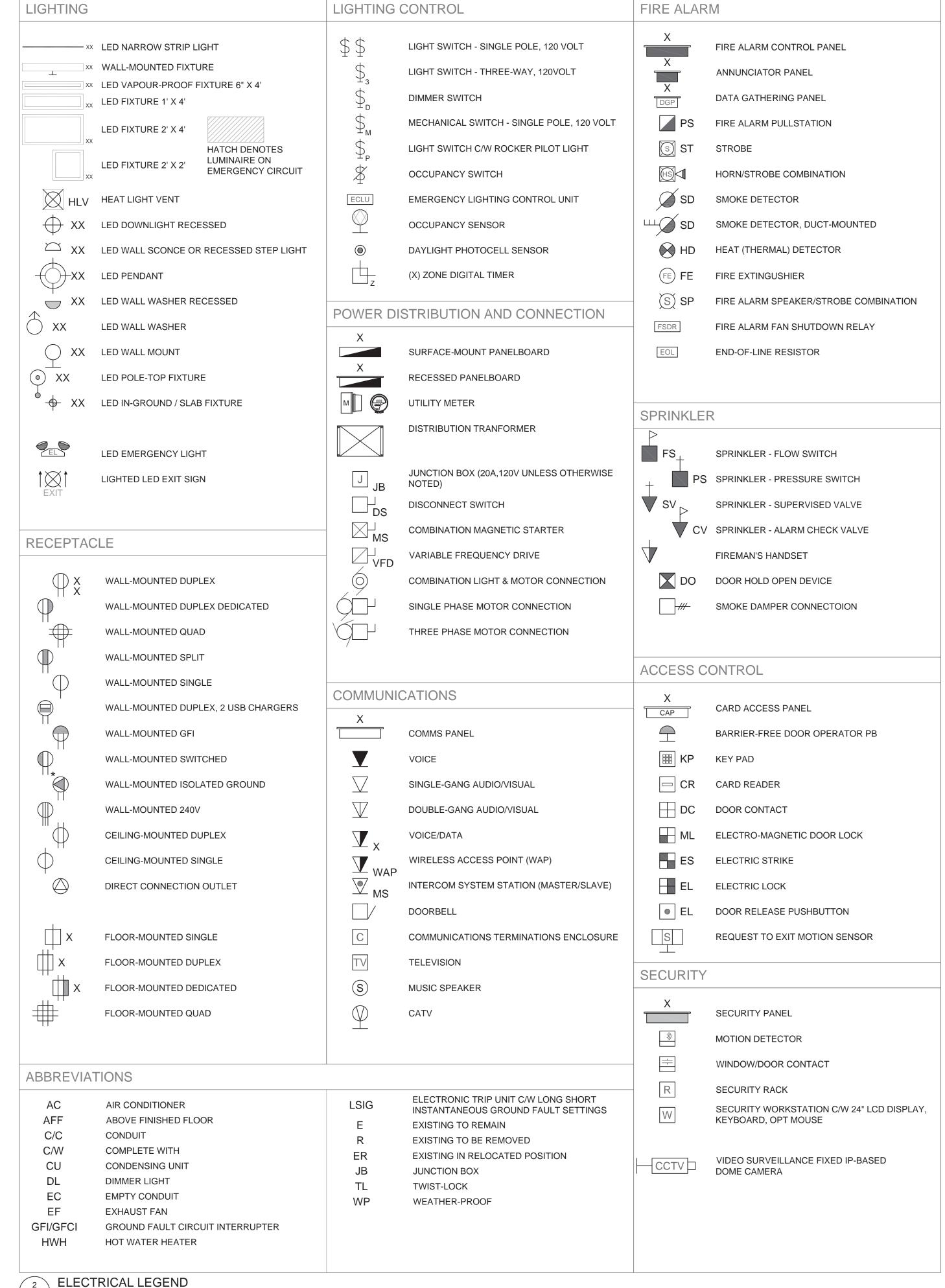
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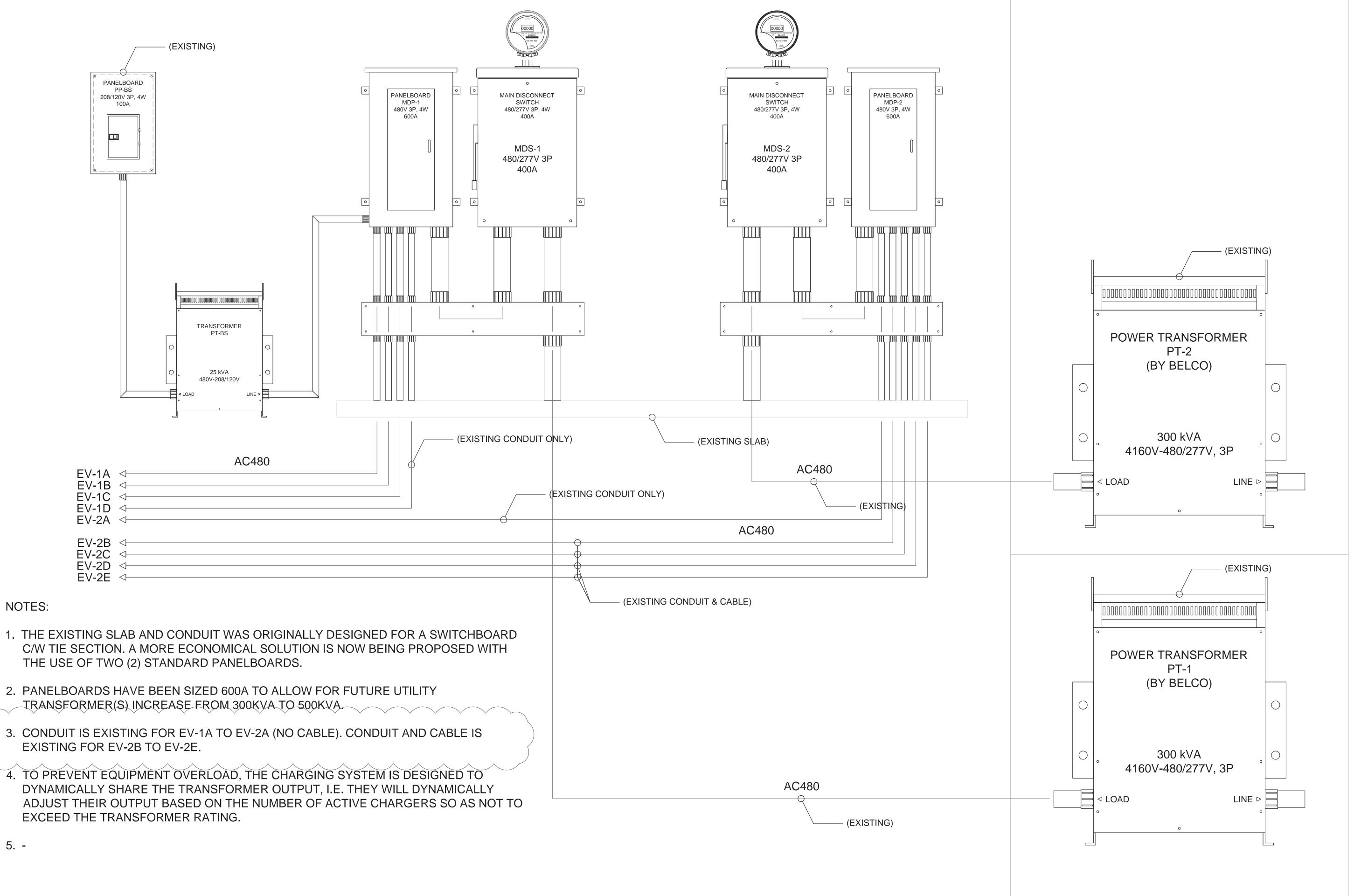
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ואכ	IERAL NOTES					
	PART 1 - GENERAL	2.06	RACEWAYS: a. All branch circuit wiring shall be in EMT conduit within building.			
01	RELATED DOCUMENTS: The General Documents apply to work specified in this Section; consult them in detail for applicable instructions.		b. Flexible metal conduit with approved type fittings may be used in limited lengths for connections to motors and recessed fixtures where it is necessary to provide flexible			
02	WORK INCLUDED: Provide all labor, materials and equipment necessary to complete all work of this Section. Without restricting the generality of the foregoing, the following items of work are included:		connections. It may also be used where the structure precludes the use of EMT. c. All raceways shall be 3/4" minimum size.			
	a. PERMITS AND FEES b. TEMPORARY POWER AND LIGHT c. SERVICE PROVISIONS AND METERBANKS d. PANELBOARDS e. TELEPHONE PROVISIONS f. RACEWAYS g. BOXES		OUTLET AND JUNCTION BOXES: a. Outlet boxes for ceiling fixtures shall be 4" octagonal EMT boxes not less than 1/2" deep provided with 3/8" galvanized malleable iron fixture stud.			
			b. Concealed outlet boxes for wall brackets, switches, and receptacles shall be a 4" square EMTC box with raised cover of sufficient depth to accomodate wall surface material.			
	h. WIRING i. GROUNDING j. FIRE ALARM		c. Exposed outlet boxes in dry locations for switches and receptacles shall be a 4" EMT box with heavy duty cover.			
	k. LIGHTING FIXTURES AND LAMPS L. WIRING DEVICES AND PLATES m. CONNECTIONS TO EQUIPMENT n. DIRECTORIES AND NAMEPLATES		d. Boxes shall be EMT where installed flush. Where boxes are installed exposed they shall be of the EMT type.			
	o. TESTING p. CLEANING AND REMOVAL OF RUBBISH q. SUBMITTALS	2.08	WIRES AND CABLES: a. Provide and install all wiring and cable as required to connect all electrical equipment and devices indicated on the plans.			
)3	RELATED WORK OF OTHER SECTIONS: a. CONCRETE AND MASONARY b. PAINTING		b. All wires #10 gauge and smaller shall be solid copper 75 degree C, and 600 volt insulation.			
)4	QUALITY ASSURANCE: a. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary		c. All wires #8 gauge and larger shall be stranded copper, 75 degree C, and 600 volt insulation.			
	crafts and who are completely familiar with the specified requirements and the methods needed for the proper performance of the work of this Section.		d. Fixture wires shall not be less than #14 gauge, and shall be type SFF-2.e. Unless indicated otherwise all light and power conductors shall be #12 gauge minimum.			
	b. All work shall be of the highest quality in conformance with the best practices of the trade and in compliance with all governing codes.		e. Offiess indicated offierwise all light and power conductors shall be #12 gauge minimum.			
)5	CODES, PERMITS, FEES AND REGULATIONS:	3.	PART 3 - EXECUTION			
	a. All work shall be carried out in conformity with the rules and regulations of the NATIONAL ELECTRIC CODE, latest edition, and of the various local agencies having jurisdiction.b. The Contractor shall give all necessary notices, obtain all permits and pay all governmental taxes, fees,		WORKMANSHIP: a. All work shall be installed in a neat workmanlike manner by competent mechanics thoroughly skilled in their respective trades and in strict accordance with code requirements and the respective manufacturers instructions.			
	deposits and other costs in connection with his work; file all necessary plans, prepare all documents and obtain necessary approvals of all agencies having jurisdiction; obtain all required Certificates of Inspection and approvals for his work and deliver same to the Architect before request for acceptance and final payment for the work.	3.02	TEMPORARY LIGHT AND POWER: a. Furnish and install temporary Light & Power as may be required by all Trades.			
06	STORAGE OF MATERIALS: a. Store materials and equipment on the premises where directed by the Owner.	3.03	SUPPORTS: a. Provide all materials and labor required to adequately support, brace and strengthen			
7	OTHER TRADES: a. Bidders shall examine the site and the complete set of Plans and Specifications covering the entire project. They shall become fully conversant with the type of general construction as well as all pertinent facts affecting the cost of carrying out the work they will contract to perform.		equipment and materials furnished as part of this work. b. All raceways, boxes, etc., shall be supported directly from the structure, independent of duct, piping or other work.			
	b. This Contractor shall cooperate to the fullest with all other trades. He shall plan his work in such a way, and furnish all necessary equipment and information to the other trades so as not to delay any other trade		c. All conduits shall be securely and independently supported so that no strain will be transmitted to outlet box and pull box supports, etc.			
8	or hinder the progress of the work. SUBMITTALS: a. Submit manufacturers technical product data literature for all materials specified herein. Indicate and high	3.04	BRANCH CIRCUITS: a. Provide all conduits, outlets, boxes, wires, switches, receptacles, etc., for a complete electrical system as shown on the drawings.			
	light on the submittals details of all items to indicate correct interpretation of the Contract Documents. Include submittals for the following: 1. FIRE PROTECTION SYSTEM		b. Contractor shall carefully check the Mechanical drawings and specifications to establish the extent of power and control wiring to be provided. Control wiring shall be the responsibility of			
	2. LIGHTING FIXTURES 3. WIRING DEVICES 4. PANELBOARDS 5. CONTACTORS TIME CLOCKS	3.05	others. GROUNDING:			
9	5. CONTACTORS/TIME CLOCKSCONFLICTIONS:a. Any contradictions between the written specifications and drawings shall be considered ambiguous, and		 a. The electrical systems shall be completely and effectively grounded as required by the NATIONAL ELECTRIC CODE. All ground systems and connections shall be mechanically secure and electrically continuous. 			
	will be the responsibility of the Bidder to secure clarification prior to Bidding.	3.06	LOCATION OF OUTLETS AND ELECTRICAL EQUIPMENT: a. The plans show conditions as accurately as possible but do not necessarily show all the fittings, etc., necessary to suit building conditions. Locations of outlets, appliances, etc., are			
	PART 2 - PRODUCTS GENERAL: a. All material, equipment, and installations shall conform to the requirements of the following		approximate and the Contractor shall be responsible for the proper locations in order to make them fit with the architectural details and also instructions from the Architects representative on the job site.			
	codes: 1. INTERNATIONAL BUILDING CODE (IBC)		b. Before installation of conduit for switches, receptacles, ceiling lights or motors, the Owner, Architect, reserve the right to move each outlet location to better adapt them for usage, prior to installation, within a distance of three feet as presently indicated, at no additional cost to the			
	 INTERNATIONAL MECHANICAL CODE (IMC) NATIONAL ELECTRIC CODE (NEC) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 		Owner. c. Unless indicated otherwise on the drawings, all devices shall be mounted at the height			
2	5. ANY LOCAL JURISDICTIONAL CODES SERVICE PROVISIONS:		specified. d. The Contractor shall carefully check with other Contractors to coordinate the location of			
	a. REINSTATE EXISTING PRIMARY AND SECONDARY ELECTRIC AND TELEPHONE SERVICES IN MAIN ELECTRICAL ROOM.		electrical equipment with work of other trades. e. Verify all door swings before roughing in for switches.			
3	PANELBOARDS: a. REINSTATE EXISTING PANELBOARDS AS DETAILED ON THE DRAWINGS COMPLETE WITH REQUIRED CIRCUIT BREAKERS.		f. All electrical installations in area of new construction must be flush mounted. With the exception of surface mounted lighting fixtures, electrical equipment is not to be surface mounted			
1	LIGHTING FIXTURES AND LAMPS: a. The Contractor shall provide all lighting fixtures, poles, and luminaires in conformance with	3.07	without the approval of the ENGINEERr or ARCHITECT. CLEANING AND REMOVAL OF RUBBISH: a. Contractor shall at all times keep the premises free of all waste, surplus materials, rubbish or			
	the fixture schedule on the drawings. b. Provide lamps in all lighting fixtures and devices in accordance with the lighting fixture		debris which is caused by his employees or resulting from his work. b. After all equipment and devices have been installed, remove all labels, stickers, stains,			
	c. Lamps shall be as indicated on fixture schedule.	3.08	temporary covers, etc. Identification plates on all equipment GUARENTEE:			
	d. Furnish photocell, time clocks, and contactors as required for site lighting control.	3.00	a. All material, equipment and installation shall be guarenteed for a period of ONE (1) YEAR from the date od acceptance, defects which appear during that period shall be corrected at this contractor's expense.			
5	WIRING DEVICES: a. Furnish and install quality devices bearing UL label for the service and electrical rating where used.		For the same period, the electrical contractor shall be responsible for any damage to the premises caused by defects in workmanship or in the work or equipment furnished and/or			
	1. Switches shall be 20 ampere, 120/277 volt A.C. rated as scheduled in legend.		installed by this contractor.			
	2. GFCI devices shall be 20 ampere duplex w/U ground pin.					



N.T.S

DETAILS





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GOVERNMENT OF BERMUDA
DOCKYARD BUS DEPOT
DEPARTMENT OF PUBLIC TRANSPORT
PENDER ROAD, SANDY'S

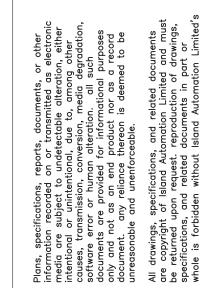
480V MAIN DISTRIBUTION
SCALE:
SCALE:

	ELECTRIC SERVICE PANEL SCHEDULE							
	DESCRIPTION	BREAKERS BARS/POLES B			В	BREAKERS	DECODIDITION	
TALS TAL)		POLE-AMP	L	L1 L2 L3 POLE-AMP		POLE-AMP	DESCRIPTION	
ARD 'MDP-1' JG PEDESTA (OR EQUAL) -4W, 14KA (N	CHARGING STATION EV-1A	3P-125A	1 - 3 - 5 -		2 4 6	3P-125A	CHARGING STATION EV-1B	
PANELBOARD CHARGING PE SIEMENS (OR A 480V 3P-4W,	CHARGING STATION EV-1C	3P-125A	7 9 11		8 10 12	3P-125A	CHARGING STATION EV-1D	
PAI EV CF SIE SIE 600A 4	CHARGING STATION EV-1E	3P-125A	13 – 15 – 17 –		14 16 18		-	
	TVSS (PRICE AS OPTION)	-	19 – 21 – 23 –		20 22 24	3P-30A	FEED TO PP-BS via PT-BS	

	ELECTRIC SERVICE PANEL SCHEDULE							
	DESCRIPTION	BREAKERS	BARS/POLES	BREAKERS	DESCRIPTION			
7-2' TALS AL)		POLE-AMP	L1 L2 L3	POLE-AMP				
ARD 'MDP-2 IG PEDESTA (OR EQUAL) -4W, 14KA (I	CHARGING STATION EV-2A	3P-125A	1 2 3 • 4 5 • 6	3P-125A	CHARGING STATION EV-2B			
PANELBOARD CHARGING PI SIEMENS (OR A 480V 3P-4W,	CHARGING STATION EV-2C	3P-125A	7 9 10 12	3P-125A	CHARGING STATION EV-2D			
PAI EV CF SIE SIE 600A 4	CHARGING STATION EV-2E	3P-125A	13	-	-			
	TVSS (PRICE AS OPTION)	-	19 20 21 22 23 24	-	-			

NOTES:

- 1. PANELBOARDS SHALL BE SIEMENS, EATON, SQUARE-D (OR APPROVED EQUAL).
- 2. PANELBOARD RATING SHALL BE 14KA (MIN).
- 3. MAIN CIRCUIT BREAKER TO BE 100% RATED.
- 4. ALL BRANCH CIRCUIT BREAKERS TO BE 100% RATED.
- 5. MAIN CIRCUIT BREAKER TO BE DIALED BACK TO 400A.





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GOVERNMENT OF BERMUDA

DOCKYARD BUS DEPOT

DEPARTMENT OF PUBLIC TRANSPORT
PENDER ROAD, SANDY'S

480V MAIN DISTRIBUTION
PANEL SCHEDULE

SCALE:

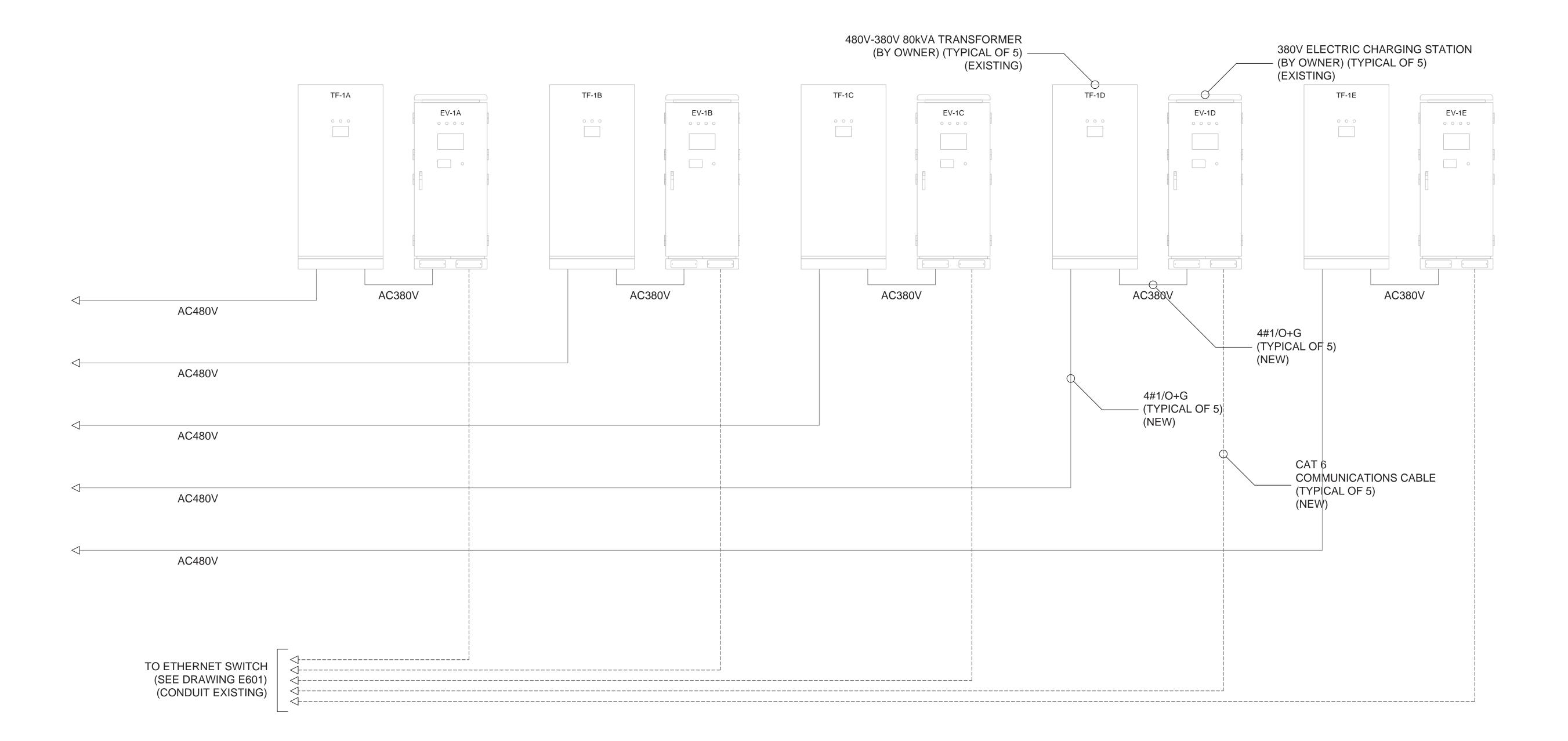


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GOVERNMENT OF BERMUDA
DOCKYARD BUS DEPOT
DEPARTMENT OF PUBLIC TRANSPORT
PENDER ROAD, SANDY'S

480V MAIN DISTRIBUTION
SCALE:
SCALE:

EXISTING



NOTES:

- 1. ALL POWER & COMMS CONDUIT IS EXISTING.
- 2. ALL POWER & COMMS CABLING IS NEW.

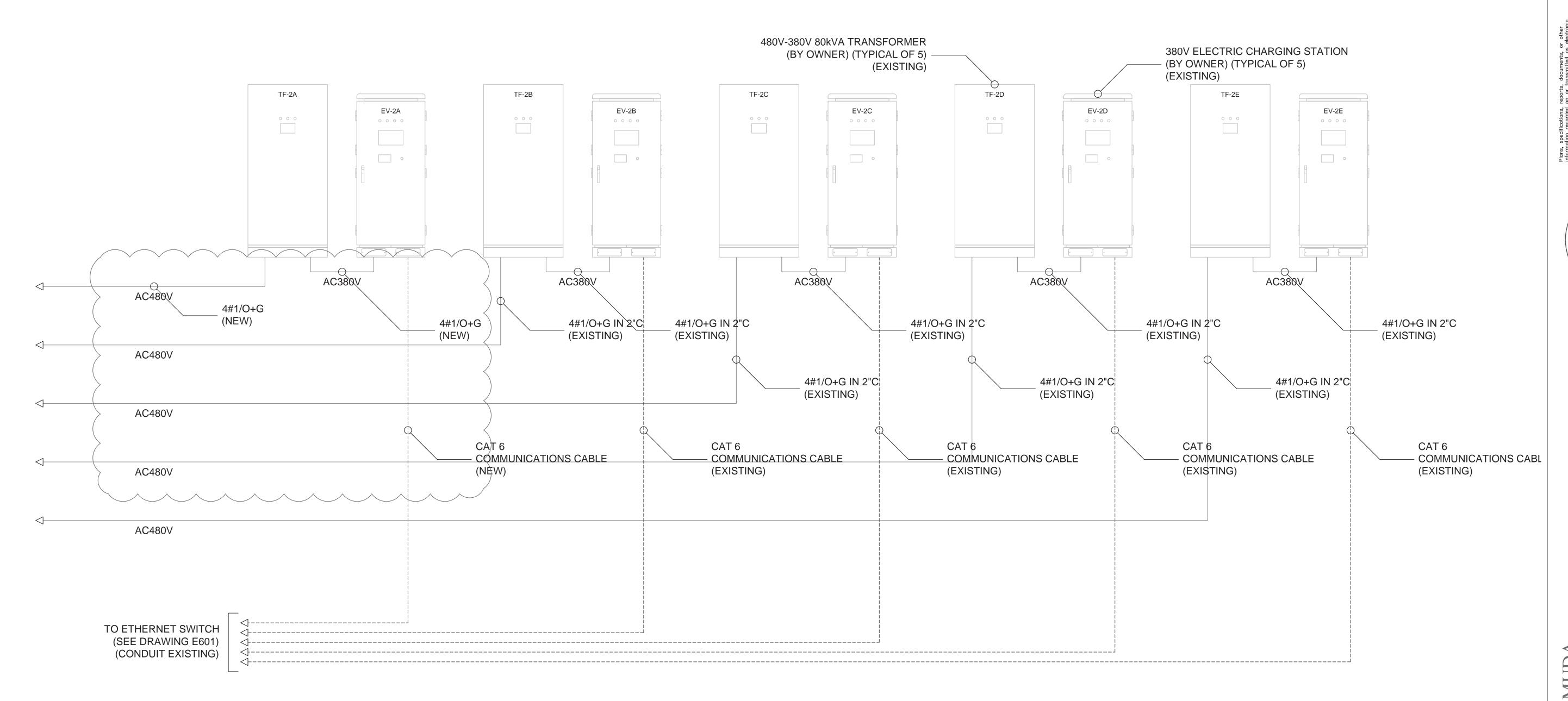


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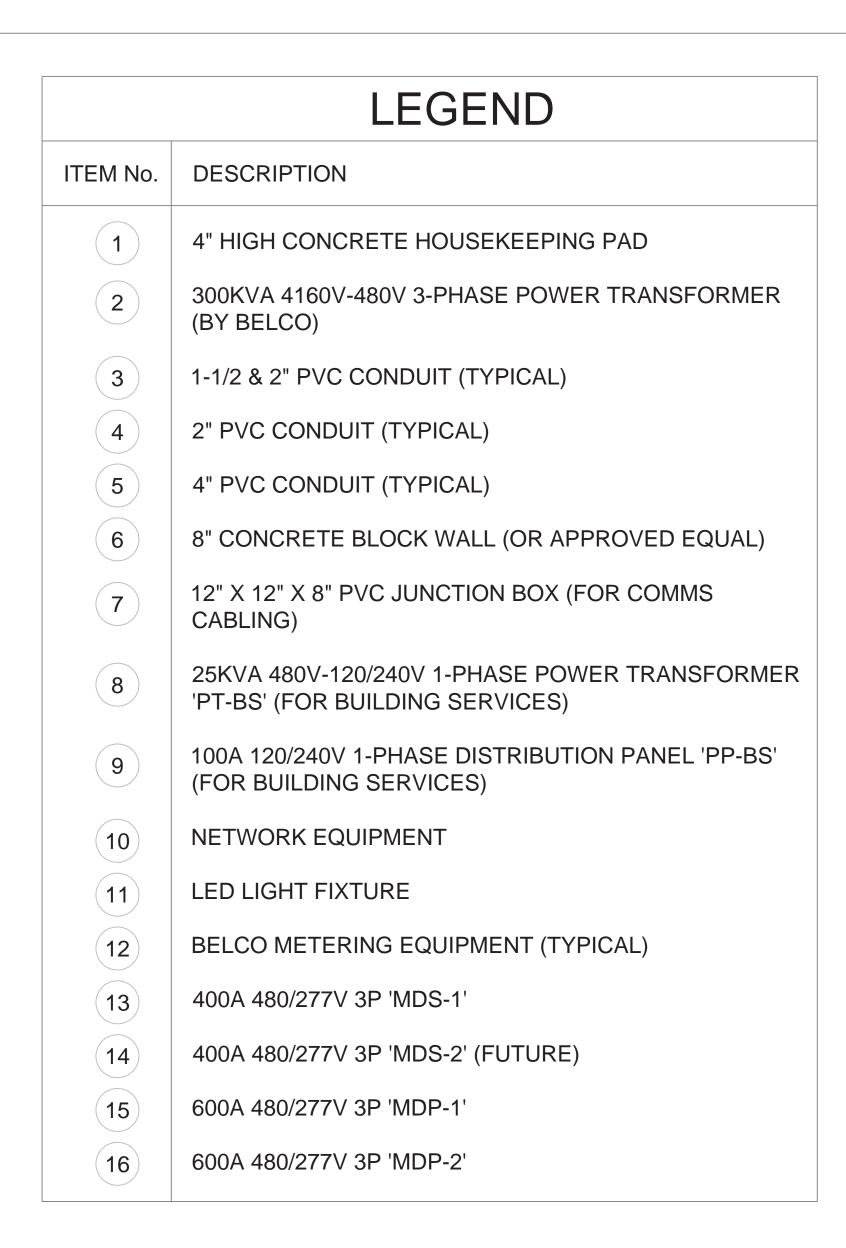
GOVERNMENT OF BERMUDA DOCKYARD BUS DEPOT

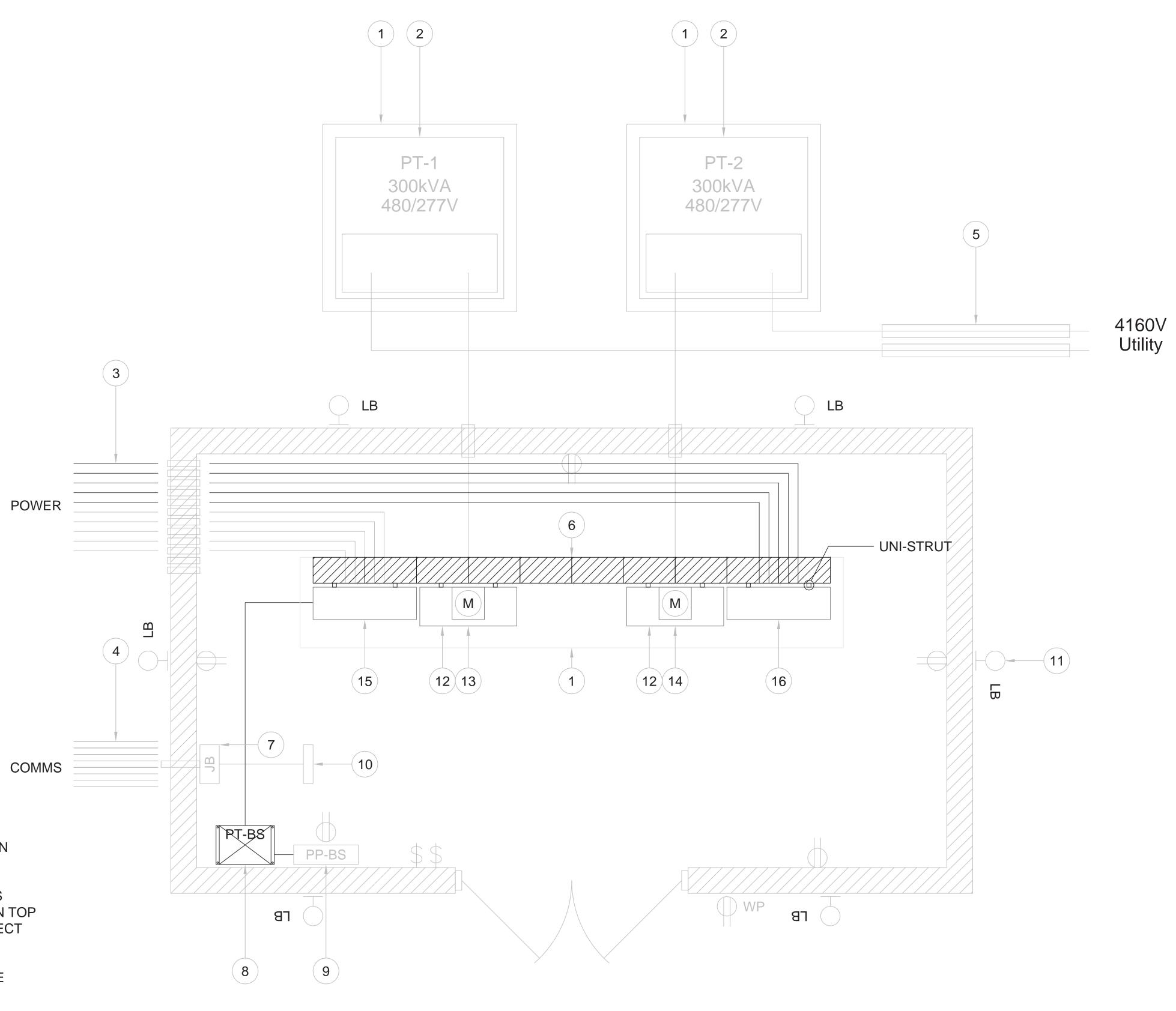
EXISTING



NOTES:

- 1. ALL POWER & COMMS CONDUIT IS EXISTING.
- 2. POWER & COMMS CABLING FOR TF-2A & EV-2A IS NEW.
- 3. POWER & COMMS CABLING FOR TF-2B & EV-2B TROUGH TF2-E & EV-2E IS EXISTING.
- 4. CONTRACTOR TO ALLOW FOR DISCONNECTION OF THE FOUR (4) AC480V CONDUCTORS FROM THE EXISTING TEMPORARY PANELBOARD AND RECONNECTION TO THE NEW PANELBOARD.





NOTES:

- 1. EXISTING TEMPORARY MAIN DISCONNECT SWITCH AND MAIN DISTRIBUTION PANEL SHALL BE REMOVED AND RETURNED TO OWNER.
- 2. 8" CONCRETE BLOCK WALL (OR SIMILAR APPROVED STRUCTURE- SUCH AS UNI-STRUT C/W FLOOR-TO-CEILING BRACING) SHALL BE CONSTRUCTED ON TOP OF THE EXISTING HOUSEKEEPING PAD TO SUPPORT MOUNTING DISCONNECT SWITCHES AND DISTRIBUTION PANELBOARDS.
- 3. EXISTING POWER PANEL PP-BS TO REMAIN AND BE RECONNECTED TO THE NEW DISTRIBUTION PANELBOARD 'MDP-1' VIA NEW TRANSFORMER 'PT-BS'.
- 4. ALL EXISTING COMMS INFRASTRUTURE TO REMAIN.
- 5. ALL EXISTING BUILDING SERVICES TO REMAIN.

1 ELECTRICAL ROOM

E501 LAYOUT N.T.S

E501

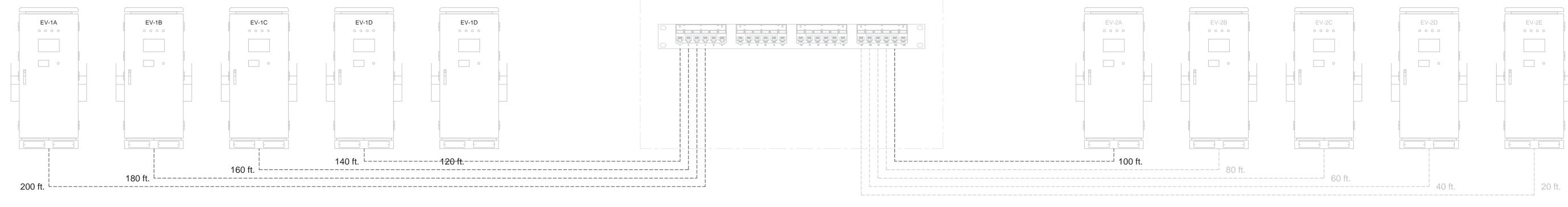
GOVERNMENT OF BERMUDA DOCKYARD BUS DEPOT

March 2023

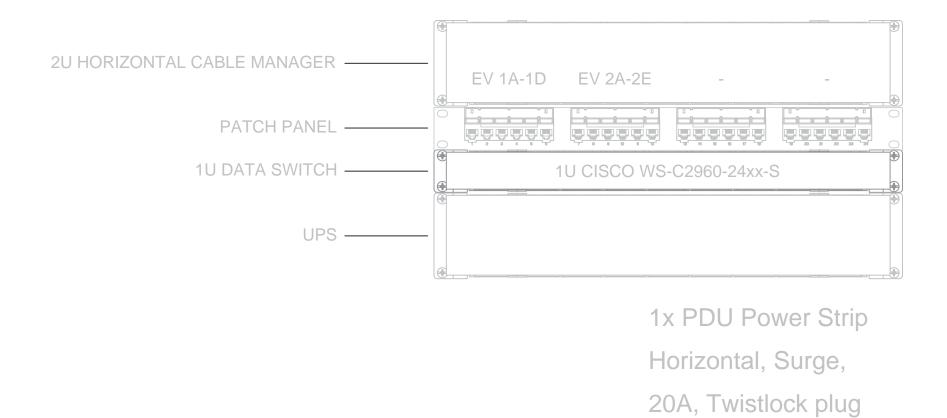
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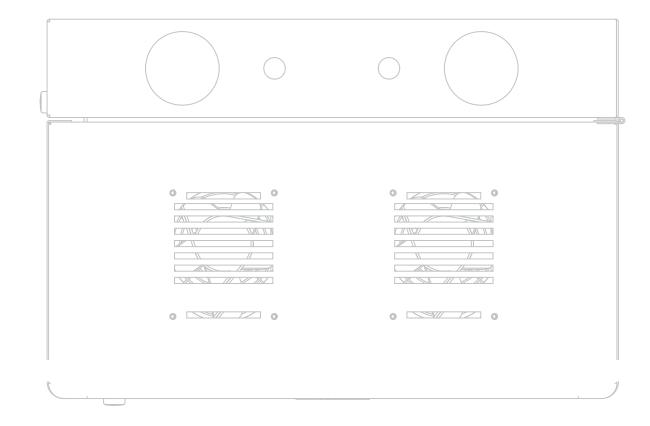
E601

(EXISTING) (EXISTING) IT/COMMUNICATIONS









WALL MOUNT CABINET 6RU LIGHT DUTY SERIES FRONT DOOR

PLEXIGLASS SIDE PANELS VENTED TOP AND BOTTOM PANELS 2 FAN

NOTES:

- 1. COMMS INFRASTRUCTURE IS EXISTING & COMMS CABLING TO THE EXISTING LAST FOUR (4) CHARGING PEDESTALS IS EXISTING.
- 2. CONTRACTOR TO ALLOW FOR SIX (6) RUNS OF CAT6 CABLE BETWEEN COMMS EQUIPMENT IN THE ELECTRICAL ROOM AND THE FIRST SIX (6) CHARING PEDESTALS. DISTANCES ARE APPROXIMATE.
- 3. COMMS CABLE IS TO BE TERMINATED BOTH ENDS AND TESTED.