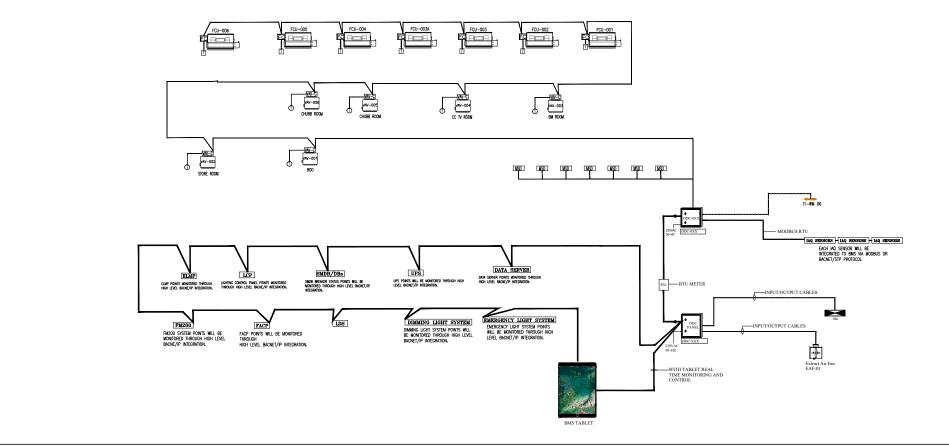
		- 1		D ELE	U 2318 CTRA	10		
		BMS I/	O DAT	A POIN	IT SCH	EDULE		
							PERIPHERAL EQUIPMENT / REMARKS	
			Al	AO	DI	DO	HL	
				HVAC		-	,	
	FAN COIL UNIT (Ref. FCU)							
	FCU start stop + 3 speed command					1		FCU Terminal Box
	Fan run status				1			Volt Free Contact
	Room temperature and Set point adjustment		1					Return air temperature sensor
_	Chw valve modulating FCU (Typical)		4	0	-		0	picy on-off actuator
_	TOTAL FOR FCU	8	1 8	8	1 8	1 8	0	ACTUATOR
	VARIABLE AIR VOLUME UNIT (Ref. VAV)	1			-		-	71010 (101)
	Damper position feedabok		1					0-10V signal
	Damper modulate command	1	- '	1				Control Relay
_				'				
	Room temperature		1					Retrun Air Temperature Sensor
	Room temperature setpoint			1				Volt Free Cortact
	1/41/ FF 1 D		2	2		0		
	VAV (Typical)				0		0	
	TOTAL FOR VAV	5	10	10	0	0	0	
	C02 & IAQ SENSORS							
	CO2 Levels						7	Modbus / BACnet
	C02 & IAQ SENSORS							
	Damper position feedabok		1					0-10V signal
	Damper modulate command			1				Control Relay
			ELI	ECTRIC	CAL			
	SMDB/ DB / MCC PANELS	1						
	Earth Fault				1			Volt Free Contact
	PMU				3			Volt Free Contact
_	Total for SMDB/MCC (Typical)		0	0	4	0	0	
	LIGHTING CONTROL PANEL (Ref. LCP)	-	Ů	·	- 4	0	Ů	
	Panel common fault	1			1			Volt Free Contact
_								
_	Seamless Intergration of LCP				1		1	BACnet Software Integration
	Total for UPS (Typical)		0	0	2	0	1	
	UPS SYSTEM	1						
	Panel Healthy Status	ļ			1			Volt Free Contact
	Common Fault Alarm				1			Volt Free Contact
	FACP	1						
	Panel Healthy Status				1			Volt Free Contact
	Common Fault Alarm				1			Volt Free Contact
	Total for Alarm (Typical)		0	0	2	0	0	



LEGEND

SYMBOL	DESIGNATION	
	25MM CONDUIT FOR BACNET MSTP COMMUNICATION CABLE FOR FCU'S	2CORE 22AWG SHIELDED CABLE
	25MM CONDUIT FOR INPUT & OUTPUT CABLE	
	25MM CONDUIT FOR M-BUS COMMUNICATION CABLE (FOR WATER AND BTU METER)	2CORE 18AWG UNSHIELDED CABL
	25MM CONDUIT FOR MODBUS COMMUNICATION CABLE(FOR PMU METER)	2CORE 18AWG SHIELDED CABLE
DDC	DDC PANEL (DIRECT DIGITAL CONTROLLER)	
CP	CONTROL PANEL	
Ф	THERMOSTAT	
FC	FCU CONTROLLER	
13	FLYING LEAD TEMPERATURE SENSOR	
01	DUCT TEMPERATURE SENSOR	
T	WALL PLATE SENSOR	
4-4	WATER METER	
ets .	BTU METER	
7	POWER MONITORING METER (BY OTHERS)	
⊼ R145	IP CONNECTIVITY (BY OTHERS)	
HMI	HMI PANEL	

1.BMS SCHEMATIC PROVIDED IS ONLY FOR GUIDANCE. CONTRACTOR TO INCLUDE A COMPLETE BMS SYSTEM MATCHING WITH DRAWINGS AND BOQ 2.CONTRACTOR SHOULD MEET LEED SPECIFICATION AND COORDINATE WITH AUTHORITY TO OBTAIN ALL NECESSARY APPROVALS AND PERMITS 3.TIME SHARING AC CONTROL TO BE CONSIDERED FOR ATM LOBBY AND SERVER ROC FCU UNITS THROUGH BMS 4.CO2 SENSORS NEED TO BE INTERFACED WITH BMS SYSTEM AND DAMPERS TO BE CONTROLLED BY BMS BASED ON THE IAQ. 5.ACTUAL QUANTITY FOR MSD & IAQ SENSORS SHALL BE PROVIDED BY CONTRACTOR 6.8MS PROTOCOLS ARE SHOWN IN THIS DRAWING / DATA POINT SCHEDULE IS ONLY INDICATIVE.
CONTRACTOR TO SUBJUIT DATA POINT SCHEDULE AND ARCH LYCOUT AS PER APPROVED MATERIAL /
PRODUCTS / PERIPHERIALS WHICH ARE INTERFACED WITH CONTROLLERS / 3RD PARTY DEVICES.

7.QUANTITIES SHOWN IN THIS DRAWING ARE INDICATIVE ONLY. CONTRACTOR TO ALLOW FOR ACTUAL QUAN OF EQUIPMENT, PERIPHERALS AND CONTROLLERS FOR INTEGRATION OF COMPLETED BMS SYSTEM B.THE ARCH LAYOUT SHOWN IS ONLY INDICATIVE. CONTRACTOR TO PROVIDE SEPARATE LOOP AS PER APPROVED MATERIAL /PERIPHERALS / CONTROLLERS PROTOCOL FOR BETTER INTEGRATION. 9.TIME SHARING PANEL FOR FCUS SHALL BE PROVIDED AND INTEGRATED WITH BMS SYSTEM.

- 1. ALL DIMENSIONS SHOWN ARE IN MILLIMETER, UNLESS OTHERWISE
- SPECIFIED.

 THE CONTRACTOR SHALL VERIFY ALL THE ACTUAL DIMENSIONS ON STIE PRIOR TO CONSTRUCTION OR INSTALLATION OF MATERIALS. THE CONTRACTOR SHALL MOTHLY DESICHER IMMEDIATELY FOR ANY DISCREPANCIES FOUND IN THE DRAWNISS.

TO	ISSUED FOR TENDER	VP	MM	10.10.2023
REV	REVISION DESCRIPTION	DWN.	CHKD.	DATE
DRAWIN	IG STATUS			

ISSUED FOR TENDER





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ENBD - ELECTRA BRANCH

ELECTRA STREET, ABU DHABI, UAE

BMS SCHEMATIC DIAGRAM



PU 23188-BN	MS-SC-300	03 OCT 2023		
DRAWING	NUMBER	ISSUED DATE		
AS	MM	NTS	A3	
DRAWN BY	CHECKED BY	DWG. SCALE	DWG. SIZE	