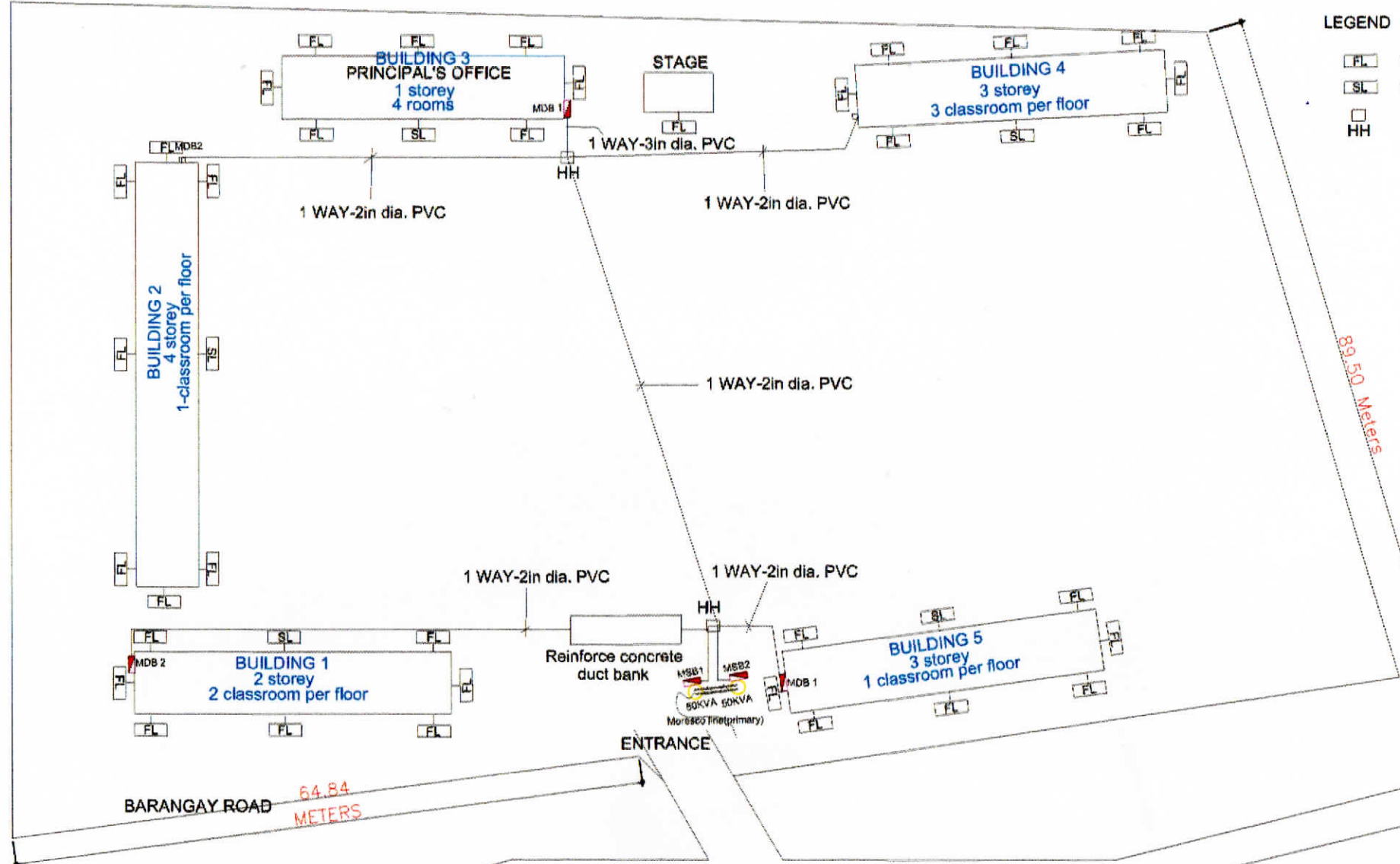


140 METERS

102.64 METERS

LEGEND

- FL FLOOD LIGHT
- SL SOLAR LIGHT
- HH HAND HOLE



SCHOOL SITE DEVELOPMENT PLAN



DIVISION OF EL SALVADOR CITY

SIGNED:	SEALED:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:
ENGR. FELIX P. MACARANDAN, PEE STA - IV EPD	PRC No.: 93738 VALIDITY DATE: 05-16-21 PTR No.: 8210822 DATE ISSUED: 1-30-19 TIN No.: 921908731 PLACE ISSUED: QUEZON, BUL.	ENGR. TOWN MAE GONZALES DEPT. PERSON ENGINEER	ROLLY B. LAEIS SODD CHIEF	OLGA C. ALONSABE, PhD., CESE ASSISTANT SCHOOLS DIVISION SUPERINTENDENT	UP-GRADING & MODERNIZATION ELECTRIFICATION PROJECT LOCATION: HINIGDAAN NATIONAL HIGH SCHOOL

LOAD SCHEDULES

MSB 2																			
PANEL ID: MSB 2 MAIN SWITCH BOARD												LOCATION							
SERVICE VOLTAGE 230V, 1-Phase, 3-Wire, 60Hz												MOUNTING							
BUS RATING 300 AMPERES																			
Cable Size in mm ²	DESCRIPTION	BREAKER		VOLT AMPERES			AMPS	CIRCUIT NO.	BUS CONN.			CIRCUIT AMP'S	VOLT AMPERES			BREAKER	DESCRIPTION	Cable Size in mm ²	
		Pole	Amperes	A	B	C			A	B	C		A	B	C				Pole
2 x 60mm ² + 1x 22mm ² (G)	MDB 1	2	200	18,400			100	1	*		2	0				2	63	SPARE	
	SPACE	2					0	3	*		4	0				2		SPACE	
	SPACE	2					0	5	*		6	0				2		SPACE	
PER PHASE VA				18,400	18,400	0							0	0	0	PER PHASE VA			
<p style="margin: 0;">BUS-A 18,400 Main Breaker Size 400 200AT/400AF MCCB LINE AMPS. 130 A</p> <p style="margin: 0;">BUS-B 18,400 Feeder Cable Entry TOP PHASE 1-Phase, 3-Wire, 60Hz</p> <p style="margin: 0;">BUS-C 0 Feeder Cable Size 2 x 60mm² + 1x 22mm² G KVA DEMAND 31.3 KVA</p> <p style="margin: 0;">TOTAL LOAD IN VA 36,800 Source TRANSFORMER WITH SPARE 20% USE: 1 x 50KVA</p>																			
MDB (at MSB 2)																			
PANEL ID: DB1 DISTRIBUTION ROLAND												LOCATION							
SERVICE VOLTAGE 230V, 1-Phase, 3-Wire, 60Hz												MOUNTING							
BUS RATING 300 AMPERES																			
Cable Size in mm ²	DESCRIPTION	BREAKER		VOLT AMPERES			AMPS	CIRCUIT NO.	BUS CONN.			CIRCUIT AMP'S	VOLT AMPERES			BREAKER	DESCRIPTION	Cable Size in mm ²	
		Pole	Amperes	A	B	C			A	B	C		A	B	C				Pole
2x 22mm ² + 1x 10mm ² (G)	BUILDING 4	2	100	9,200			90	1	*		2	80	9,200			2	100	BUILDING 2	2 x 22mm ² + 1x 10mm ² (G)
2x 14mm ² + 1x 5.5mm ² (G)	BUILDING 3	2	63	5,796			50	3	*		4	0				2	32	SPARE	
	SPACE	2					0		*									SPACE	
	SPACE	2					0	5	*		6	0				2		SPACE	
PER PHASE VA				14,996	14,996	0							9,200	9,200	0	PER PHASE VA			
<p style="margin: 0;">BUS-A 24,196 Main Breaker Size DB2 BUS LINE AMPS. 180 A</p> <p style="margin: 0;">BUS-B 24,196 Feeder Cable Entry TOP PHASE 1-Phase, 3-Wire, 60Hz</p> <p style="margin: 0;">BUS-C 0 Feeder Cable Size 2 X 60mm² + 1x 22mm² G KVA DEMAND 36.7 KVA</p> <p style="margin: 0;">TOTAL LOAD IN VA 49,392 Source MSB 2 WITH SPARE 20%</p>																			



DESIGNED: ENGR. FELIX P. MACARANDAN, PEE
STA - IV ETO

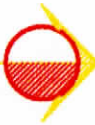
SEALED: PRC No.: 93736 VALIDITY DATE: 08-19-20
PTR No.: 8210822 DATE ISSUED: 1-30-19
TIN No.: 901808751 PLACE ISSUED: QUEZON, BUL.

NOTED BY: ENGR. JONIE MAE GONZALES
DIVISION ENGINEER

RECOMMENDING APPROVAL: ROLY B. LABIS
SCHOOL CHIEF

APPROVED BY: OLGA C. ALONSABE, PH.D., CESE
ASSISTANT SCHOOLS DIVISION SUPERINTENDENT

PROJECT TITLE: UP-GRADING & MODERNIZATION ELECTRIFICATION PROJECT
LOCATION: HINIGDAAN NATIONAL HIGH SCHOOL



LOAD SCHEDULES

MSB 1
 PANEL ID: MSB 1
 SERVICE VOLTAGE: 230V, 1-Phase, 3-Wire, 60Hz
 BUS RATING: 100 AMPERES
 LOCATION: MOUNTING

Cable Size in mm ²	DESCRIPTION	BREAKER		VOLT AMPERES			AMPS	CIRCUIT NO.	BUS CONN.			CIRC. USE	AMPS	VOLT AMPERES			BREAKER Pole/Amperes	DESCRIPTION	Cable Size in mm ²	
		Pole	Amperes	A	B	C			A	B	C			A	B	C				
2 x 22mm ² + 1 x 5.5mm ² (G)	MDB 1	2	100	3,200			80	1	*			2	80	9,200			2	100	MDB 2	2 x 22mm ² + 1 x 5.5mm ² G
	SPACE	2					0	3	*	*	*	4	0				2		SPACE	
	SPACE	2					0	5	*	*	*	6	0				2		SPACE	
PER PHASE VA				3,200	9,200	0								9,200	9,200	0	PER PHASE VA			

BUS-A: 18,400 Main Breaker Size MSB: 200AT/200AF MCCB LINE AMPS: 136 A
 BUS-B: 18,400 Feeder Cable Entry: TOP PHASE: 1-Phase, 3-Wire, 60Hz.
 BUS-C: 0 Feeder Cable Size: 2 x 60mm² + 1 x 22mm² G KVA DEMAND: 31.3 KVA
 TOTAL LOAD IN VA: 36,800 Source: TRANSFORMER WITH SPARE: 20% USE: 1 x 60KVA

MSB 1
 PANEL ID: MSB 1
 SERVICE VOLTAGE: 230V, 1-Phase, 3-Wire, 60Hz
 BUS RATING: 200 AMPERES
 LOCATION: MOUNTING

Cable Size in mm ²	DESCRIPTION	BREAKER		VOLT AMPERES			AMPS	CIRCUIT NO.	BUS CONN.			CIRC. USE	AMPS	VOLT AMPERES			BREAKER Pole/Amperes	DESCRIPTION	Cable Size in mm ²	
		Pole	Amperes	A	B	C			A	B	C			A	B	C				
2 x 22mm ² + 1 x 5.5mm ² (G)	BUILDING 5	2	100	9,200			80	1	*			2	0				2	32	SPARE	
	SPACE	2	32				0	3	*	*	*	4	0				2	32	SPARE	
	SPACE	2					0		*	*	*						2		SPACE	
PER PHASE VA				9,200	9,200	0								0	0	0	PER PHASE VA			

BUS-A: 9,200 Main Breaker Size DB2: BUS: LINE AMPS: 64 A
 BUS-B: 9,200 Feeder Cable Entry: BOTTOM PHASE: 1-Phase, 3-Wire, 60Hz.
 BUS-C: 0 Feeder Cable Size: 2 X 22mm² + 1x5.5mm² G KVA DEMAND: 14.7 KVA
 TOTAL LOAD IN VA: 18,400 Source: MSB 1 WITH SPARE: 20%

MSB 2
 PANEL ID: MSB 1
 SERVICE VOLTAGE: 230V, 1-Phase, 3-Wire, 60Hz
 BUS RATING: 200 AMPERES
 LOCATION: MOUNTING

Cable Size in mm ²	DESCRIPTION	BREAKER		VOLT AMPERES			AMPS	CIRCUIT NO.	BUS CONN.			CIRC. USE	AMPS	VOLT AMPERES			BREAKER Pole/Amperes	DESCRIPTION	Cable Size in mm ²	
		Pole	Amperes	A	B	C			A	B	C			A	B	C				
2 x 22mm ² + 1 x 5.5mm ² (G)	BUILDING 1	2	100	9,200			80	1	*			2	0				2	32	SPARE	
	SPACE	2	32				0	3	*	*	*	4	0				2	32	SPARE	
	SPACE	2					0		*	*	*						2		SPACE	
PER PHASE VA				9,200	9,200	0								0	0	0	PER PHASE VA			

BUS-A: 9,200 Main Breaker Size DB2: BUS: LINE AMPS: 64 A
 BUS-B: 9,200 Feeder Cable Entry: TOP PHASE: 1-Phase, 3-Wire, 60Hz.
 BUS-C: 0 Feeder Cable Size: 2 X 22mm² + 1x5.5mm² G KVA DEMAND: 14.7 KVA
 TOTAL LOAD IN VA: 18,400 Source: MSB 1 WITH SPARE: 20%

SINGLE LINE DIAGRAM

