

REV.	DATE	BY	DESCRIPTION

PROJECT:  
 PROPOSED 300 CU. M. REINFORCED CONCRETE  
 GROUND TANKS AT BALUNO & BANDERA-DULIAN  
 FOR DUMALON WATER SYSTEM

SHEET CONTENT:  
 AS INDICATED

DRAWN BY:  
  
**ARTHUR A. REYES**  
 PRINCIPAL DRAFTSMAN - DESIGN DIVISION

PREPARED BY:  
  
**BONNY L. DAMPIOS**  
 SENIOR ENGINEER A - DESIGN DIVISION

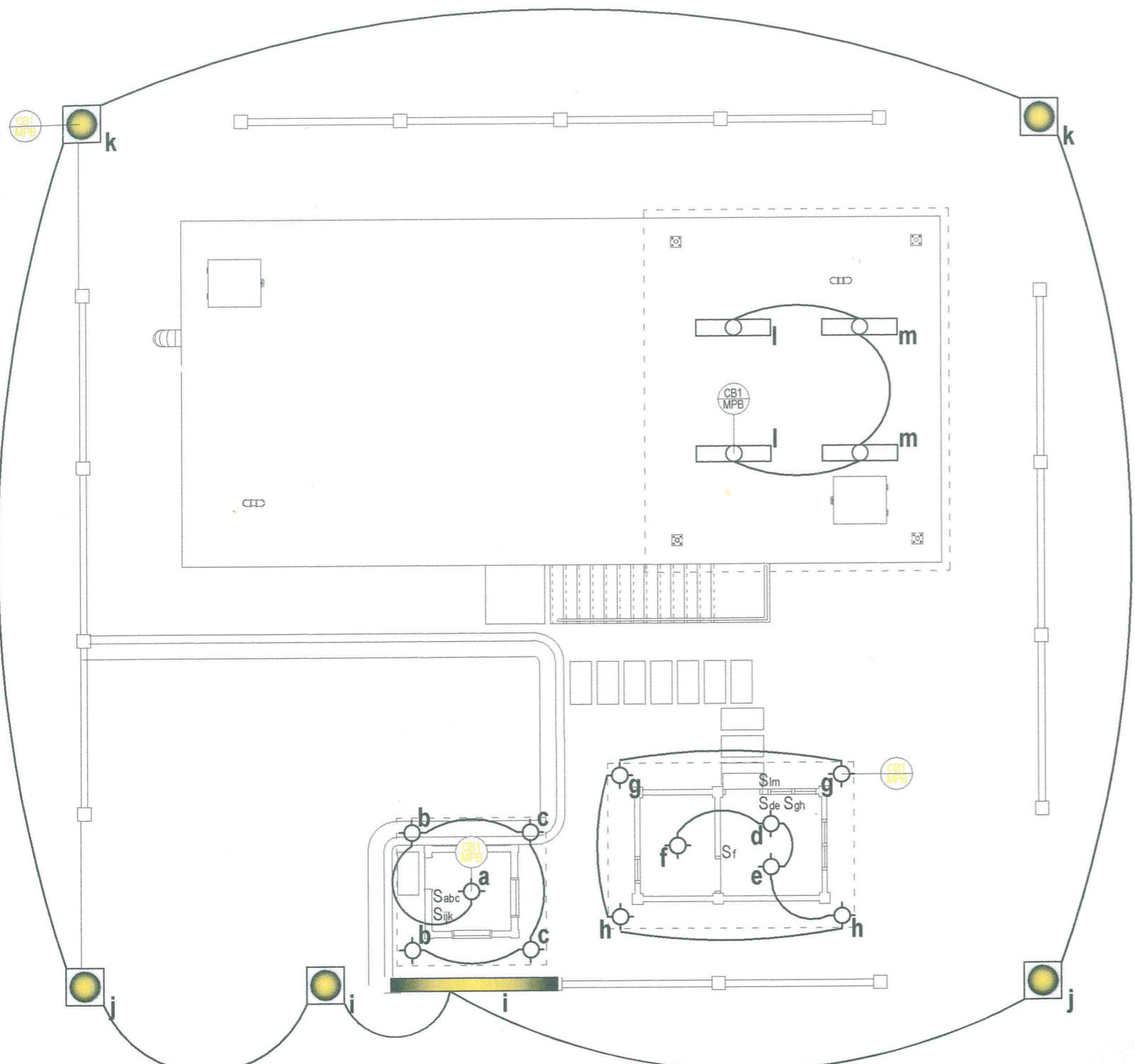
REVIEWED BY:  
  
**REX D. SALE, JR.**  
 SUPERVISING ENGINEER A - DESIGN DIVISION

SUBMITTED BY:  
  
**EDITO M. BAUTISTA, JR.**  
 OIC - DESIGN DIVISION

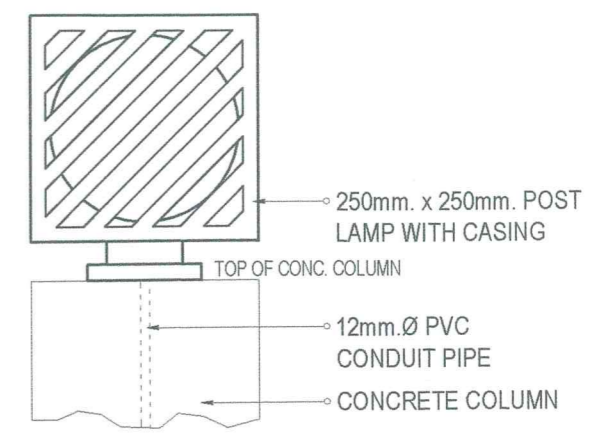
RECOMMENDING PROJECT IMPLEMENTATION:  
  
**MARLI ACOSTA - DE FIESTA**  
 AGM - TECHNICAL SERVICES GROUP

APPROVED FOR PROJECT IMPLEMENTATION:  
  
**REYNALDO R. CABILN**  
 GENERAL MANAGER

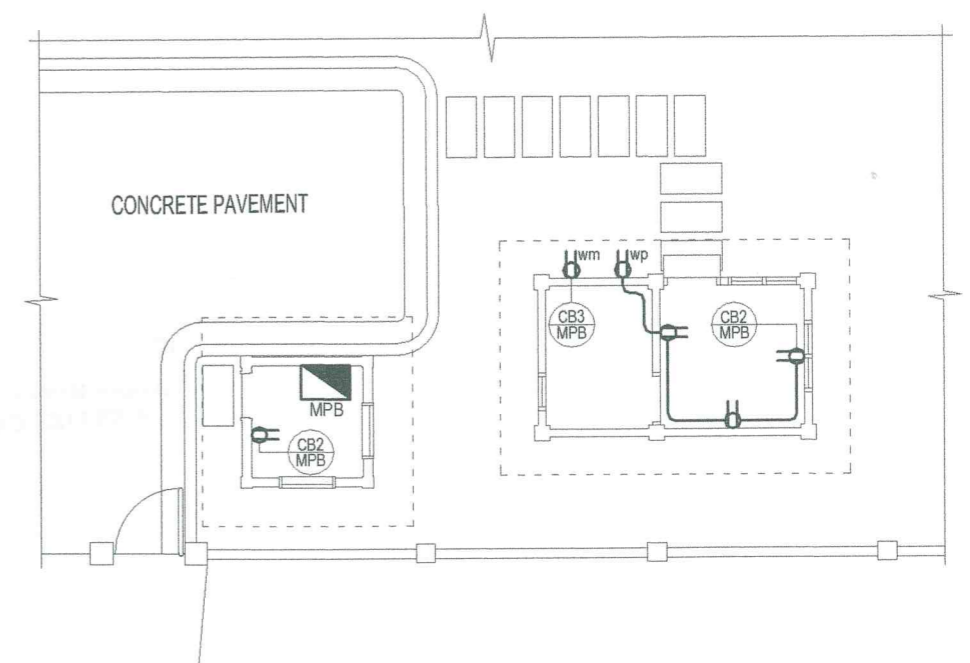
SHEET NO.  
**50**










**PROP. LIGHTING LAYOUT PLAN**  
SCALE: 1:100M.



**DETAIL OF PERIMETER POST LAMP**  
SCALE: NONE






**PROP. POWER OUTLET LAYOUT PLAN**  
SCALE: 1:100M.







	<b>REVISIONS</b> REV. DATE BY DESCRIPTION				<b>PROJECT:</b> PROPOSED 300 CU. M. REINFORCED CONCRETE GROUND TANKS AT BALUNO & BANDERA-DULIAN FOR DUMALON WATER SYSTEM	<b>DRAWN BY:</b>  <b>ARTHUR A. REYES</b> PRINCIPAL DRAFTSMAN - DESIGN DIVISION	<b>PREPARED BY:</b>  <b>JEREMIAH R. CRUZ</b> ENGINEER B (I.O.) - DESIGN DIVISION	<b>REVIEWED BY:</b>  <b>REX D. SALE, JR.</b> SUPERVISING ENGINEER A - DESIGN DIVISION	<b>SUBMITTED BY:</b>  <b>EDITO M. BAUTISTA, JR.</b> OIC - DESIGN DIVISION	<b>RECOMMENDING PROJECT IMPLEMENTATION:</b>  <b>MARIA A. COSTA DE FIESTA</b> AGM - TECHNICAL SERVICES GROUP	<b>APPROVED FOR PROJECT IMPLEMENTATION:</b>  <b>REYNALDO R. CABILN</b> GENERAL MANAGER	<b>SHEET NO.</b> 51
	<b>SHEET CONTENT:</b> AS INDICATED											

## GENERAL NOTES AND SPECIFICATIONS

1. ALL ELECTRICAL WORKS INDICATED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE 1, THE REQUIREMENTS OF THE LOCAL BUILDING OFFICIAL AND THE ELECTRIC UTILITY SERVING THE AREA, THE ZAMBOANGA CITY ELECTRIC COOPERATIVE.
2. SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, 7.62KV, 60Hz DISTRIBUTION SYSTEM VOLTAGE IS 230V SINGLE-PHASE, 2-WIRE PLUS GROUND.
3. THE ELECTRICAL WIRING INSTALLATION SHALL BE DONE IN POLYVINYL CHLORIDE CONDUITS (PVC), EXCEPT FOR THE MAIN SERVICE ENTRANCE CONDUIT WHICH IS RMC. MINIMUM SIZE FOR ALL CONDUITS SHALL BE 20mm DIAMETER ELECTRICAL TADE SIZE FOR METAL CONDUITS, SUCH AS RMC AND EMT.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTICS INSULATED TYPE "THHN/THWN" UNLESS OTHERWISE INDICATED. THE MINIMUM SIZE FOR SIZE FOR POWER AND LIGHTING SHALL BE 3.5mm<sup>2</sup> AND 2.0mm<sup>2</sup> RESPECTIVELY.
5. ALL SERVICED ENTRANCE EQUIPMENT, SWITCHES, PANEL BOARDS, AND ALL NON-CURRENT CARRYING METAL PARTS SHOULD BE PROPERLY GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE PEC.
6. ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE BRAND NEW AND MUST BE OF THE APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE.
7. THE MOUNTING HEIGHTS OF ALL WIRING DEVICES SHALL BE AS FOLLOWS:
  - i. LIGHT SWITCHES 1200mm ABOVE FLOOR FINISHED;
  - ii. CONVENIENCE OUTLETS 300mm ABOVE FLOOR FINISHED OR AS REQUIRED; AND
  - iii. PANEL BOARDS SHALL BE INSTALLED 1800mm ABOVE FLOOR INISHED.
8. THERE SHALL BE ADEQUATE AND EFFECTIVE EQUIPMENT GROUNDING. GROUND RESISTANCE SHOULD BE NO MORE THAN 5 OHMS. IF GROUND RESISTANCE EXCEEDS 5 OHMS, ADDITIONAL GROUND RODS SHALL BE PROVIDED.
9. ALL ELECTRICAL INSTALLATION SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED AND EXPERIENCED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN.

### LEGEND:

-  30W LED POST LAMP WITH IP65 PROTECTION AND CASING
-  11W LED POST LAMP WITH IP65 PROTECTION
-  21 WATTS FLUORESCENT WITH DOUBLE INDUSTRIAL LUMINAIRE
- S<sub>x</sub> ONE-GANG SWITCH
- S<sub>xy</sub> TWO-GANG SWITCH
- S<sub>xyz</sub> THREE-GANG SWITCH
-  DUPLEX CONVENIENCE OUTLET
-  WEATHER PROOF OUTLET
-  WELDING MACHINE OUTLET
-  CIRCUIT NUMBER
-  MAIN CIRCUIT BREAKER
-  SIGNAGE

REVISIONS				PROJECT:	DRAWN BY:	PREPARED BY:	REVIEWED BY:	SUBMITTED BY:	RECOMMENDING PROJECT IMPLEMENTATION:	APPROVED FOR PROJECT IMPLEMENTATION:	SHEET NO.
REV.	DATE	BY	DESCRIPTION								
				PROPOSED 300 CU. M. REINFORCED CONCRETE GROUND TANKS AT BALUNO & BANDERA-DULIAN FOR DUMALON WATER SYSTEM	 ARTHUR A. REYES PRINCIPAL CRAFTSMAN - DESIGN DIVISION	 JEREMIAH R. CRUZ ENGINEER (A.O.) - DESIGN DIVISION	 REX D. SALE, JR. SUPERVISING ENGINEER A - DESIGN DIVISION	 EDITO M. BAUTISTA, JR. OIC - DESIGN DIVISION	 MARLI ACOSTA DE FIESTA ASST. TECHNICAL SERVICES GROUP	 REYNALDO R. CABILN GENERAL MANAGER	52
SHEET CONTENT:											