	1 2		3 4
	SYMBOLS AND TAGS		SYMBOLS AND TAGS
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<u>32x20</u> <u>12x6</u>	DOUBLE-LINE AND SINGLE-LINE RECTANGULAR DUCT, FIRST NUMBER INDICATES SIDE IN VIEW IN INCHES, SECOND NUMBER INDICATES SIDE IN DEPTH IN INCHES		VRF CEILING-MOUNTED CASSETTE
<u>24ø</u> <u>12ø</u>	DOUBLE-LINE AND SINGLE-LINE ROUND DUCT, NUMBER INDICATES DIAMETER IN INCHES		
	DIRECTION OF AIR FLOW		
	TRANSITION / REDUCER	RTU	— EQUIPMENT TYPE
	RADIUS ELBOW WITH TURNING VANES & MITERED ELBOW WITH TURNING VANES	8	- EQUIPMENT TAG NUMBER
	VANED ELBOW OR RADIUS ELBOW (USE VANED ELBOW WHERE SPACE WILL NOT PERMIT THE USE OF LONG RADIUS ELBOW)	\	LINE BREAK
,, ,, ,,	RECTANGULAR DUCT BRANCH		
	RECTANGULAR SUPPLY AIR DUCT (UP AND DOWN) RECTANGULAR EXHAUST AIR DUCT (UP AND DOWN) ROUND SUPPLY AIR DUCT (UP AND DOWN) ROUND EXHAUST AIR DUCT (UP AND DOWN)		
	MOTORIZED DAMPER		
BDD 	BACKDRAFT DAMPER		
	SMOKE DAMPER		
- FSD 	COMBINATION FIRE/SMOKE DAMPER		
TYPE (CFM)	AIR TERMINAL - SIDEWALL GRILLE/REGISTER (AIRFLOW DIRECTION AND TYPE SHOWN)		
← TYPE (CFM) TYPE (CFM)	AIR TERMINAL - CEILING SUPPLY (AIRFLOW DIRECTION AND TYPE SHOWN) AIR TERMINAL - CEILING EXHAUST (AIRFLOW DIRECTION AND TYPE SHOWN)		
🖾 AD	ACCESS DOOR		
	AIR FLOW ARROW (SUPPLY)		
	AIR FLOW ARROW (RETURN/EXHAUST)		
	FAN - CENTRIFUGAL		
	FAN - ROOF MOUNTED MUSHROOM		
	FILTER - BAG		
	LOUVER		
\sim $^{\circ}$	COIL - COOLING		
	COIL - HEATING		
	THERMOSTAT		

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					CHECKED BY: DK		IS TO MADE
					DESIGN LEAD: DEEPAK KANDRA, PE	ARUP	*
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ABBREVIATIONS

SYMBOL	DESCRIPTION
°F	DEGREE FARENHEIT
Ø	DIAMETER OR PHASE
ACU	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
ARCH	
BAS	
BHP	
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
COND	CONDENSATE
DC	DIRECT CURRENT
DEG F	
DIA	DIAMETER
EAE	EXHAUST AIR EAN
FER	ENERGY EFFICIENCY RATIO
EG	EXHAUST GRILLE
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EXT	EXTERIOR
FLA	FULL LOAD AMP
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE/SMOKE DAMPER
FI	FEEI
GA	
HF HZ	HERTZ
IN	INCHES
KW	KILOWATT
LB	POUND
MAX	MAXIMUM
MBH	THOUSAND BTUH
MD	MOTORIZED DAMPER
MIN	MINIMUM
NU	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
(P)	PURGE MODE
PH	PHASE
QTY	QUANTITY
RA	RETURN AIR
RHG	REFRIGERANT HOT GAS
RL	
RPM	
RTU	
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SD	SMOKE DAMPER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SQ FT	SQUARE FEET
T	
	WATER GALIGE OR WALL GRILLE
WMS	WIRE MESH SCREEN



ACCOUNTABLE MANAGER JUSTIN RIVELLINO PORTFOLIO MANAGER LAUREN D'ATTILE, PE DEPUTY DIRECTOR, IN HOUSE DESIGN MICHAEL LOEHR, PE

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	BID SET DATE ISSUED: 04/2023	GRAPHIC SCALES CHECK BEFORE USE IF SHEET IS LESS THAN 22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY	< 34"	VERTICAL DATUM CONVERSION (ft) +1.28 BWS 0 NAVD88
FION UCTION	CONTRACT KENS-E KENSICO SITE PREPA	CAST-2 RATION	DATE: SCALE SHEET Page	APRIL 2023 : AS NOTED NO: • 429 of 536
OOR	ELECTRICAL BUIL	DING VIATIONS		wing no. B-H-001.00

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23.	IT IS THE RESPONSIBILITY OF THIS CONTRA ALL NEW AND EXISTING WORK OF ALL OTH PREPARED BY THIS CONTRACTOR SHALL I WORK OF ALL OTHER TRADES.	ACTOR T IER TRAE NDICATE	O COORDINATE ALL WOR DES. THE SHOP DRAWING SPACE ALLOWANCES FO	RK WITH SS OR ALL		
	ENGINEER SO AS TO NOT DISRUPT BUILDIN TEMPORARY SHUTDOWNS ARE REQUIRED BUILDING ENGINEER AND SCHEDULED AS I ACCOMPLISHED AFTER NORMAL WORKING LABOR SHALL BE INCLUDED IN THE BASE E	NG OPER THEY SH REQUIRE HOURS. BID.	ATIONS AND SERVICES. HALL BE COORDINATED V D. ALL SHUTDOWNS MUS ALL REQUIRED OVERTIN	I⊢ VITH ST BE ∕IE		
22.	EXISTING SERVICES.		TED WITH THE BUILDING	IF		
20.	COORDINATE INSTALL ATION OF NEW DIDE	S IN THE				
19.	OF PIPING SYSTEM.			PUINTS		
18.	PROVIDE MANUAL AIR VENTS, DRAINS AND HIGH AND LOW POINTS IN THE SYSTEM.	RELIEF	VALVES. AS REQUIRED A			
17.	PROVIDE REDUCER FITTINGS FOR CHANGE CONNECTION AT EQUIPMENT AND AS REQU VENTING.	E IN PIPE UIRED TC	SIZE AND FOR FINAL PERMIT DRAINAGE AND)		
16.	FOR PIPING REQUIREMENTS NOT INDICATE CONNECTION DETAILS AND DIAGRAMS.	ED ON PL	ANS, SEE RELATED			
15.	PROVIDE ESCUTCHEONS AND SEALING OF SEPARATIONS IN ACCORDANCE WITH DET	ALL PEN	IETRATIONS OF FIRE VINGS.			
14.	CONTRACTOR SHALL COMPLY WITH ALL AF REQUIREMENTS AND PROVIDE ALL REQUIF WORK.	PPLICABL RED CON	E BUILDING CODE	FOR HIS		
13.	IT IS THE RESPONSIBILITY OF THE CONTRA TRADES. THE SHOP DRAWINGS PREPARED SPACE ALLOWANCES FOR ALL WORK OF A SIGNED OFF BY OTHER CONTRACTORS.	ACTOR TO DBY THE LL OTHE	D COORDINATE WORK W CONTRACTOR SHALL INI R TRADES AND SHALL BE	ILL ALL DICATE E		
12. _	CONTRACTOR SHALL VERIFY CLEARANCE ENGINEER AND ARCHITECT ABOUT POSSIE	ABOVE T BLE CONF	HE CEILING AND NOTIFY FLICTS.	THE		
11.	CONTRACTOR SHALL COORDINATE INSTAL SERVICES AND TRADES.	LATION (OF EQUIPMENT WITH ALL			
10.	PROVIDE METAL COVER PLATES FOR ALL F PREVENT PIPE DAMAGE. PLATES SHALL NO MAINTENANCE TRAFFIC.	PIPES LO OT BE DA	CATED AT FLOOR LEVEL MAGED BY NORMAL	то		
9.	THIS CONTRACTOR SHALL INSTALL DUCT N FURNISHED BY THE ELECTRICAL CONTRAC	MOUNTEE CTOR.	O SMOKE DETECTORS			
8.	PROVIDE AN INSULATED SHEETMETAL DRA COIL UNITS. DRAIN PAN SHALL BE 4" DEEP EDGE OF THE FAN COIL. PROVIDE TRAP AN	AIN PAN E AND SHA ND DRAIN	BELOW ALL CEILING HUN ALL EXTEND 6" BEYOND T PIPING.	G FAN 32 HE	2. THE CO	NTRACTOR SHALL BE
7.	ALL EQUIPMENT, DUCTS, PIPING, AND OTH OUTSIDE OF THE BUILDING OR OTHERWISE COMPLETELY WEATHERPROOFED.	ER DEVIC E EXPOSI	CES AND MATERIALS INS ED TO THE WEATHER SH	TALLED 3 ² ALL BE	1. CONTR/ PERFOF ARE NO	ACTOR SHALL IDENTI RMED ON OVERTIME T IN CONTRACT.
6.	MANUAL DAMPERS SHALL BE PROVIDED IN BRANCHES TO INDIVIDUAL DIFFUSERS, GR	I ALL DUC	CT BRANCHES AND IN ALI ID REGISTERS.	_	DETERN NORMA WORK I	AINE EXTENT OF WOLL N OPERATING HOURS
5.	DUCT AND PLENUM SIZES INDICATED ON T DIMENSIONS. WHERE DUCTWORK AND PLE SIZES SHALL BE ADJUSTED TO PROVIDE TH	THE DRAV ENUMS AI HE INSIDI	VINGS ARE INSIDE CLEAF RE INTERNALLY LINED, T E CLEAR DIMENSIONS	R 29 HEIR). ALL PIP DROPS	ING IS SHOWN DIAGE AND RISERS OF RUN
4.	DUCTWORK SHALL BE INSULATED OR LINE ON DRAWINGS. ALL DUCT JOINTS AND SEA SPECIFICATIONS.	D PER SI MS SHAL	PECIFICATIONS OR AS NO L BE SEALED PER	OTED	INFORM RESPON BEING S WITHOU	ATION FROM ONE MA NSIBLE FOR CHECKIN SUBMITTED AND SHA JT ANY ADDITIONAL (
3.	ALL DUCTWORK SHALL BE CONSTRUCTED, ACCORDANCE WITH THE MOST RESTRICTI PROCEDURES DETAILED IN THE ASHRAE H APPLICABLE STANDARDS ADOPTED BY THI CONTRACTORS NATIONAL ASSOCIATION.	, ERECTE VE OF LC IANDBOO E SHEET	ED, AND TESTED IN OCAL REGULATIONS, OK OF FUNDAMENTALS, O METAL AND AIR CONDITI	27 OR THE ONING 28	7. Contr/ Piping, Struct 3. All Suf	ACTOR SHALL PROVI AND EQUIPMENT WI URAL ENGINEER. PPORTS FOR MECHA
	EQUIPMENT MANUFACTURER'S RECOMMEI TRANSITIONS, DAMPERS, VALVES, AND OT COMPLETE WORKABLE INSTALLATION.	NDATION HER DEV	S. PROVIDE ALL FITTING ICES REQUIRED FOR A	S, 26	6. CONTR/ SHOWN	ACTOR SHALL VERIF ON CONTRACT.
2	DETAILED ON THE ARCHITECTURAL REFLE ARCHITECTURAL ROOM ELEVATIONS.	CTIVE CE	EILING PLAN, AND	25	REQUIR WORK.	EMENTS AND PROVI
<u>G</u> 1.	ENERAL NOTES EXACT LOCATIONS OF ALL CEILING DIFFUS	ERS, RE	GISTERS AND GRILLES	24	4. CONTR/	ACTOR SHALL COMPI

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	NE	W Y	ORK STATE	E ENER	<u>GY CODE</u>	E COMPL	<u>IANCE</u>	
Y WITH ALL APPLICABLE BUILDING CODE DE ALL REQUIRED CONTROLLED INSPECTIONS FOR HIS	1.	TO PLA CON	THE BEST OF MY NS AND SPECIFIC ISERVATION COM	KNOWLED CATIONS AF	GE, BELIEF A RE IN COMPL N CODE OF N	ND PROFES IANCE WITH NEW YORK S	SIONAL JUE THE ENER STATE.	DGMENT, THE GY
SYSTEMS.	2.	EXH WIT	AUST OPENINGS	S INTEGRAL		DING ENVE	LOPE SHAL	L BE EQUIPPI MPER WITH A
ON-SITE ALL CONDITIONS AND MEASUREMENTS		MAX WHI	IMUM LEAKAGE EN TESTED IN AC	RATE OF 4 CORDANCE	CFM PER SQ E WITH AMCA	UARE FOOT \$500D.	AT 1.0 INCH	WATER GAU
DE DETAILS AND LOCATIONS OF SUPPORTS FOR ALL TH LOAD CALCULATIONS FOR REVIEW BY THE	3.	ALL MIN WIT	SUPPLY AND RE MUM OF R-5 INS H A MINIMUM OF	TURN AIR D ULATION W R-8 INSULA	UCTS AND P HEN LOCATE TION WHEN	LENUMS SH D IN UNCON LOCATED O	ALL BE INS IDITIONED S UTSIDE OF	ULATED WITH SPACES AND A BUILDING
NICAL EQUIPMENT ARE BASED ON PRELIMINARY NUFACTURER. THE CONTRACTOR SHALL BE G SIZES FROM CERTIFIED DRAWINGS OF EQUIPMENT L MAKE ANY STRUCTURAL MODIFICATIONS REQUIRED		TEN PLE INSI	PERATURE DIFF NUM DOES NOT I JLATION REQUIR	ERENCE BE EXCEED 15° EMENTS.	TWEEN INTE 'F). REFER TO	ERIOR AND E	TTERIOR C	OF THE DUCT R ADDITIONAL
OST TO THE OWNER. AMMATICALLY AND DOES NOT SHOW ALL OFFSETS,	4.	ALL SEA YOF REE	DUCTS, AIR HAN MS SHALL COMP K STATE OR, IN I	DLERS AND PLY WITH SE NEW YORK) FILTER BOX ECTION 603.9 CITY, THE NI	ES SHALL B OF THE ME EW YORK CI	E SEALED. CHANICAL (TY CONSTR	JOINTS AND CODE OF NEV RUCTION COE
E COORDINATE WITH BUILDING ENGINEER TO RK WHICH IS REQUIRED TO BE PERFORMED AFTER	5.	ALL	LONGITUDINAL A PLY AND RETUR	AND TRANS' N DUCTS O	VERSE JOINT PERATING A	TS, SEAMS A T A STATIC F	ND CONNE PRESSURE	CTIONS OF LESS THAN C
FY ANY WORK WHICH MAY BE REQUIRED TO BE		WEL SYS	LDS, GASKETS, M TEMS OR TAPES TRUCTIONS AND	IN ACCORE SPECIFICA	DHESIVES), M DANCE WITH TIONS.	ASTIC-PLUS THE MANUF	S-EMBEDDE	D-FABRIC S INSTALLATI
AR ALL COSTS FOR UTILITY SHUTDOWNS.	6.	ALL INCI THE	PIPING (EXCEPT I IN DIAMETER B RMALLY INSULA ⁻	FOR RUNO ETWEEN TH TED AS FOL	UT PIPING N HE CONTROL LOWS:	OT EXCEEDI . VALVE AND	NG 4 FEET HVAC COII	IN LENGTH A _) SHALL BE
		A.	HEATING WOT THICKNESS	WATER < 1	.5 INCHES DI	AMETER: 1.5	5 INCHES M	INIMUM
		В.	HEATING HOT THICKNESS	WATER > 1.	5 INCHES DI	AMETER: 2.0	INCHES MI	NIMUM
		C.	CHILLED WATE	ER: 1.5 INCH	ES MINIMUM	THICKNESS		
		D.	BASED ON INS EXCEEDING 0.2 ADDITIONAL IN	ULATION HA 27 BTU PER ISULATION I	AVING A THE INCH/H-SF-ଂ REQUIREMEI	RMAL COND F. REFER TC NTS.	UCTIVITY (k SPECIFICA	() NOT ATIONS FOR
	7.	AN (OWI LEA	DPERATING AND NER BY THE MEC ST, THE FOLLOW	MAINTENAI CHANICAL C /ING:	NCE MANUAL ONTRACTOR	. SHALL BE F R. THE MANU	PROVIDED 1 AL SHALL II	O THE BUILD NCLUDE, AT
		A.	EQUIPMENT CA ACTIONS.	APACITY (IN	IPUT AND OU	ITPUT) AND F	REQUIRED	MAINTENANC
		В.	EQUIPMENT OF	PERATION A		NANCE MANU	JALS.	

- C. HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICE OR IN PROGRAMMING COMMENTS.
- D. A COMPLETE WRITTEN NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.



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	CONTRACT KENS	-EAST-2		DATE: APRII	u ∼ NAVD88 - 2023 NOTED	
TION	KENSICO SITE PREP	PARATION	N	SHEET NO: Page 430	of 536	
LOOR	ELECTRICAL BUI GENERAL NO	LDING TES		DRAWING	g no. 1-002.00	
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								١	VRF HEAT F	PUMP OI	UTDOOF	R UNIT SCHEDULE													
TOTAL COOLING TOTAL HEATING														E	ELECTRIC	CAL DAT	A	OPERATING							
			SYSTEM		CAPACITY	CAPACITY		REFRIGERANT	REFRIGERANT	LIQUID	VAPOR					AIRFLOW								WEIGHT	
TAG	MANUFACTURER	MODEL	SERVED	LOCATION	(BTU/H)	(BTU/H)	EER	TYPE	CHARGE (LB)	(RL) OD	(RHG) OD	COMPRESSOR TYPE	TYPE	DRIVE	QTY	(CFM)	LENGTH	WIDTH	HEIGHT	V	PH	HZ	FLA	(LB)	NOTES
ACCU-1	LG	ARUN038GSS4	ACU-1	OUTDOOR - ROOF	38,000	42,000	11.5	R410A	7	3/8"	5/8"	DC INVERTER STARTING	AXIAL FLOW	DIRECT	2	3900	15	37	54	208	1	60	21	207	1, 2
ACCU-2	LG	ARUN024GSS4	ACU-2	OUTDOOR - ROOF	24,000	27,000	10.7	R410A	4	3/8"	5/8"	DC INVERTER STARTING	AXIAL FLOW	DIRECT	1	2100	15	37	38	208	1	60	16	159	1, 3

NOTES:

MOUNTED ON BASE RAILS SUPPORTED BY STRUCTURAL CHANNELS. SEE STRUCTURAL DRAWINGS FOR DETAIL 1 UNIT SHALL PROVIDE MINIMUM HEATING CAPACITY OF 21 MBH AT 9 DEG F AMBIENT DESIGN CONDITION 2.

UNIT SHALL PROVIDE MINIMUM HEATING CAPACITY OF 11 MBH AT 9 DEG F AMBIENT DESIGN CONDITION 3.

	VRF HEAT PUMP INDOOR UNIT SCHEDULE																					
TOTAL COOLING TOTAL HEATING								FAN DA	ATA		PIPING	CONNECT	IONS	DI	MENSION	IS	EL	ECTR		DATA	OPERATING	
					CAPACITY	CAPACITY			MAX SUPPLY	REFRIGERANT	LIQUID	VAPOR	COND							RATED	WEIGHT	
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	LOCATION	(BTU/H)	(BTU/H)	DRIVE	QTY.	AIRFLOW (CFM)	TYPE	(RL) OD	(RS) OD	ID	LENGTH	WIDTH	HEIGHT	V	PH	HZ	AMP	(LB)	NOTES
ACU-1	LG	ARNU283TMA4	SECURITY ROOM	SECURITY ROOM	28,000	31,500	DIRECT	1	920	R410A	3/8"	5/8"	1"	33"	33"	11"	208	1	60	1.30	58	ALL
ACU-2	LG	ARNU153TQD4	COMMUNICATIONS ROOM	COMMUNICATIONS ROOM	15,400	17,100	DIRECT	1	388	R410A	1/4"	1/2"	1"	22"	22"	11"	208	1	60	0.20	35	ALL

NOTES:

UNIT TO BE CEILING MOUNTED, SUSPENDED FROM HANGERS SUPPORTED BY SLAB ABOVE 1. 2. INCLUDE FACTORY MOUNTED CONDENSATE PUMP

								RO	OFTOP UNIT		DULE																
					PERFORMANCE	_			SUPPLY FA	٨N			FILTER	COMPRE	SSOR		CONDENSER	FAN	ELEC	CTRICAL			MAXIMI	JM DIME	NSIONS		
								SUPPLY	MINIMUM																(OPERATING	
				TOTAL COOLING	SENSIBLE COOLING	HEATING	AHRI	AIRFLOW	OUTSIDE	EXT S.P.						REFRIG							HEIGHT	WIDTH	LENGTH	WEIGHT	
TAG	MANUFACTURER	MODEL	AREA SERVED	CAPACITY (BTUH)	CAPACITY (BTUH)	CAPACITY (BTUH)	EER	(CFM)	AIRFLOW (CFM)	(IN. W.G.)	QTY. KW	QTY	EFFICIENCY	QTY.	KW	TYPE	QTY FA	HP \	' PH	HZ	FLA	OPERATION	(IN)	(IN)	(IN)	(LB)	NOTES
RTU-1	STULZ	CYBERPACK ASC-20A-DX	UNIT SUBSTATION ROOM	273,500	273,500	82,000	11.2	11,000	140	1.05	2 3.1	8	MERV 8	2	9.0	R410A	4 2	9 46	0 3	60	81	DUTY	70"	88"	150"	3100	1
RTU-2	STULZ	CYBERPACK ASC-15C-DX	MV SWITCHGEAR ROOM	178,300	132,100	41,000	11.1	4,540	160	0.50	1 3.1	6	MERV 8	2	6.7	R410A	2 2	9 46	0 3	60	49	DUTY	70"	74"	147"	2250	1
RTU-3	TRANE	WHC036H4R0B	BATTERY ROOM	34,600	26,200	32,000	12.5	1,200	0	0.50	1 1.1	2	MERV 8	1	2.4	R410A	1 (3 46	0 3	60	13	DUTY	41"	44"	70"	793	1, 2
RTU-4	TRANE	WHC036H4R0B	BATTERY ROOM	34,600	26,200	32,000	12.5	1,200	0	0.50	1 1.1	2	MERV 8	1	2.4	R410A	1 (3 46	0 3	60	13	STANDBY	41"	44"	70"	793	1, 2

NOTES:

MOUNTED ON STEEL DUNNAGE WITH GRATING PLATFORM SURROUNDING UNIT FOR ACCESS. SEE STRUCTURAL DRAWINGS FOR DUNNAGE COORDINATION. 1. 2. HEATING CAPACITY AT 9 DEG F AMBIENT DESIGN CONDITION IS 15 MBH. EUH-1 PROVIDES SUPPLEMENTAL HEATING TO MAINTAIN HEATING SETPOINT IN BATTERY ROOM.

				ELECTRIC UNIT HE	EATER SCH	EDULE								
						FAN	1	ELE	ECTRIC	CAL DA	ΑTA		OPERATING	
						AIRFLOW		CAPACITY					WEIGHT	
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	LOCATION	TYPE	(CFM)	HP	(KW)	FLA	V	PH	HZ	(LB)	NOTES
EUH-1	INDEECO	233-FA-0106U	BATTERY ROOM	BATTERY ROOM	CONVECTION	850	0.25	10	13	480	3	60	110	1, 2, 3
EUH-2	MARLEY	MUH03-41	FIRE SUPPRESSION ROOM	FIRE SUPPRESSION ROOM	CONVECTION	350	0.01	3	4	480	3	60	27	1, 2
EUH-3	MARLEY	MUH03-41	MV SWITCHGEAR ROOM	MV SWITCHGEAR ROOM	CONVECTION	350	0.01	3	4	480	3	60	27	1, 2
EUH-4	MARLEY	MUH03-41	MV SWITCHGEAR ROOM	MV SWITCHGEAR ROOM	CONVECTION	350	0.01	3	4	480	3	60	27	1, 2
EUH-5	MARLEY	MUH03-41	MV SWITCHGEAR ROOM	MV SWITCHGEAR ROOM	CONVECTION	350	0.01	3	4	480	3	60	27	1, 2
EUH-6	MARLEY	MUH03-41	MV SWITCHGEAR ROOM	MV SWITCHGEAR ROOM	CONVECTION	350	0.01	3	4	480	3	60	27	1, 2
EUH-7	MARLEY	MUH03-41	MV SWITCHGEAR ROOM	MV SWITCHGEAR ROOM	CONVECTION	350	0.01	3	4	480	3	60	27	1, 2
EUH-8	MARLEY	MUH03-41	MV SWITCHGEAR ROOM	MV SWITCHGEAR ROOM	CONVECTION	350	0.01	3	4	480	3	60	27	1, 2

<u>NOTES:</u>

UNIT MOUNTED WITH WALL MOUNTING BRACKET.

HEATING CAPACITY SIZED FOR 9 DEG F AMBIENT DESIGN CONDITION.
 UNIT LOCATED IN BATTERY ROOM SHALL BE EXPLOSION PROOF CONSTRUCTION.

	DIFFUSER & GRILLE SCHEDULE														
				IN	ILET SIZE		NOMI	NAL DIMEN	SIONS						
				DIAMETER	WIDTH	HEIGHT	LENGTH	WIDTH	HEIGHT	MAX S.P.	MAX	MAX FLOW			
TAG	MANUFACTURER	MODEL	TYPE	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN. W.G.)	N.C.	(CFM)	NOTES		
CD-1	TITUS	PAS	CEILING DIFFUSER		12	12	24	24	3	0.05	20	300			
CD-2	TITUS	PAS	CEILING DIFFUSER		8	8	24	24	3	0.05	20	150			
EG-1	TITUS	PAR	CEILING DIFFUSER	12			24	24	3	0.05	20	300			
SG-1	TITUS	122RL	SIDEWALL GRILLE		24	16	2	26	18	0.05	25	1500			
SG-2	TITUS	122RL	SIDEWALL GRILLE		16	16	2	18	18	0.05	20	1000	1		

NOTES:

1. GRILLES LOCATED IN BATTERY ROOM SHALL BE STAINLESS STEEL CONSTRUCTION.

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				CHECKED BY: DK	·	ES PARA
				DESIGN LEAD: DEEPAK KANDRA, PE	ARIIP	153 041001225
О.	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER:		PROFESSIONAL

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ROOF	TOP	UNIT	SCHED	ULE



ACCOUNTABLE MANAGER JUSTIN RIVELLINO PORTFOLIO MANAGER LAUREN D'ATTILE, PE DEPUTY DIRECTOR, IN HOUSE DESIGN MICHAEL LOEHR, PE

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	BID SET DATE ISSUED: 04/2023	GRAPHIC SCALES CHECK BEFORE USE IF SHEET IS LESS THAN 22" > IT IS A REDUCED PRINT. SCALE ACCORDINGLY	〈 34"	VERTICAL DATUM CONVERSION (ft) +1.28 BWS 0 NAVD88
FION uction	CONTRACT KENS-E KENSICO SITE PREPA	EAST-2 RATION	DATE: A SCALE: SHEET Page	APRIL 2023 : AS NOTED NO: : 431 of 536
LOOR	ELECTRICAL BUIL EQUIPMENT SCHED	DING ULES 1		wing no. B-H-003.00

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										М	OTOR	DATA			VIBRATIO	N ISOLATION	OPERATING	
						E.S.P.	FAN									MINIMUM STATIC	WEIGHT	
TAG	MANUFACTURER & MODEL NO.	SERVICE	AREA SERVED	TYPE	CFM	(IN. W.G.)	RPM	BHP	HP	V	PH	HZ	DRIVE	OPERATION	TYPE	DEFLECTION (IN)	(LB)	NOTES
EAF-1	GREENHECK-USF-30-5-A1-0	EXHAUST	UNIT SUBSTATION ROOM	CENTRIFUGAL BLOWER	13,100	1.2	988	5	10	460	3	60	DIRECT	DUTY	OPEN SPRING	0.75	735	3, 7
EAF-2	GREENHECK-USF-30-5-A1-0	EXHAUST	UNIT SUBSTATION ROOM	CENTRIFUGAL BLOWER	13,100	1.2	988	5	10	460	3	60	DIRECT	STANDBY	OPEN SPRING	0.75	735	3, 7
EAF-3	GREENHECK-USF-30-5-A1-0	EXHAUST	MV SWITCHGEAR ROOM	CENTRIFUGAL BLOWER	14,100	1.3	1053	6	10	460	3	60	BELT	DUTY	OPEN SPRING	0.75	735	3, 7
EAF-4	GREENHECK-USF-30-5-A1-0	EXHAUST	MV SWITCHGEAR ROOM	CENTRIFUGAL BLOWER	14,100	1.3	1053	6	10	460	3	60	DIRECT	STANDBY	OPEN SPRING	0.75	735	3, 7
EAF-5	GREENHECK-G-097-VG	EXHAUST	SECURITY ROOM	CENTRIFUGAL DOWNBLAST	270	0.5	1629	0.11	0.25	115	1	60	DIRECT	DUTY	-	0.00	38	4
EAF-6	GREENHECK-G-097-VG	EXHAUST	COMMUNICATIONS ROOM	CENTRIFUGAL DOWNBLAST	130	0.3	1090	0.03	0.25	115	1	60	DIRECT	DUTY	-	0.00	38	8
EAF-7	GREENHECK-USF-10-5-B1	EXHAUST	BATTERY ROOM	CENTRIFUGAL BLOWER	600	0.5	1411	0.12	0.25	115	1	60	BELT	DUTY	-	0.00	180	2, 3, 5, 9
EAF-8	GREENHECK-USF-10-5-B1	EXHAUST	BATTERY ROOM	CENTRIFUGAL BLOWER	600	0.5	1411	0.12	0.25	115	1	60	BELT	STANDBY	-	0.00	180	2, 3, 5, 9
EAF-9	GREENHECK-G-060-VG	EXHAUST	FIRE SUPPRESSION ROOM	CENTRIFUGAL DOWNBLAST	100	0.2	1355	0.01	0.07	115	1	60	DIRECT	DUTY	-	0.00	19	4
SAF-1	GREENHECK-USF-30-5-A1-0	SUPPLY	UNIT SUBSTATION ROOM	CENTRIFUGAL BLOWER	14,600	2.3	1184	8.9	10	460	3	60	DIRECT	DUTY	OPEN SPRING	0.75	735	1, 3, 6
SAF-2	GREENHECK-USF-30-5-A1-0	SUPPLY	UNIT SUBSTATION ROOM	CENTRIFUGAL BLOWER	14,600	2.3	1184	8.9	10	460	3	60	DIRECT	STANDBY	OPEN SPRING	0.75	735	1, 3, 6
SAF-3	GREENHECK-USF-30-5-A1-0	SUPPLY	MV SWITCHGEAR ROOM	CENTRIFUGAL BLOWER	15,600	2.1	1216	9.4	10	460	3	60	DIRECT	DUTY	OPEN SPRING	0.75	735	1, 3, 6
SAF-4	GREENHECK-USF-30-5-A1-0	SUPPLY	MV SWITCHGEAR ROOM	CENTRIFUGAL BLOWER	15,600	2.1	1216	9.4	10	460	3	60	DIRECT	STANDBY	OPEN SPRING	0.75	735	1, 3, 6

NOTES:

PROVIDE INLET GUARD.

PROVIDE OUTLET GUARD.

FAN MOUNTED ON BASE RAILS WITH SPRING ISOLATORS. BASE RAILS SUPPORTED BY STRUCTURAL CHANNELS. SEE STRUCTURAL DRAWINGS FOR DETAIL. FAN MOUNTED ON ROOF CURB. SEE STRUCTURAL DRAWINGS FOR DETAIL.

TOP HORIZONTAL CONFIGURATION.

BOTTOM HORIZONTAL CONFIGURATION. TOP ANGULAR UP CONFIGURATION.

FAN MOUNTED 3 FEET ABOVE ROOF LEVEL ON STEEL FRAME TO ALLOW DUCT CONNECTION FROM BELOW WITH 18" CLEARANCE FROM ROOF. 8. 9. FANS SHALL HAVE MINIMUM OF 2 HOURS OF STANDBY POWER AND SUPERVISION AT DEP SELECTED CENTRAL MONITORING STATION PER SECTION 1206.13.1, 2020 NYS FIRE CODE IN ACCORDANCE WITH NFPA 72

MOTORIZED DAMPER SCHEDULE							
			DAMPER DI	MENSIONS	DAMPE	R ACTU	JATORS
TAG	MANUFACTURER	MODEL NO.	HEIGHT (IN)	WIDTH (IN)	V	PH	HZ
MD-01	EWC	ND	24	24	24	1	60
MD-02	EWC	ND	36	42	24	1	60
MD-03	EWC	ND	36	42	24	1	60
MD-04A	EWC	ND	32	24	24	1	60
MD-04B	EWC	ND	32	24	24	1	60
MD-05	EWC	ND	36	42	24	1	60
MD-06A	EWC	ND	32	24	24	1	60
MD-06B	EWC	ND	32	24	24	1	60
MD-07	EWC	ND	36	42	24	1	60
MD-08A	EWC	ND	32	24	24	1	60
MD-08B	EWC	ND	32	24	24	1	60
MD-09	EWC	ND	36	42	24	1	60
MD-10A	EWC	ND	32	24	24	1	60
MD-10B	EWC	ND	32	24	24	1	60
MD-11	EWC	ND	16	16	24	1	60
MD-12	EWC	ND	12	12	24	1	60
MD-13	EWC	ND	8	8	24	1	60
MD-14	EWC	ND	12	12	24	1	60
MD-15	EWC	ND	16	16	24	1	60
MD-16	EWC	ND	16	16	24	1	60
MD-17	EWC	ND	16	16	24	1	60
MD-18	EWC	ND	16	16	24	1	60
MD-19	EWC	ND	12	12	24	1	60
MD-20	EWC	ND	12	12	24	1	60
MD-21	EWC	ND	8	8	24	1	60
MD-22	EWC	ND	12	12	24	1	60

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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER:		PROFESSIONAL

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ACCOUNTABLE MANAGER JUSTIN RIVELLINO PORTFOLIO MANAGER LAUREN D'ATTILE, PE DEPUTY DIRECTOR, IN HOUSE DESIGN "WARNING-IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2."

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GRAPHIC SCALES CHECK BEFORE USE VERTICAL DATUM CONVERSION (ft)	ſ	
BID SET DATE ISSUED: 04/2023 IF SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY 0 NAVD88		
CONTRACT KENS-EAST-2		
CTION KENSICO SITE PREPARATION SCALE: AS NOTED SHEET NO: Page 432 of 536 FLOOR FLOOR DRAWING NO.	TION RUCTION FLOOR	
ELECTRICAL BUILDING EQUIPMENT SCHEDULES 2 KSEB-H-004.00		

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	Protection BEDC/IHD	GRAPHIC SCALES CHECK BEFORE USE		VERTICAL DATUM CONVERSION (ft)	
	BID SET DATE ISSUED: 04/2023	IF SHEET IS LESS THAN 22" > IT IS A REDUCED PRINT. SCALE ACCORDINGLY	〈 34"	•1.28 BWS	
TION	CONTRACT KENS-EAST-2 KENSICO SITE PREPARATION			APRIL 2023	
				SCALE: AS NOTED	
	KENSICO SITE I KEI AKATION		SHEET NO:		
RUCTION		Page 433 of 536			
LOOR					
	SINGLE LINE DIAG	ELECTRICAL BUILDING			



BIM 360://Kensico-Eastview Connector (KEC)/KSEB-M_MODEL_ARI

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NO. DATE

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DEEPAK KANDRA, PE

SECTION MANAGER:

DESIGN LEAD:

APPR'D.

REVISIONS/DESCRIPTION



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JUSTIN RIVELLINO PORTFOLIO MANAGER LAUREN D'ATTILE, PE DEPUTY DIRECTOR, IN HOUSE DESIGN MICHAEL LOEHR, PE "WARNING-IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON,
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(20" SG-1 (1560 CFM)	EUH 5 			Ē
	EB-2			
		KEY PL	AN	E
		3/16"=1'-0"	<u>10</u> FT.	F
	BID SET DATE ISSUED: 04/2023	GRAPHIC SCALES CHECK BEFORE USE IF SHEET IS LESS THAN 22" > IT IS A REDUCED PRINT. SCALE ACCORDINGLY	VERTICAL DATUM CONVERSION (ft) +1.28 BWS 0 NAVD88	
TION RUCTION FLOOR	CONTRACT KENS-I KENSICO SITE PREPA HVAC ELECTRICAL BUIL	EAST-2 ARATION DING	DATE: APRIL 2023 SCALE: AS NOTED SHEET NO: Page 434 of 536 DRAWING NO.	
	OVERALL FLOOR	PLAN	KSEB-H-401.00	

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	NOTE	ES:
	1. C	ONDENSATE DRAIN TO LOW POINT ON ROOF.
	2. S ⁻ R S ⁻ DI	TEEL GRATING ACCESS PLATFORM FOR TU'S LOCATED ON DUNNAGE. REFER TO TRUCTURAL DRAWINGS FOR DUNNAGE ETAILS.
	3. PF FA	ROVIDE AIR FILTER (MERV 8) AT SUPPLY AIR AN
	4. PF AI AF	ROVIDE FILTERS (MERV 8) ON ALL MAKE-UP R INTAKES OR SIDEWALL LOUVERS AS PPLICABLE
EB-A		
1 1/4" COND- NOTE 1		
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	DATE ISSUED: 04/2023	3/16"=1'-0" GR CHE IF SHEET I IT IS A SCAL	0 5 APHIC SCALES CK BEFORE USE S LESS THAN 22" X 34" REDUCED PRINT. E ACCORDINGLY	10 FT. VERTICAL DATUM CONVERSION (ft) +1.28 BWS 0 NAVD88	F
CTION RUCTION FLOOR	CONTRACT KE KENSICO SITE PR HVAC ELECTRICAL B SECTION	NS-EAST-2 EPARATION	DATE SCAL SHEE Pag DR/	E: APRIL 2023 LE: AS NOTED ET NO: ge 437 of 536 AWING NO. EB-H-702.00	

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CTION TRUCTION	CONTRACT KENS-I KENSICO SITE PREPA HVAC	EAST-2 ARATION	DATE: SCALE: SHEET Page	APRIL 2023 : AS NOTED NO: • 438 of 536	
FLOOR	ELECTRICAL BUIL SECTIONS 3	DING	DRAN KSE	wing no. B-H-703.00	

+365.00' OPERATING FLR

+388.17' T.O RAIN SCREEN FACADE

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	BID SET DATE ISSUED: 04/2023	GRAPHIC SCALES CHECK BEFORE USE IF SHEET IS LESS THAN 22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY	⟨ 34"	VERTICAL DATUM CONVERSION (ft) +1.28 BWS 0 NAVD88
TION RUCTION	CONTRACT KENS-E KENSICO SITE PREPA HVAC	EAST-2 ARATION	DATE: SCALE SHEET Page	APRIL 2023 : AS NOTED NO: • 440 of 536
LOOK	ELECTRICAL BUIL HVAC DETAILS	DING 2		wing no. B-H-802.00

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SY	MBOLS AND TAGS		ABBREVIA	TIONS	
SYMBOL	DESCRIPTION	SYMBOL	D	ESCRIPTION	
	FAN - CENTRIFUGAL	AC ACU ACCU AFS	ALARM CONTACT AIR CONDITIONING U AIR COOLED CONDE AIR FLOW SWITCH	JNIT NSING UNIT	
Θ	ACTUATOR - MOTOR	BDD BHP BLDG	BACKDRAFT DAMPE BRAKE HORSEPOWE BUILDING	R ER	
	MOTOR STARTER	BTU BTUH CDP	BRITISH THERMAL U BTU PER HOUR CONDENSATE PUMP	NIT	
xxx	PANEL (SEE ABBREVIATIONS)	DES EA EAF EUH FSD LS	DAMPER END SWITC EXHAUST AIR EXHAUST AIR FAN ELECTRIC UNIT HEA COMBINATION FIRE/ LEAK SENSOR	CH TER SMOKE DAMPER	
	DAMPER	MD NO NTS OA RA RTU	MOTORIZED DAMPE NUMBER NOT TO SCALE OUTSIDE AIR RETURN AIR ROOFTOP UNIT	R	
	DAMPER - FIRE / SMOKE	SA SAF SD TT TYP	SUPPLY AIR SUPPLY AIR FAN SMOKE DAMPER TEMPERATURE TRAI TYPICAL	NSMITTER	

EQUIPMENT TAG XX - DEVICE TYPE YY - DEVICE NUMBER

XX YY

XX YY

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<u>BAS DEVICE</u> XX - DEVICE TYPE YY - DEVICE NUMBER

NON-BAS DEVICE XX - DEVICE TYPE YY - DEVICE NUMBER

LOCAL HARD WIRED CONNECTION

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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER:		PROFESSIONAL

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ACCOUNTABLE MANAGER JUSTIN RIVELLINO PORTFOLIO MANAGER LAUREN D'ATTILE, PE DEPUTY DIRECTOR, IN HOUSE DESIGN MICHAEL LOEHR, PE

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	BID SET DATE ISSUED: 04/2023	GRAPHIC SCALES CHECK BEFORE USE IF SHEET IS LESS THAN 22" > IT IS A REDUCED PRINT. SCALE ACCORDINGLY	(34"	VERTICAL DATUM CONVERSION (ft) +1.28 BWS 0 NAVD88
TION RUCTION FLOOR	CONTRACT KENS-E KENSICO SITE PREPA HVAC ELECTRICAL BUIL CONTROLS SYMBOLS AND A	CAST-2 RATION DING BBREVIATIONS	DATE: SCALE: SHEET Page DRAV	APRIL 2023 AS NOTED NO: 441 of 536 WING NO. B-H-901.00

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	Environmental Protection BEDC/IHD	GRAPHIC SCALES CHECK BEFORE USE		VERTICAL DATUM CONVERSION (ft)	
	BID SET DATE ISSUED: 04/2023	IF SHEET IS LESS THAN 22" 2 IT IS A REDUCED PRINT. SCALE ACCORDINGLY	X 34"	1 +1.28 BWS 0 NAVD88	
	CONTRACT KENS-F	EAST-2	DATE:	APRIL 2023	
CTION TRUCTION	KENSICO SITE PREPA	RATION	SHEET NO: Page 442 of 536		
FLOOR	ELECTRICAL BUIL	DING AMS 1	DRA KSE	wing no. B-H-902.00	

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	BID SET DATE ISSUED: 04/2023	IF SHEET IS LESS THAN 22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY	〈 34"	0 NAVD88
TION RUCTION FLOOR	CONTRACT KENS-EAST-2 KENSICO SITE PREPARATION HVAC ELECTRICAL BUILDING CONTROLS DIAGRAMS 2		DATE: APRIL 2023 SCALE: AS NOTED SHEET NO: Page 443 of 536 DRAWING NO	
			KSEB-H-903.00	

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1. THERMOSTAT INTEGRAL TO UNIT HEATER

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ACCOUNTABLE MANAGER JUSTIN RIVELLINO PORTFOLIO MANAGER LAUREN D'ATTILE, PE DEPUTY DIRECTOR, IN HOUSE DESIGN MICHAEL LOEHR, PE

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S-1	ALARM SILENCE	PUSHBUTTON
S-2	SYSTEM RESET	PUSHBUTTON
S-3	E-STOP	MUSHROOM PUSHBUTTON
[
NAM	EPLATE AND PILOT DEVICE S	CHEDULE
NAMEPLATE ID	ENGRAVING	DEVICE TYPE
А	UNIT SUBSTATION ROOM HVAC SYSTEM	NAMEPLATE
A-1	EAF-1	NAMEPLATE
A-2	START	PUSHBUTTON
A-3	MANUAL/AUTO	SELECTOR SWITCH
A-4	STOP	PUSHBUTTON
A-5	READY (GREEN)	INDICATION LIGHTS
A-6	RUNNING (RED)	INDICATION LIGHTS
A-7	DAMPER OPEN (RED)	INDICATION LIGHTS
A-8	EAF-2	NAMEPLATE
A-9	START	PUSHBUTTON
A-10	MANUAL/AUTO	SELECTOR SWITCH
A-11	STOP	PUSHBUTTON
A-12	READY (GREEN)	INDICATION LIGHTS
A-13	RUNNING (RED)	INDICATION LIGHTS
A-14	DAMPER OPEN (RED)	INDICATION LIGHTS
A-15	SAF-1	NAMEPLATE
A-16	START	PUSHBUTTON
A-17	MANUAL/AUTO	SELECTOR SWITCH
A-18	STOP	PUSHBUTTON
A-19	READY (GREEN)	INDICATION LIGHTS
A-20	RUNNING (RED)	INDICATION LIGHTS
A-21	DAMPER OPEN (RED)	INDICATION LIGHTS
A-22	SAF-2	NAMEPLATE
A-23	START	PUSHBUTTON
A-24	MANUAL/AUTO	SELECTOR SWITCH
A-25	STOP	PUSHBUTTON
A-26	READY (GREEN)	INDICATION LIGHTS
A-27	RUNNING (RED)	INDICATION LIGHTS
A-28	DAMPER OPEN (RED)	INDICATION LIGHTS
A-29	RTU-1	NAMEPLATE
A-30	START	PUSHBUTTON
A-31	MANUAL/AUTO	SELECTOR SWITCH
A-32	STOP	PUSHBUTTON
A-33	READY (GREEN)	INDICATION LIGHTS
A-34	RUNNING (RED)	INDICATION LIGHTS
A-35	SUPPLY DAMPER OPEN (RED)	INDICATION LIGHTS
A-36	RETURN DAMPER OPEN (RED)	INDICATION LIGHTS
A-37	MD-01 DAMPER OPEN (RED)	INDICATION LIGHTS
A-38	MD-02 DAMPER OPEN (RED)	INDICATION LIGHTS

NAMEPLATE AND PILOT DEVICE SCHEDULE

DEVICE TYPE

NAMEPLATE ID ENGRAVING

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	<u>NO</u>	TES:			
	1.	PROVIDE NAMEPLATE FO SOURCES OF POWER. T BACKGROUND, WHITE LI THIS DEVICE IS CONNEC TYPICAL FOR ALL PANEL	OR EVERY PANEL WITH HE NAMEPLATE SHALL ETTERS AND IT SHALL I TED TO MULTIPLE SOU S WITH MULTIPLE POV	MULTIPLE BE RED READ: "WARNING- IRCES OF POWER". /ER SOURCES.	
	2.	ALL START/STOP OR OP ILLUMINATED LED FLUSH LIGHTS SHALL BE LED, P	EN/CLOSE PUSHBUTTC 1-GUARDED SERIES. AL 2USH-TO-TEST.	NS SHALL BE .L INDICATOR	A
	3.	 PILOT DEVICES COLOR (A. START PUSHBUTTO) B. STOP PUSHBUTTO C. VALVE/DAMPER OF LIGHT - RED D. VALVE/DAMPER CLIGHT - RED E. ALARM OR FAULT - F. TEST OR SILENCE G. EMERGENCY STOF H. MUSHROOM PUSH 	CODE: ON AND RUN INDICATO N AND OFF INDICATOR PEN PUSHBUTTON AND OSE PUSHBUTTON AN AMBER PUSHBUTTON - BLACK MOMENTARY BUTTON - YELLOW	R LIGHT - RED LIGHT - GREEN INDICATOR D INDICATOR	
	4.	REFER TO ELECTRICAL E DIAGRAMS	3UILDING HVAC SYSTE	M CONTROL	В
	5.	PANEL LOCATED INSIDE RATED	ELECTRICAL BUILDING	SHALL BE NEMA 1	
	6.	PROVIDE EQUIPMENT NU OPERATING CONTROL A IDENTIFICATION FOR HV	JMBER AND TAG UNDE S PER SPECIFICATION AC PIPING AND EQUIPM	R EACH 23 05 53 - /IENT.	_
	7.	120VAC POWER TO CON DIVISION 26. ALL OTHER CONDUIT FROM CONTRO SUCH AS THERMOSTATS SWITCHES, ETC., SHALL GENERAL NOTES.	TROL PANEL SHALL BE CONTROL AND POWE DL PANEL TO ALL REMC DAMPER ACTUATORS BE PROVIDED UNDER	PROVIDED BY R WIRING AND DTE DEVICES, S, SENSORS, DIVISION 23.	с
	8.	INTEGRATION OF CONTR APPLICABLE, TO BE COC	ROL PANEL I/O POINTS RDINATED AT 100% DE	TO SCADA, IF SIGN.	

NAMEPLATE AND PILOT DEVICE SCHEDULE					
NAMEPLATE ID	ENGRAVING	DEVICE TYPE			
В	UNIT SUBSTATION ROOM HVAC SYSTEM ALARMS	NAMEPLATE			
B-1	EAF-1 FAULT (AMBER)	INDICATION LIGHTS			
B-2	EAF-1 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS			
B-3	EAF-2 FAULT (AMBER)	INDICATION LIGHTS			
B-4	EAF-2 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS			
B-5	SAF-1 FAULT (AMBER)	INDICATION LIGHTS			
B-6	SAF-1 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS			
B-7	SAF-2 FAULT (AMBER)	INDICATION LIGHTS			
B-8	SAF-2 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS			
B-9	RTU-1 FAULT (AMBER)	INDICATION LIGHTS			

NAI	NAMEPLATE AND PILOT DEVICE SCHEDULE					
NAMEPLATE ID	ENGRAVING	DEVICE TYPE				
С	SMOKE ALARMS	NAMEPLATE				
C-1	SMOKE DETECTOR ALARM (AMBER)	INDICATION LIGHTS				

ĺ	Protection BEDC/IHD	GRAPHIC SCALES CHECK BEFORE USE		VERTICAL DATUM CONVERSION (ft)	
	BID SET DATE ISSUED: 04/2023	IF SHEET IS LESS THAN 22" > IT IS A REDUCED PRINT. SCALE ACCORDINGLY	〈 34"	+1.28 BWS	
	CONTRACT VENS E	AST 2	DATE: A	APRIL 2023	
	KENSICO SITE PREPARATION			SCALE: AS NOTED	
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UCTION				445 of 536	
LOOR	HVAC ELECTRICAL BUILDING CONTROLS DETAILS 1		DRAWING NO.		
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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER:		PROFESSIONAL E	P



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ELECTRICAL BUILDING HVAC SYSTEMS CONTROL

PANEL EB-HLCP-02

A-29

- ALARM HORN/STROBE

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NAMEPLATE AND PILOT DEVICE SCHEDULE						
NAMEPLATE ID	ENGRAVING	DEVICE TYPE				
S-1	ALARM SILENCE	PUSHBUTTON				
S-2	SYSTEM RESET	PUSHBUTTON				
S-3	E-STOP	MUSHROOM PUSHBUTTON				
NAM	NAMEPLATE AND PILOT DEVICE SCHEDULE					
NAMEPLATE ID	ENGRAVING					
A	MV SWITCHGEAR ROOM HVAC SYSTEM	1 NAMEPLATE				
A-1	EAF-3	NAMEPLATE				
A-2	START	PUSHBUTTON				
A-3	MANUAL/AUTO	SELECTOR SWITCH				
A-4	STOP	PUSHBUTTON				
A-5	READY (GREEN)	INDICATION LIGHTS				
A-6	RUNNING (RED)	INDICATION LIGHTS				
A-7	DAMPER OPEN (RED)	INDICATION LIGHTS				
A-8	EAF-4	NAMEPLATE				
A-9	START	PUSHBUTTON				
A-10	MANUAL/AUTO	SELECTOR SWITCH				
A-11	STOP	PUSHBUTTON				
A-12	READY (GREEN)	INDICATION LIGHTS				
A-13	RUNNING (RED)	INDICATION LIGHTS				
A-14	DAMPER OPEN (RED)	INDICATION LIGHTS				
A-15	SAF-3	NAMEPLATE				
A-16	START	PUSHBUTTON				
A-17	MANUAL/AUTO	SELECTOR SWITCH				
A-18	STOP	PUSHBUTTON				
A-19	READY (GREEN)	INDICATION LIGHTS				
A-20	RUNNING (RED)	INDICATION LIGHTS				
A-21	DAMPER OPEN (RED)	INDICATION LIGHTS				
A-22	SAF-4	NAMEPLATE				
A-23	START	PUSHBUTTON				
A-24	MANUAL/AUTO	SELECTOR SWITCH				
A-25	STOP	PUSHBUTTON				
A-26	READY (GREEN)	INDICATION LIGHTS				
A-27	RUNNING (RED)	INDICATION LIGHTS				
A-28	DAMPER OPEN (RED)	INDICATION LIGHTS				
A-29	RTU-2	NAMEPLATE				
A-30	START	PUSHBUTTON				
A-31	MANUAL/AUTO	SELECTOR SWITCH				
A-32	STOP	PUSHBUTTON				
A-33	READY (GREEN)	INDICATION LIGHTS				
A-34	RUNNING (RED)	INDICATION LIGHTS				
A-35	SUPPLY DAMPER OPEN (RED)	INDICATION LIGHTS				
A-36	RETURN DAMPER OPEN (RED)	INDICATION LIGHTS				
A-37	MD-01 DAMPER OPEN (RED)	INDICATION LIGHTS				
A-38	MD-02 DAMPER OPEN (RED)	INDICATION LIGHTS				
A-39	HEATING	NAMEPLATE				
A-40	EUH HEATING ON (RED)	INDICATION LIGHTS				



ACCOUNTABLE MANAGER JUSTIN RIVELLINO PORTFOLIO MANAGER LAUREN D'ATTILE, PE DEPUTY DIRECTOR, IN HOUSE DESIGN MICHAEL LOEHR, PE

"WARNING-IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2."

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NOTES:	
1. PROVIDE NAMEPLATE FOR EVERY PANEL WITH MULTIPLE SOURCES OF POWER. THE NAMEPLATE SHALL BE RED BACKGROUND, WHITE LETTERS AND IT SHALL READ: "WARNING- THIS DEVICE IS CONNECTED TO MULTIPLE SOURCES OF POWER" TYPICAL FOR ALL PANELS WITH MULTIPLE POWER SOURCES.	
2. ALL START/STOP OR OPEN/CLOSE PUSHBUTTONS SHALL BE ILLUMINATED LED FLUSH-GUARDED SERIES. ALL INDICATOR LIGHTS SHALL BE LED, PUSH-TO-TEST.	
 PILOT DEVICES COLOR CODE: A. START PUSHBUTTON AND RUN INDICATOR LIGHT - RED B. STOP PUSHBUTTON AND OFF INDICATOR LIGHT - GREEN C. VALVE/DAMPER OPEN PUSHBUTTON AND INDICATOR 	
LIGHT - RED D. VALVE/DAMPER CLOSE PUSHBUTTON AND INDICATOR LIGHT - RED E. ALARM OR FAULT - AMBER F. TEST OR SILENCE PUSHBUTTON - BLACK G. EMERGENCY STOP MOMENTARY H. MUSHROOM PUSHBUTTON - YELLOW	
4. REFER TO ELECTRICAL BUILDING HVAC SYSTEM CONTROL DIAGRAMS	В
5. PANEL LOCATED INSIDE ELECTRICAL BUILDING SHALL BE NEMA 1 RATED	
6. PROVIDE EQUIPMENT NUMBER AND TAG UNDER EACH OPERATING CONTROL AS PER SPECIFICATION 23 05 53 - IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT.	
 120VAC POWER TO CONTROL PANEL SHALL BE PROVIDED BY DIVISION 26. ALL OTHER CONTROL AND POWER WIRING AND CONDUIT FROM CONTROL PANEL TO ALL REMOTE DEVICES, SUCH AS THERMOSTATS, DAMPER ACTUATORS, SENSORS, SWITCHES, ETC., SHALL BE PROVIDED UNDER DIVISION 23. GENERAL NOTES. 	с
8. INTEGRATION OF CONTROL PANEL I/O POINTS TO SCADA, IF APPLICABLE, TO BE COORDINATED AT 100% DESIGN.	

NAM	NAMEPLATE AND PILOT DEVICE SCHEDULE				
NAMEPLATE ID	ENGRAVING	DEVICE TYPE			
В	MV SWITCHGEAR ROOM HVAC SYSTEM ALARMS	NAMEPLATE			
B-1	EAF-3 FAULT (AMBER)	INDICATION LIGHTS			
B-2	EAF-3 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS			
B-3	EAF-4 FAULT (AMBER)	INDICATION LIGHTS			
B-4	EAF-4 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS			
B-5	SAF-3 FAULT (AMBER)	INDICATION LIGHTS			
B-6	SAF-3 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS			
B-7	SAF-4 FAULT (AMBER)	INDICATION LIGHTS			
B-8	SAF-4 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS			
B-9	RTU-2 FAULT (AMBER)	INDICATION LIGHTS			
B-10	EUH OVER TEMPERATURE (AMBER)	INDICATION LIGHTS			

NAMEPLATE AND PILOT DEVICE SCHEDULE			
ENGRAVING	DEVICE TYPE		
SMOKE ALARMS	NAMEPLATE		
SMOKE DETECTOR ALARM (AMBER)	INDICATION LIGHTS		
	EPLATE AND PILOT DEVICE SCHE ENGRAVING SMOKE ALARMS SMOKE DETECTOR ALARM (AMBER)		

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'ION	KENSICO SITE I KEI AKATION		SHEET NO:		
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NAMEPLATE AND PILOT DEVICE SCHEDULE

I, AND CONTROL TO FIELD DEVICES	
IAL OVERLOAD FAULT, MOTOR RUNNING IS (BY DIVISION 26)	G,

ACCOUNTABLE MANAGER JUSTIN RIVELLINO PORTFOLIO MANAGER LAUREN D'ATTILE, PE DEPUTY DIRECTOR, IN HOUSE DESIGN MICHAEL LOEHR, PE

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NAMEPLATE ID	ENGRAVING	DEVICE TYPE			
S-1	ALARM SILENCE	PUSHBUTTON			
S-2	SYSTEM RESET	PUSHBUTTON			
S-3	E-STOP	MUSHROOM PUSHBUTTON			
NAMEPLATE AND PILOT DEVICE SCHEDULE					
NAMEPLATE ID	ENGRAVING	DEVICE TYPE			
A	BATTERY ROOM HVAC SYSTEM	NAMEPLATE			
A-1	EAF-7	NAMEPLATE			
A-2	START	PUSHBUTTON			
A-3	MANUAL/AUTO	SELECTOR SWITCH			
A-4	STOP	PUSHBUTTON			
A-5	READY (GREEN)	INDICATION LIGHTS			
A-6	RUNNING (RED)	INDICATION LIGHTS			
A-7	EAF-8	NAMEPLATE			
A-8	START	PUSHBUTTON			
A-9	MANUAL/AUTO	SELECTOR SWITCH			
A-10	STOP	PUSHBUTTON			
A-11	READY (GREEN)	INDICATION LIGHTS			
A-12	RUNNING (RED)	INDICATION LIGHTS			
A-13	DAMPERS	NAMEPLATE			
A-14	MD-19 INTAKE DAMPER OPEN	PUSHBUTTON			
A-15	MD-19 INTAKE DAMPER MANUAL/AUTO	SELECTOR SWITCH			
A-16	MD-19 INTAKE DAMPER CLOSE	PUSHBUTTON			
A-17	MD-19 INTAKE DAMPER OPEN (RED)	INDICATION LIGHTS			
A-18	MD-20 EXHAUST DAMPER OPEN (RED)	INDICATION LIGHTS			
A-19	RTU-3	NAMEPLATE			
A-20	START	PUSHBUTTON			
A-21	MANUAL/AUTO	SELECTOR SWITCH			
A-22	STOP	PUSHBUTTON			
A-23	READY (GREEN)	INDICATION LIGHTS			
A-24	RUNNING (RED)	INDICATION LIGHTS			
A-25	SUPPLY DAMPER OPEN (RED)	INDICATION LIGHTS			
A-26	RETURN DAMPER OPEN (RED)	INDICATION LIGHTS			
A-27	RTU-4	NAMEPLATE			
A-28	START	PUSHBUTTON			
A-29	MANUAL/AUTO	SELECTOR SWITCH			
A-30	STOP	PUSHBUTTON			
A-31	READY (GREEN)	INDICATION LIGHTS			
A-32	RUNNING (RED)	INDICATION LIGHTS			
A-33	SUPPLY DAMPER OPEN (RED)	INDICATION LIGHTS			
A-34	RETURN DAMPER OPEN (RED)	INDICATION LIGHTS			
A-35	HEATING	NAMEPLATE			
A-36	EUH HEATING ON (RED)	INDICATION LIGHTS			

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	NOTE	<u>ES:</u>		
	1. PI SC B/ TI TY	ROVIDE NAMEPLATE FOR EVE OURCES OF POWER. THE NAI ACKGROUND, WHITE LETTER HIS DEVICE IS CONNECTED T YPICAL FOR ALL PANELS WIT	ERY PANEL WITH MULTIPLE MEPLATE SHALL BE RED S AND IT SHALL READ: "WARNI O MULTIPLE SOURCES OF POV H MULTIPLE POWER SOURCES	NG- VER". S.
-	2. Al IL Ll	L START/STOP OR OPEN/CLO LUMINATED LED FLUSH-GUAR GHTS SHALL BE LED, PUSH-T	OSE PUSHBUTTONS SHALL BE RDED SERIES. ALL INDICATOR O-TEST.	
	3. PI A. B. C. D. E. F. G. H.	LOT DEVICES COLOR CODE: START PUSHBUTTON AND STOP PUSHBUTTON AND VALVE/DAMPER OPEN PU LIGHT - RED VALVE/DAMPER CLOSE F LIGHT - RED ALARM OR FAULT - AMBE TEST OR SILENCE PUSHE EMERGENCY STOP MOM MUSHROOM PUSHBUTTC	D RUN INDICATOR LIGHT - RED OFF INDICATOR LIGHT - GREE JSHBUTTON AND INDICATOR PUSHBUTTON AND INDICATOR ER BUTTON - BLACK ENTARY ON - YELLOW	.N
-	4. RI Di	EFER TO ELECTRICAL BUILDI IAGRAMS	NG HVAC SYSTEM CONTROL	В
-	5. P/ R/	ANEL LOCATED INSIDE ELECT	TRICAL BUILDING SHALL BE NE	MA 1
	6. PI O ID	ROVIDE EQUIPMENT NUMBER PERATING CONTROL AS PER ENTIFICATION FOR HVAC PIF	R AND TAG UNDER EACH SPECIFICATION 23 05 53 - PING AND EQUIPMENT.	
	7. 12 DI C(SI SI G	20VAC POWER TO CONTROL I VISION 26. ALL OTHER CONT ONDUIT FROM CONTROL PAN UCH AS THERMOSTATS, DAM WITCHES, ETC., SHALL BE PR ENERAL NOTES.	PANEL SHALL BE PROVIDED BY ROL AND POWER WIRING AND IEL TO ALL REMOTE DEVICES, PER ACTUATORS, SENSORS, ROVIDED UNDER DIVISION 23.	C
	8. IN Al	TEGRATION OF CONTROL PA PPLICABLE, TO BE COORDINA	ANEL I/O POINTS TO SCADA, IF ATED AT 100% DESIGN.	

NAMEPLATE AND PILOT DEVICE SCHEDULE			
NAMEPLATE ID	ENGRAVING	DEVICE TYPE	
В	BATTERY ROOM HVAC SYSTEM ALARMS	NAMEPLATE	
B-1	EAF-7 FAULT (AMBER)	INDICATION LIGHTS	
B-2	EAF-7 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS	
B-3	EAF-8 FAULT (AMBER)	INDICATION LIGHTS	
B-4	EAF-8 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS	
B-5	RTU-3 FAULT (AMBER)	INDICATION LIGHTS	
B-6	RTU-4 FAULT (AMBER)	INDICATION LIGHTS	
B-7	EUH OVER TEMPERATURE (AMBER)	INDICATION LIGHTS	

NAMEPLATE AND PILOT DEVICE SCHEDULE			
NAMEPLATE ID	ENGRAVING	DEVICE TYPE	
С	SMOKE ALARMS	NAMEPLATE	
C-1	SMOKE DETECTOR ALARM (AMBER)	INDICATION LIGHTS	

	Environmental Protection BEDC/IHD	GRAPHIC SCALES CHECK BEFORE USE		VERTICAL DATUM CONVERSION (ft)	
BID SET DATE ISSUED: 04/2023		IF SHEET IS LESS THAN 22" X 34" IT IS A REDUCED PRINT. SCALE ACCORDINGLY		+1.28 BWS 0 NAVD88	
	CONTRACT KENS-EAST-2		DATE: APRIL 2023		
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	HVAC				
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All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

DEEPAK KANDRA, PE

SECTION MANAGER:

DESIGN LEAD:

APPR'D.

REVISIONS/DESCRIPTION

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				NOTES:	
				1. PROVIDE NAMEPLATE FOR EVERY SOURCES OF POWER THE NAMEE	PANEL WITH MULTIPLE
NAN	MEPLATE AND PILOT DEVICE S	SCHEDULE		BACKGROUND, WHITE LETTERS AI	ND IT SHALL READ: "WARNING-
NAMEPLATE ID	ENGRAVING	DEVICE TYPE		TYPICAL FOR ALL PANELS WITH M	ULTIPLE SOURCES OF POWER". ULTIPLE POWER SOURCES.
S-1	ALARM SILENCE	PUSHBUTTON		2 ALL START/STOP OR OPEN/CLOSE	PUSHBUTTONS SHALL BE
S-2	SYSTEM RESET	PUSHBUTTON		ILLUMINATED LED FLUSH-GUARDE	D SERIES. ALL INDICATOR
S-3	E-STOP	MUSHROOM PUSHBUTTON		LIGHTS SHALL BE LED, PUSH-TO-T	EST.
				3. PILOT DEVICES COLOR CODE:	
NAN	MEPLATE AND PILOT DEVICE S	SCHEDULE		B. STOP PUSHBUTTON AND OF	F INDICATOR LIGHT - RED
NAMEPLATE ID	ENGRAVING	DEVICE TYPE		C. VALVE/DAMPER OPEN PUSH	BUTTON AND INDICATOR
A	COMMUNICATIONS ROOM HVAC SYSTEM	NAMEPLATE		D. VALVE/DAMPER CLOSE PUSH	BUTTON AND INDICATOR
A-1	EAF-6	NAMEPLATE		E. ALARM OR FAULT - AMBER	
A-2	START	PUSHBUTTON		F. TEST OR SILENCE PUSHBUT	TON - BLACK
A-3	MANUAL/AUTO	SELECTOR SWITCH		H. MUSHROOM PUSHBUTTON -	YELLOW
A-4	STOP	PUSHBUTTON		4. REFER TO ELECTRICAL BUILDING	HVAC SYSTEM CONTROL
A-5	READY (GREEN)	INDICATION LIGHTS		DIAGRAMS	
A-6	RUNNING (RED)	INDICATION LIGHTS		5. PANEL LOCATED INSIDE ELECTRIC	AL BUILDING SHALL BE NEMA 1
A-7	DAMPER OPEN (RED)	INDICATION LIGHTS		RATED	
A-8	INTAKE	NAMEPLATE		6. PROVIDE EQUIPMENT NUMBER AN	D TAG UNDER EACH
A-9	MD-13 INTAKE DAMPER OPEN	PUSHBUTTON		IDENTIFICATION FOR HVAC PIPING	AND EQUIPMENT.
A-10	MD-13 INTAKE DAMPER MANUAL/AUTO	SELECTOR SWITCH			
A-11	MD-13 INTAKE DAMPER CLOSE	PUSHBUTTON		DIVISION 26. ALL OTHER CONTROL	AND POWER WIRING AND
A-12	MD-13 INTAKE DAMPER OPEN (RED)	INDICATION LIGHTS		CONDUIT FROM CONTROL PANEL SUCH AS THERMOSTATS, DAMPER	TO ALL REMOTE DEVICES, ACTUATORS, SENSORS,
A-13	COOLING	NAMEPLATE		SWITCHES, ETC., SHALL BE PROVI	DED UNDER DIVISION 23.
A-14	ACU-2 COOLING ON (RED)	INDICATION LIGHTS		GENERAL NOTES.	
A-15	ALARMS	NAMEPLATE		 INTEGRATION OF CONTROL PANEL APPLICABLE. TO BE COORDINATEL 	LI/O POINTS TO SCADA, IF
A-16	EAF-6 FAULT (AMBER)	INDICATION LIGHTS			
A-17	EAF-6 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS			
A-18	ACU-2 FAULT (AMBER)	INDICATION LIGHTS		ENGRAVING	
A-19	ACU-2 LEAK DETECTION (AMBER)	INDICATION LIGHTS	0	FIRE SUPPRESSION ROOM HV SYSTEM	
A-20	ACCU-2 FAULT (AMBER)	INDICATION LIGHTS	C-1	EAF-9	
[0.2		
NAN	MEPLATE AND PILOT DEVICE S	SCHEDULE	C-3	MANUAL/AUTO	
NAMEPLATE ID	ENGRAVING	DEVICE TYPE	C-4		
В	SECURITY ROOM HVAC SYSTEM	NAMEPLATE	C-5		
B-1	EAF-5	NAMEPLATE	C-0		
B-2	START	PUSHBUTTON	C-8		
B-3	MANUAL/AUTO	SELECTOR SWITCH	C-9		
B-4	STOP	PUSHBUTTON	C-10		
B-5	READY (GREEN)	INDICATION LIGHTS	C-11	MD-22 INTAKE DAMPER CLOSE	
B-6	RUNNING (RED)	INDICATION LIGHTS	C-12		
B-7	DAMPER OPEN (RED)	INDICATION LIGHTS	C-13	HEATING	
B-8	INTAKE	NAMEPLATE	C-14	EUH-2 HEATING ON (RED)	INDICATION LIGHTS
B-9	MD-11 INTAKE DAMPER OPEN	PUSHBUTTON	C-15	ALARMS	NAMEPLATE
B-10	MD-11 INTAKE DAMPER MANUAL/AUTO	SELECTOR SWITCH	C-16	EAF-9 FAULT (AMBER)	INDICATION LIGHTS
B-11	MD-11 INTAKE DAMPER CLOSE	PUSHBUTTON	C-17	EAF-9 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS
B-12	MD-11 INTAKE DAMPER OPEN (RED)	INDICATION LIGHTS	C-18	EUH OVER TEMPERATURE (AMBER)	INDICATION LIGHTS
B-13	COOLING	NAMEPLATE			
B-14	ACU-1 COOLING ON (RED)	INDICATION LIGHTS	ΝΙΔΝ		
B-15	ALARMS	NAMEPLATE			
B-16	EAF-5 FAULT (AMBER)	INDICATION LIGHTS			
B-17	EAF-5 AIRFLOW LOSS (AMBER)				
B-18				DETECTOR ALARM (AMBER)	

	6 7		8	9	10			
				NOTES				
[1. PROVIDE NAMEPLATE FOR EVERY SOURCES OF POWER. THE NAMEP	PANEL WITH MULTIPLE LATE SHALL BE RED			
NAM	IEPLATE AND PILOT DEVICE S	SCHEDULE		BACKGROUND, WHITE LETTERS AI THIS DEVICE IS CONNECTED TO M	ND IT SHALL READ: "WARNING- ULTIPLE SOURCES OF POWER".			
NAMEPLATE ID	ENGRAVING	DEVICE TYPE		TYPICAL FOR ALL PANELS WITH M	ULTIPLE POWER SOURCES.			
S-1	ALARM SILENCE	PUSHBUTTON		2. ALL START/STOP OR OPEN/CLOSE	PUSHBUTTONS SHALL BE			
S-2	SYSTEM RESET	PUSHBUTTON		ILLUMINATED LED FLUSH-GUARDE	D SERIES. ALL INDICATOR			
S-3	E-STOP	MUSHROOM PUSHBUTTON						
				A. START PUSHBUTTON AND RU	JN INDICATOR LIGHT - RED			
NAM	IEPLATE AND PILOT DEVICE S	SCHEDULE		B. STOP PUSHBUTTON AND OF	F INDICATOR LIGHT - GREEN			
NAMEPLATE ID	ENGRAVING	DEVICE TYPE		 D. VALVE/DAMPER CLOSE PUSHBUTTON AND INDICATOR LIGHT - RED E. ALARM OR FAULT - AMBER E. TEST OR SILENCE PUSHBUTTON - BLACK 				
A	COMMUNICATIONS ROOM HVAC SYSTEM	NAMEPLATE						
A-1	EAF-6	NAMEPLATE						
A-2	START	PUSHBUTTON		G. EMERGENCY STOP MOMENTARY H. MUSHROOM PUSHBUTTON - YELLOW				
A-3	MANUAL/AUTO	SELECTOR SWITCH						
A-4	STOP	PUSHBUTTON		4. REFER TO ELECTRICAL BUILDING	HVAC SYSTEM CONTROL			
A-5	READY (GREEN)	INDICATION LIGHTS		DIAGRAMIS				
A-6	RUNNING (RED)	INDICATION LIGHTS		5. PANEL LOCATED INSIDE ELECTRIC RATED	AL BUILDING SHALL BE NEMA 1			
A-7								
A-8		NAMEPLATE		6. PROVIDE EQUIPMENT NUMBER AN OPERATING CONTROL AS PER SPE	ECIFICATION 23 05 53 -			
A-9		PUSHBUTTON		IDENTIFICATION FOR HVAC PIPING	AND EQUIPMENT.			
A-10	MD-13 INTAKE DAMPER MANUAL/AUTO	SELECTOR SWITCH		7. 120VAC POWER TO CONTROL PAN	EL SHALL BE PROVIDED BY			
A-11		PUSHBUITON		CONDUIT FROM CONTROL PANEL	TO ALL REMOTE DEVICES,			
A-12			SUCH AS THERMOSTATS, DAMPER ACTUATORS, SENSORS,					
A-13				GENERAL NOTES.	DED ONDER DIVISION 23.			
A-14				8. INTEGRATION OF CONTROL PANEL	. I/O POINTS TO SCADA, IF			
A-15				APPLICABLE, TO BE COORDINATED	DAT 100% DESIGN.			
A-10 A-17	EAF-6 AIRELOW LOSS (AMBER)		NAMEPLATE AND PILOT DEVICE SCHEDULE					
A-18	ACU-2 FAULT (AMBER)	INDICATION LIGHTS	NAMEPLATE ID	ENGRAVING	DEVICE TYPE			
A-19	ACU-2 LEAK DETECTION (AMBER)	INDICATION LIGHTS	С	FIRE SUPPRESSION ROOM HV SYSTEM	NAMEPLATE			
A-20	ACCU-2 FAULT (AMBER)	INDICATION LIGHTS	C-1	EAF-9	NAMEPLATE			
			C-2	START	PUSHBUTTON			
NAM	IEPLATE AND PILOT DEVICE S	SCHEDULE	C-3	MANUAL/AUTO	SELECTOR SWITCH			
	ENGRAVING		C-4	STOP	PUSHBUTTON			
В	SECURITY ROOM HVAC SYSTEM	NAMEPLATE	C-5	READY (GREEN)	INDICATION LIGHTS			
B-1	EAF-5	NAMEPLATE	C-6	RUNNING (RED)	INDICATION LIGHTS			
B-2	START	PUSHBUTTON	C-7	DAMPER OPEN (RED)	INDICATION LIGHTS			
B-3	MANUAL/AUTO	SELECTOR SWITCH	C-8	INTAKE	NAMEPLATE			
B-4	STOP	PUSHBUTTON	C-9	MD-22 INTAKE DAMPER OPEN	PUSHBUTTON			
B-5	READY (GREEN)	INDICATION LIGHTS	C-10	MD-22 INTAKE DAMPER MANUAL/AUTO	SELECTOR SWITCH			
B-6	RUNNING (RED)	INDICATION LIGHTS	C-11	MD-22 INTAKE DAMPER CLOSE	PUSHBUTTON			
B-7	DAMPER OPEN (RED)	INDICATION LIGHTS	C-12	MD-22 INTAKE DAMPER OPEN (RED)				
B-8	INTAKE	NAMEPLATE	C-13					
B-9	MD-11 INTAKE DAMPER OPEN	PUSHBUTTON	C-14	EUH-2 HEATING ON (RED)				
B-10	MD-11 INTAKE DAMPER MANUAL/AUTO	SELECTOR SWITCH	C 16					
B-11	MD-11 INTAKE DAMPER CLOSE	PUSHBUTTON	C-10					
B-12	MD-11 INTAKE DAMPER OPEN (RED)	INDICATION LIGHTS	C 18	EUH OVER TEMPERATURE (AMBER)				
B-13	COOLING	NAMEPLATE	0-10					
B-14	ACU-1 COOLING ON (RED)	INDICATION LIGHTS						
B-15	ALARMS	NAMEPLATE						
B-16	EAF-5 FAULT (AMBER)	INDICATION LIGHTS						
B-17	EAF-5 AIRFLOW LOSS (AMBER)							
B-18	ACU-1 FAULI (AMBER)			DETECTOR ALARM (AMBER)				

	6 7		8		9	10	
				NC)TES:		1
NAM	IEPLATE AND PILOT DEVICE S	SCHEDULE		1.	PROVIDE NAMEPLATE FOR EVERY SOURCES OF POWER. THE NAME BACKGROUND, WHITE LETTERS A	Y PANEL WITH MULTIPLE PLATE SHALL BE RED ND IT SHALL READ: "WARNING-	
NAMEPLATE ID	ENGRAVING	DEVICE TYPE			TYPICAL FOR ALL PANELS WITH N	IULTIPLE POWER SOURCES.	
S-1	ALARM SILENCE	PUSHBUTTON		2.	ALL START/STOP OR OPEN/CLOSE	E PUSHBUTTONS SHALL BE	ļ A
S-2	SYSTEM RESET	PUSHBUTTON			ILLUMINATED LED FLUSH-GUARDE	ED SERIES. ALL INDICATOR	
S-3	E-STOP	MUSHROOM PUSHBUTTON			LIGHTS SHALL DE LED, PUSH-TU-T	EST.	
NAN NAMEPLATE ID	1EPLATE AND PILOT DEVICE S	CHEDULE DEVICE TYPE		3.	 PILOT DEVICES COLOR CODE: A. START PUSHBUTTON AND R B. STOP PUSHBUTTON AND OF C. VALVE/DAMPER OPEN PUSH LIGHT - RED 	UN INDICATOR LIGHT - RED F INDICATOR LIGHT - GREEN IBUTTON AND INDICATOR	
A	COMMUNICATIONS ROOM HVAC SYSTEM	NAMEPLATE			LIGHT - RED	NDUITON AND INDICATOR	
A-1	EAF-6	NAMEPLATE			 E. ALARM OR FAULT - AMBER F. TEST OR SILENCE PUSHBUT 	TON - BLACK	
A-2	START	PUSHBUTTON			G. EMERGENCY STOP MOMEN	TARY	
A-3	MANUAL/AUTO	SELECTOR SWITCH			H. MUSHROOM PUSHBUTTON -	YELLOW	I F
A-4		PUSHBUITON		4.	REFER TO ELECTRICAL BUILDING	HVAC SYSTEM CONTROL	
A-5	READY (GREEN)			-			
A-6				5.	RATED	CAL BUILDING SHALL BE NEMA 1	
A-7	DAMPER OPEN (RED)			6			
A-0				0.	OPERATING CONTROL AS PER SP	ECIFICATION 23 05 53 -	
A-9 A 10					IDENTIFICATION FOR HVAC PIPING	G AND EQUIPMENT.	
A-10	MD 12 INTAKE DAMPER MANUAL/AUTO			7.		NEL SHALL BE PROVIDED BY	
Δ_12					CONDUIT FROM CONTROL PANEL	TO ALL REMOTE DEVICES,	
Δ-12	COOLING				SUCH AS THERMOSTATS, DAMPER SWITCHES, ETC., SHALL BE PROV	R ACTUATORS, SENSORS, IDED UNDER DIVISION 23.	
Δ_14	ACU-2 COOLING ON (RED)	INDICATION LIGHTS			GENERAL NOTES.		
A-14 A-15				8.	INTEGRATION OF CONTROL PANE	L I/O POINTS TO SCADA, IF	
A-16	FAF-6 FAULT (AMBER)	INDICATION LIGHTS			APPLICABLE, TO BE COORDINATE	D AT 100% DESIGN.	
A-17	EAF-6 AIRFLOW LOSS (AMBER)		NAM	IEPL	ATE AND PILOT DEVICE	SCHEDULE	
A-18	ACU-2 FAULT (AMBER)	INDICATION LIGHTS	NAMEPLATE ID	ENG	RAVING	DEVICE TYPE	
A-19	ACU-2 LEAK DETECTION (AMBER)	INDICATION LIGHTS	С	FIRE	SUPPRESSION ROOM HV SYSTEM	NAMEPLATE	
A-20	ACCU-2 FAULT (AMBER)	INDICATION LIGHTS	C-1	EAF-	9	NAMEPLATE	
			C-2	STAF	<u>۲۲</u>	PUSHBUTTON	
NAM	IEPLATE AND PILOT DEVICE S	SCHEDULE	C-3	MAN	JAL/AUTO	SELECTOR SWITCH	
NAMEPLATE ID	ENGRAVING	DEVICE TYPE	C-4	STOF)	PUSHBUTTON	
В	SECURITY ROOM HVAC SYSTEM	NAMEPLATE	C-5	READ	DY (GREEN)	INDICATION LIGHTS	
B-1	EAF-5	NAMEPLATE	C-6	RUNI	NING (RED)	INDICATION LIGHTS	
B-2	START	PUSHBUTTON	C-7	DAM	PER OPEN (RED)		
B-3	MANUAL/AUTO	SELECTOR SWITCH	C-8	INTA		NAMEPLATE	
B-4	STOP	PUSHBUTTON	C 10	MD-2		PUSHBUITON	
B-5	READY (GREEN)	INDICATION LIGHTS	C 11	IVID-2			
B-6	RUNNING (RED)	INDICATION LIGHTS	C-11				
B-7	DAMPER OPEN (RED)	INDICATION LIGHTS	C 13				
B-8	INTAKE	NAMEPLATE	C. 1/	FUH	2 HEATING ON (RED)		
B-9	MD-11 INTAKE DAMPER OPEN	PUSHBUTTON	C-14			NAMEPLATE	
B-10	MD-11 INTAKE DAMPER MANUAL/AUTO	SELECTOR SWITCH	C-16	EAF-	9 FAULT (AMBER)		E
B-11	MD-11 INTAKE DAMPER CLOSE	PUSHBUTTON	C-17	EAF-	9 AIRFLOW LOSS (AMBER)	INDICATION LIGHTS	
B-12	MD-11 INTAKE DAMPER OPEN (RED)	INDICATION LIGHTS	C-18	EUH	OVER TEMPERATURE (AMBER)	INDICATION LIGHTS	
B-13	COOLING	NAMEPLATE					
B-14	ACU-1 COOLING ON (RED)	INDICATION LIGHTS	ΝΔΝ			SCHEDULE	
B-15	ALARMS	NAMEPLATE					
B-16	EAF-5 FAULT (AMBER)						
B-1/	EAF-5 AIRFLOW LOSS (AMBER)		D-1				
B-18				DETE	ECTOR ALARM (AMBER)		
в-19 В-20	ACCU-1 LEAK DETECTION (AMBER) ACCU-1 FAULT (AMBER)	INDICATION LIGHTS	D-2	SECI DETE	JRITY ROOM SMOKE ECTOR ALARM (AMBER)	INDICATION LIGHTS	F



ACCOUNTABLE MANAGER JUSTIN RIVELLINO PORTFOLIO MANAGER LAUREN D'ATTILE, PE DEPUTY DIRECTOR, IN HOUSE DESIGN MICHAEL LOEHR, PE

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