



**DEPARTMENT OF AGRICULTURE**  
**RFO XIII- CARAGA**  
**CAPITOL SITE, BUTUAN CITY**



**UPGRADING OF BLACK NATIVE CHICKEN**  
**BREEDER HOUSE**  
**TRENTO, RESEARCH AND EXPERIMENT STATION**  
**CARAGA REGION**



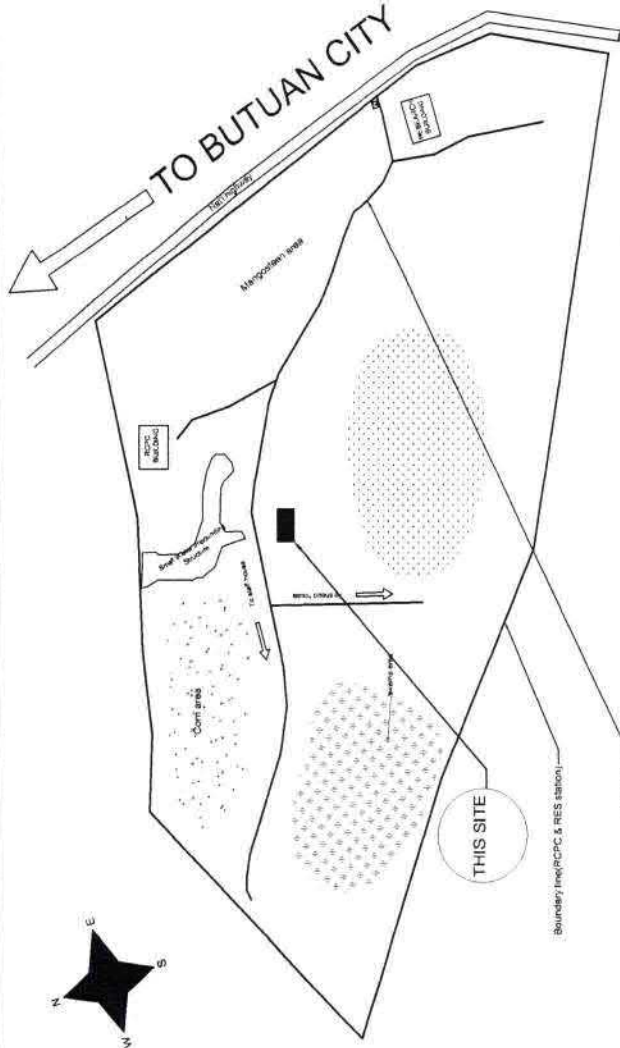


**GENERAL NOTES:**

1. THE LOCATION OF LIQUID WASTE FACILITY SHALL CONFORM WITH THE EXISTING ZONING, LAND USE STANDARDS, RULES AND REGULATIONS SET BY DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (EO 34 AND 35) AND OTHER POLICIES SUCH AS WATER CODE (PD 1067) AND ENVIRONMENTAL CODE ON SOLID AND LIQUID WASTE DISPOSAL (PD 1152).
2. ROOF SHOULD BE WATERTIGHT; HAVE A CEILING; NO OPEN ARMS.
3. ROOF VENTS SHOULD BE SCREENED AND SEALED.
4. LIGHT SHOULD BE SHIELDED AND ADEQUATE IN INTENSITY.
5. ALL WELDING WORKS SHALL BE FULL WELD AND PAINT FURNISHED.
6. ALL CONCRETE WORKS AND PLASTERING WORKS SHALL BE CLASS A IN PROVISION TO AVOID CRACKS AND SHALL BE SMOOTH FINISHED.
7. USE 8'X8' COA FORMAT TARPULIN WITH FRAME FOR PROJECT SIGNAGE.

**GENERAL ELECTRICAL SPECIFICATION**

1. ALL INSTALLATION SHALL BE DONE IN WORKMANLIKE MANNER AND SHALL INCLUDE ALL NECESSARY WORKS THAT MAY NOT CLEARLY INDICATED IN THE PLANS OR SCHEMATIC BUT NECESSARY TO ATTAIN THE PURPOSE AND INHERIT OF THE DESIGN SCHEME.
2. THE PLAN INDICATE THE GENERAL LAYOUT PLAN OF THE SYSTEM AND THE LOCATION OF OUTLET ARE DIAGRAMMATIC AND MAY BE ADJUSTED AS REQUIRED BY THE ENGINEER BEFORE INSTALLATION.
3. THE CONTRACTOR SHALL RECORD ALL ACCOMPLISHMENT AS WORK PROGRESS IN A SET OF RECORDS PLAN, AS BUILT DRAWING SHALL BE DULY SIGNED AND SEALED BY THE SUPERVISOR IN CHARGE OF THE CONSTRUCTION AND SHALL BE SUBMITTED BY THE RECIPIENT AND THE IMPLEMENTING AGENCY FOR THE FUTURE EXPANSION AND MAINTENANCE PURPOSES.
4. ALL MATERIALS TO BE SUPPLIED SHALL BE NEW AND HIGHLY QUALITY SUITABLE FOR THE LOCATION PURPOSE. MATERIALS SHALL BE STANDARD PRODUCTS OF THE REPUTABLE MANUFACTURER.
5. ALL WIRING INSTALLATION SHALL BE IN PVC CONDUIT (UNLESS SPECIFIED).
6. ALL SPECIAL PURPOSES OUTLET SHALL BE PROPER TYPE RATING AND READILY ACCESSIBLE.
7. MINIMUM SIZE OF WIRE SHALL BE NO. 14 AWG FOR LIGHTING AND NO. 12 AWG FOR CONVENIENCE OUTLET (UNLESS SPECIFIED).
8. THE BRANCH CIRCUIT SHALL BE LOADED MORE THAN 80 PERCENT OF ITS RATING.
9. MOUNTING HEIGHT SHALL BE 1.30 METERS ABOVE THE FLOOR LEVEL FOR SWITCH CONTROL LINE, CONVENIENCE OUTLET 0.30 ABOVE FLOOR LEVEL, AND PANEL BOARD SHALL BE 1.80 METERS ABOVE FLOOR LEVEL.
10. THE ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH ALL REQUIREMENTS OF THE LATEST ISSUE, PHILIPPINE ELECTRICAL CODE WITH RULES AND REGULATIONS AND ORDINANCE OF THE PHILIPPINES.



**VICINITY MAP**

NTS

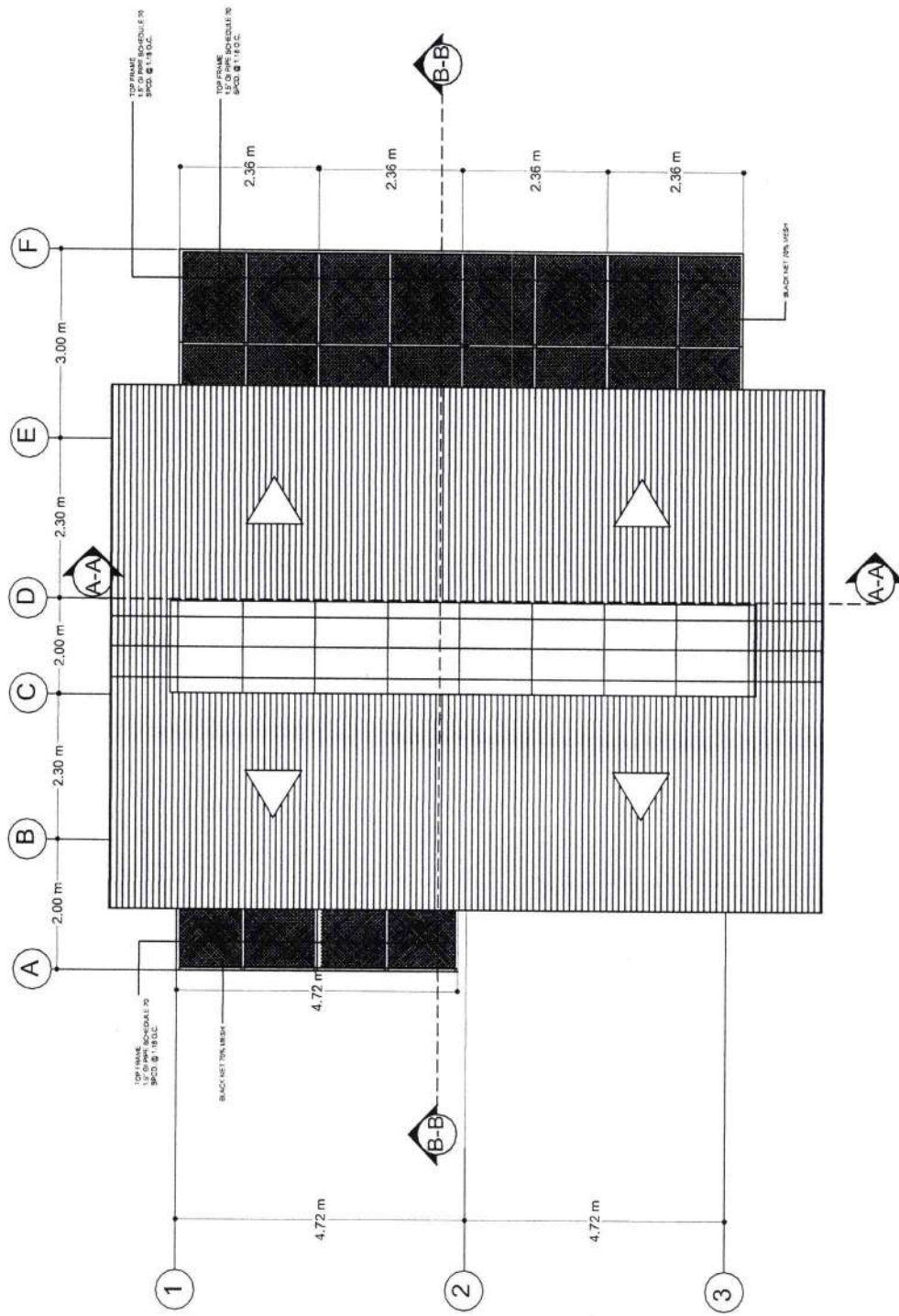
**MAIN PROJECT FEATURES**

RETROFITTING OF BUILDING ELECTRIFICATION	ESTABLISHMENT OF CYCLONE WIRE
ESTABLISHMENT OF CONCRETE BARRIER	RETROFITTING OF MONITOR TYPE ROOFING
ESTABLISHMENT OF CHB WALL	
RETROFITTING OF MONITOR TYPE ROOFING	
INSTALLATION OF BLACK NET	
DEMOLITION OF WALL FOR CHICKEN AISLE	
EXTENSION OF BREEDER PEN	
WELDING WORKS FOR GI POST, FRAME AND ROOFING STRUCTURES.	
INSTALLATION OF FIBER REINFORCED CEMENT SHEET	


REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE RFO-XII, CAPITOL SITE BUTUAN CITY	Project Title <b>UPGRADING OF BLACK NATIVE CHICKEN BREEDER HOUSE</b>	Prepared by: <b>JARDELLE GLYNN J. PENASO</b> ENGR. I	Checked & Reviewed by:  <b>ENGR. TRESSA LYN B. LIMAS</b> ENGR. VII	Submitted by:  <b>ENGR. RHENZO MORALES</b> CHIEF, EED	Noted:  <b>FLORITES J. ROSALES</b> OIC, RESEARCH DIVISION	Recommending approval:  <b>ABEL F. VARGAS</b> RFD FOR RESEARCH AND REGULATIONS	Approved:  <b>RICARDO M. OÑATE, JR.</b> REGIONAL EXECUTIVE DIRECTOR	SHEET NO. <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <span style="font-size: 12px;">2</span>  <span style="font-size: 12px;">7</span> </div>
	Location: Trento, Research and Experiment Station							

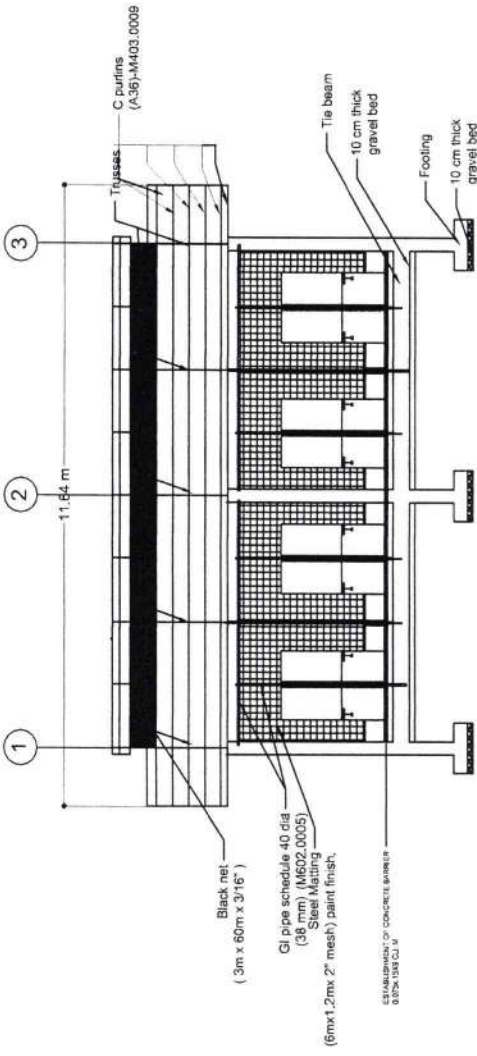




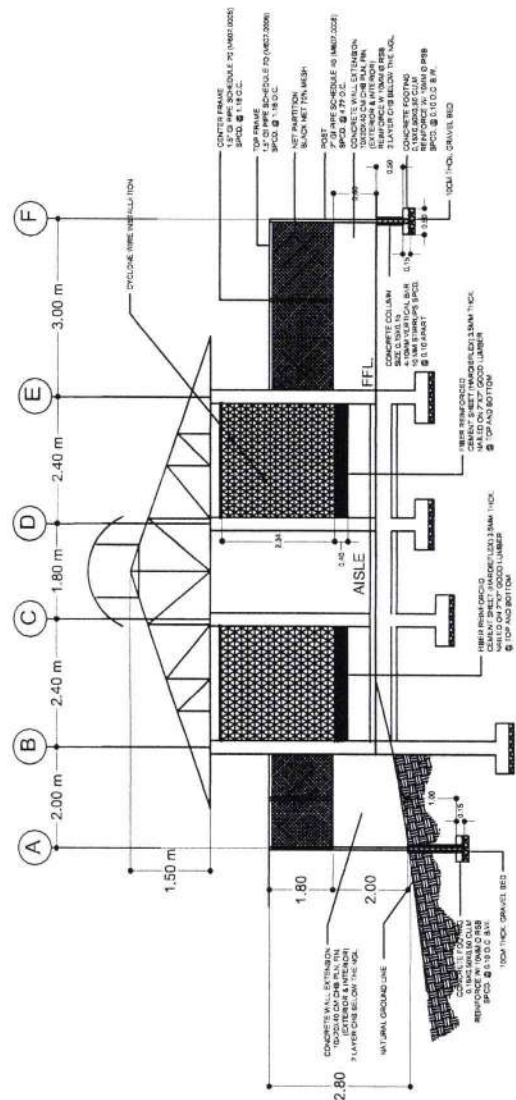


1 ROOFING PLAN  
A-3 SCALE: 1:80 MTS.

 DEPARTMENT OF AGRICULTURE RFO XIII, CAPITOL SITE BUTJUAN CITY	Project Title <b>UPGRADING OF BLACK NATIVE CHICKEN BREEDER HOUSE</b> Location: Trento, Research and Experiment Station	Prepared by: <i>Jaredde Glyn J. Penaso</i> <b>JARÉDDE GLYNN J. PENASO</b> ENGR. I	Checked & Reviewed by: <i>Thessa Lyn B. Limas</i> <b>ENGR. THESSA LYN B. LIMAS</b> ENGR. III	Submitted by: <i>Engr. Rene C. Morales</i> <b>ENGR. RENE C. MORALES</b> CHIEF RAID	Noted: <i>Florites J. Rosales</i> <b>FLORITES J. ROSALES</b> OIC, RESEARCH DIVISION	Recommending approval: <i>Abel F. Wagas</i> <b>ABEL F. WAGAS</b> RTD FOR RESEARCH AND REGULATIONS	Approved: <i>Engr. Ricardo M. Oñate, Jr.</i> <b>ENGR. RICARDO M. OÑATE, JR.</b> REGIONAL EXECUTIVE DIRECTOR	SHEET NO. <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <span style="font-size: 12px;">4</span>  <span style="font-size: 12px;">7</span> </div>
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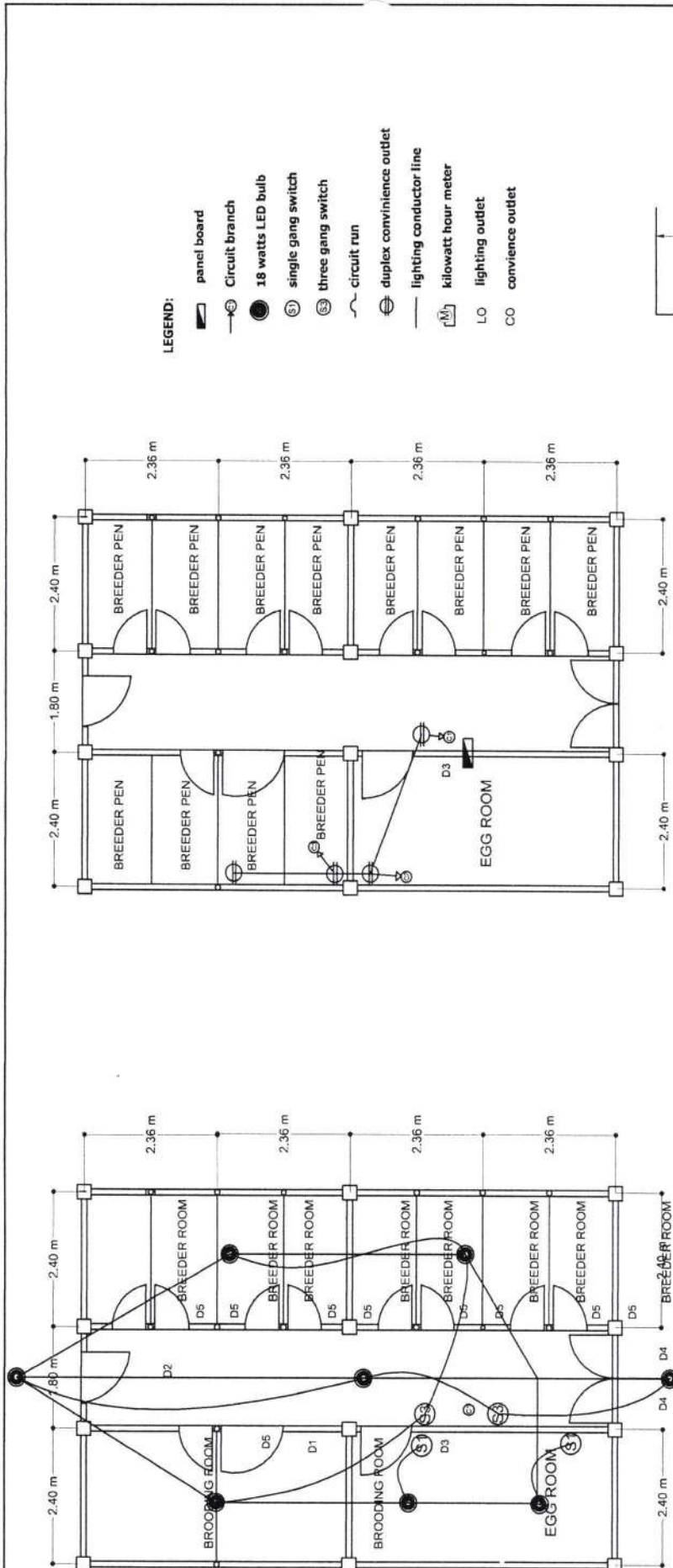


1 A-A LONGITUDINAL SECTION  
SCALE: 1:100 MTS.



A-3 B-B CROSS SECTION  
SCALE: 1:100 MTS.

 DEPARTMENT OF AGRICULTURE 1988	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE RFO XIII, CAPITOL SITE BUTUAN CITY	<b>Project Title</b> UPGRADING OF BLACK NATIVE CHICKEN BREEDER HOUSE	<b>Location:</b> Trento, Research and Experiment Station	Prepared by: <i>Jaredde Glynyn J. Penaso</i> <b>JAREDE GLYNN J. PENASO</b> ENGR. I	Checked & Reviewed by: <i>Jessica Lyn B. Limas</i> <b>ENGR. JESSICA LYN B. LIMAS</b> ENGR./VII	Submitted by: <i>Florites J. Rosales</i> <b>ENGR. FLORITES J. ROSALES</b> CHIEF PAID	Noted: <i>Abel F. Wagas</i> <b>ABEL F. WAGAS</b> RTD FOR RESEARCH AND REGULATIONS	Recommending approval: <i>Richard M. Onate Jr.</i> <b>RICHARD M. ONATE, JR.</b> REGIONAL EXECUTIVE DIRECTOR	Approved: <i>Richard M. Onate Jr.</i> <b>RICHARD M. ONATE, JR.</b> REGIONAL EXECUTIVE DIRECTOR	SHEET NO. 5 7
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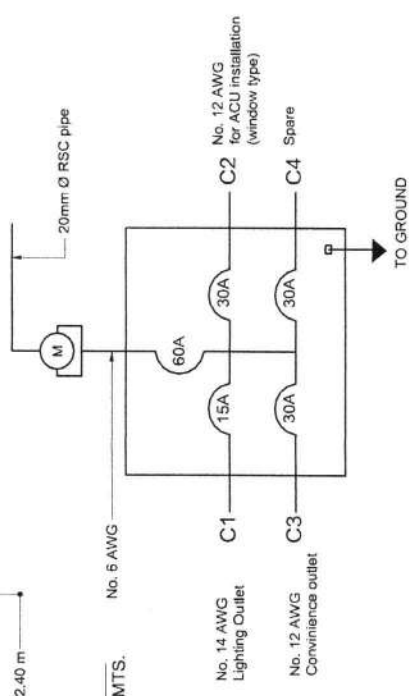


**1 LIGHTING LAYOUT**  
SCALE: 1:80 MTS.

**LEGEND:**

- panel board
- Circuit branch
- 18 watts LED bulb
- single gang switch
- three gang switch
- circuit run
- duplex convenience outlet
- lighting conductor line
- kilowatt hour meter
- lighting outlet
- convenience outlet

**2 POWER LAYOUT**  
SCALE: 1:80 MTS.



CIRCUIT	OUTLET		VOLTS	AMPERES	CB RATING	SIZE OF CONDUCTOR	COMPUTATION		
	LO	CO					( Amperes = VA Loads/ Volts)		
C1	8		220V	6.545A	15A	NO. 14 AWG IN PVC PIPE CONDUIT	Amp = 1,440 / 220 = 6.545A		
C2	1		220V	6.818A	30A	NO. 12 AWG IN PVC PIPE CONDUIT	Amp = 1,500 / 220 = 6.818A		
C3	2		220V	3.273A	30A	NO. 12 AWG IN PVC PIPE CONDUIT	Amp = 720 / 220 = 3.273A		
C4		SPARE							
TOTAL		13		16.636A					16.636A

**SCHEMATIC DIAGRAM**

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Location: Trento, Research and Experiment Station

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CHIEF RAED

Noted:  
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Recommending approval:  
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