

GENERAL NOTES :

1. ALL ELECTRICAL WORKS HEREIN SHALL CONFORM TO THE PROVISIONS OF THE LATES EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE NATIONAL BUILDING CODE, THE RULES AND REGULATION OF BUILDING ADMINISTRATION AND THE UTILITY COMPANY SERVING THE SITE.
2. ALL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR THE LOCATION AND PURPOSE FOR WHICH THEY ARE INTENDED.
3. ALL ELECTRICAL WORKS HERE IN SHALL BE DONE UNDER THE DIRECT SUPPERVISION OF A DULY QUALIFIED AND LICENSED ELECTRICAL ENGINEER.
4. AFTER COMPLETION OF ELECTRICAL WORKS, THE CONTRACTOR MUST PERFORM THE FOLLOWING TEST.
A. INSULATION/MEGGER TEST
B. OPERATIONAL/FUNCTIONAL TEST
5. PLAN SHOWS DIAGRAMMATICAL LOCATION OF PANEL BOARD, AND SERVICE ENTRANCE.
6. ALL EXISTING LIGHTINGS AND SMALL POWER OUTLET SHALL BE RETAINED.
7. INSTALLATION OF NEW CONDUIT AND POWER CABLE FROM SERVICE ENTRANCE CAP TO THE EXISTING MCC (MOTOR CONTROL CENTER) PANEL AS WELL AS FROM SERVICE ENTRANCE CAP TO THE EXISTING TRANSFORMER TERMINAL.
8. USE HIGHLY INSULATED TAPES FOR THE INSULATOR IN WIRING TERMINATION.

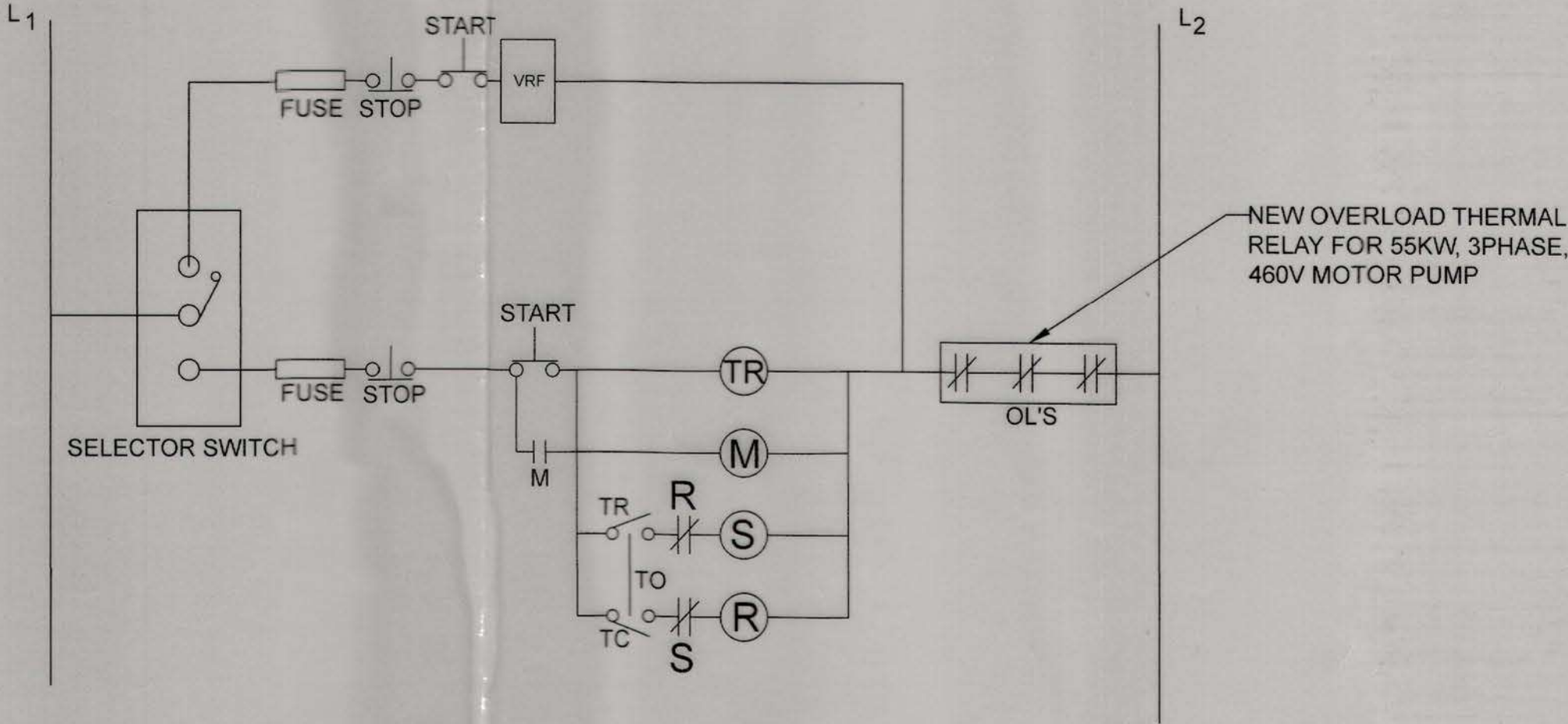
EXISTING LP-LIGHTING PANEL INSIDE MCC PANEL									
3-PHASE, 230 VOLTS, 60 HERTZ, 3-WIRE + GROUND									
MAIN: 30AT/50AF, 3-POLE BRANCHES: ALL BOLT ON CB									
CKT #	DESCRIPTION	VOLTS	VA	AMPERE LOAD				PROTECTION	WIRES & CONDUIT
				AB	BC	CA	3Ø		
1	PERIMETER LIGHTS	230	2,000	8.70				15AT,2P	2-3.5mm² THHN + 1-3.5mm² THHN IN 15mmØ IMC PIPE
2	CONVENIENCE OUTLET	230	2,000		8.70			15AT,2P	2-3.5mm² THHN + 1-3.5mm² THHN IN 15mmØ IMC PIPE
3	(SPARE)	230	1,000			4.35		15AT,2P	
4	(SPARE)	230	1,000			4.35		15AT,2P	
TOTAL			4,000	8.70	8.70	8.70			
MAIN FEEDER TOTAL CURRENT I = 1.732 [(8.70 + 25x8.70)] x 100 = 18.84 AMPS USE : 3 - 8.0mm² THHN + 1 - 5.5mm² THHN IN 25mm Ø IMC PIPE									

B LOAD SCHEDULE
SCALE NTS

PP-PUMP PANEL (ATTACHED TO THE EXISTING MDP/MCC PANEL)									
3-PHASE, 460 VOLTS, 60 HERTZ, 3-WIRE + GROUND									
CKT #	DESCRIPTION	VOLTS	VA	AMPERE LOAD				PROTECTION	WIRES & CONDUIT
				AB	BC	CA	3Ø		
1	vertical pump (deleted)	460							
2	6 KVA Transformer(existing)	460	6,000				18.84	30 AT,3P	3-8.0mm² THW + 1-5.5mm² THW IN 25mmØ IMC PIPE(existing)
3	vertical pump (deleted)	460							
4	75KW sewage pump motor 2(latest)	460	75,000				117	175 AT,3P	2SETS OF 3-30mm² THHN + 1-8.0mm² THHN IN 32mmØ IMC PIPE(existing)
	75KW sewage pump motor 3(latest)	460	75,000				117	175 AT, 3P	2SETS OF 3-30mm² THHN + 1-8.0mm² THHN IN 32mmØ IMC PIPE(existing)
TOTAL			156,000				252.84		
MAIN FEEDER TOTAL CURRENT I = 252.84 x 1.25 = 316.05AMPS USE : 2 sets of 3 - 80.0mm² THHN + 1 - 30.0mm² THHN IN 100mm Ø IMC PIPE(existing) PROVIDE : 3P - 350AT-400AF(existing)									

A SCOPE OF WORK
SCALE NTS

EXISTING MDP / MCC PANEL									
3-PHASE, 460 VOLTS, 60 HERTZ, 3-WIRE + GROUND									
MAIN: 400AT/500AF, 3-POLE (NEW MAIN circuit breaker)) BRANCHES: ALL BOLT ON CB									
CKT #	DESCRIPTION	VOLTS	VA	AMPERE LOAD				PROTECTION	WIRES & CONDUIT
				AB	BC	CA	3Ø		
1	vertical pump.(deleted)								
2	6KVA TRANSFORMER	460	6,000				18.84	30AT,3P	3-8.0mm² THW + 1-5.5mm² THW IN 25mmØ IMC PIPE(EXISTING)
3	vertical pump.(deleted)								
4	PP-PUMP PANEL	460	150 KW				234.0	350 AT,3P	2 sets of 3 - 80.0mm² THHN + 1 - 30.0mm² THHN IN 100mm Ø IMC PIPE(EXISTING)
TOTAL			154,000				252.84		
MAIN FEEDER TOTAL CURRENT I = 1.25 x 252.84 = 316.05 AMPS USE : 3 - 200 mm² THHN + 1 - 30mm² THHN IN 90mm Ø RSC PIPE (NEW main line)									



EXISTING VARIABLE FREQUENCY
DRIVE MAIN WITH REDUCE VOLTAGE
WYE-DELTA CONNECTION TO BACK UP
C SCALE NTS



TIEZA
TOURISM INFRASTRUCTURE
AND ENTERPRISE ZONE AUTHORITY

6th & 7th FLR. TOWER 1 DOUBLE DRAGON PLAZA
DOUBLE DRAGON MERIDIAN PARK, MACAPAGAL AVENUE
CORNER EDSA EXTENSION BAY AREA PASAY CITY 1308

PROJECT TITLE/LOCATION:

UPGRADING OF FEEDER LINES @ PS 1
& CONSTRUCTION OF GEN SET
HOUSING @ PS1 & PS3

BORACAY ISLAND, MALAY, AKLAN

PROJECT EVALUATION AND PLANNING DEPARTMENT

PREPARED BY:

ANGELITO A. ROQUE

CHECKED BY:

RADY E. ADAME

REVIEWED BY:

JEFFREY L. MACALALAD

RECOMMENDING APPROVAL:

GREGORY A. OLLER

APPROVED BY:

MARK T. LAPID

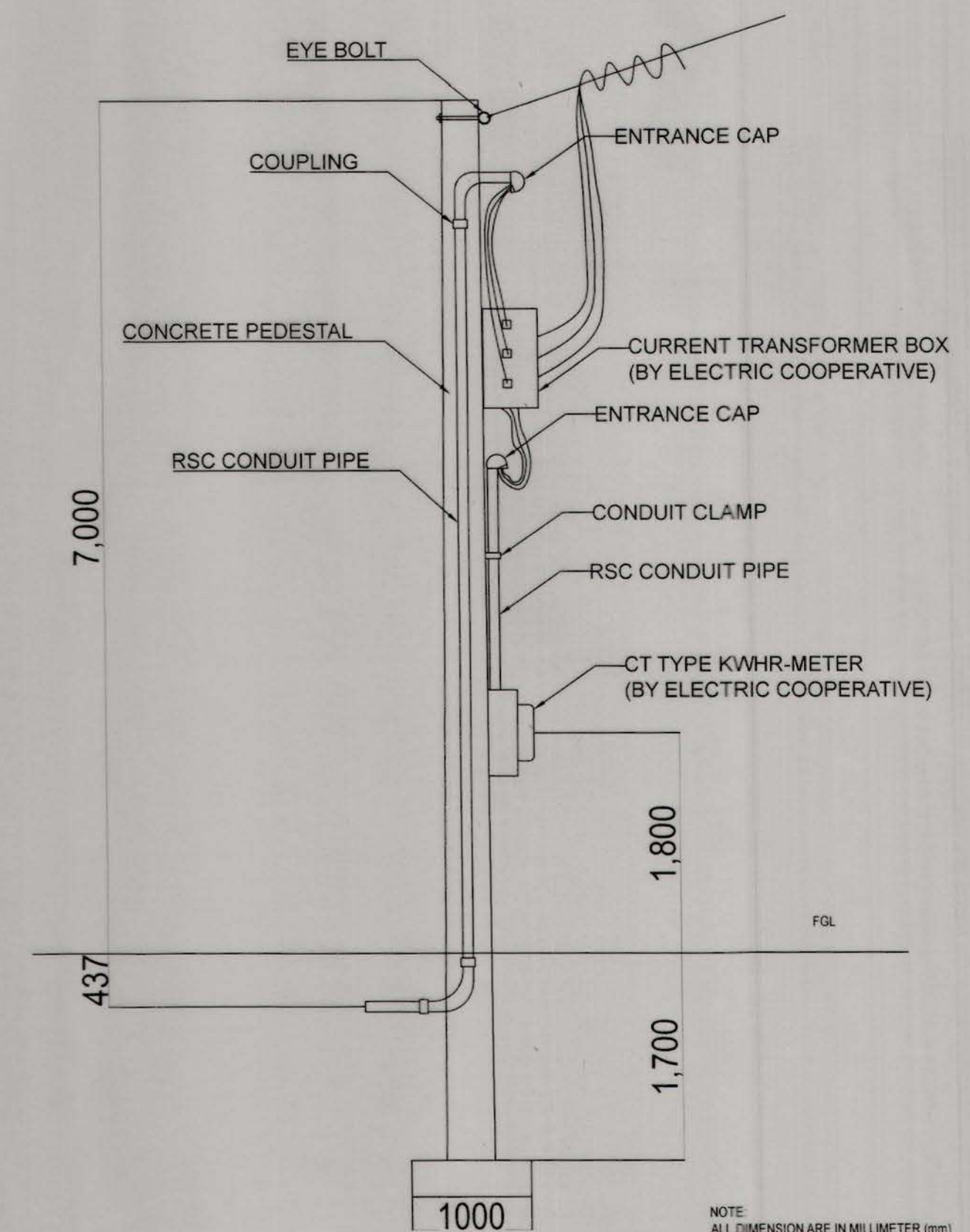
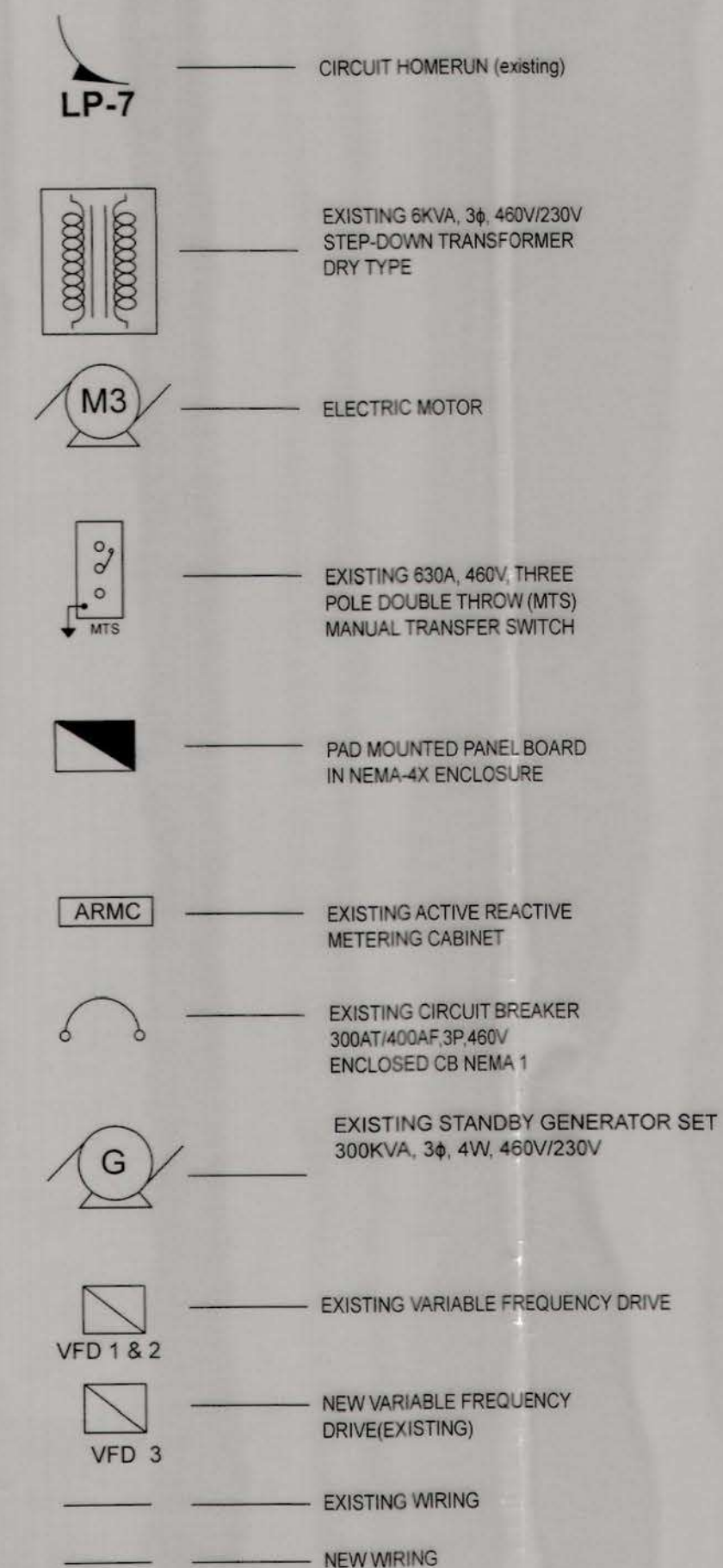
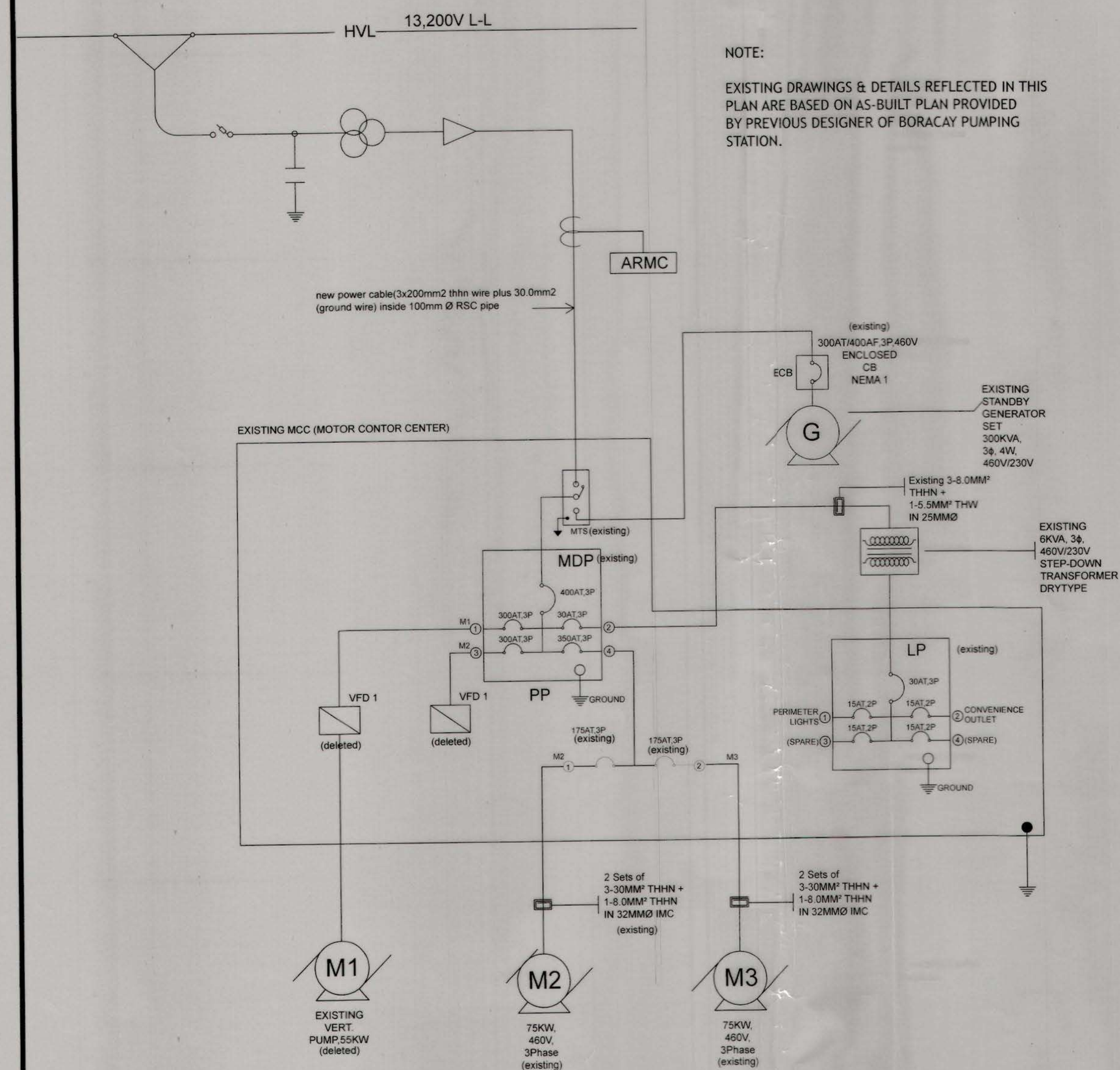
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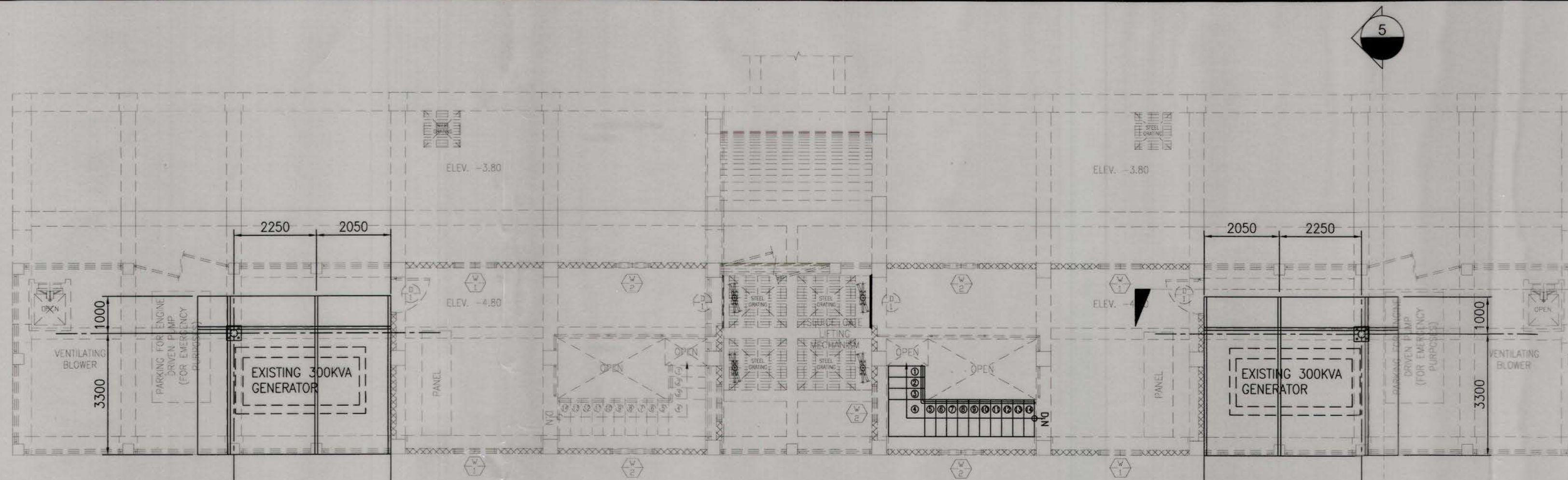
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REVISIONS:

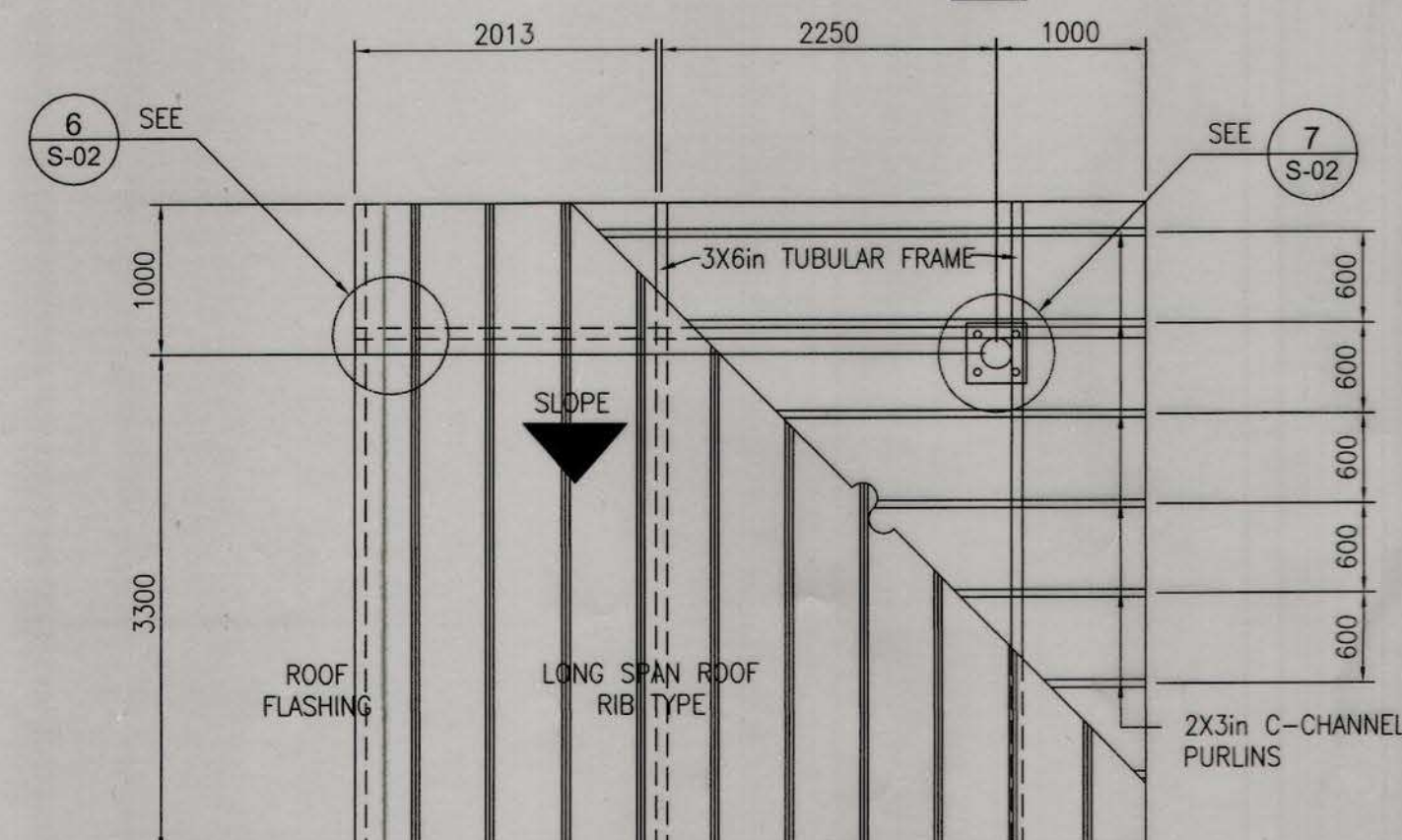




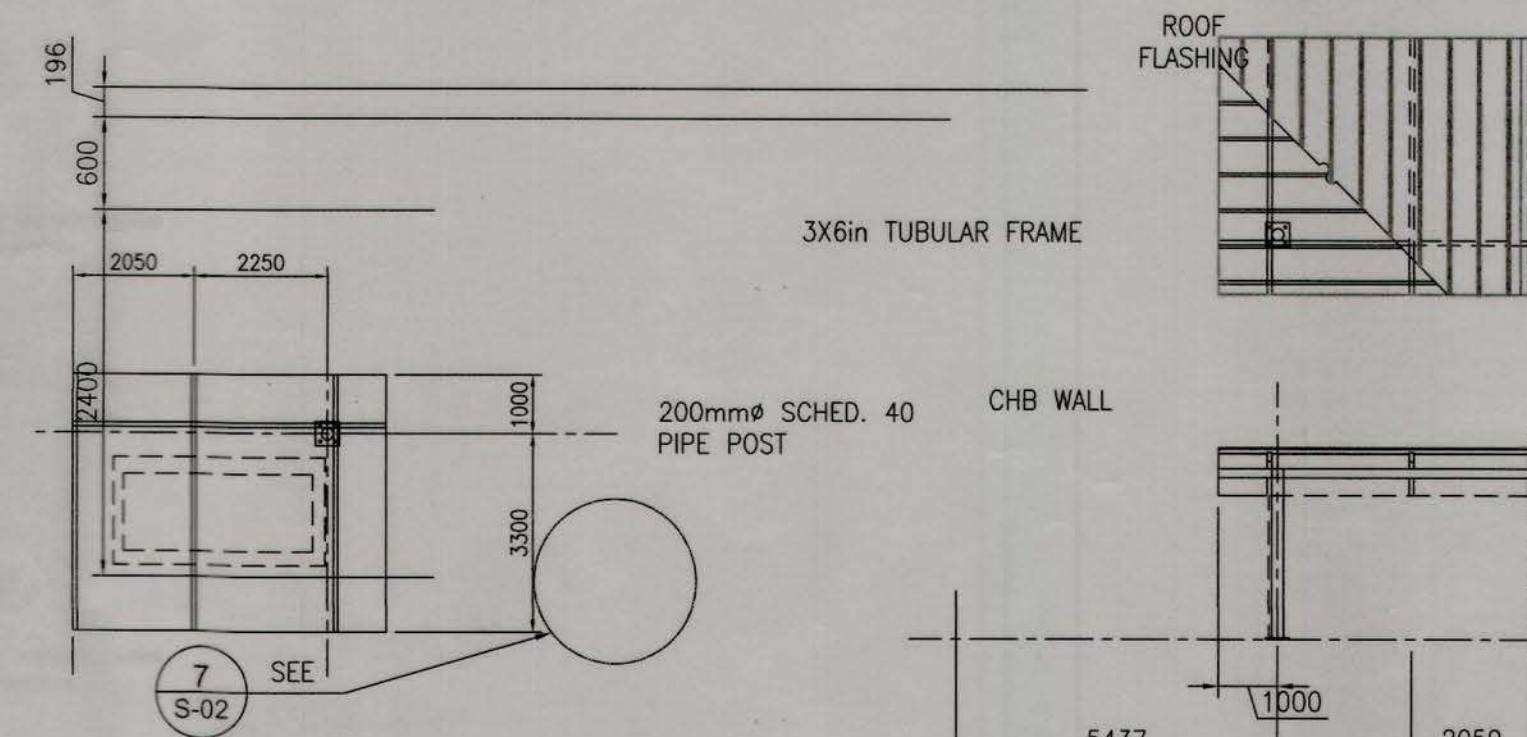
1 PLAN
S-01 SCALE 1:100



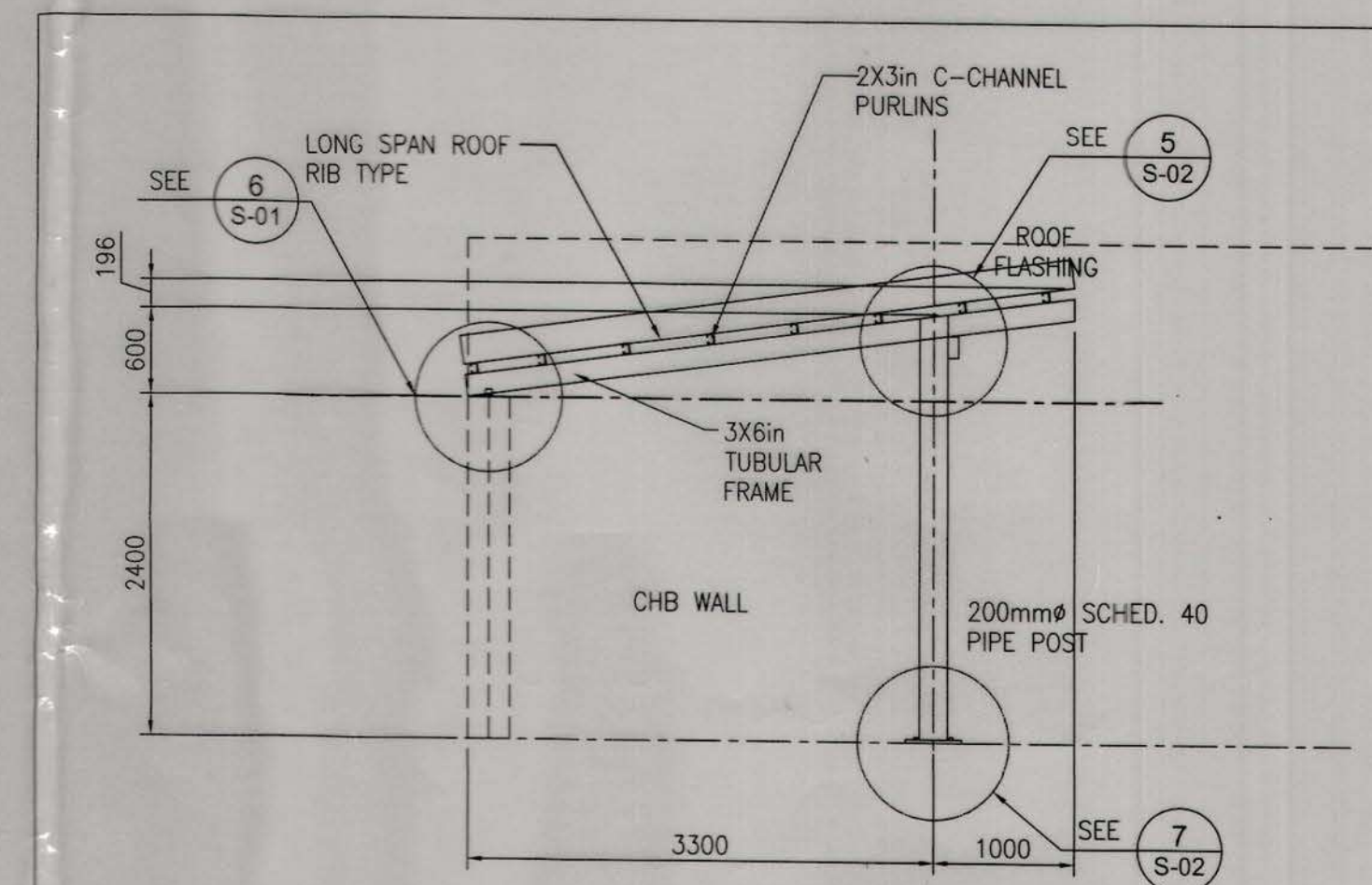
2 FRONT ELEVATION
S-01 SCALE 1:100



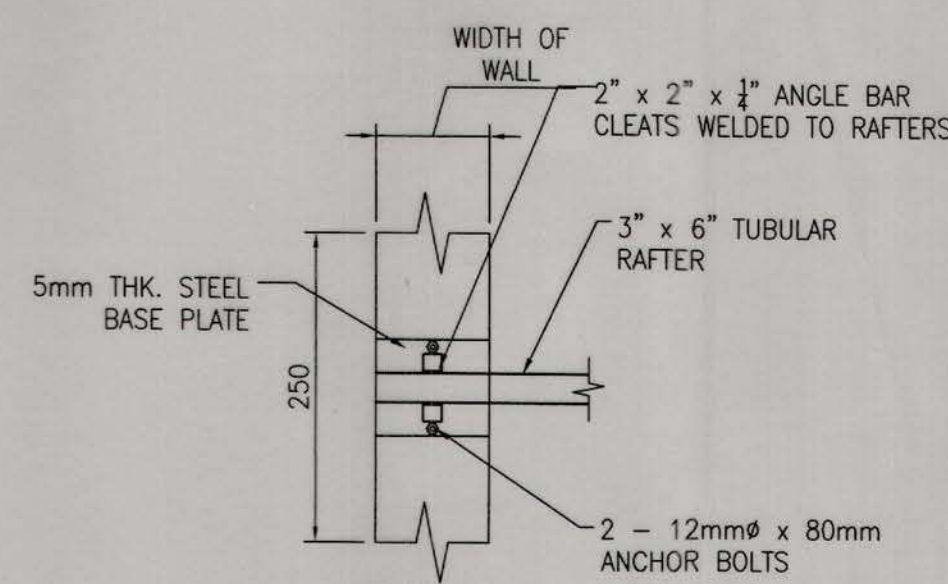
3 ROOF FRAMING PLAN
S-01 SCALE 1:50



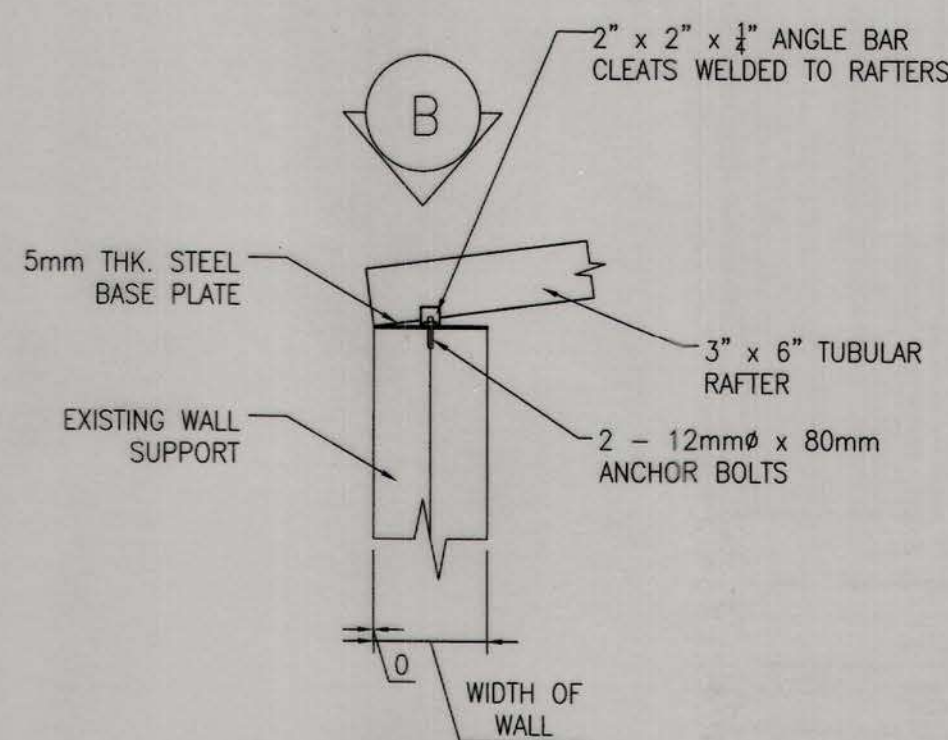
4 LONGITUDINAL SECTION
S-01 SCALE 1:50



5 CROSS SECTION
S-01 SCALE 1:50

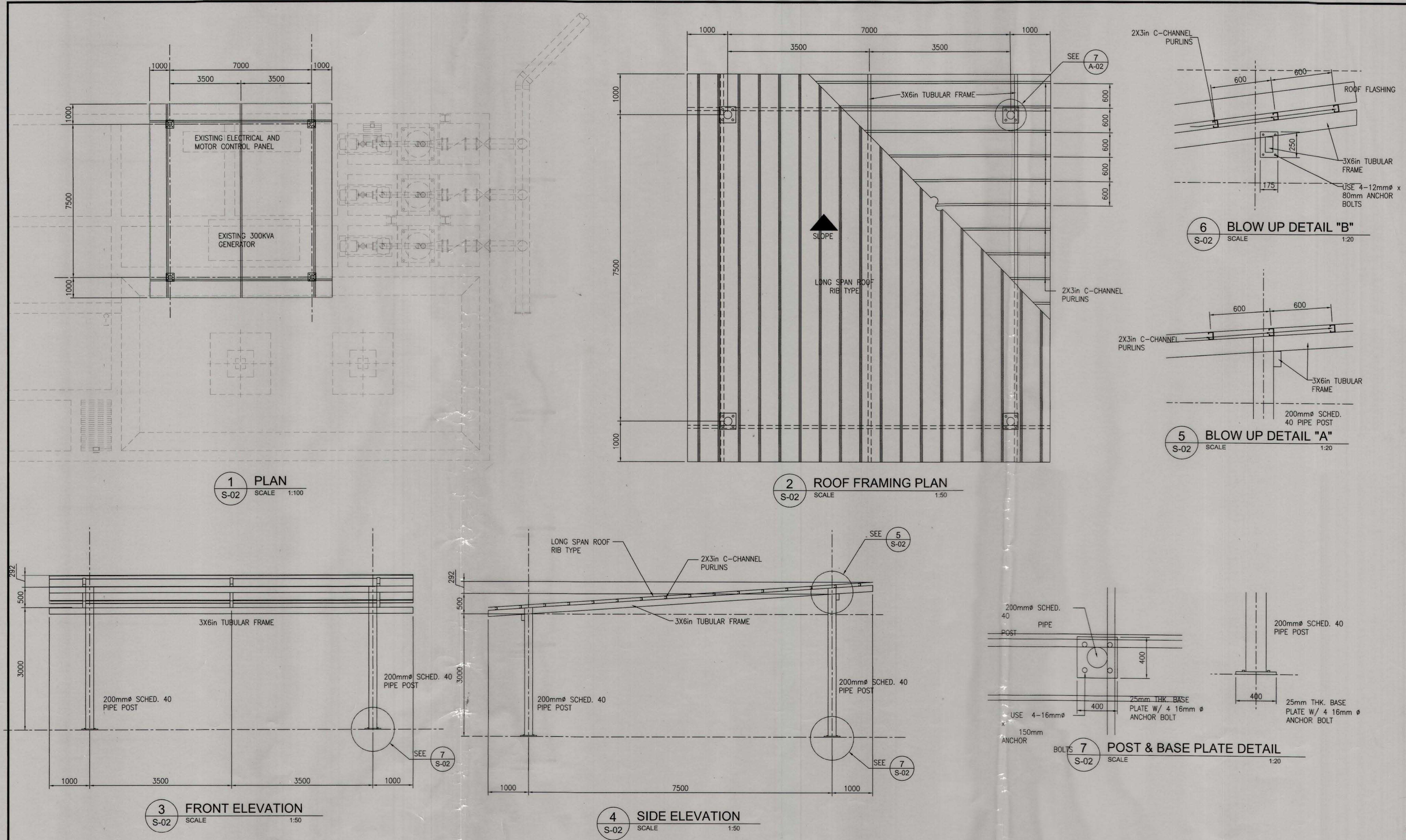


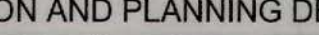
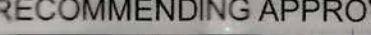
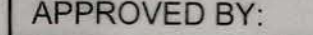
7 DETAIL - B
S-01 SCALE 1:2 MTS



6 DETAIL - A
S-01 SCALE 1:2 MTS

 TIEZA TOURISM INFRASTRUCTURE AND ENTERPRISE ZONE AUTHORITY 6TH & 7TH FLR. TOWER 1 DOUBLE DRAGON PLAZA DOUBLE DRAGON MERIDIAN PARK, MACAPAGAL AVENUE CORNER EDSA EXTENSION BAY AREA PASAY CITY 1308	PROJECT TITLE/LOCATION UPGRADING ELECTRICAL FEEDER LINES AT PUMP STATION NO.1 & CONSTRUCTION OF GENSET HOUSING AT PS1 & PS3 BORACAY ISLAND, MALAY, AKLAN	PROJECT EVALUATION AND PLANNING DEPARTMENT PREPARED BY: JOSEPH S. QUIBAN CHECKED BY: RADY E. ADAME REVIEWED BY: JEFFREY L. MACALALAD DRAWN BY: MANAGER PROJECT PLANNING & DESIGN DIVISION MANAGER OIC PROJECT EVALUATION & PLANNING DEPARTMENT	RECOMMENDING APPROVAL: GREGORY A. OLLER ASSISTANT CHIEF OPERATING OFFICER ARCHITECTURAL & ENGINEERING SERVICES SECTOR	APPROVED BY: MARK T. LAPID CHIEF OPERATING OFFICER	SHEET CONTENTS: AS SHOWN REVISIONS:	R.A. 545 SHEET NO. S 1 S-01
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	UPGRADING ELECTRICAL FEEDER LINES AT PUMP STATION NO.1 & CONSTRUCTION OF GENSET HOUSING AT PS1 & PS3		PREPARED BY:  JOSEPH S. QUIBAN	CHECKED BY:  RADY E. ADAME	REVIEWED BY:  JEFFREY L. MACALALAD	 GREGORY A. OLLER	 MARK T. LAPID	AS SHOWN	THIS DRAWING AS INSTRUMENT OF SERVICE IS A PROPERTY OF TIEZA. IT SHALL BE UNLAWFUL TO DUPLICATE OR TO MAKE COPIES OF THIS DOCUMENT WITHOUT THE CONSENT OF TIEZA.	S 2 S-02
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