

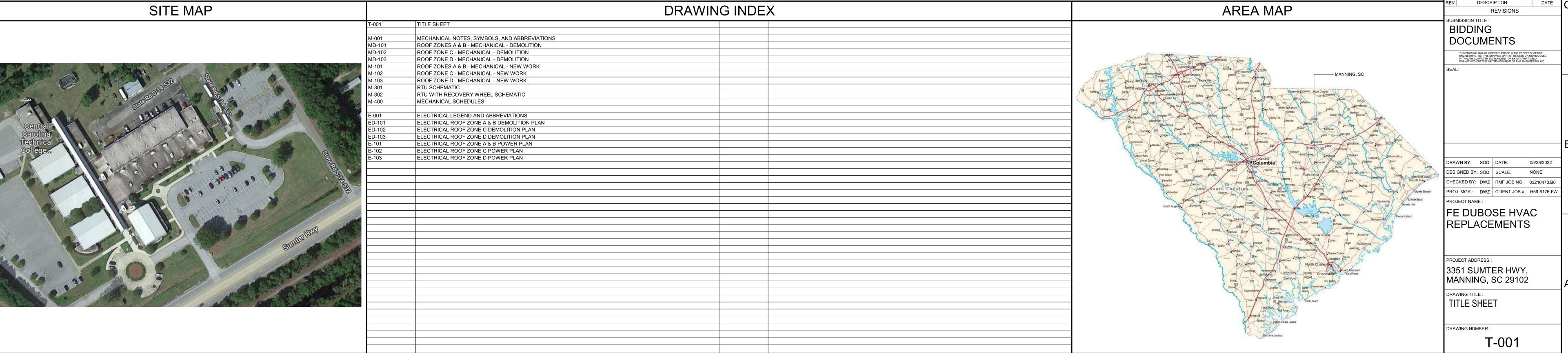
CENTRAL CAROLINA TECHNICAL COLLEGE FE DUBOSE HVAC REPLACEMENTS - REBID

BIDDING DOCUMENTS

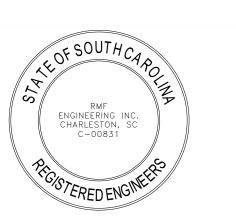
May 26, 2022 STATE PROJECT NUMBER: H59-6176-FW RMF PROJECT NUMBER: 03210470.B0

DESIGN TEAM



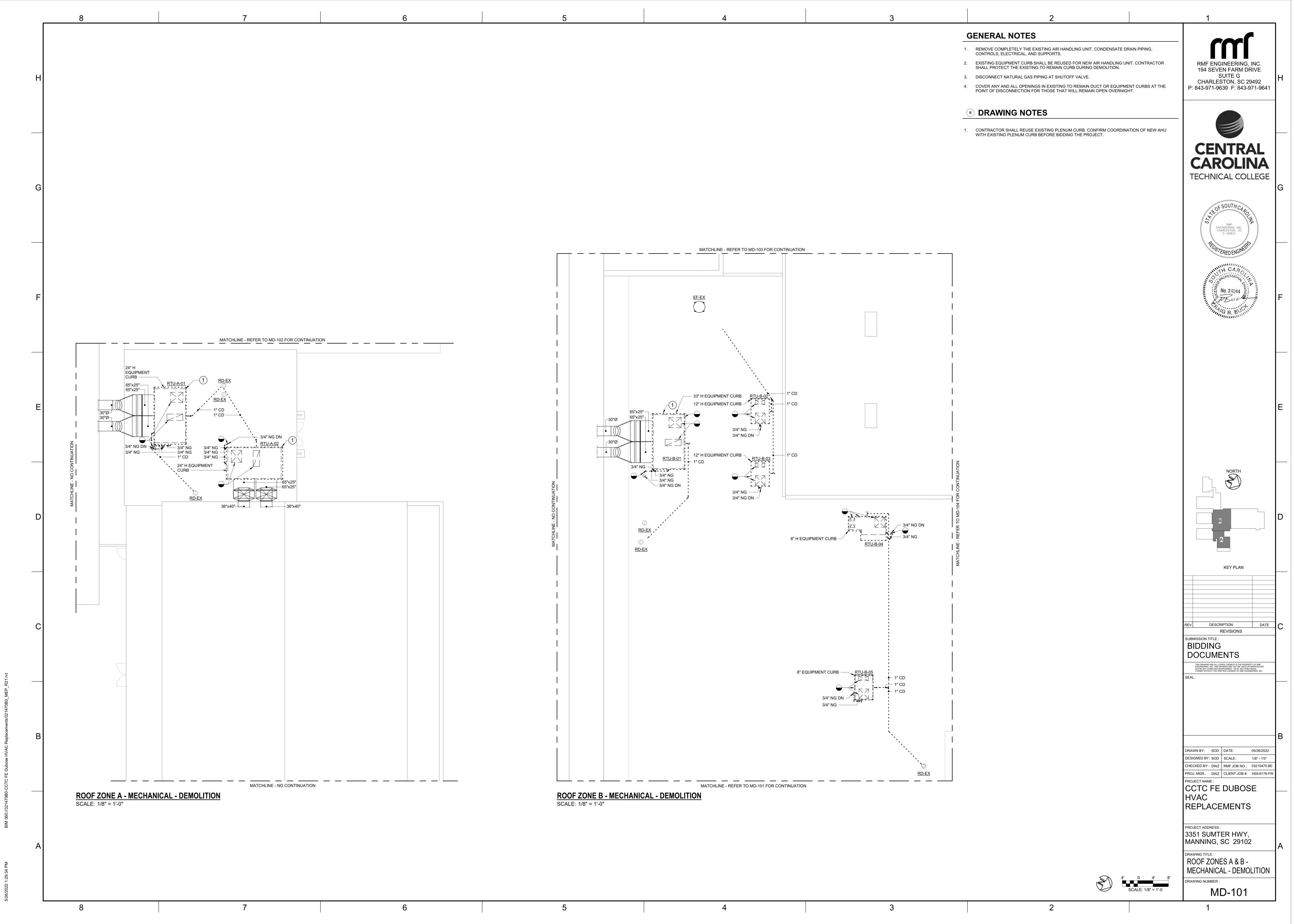


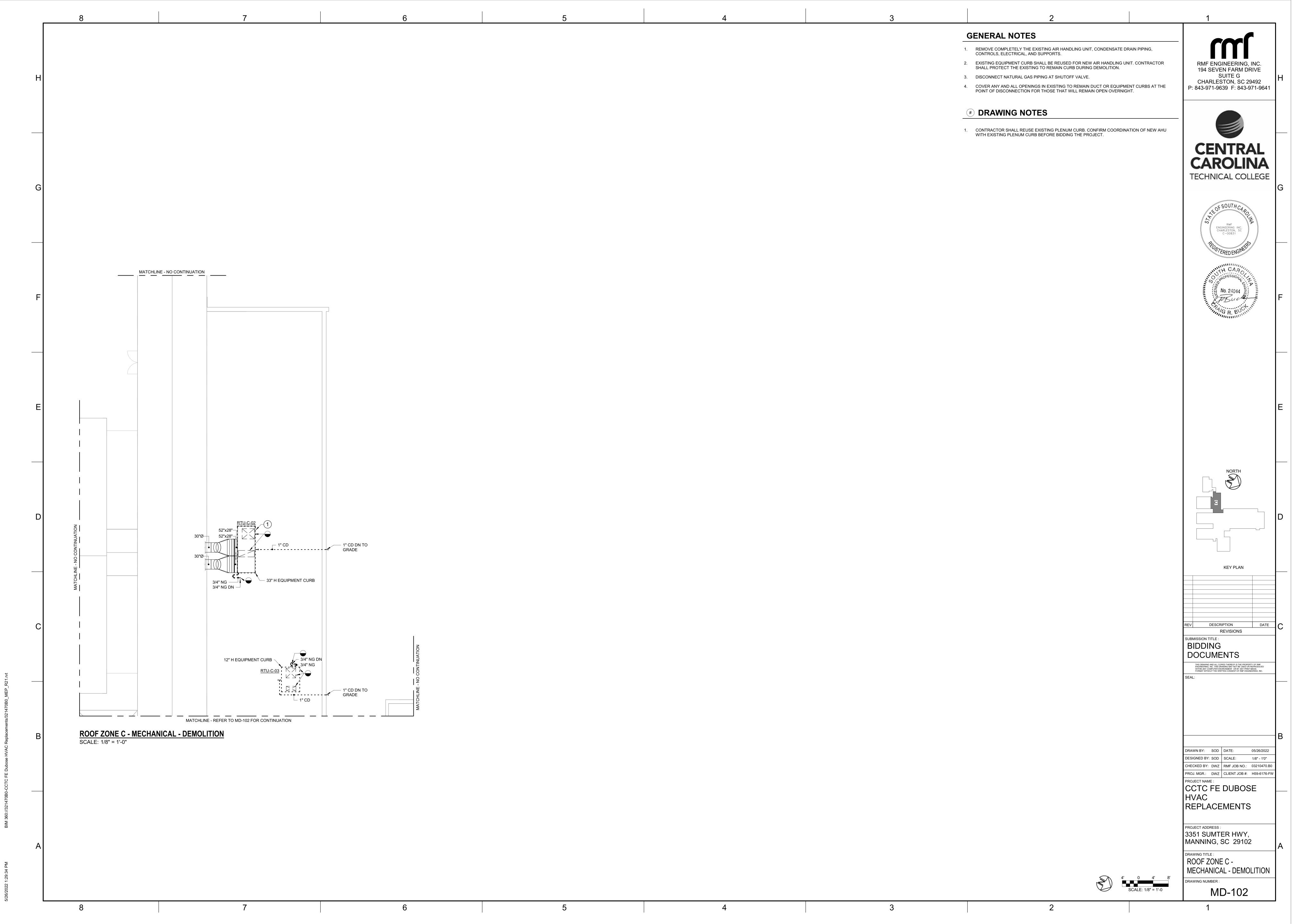


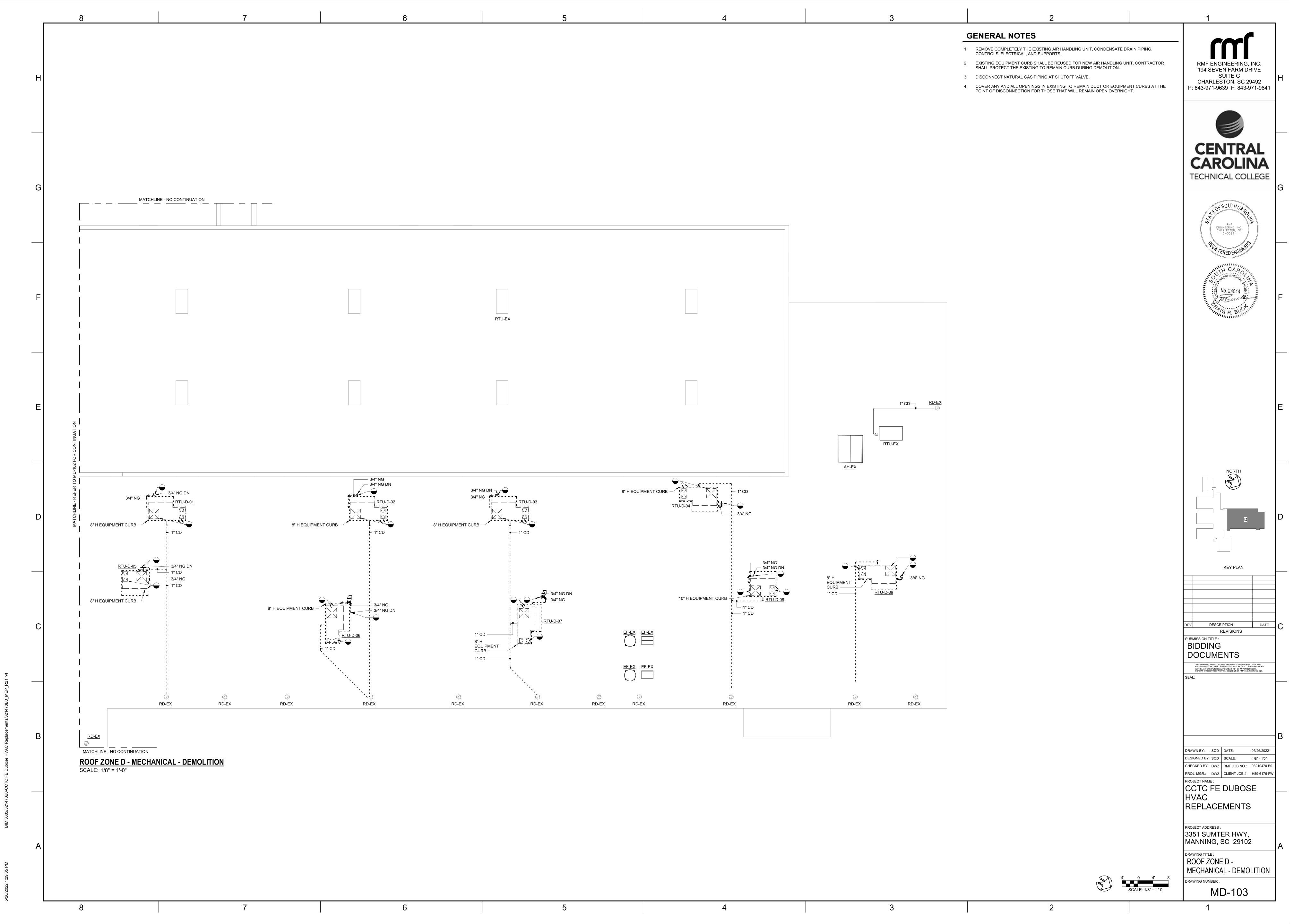


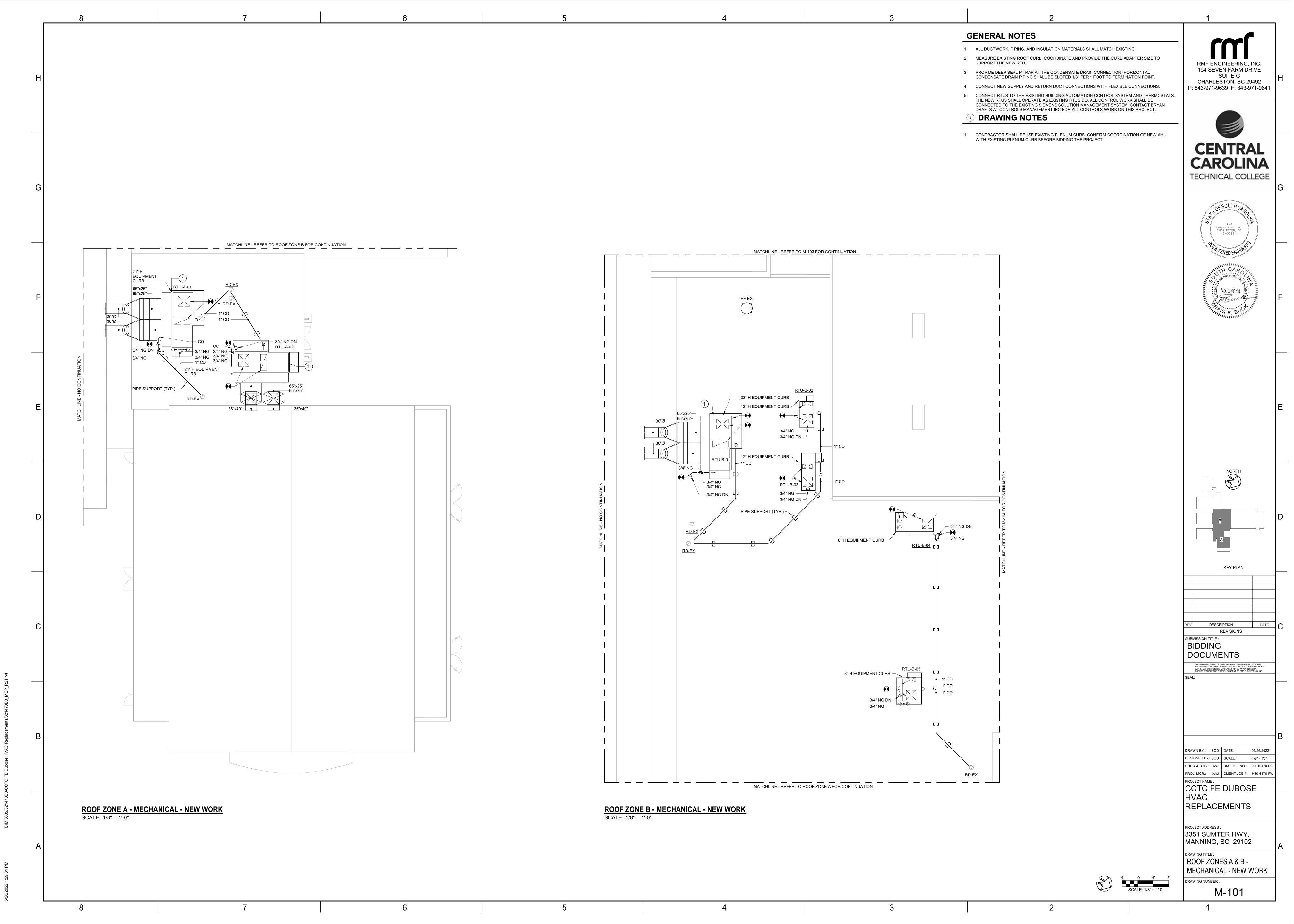


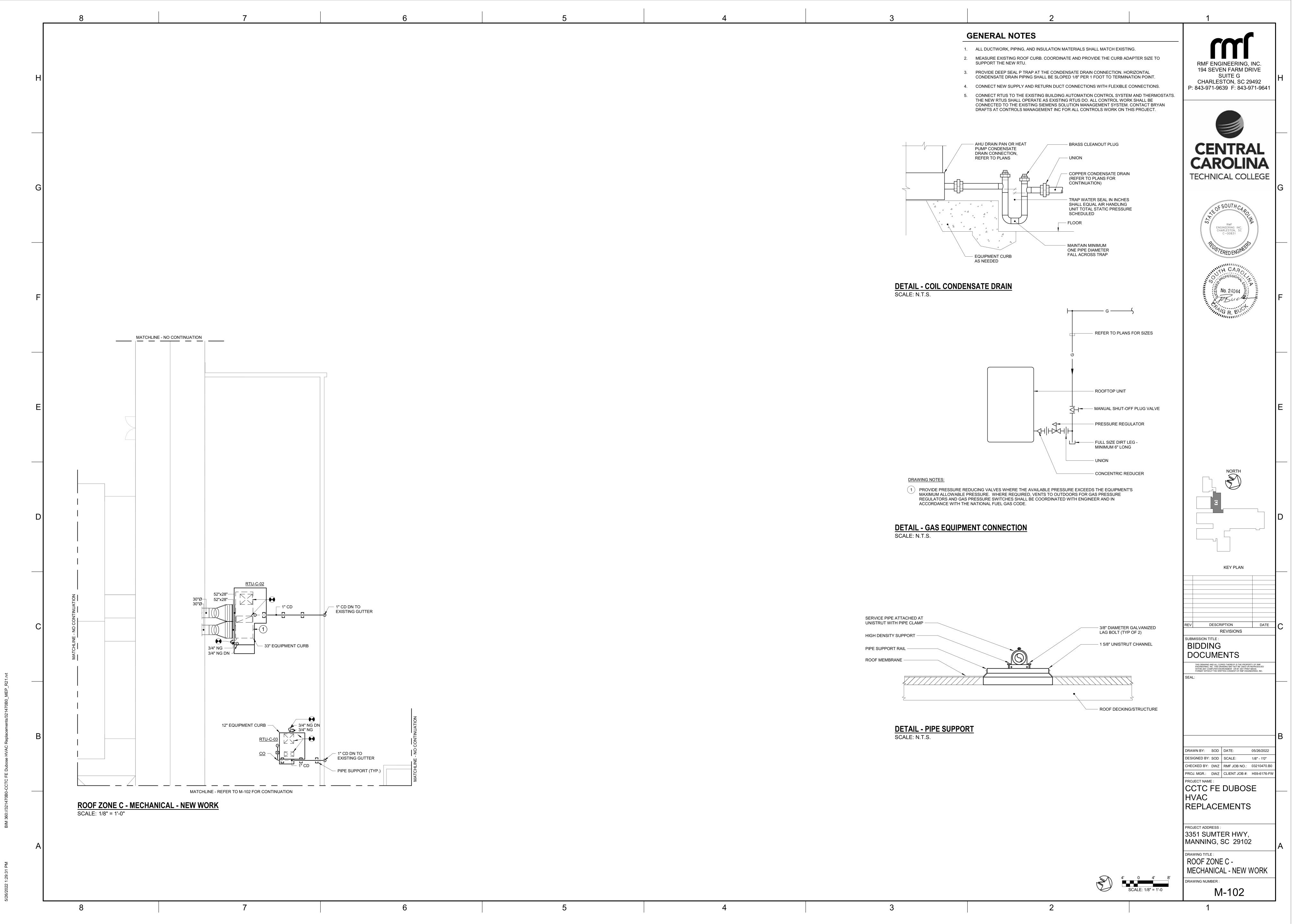


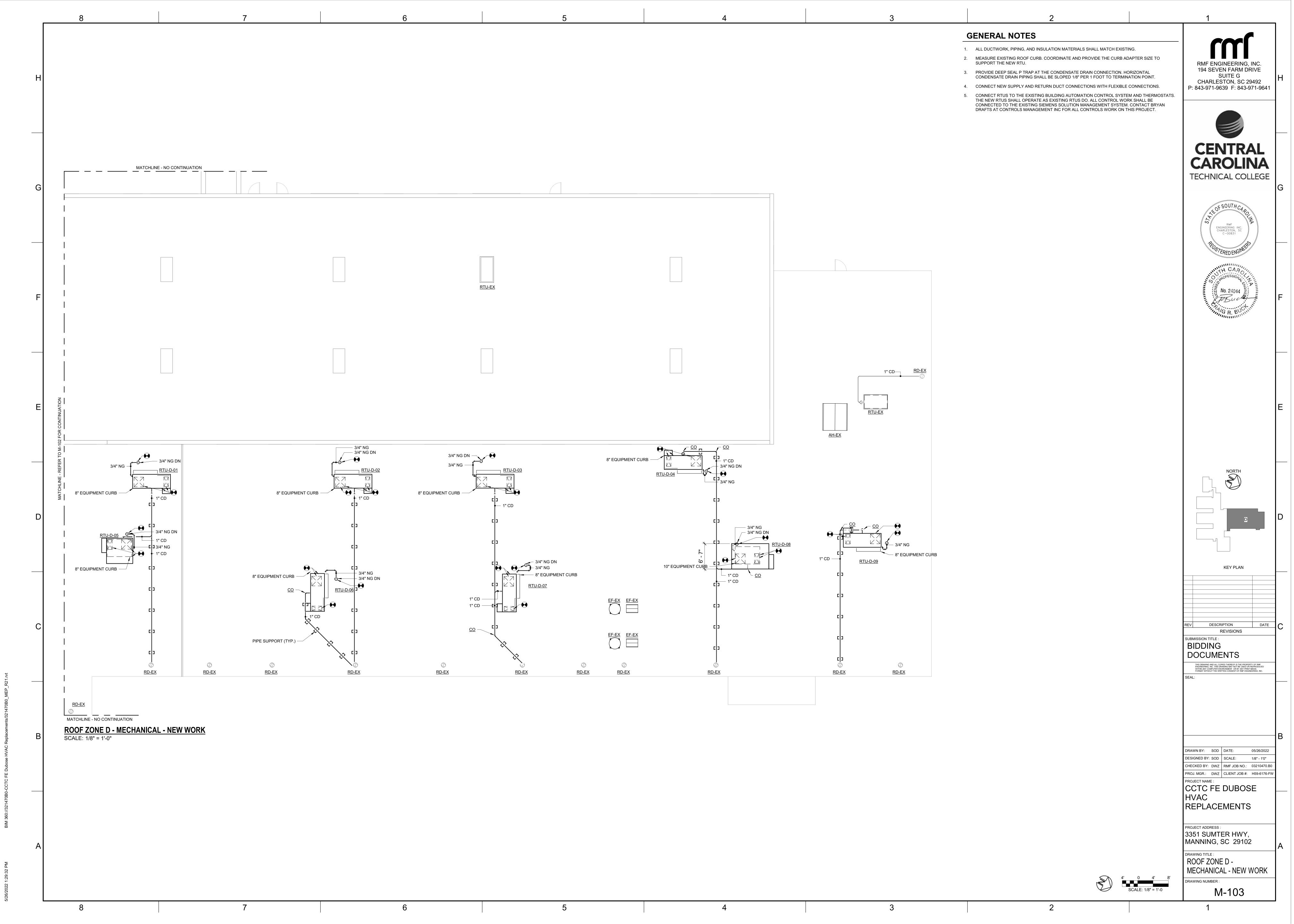


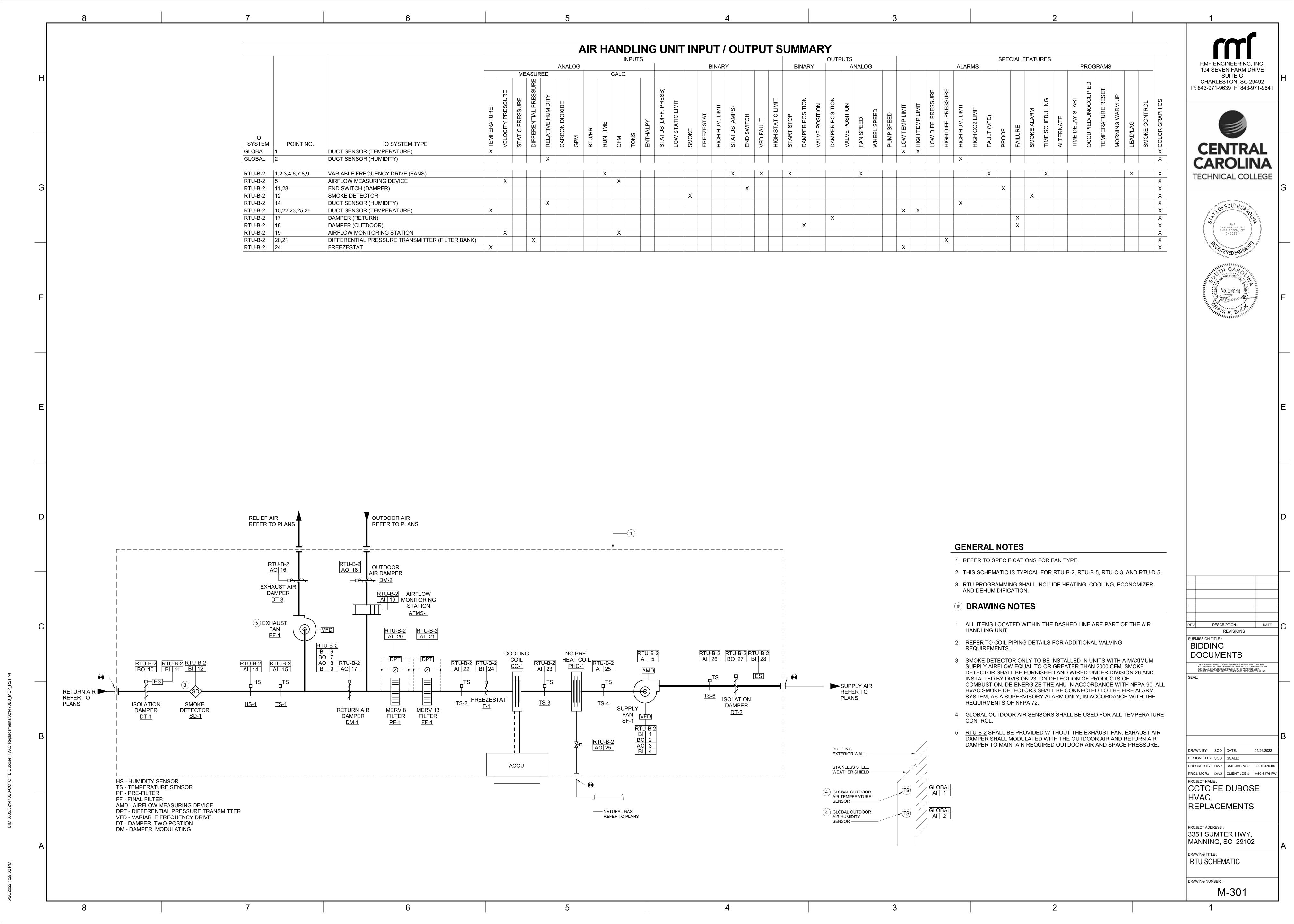


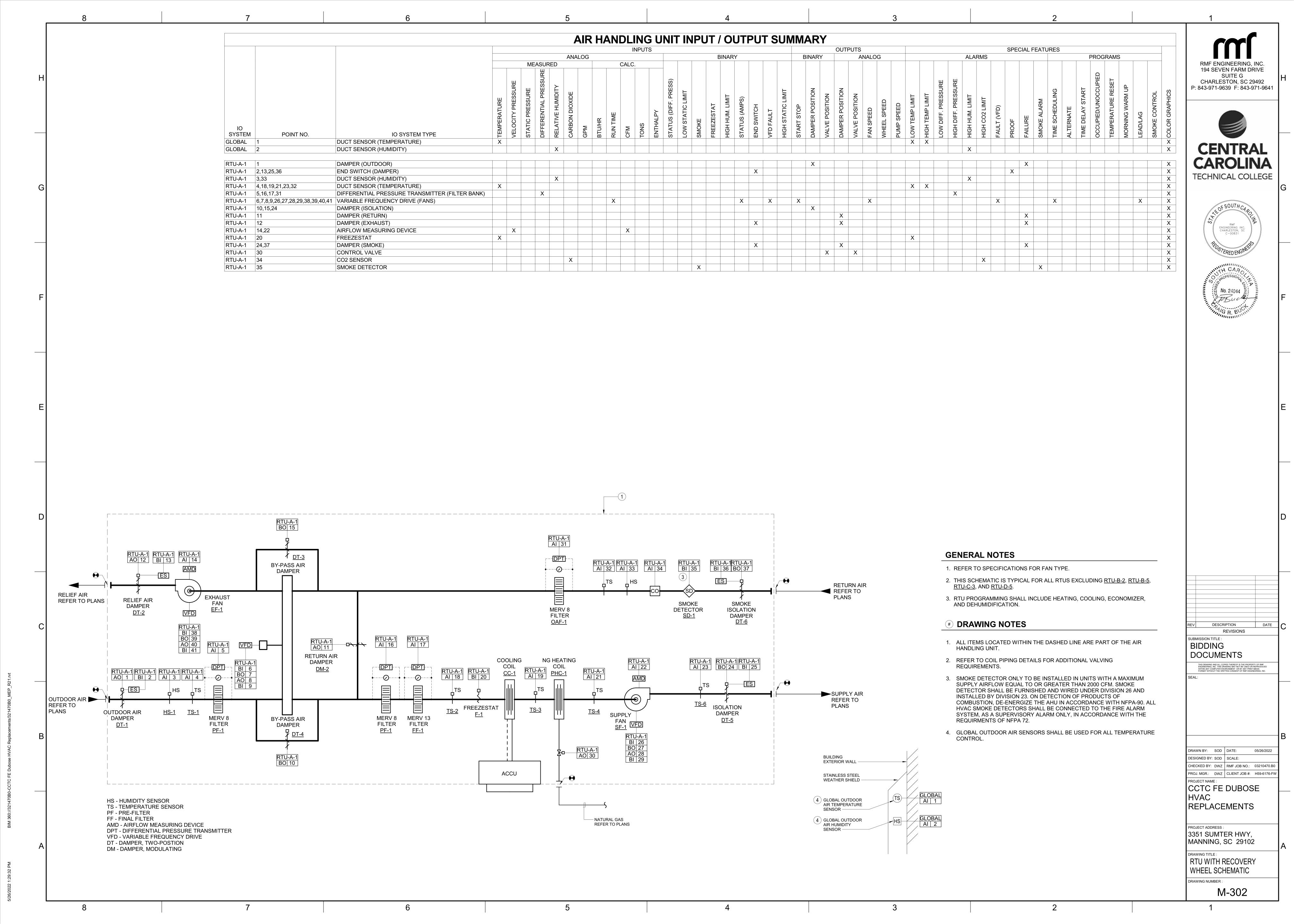












										ROOF	TOP A	AIR HA	NDLIN	NG UN	IIT SCH	IEDU	ILE (GAS	HEAT	-)							
													NATURA	L GAS HEA	TING COIL				_							
		AIR	FLOW					COO	LINIG COIL	DATA				DATA							ELEC	TRICAL				
						EA	T°F	LAT	°F	TOTAL		OUTDOOR			TOTAL											
			DESIGN	SUPPLY	EXHAUST					CAPACITY	CAPACITY	AMBIENT			CAPACITY			WEIGHT								
DESIGNATION	LOCATION	CFM	OA CFM	FAN	FAN	DB	WB	DB	WB	(MBH)	(MBH)	°F DB	EAT °F	LAT °F	(MBH)	EER	ECONOMIZER		VOLTS	PHASE	HERTZ	MOCP (A)	, ,	FLA (A)	BASIS OF DESIGN	REMARKS
RTU-A-01	ROOF ZONE A	8850	4825	SF-A-01	EF-A-01	78.8	70.0	54.9	53.6	462.1	232.4	93.4	65	100	334.5	10.7	YES	3684	460	3	60	100	85	79	AAON RN-030-3-EA09-389	
RTU-A-02	ROOF ZONE A	9900	6140	SF-A-02	EF-A-02	79.4	70.9	55.4	54.3	533.8	260.4	93.4	65	100	374.2	11.0	YES	3880	460	3	60	110	95	90	AAON RN-030-3-0-EB09-3C9	
RTU-B-01	ROOF ZONE B	7150	4435	SF-B-01	EF-B-01	79.4	70.9	55.2	53.8	385.6	188.1	93.4	65	83.2	140.5	12.3	YES	3651	460	3	60	70	85	57	AAON RN-020-3-0-EB09-389	
RTU-B-02	ROOF ZONE B	1090	340	SF-B-02	EF-B-02	77.2	66.9	61.0	56.7	42.6	26.1	93.4	65.3	120.9	65.5	13.5	YES	824	460	3	60	15	13	11	AAON RQ-003-3-V-EA09-319	
RTU-B-03	ROOF ZONE B	900	345	SF-B-03	EF-B-03	77.7	67.9	55.8	52.4	38.3	22.0	93.4	67.9	134.9	65.1	12.8	YES	1151	460	3	60	15	12	11	AAON RQ-002-3-V-KA09-319	
RTU-B-04	ROOF ZONE B	1000	310	SF-B-04	EF-B-04	77.2	66.9	60.2	55.7	39.0	23.9	93.4	60.7	121.1	65.2	12.8	YES	1151	460	3	60	15	12	11	AAON RQ-002-3-V-KA09-319	
RTU-B-05	ROOF ZONE B	2440	635	SF-B-05	EF-B-05	76.8	66.2	54.0	52.4	89.4	57.4	93.4	60	100.2	105.9	12.4	YES	1283	460	3	60	25	19	17	AAON RN-007-3-0-EB09-3K9	
RTU-C-02	ROOF ZONE C	6585	4085	SF-C-02	EF-C-02	79.4	70.9	54.3	53.0	355.1	173.2	93.4	65	127.5	444.5	12.4	YES	3536	460	3	60	60	52	49	AAON RN-018-3-0-EB09-389	
RTU-C-03	ROOF ZONE C	2550	575	SF-C-03	EF-C-03	76.6	65.8	54.3	53.0	89.1	59.3	93.4	60	96.2	99.7	13.5	YES	1271	460	3	60	25	17	15	AAON RN-006-3-0-EB09-3K9	
RTU-D-01	ROOF ZONE D	900	575	SF-D-01	EF-D-01	79.5	71.1	57.7	54.2	49.3	23.8	93.4	60.3	127.3	65.1	12.8	YES	1151	460	3	60	15	12	11	AAON RQ-002-3-V-KA09-319	
RTU-D-02	ROOF ZONE D	900	485	SF-D-02	EF-D-02	78.8	69.9	56.5	53.0	45.0	23.1	93.4	65.2	132.2	65.1	12.8	YES	1151	460	3	60	15	12	11	AAON RQ-002-3-V-KA09-319	
RTU-D-03	ROOF ZONE D	900	530	SF-D-03	EF-D-03	79.1	70.5	56.7	53.3	47.2	23.5	93.4	59.9	126.9	65.1	12.8	YES	1151	460	3	60	15	12	11	AAON RQ-002-3-V-KA09-319	
RTU-D-04	ROOF ZONE D	1300	650	SF-D-04	EF-D-04	78.5	69.4	59.3	55.1	62.6	33.0	93.4	58.9	111.1	73.3	11.9	YES	1183	460	3	60	15	13	12	AAON RQ-003-3-V-KA09-319	
RTU-D-05	ROOF ZONE D	2000	465	SF-D-05	EF-D-05	76.7	65.9	58.8	57.4	70.6	46.6	93.4	60	105.2	97.6	13.5	YES	1270	460	3	60	25	17	15	AAON RN-006-3-0-EB09-329	
RTU-D-06	ROOF ZONE D	1750	660	SF-D-06	EF-D-06	77.7	67.8	58.4	54.4	73.9	42.8	93.4	66.4	105.3	73.5	12.8	YES	1263	460	3	60	20	15	13	AAON RQ-004-3-V-KB09-319	
RTU-D-07	ROOF ZONE D	995	625	SF-D-07	EF-D-07	79.4	71.0	59.6	55.1	54.0	26.2	93.4	63	123.4	64.9	12.8	YES	1151	460	3	60	15	12	11	AAON RQ-002-3-V-KA09-319	
RTU-D-08	ROOF ZONE D	2785	1420	SF-D-08	EF-D-08	78.6	69.5	55.6	54.7	135.4	70.9	93.4	65	97.6	98.1	12.4	YES	1563	460	3	60	30	22	20	AAON RN-007-3-0-EB09-3K9	
RTU-D-09	ROOF ZONE D	1000	520	SF-D-09	EF-D-09	78.7	69.6	59.6	55.2	25.5	49.1	93.4	68.8	119.2	54.4	12.8	YES	1151	460	3	60	15	12	11	AAON RQ-002-3-V-KA09-319	

											TOTA	AL EN	ERGY F	RECO'	VERY	WHEE	EL SCH	HEDUL	E										
		С	FM					SUM	MER						WINTER									ELECTRICAL					
					SUPPLY	AIR TEMPE	RATURE			EXHAUS	T AIR TEMP	ERATURE			SUPPLY	AIR TEMP	RATURE			EXHAUS	T AIR TEMP	ERATURE							
				EAT	(°F)	LAT	T (°F)	AIR PD	EA	T (°F)	LA	Γ (°F)	AIR PD (IN.	EAT	Γ (°F)	LA	T (°F)	AIR PD	EA	T (°F)	LAT	(°F)	AIR PD					BASIS OF	
DESIGNATION	SERVICE	SUPPLY	RETURN	DB	WB	DB	WB	(IN. H2O)	DB	WB	DB	WB	H2O)	DB	WB	DB	WB	(IN. H2O)	DB	WB	DB	WB	(IN. H2O)	VOLTS	PHASE	HERTZ	HP	DESIGN	REMARKS
ERW-A-1	RTU-A-1	4825	1715	82.0	75.3	79.8	71.7	0.65	75.0	62.5	89.3	81.2	73.9	27.3	22.8	40.8	36.3	0.65	70.0	58.4	32.0	28.0	0.65	460	1	60	1/6	ERC-5255C-4M	
ERW-A-2	RTU-A-2	6140	2060	82.0	75.3	79.9	71.9	0.82	75.0	62.5	81.3	73.9	0.82	27.3	22.8	40.1	35.7	0.82	70.0	58.4	31.8	27.9	0.82	460	1	60	1/6	ERC-5255C-4M	
ERW-B-1	RTU-B-1	4435	1165	82.0	75.3	80.3	72.6	0.59	75.0	62.5	81.4	74.2	0.59	27.3	22.8	37.6	33.3	0.59	70.0	58.4	30.9	26.9	0.59	460	1	60	1/6	ERC-5255C-4M	
ERW-B-3	RTU-B-3	345	555	82.0	75.3	75.9	64.7	0.28	75.0	62.5	78.8	69.7	0.28	27.3	22.8	64.5	54.6	0.28	70.0	58.4	46.9	42.0	0.28	230	1	60	1/20	ERC-5255C-4M	
ERW-B-4	RTU-B-4	310	690	82.0	75.3	75.8	64.5	0.26	75.0	62.5	77.8	67.9	0.26	27.3	22.8	64.9	54.9	0.26	70.0	58.4	53.1	46.9	0.26	230	1	60	1/20	ERC-5255C-4M	
ERW-C-2	RTU-C-2	4085	1365	82.0	75.3	79.9	71.9	0.55	75.0	62.5	81.3	74.1	0.55	27.3	22.8	40.2	35.8	0.55	70.0	58.4	31.3	27.3	0.55	460	1	60	1/6	ERC-5255C-4M	
ERW-D-1	RTU-D-1	575	135	82.0	75.3	80.6	73.2	0.44	75.0	62.5	80.8	72.8	0.44	27.3	22.8	35.6	31.0	0.44	70.0	58.4	34.5	31.1	0.44	230	1	60	1/20	ERC-5255C-4M	
ERW-D-2	RTU-D-2	485	285	82.0	75.3	79.0	70.8	0.38	75.0	62.5	80.2	71.2	0.38	27.3	22.8	49.6	43.8	0.38	70.0	58.4	32.1	28.3	0.38	230	1	60	1/20	ERC-5255C-4M	
ERW-D-3	RTU-D-3	530	200	82.0	75.3	80.2	67.5	0.41	75.0	62.5	89.4	73.4	0.41	27.3	22.8	40.1	35.3	0.41	70.0	58.4	36.2	33.4	0.41	230	1	60	1/20	ERC-5255C-4M	
ERW-D-4	RTU-D-4	650	385	82.0	75.3	78.4	69.4	0.5	75.0	62.5	81.0	73.5	0.5	27.3	22.8	49.1	43.4	0.5	70.0	58.4	33.2	29.4	0.5	230	1	60	1/20	ERC-5255C-4M	
ERW-D-6	RTU-D-6	660	1170	82.0	75.3	76.5	65.9	0.51	75.0	62.5	78.1	68.4	0.51	27.3	22.8	65.1	55.0	0.51	70.0	58.4	48.7	43.4	0.51	230	1	60	1/20	ERC-5255C-4M	
ERW-D-7	RTU-D-7	625	370	82.0	75.3	78.6	69.7	0.47	75.0	62.5	81.1	73.5	0.4	27.3	22.8	49.2	43.4	0.47	70.0	58.4	33.0	29.2	0.4	230	1	60	1/20	ERC-5255C-4M	
ERW-D-8	RTU-D-8	1420	800	82.0	75.3	78.6	69.7	0.6	75.0	62.5	81.1	73.6	0.6	27.3	22.8	48.2	42.7	0.6	70.0	58.4	32.9	29.1	0.6	230	1	60	1/20	ERC-5255C-4M	
ERW-D-9	RTU-D-9	520	270	82.0	75.3	78.8	70.0	0.41	75.0	62.5	81.2	73.8	0.41	27.3	22.8	47.1	41.7	0.41	70.0	58.4	31.9	28.1	0.41	230	1	60	1/20	ERC-5255C-4M	

	0			.,		0.11	7 0.0	70.1		0.11		•		1,20	2110 02000 1111
					AIR HA	NDLIN	IG UNIT	SUPPLY	FAN S	SCHEDU	JLE				
			TOTAL	NO. OF	TSP	ESP		MOTOR HP	VARIABI	LE FREQUENC	/ DRIVE		ELECTRICAL		
DESIGNATION	SERVICE	TYPE	CFM	FANS	(IN H2O)	(IN H2O)	FAN RPM	(PER FAN)	REQUIRED	ENCLOSURE	BYPASS	VOLTS	PHASE	HERTZ	REMARKS
SF-A-01	RTU-A-01	FC	8850	1	4.3	1.25	1760	10.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-A-02	RTU-A-02	FC	9900	1	5.05	1.25	1760	15.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-B-01	RTU-B-01	FC	7150	1	3.75	1.25	1760	7.5	YES	NEMA 4X	NO	460	3	60	VFD
SF-B-02	RTU-B-02	FC	1090	1	1.91	1.34	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-B-03	RTU-B-03	FC	900	1	2.35	1.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-B-04	RTU-B-04	FC	1000	1	2.37	1.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-B-05	RTU-B-05	FC	2440	1	2.7	1.5	1760	2.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-C-02	RTU-C-02	FC	6585	1	3.57	2.5	1760	7.5	YES	NEMA 4X	NO	460	3	60	VFD
SF-C-03	RTU-C-03	FC	2550	1	2.71	2	1760	2.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-D-01	RTU-D-01	FC	900	1	2.57	1.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-D-02	RTU-D-02	FC	900	1	2.48	1.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-D-03	RTU-D-03	FC	900	1	2.52	1.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-D-04	RTU-D-04	FC	1300	1	2.89	1.6	1760	2.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-D-05	RTU-D-05	FC	2000	1	2.59	1.5	1760	2.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-D-06	RTU-D-06	FC	1750	1	3.26	1.3	1760	2.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-D-07	RTU-D-07	FC	995	1	2.64	1.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-D-08	RTU-D-08	FC	2785	1	3.05	1.5	1760	3.0	YES	NEMA 4X	NO	460	3	60	VFD
SF-D-09	RTU-D-09	FC	1000	1	2.56	1.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD

				A	IR HA	NDLIN	G UNIT	EXHAUS	T FAN	SCHED	ULE				
			TOTAL	NO. OF	TSP	ESP		MOTOR HP	VARIAB	LE FREQUENCY	DRIVE		ELECTRICAL	_	
DESIGNATION	SERVICE	TYPE	CFM	FANS	(IN H2O)	(IN H2O)	FAN RPM	(PER FAN)	REQUIRED	ENCLOSURE	BYPASS	VOLTS	PHASE	HERTZ	REMARKS
EF-A-01	RTU-A-01	FC	6540	1	1.73	0.75	1760	5.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-A-02	RTU-A-02	FC	8200	1	2.03	0.75	1760	7.5	YES	NEMA 4X	NO	460	3	60	VFD
EF-B-01	RTU-B-01	FC	5600	1	1.63	0.75	1760	3.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-B-03	RTU-B-03	FC	900	1	0.68	0.25	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-B-04	RTU-B-04	FC	1000	1	0.66	0.25	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-B-05	RTU-B-05	FC	2000	1	0.86	0.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-C-02	RTU-C-02	FC	5450	1	1.57	1.5	1760	3.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-C-03	RTU-C-03	FC	2185	1	0.91	0.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-D-01	RTU-D-01	FC	710	1	0.84	0.25	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-D-02	RTU-D-02	FC	770	1	0.78	0.25	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-D-03	RTU-D-03	FC	630	1	0.81	0.25	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-D-04	RTU-D-04	FC	1035	1	0.94	0.25	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-D-05	RTU-D-05	FC	1910	1	0.79	0.5	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-D-06	RTU-D-06	FC	1830	1	1.02	0.25	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-D-07	RTU-D-07	FC	995	1	8.0	0.25	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-D-08	RTU-D-08	FC	2220	1	1.21	0.25	1760	2.0	YES	NEMA 4X	NO	460	3	60	VFD
EF-D-09	RTU-D-09	FC	790	1	0.81	0.25	1760	1.0	YES	NEMA 4X	NO	460	3	60	VFD









DESCRIPTION REVISIONS

SUBMISSION TITLE:
BIDDING
DOCUMENTS

DRAWN BY: SOD DATE: DESIGNED BY: SOD SCALE: CHECKED BY: DWZ RMF JOB NO.: 03210470.B0 PROJ. MGR.: DWZ CLIENT JOB #: H59-6176-FW

PROJECT NAME:

CCTC FE DUBOSE HVAC REPLACEMENTS

PROJECT ADDRESS:
3351 SUMTER HWY,
MANNING, SC 29102

DRAWING TITLE:
MECHANICAL SCHEDULES

DRAWING NUMBER :

M-401

LECTRICAL	L SYMBOLS								ELECTRICAL ABBREVIATIONS		
	LIGHTING SYMBOLS		SPECIAL SYSTEMS SYMBOLS			POWER SYMBOLS				REVIATIONS MAY NOT APPEAR ON THE WH KILOWATT HOUR	
SYMBOL ONO.	DESCRIPTION MH (UON)	<u>SYMBOL</u>	DESCRIPTION FIRE ALABA LIGAN TYPE SPEAKER	MH (UON)	<u>SYMBOL</u>	DESCRIPTION	MH (UON)	<u>SYMBOL</u> <u>DESCRIPTION</u>	2S2W 2 SPEED DOUBLE WINDING L	LA LIGHTNING ARRESTOR LC LIGHTING CONTACTOR	RMF ENGINEERING 194 SEVEN FARM
\$ SINGLE	LE POLE TOGGLE SWITCH 48" TOD CH:	Ø∃ ¥:	FIRE ALARM HORN TYPE SPEAKER	NOTE 5	<u>\$ Φ</u>	COMBINATION SWITCH AND SIMPLEX RECEPTACLE	48" TOD	——• RACEWAY "UP" OR "TOWARDS"		LP LIGHTING PANEL LRA LOCKED ROTOR AMPERES	SUITE G CHARLESTON, SC P: 843-971-9639 F: 843
♥a SUB-LE	ETTER INDICATES FIXTURES CONTROLLED (a) TOD)El	FIRE ALARM FLASHING STROBE LIGHT - WALL MOUNTED FIRE ALARM HORN	NOTE 5	<u>\$ \$</u>	COMBINATION SWITCH AND DUPLEX RECEPTACLE	48" TOD	RACEWAY "DOWN" OR "AWAY" CIRCUIT CONCEALED IN WALLS OR CEILING SPACE:	AFCI ARC FAULT CIRCUIT INTERRUPTER L AFF ABOVE FINISHED FLOOR L	TG LIGHTING TNG LIGHTNING	1.040-311-3033 F:84
	ELE POLE TOGGLE SWITCH 48" TOD	≻⊡ N FI	COMBINATION FIRE ALARM HORN AND FLASHING STROBE	NOTE 5	O 1	SIMPLEX RECEPTACLE:	18" CTR	CIRCUIT CONCEALED IN WALLS OR CEILING SPACE: CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON)	AIC AMPS INTERRUPTING CAPACITY	MATV MASTER ANTENNA TELEVISION MCB MAIN CIRCUIT BREAKER	
	E-WAY TOGGLE SWITCH (SPDT) 48" TOD	S F	LIGHT S - CEILING SPEAKER, F - FIRE ALARM SPEAKER	 V	E₩	DUPLEX RECEPTACLE: 'E' (IF SHOWN) INDICATES CONNECTED TO EMERGENCY CIRCUIT DUPLEX RECEPTACLE:	18" CTR	RACEWAY CONCEALED IN SLAB OR BELOW GRADE	ALT ALTERNATE NAME OF ANN ANNUNCIATOR	MCC MOTOR CONTROL CENTER MEH METAL HALIDE	
	-WAY TOGGLE SWITCH (DPDT) 48" TOD	₩ ₩	FIRE ALARM SPEAKER W/ STROBE			DUPLEX RECEPTACLE: FLOOR MOUNTED DUPLEX RECEPTACLE:		BRANCH CIRCUIT HOMERUN TO PANELBOARD: QUANTITY OF CIRCUITS INDICATED BY ARROWS NUMBER OF CONDUCTORS SHALL BE MINIMUM 4#12 AWG	ARCH ARCHITECT	MH MANHOLE, MOUNTING HEIGHT MLO MAIN LUGS ONLY MSP MOTOR STARTER PANEL	
IX.	PPERATED SWITCH 48" TOD E WAY DIMMER SWITCH:) NE			€	SPLIT WIRED, BOTTOM HALF SWITCHED DUPLEX RECEPTACLE:	18" CTR	AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON) RACEWAY RUN EXPOSED:	ATS AUTOMATIC TRANSFER SWITCH N AV AUDIOVISUAL N	MTD MOUNTED MV MERCURY VAPOR	CENTR
[▶] 3D a SUBLE	ETTER INDICATES FIXTURES CONTROLLED (a) TOD	NS H	HORN TYPE SPEAKER MAGNETIC DOOR HOLDER		\$	CEILING MOUNTED DUPLEX RECEPTACLE:		CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON)	AWG AMERICAN WIRE GAUGE N BAS BUILDING AUTOMATION SYSTEM	NC NORMALLY CLOSED NEC NATIONAL ELECTRIC CODE	CAROLI
	JAL STARTER W/ OVERLOADS 48" TOD	DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER		⊕•	PEDESTAL TYPE DUPLEX RECEPTACLE:		BUS DUCT OR CABLE TRAY "UP" OR "TOWARDS"	BFC BELOW FINISHED CEILING N BFG BELOW FINISHED GRADE	NFSS NON-FUSED SAFETY SWITCH NO NUMBER, NORMALLY OPEN	TECHNICAL CO
•	CH W/ PILOT LIGHT 48" TOD ER SWITCH 48"	FAAP	FIRE ALARM ANNUNCIATOR PANEL		 	MOUNTED 6" ABOVE BACKSPLASH OR COUNTER DUPLEX RECEPTACLE:		BUS DUCT OR CABLE TRAY "DOWN" OR "AWAY"		OC ON CENTER OFCI OWNER FURNISHED CONTRACTOR	
¢ 4.0.1.TT	TON DIMMER SWITCH 48"	FACP	FIRE ALARM CONTROL PANEL		GFI⊖	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE:	18" CTR	BUS DUCT: TYPE AND SIZE AS INDICATED	C, CND CONDUIT CATV CABLE TELEVISION	INSTALLED OWNER FURNISHED OWNER INSTALLED	OF SOUTH CA
¢ 1000	TOD	RAM	RESCUE ASSISTANCE MASTER CONTROL PANEL	48" TOD	GFI♥Ⅎ	GFI MOUNTED 6" ABOVE BACKSPLASH OR COUNTER DUPLEX RECEPTACLE:	0.411.0.T.D.	TELEPHONE AND POWER POLE ASSEMBLY	CB CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION CKT, CCT CIRCUIT	DH OVERHEAD	Z S PME
	VOLTAGE CONTROL SWITCH 48" TOD JAL TIME SWITCH 48"	RAR	RESCUE ASSISTANCE REMOTE STATION	48" TOD	н⊖н	MOUNTED HIGH DUPLEX RECEPTACLE:	84" CTR	CONCRETE ENCASED DUCTBANK BELOW GRADE W SUBFACE MOUNTED BACEWAY ASSEMBLY WITH	CL CURRENT LIMITING F CLG CEILING F	POLE PB PUSHBUTTON PE POWER FACTOR	RMF ENGINEERING INC. CHARLESTON, SC C-00831
	TOD ENTARY CONTACT SWITCH 48 48"	TP	FIRE ALARM TRANSPONDER DOOR SOLENOID, ELECTRIC STRIKE - LOCKING DEVICE		IG €4	ISOLATED GROUND DUPLEX RECEPTACLE:	18" CTR	SURFACE MOUNTED RACEWAY ASSEMBLY WITH REMOVABLE COVER MULTI-OUTLET ASSEMBLY: DARK SOLIARES INDICATE PREWIRED RECEPTACLE	CONN CONNECT F CPT CONTROL POWER TRANSFORMER CT CURRENT TRANSFORMER	PF POWER FACTOR PFCC POWER FACTOR CORRECTION CAPACITOR	PECOTEDE - ICM
¢ CMITO	TOD CH WITH WEATHERPROOF ENCLOSURE 48 48"	DSES	CONNECTION POINT		₩	AT 54" A.F.F. DOUBLE DUPLEX RECEPTACLE	54" CTR 18" CTR	DARK SQUARES INDICATE PREWIRED RECEPTACLE LOCATIONS SIZE AS INDICATED MULTI-OUTLET ASSEMBLY:	CTR CENTER F CU, CO COPPER	PL PILOT LIGHT PLC PROGRAMMABLE LIGHTING CONTROL PANEL	O FRED ENGIN
	TOD IPANCY SENSOR (CEILING & WALL MOUNTED)	E ^ ^	FIRE ALARM PULL STATION HEAT DETECTOR:	48" TOD	ıG ⊕ ∃	DOUBLE DUPLEX RECEPTACLE	18" CTR	MULTI-OUTLET ASSEMBLY: WITH RECEPTACLES LOCATED WHERE INDICATED 2 CELL MULTI-OUTLET ASSEMBLY:	CX CONNECT TO EXISTING F DC DIRECT CURRENT	PNL PANEL PP POWER PANEL Pp PUMP	
	NCY SENSOR		E = ELEVATOR CONTROLS SMOKE DETECTOR (PHOTOELECTRIC):			ISOLATED GROUND SIMPLEX RECEPTACLE:	36" CTR	WITH COMMUNICATION DEVICES AND RECEPTACLES LOCATED WHERE INDICATED	DISC DISCONNECT F DN DOWN	PR PAIR PRN PRINTER	
	CLOCK		AB = AUDIBLE BASE, E = ELEVATOR CONTROLS		c⊖l	CART RECHARGE DUPLEX RECEPTACLE:	36" CTR 36" CTR	MULTI-OUTLET ASSEMBLY: WITH COMMUNICATION DEVICES LOCATED WHERE INDICATED	DP DISTRIBUTION PANEL F DPDT DOUBLE POLE DOUBLE THROW	PT POTENTIAL TRANSFORMER PVC POLYVINYL CHLORIDE Ø, PH PHASE	
R RELAY		♥	SMOKE DETECTOR (IONIZATION)		c ⇔ P ⇔	CART RECHARGE DUPLEX RECEPTACLE:	36" CTR 54" CTR		DPST DOUBLE POLE SINGLE THROW DT DOUBLE THROW	QTY QUANTITY	
	ING CONTACTOR	₩	FIRE ALARM DUCT DETECTOR WITH RELAY CARBON MONOXIDE DETECTOR		₽ © Η	PAY PHONE SPECIAL RECEPTACLE:	54" CTR 18" CTR	CABLE TRAY	E, EMERG EMERGENCY	RCS REMOTE CONTROL SWITCH REC, RECEPTACLE	
	OCELL OR PUSHPLATE SWITCH	♥	CARBON MONOXIDE DETECTOR FIRE ALARM SYSTEM ADDRESSABLE RELAY - CONTROL		В © Н	NEMA 6-20R (20A, 2P, 3W, 208V) SPECIAL RECEPTACLE:	18" CTR	GROUND ROD	EA EACH F	RECPT REQ'D REQUIRED RFI RADIO FREQUENCY INTERFERENCE	
UL924 EMERO	GENCY SHUNT RELAY, UL 924 LISTED (CEILING	ARC ARM	FIRE ALARM SYSTEM ADDRESSABLE RELAY - CONTROL FIRE ALARM SYSTEM ADDRESSABLE RELAY - MONITOR		с © Н	NEMA 6-30R (30A, 2P, 3W, 208V) SPECIAL RECEPTACLE:	18" CTR	LIGHTNING PROTECTION AIR TERMINAL	EH ELECTRIC HEATER F ELEC ELECTRIC F	RGS RIGID GALVANIZED STEEL RLA RUNNING LOAD AMPERES	
MOUN'	NTED) TING FIXTURE:	RAL	FIRE ALARM SYSTEM ADDRESSABLE RELAY - MONITOR FIRE ALARM SYSTEM REMOTE ALARM LIGHT		D © H	NEMA 14-20R (20A, 3P, 4W, 208/120V) SPECIAL RECEPTACLE:	18" CTR	-G—←G- GROUND WIRE CONNECTION	ELEV ELEVATION, ELEVATOR	RM ROOM RVAT REDUCED VOLTAGE AUTO TRANSFORMER	
O O LIGHTI	SSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED	FS FS	FIRE ALARM SYSTEM REMOTE ALARM LIGHT FLOW SWITCH CONNECTION		- ♥ 1	NEMA 15-30R (30A, 3P, 4W, 208V) SPECIAL RECEPTACLE:		-G-G-G- GROUND WIRE	EV EVICENIA	RX REMOVE EXISTING	
LIGHTI	ING FIXTURE:	rs TS	TAMPER SWITCH CONNECTION		A () →	FLOOR MOUNTED, NEMA 6-20R SPECIAL RECEPTACLE: PEDESTAL TYPE NEMA 6-20R		LIGHTNING PROTECTION DOWN LEAD	EAAB FIDE ALABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	SC SURGE CAPACITOR SEC SECONDARY SN, S/N SOLID NEUTRAL	
LIGHTI	ING FIXTURE:	TRASMITTE RECEIVER LBT GHT BEAMLBR	FIDE ALABALINEAD DEAM ONOME DETECTOR		⇔ I	PEDESTAL TYPE, NEMA 6-20R TELEVISION RECEPTACLE	72" CTR	Ø UTILITY POLE	FACP FIRE ALARM CONTROL PANEL S FBO FURNISHED BY OTHERS	SP SURGE PROTECTION SPD SURGE PROTECTION DEVICE	
LIGHTI	MOUNTED - TYPE AS SPECIFIED ING FIXTURE:	▼ ^F	FIRE FIGHTER'S TELEPHONE JACK	48" TOD	н⇔Н	TELEVISION RECEPTACLE	18" BFC		E0	SPDT SINGLE POLE DOUBLE THROW SS SAFETY SWITCH	
LIGHTI	SSED, SURFACE, OR PENDANT MOUNTED ING FIXTURE:	M	MONITOR SYSTEM JUNCTION BOX	TOD 36"	©H	CLOCK HANGER OUTLET	84" CTR		FLR FLOOR S	SST SOLID STATE ST SINGLE THROW SW SWITCH	
WALL	MOUNTED - TYPE AS SPECIFIED WASHER	A	AMPLIFIER	CTR	¹ Ф1 ² Ф1	PROGRAM CLOCK OUTLET: SINGLE FACE, DOUBLE FACE	84" CTR			SWBD SWITCHBOARD	
	STABLE WALL WASHER	K	KEYPAD	48"	EPO]	SINGLE FACE, DOUBLE FACE EMERGENCY POWER OFF SWITCH	48" TOD		FVR FULL VOLTAGE REVERSING T	TBR TO BE REMOVED TC TIME CLOCK TEL, TELE TELEPHONE	
	ING FIXTURE ON EMERGENCY OR NIGHT LIGHT CIRCUIT (NL)	CR	CARD READER	TOD 48"		JUNCTION BOX			GEN GENERATOR, GENERAL T GFCI GROUND FAULT CIRCUIT INTERPLIER	TH TUNGSTEN HALOGEN TOC TOP OF CABINET	
 ப EMERG	GENCY BATTERY PACK:	DA	DOOR ALARM CONTACT	TOD	Ф	JUNCTION BOX - WALL MOUNTED	48" TOD		GFI GROUND FAULT INTERRUPTER T GFP GROUND FAULT PROTECTED	TOD TOP OF DEVICE TRANS, TRANSFORMER KFMR	
EMERO	JMBER OF HEADS INDICATED GENCY BATTERY PACK: GMOTE HEADS		ROUGH-IN JUNCTION BOX FOR CCTV CAMERA		₽	EQUIPMENT CONNECTION AS NOTED			GFR GROUND FAULT RELAY T GRD GROUND T	TTB TELEPHONE TERMINAL BOARD TW TWISTED	
	OTE EMERGENCY HEAD	P	PUSH BUTTON PLATE		€ 4	EQUIPMENT CONNECTION AS NOTED - WALL MOUNTED	48" TOD		HID HIGH INTENSITY DISCHARGE լ	TYP TYPICAL JCB UNIT CIRCUIT BREAKER	
EMERO	GENCY BATTERY PACK: RECESSED, CEILING MOUNT	V	TELEVISION ANTENNA OUTLET	18"	Θ_3	HEATER CONNECTION - NUMBER INDICATES KILOWATTS (3KW)			HOA HAND-OFF-AUTOMATIC HP HEAT PUMP, HORSEPOWER LIPE CONTINUE CONTINUE LIPE CO	JG UNDERGROUND JH UNIT HEATER	
EXIT S		©	CABLE TV OUTLET	CTR	6	(3KW) HEATER FAN - CEILING MOUNTED			HTR HEATER υ	JON UNLESS OTHERWISE NOTED JV UNIT VENTILATOR	
EXIT S			TELEVISION SYSTEM SPLITTER - 2 WAY, 4 WAY		СВ	ENCLOSED CIRCUIT BREAKER			HZ HERTZ V	/ VOLTS /FC VARIABLE FREQUENCY CONTROLLER	
EXIT S		CD	A/V CREDENZA LOCATION			NON-FUSED DISCONNECT SWITCH: 30A, 3P (UON)			IG ISOLATED GROUND V	VARIABLE FREQUENCY DRIVE WATTS, WIRE	
W/ DIN	MOUNTED LIGHTING FIXTURE: LE HEAD, DOUBLE HEAD	IP	A/V INPUT PLATE		(40A)	FUSED DISCONNECT SWITCH: FUSE SIZE AS INDICATED (40A)			KCMIL THOUSAND CIRCULAR MILS V	WATTS, WINCE N/ WITH NP WEATHER-PROOF	
→ POLE N	MOUNTED LIGHTING FIXTURE: LE, POLE TOP	R	A/V IN-WALL RACK		MS	MAGNETIC MOTOR STARTER			KVAR KILOVOLT AMPERES REACTIVE	KP EXPLOSION PROOF	
	TING POLE (SPORTS)	MT	A/V MONITOR TV		FVNR ₁	COMBINATION MAGNETIC MOTOR STARTER: ABBREVIATION INDICATES TYPE - FVNR, FVR, RVAT, 2S1W,			KW KILOWATTS		
		SC	A/V SCREEN CONTROL		VFC	2S2W, SST VARIABLE FREQUENCY CONTROLLER W/ FUSED DISCONNECT SWITCH		CIRCI IIT DESIGNATIONS			REV DESCRIPTION REVISIONS
		SP	A/V SCHEDULING PANEL		VFD h	VARIABLE FREQUENCY DRIVE W/ DISCONNECT SWITCH		<u>CIRCUIT DESIGNATIONS</u> <u>LIGHTING</u> A # a <u>POWER</u> #		NT DESIGNATIONS	SUBMISSION TITLE:
		ST	A/V SIGNAGE TV		Ø _{HP}	MOTOR: NUMERALS (IF SHOWN) INDICATE HP		FIXTURE TYPE CIRCUIT DESIGNATION		DESCRIPTION TCHGEAR	DOCUMENTS
		TP	A/V TOUCH PANEL		G kW	GENERATOR: NUMERALS (IF SHOWN) INDICATE KW		CIRCUIT DESIGNATION (#12AWG MINIMUM) ———————————————————————————————————	SWBD SWIT PNL PANE MCC MOT	TCHBOARD ELBOARD OR CONTROL CENTER	THIS DRAWING AND ALL COPIES THEREOF IS THE ENGINEERING, INC. THIS DRAWING MAY NOT BE I WITHIN ANY COMPUTER ENVIRONMENT OR BY AIR FORMAT WITHOUT THE WRITTEN CONSENT OF RI
		\bigcirc	DATA/TELEPHONE OUTLET, CEILING MOUNTED		\$ _M	MANUAL MOTOR STARTER W/ THERMAL OVERLOADS		SWITCH DESIGNATION ————————————————————————————————————		NSFORMER	SEAL:
		•	TELEPHONE OUTLET	18" CTR	\bigcirc $\$_{M}$	MOTOR SWITCH			FI FATBLA !	DDAMING DDECENTATION	No 25022
		∇	DATA OUTLET	18" CTR	<u>,</u>	MECHANICAL EQUIPMENT CONNECTION - WITH MOTOR		ELECTRICAL SYMBOLS NOTES	ELECTRICAL	DRAWING PRESENTATION	No. 25022
		lacksquare	TELEPHONE OUTLET, WALL MOUNTED	54" CTR	O	MECHANICAL EQUIPMENT CONNECTION - NO MOTOR		1. THIS IS A STANDARD SYMBOL LIST. SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.	<u>SYMBOL</u>	DESCRIPTION	M. SEPANA
		▼ ^E	TELEPHONE OUTLET, EMERGENCY	54" TOD	\$	CONTROL PANEL:		 REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS. PLAN AND SECTION SYMBOLS MAY ALSO BE USED ON RISER DIAGRAMS. ON SINGLE LINE DIAGRAMS FOR 3 PHASE SYSTEMS, DEVICE QUANTITY = 3, UNLESS 		VISION NUMBER	05/27/2022
		•	DATA/TELEPHONE OUTLET: UNSHADED AREA = DATA, SHADED AREA = VOICE	18"	СР	TYPE AS INDICATED	400 70 -	OTHERWISE NOTED. 5. DEVICE SHALL BE MOUNTED A MINIMUM OF 90" AFF TO BOTTOM OF DEVICE OR BELOW THE FINISHED CEILING OF NOT LESS THAN 6" TO TOP OF DEVICE, WHICHEVER IS LOWER.	DR/	AWING NOTE NUMBER	DRAWN BY: DMS DATE:
		Name	NUMERALS INDICATE QUANTITY OF WIRED JACKS	CTR	PB	MOMENTARY CONTACT START-STOP PUSHBUTTON STATION MAINTAINED CONTACT START STOP PUSHBUTTON	48" TOD	6. UNLESS OTHERWISE NOTED, ALL INTERIOR CONDUITS AND BOXES SHALL BE CONCEALED.	XX		DESIGNED BY: DMS SCALE: CHECKED BY: BAC RMF JOB N
		_	TELEPHONE OUTLET, FLOOR MOUNTED		PBM	MAINTAINED CONTACT EMERGENCY STOR BUSHBUTTON	48" TOD		XX XX SEC	CTION/ELEVATION IDENTIFICATION	PROJ. MGR.: DWZ CLIENT JOE PROJECT NAME :
			DATA OUTLET, FLOOR MOUNTED		ES	MAINTAINED CONTACT EMERGENCY STOP PUSHBUTTON STATION	48" TOD 90" TOC				CCTC FE DUBO
		V	DATA/TELEPHONE OUTLET, FLOOR MOUNTED: UNSHADED AREA = DATA, SHADED AREA = VOICE NUMERALS INDICATE QUANTITY OF WIRED JACKS			BRANCH PANELBOARD	⊎U IUC			RT PLAN AND DETAIL IDENTIFICATION	REPLACEMEN ⁻
						DISTRIBUTION PANELBOARD			XX XX		
			COMBINATION POWER & TELEPHONE OUTLET, FLOOR MOUNTED		Т	TRANSFORMER, CONCRETE PAD MOUNTED			NE\	STING LINE TYPE W ELECTRICAL WORK LINE TYPE	PROJECT ADDRESS: 3351 SUMTER HW
			COMBINATION POWER & DATA OUTLET, FLOOR MOUNTED						FU1 DEM	TURE ELECTRICAL WORK LINE TYPE MOLITION LINE TYPE ON DEMOLITION AWINGS	MANNING, SC 29
			COMBINATION POWER & DATA/TELEPHONE OUTLET, FLOOR MOUNTED						510		DRAWING TITLE : ELECTRICAL LEGE
		WAP	WIRELESS ACCESS POINT								ABBREVIATIONS
											DRAWING NUMBER:
											E-001

