

SCHEDULE OF LOADS

LOAD DISTRIBUTION PANEL 3 - TERMINAL MANAGEMENT OFFICE BUILDING (ACU LOADS)																					
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	30	50	2			1				1.0HP SPLIT-TYPE ACU (GF - CASHIERS OFFICE)	1200	5.22		2	5.5 - 2.0	THHN	25	uPVC		
2	230	40	50	2			1				3-TONNER STANDING-TYPE ACU (GF - LOBBY/RECEIVING AREA)	4200	18.26		2	5.5 - 2.0	THHN	25	uPVC		
3	230	30	50	2			1				1.5HP SPLIT-TYPE ACU (GF - DIVISION MANAGERS LOUNGE)	1800		7.83	2	5.5 - 2.0	THHN	25	uPVC		
4	230	30	50	2			1				1.0HP SPLIT-TYPE ACU (GF - DIVISION MANAGERS OFFICE)	1200		5.22	2	5.5 - 2.0	THHN	25	uPVC		
5	230	40	50	2			1				3-TONNER STANDING-TYPE ACU (GF - DINING AREA)	4200		18.26	2	5.5 - 2.0	THHN	25	uPVC		
6	230	30	50	2			1				1.0HP SPLIT-TYPE ACU (OPERATIONS)	1200		5.22	2	5.5 - 2.0	THHN	25	uPVC		
7	230	30	50	2			1				2.0HP SPLIT-TYPE ACU (2F - WOMEN'S QUARTERS)	2200		9.57	2	5.5 - 2.0	THHN	25	uPVC		
8	230	30	50	2			1				2.0HP SPLIT-TYPE ACU (2F - MEN'S QUARTERS)	2200		9.57	2	5.5 - 2.0	THHN	25	uPVC		
9	230	30	50	2			1				SPARE	1500		6.52	2	5.5 - 2.0	THHN	25	uPVC		
10	230	30	50	2			1				SPARE	1500	6.52		2	5.5 - 2.0	THHN	25	uPVC		
TOTAL	230	100	125	3	0	0	10	0	0	0	MAIN	21200	30.00	30.87	31.30	3	30 - 8.0	THWN	40	uPVC	

COMPUTATION:
 $I_t = 54.21 \text{ AMPERES} + 7.91 \text{ AMPERES}$
 $= 62.12 \text{ AMPERES}$

FOR SUB-PROTECTION DEVICE:
 $USE = 100A\text{T}, 125A\text{F}, 3\text{-POLE } 230 \text{ VOLTS}$
 $18 \text{ KMC (MINIMUM) BOLT-ON TYPE MCCB}$

FOR SUB-FEEDER CONDUCTOR:
 $USE = 3C - 30mm^2 \text{ THHN COPPER STRANDED WIRE IN } \phi 40mm \text{ PMS } 14 \text{ CONDUIT PIPE}$
 $1C - 8.0mm^2 \text{ THHN GROUNDING WIRE}$

SCHEDULE OF LOADS

MAIN DISTRIBUTION PANEL - TERMINAL MANAGEMENT OFFICE BUILDING																				
CKT NO.	C.B. RATING						CONNECTED LOADS						RACEWAY							
	VOLTS	AT	AF	POLE	LO	CO	SPO	EL	EF	OTHERS	DESCRIPTION OF LOADS	VA	AMPS			FEEDER		SIZE (mm2)	CONDUIT	
1	230	75	100	3		39	2	8		1	LOAD DISTRIBUTION PANEL 1 - CONVENIENCE OUTLET	13960	22.96	19.22	18.52	3	22 - 8.0	THHN	32	uPVC
2	230	50	100	3	140				6	1	LOAD DISTRIBUTION PANEL 2 - LIGHTING OUTLETS	13780	19.83	16.52	17.30	3	14 - 8.0	THHN	32	uPVC
3	230	100	125	3			10				LOAD DISTRIBUTION PANEL 3 - ACU LOADS	21200	30.00	30.87	31.30	3	30 - 8.0	THHN	40	uPVC
4	230	30	50	3							SPARE									
TOTAL	230	150	200	3	140	39	12	8	6	2	MAIN	48940	72.79	66.61	67.12	3	50 - 14	THWN	50	uPVC

TOTAL LOADS:
LIGHTING LOADS = 12,280VA
SMALL APPLANCE LOADS = 8,460VA
TOTAL = 20,740VA
20,000VA OR LESS @ 50% D.F. = 10,000VA
REMAINDER @ 40% D.F. = 296VA
TOTAL = 10,296VA

OTHER LOADS:
1.0HP SPLIT-TYPE ACU (3 UNITS) = 3,600VA
1.5HP SPLIT-TYPE ACU (1 UNIT) = 1,800VA
2.0HP SPLIT-TYPE ACU (2 UNITS) = 4,400VA
3-TONNER STANDING-TYPE ACU (2 UNITS) = 8,400VA
REFRIGERATOR = 1,000VA
RANCE = 3,000VA
SPARE (4 SETS) = 6,000VA
TOTAL = 28,200VA

COMPUTATION:
 $I_t = 96.63 \text{ AMPERES} \times 1.25$
 $I_t = 120.79 \text{ AMPERES}$

MAIN PROTECTION DEVICE:
 $USE = 150A\text{T}, 200A\text{F}, 3\text{-POLE } 230 \text{ VOLTS}$
 $18 \text{ KMC (MINIMUM) BOLT-ON TYPE MCCB}$

MAIN FEEDER CONDUCTOR:
 $USE = 3C - 50mm^2 \text{ THWN COPPER STRANDED WIRE IN } \phi 50mm \text{ PMS } 14 \text{ CONDUIT PIPE}$
 $1C - 14mm^2 \text{ THHN GROUNDING WIRE}$