<u>, </u>		<u> </u>
OUTDOOR UNIT DESIGNATION	ACC-1	ACC-2	ACC-3	ACC-4
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL	RELQ144TATJU	RELQ120TATJU	RELQ192TATJU	RELQ72TATJU
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A
NOMINAL COOLING / HEATING CAPACITY (MBH)	144 / 162	120 / 135	192 / 216	72 / 81
LIQUID LINE (INCHES)	1/2	1/2	5/8	3/8
HOT GAS LINE (INCHES)	1-1/8	1-1/8	1-1/8	3/4
HIGH/LOW PRESSURE LINE (INCHES)	7/8	3/4	1-1/8	5/8
VOLTS/ø/Hz	208/3/60	208/3/60	208/3/60	203/3/60
MCA/MOCP	60.8 + 60.8 / 70 + 70	83.4/90	76.5 + 76.5 / 80 + 80	60.8/70
EER (NON-DUCTED/DUCTED)	12.9/12.6	13.7/12.4	12.5/12.7	_
IEER (NON-DUCTED/DUCTED)	22.5/18.6	23.4/19.6	22.4/19	_
COP (NON-DUCTED/DUCTED)	3.81/3.55	3.98/3.51	3.85/3.59	_
WEIGHT (LBS.)	1,452	793	1,586	727
HEIGHT x WIDTH x LENGTH (IN)	67×98×30	67×49×30	67x98x30	67x49x30
VF	RF SYSTEM - UNIT C	OMBINATIONS		
OUTDOOR UNIT DESIGNATION	ACC-1	ACC-2	ACC-3	ACC-4
	AC-1 (MER 114)	AC-A (DEPT OFFICE)	AC-3 (ATTIC)	AC-5 (ATTIC)
	AC-D (EXERCISE)	AC-B (CHIEF'S OFFICE)	AC-4 (ATTIC)	AC-6 (ATTIC)
	AC-D (EXERCISE)	AC-D (COPY/SUPPLY)	AC-D (AIR ROOM)	
	AC-D (EXERCISE)	AC-A (CLASSROOM)	AC-C (STAIR 2)	
INDOOR UNITS SERVED	AC-A (DISPATCH)	AC-A (CLASSROOM)	AC-C (HALL 224)	
	AC-A (IT/SERVER)	AC-A (DISTRICT OFFICE)		
	AC-C (DAY ROOM)	AC-2 (ATTIC)		
	AC-C (DAY ROOM)			
	AC-C (LOBBY)			

. OUTDOOR CONDENSERS SERVE MULTIPLE INDOOR UNITS. REFER TO SCHEDULE FOR INDOOR/OUTDOOR UNIT CONFIGURATIONS. REFER TO RISERS AND MANUFACTURER'S INSTALLATION REQUIREMENTS FOR PIPING

- 2. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
- 0° LOW AMBIENT CONTROLS.
- •7-DAY PROGRAMMABLE WIRED SYSTEM CONTROLLER WITH ALARM OUTPUT.
- 2. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT EACH OUTDOOR UNIT SHALL BE
- FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR. 3. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE
- OUTDOOR UNIT AND INDOOR UNIT. 4. ACC-4 IS ADD-ALT #1 WORK ONLY.

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03.10.20 MEETING

Date Issue

03.27.20 DESIGN DEVELOPMENT 05.07.20 PROGRESS 05.08.20 CD PROGRESS SET 05.28.20 CD PROGRESS SET 06.30.20 CD REVIEW SET 09.01.20 CONSTRUCTION PROGRESS 09.15.20 ICC SUBMISSION 01.15.21 ISSUED FOR BID

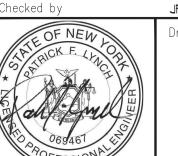
Project Title

Bedford Headquarters

550 Old Post Road Bedford, NY 10506

MECHANICAL SCHEDULES

Project No. NSPC0070.00 03-27-20 Scale AS NOTED Drawing by





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