



Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Lucban, Quezon



REQUEST FOR QUOTATION

FABRICATION AND INSTALLATION OF TRUSSES AND ROOFING FOR PHYSICAL AND NATURAL SCIENCE BUILDING IN SLSU LUCENA (PMO)

Purchase Request No. 2026-03-0931
Approved Budget for the Contract: ₱ 1,920,000.00

The Southern Luzon State University through the Bids and Awards Committee invites interested firms/supplier to submit quotation for the procurement of **Fabrication and Installation of Trusses and Roofing for Physical and Natural Science Building in SLSU Lucena (PMO)** to apply the sum of **One Million and Nine Hundred Twenty Thousand Pesos Only (₱ 1,920,000.00)** inclusive of VAT, being the **Approved Budget for the Contract (ABC)**, details as follows:

| Qty. | Unit | ITEM/S DESCRIPTION |
|------|------|--|
| 1 | lot | Fabrication and Installation of Trusses and Roofing for Physical and Natural Science Building in SLSU Lucena |

1. The quotation must be submitted (can also be sent thru email at the contact details listed below) or to the Office of the Procurement Office/Bids and Awards Committee, Southern Luzon State University, 2nd Flr. Hermano Puli Building, and shall be received by the Committee.

E-mail : slsuprourement@slsu.edu.ph

2. The SLSU reserves the right to reject any or all quotations and/or proposals and waive any formalities/ informalities therein and to accept such bids it may consider as most advantageous to the agency and to the government. Southern Luzon State University SLSU neither assumes any obligation for whatsoever losses that may be incurred in the preparation of bids, nor does it guarantee that an award will be made.


MARIDEL C. ZABELLA
Director, Procurement Office
Southern Luzon State University
Lucban, Quezon
Tel. No.: (042)540-6519

Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Project Management Office
Lucban , Quezon

PROJECT TITLE : Fabrication and Installation of Trusses and Roofing for Physical and Natural Science in SLSU Lucena

PROJECT LOCATION: SLSU Lucena Campus, Lucena City, Quezon

OWNER : Southern Luzon State University

ABC : P 1,920,000.00

PROJECT DURATION : 120 Calendar Days

SUMMARY

| ITEM | DESCRIPTION | COST OF MATERIALS | COST OF LABOR AND EQUIPMENT | TOTAL |
|----------------------|-------------------------------|---|-----------------------------|----------|
| I | GENERAL REQUIREMENTS | | | |
| II | REINFORCED CONCRETE WORKS | | | |
| III | FORM WORKS AND SCAFFOLDING | | | |
| IV | STEEL TRUSS AND ROOFING WORKS | | | |
| | | TOTAL ESTIMATED DIRECT COST | | P |
| | | <i>OVERHEAD, CONTINGENCIES & MISC.(OCM)</i> | | <i>P</i> |
| INDIRECT COST | | <i>CONTRACTOR'S PROFIT</i> | | <i>P</i> |
| | | <i>VALUE ADDED TAX (VAT)</i> | | <i>P</i> |
| | | TOTAL PROJECT COST | | P |

TOTAL PROJECT COST IN WORDS: _____

CONTRACTOR/BIDDER: _____

Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Planning and Development Office
Lucban , Quezon

PROJECT TITLE : Fabrication and Installation of Trusses and Roofing for Physical and Natural Science in SLSU Lucena

PROJECT LOCATION: SLSU Lucena Campus, Lucena city, Quezon

OWNER : Southern Luzon State University

MODE OF IMPLEMENTATION : by Contract

PROJECT DURATION : 120 Calendar Days

BILL OF MATERIALS

| I. GENERAL REQUIREMENTS | | | | |
|--------------------------------|------|--|-------------|--------|
| Quantity | Unit | Description | Direct Cost | Amount |
| 1 | lot | Mobilization/Demobilization | | |
| 1 | lot | Project Identification Tarpaulin | | |
| 1 | lot | Site Clearing and Hauling | | |
| 1 | lot | Temporary Facility | | |
| 1 | lot | Construction Safety and Health Program | | |
| SUB-TOTAL | | | | |

| II. REINFORCED CONCRETE WORKS | | | | |
|--------------------------------------|------|-----------------------------|-------------|--------|
| Quantity | Unit | Description | Direct Cost | Amount |
| | bags | Portland Cement | | |
| | cu.m | Gravel (G 3/4) | | |
| | cu.m | Sand | | |
| | pcs | Ø16mm Reinforcing Steel Bar | | |
| | pcs | Ø10mm Reinforcing Steel Bar | | |
| | kgs. | No. 16 G.I. Tie Wire | | |
| 1 | lot | Consumables | | |
| SUB-TOTAL | | | | |

| III. FORM WORKS AND SCAFFOLDING | | | | |
|--|------|-------------------------------|-------------|--------|
| Quantity | Unit | Description | Direct Cost | Amount |
| | bdft | 2"x2"x10' Coco Lumber | | |
| | pcs. | 1/2" thk 4'x8' Phenolic board | | |
| | kgs. | Assorted Common Nail | | |
| SUB-TOTAL | | | | |

| IV. STEEL TRUSS AND ROOFING WORKS | | | | |
|--|------|--|-------------|--------|
| Quantity | Unit | Description | Direct Cost | Amount |
| | l.m. | 0.50 mm thk Prepainted Rib Type Roofing Panels (Long Span) | | |
| | pcs. | Colored Plain Sheet 4'x8'x0.50mm thk | | |
| | pcs. | 100mm x 50mm x 1.6mm thk C-purlins, 6m | | |
| | pcs. | GI pipe 5" Ø 5.00mm thk, Sch 40 | | |
| | pcs. | GI pipe 3" Ø 3.00mm thk, Sch 40 | | |
| | pcs. | GI pipe 2" Ø 3.00mm thk, Sch 40 | | |
| | pcs. | 10mm Ø Plain Round Bars | | |
| | pcs. | Fascia Board 2.40x0.40mx12mm thk | | |

Handwritten signature

| | | | | |
|---|-------|-----------------------|--|--|
| | gals. | Epoxy Primer Paint | | |
| | gals. | Quick Dry Enamel | | |
| | gals. | Paint Thinner | | |
| | box | Metal TekscREW 2 1/2" | | |
| | pcs. | Cut off wheel 14" | | |
| | kgs | Welding rod | | |
| 1 | lot | Consumables | | |

SUB-TOTAL



PROJECT TITLE: Rehabilitation of Physical and Natural Science Building

PROJECT LOCATION: SLSU Lucena Campus, Lucena City, Quezon

OWNER: Southern Luzon State University

PROJECT DURATION: 120 Calendar Days

SUBJECT: Scope of Works

SCOPE OF WORKS

I. GENERAL REQUIREMENTS

- Mobilization and Demobilization.
- Project Identifications
- Site Clearing and Hauling
- Temporary Facility
- Construction Safety and health program

II. CONCRETE WORKS

- Concreting of Pedestal in accordance to NSCP Standard.
- Supply and installation of deformed bars on concrete pedestal.

III FORM WORKS AND SCAFFOLDING

- The work includes the Construction and installation of formworks and scaffolding, Fabrication of column forms and erection of the forms and scaffolding and Dismantling/stripping of form works.

IV. STRUCTURAL STEEL

- Fabrication of steel trusses and steel post
- Weld all shop assembled connections continuous without undercut and or distortion of truss
- Grind and or dress exposed welds smooth and flush to corner or fillet without weakening connection.
- Splices and expansion joints shall utilize internal splice connectors with set screws to allow for expansion over ambient temperature change.
- Roofing materials to be installed shall be brand new and must conform with specifications according to plans or approved equivalent by the supervising engineer.
- Supply and installation of pre-painted roofing sheets and other accessories needed to finish the roof according to plan.
- Color of pre-painted roofing sheets must be approved by SLSU Representative before installation.

Republic of the Philippines
Southern Luzon State University
Project Management office
Lucban, Quezon

Prepared by:



ENGR. JOEL E. MORALES
Project Development Officer I

Reviewed by:



ENGR. MARI KEVIN A. MAKIPAGAY
Project Development Officer II

Recommending approval:



ENGR. MELVIN A. MAKIPAGAY
Director, Project Management Office

Approved by:



FREDERICK VILLA, DT
University President

Republic of the Philippines
Southern Luzon State University
Project Management office
Lucban, Quezon

PROJECT TITLE: Rehabilitation of Physical and Natural Science Building
PROJECT LOCATION: SLSU Lucena Campus, Lucena City, Quezon
OWNER: Southern Luzon State University
PROJECT DURATION: 120 Calendar Days
SUBJECT: Minimum Technical Personnel and Equipment

MINIMUM TECHNICAL PERSONNEL AND EQUIPMENT

| QUANTITY | MINIMUM TECHNICAL PERSONNEL |
|----------|-----------------------------------|
| 1 | Project Manager/ Project Engineer |
| 1 | Foreman |
| 4 | Skilled Worker |
| 4 | Laborers |

| QUANTITY | MINIMUM EQUIPMENT |
|----------|-------------------|
| 1 unit | Cut – Off Machine |
| 1 unit | Welding Machine |

Prepared by:


ENGR. JOELLE MORALES
Project Development Officer I

Reviewed by:


ENGR. MARIKEVIN A. MAKIPAGAY
Project Development Officer II

Recommending approval:


ENGR. MELVIN A. MAKIPAGAY
Director, Project Management Office

Approved by:


FREDERICK T. VILLA, DT
University President

Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Project Management Office
Lucban, Quezon

PROJECT TITLE : Fabrication and Installation of Trusses and Roofing for Physical and Natural Science In SLSU Lucena
PROJECT LOCATION: SLSU Lucena Campus, Lucena, Quezon
OWNER : Southern Luzon State University
MODE OF IMPLEMENTATION : by Contract
PROJECT DURATION : 120 Calendar Days

PERT-CPM/GANTT CHART

| ITEM | TASK NAME | DURATION | | TIMELINE | | | | | | | | | | | | |
|-------------|--|----------|------|----------|----|----|----|----|----|----|----|----|-----|-----|-----|--|
| | | | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | |
| I. | GENERAL REQUIREMENTS | | | | | | | | | | | | | | | |
| | Mobilization/ Demobilization | 120 | days | | | | | | | | | | | | | |
| | Demolition and site Clearing | 120 | days | | | | | | | | | | | | | |
| II. | REINFORCED CONCRETE WORKS | | | | | | | | | | | | | | | |
| | Fabrication and Installation of rebars | 5 | days | | | | | | | | | | | | | |
| | concreting | 5 | days | | | | | | | | | | | | | |
| III. | FORMWORKS AND SCAFFOLDING | | | | | | | | | | | | | | | |
| | Carpentry Works | 5 | days | | | | | | | | | | | | | |
| | Installation of Scaffoldings | 50 | days | | | | | | | | | | | | | |
| IV. | STEEL TRUSSES AND ROOFING WORKS | | | | | | | | | | | | | | | |
| | Fabrication of Trusses | 30 | days | | | | | | | | | | | | | |
| | Installation of Roofing | 30 | days | | | | | | | | | | | | | |

Prepared by :


ENGR. JOEL E. MORALES
Project Development Officer

Recommending Approval :


ENGR. MELVIN MAKIPAGAY
Director, Project Management Office

Approved by :


FREDERICK T. MILLA, DT
University President

PROJECT TITLE: Rehabilitation of Physical and Natural Science Building
PROJECT LOCATION: SLSU Lucena Campus, Lucena City, Quezon
OWNER: Southern Luzon State University
PROJECT DURATION: 120 Calendar Days
SUBJECT: Specification of materials and finishes

SPECIFICATION OF MATERIALS AND FINISHES

GENERAL

- All applicable provisions of the different divisions of the Specifications for each work shall apply for all items cited in this schedule.
- Discrepancy arising from this section of the Contract Documents must be brought to the attention of the Owner or representative Architect/Engineer whose decision shall be final.
- Materials deemed necessary to complete the works but not specifically mentioned in the Specification, Working, Drawing, or in the Contract Document shall be supplied and installed or applied in a workmanlike manner at prescribe or appropriate locations following the Standard Practice of Civil Engineering, National Building Code of the Philippines and Construction Procedures.
- All items with specified approved brand, manufacturer, supplier, fabricator, trademark and the like shall be strictly followed.
- The Contractor shall coordinate the work with the Project Management office to expedite the implementation of the project, most specially, during the milestones of the project.
- The Contractor shall supply all finishing accessories and furnishing fixtures as may be approved by the power or representative and shall be installed by the Contractor whenever required by the Owner or Representative.
- All works must be done within the timeline calendar days given except for Regular Holidays.

INTERPRETATION OF CONTRACT

- a. In case of conflict between the provisions of the Agreement or of any Contract Document, or between the provisions of one of the Contract Documents and the provisions of another Contract Document, or in case of discrepancy, defective description, error or omission in the Contract, the following rules shall be followed:

Rule 1: The Agreement and the Contract Documents shall be taken as mutually explanatory of one another. The various provisions of the Contract shall be interpreted together, attributing to the 5 doubtful ones that sense which may result from all of them taken jointly.

Rule 2: The provisions of the Civil Code of the Philippines on the interpretation of contracts and of the Rules of Court on the Interpretation of Documents shall be applied.

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Project Management office
Lucban, Quezon

Rule 3: Where the conflict between or among the provisions of the Agreement and/or the Contract Documents cannot be resolved by Rules 1 and 2, it shall be understood that:

- a. the Detailed Drawings shall prevail over the General Drawings;
- b. words and figures shall prevail over the Drawings;
- c. words shall prevail over figures in Contract Documents;
- d. written dimensions shall prevail over measured dimensions.

Rule 4: Where the conflict cannot be resolved by applying Rule 3 or where Rule 3 does not apply, the conflict shall be resolved by giving precedence to the Agreement or to provisions of a Contract Document higher in order of priority among the various documents which comprise the Contract. The order of priority among these documents shall be as follows:

- e. Agreement as modified by Notice of Award of Contract, if such be the case, and the Contractor's conformity thereto;
- f. Instruction to Bidders and any amendment thereto;
- g. Addenda to Bid Documents;
- h. Specifications;
- i. Drawings;
- j. Special Conditions of Contract;
- k. General Conditions of Contract;
- l. Other Contract Documents; and
- m. Other documents forming part of the Contract attached thereto or incorporated therein by reference.

Where the order of precedence is modified in the Agreement, such modified order of precedence shall be followed; however, the mere listing of Contract Documents in the Agreement or any Contract Document shall not be interpreted as establishing an order of precedence among them.

Rule 5: Where there is discrepancy, defective description, error or omission in any Contract Document, the Contract Documents shall be interpreted as being complementary to each other. Thus, what is called for in one Contract Document, although not mentioned in another Contract Document where it should have been mentioned, shall be deemed to be called for by the Contract.

Rule 6: The apparent silence of the Drawings, Specifications or any other Contract Document as to any detail, or the lack of detailed description concerning any part of the work, shall be understood to mean that good and accepted construction practice in accordance with the usage or custom of the place shall be followed.

Rule 7: Rules 1 to 6 shall yield to specific rules of interpretation in this document or in the Contract.

- b. The Owner shall resolve the conflict, or interpret or explain such discrepancy, defective description, error or omission.
- c. The interpretation of or explanation by the Owner shall be issued in the form of instructions to the Contractor. Where the Owner fails to issue the instruction in writing, the execution of that part of work affected by the interpretation or explanation without a timely objection or

protest of the Owner shall be deemed to have been executed in accordance with the Owner's explanation or interpretation.

- d. In all cases where a device, item or part of equipment is referred to in the singular number, it is intended that such reference shall apply to as many such devices, items, or parts as are required to complete the work.

I. GENERAL REQUIREMENTS

Mobilization/Demobilization

- Mobilization shall include all activities and associated costs for transportation of Contractor's personnel, equipment, and operating supplies to the site; establishment of temporary field offices, and other necessary general facilities for the Contractor's operations at the site; premiums paid for performance and payment bonds, including co-insurance and re-insurance agreements as applicable.
- Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not required or included in the contract from the site; including the disassembly, removal and the site cleanup of temporary offices and other facilities assembled on the site specifically for this contract.

Project Identification & Sign, Tarpaulin on Marine Plywood Backing

- The one (1) Project Billboards shall be strategically placed within the site vicinity; (As provided on the General Guidelines and Legal Mandates of the Commission on Audit to promote good governance through transparency and accountability, notifications to the public and other forms of announcement and/or publicity for or otherwise relating to the Projects/Programs/Activities (PPA) shall be made at the least possible cost.) Hence, for infrastructure projects, one (1) tarpaulin signboards must be suitably framed for outdoor display at the project location, and shall be posted as the award has been made. The design and format of the tarpaulin as shown below shall have the following specifications, as per RA 9184 Requirements:

| | |
|-------------|--|
| Tarpaulin: | White |
| Resolution: | 70 dpi |
| Font Size: | Main Information – 3" Sub Information – 1" |
| Font Color: | Black |
| Contents: | CONSTRUCTION OF (Name of Project and Location) CONTRACTOR : DATE STARTED : CONTRACT COMPLETION DATE : CONTACT COST : IMPLEMENTING OFFICE/ CONTACT NO. : SOURCES OF FUND : |

Site Clearing and Hauling

In this work the contractor shall remove all obstructions from a construction site to prepare it for construction and other works, all debris must be cleared on site.

Temporary Facility

In this work the contractor must provide temporary facility that will serve as stock room of their materials. This includes the water bill and electric bill consumption during the period of construction.

II. REINFORCED CONCRETE WORKS

- Cement shall conform to Portland Cement ASTM C150
- Concrete aggregates shall conform to ASTM C33 except the aggregates failing to meet these specifications but which have produced concrete to adequate strength and durability may be used to the approval of the Civil Engineer.
- Concrete cylinder samples for strength tests of each class of concrete shall be taken in min of 3 concrete samples. The cylinder samples for strength test shall be taken cured and tested in accordance with ASTM C172, ASTM C31 and ASTM C39.
- Admixtures to be used in concrete shall be subject to prior approval by the Structural Engineer.
- Cement and aggregates shall be stored in such a manner as to prevent their deterioration or the intrusion of foreign matter.
- Water used in mixing concrete shall be clean and free from injurious amounts of oil, acids, alkalis, salts, organic materials or other substances deleterious to concrete or steel. In addition, the mixing water for pre stressed concrete shall not contain deleterious amounts of chloride ion.

Mixing of concrete

- All concrete shall be mixed until there in uniform distribution of the materials and shall be discharges completely before the mixer is recharged.

Conveying of concrete

- Concrete shall be conveyed from the mixer to the place of final deposit by methods that will prevent the separation or loss of materials

Depositing of concrete

- Concrete shall be deposited as nearly as practicable in its final position to avoid segregation due to re handling or flowing.

Curing

- Concrete shall be maintained in a moist condition for at least 7 days after placing.
- Reinforcing bars shall conform to ASTM A615
- Reinforcing bars shall be stored in such a manner to prevent and lessen rusting and deterioration or intrusion of foreign matter.

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Lucban, Quezon

- Welding of the material in this specification should be approached with caution since no specific provisions have been included to enhance its weldability. When this steel is to be welded, a welding procedure suitable for the chemical composition and intended use or service should be used.

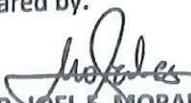
III. FORM WORKS AND SCAFFOLDINGS

- All formworks shall be formed, that columns and beams, and all other structure that needs form work, with quality to ensure smooth concrete pours.
- Ensure strength and safety in supports and scaffolding.

IV. STEEL TRUSS AND ROOFING WORKS

- Fabrication of steel trusses, installation of roof frame, pre-painted Ribbed type roof, cap flashing, gutter and other roof accessories.
- Weld all shop assembled connections continuous without undercut and or distortion of handrails
- Grind and or dress exposed welds smooth and flush to corner or fillet without weakening connection.
- Lightly sand and blend with fine grit paper all light scratches prior to finishing.
- Splices and expansion joints shall utilize internal splice connectors with set screws to allow for expansion over ambient temperature change.
- Supply and installation of GI rib type roof sheet 0.5mm thk 12 ft. or another equivalent approve by representative engineer/architect.

Prepared by:


ENGR. JOELLE E. MORALES
Project Development Officer I

Reviewed by:

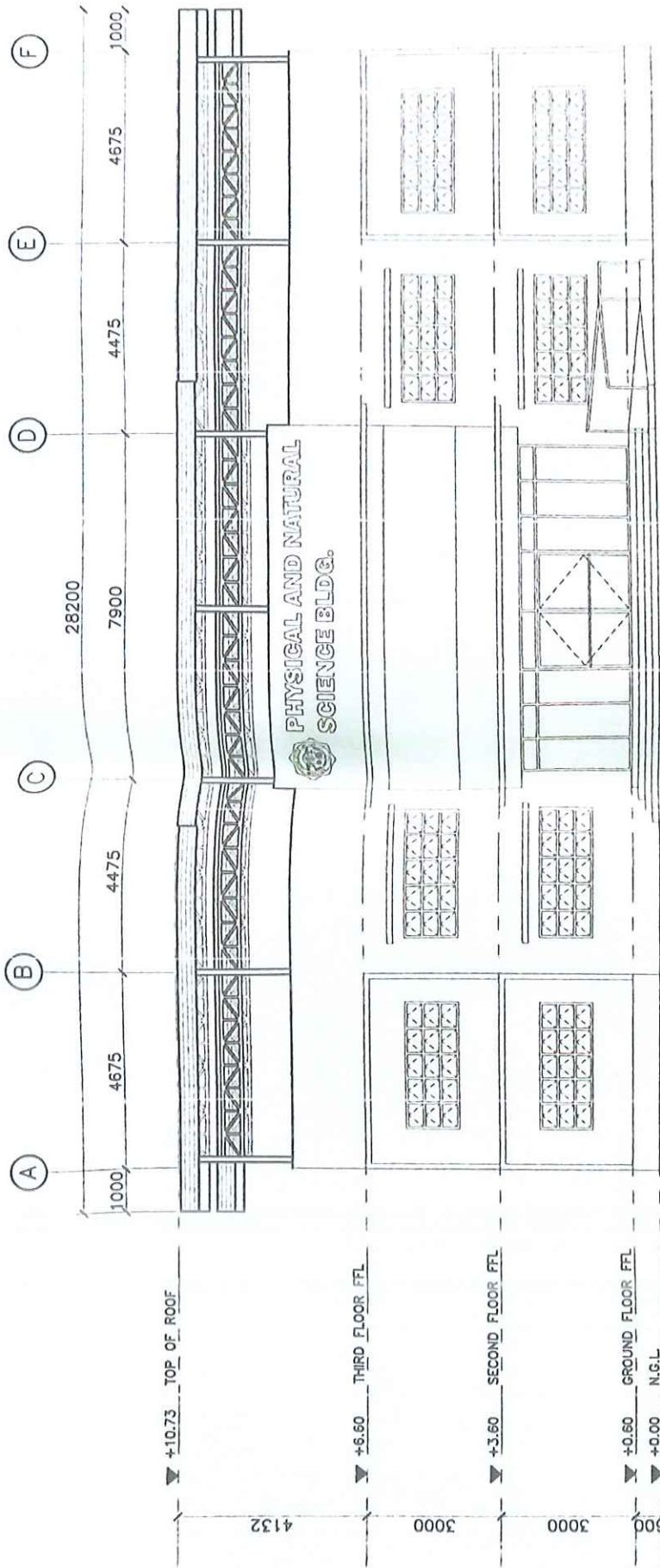

MARK KEVIN A. MAKIPAGAY
Project Development Officer II

Recommending approval:


ENGR. MELVIN A. MAKIPAGAY
Director, PDO Infrastructure Development

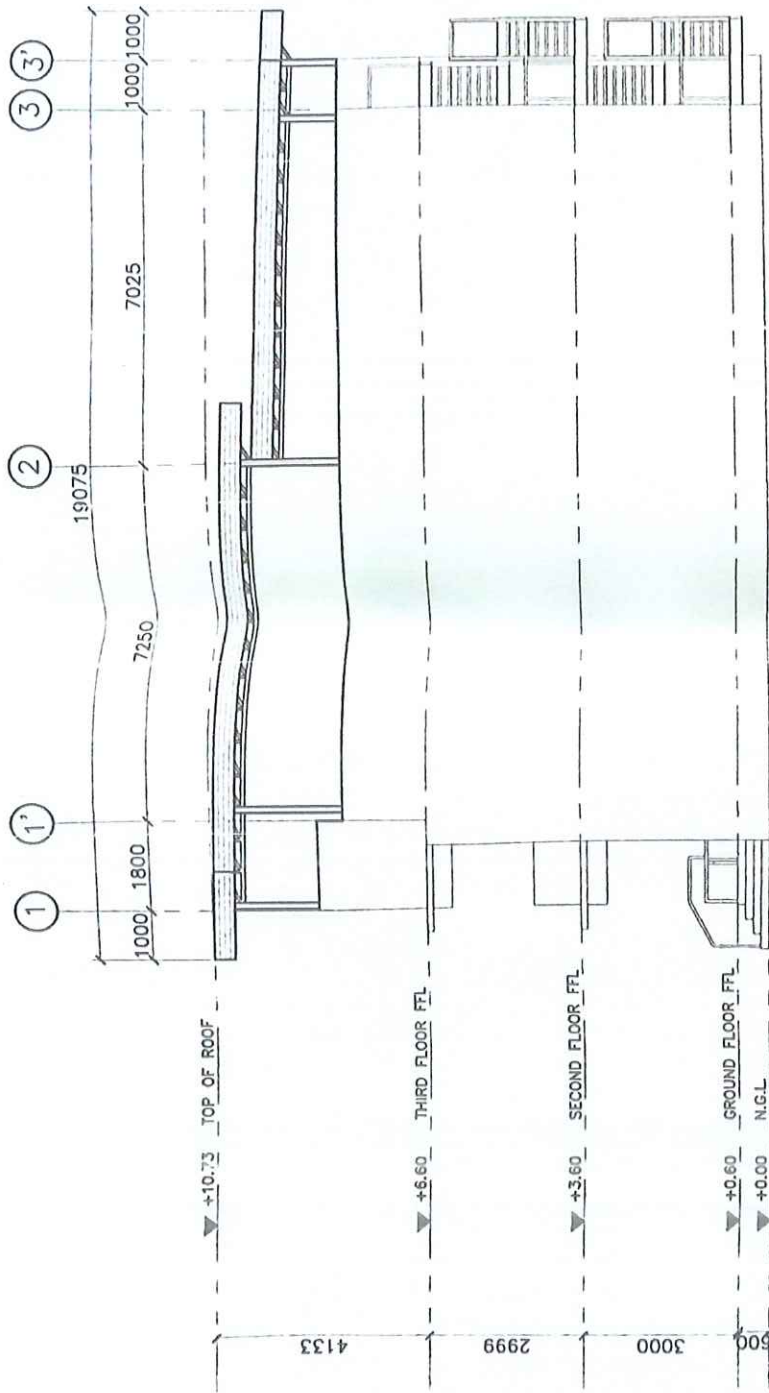
Approved by:


FREDERIC T. VILLA, DT
University President



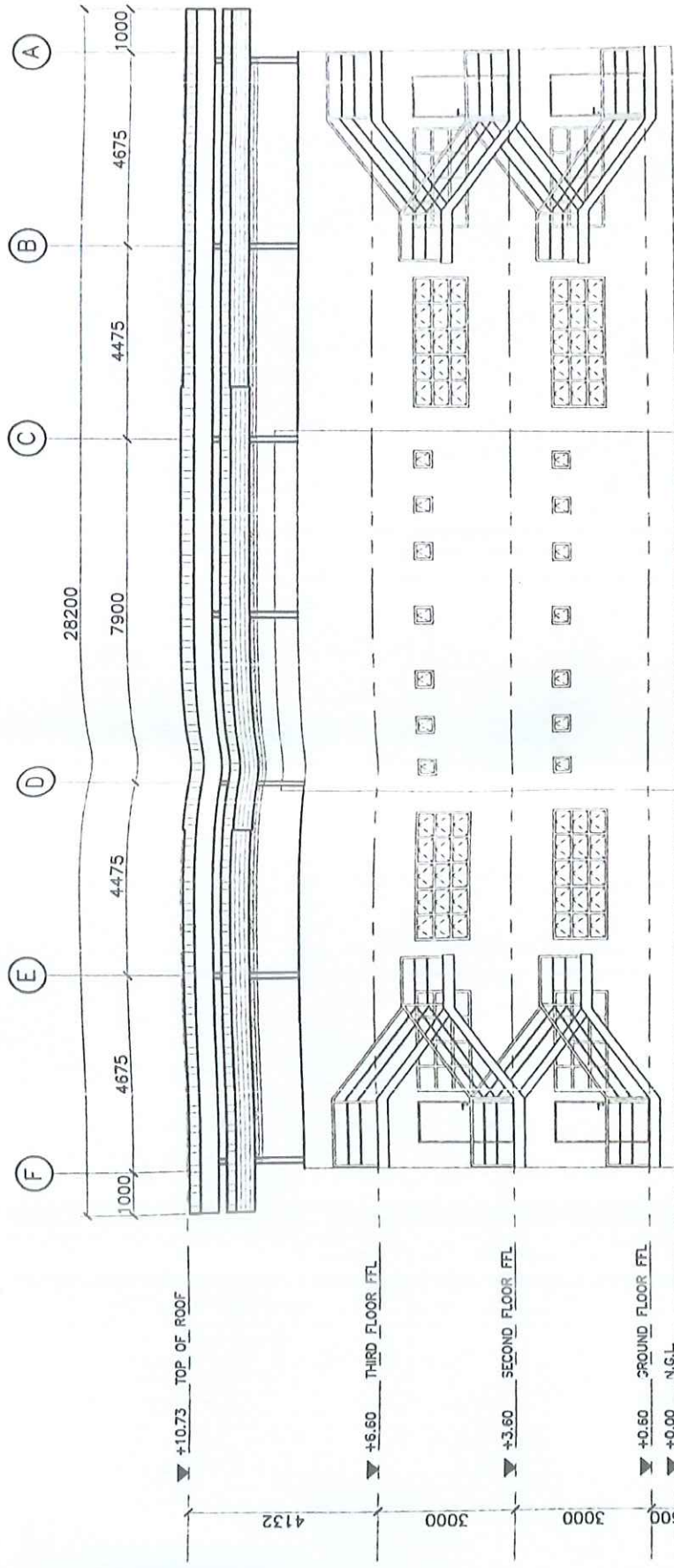
FRONT VIEW ELEVATION
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|--|--|--|--|--|---|-----------------------------|----------------|
| | ARCHITECT/STRUCTURAL ENGINEER: PROJECT TITLE: FABRICATION AND INSTALLATION OF AND ROOFING FOR PHYSICAL AND AND NATURAL SCIENCE IN SISU LUCENA | DRAWN BY: ENGR. JELYN A. ANDRAGAY PROJECT ARCHITECT OFFICE 1 1000 N. | REVISED BY: ENGR. MAEL ... PROJECT ARCHITECT OFFICE 2 ... | RECOMMENDING APPROVAL: ENGR. MELVIN ... PROJECT ARCHITECT OFFICE | APPROVED BY: FREDERICK T. VILLA, DT PROJECT ARCHITECT | SHEET CONTENTS: A 7 4 | SHEET NO. 4 |
|--|--|--|--|--|---|-----------------------------|----------------|




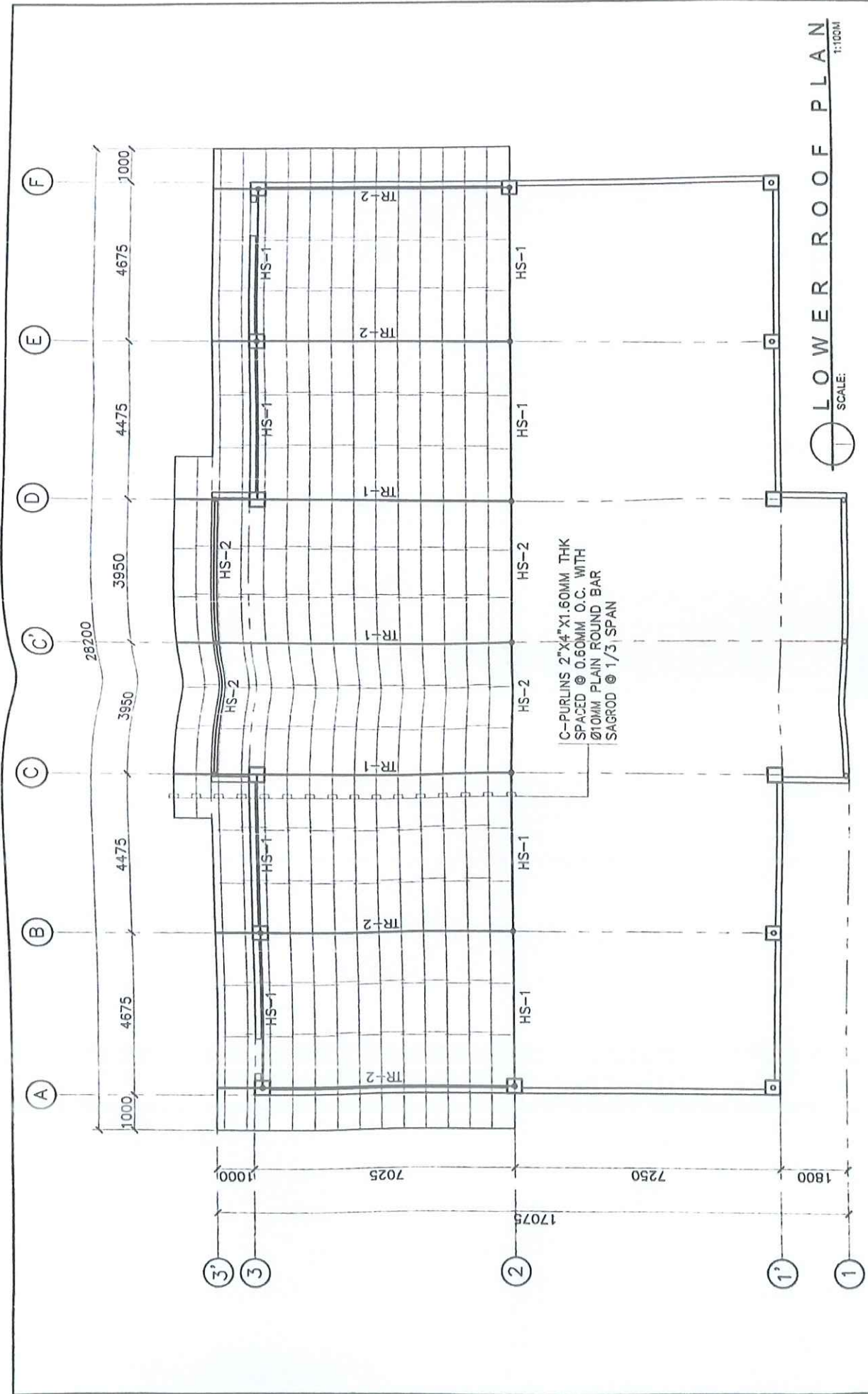
RIGHT VIEW ELEVATION
SCALE: 1:100M

| | | | | | | | | |
|--|---|---|---|--|---|---|-----------------------------|-----------------------|
| | ARCHITECT/STRUCTURAL ENGINEER: NAME: _____ NO. _____ DATE: _____ | PROJECT TITLE: FABRICATION AND INSTALLATION OF AND ROOFING FOR PHYSICAL AND AND NATURAL SCIENCE IN SLSU LUCENA | DRAWN BY: ENGR. MELVIN MAKIPAGAY PROJECT ENGINEER 1 (P.E. No. 10101) | REVIEWED BY: ENGR. MELVIN MAKIPAGAY PROJECT ENGINEER 3 (P.E. No. 10101) | RECOMMENDING APPROVAL: ENGR. MELVIN MAKIPAGAY DIRECTOR, PROJECT MANAGEMENT OFFICE | APPROVED BY: FREDERICK T. VILLA, DT PROJECT MANAGER | SHEET CONTENTS: MASSIVAN | SHEET NO. 5 A 7 |
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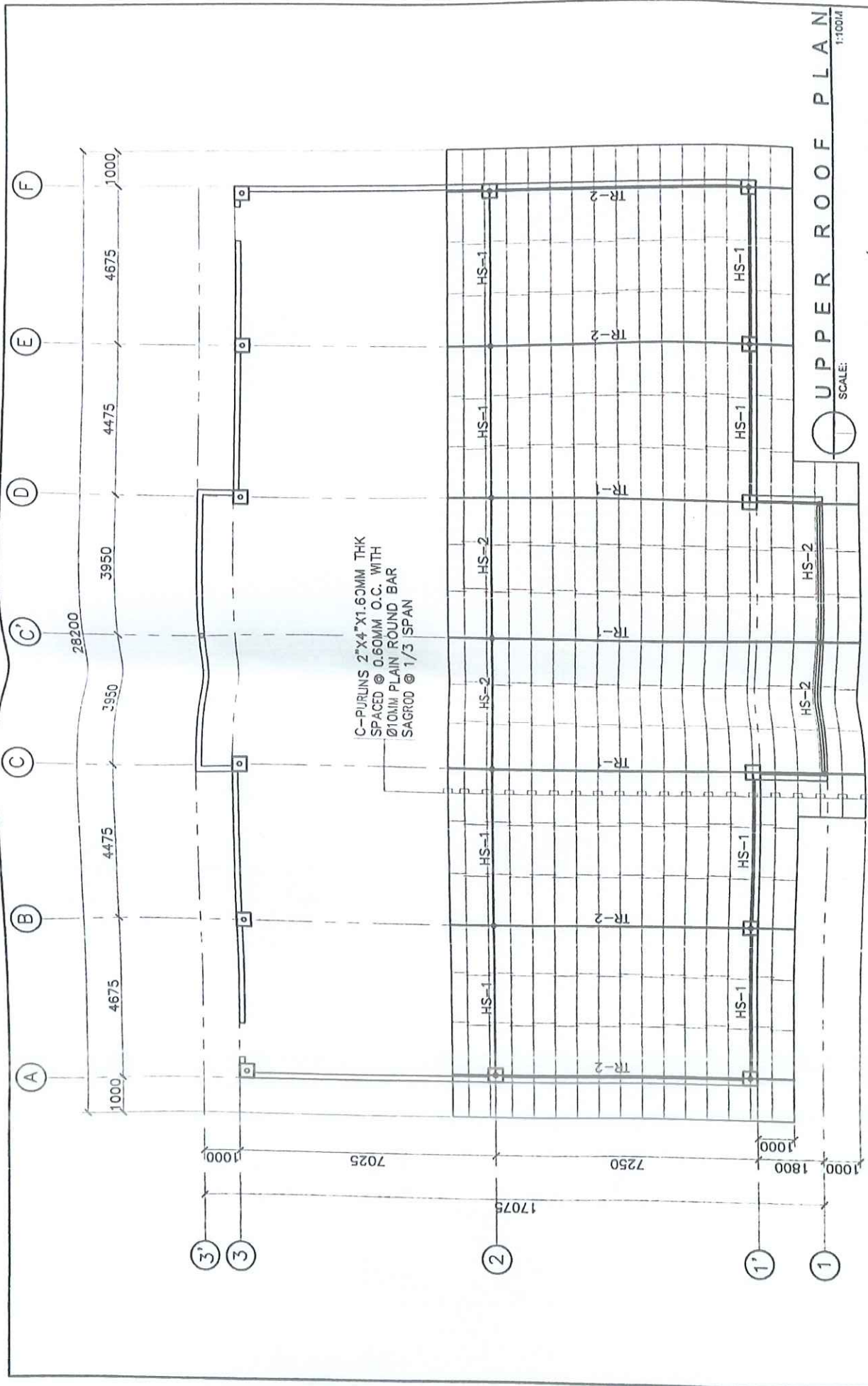
REAR VIEW ELEVATION
SCALE: 1:100M

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|  ARCHITECT/STRUCTURAL ENGINEER: | PROJECT TITLE: FABRICATION AND INSTALLATION OF AND ROOFING FOR PHYSICAL AND AND NATURAL SCIENCE IN SISU LUCENA | DRAWN BY: | REVIEWED BY: | RECOMMENDING APPROVAL: | APPROVED BY: | SHEET CONTENTS: | SHEET NO. |
| | | ENGR. JUAN TORALES PROJECT ENGINEER | ENGR. MELVIN M. MAKIPAGAY PROJECT ENGINEER | ENGR. MELVIN M. MAKIPAGAY PROJECT ENGINEER | ENGR. MELVIN M. MAKIPAGAY PROJECT ENGINEER | ENGR. MELVIN M. MAKIPAGAY PROJECT ENGINEER | AS SHOWN |



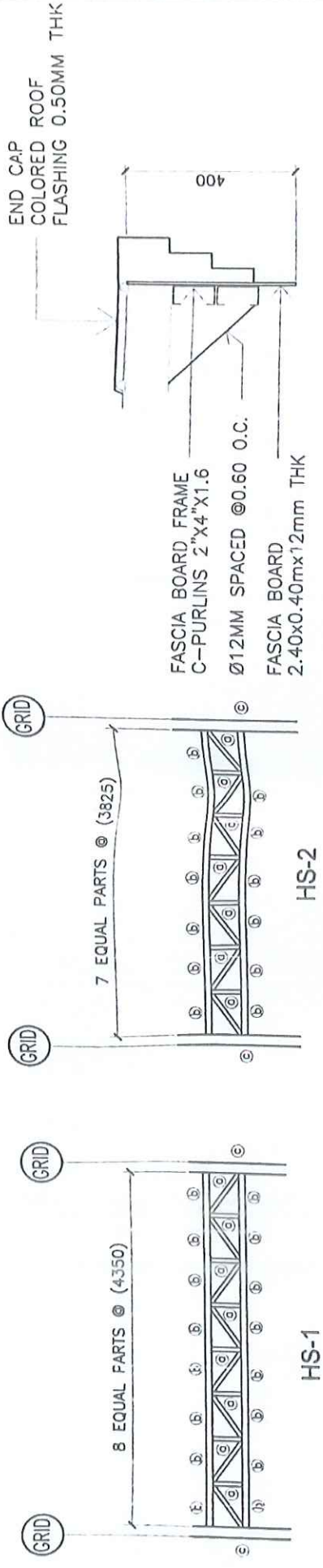
LOWER ROOF PLAN
SCALE: 1:100M

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|--|---|--|---|---|--|------------------------------------|----------------------------|
| | ARCHITECT/STRUCTURAL ENGINEER PROJECT TITLE: FABRICATION AND INSTALLATION OF AND ROOFING FOR PHYSICAL AND AND NATURAL SCIENCE IN SISU LUCENA | DRAWN BY: ENGR. MELVIN M. WAKIPAGAY PROJECT NO. 1 DATE: 08/20/2023 | REVIEWED BY: ENGR. MELVIN M. WAKIPAGAY PROJECT NO. 1 DATE: 08/20/2023 | RECOMMENDING APPROVAL: ENGR. MELVIN M. WAKIPAGAY PROJECT NO. 1 DATE: 08/20/2023 | APPROVED BY: FREDERICK T. VILLA, DT PROJECT NO. 1 DATE: 08/20/2023 | SHEET CONTENTS: AS SHOWN | SHEET NO. 1 5 |
| | GENERAL PROJECT MANAGER OFFICE | | | | | | |



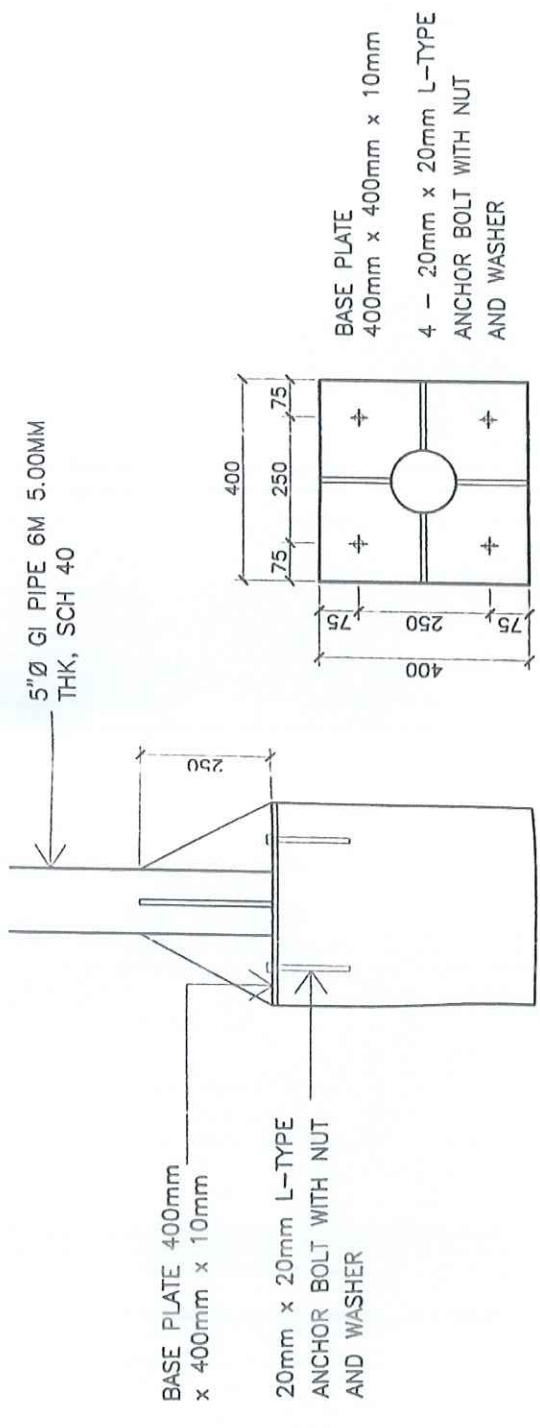
UPPER ROOF PLAN
 SCALE: $\frac{1}{1000}$

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|--|--|--|--|--|---|--|-----------------------------------|
|  ARCHITECT/STRUCTURAL ENGINEER | PROJECT TITLE: FABRICATION AND INSTALLATION OF AND ROOFING FOR PHYSICAL AND AND NATURAL SCIENCE IN SISU LUCENA | DRAWN BY:  ENGR. JOSE NORALES <small>PROJECT ENGINEER / OFFICE 1</small> | REVIEWED BY:  ENGR. MARYA M. GUNAGAY <small>PROJECT ENGINEER / OFFICE 2</small> | RECOMMENDING APPROVAL:  ENGR. REYNOLDO MAKIPAGAY <small>PROJECT ENGINEER / OFFICE 3</small> | APPROVED BY:  FREDERICK VILLA, DT <small>PROJECT ENGINEER</small> | SHEET CONTENTS: SYSTEMS 2 5 5 | SHEET NO. 2 1:1000/M |
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HORIZONTAL STRUT DETAILS
SCALE: 1:100M

END CAP DETAILS
SCALE: 1:100M



CONNECTION DETAILS (CD-1)
SCALE: 1:10M

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|--|---|---|--|--|--|-----------------------------|----------------|
| | ARCHITECT/STRUCTURAL ENGINEER PROJECT TITLE: FABRICATION AND INSTALLATION OF AND ROOFING FOR PHYSICAL AND AND NATURAL SCIENCE IN SLSU LUCENA | DRAWN BY: ENGR. MELVIN M. MAKIPAGAY PROJECT OFFICE 1 SLSU LUCENA | REVIEWED BY: ENGR. MELVIN M. MAKIPAGAY PROJECT OFFICE 2 SLSU LUCENA | RECOMMENDING APPROVAL: ENGR. MELVIN M. MAKIPAGAY PROJECT OFFICE 3 SLSU LUCENA | APPROVED BY: ENGR. MELVIN M. MAKIPAGAY PROJECT OFFICE 4 SLSU LUCENA | SHEET CONTENTS: AS SHOWN | SHEET NO. 5 |
| | VILLA DE... | | | | | | |