

SCHEDULE OF LOADS

LOAD DISTRIBUTION PANEL 1 - TERMINAL MANAGEMENT OFFICE BUILDING (CONVENIENCE OUTLETS)																				
CKT NO.	C.B. RATING						CONNECTED LOADS					VA	AMPS			FEEDER		RACEWAY		
	VOLTS	AT	AF	POLE	LO	CO	SPO	EL	EF	OTHERS	DESCRIPTION OF LOADS		AB	BC	CA	WIRE	SIZE (mm2)	TYPE	SIZE (mm2)	CONDUIT
1	230	20	50	2		9		2			GROUND FLOOR CONVENIENCE OUTLET (CASHIER OFFICE, STORAGE ROOM, DIVISION MANAGERS LOUNGE, DIVISION MANAGERS OFFICE, AND T&B)	1980	8.61			2	3.5 - 2.0	THHN	25	uPVC
2	230	20	50	2		10		3			GROUND FLOOR CONVENIENCE OUTLET (OPERATION, LOBBY, MENS AND WOMENS RESTROOM)	2340		10.17		2	3.5 - 2.0	THHN	25	uPVC
3	230	20	50	2		6		1			SECOND FLOOR CONVENIENCE OUTLET (MENS AND WOMENS RESTROOM, KITCHEN, AND DINING AREA)	1260			5.48	2	3.5 - 2.0	THHN	25	uPVC
4	230	20	50	2		8		2			SECOND FLOOR CONVENIENCE OUTLET (MENS AND WOMENS QUARTERS)	1800	7.83			2	3.5 - 2.0	THHN	25	uPVC
5	230	20	50	2		6					SECOND FLOOR CONVENIENCE OUTLET (LOUNGE AND COVERED TERRACE)	1080		4.70		2	3.5 - 2.0	THHN	25	uPVC
6	230	30	50	2			1				SECOND FLOOR SPECIAL PURPOSE OUTLET - REFRIGERATOR	1000		4.35		2	5.5 - 2.0	THHN	25	uPVC
7	230	30	50	2			1				SECOND FLOOR SPECIAL PURPOSE OUTLET - RANGE	3000			13.04	2	5.5 - 2.0	THHN	25	uPVC
8	230	20	50	2						1	SPARE	1500	6.52			2	3.5 - 2.0	THHN	25	uPVC
TOTAL	230	75	100	3	0	39	2	8	0	1	MAIN	13960	22.96	19.22	18.52	3	22 - 8.0	THWN	32	uPVC

COMPUTATION OF CONNECTED LOADS

COMPUTATION:
 $I_L = 39.77 \text{ AMPERES} + 5.65 \text{ AMPERES}$
 $I_L = 45.42 \text{ AMPERES}$

FOR SUB-PROTECTION DEVICE:
 $USE = 75A1, 100A1, 3\text{-POLE } 230 \text{ VOLTS}$
 $18 \text{ KAC (MINIMUM) BOLT-ON TYPE MCCB}$

FOR SUB-FEEDER CONDUCTOR:
 $USE = 3C - 22mm^2 \text{ THHN COPPER STRANDED WIRE IN } \phi 32mm \text{ PMS } 14 \text{ CONDUIT PIPE}$
 $1C - 8.0mm^2 \text{ THHN GROUNDING WIRE}$

SCHEDULE OF LOADS

LOAD DISTRIBUTION PANEL 2 - TERMINAL MANAGEMENT OFFICE BUILDING (LIGHTING OUTLETS)																				
CKT NO.	C.B. RATING						CONNECTED LOADS					AMPS				FEEDER		RACEWAY		
	VOLTS	AT	AF	POLE	LO	CO	SPO	EL	EF	OTHERS	DESCRIPTION OF LOADS	VA	AB	BC	CA	WIRE	SIZE (mm2)	TYPE	SIZE (mm2)	CONDUIT
1	230	20	50	2	13						GROUND FLOOR LIGHTING OUTLET (CASHIER OFFICE, LOBBY, AND HALLWAY)	1040	4.52			2	3.5 - 2.0	THHN	25	uPVC
2	230	20	50	2	14						GROUND FLOOR LIGHTING OUTLET (ENTRANCE AND OPERATIONS)	1120		4.87		2	3.5 - 2.0	THHN	25	uPVC
3	230	20	50	2	13				1		GROUND FLOOR LIGHTING OUTLET (DIVISION MANAGERS OFFICE, LOUNGE, T&B, AND STORAGE ROOM)	1220			5.30	2	3.5 - 2.0	THHN	25	uPVC
4	230	20	50	2	6						GROUND FLOOR LIGHTING OUTLET (STAFF AREA)	480	2.09			2	3.5 - 2.0	THHN	25	uPVC
5	230	20	50	2	12						GROUND FLOOR LIGHTING OUTLET (LOBBY)	960			4.17	2	3.5 - 2.0	THHN	25	uPVC
6	230	20	50	2	12				2		GROUND FLOOR LIGHTING OUTLET (MEN'S AND WOMEN'S RESTROOM)	1320		5.74		2	3.5 - 2.0	THHN	25	uPVC
7	230	20	50	2	18						SECOND FLOOR LIGHTING OUTLET (MEN'S AND WOMEN'S QUARTERS)	1440	6.26			2	3.5 - 2.0	THHN	25	uPVC
8	230	20	50	2	17				1		SECOND FLOOR LIGHTING OUTLET (KITCHEN, DINING, AND HALLWAY)	1540		6.70		2	3.5 - 2.0	THHN	25	uPVC
9	230	20	50	2	8						SECOND FLOOR LIGHTING OUTLET (TERRACE AND STAIRS)	640			2.78	2	3.5 - 2.0	THHN	25	uPVC
10	230	20	50	2	18				2		SECOND FLOOR LIGHTING OUTLET (MEN'S AND WOMEN'S RESTROOM)	1800			7.83	2	3.5 - 2.0	THHN	25	uPVC
11	230	20	50	2	9						SECOND FLOOR LIGHTING OUTLET (ROOF EAVES)	720		3.13		2	3.5 - 2.0	THHN	25	uPVC
12	230	20	50	2						1	SPARE	1500	6.52			2	3.5 - 2.0	THHN	25	uPVC
TOTAL	230	50	100	3	140	0	0	0	6	1	MAIN	13780	19.39	20.43	20.09	3	14 - 8.0	THWN	32	uPVC

COMPUTATION OF CONNECTED LOADS

COMPUTATION:
 $I_L = 35.38 \text{ AMPERES}$

FOR SUB-PROTECTION DEVICE:
 $USE = 50A1, 100A1, 3\text{-POLE } 230 \text{ VOLTS}$
 $10 \text{ KAC (MINIMUM) BOLT-ON TYPE MCCB}$

FOR SUB-FEEDER CONDUCTOR:
 $USE = 3C - 14mm^2 \text{ THWN COPPER STRANDED WIRE IN } \phi 32mm \text{ PMS } 14 \text{ CONDUIT PIPE}$
 $1C - 8.0mm^2 \text{ THHN GROUNDING WIRE}$

PROJECT TITLE

EMERGENCY MAINTENANCE OF ROOFING, CEILING AND ELECTRICAL SYSTEM AT TMO BUILDING

SHEET NO.



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