



1  
A-1 PERSPECTIVE VIEW  
SCALE: NTS

REPUBLIC OF THE PHILIPPINES  
OFFICE OF THE CITY/MUNICIPAL  
ENGINEER/BUILDING OFFICIAL

DISTRICT/CITY/MUNICIPALITY

ARCHITECTURAL

- A-1 PERSPECTIVE VIEW, TABLE OF CONTENTS
- A-2 FLOOR PLAN, ELEVATIONS, ROOF PLAN SECTIONS, REFLECTED CEILING PLAN
- A-3 SCHEDULE OF DOOR & WINDOWS, BAY SECTION, DETAIL SECTION, LOUVER BLOCK VENT., RAMP DETAIL

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

STRUCTURAL

- S-1 FOUNDATION PLAN, ROOF FRAMING PLAN FOOTING DETAIL, COLUMN DETAIL, WF-1, RAMP DETAIL
- S-2 ELEVATIONS TYPICAL CONNECTION DETAIL

STRUCTURAL

SANITARY

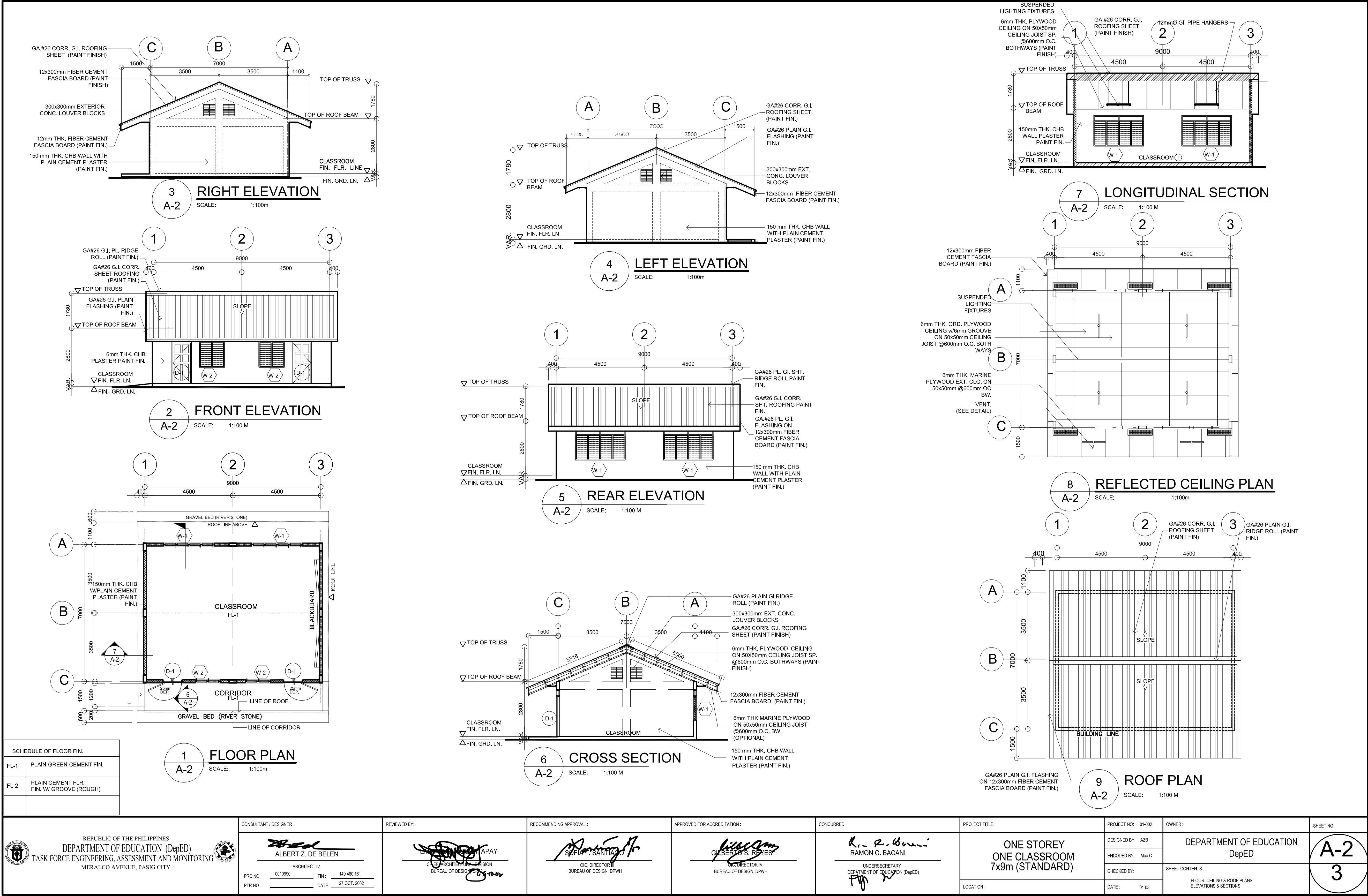
ELECTRICAL

- E-1 ELECTRICAL LAYOUT PLAN, RISER DIAGRAM, LOAD SCHEDULE, GEN. NOTES

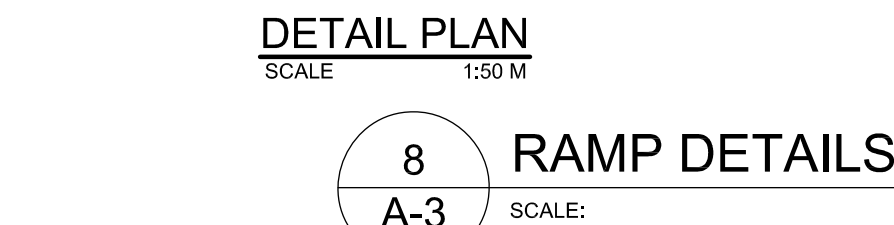
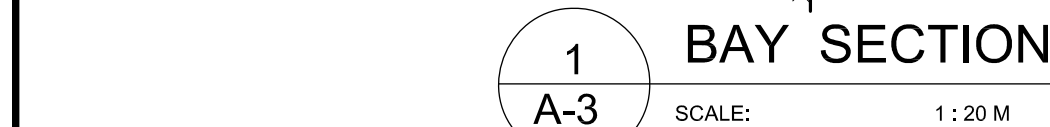
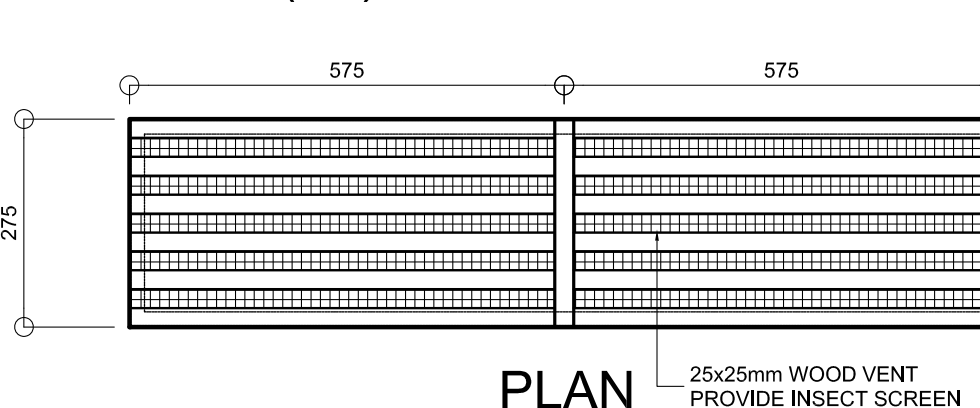
ELECTRICAL

SANITARY

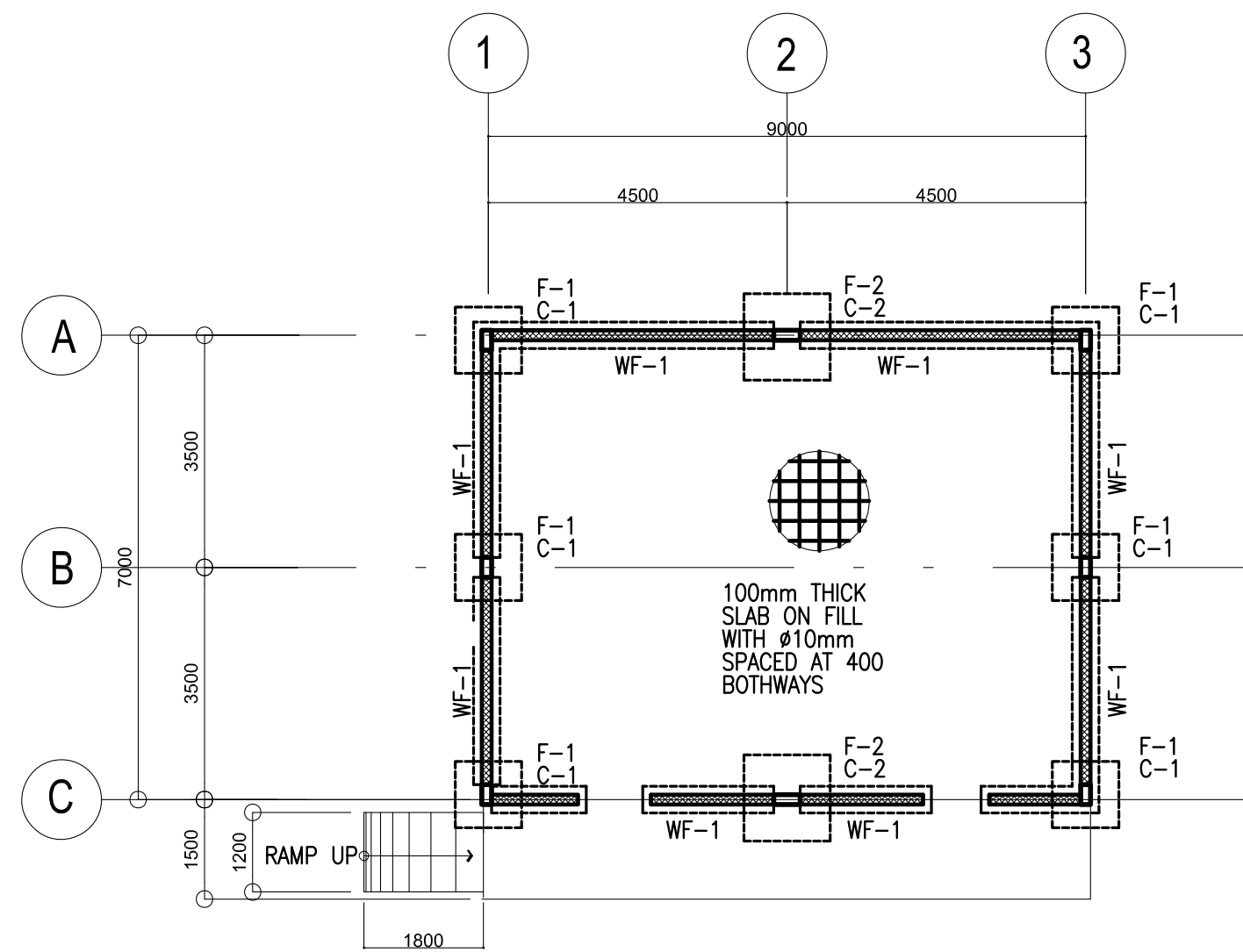
MECHANICAL



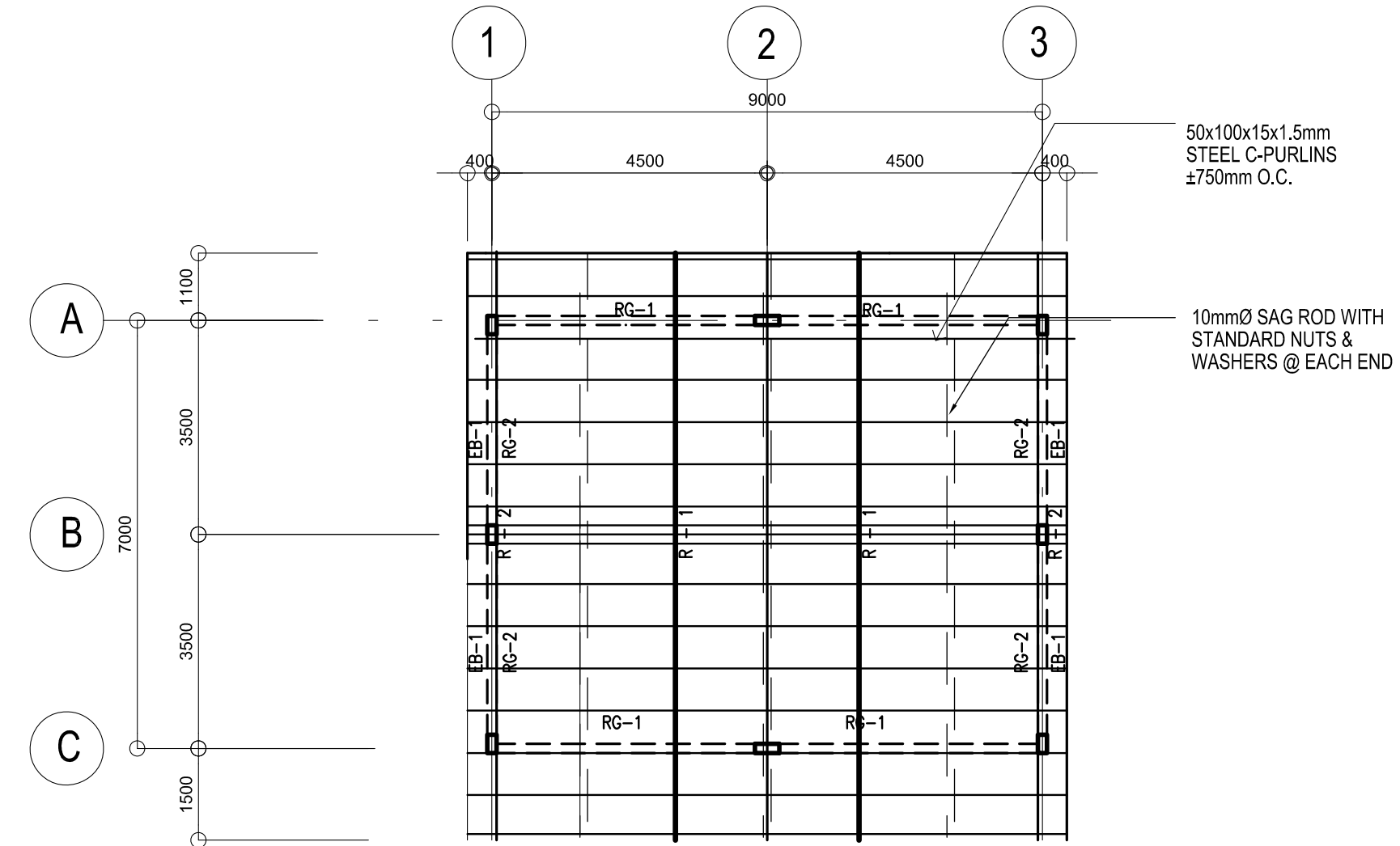
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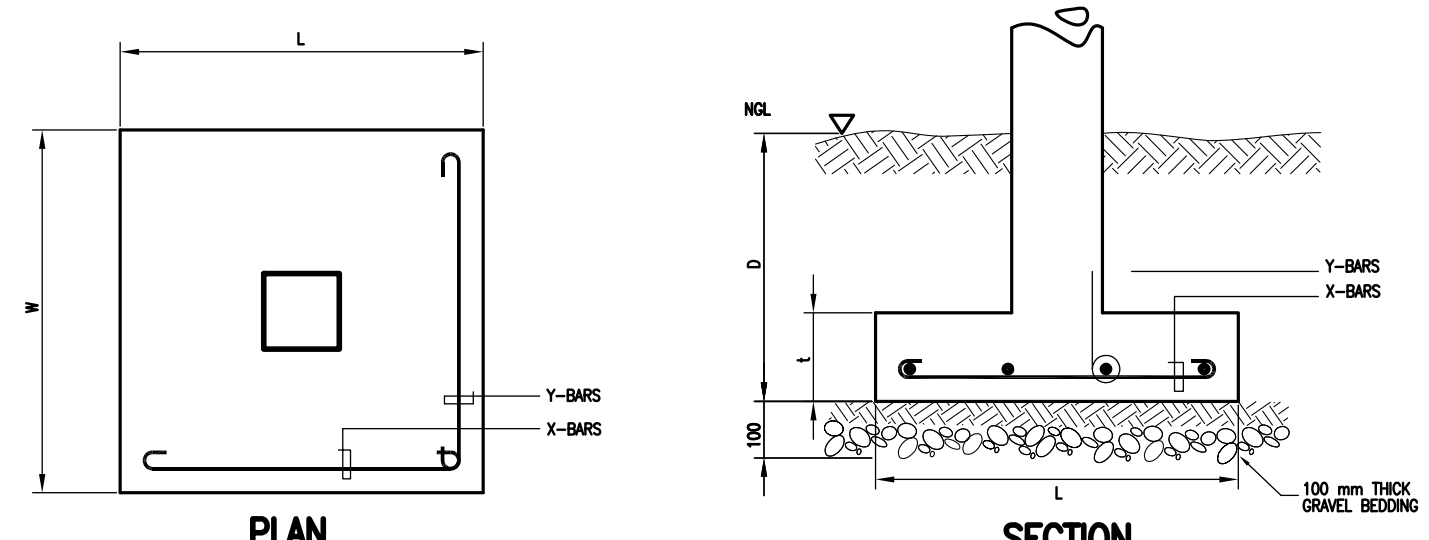


**A**  
**S-1** FOUNDATION PLAN  
SCALE 1:100 M.

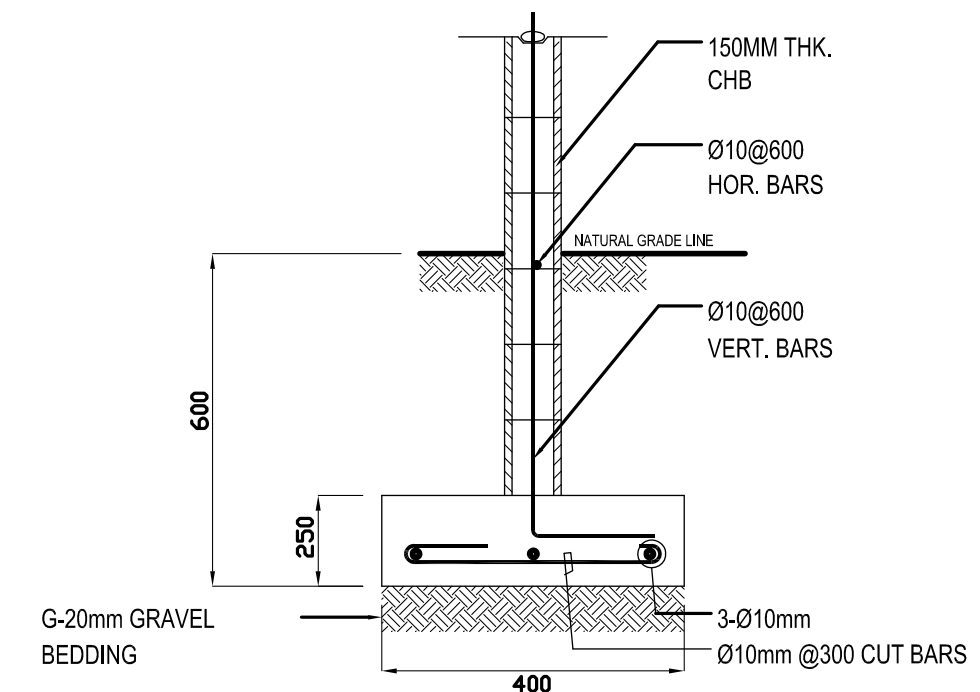


**B**  
**S-1** ROOF FRAMING PLAN  
SCALE 1:100 M.

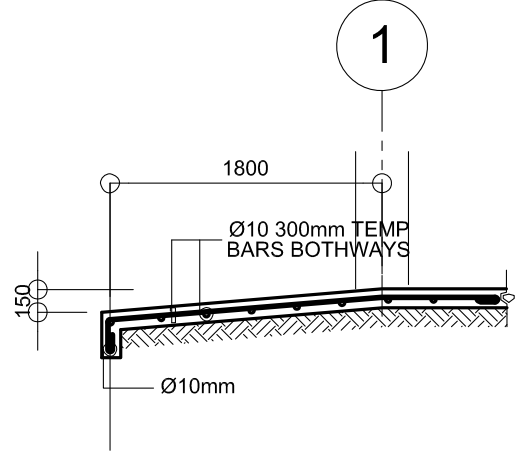
| COLUMN SCHEDULE                |   |   |
|--------------------------------|---|---|
| LEVEL                          | C-1   | C-2   |
| FOUNDATION LEVEL TO ROOF LEVEL | <p>MAIN BAR:<br/>4-<math>\phi</math>16mm</p> <p>TIES : <math>\phi</math>10 mm<br/>1<math>\phi</math>50, 8<math>\phi</math>75, REST <math>\phi</math>150mm TO CENTER</p> | <p>MAIN BAR:<br/>6-<math>\phi</math>16mm</p> <p>TIES : <math>\phi</math>10 mm<br/>1<math>\phi</math>50, 8<math>\phi</math>75, REST <math>\phi</math>150mm TO CENTER</p> |



**C**  
**S-1** TYP. FOOTING DETAIL  
SCALE: NTS



**D**  
**S-1** DETAIL OF WF-1  
SCALE: NTS.



**E**  
**S-1** DETAIL OF RAMP  
SCALE 1: 50M

| SCHEDULE OF FOOTINGS |                         |           |           |               |                 |                 |                |
|----------------------|-------------------------|-----------|-----------|---------------|-----------------|-----------------|----------------|
| FOOTING MARK         | FOOTING DIMENSIONS (mm) |           |           |               | REINFORCEMENT   |                 | REMARKS        |
|                      | LENGTH (L)              | WIDTH (W) | DEPTH (D) | THICKNESS (t) | BAR X           | BAR Y           |                |
| F-1                  | 800                     | 800       | 1200      | 250           | 4 - 16mm $\phi$ | 4 - 16mm $\phi$ | SQUARE FOOTING |
| F-2                  | 1000                    | 1000      | 1200      | 250           | 4 - 16mm $\phi$ | 4 - 16mm $\phi$ | SQUARE FOOTING |

DESIGN CRITERIA :

A. CONCRETE

$f'_c = 20.685 \text{ Mpa}$  ( 3,000 Psi ), minimum compressive strength of concrete a 28 days unless otherwise specified.

B. REBAR

$f_y = 275.8 \text{ Mpa}$  ( 40,000 Psi ), minimum yield strength of reinforcing bars unless otherwise specified.

C. STRUCTURAL STEEL

$F_y = 248 \text{ Mpa}$  ( 36 Ksi ), specified minimum yield strength unless otherwise specified.

D. FOUNDATION

SBP = 95.706 Kpa ( 2,000 Psf ), was used in the design for all footings. No footing shall rest on fill.

|   |  |                    |                        |                             |                    |  |                     |  |            |
|---|--|--------------------|------------------------|-----------------------------|--------------------|--|---------------------|--|------------|
| <p>REPUBLIC OF THE PHILIPPINES<br/>DEPARTMENT OF EDUCATION (DepED)<br/>TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING<br/>MERALCO AVENUE, PASIG CITY</p> | CONSULTANT / DESIGNER  | REVIEWED BY:       | RECOMMENDING APPROVAL: | APPROVED FOR ACCREDITATION: | CONCURRED:         | PROJECT TITLE:                                 | PROJECT NO.: 01-002 | OWNER:   | SHEET NO.: |
|   | ALBERT Z. DE BELEN   | ALBERT Z. DE BELEN | ALBERT Z. DE BELEN     | ALBERT Z. DE BELEN          | ALBERT Z. DE BELEN | ONE STOREY<br>ONE CLASSROOM<br>7x9m (STANDARD) | DESIGNED BY: AZB    | DEPARTMENT OF EDUCATION<br>DepED   | S-1        |
|   | ARCHITECT IV<br>PRC NO.: 0010990 TIN: 149 460 161<br>PTR NO.: DATE: 27 OCT. 2002 | ALBERT Z. DE BELEN | ALBERT Z. DE BELEN     | ALBERT Z. DE BELEN          | ALBERT Z. DE BELEN | LOCATION:                                      | ENCODDED BY: Max C  | DEPARTMENT OF EDUCATION<br>DepED   |            |
|   |  | ALBERT Z. DE BELEN | ALBERT Z. DE BELEN     | ALBERT Z. DE BELEN          | ALBERT Z. DE BELEN |  | CHECKED BY:         | SHEET CONTENTS:<br>FOUNDATION PLAN, ROOF FRAMING PLAN<br>FOOTING DETAIL, COLUMN DETAIL, WF-1,<br>RAMP DET. | 2          |

NOTE: THIS DRAWING, AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING AND AS SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT THEIR PERMISSION. ALL DRAWINGS ARE TO BE RETURNED WHEN NO LONGER IN USE.



1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATION OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. ALL ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
2. THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE, 230 V AC, 60 Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS :
  - a. FEEDERS AND RISERS – RIGID METALLIC CONDUIT
  - b. LIGHTING, POWER RECEPTACLE – POLYVINYL CHLORIDE CONDUIT  
BRANCH CKT., & AUXILIARY SCH. 40
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm<sup>2</sup> AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mmø TRADE/NOMINAL SIZE.
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE.
7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
  - a. LIGHT SWITCH – 1.20 M ABOVE FINISH FLOOR
  - b. CONVENIENCE OUTLET – 0.30 M ABOVE FINISH FLOOR.
  - c. SAFETY SWITCH – 1.80 M ABOVE FINISH FLOOR

| SYMBOL  | DESCRIPTION  |
|---|--|
|  | — CEILING LIGHT OUTLET   |
|  | — 2 x 40 WATTS FLUORESCENT LAMP  |
|  | — CEILING FAN OUTLET   |
| S/Sa  | — ONE GANG DEVICE SWITCH   |
| Sab   | — TWO GANG DEVICE SWITCH   |
| Scde  | — THREE GANG DEVICE SWITCH   |
| \$W   | — THREE WAY DEVICE SWITCH  |
| Sf  | — FAN CONTROL SWITCH   |
|  | — RACEWAY CONDUIT CONCEALED IN CEILING   |
|  | — RACEWAY CONDUIT CONCEALED UNDER FLOOR  |
|  | — SAFETY SWITCH  |
|  | — DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE<br>10 AMPS, 250 VOLT WITH MODERN PLATE COVER |
|  | — ELECTRIC SERVICE METER   |
|  | — SERVICE ENTRANCE   |

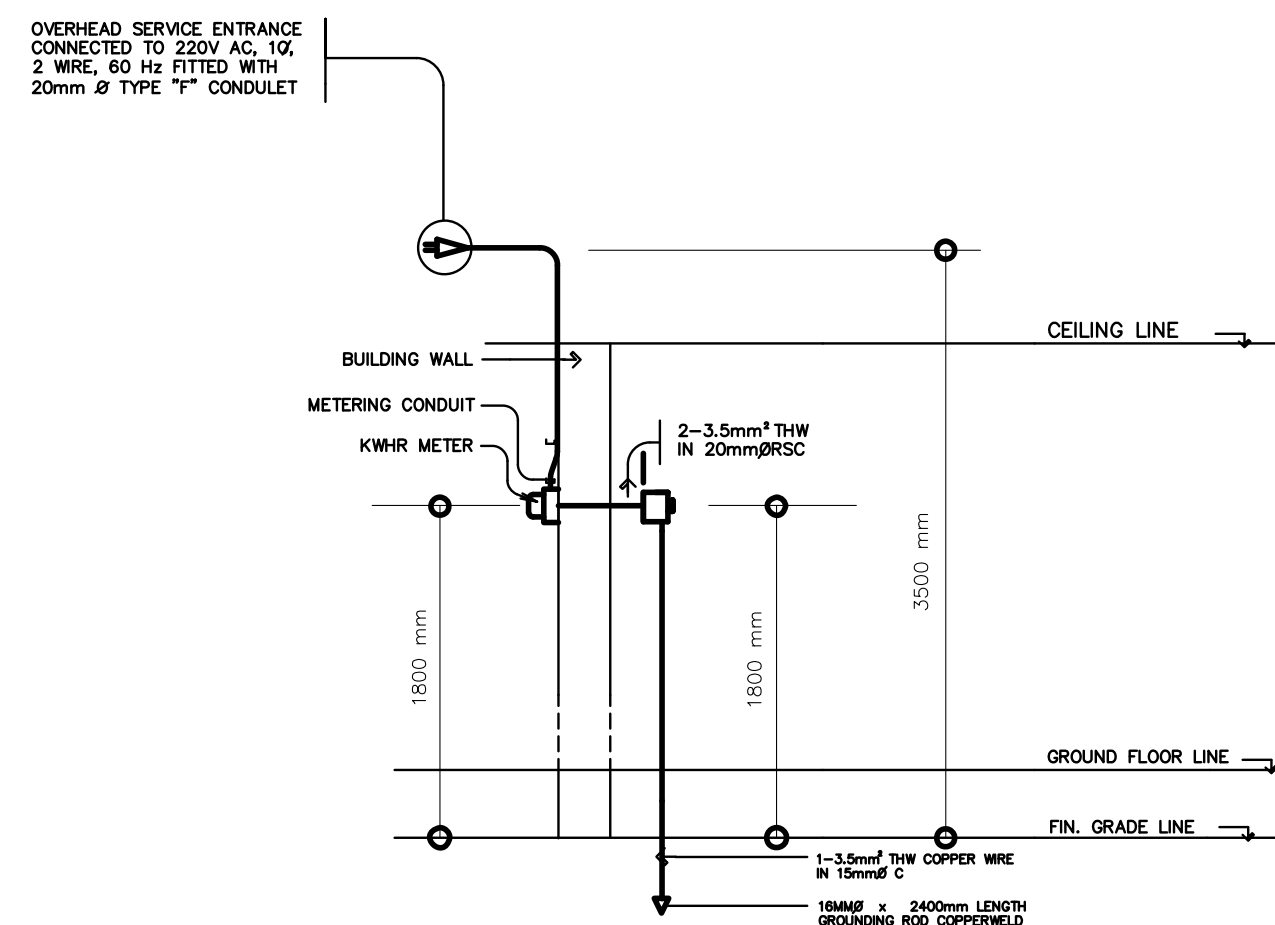


Diagram illustrating the wiring layout for a Classroom, showing the main service entrance (S) and various outlets (a, b) and switches (c) connected to the main service entrance. The diagram includes a grid system with columns 1, 2, 3 and rows A, B, C.

Labels in the diagram include:

- 1, 2, 3 (Columns)
- A, B, C (Rows)
- CLASSROOM
- S (Main Service Entrance)
- Sf (Switch/Fuse)
- Sabc (Switch/Fuse)
- a, b (Outlets)
- c (Switch)
- f (Central Fixture)

OVERHEAD SERVICE ENTRANCE REFER TO RISE DIAGRAM






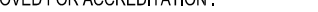

1. TOTAL LOAD:

|                       |           |           |              |
|-----------------------|-----------|-----------|--------------|
| A. LIGHTING OUTLET    | 5 x 100 W | =         | 500 W        |
| B. FAN OUTLET         | 1 x 100 W | =         | 100 W        |
| C. CONVENIENCE OUTLET | 2 x 180 W | =         | <u>360 W</u> |
| TOTAL LOAD            |           | =         | 960 W        |
| I LOAD                |           | 960 / 230 | = 4.17 A     |
2. CIRCUIT REQUIREMENT:

USE 20 A 2-WIRE CIRCUIT
3. SERVICE ENTRANCE CONDUCTORS:

USE 2-3.5 mm<sup>2</sup> THW COPPER WIRES
4. SERVICE EQUIPMENT:

USE 1-30 A, 2PST, 250V SAFETY SWITCH WITH 2-20 A, RENEWABLE FUSES

|  |   |   |  |   |   |  |  |                                  |  |   |
|--|---|---|--|---|---|--|--|----------------------------------|--|---|
| <div><div>REPUBLIC OF THE PHILIPPINES<br/>DEPARTMENT OF EDUCATION (DepED)<br/>TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING<br/>MERALCO AVENUE, PASIG CITY</div></div> | CONSULTANT / DESIGNER   | REVIEWED BY:  | RECOMMENDING APPROVAL :  | APPROVED FOR ACCREDITATION :  | CONCURRED :   | PROJECT TITLE :                                | PROJECT NO: 99-001   | OWNER :                          | SHEET NO:  |   |
|  | <div><br/>ALBERT Z. DE BELEN</div> <div>ARCHITECT IV<br/>PRC NO.: 0010990 TIN: 149 460 161<br/>PTR NO.: DATE: 27 OCT. 2002</div> | <div><br/>ENGR. REMY S. TAPAY<br/>CHIEF ARCHITECTURAL DIVISION<br/>BUREAU OF DESIGN, DPWH</div> | <div><br/>SOPHIA T. SANTIAGO<br/>OIC, DIRECTOR III<br/>BUREAU OF DESIGN, DPWH</div> | <div><br/>GILBERT S. REYES<br/>OIC, DIRECTOR IV<br/>BUREAU OF DESIGN, DPWH</div> | <div><br/>RAMON C. BACANI<br/>UNDERSECRETARY<br/>DEPARTMENT OF EDUCATION (DepED)</div> | ONE STOREY<br>ONE CLASSROOM<br>7x9m (STANDARD) | DESIGNED BY: RDS<br>ENCODED BY: RDS<br>CHECKED BY:<br>DATE: 5-6-00 | DEPARTMENT OF EDUCATION<br>DepED | SHEET CONTENTS :<br>GENERAL NOTES<br>ELECTRICAL LAYOUT | CALCULATIONS<br>LEGEND<br>RISER DIAGRAM |
|  |   |   |  |   |   | LOCATION :                                     |  |                                  |  | <div>E-1</div> <div>1</div>             |

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