

MPLEMENTING AGENCY: SHT NO: PROJECT TITLE/ LOCATION: APPROVED BY: ENDORSED BY REC. APPROVAL: PREPARED BY: END USER: REVIEWED Y: H D. ROBLES PRES CVSU IMPROVEMENT OF SPORTS FACILITY M. D. TEPORA CAVITE STATE P.P. CVACHIN R.P. PHINA DEAN CSPEAR PROFELEC. ENGINEER E-1 PHASE 2 UNIVERSITY S. B. BAYOT JR. DIRECTOR PLANNING AND DEVT. OFFICE R. SANCHEZ CAVITE STATE UNIVERSITY MAIN CAMPUS VPPD

3

GENERAL NOTES AND SPECIFICATIONS:

- 1. ALL WORK HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 2. ELECTRICAL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, MUNICIPAL/CITY LAWS AND ORDINANCES AND THE REGULATIONS FO THE LOCAL POWER AND TELEPHONE COMPANY.
- 3. THE JOB SHALL BE EXECUTED IN THE MOST THOROUGH PROMPT AND WORKMANLIKE MANNER EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICE. THE JOB SHALL BE DONE IN ALL ASPECTS AS REQUIRED PER PLANS AND SPECIFICATIONS AND READY FOR OPERATION.
- 4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PERSENT A GENERAL LAYOUT AND BROAD OUTLINE/DESCRIPTION OF THE PROJECT, BUT DO NOT NECESSARILY INDICATE OR DESCRIBE ACTUAL LOCATIONS, LEVELS AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADJUSTMENTS AT THE JOBSITE THAT ARE GOVERNED BY ACTUAL FIELD CONDITION.
- 5. SERVICE VOLTAGE TO THE BUILDING FROM THE POWER SOURCE SHALL BE 230V.
- 6. SERVICE ENTRANCE WIRING SHALL BE RIGID STEEL CONDUIT (RSC).
- 7. FEEDER WIRING SHALL BE ELECTRICAL METALLIC TUBING (EMT).
- 8. BRANCH CIRCUIT WIRING ELECTRICAL METALLIC TUBING (EMT).
- 9. BRANCH CIRCUIT WIRING EMBEDDED IN CONCRETE SHALL BE IN PVC PIPE WITH ADEQUATE GROUND WIRE FOR EQUIPMENT GROUNDING.
- 10. LIGHT SWITCHES SHALL BE 15A, 230VAC.
- 11. ALL MATERIALS SHALL BE BRAND NEW AND OF APPROVED TYPE FOR LOCATION AND PURPOSE INTENDED.
- 12. DEVICES, FIXTURES LOCATED OUTDOOR SHALL BE WEATHERPROOF TYPE.
- 13. MOUNTING HEIGHTS ARE:

A. LIGHT SWITCHES

B. CONVENIENCE OUTLETS

C. COUNTER TOP C.O,

D. TELEPHONE OUTLETS

1.40M ABOVE FLOOR FINISH

0.30M ABOVE FLOOR FINISH

0.30M ABOVE FLOOR FINISH

E. PANEL BOARD

T. EMERGENCY LIGHT

O.30M ABOVE FLOOR FINISH

O.30M ABOVE FLOOR FINISH

O.30M BELOW CEILING LINE

- 14. ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR DECISION.
- 15. THE ENTIRE WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF DULY REGISTERED ELECTRICAL ENGINEER.
- 16. REFER TO SHEET E-1 FOR EXACT NUMBER AND LOCATION OF DEVICES/EQUIPMENT FOR ELECTRICAL SYSTEM. ANY CONFLICT ON QUANTITY AND/OR LAYOUT MUST BE VERIFIED AND CONFIRMED TO DESIGNER/CONSULTANT.
- 17. REFER TO LOAD SCHEDULE FOR THE RATING OF INDIVIDUAL ENCL, ACB'S IN NEMA-3R.
- 18. ALL ELECTRICAL CONDUITS AND TELEPHONE SERVICE ENTRANCE THAT INSTALLED BELOW THE GROUND SHALL BE IN CONCRETE ENCASEMENT.
- 19. ANY DEVICES OR EQUIPMENT NOT REFLECTED OR SHOWN ON PLANS BUT REQUIRED TO COMPLETE THE SYSTEM MUST BE INCLUDED ON SCOPE OF WORK.
- 20. REQUEST FOR TEMPORARY POWER INTERRUPTION SHOULD BE COORDINATED TO OWNER'S REPRESENTATIVE OR DESIGNER.
- 21. THE SIZE OF GENERATOR IS 40% OF THE TOTAL VA LOAD. THIS IS INTENDED TO SUPPLY ELECTRIC POWER FOR LIGHTINGS AND OTHER IMPORTANT APPLIANCES DURING THE POWER INTERRUPTION OF MAIN POWER SOURCE.

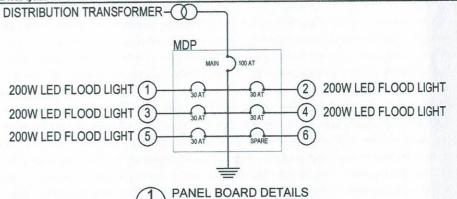
M	200W LED FLOOD LIGHT, DAYLIGHT		CIRCUIT BREAKER WITH NEMA 3R METAL ENCLOSURE
	STEEL POST WITH CONCRETE PEDESTAL	18 AC COMMENCER	ACU CONDENSER OUT DOOR UNIT WITH NEMA 3R CIRCUIT BREAKER
	36W LED PANEL LIGHTING, 4 FT. LENGTH (FL)	[18]	ACU WALL/FLOOR MOUNTED, SPLIT TYPE, INDOOR UNIT
НФ	LED EXIT/FIRE EXIT SIGN (FEL)		- 2.0 mm² THHN
8	LED SPOT LIGHT, 100W, IP65 (SL)		- 3.5 mm² THHN
<u>77</u> 0	EMERGENCY LIGHT (EL)	_	CIRCUIT HOMERUN
STSA	ONE GANG SWITCH	2	CIRCUIT NUMBER
S2 SAB	TWO GANG SWITCH		PANEL BOARD
S ₃	THREE GANG SWITCH		SERVICE ENTRANCE
S _{3W} , S _{a3W}	THREE WAY SWITCH	M	KILOWATT HOUR METER
В	TWO GANG CONVENIENCE OUTLET	77.77	CONCRETE ENCASEMENT
CF O	CEILING FAN OUTLET	-	CABLE CHAMBER
0	TWO GANG CONVENIENCE OUTLET (FLOOR MOUNTED)	И	DISTRIBUTION TRANSFORMER
b, D,	TWO GANG SPECIAL POWER OUTLET TWO GANG SPECIAL POWER OUTLET (FLOOR MOUNTED)	•	CONCRETE POLE
	THREE PIN ACU OUTLET		SERVICE ENTRANCE PEDESTAL WITH DISCONNECTING SWITCH
A.C.	ACU WINDOW TYPE	-#-	SECONDARY LINÉ

SCHEDULE OF LOADS AND COMPUTATIONS

PANEL: MDP PHASE: 1 VOLTS: 230		CABLE: 2 - 14.0 SQMM THHN + 1 - 8.0 SQMM THW CONDUIT: RSC, 32 MM DIA. LOCATION: BLEACHERS					MAIN: 100 AT, 200 AF, 2P, 230V, MCCB ENCLOSURE: NEMA 1 MOUNTING: SURFACE			
VOL13.	230			DAD IN F		CIRCUIT PROTECTION	Size of Conductor		Size Of	
OKT NO.	CIRCUIT DESCRIPTION	NUMBER OF OUTLET	Volt-Amp	VOLT	AMPERES		THHN	THW	Conduit In	Color Code
1	200 W LED FLOOD LIGHT	6	1320	230	5.74	30 AT, 2P, 230V, 10 KAIC	2-3.5		PVC, 20	1R,1B
2	200 W LED FLOOD LIGHT	12	2640	230	11.48	30 AT, 2P, 230V, 10 KAIC	2 - 3.5		PVC, 20	1R,1B
3	200 W LED FLOOD LIGHT	12	2640	230	11,48	30 AT, 2P, 230V, 10 KAIC	2 - 3.5	T. IN	PVC, 20	1R,1B
4	200 W LED FLOOD LIGHT	18	3960	230	17.22	30 AT, 2P, 230V, 10 KAIC	2 - 3.5		PVC, 20	1R,1B
5	200 W LED FLOOD LIGHT	12	2640	230	11.48	30 AT, 2P, 230V, 10 KAIC	2 - 3.5		PVC, 20	1R,18
	SPARE									
	TOTAL		13200	230	57.39	100 AT, 200 AF, 2P, 230V, MCCB	2 - 14.0	+ 1-8.0 G	RSC, 32	1R,1B,G
	MAIN FEEDER and CURRENT PROTECTION	ON COMPUTATION:	I _{FI.=}		(57.39 x DF) =	57.39	Amperes			
NOTE:			I _{CB} =		(57.39 x DF) =	57.39	Amperes			
NOTE	G - Means Ground Wire 1R- Color RED		$I_{CB} =$			57.39 MM THW IN 32 MM DIA. RSC	Amperes			

additional electrical load connection in the future is not allowed, apt redesign of electrical load system will be done.

DISTRIBUTION TRANSFORMER — 0)—



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