

## Ш $\rightarrow$ <u>'</u>2 SINGLE LINE DIAGRAM

# ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, EXISTING APPLICABLE ORDINANCES, RULES AND REGULATIONS OF THE LOCAL GOVERNMENT AND WITH THE REQUIREMENTS OF THE LOCAL POWER COMPANY.

**GENERAL NOTES:** 

- THE TYPE OF SERVICE POWER SUPPLY TO BE USED SHALL BE SINGLE-PHASE, 2-WIRE, 230V, 60 HERTZ, A.C
- THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER COMPANY SERVICE POINT.
- UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZES OF WIRE AND GALVANIZED RIGID STEEL CONDUIT TO BE USED SHALL BE 3.5mm², THHN AND 15mm NOMINAL DIAMETER, RESPECTIVELY. LIKEWISE ALL ELECTRICAL WIRES SHALL BE COLOR-CODED.
- ALL LIGHTING CIRCUIT HOMERUNS AND CONVENIENCE OUTLETS SHALL BE WIRED WITH NOT LESS THAN  $3.5~\mathrm{mm^2}$  IN SIZE.
- WHEREVER REQUIRED AND NECESSARY, PULL OR JUNCTION BOXES SHALL BE INSTALLED AT CONVENIENT AND INCONSPICUOUS LOCATION, ALTHOUGH SUCH BOXES ARE NOT SHOWN ON THE PLAN NOR MENTIONED IN THE SPECIFICATIONS.
- ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR LOCATION AND PURPOSE
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATIONS AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- 10. ALL WALL OUTLETS SHALL BE INSTALLED AT THE FOLLOWING HEIGHTS ABOVE THE FINISHED FLOOR LEVEL UNLESS NOTED IN THE PLAN.
- a) WALL SWITCHES @ 1300mm FROM FLOOR TO FINISH TO THE BOTTOM OF THE DEVICE b) WALL CONVENIENCE OUTLETS @ 300 mm FROM FLOOR TO FINISH TO THE BOTTOM OF THE DEVICE c) WALL FAN OUTLET 1800MM

11. ALL WORKS SHALL BE DONE IN GOOD WORKMANSHIP MANNER.

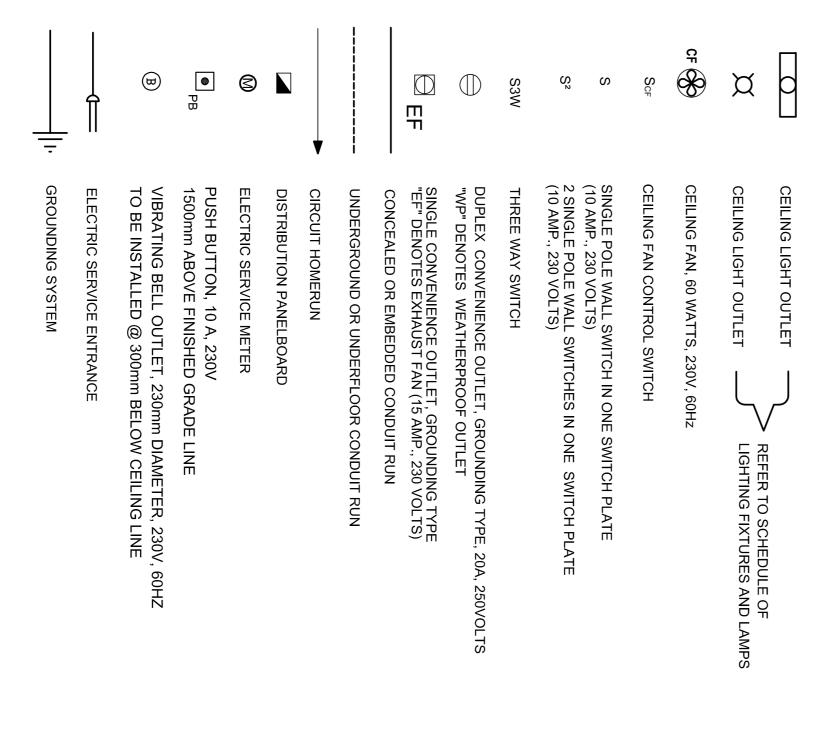
12. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

### 3100 mm (MIN.) - 5500 mm (MAX.) 1800 mm OVERHEAD SERVICE ENTRANCE: 230 V, 1Ø, 2W, 60Hz., A.C. WITH 25mmØ TYPE "F" CONDULET, WEATHERHEAD PROPOSED REINFORCED CONCRETE PEDESTAL POLE: SIZE AS REQUIRED 2 - 8.0 mm<sup>2</sup> THHN + 1 - 5.5 THHN (G) in 25mmØ RSC . P 1800 mm GROUNDING SYSTEM 16mm Ø X 2400mm LENGTH COPPERCLAD GROUNDING ROD 5.5 mm² THHN GROUND WIRE in 15mmØ C - CLAMPED TO COPPER-CLAD GROUNDING ROD FINISHED GRADE LEVEL

# SCHED ULE ᄋᆍ **LIGHTING FIXTURES AND LAMPS:**

SYMBOLS	DESCRIPTION	INSTALLATION/ MOUNTING
(1)	ONE (1)-16W, 230V,60Hz AC,LED FLUORESCENT LIGHTING FIXTURE, SURFACED CEILING BOX TYPE. MOUNTED	SURFACED CEI MOUNTED
2	TWO (2)-16W, 230V, 60Hz AC, LED FLUORESCENT LIGHTING FIXTURE, BOX TYPE	SURFACED CEILING MOUNTED
X	ONE (1)-12W, 230V, 60Hz AC,LED BULB LIGHTING FIXTURE WITH MEDIUM BASE KEYLESS TYPE PORCELAIN RECEPTACLE	SURFACED CEILING MOUNTED
NOTE:	ALL FLUORESCENT LIGHTING FIXTURES SHALL BE LED LOUVER TYPE LUMINARE FACTOR, PRE-HEAT COMPLETE WITH ALL NECESSARY ACCESSORIES, WIRED AND READY FOR USE.	=ACTOR, PRI

# **ELECTRICAL SYMBOLS:**



#### S SCALE CHEDULE 유 LOADS

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		TOTAL LOAD CURRENT	DEMAND FACTOR	HIGHEST CURRENT MOTOR	25 % CONTINUOUS LOAD	3PH + 1PH LOAD	FOR FEEDER CURRENT		TOTAL	SPACE	SPARE	LIGHTING OUTLET	CEILING FAN	CEILING FAN	LIGHTING OUTLET	LIGHTING OUTLET	LIGHTING OUTLET	CHUCKITION		SYSTEM	ENCLOSURE TYPE	PANEL LOCATION	NAME OF PANEL									
		II	II	II	II	II			5640		1500	1620	1440	720	780	720	360	AMPERE	VOLT-	230 \		GRO										
		30	10	0							230	230	230	230	230	230	230	V C F	5	230 V, 1PH, 60HZ	NEMA 1	GROUND FLOOR	DPA									
		1.36	100%	.00	0.00	30.36			30.36		6.52	7.04	6.26	3.13	2.71	3.13	1.57	AMTOR		HZ		OR										
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REAKE			EEDER		EEDER	EEDER					ı		50	50	50		50	50	50	50	ΔF	CIRCUIT BREAKER	TYPE UIT BRE	G	o ×	<u></u>						
ER SIZE			SIZE				ı		2	2	2	2	2	2	2	ס	EAKER	THHN	5.5 mm <sup>2</sup>	8.0 mm <sup>2</sup>	MAIN FEEDER SIZE											
					2-				ı			2-	2-	2-	2-	2-	2-			Ž	nm²	nm²	EDER									
KAIC	P	AF	АТ		8.0 mm <sup>2</sup>	×	_					3.5 mm²	3.5 mm²	3.5 mm <sup>2</sup>	3.5 mm <sup>2</sup>	3.5 mm <sup>2</sup>	3.5 mm²	×	WIRE SI		GREEN	R,B	SIZE									
			1			NHHI					1-	- N	-2 -	1	1-	-2 -		SIZE (T	P	AF	AT											
10				5.5 mm					5.5 mm <sup>-</sup>	5.5 mm <sup>*</sup>	5.5 mm <sup>*</sup>	5.5 mm <sup>4</sup>	5.5 mm²	G						3.5 mm²	3.5 mm²	3.5 mm²	3.5 mm²	3.5 mm²	3.5 mm²	G	(NHHT)					
	50	50	50	50	50	50		<sup>2</sup> 25 mmø	CON				STUB-OUT	STUB-OUT	20 mmø PVC	20 mmø	20 mmø	20 mmø	20 mmø	20 mmø	CONDC		2	50	50	MAIN BREAKER						
					Ø RSC	CONDUIT				-OUT	-OUT	Ø PVC	Ø PVC	Ø PVC	Ø PVC	Ø PVC	Ø PVC	CONDOIL SIZE	14 512	ס	Þ	A	SIZE									

	20m GRO WITH	20 AT 2P 2P AT 4	50 AT, 2P MCCB	2-8.0 mm <sup>2</sup> THNN(G) in	3 ELECTRICAL RIS
1-5.5 mm² THHN(G) GROUND in 20mmø PVC	20mmø x 2.40m LENGTH GROUNDING ROD COPPERWELD WITH HEAVY DUTY CLAMP			2-8.0 mm² THHN, 1-5.5 mm² THNN(G) in 25mmø RSC	ELECTRICAL RISER DIAGRAM SCALE NTS.

ENUE, PASIG CITY	OF EDUCATION  OF EDUCATION	THE PHILIPPINES
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DepED	LUIS B. PURISIMA, JR.	RECOMMENDING APPROVAL :
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מאטבויטבטוגרומיו ו איז משווויטוויטוי	ALAIN DEL B PASCUA	APPROVED BY :
LOCATION: TAMSI ELEMENTARY SCHOOL	MODIFIED STANDARD DEP-ED ONE (1) STOREY, THREE (3) CLASSROOM SCHOOL BUILDING (WITH TOILET @ ONE SIDE)	PROJECT TITLE :
		PROJECT CODE:
SCHEDULE O	DEPARIMENT OF DepE  SHEET CONTENTS: GENERAL NO ELECTRICAL S SCHEDULE OF	OWNER:

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