Republic of the Philippines
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO
OFFICE OF THE CHIEF MINISTER
BIDS AND AWARDS COMMITTEE
Bangsamoro Government Center, Governor Gutierrez Avenue, Rosary Heights VII, Cotabato City 9600

IN RE: COMPETITIVE PUBLIC BIDDING FOR THE CONSTRUCTION OF MADRASATUL HIDAAYAH AL-ISLAMEE IN BRGY. MACAGUILING, SULTAN KUDARAT, MAGUINDANAO DEL NORTE

ABC: PHP 21,800,499.84

IB NO.: SDF-2024-06-004

SUPPLEMENTAL BID BULLETIN NO. SDF-2024-06-004

June 24, 2024/ Dhul-Hijjah 18, 1445 AH

Please be advised of the following clarifications and Modifications on the Bidding Documents:

<table>
<tr><th>SUBJECT</th><th>ORIGINAL</th><th>AMENDED</th></tr>
<tr>
<td>1. List of Key Personnel (Bid Data Sheet Clause 10.4)</td>
<td>
<table>
<tr><th>Key Personnel</th><th>General Experience</th><th>Minimum Relevant Experience</th></tr>
<tr><td>1 Project Engineer</td><td>Construction</td><td>5 years</td></tr>
<tr><td>1 Safety Officer</td><td>Construction Safety and Health</td><td>3 years</td></tr>
<tr><td>1 Materials Engineer</td><td>Quality Assurance</td><td>3 years</td></tr>
<tr><td>1 Construction Foreman</td><td>Supervision</td><td>5 years</td></tr>
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<tr><td><u>1 Health Personnel</u></td><td><u>Basic Health Care in Construction</u></td><td><u>1 year</u></td></tr>
</table>
</td>
</tr>
</table>

<table>
<tr>
<td>2. Major Equipment Requirement (Bid Data Sheet Clause 10.5)</td>
<td>
<table>
<tr><th>Equipment</th><th>Minimum Specifications</th><th>Minimum Number of Units</th></tr>
<tr><td>Bar Cutter</td><td>25 mm max., single phase</td><td>1</td></tr>
<tr><td>One Bagger Mixer</td><td>4-6 cu.ft/min</td><td>1</td></tr>
<tr><td>Bar Bender</td><td>25 mm max., three phase</td><td>1</td></tr>
<tr><td>Cutting Outfit</td><td>-</td><td>1</td></tr>
<tr><td>Plate Compactor</td><td>5 hp</td><td>1</td></tr>
<tr><td>Dump Truck</td><td>12 cu. yd.</td><td>1</td></tr>
<tr><td>Welding Machine</td><td>Electric Driven, 500A</td><td>1</td></tr>
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<tr><td>Cutting Outfit</td><td>-</td><td>1</td></tr>
<tr><td>Plate Compactor</td><td>5 hp</td><td>1</td></tr>
<tr><td>Dump Truck</td><td>12 cu. yd.</td><td>2</td></tr>
<tr><td>Welding Machine</td><td>Electric Driven, 500A</td><td>1</td></tr>
</table>
</td>
</tr>
<tr><td>3. Section VI. Specifications</td><td colspan="2">See Annex “A”</td></tr>
<tr><td>4. Section VII. Drawings</td><td colspan="2">See Annex “B”</td></tr>
</table>

This Supplemental/Bid Bulletin is issued to modify or amend the corresponding items in the Bidding Documents.

For guidance and information of all concerned.

Signed
MOHD ASNIN K. PENDATUN
Chairperson, Special Bids and Awards Committee

ANNEX "A"

Revised Technical Specifications

INTRODUCTION

The Drawings and Specifications are complementary to each other. Drawings are graphic means of showing work to be done. They are particularly suited to showing where materials are located. Thus, drawings exist essentially to show dimension, location and placement. Not all works, however, can be presented in the drawings. Generalized works are usually statement form and hence, the contractor is required to read the specifications carefully.

Specifications, on the other hand, are used to describe the materials, construction techniques, samples, shop drawings, guarantees and other contract requirements. Together, the drawings and the specifications are used to inform the contractor. In cases where the specified brand carries with it the manufacturer's specifications, the manufacturer's specifications shall hold precedence over these specifications.

The Specifications are of the abbreviated type and include incomplete sentences. The selection of the sentence depends on the underlying principles of Specifications:

1. That the Technical Specifications are only one part of the Contract Documents.
2. That the Contract is between the Procuring Entity and the General Contractor and
3. That the General Contractor is the only party responsible for completing the work in accordance with the Contract Documents.

Therefore:

1. Only the General Contractor is referred to in the Specifications so as not to violate the intent of the contract and so as not to undermine the proper chain of command.

2. Any reference to Specialty Trade Contractors in the technical Specifications is made only in so far as selection of Specialty Trade Contractors is made through bidding. Once the Specialty Trade Contractors are selected and assigned to the General Contractor, the General Contractor assumes all the responsibilities for the execution of the whole project in accordance with the Contract Documents. Therefore, in the contract between the Owner and the General Contractor, the Specialty Trade Contractor is not referred to. In all contract Documents, the word "Contractor" means the General Contractor.

4. The omission of the phrase "The Contractor shall" is intentional because the whole Specifications is directed to the Contractor. Omitted words or phrases shall be supplied by inference in the same manner as they are when a "note" occurs on the drawings.

5. Where "as shown", "as indicated", "as detailed" or words of similar import are used, it shall be understood that reference to the drawings accompanying the Specifications is made unless otherwise stated.

6. Where “as directed“, “as required”, “as permitted”, “as authorized”, “as approved, accepted” or words of similar import as used, it shall be understood that the direction, requirements, permission, authorization, approval or acceptance of the Architect is intended unless otherwise stated.

7. As used herein, “provided” shall be understood to mean “provided complete in place,” that is, “furnished and installed”.

8. Most sentences are in the imperative mood. This style is especially suited for instructions covering installation of products and equipment.

CLARIFICATIONS

All reference to any brand, material, equipment, or systems in the Specifications, plans, and bid documents is indicative of the type and quality of what is required. However, any equal material, equipment, or system can be used.

The list of items of work provided in the scope of works does not in any way limit the responsibility of the Contractor to perform all other works necessary for the completion of the

A. GENERAL CONDITIONS DESCRIPTION OF THE PROJECT

Complete all works for the Construction of Madrasatul Hidaayah Al-Islamee at Brgy. Macaguiling, Sultan Kudarat, Maguindanao del Norte, including supply of all materials, equipment, and systems, as well as the performance of all necessary labor and processes, in accordance with the plans, specifications, the Bidding Documents, the Terms of References, and other related contract documents.

The contractor is not limited to the scope of works listed. They should verify all plans and actual conditions for the necessity of work. If the actual situation calls for demolition, removal and relocation he shall include such and all concomitant works to finish as part of the scope of work.

Any discrepancies found between the drawings and specifications and the site conditions or any errors or omission in the drawings or specification should be clarified with Engineer from the Procuring entity.

Should the contractor fail to verify or clarify discrepancies, errors, conflict or omission in the drawings and specifications, it shall be deemed that the contractor have included in the preparation of his bid the necessary works, materials or items needed to satisfy the general scope of works.

B. SCOPE OF WORKS:

Enumerated below are some of the works expected from the contractor. Therefore, the scope is not limited to what has only been written below, some works are implied and expected. The objective of the project must be met by the implementing contractor before the project may be turned over to the OCM-ISS.

1. Permits and Clearances

a. Secure and pay all permits (application and obtaining of Building Permit and all other implied permits needed, Fire Clearance, and Certificate of Occupancy), fees, licenses, taxes, tests, etc. necessary for the execution of the general construction works.

b. Prepare a monthly progress report which shall include an overall progress chart based on actual physical accomplishment of construction work and a progress chart based on actual value of accomplished construction work, among others.

c. Miscellaneous Fees (Notary, Blueprint, processing requirements, and other fees)

2. Mobilization and Temporary Facilities

a. Mobilization of all necessary personnel, labor, tools, facilities, and equipment to commence work on the project.

b. Setting up of Temporary Facilities within the site.

c. Preparation of logistics of contractor's equipment.

d. Setting up of necessary water and power lines required for the Project.

e. Provision of security and safety measures for the protection of the general public during construction work.

f. Setting up any safety measure equipment or temporary structures such as bunk houses, tarps, signs, etc.

3. Earthworks

a. *Site Clearing*. Debris, shrubs, and other unsuitable materials shall be removed.

b. *Cut and Fill*. Cut and fill shall be done to elevations where required.

c. *Stakeout*. All lines and grades as shown on the plans be established before the excavation is started. Basic batter boards and reference works shall be placed at such place where they will not be disturbed during foundation works.

d. *Excavation*. Excavation for foundations shall be made to grades as indicated on plans. Excavations shall be made deeper until the general or desired stratum for the safe bearing capacity of soil is reached.

e. *Backfill*. Works include backfilling and compaction of excavated materials.

f. *Gravel fill*. Works include filling of 50mm thick layer of gravel at column footings and footing tie beams prior to concrete pouring.

g. *Pest Control/ Soil Poisoning*. Work includes furnishing and applying termite control chemicals, including the use of equipment and tools in performing such operations in accordance with the Specification.

4. Concrete Works

a. *Concreting*. Works include concreting of column footings, footing tie beams, columns, beams, and slabs as specified in the plans and Specifications.

b. *Reinforcing Steel Bars (RSB).* Works include the provision of reinforcing bars for footings, footing tie beams, columns, beams, and slabs as specified in the plans and Specifications, all sizes of reinforcing bars shall be as specified in the plans.

c. *Formworks*. Works include the provision of formworks for all concrete works.

5. Masonry Works

a. *CHB Laying*. Work includes laying of 100mm and 150mm thick CHB, and mortar and filler, as specified in the plans and specifications.

b. *Plastering Works*. Provide plain cement finish as specified in the plans and specifications.

6. Carpentry Works

These include the supply and installation of ceiling, installation of comfort room partitions, and supply and installation of cabinets under sinks.

7. Roofing Works

a. *Roof Framing*. Supply and install trusses, fascia board, and other roof structures in accordance with plans and as herein specified.

b. *Roofing and Tinsmithry*. Supply and install roofing sheets, gutters, ridge roll, flashing, and other roof accessories in accordance with plans and as herein specified.

8. Finishing Works

a. *Tileworks.* Supply and install tiles on all rooms, stairs, ramps, and other areas, in accordance with plans and as herein specified. Apply all other materials such as tile grout for the complete and satisfactory execution of work. On stairs, supply and install stair nosing.

b. *Ceiling*. Furnish all ceiling finishes, equipped with fixing accessories in accordance with plans and/or shop drawings and as herein specified.

c. *Paints and Coatings*. Furnish all paints, enamels, varnishes, and other products to be used including labor, tools, and equipment required as shown on the plans and in accordance with these Specifications. Upon completion of the project, all paint spots from all finished works shall be removed. Clean off all glass from paint spots, smears, and blemishes.

Painting of white paint on all walls and ceilings using solvent-based paint as the final layer. At least 3 layers of paint are to be applied.
Putting of necessary materials or solutions on ceilings to beautify and to make it useful.

d. *Waterproofing*. Apply waterproofing on comfort rooms and all other areas requiring such in accordance with plans and as herein specified.

9. Plumbing and Sanitary Works

a. Supply and install complete plumbing and sanitary systems, including fixtures, fittings, appurtenances, and piping systems, among others, as specified in the plans and Specifications, including testing. The use of low-flow fixtures is recommended. Complete installation shall mean not only the major equipment and apparatus conveyed in these Specifications but all the incidental and sundry components necessary for the complete execution of the works and for the proper operation of the installation, whether these supply components are mentioned in detail in these Specifications or not.

b. Supply and furnish all materials brand new and of superior quality (preferably Bureau of Philippine Standards certified)

1. Water Closet -Flush Type

2. Lavatory - press action tap model with the timed flow and anti-blocking system

c. Tap a water line from the water source.

10. Electrical Works

a. Provide labor, materials, tools, machinery, equipment, and services necessary to complete the Electrical Work under the Contract. All systems and equipment shall be complete in every aspect and all items of material, and equipment shall be provided for a fully operational system and ready for use. Coordinate the work with the work of the other trades in order to resolve all conflicts without impeding the job progress.

b. Provide all materials, and equipment and perform all the work necessary for the complete execution of all the Electrical and Auxiliary Works as shown the Drawings and Specifications, as herein specified or both except as otherwise excluded, and which, without excluding generality of the foregoing shall include but not limited to the following principal items of work:

1. Electrical demolition for remodeling.
2. Supply and installation of electrical wiring, conduit, raceway system, including necessary hanger/supports.
3. Supply and installation of lighting fixtures/luminaries.
4. Supply and installation of complete electrical and auxiliary wiring devices.
5. Testing of all installations.
6. Painting of electrical equipment, boxes, enclosures, metal conduits, and hanger/supports.
7. Sample Approvals.

c. All materials and supplies shall be new and shall conform to the provisions of the latest editions of the following standards:

1. Underwriters Laboratories, Inc. (UL)
2. National Electrical Manufacturer's Association (NEMA)
3. Philippine Electrical Code (PEC)

d. All materials on all systems shall comply with the following specifications unless specifically exempted, and all materials that were not specified shall be of the best of their respective kind. All electrical equipment, appliances, fixtures, and devices shall be the latest of the current year in design, material, and workmanship, and shall be the type or model called for in these Specifications. Samples of any material shall be submitted for approval as required by the Engineers prior to purchase and installation.

11. Doors and Windows

a. DOORS: Provide and install all doors with complete locksets, hinges and accessories. See Schedule of Doors.

b. WINDOWS: Provide and install all windows with complete locksets, hinges and accessories. See Schedule of Windows.

12. Demobilization

a. Demobilize, dismantle, and remove all temporary facilities, including all workmen's houses, construction equipment, tools, personnel, and debris out of the project site and premise

b. Cleaning of the building and site to a spic and span state, ready for use.

c. Restoration of all possible damaged facilities during the renovation phase.

13. Post Construction Works Including Testing & Commissioning.

These include the testing of all electrical, plumbing/sanitary systems, and other systems that have been installed to provide the end-users with a high level of assurance that all equipment and machinery are installed in a prescribed manner.

C. OTHERS

- The Contractor must have a Project Engineer who will supervise the project onsite. The Contractor shall inform SDF-PMO in case of replacement/changes of personnel assigned at the project site. The replacement must have relevant qualifications and abilities equal to or better than those of the personnel as evidenced by his/her training certification to be submitted to SDF-PMO.

- Demolitions and repairs due to the Contractor's fault shall be done by the Contractor without extra compensation to the Owner.

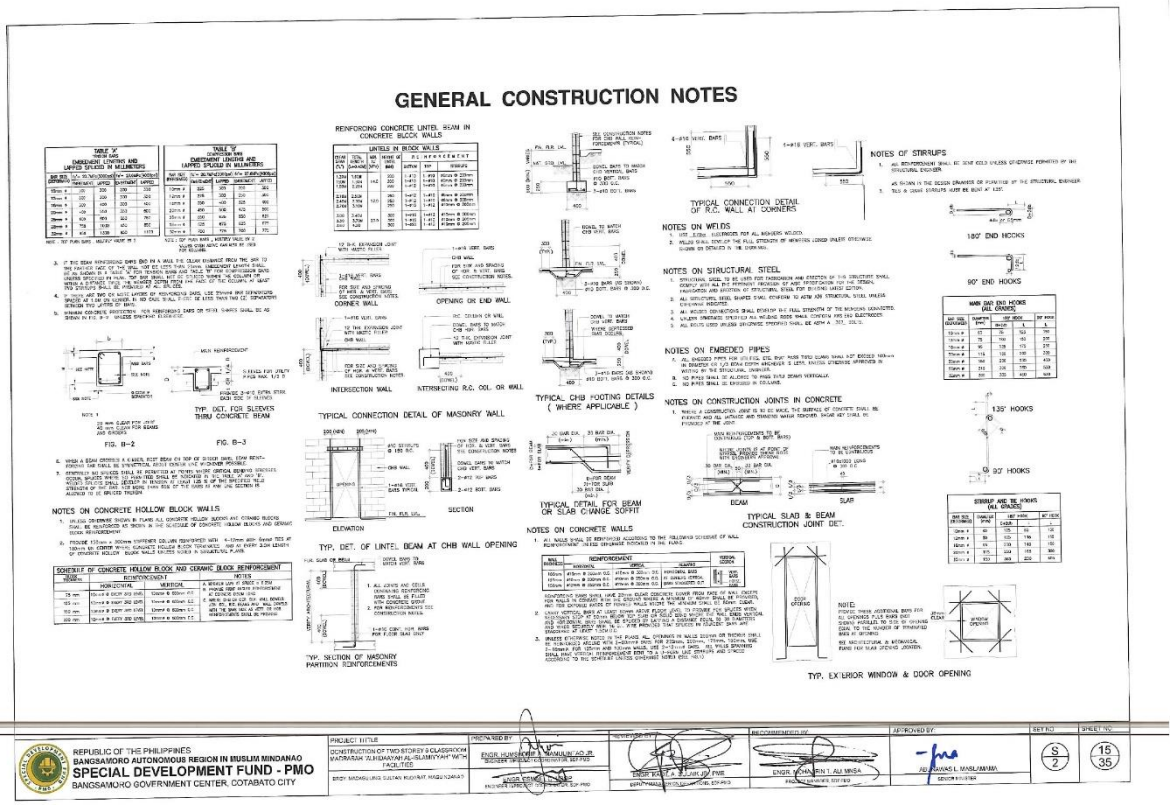
- As soon as the project is satisfactorily inspected and it conforms to the plans and specifications, the contractor shall submit to the procuring entity a written notice that said project is completed and is subject to the latter's approval.

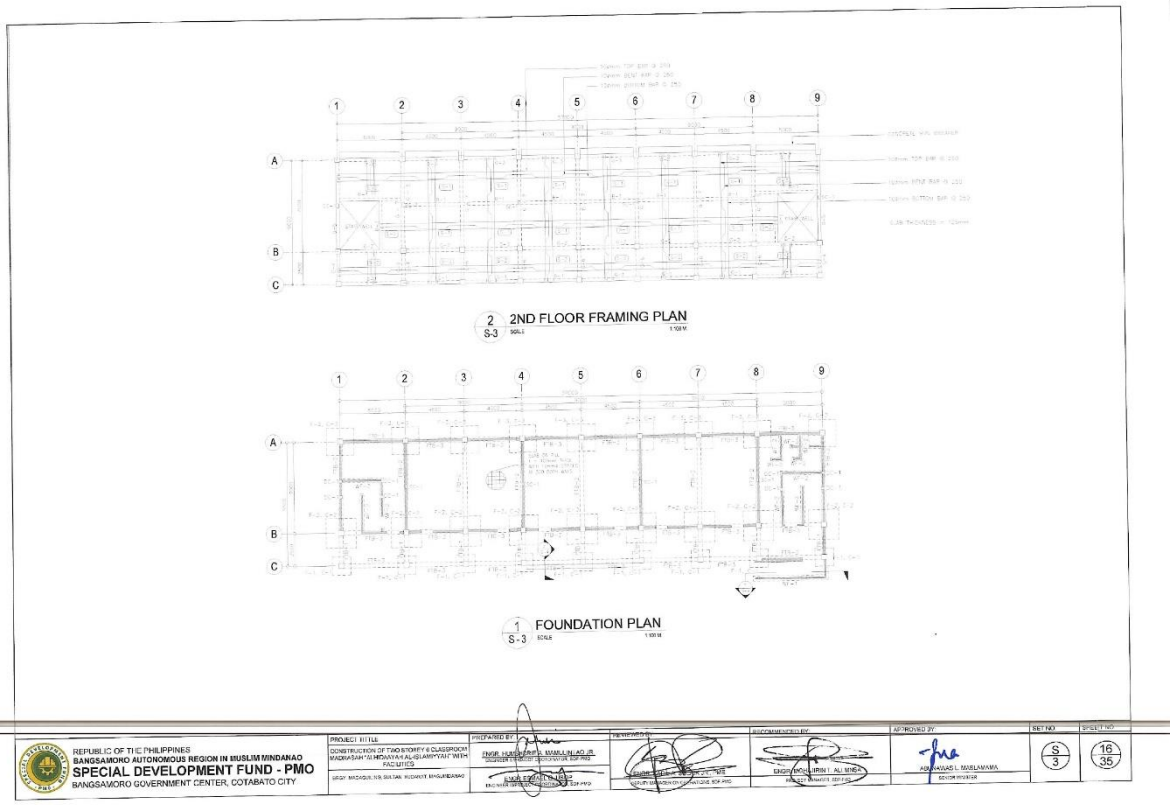
- Five copies of As-Built Plan must be submitted not later than 7 days after project completion.

D. SPECIFICATIONS

All drawings, small scale, and detail drawings are intended to collaborate with the specifications and to form part thereof, where figures are given, they are to be followed in preference to measurement by scale. Anything shown in the drawings and not mentioned in the specifications or vice-versa or anything not expressly outlined in either, but which is reasonably implied shall be furnished and installed as thought specifically shown in mentioned both.

Annex “B”


GENERAL CONSTRUCTION NOTES
REPUBLIC OF THE PHILIPPINES
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO
SPECIAL DEVELOPMENT FUND - PMO
BANGSAMORO GOVERNMENT CENTER, COTABATO CITY
PROJECT TITLE
CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH ‘ULIMDAAYAH AL-ISLAMIYYAH WITH FACILITIES
PREPARED BY
REVIEWED BY
RECOMMENDED BY
APPROVED BY
ASHAWAS L. MASLAMAMA
SET NO
S 2
SHEET NO
15 35


2 2ND FLOOR FRAMING PLAN
S-3
1 FOUNDATION PLAN
S-3
REPUBLIC OF THE PHILIPPINES
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO
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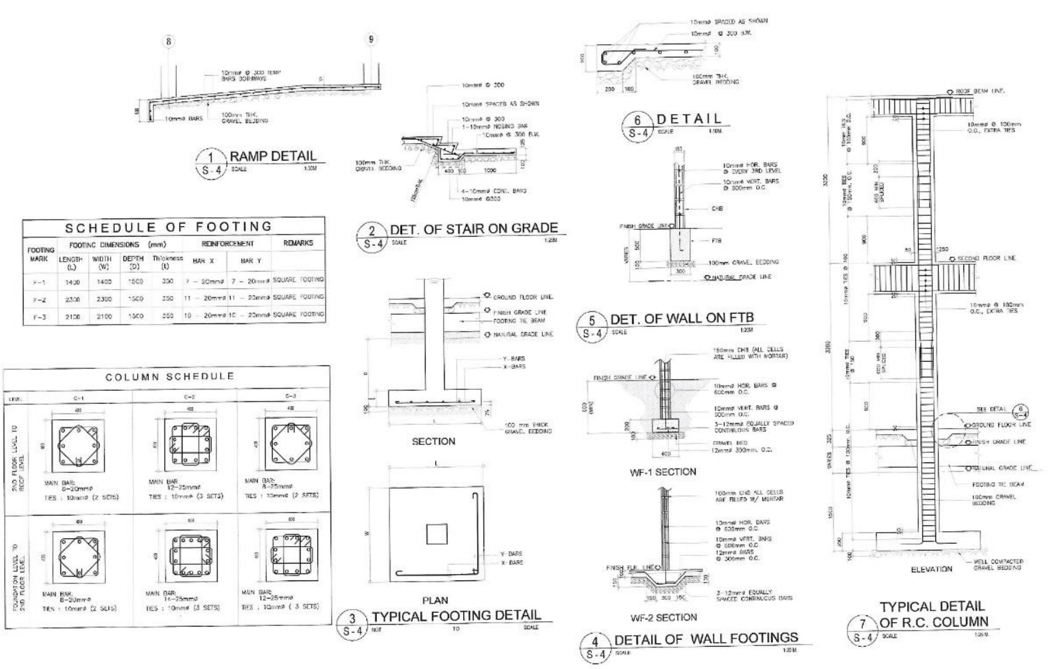
S 3
SHEET NO
16 35



SCHEDULE OF FOOTING

FOOTING MARK	FOOTING DIMENSIONS (mm)				REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (D)	Thickness (t)	BAR X	BAR Y	
F-1	1400	1400	1500	350	7 - 20mmø	7 - 20mmø	SQUARE FOOTING
F-2	2300	2300	1500	350	11 - 20mmø	11 - 20mmø	SQUARE FOOTING
F-3	2100	2100	1500	350	10 - 20mmø	10 - 20mmø	SQUARE FOOTING

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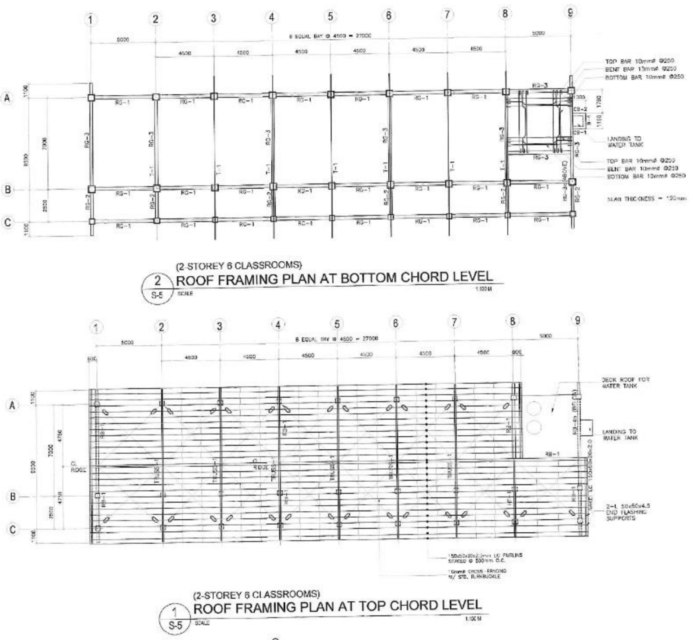
PROJECT TITLE	PREPARED BY:	REVIEWED BY	RECOMMENDED BY	APPROVED BY	SET NO.	SHEET NO.
CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH "ALHIDAAYAH AL-ISLAMIYYAH" WITH FACILITIES BRGY. MACAGUILING, SULTAN KUDARAT, MAGUINDANAO	ENGR. HUMSHORE A. MAMLLINTAO JR. ENGR. ESMAEL C. USOP	ENGR. [illegible] SULAIK, PME DEPUTY MANAGER ON OPERATIONS, SDF-PMO	ENGR. MOHAJIRIN T. ALI, MNSA PROJECT MANAGER, SDF-PMO	ABUNAWAS L. MASLAMAMA SENIOR MINISTER	S-4	17/35



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PROJECT TITLE	PREPARED BY:	REVIEWED BY	RECOMMENDED BY	APPROVED BY	SET NO.	SHEET NO.
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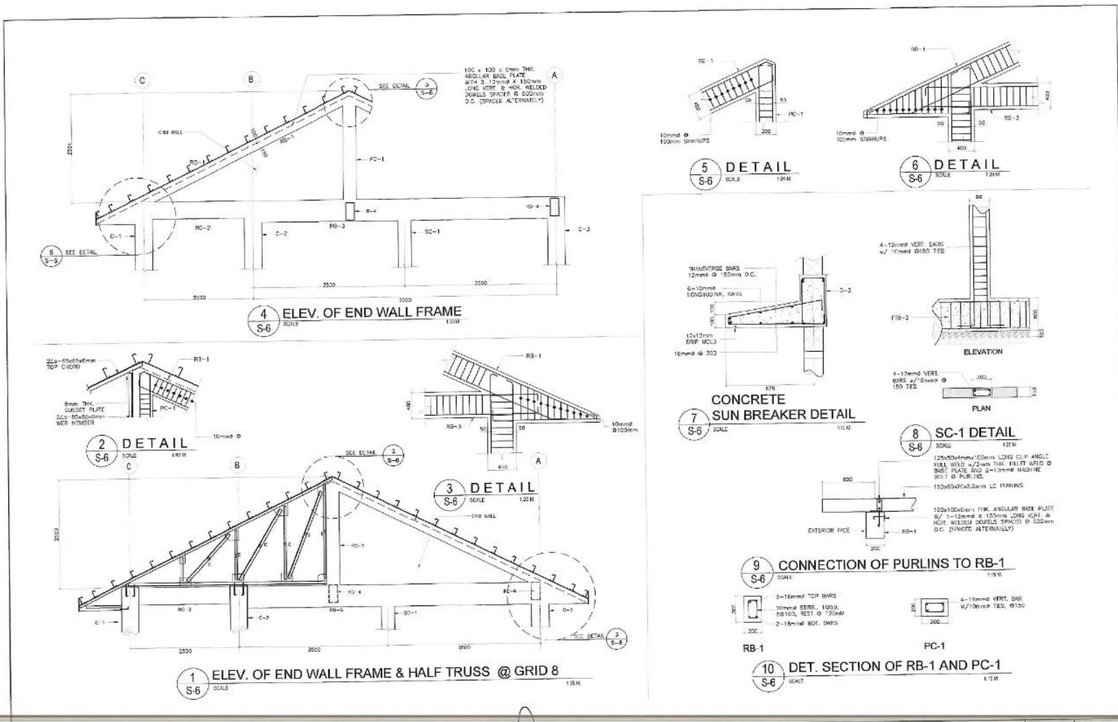


REPUBLIC OF THE PHILIPPINES
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO
SPECIAL DEVELOPMENT FUND - PMO
BANGSAMORO GOVERNMENT CENTER, COTABATO CITY

PROJECT TITLE: CONSTRUCTION OF TWO STOREY 5 CLASSROOM MADRASAH "ALH DAAYAH AL-ISLAMIYYAH" WITH FACILITIES

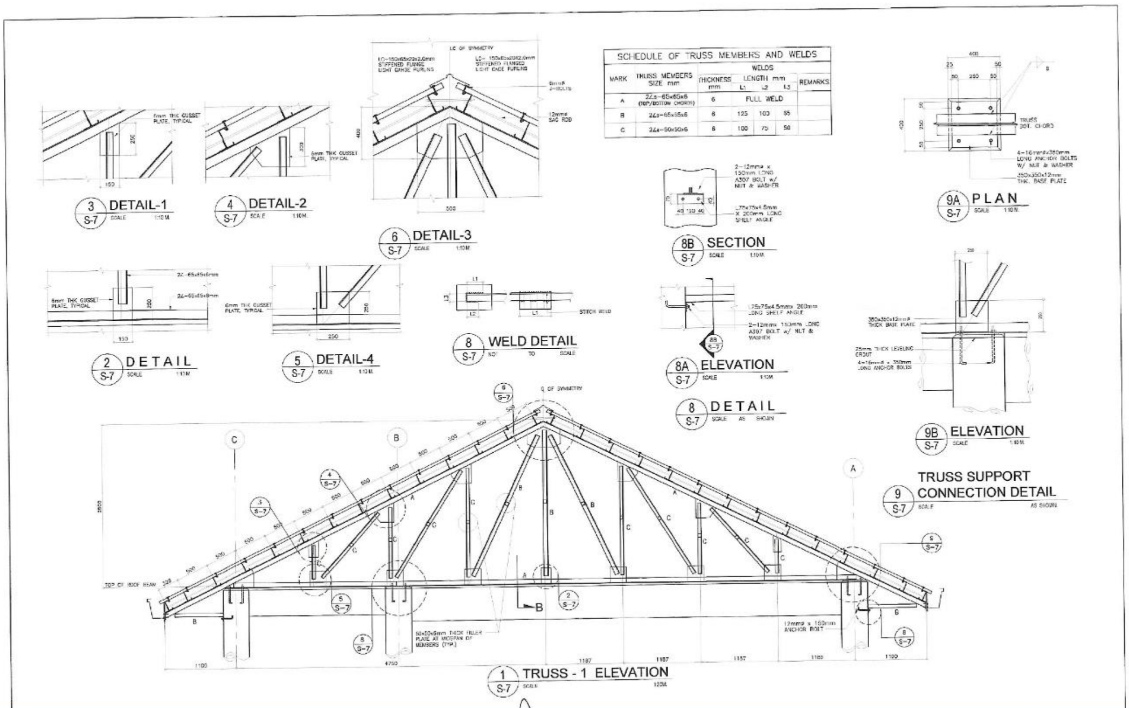
PREPARED BY: ENGR. HUMSHORIE A. MAMULINTAO JR.; ENGR. ISMAEL P. ILISOP

REVIEWED BY: DEPUTY MANAGER ON OPERATIONS, SDF-PMO

RECOMMENDED BY: ENGR. MOHAJIRIN T. ALI, MNSA, PROJECT MANAGER, SDF-PMO

APPROVED BY: ABUNAWAS L. MASLAMAMA, SENIOR MINISTER

SET NO. S-6 | SHEET NO. 19/35



SCHEDULE OF TRUSS MEMBERS AND WELDS

MARK	TRUSS MEMBERS SIZE mm	WELDS THICKNESS mm	LENGTH mm L1	L2	L3	REMARKS
A	2∠s-65x65x6 (TOP/BOTTOM CHORDS)	6	FULL WELD			
B	2∠s-65x65x6	6	125	100	65	
C	2∠s-50x50x6	6	100	75	50	

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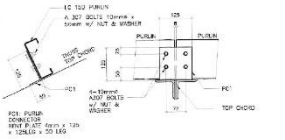
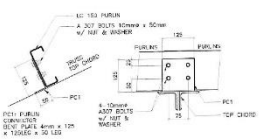
RECOMMENDED BY: ENGR. MOHAJIRIN T. ALI, MNSA, PROJECT MANAGER, SDF-PMO

APPROVED BY: ABUNAWAS L. MASLAMAMA, SENIOR MINISTER

SET NO. S-7 | SHEET NO. 20/35



4A S-8 FOR NON - CONTINUOUS PURLINS



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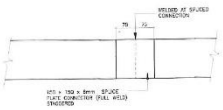
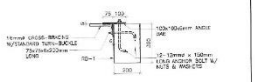
4 S-8 PURLIN CONNECTION DETAIL



5 S-8 PURLIN SPLICE



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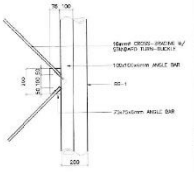
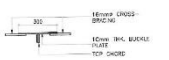
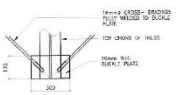


1A S-8 PLAN

1 S-8 DETAIL CONN. OF CROSS-BRACING AT END WALL



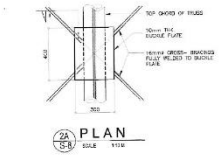
1B S-8 SECTION



1A S-8 PLAN

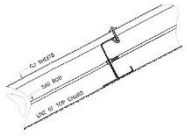
1 S-8 DETAIL CONN. OF CROSS-BRACING AT GRID LINE A & C

2B S-8 SECTION

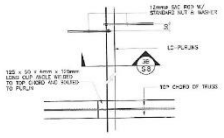


2A S-8 PLAN

2 S-8 DETAIL CONN. OF CROSS-BRACING AT TRUSS @ APEX



3B S-8 SECTION



3A S-8 PLAN

3 S-8 DETAIL OF PURLIN TO SAG ROD CONNECTION

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PROJECT TITLE: CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH / ALMEHAYAH AL-ISLAMIYYAH WITH FACILITIES

PREPARED BY: ENGR. HUSSEIN C. A. MANUNTAC JR.

REVIEWED BY: ENGR. ALI S. SUMAIL JR., PME

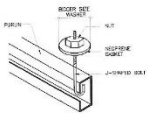
RECOMMENDING BY: ENGR. MOHAMMAD T. ALI MINDA

APPROVED BY: ABUKAKWAS L. MABLAMAMA

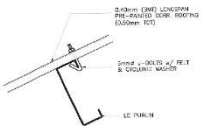
SHEET NO.: S 8

SHEET NO.: 21 35

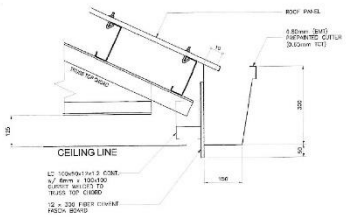
2 S-9 ANCHOR BOLT DETAIL



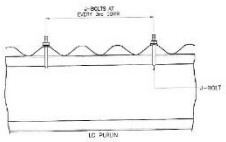
5 S-9 ROOFING FIXER



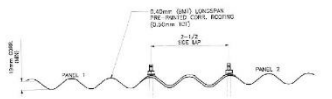
6 S-9 J-BOLT TO PURLIN & G.I SHEET CONNECTION DETAIL



1 S-9 TRUSS DETAIL AT GUTTER END



4 S-9 J-BOLT SPACING



3 S-9 ROOF PANEL SIDE LAP DETAIL

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REVIEWED BY: ENGR. ALI S. SUMAIL JR., PME

RECOMMENDING BY: ENGR. MOHAMMAD T. ALI MINDA

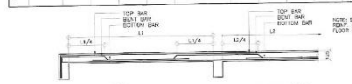
APPROVED BY: ABUKAKWAS L. MABLAMAMA

SHEET NO.: S 9

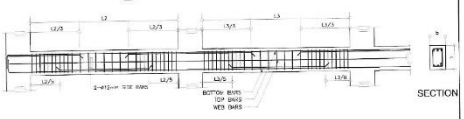
SHEET NO.: 22 35

BEAM SCHEDULE

FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm²) b	h	STEEL REINFORCEMENTS REBAR (mm Ø)	LEFT TOP	LEFT BOTTOM	M/C SPAN TOP	M/C SPAN BOTTOM	RIGHT TOP	RIGHT BOTTOM	10mmØ WEB BAR	STIRRUPS 10mm (SEE FIG. NOTED DIMENSION)
2ND FLOOR LEVEL	G-1	250	600	Ø25mm	3	2	2	3	3	2		10@0.50M, RESTØ175
	G-2	250	600	Ø25mm	4	2	2	3	4	2		10@0.50M, RESTØ175
	G-3	250	600	Ø25mm	4	3	2	3	4	2		10@0.50M, RESTØ175
	G-4	250	600	Ø25mm	3	3	2	3	4	3		10@0.50M, RESTØ175
	G-5	250	600	Ø25mm	3	3	2	3	5	3		10@0.50M, RESTØ175
	G-6	250	600	Ø25mm	5	3	2	3	5	3	2	10@0.50M, RESTØ175
	G-7	250	600	Ø25mm	5	3	2	3	6	3	2	10@0.50M, RESTØ175
	E-1	250	600	Ø16mm	4	2	2	4	4	3		10@0.50M, RESTØ175
	E-2	250	600	Ø16mm	2	2	2	4	2	2		10@0.50M, RESTØ175
	CB-1	250	600	Ø25mm	4	2	2	4	4	2		10@0.50M, RESTØ175
ROOF LEVEL	SB-1	200	400	Ø20mm	2	2	2	2	2	2		10@0.50M, RESTØ200
	SB-2	200	400	Ø20mm	2	2	2	2	3	2		10@0.50M, RESTØ200
EXISTING RC BEAM	SB-3	200	500	Ø20mm	3	2	2	3	3	2		10@0.50M, RESTØ200
	FB-1	200	500	Ø20mm	3	2	2	3	4	3	2	10@0.50M, RESTØ200
	FB-2	200	500	Ø20mm	4	3	2	3	4	3	2	10@0.50M, RESTØ200
	FB-3	200	500	Ø20mm	3	3	2	3	3	3	2	10@0.50M, RESTØ200
BEAM BEAM	SB-1	200	400	Ø16mm	3	2	2	4	3	2		10@0.50M, RESTØ175
	SB-2	200	400	Ø16mm	4	2	2	4	4	2	2	10@0.50M, RESTØ200



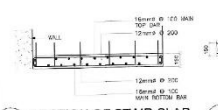
2 S-10 TYPICAL SLAB ELEVATION



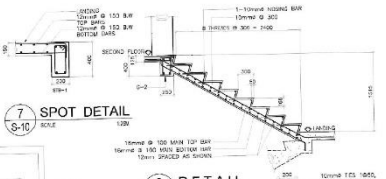
ELEVATION

SECTION

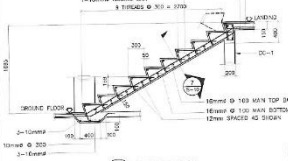
1 S-10 TYPICAL BEAM DETAILS



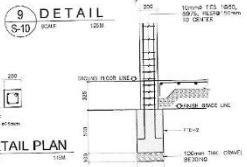
6 S-10 SECTION OF STAIR SLAB



7 S-10 SPOT DETAIL



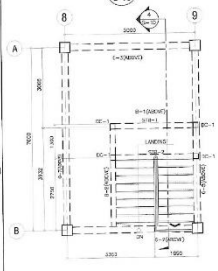
5 S-10 DETAIL



9 S-10 DETAIL

8A S-10 DETAIL PLAN

8B S-10 DETAIL SECTION



3 S-10 STAIR FRAMING PLAN

4 S-10 STAIR SECTION DETAIL

8 S-10 DETAIL, DC-1

REPUBLIC OF THE PHILIPPINES
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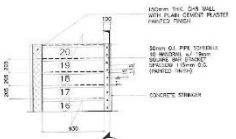
REVIEWED BY:

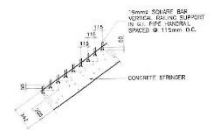
RECOMMENDED BY: ENGR. MOHAMMAD I. ALI BINSA

APPROVED BY: ABUNAWAS L. MASLAMAMA

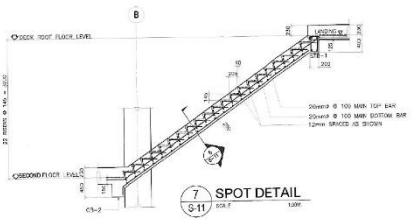
SHT. NO. S 10 | SHEET NO. 23 35



3 S-11 SPOT DETAIL



4 S-11 DETAIL SECTION



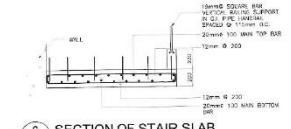
7 S-11 SPOT DETAIL

1A S-11 PLAN

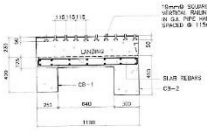
2 S-11 SPOT DETAIL

1B S-11 ELEVATION

1 S-11 STAIR FROM SECOND FLOOR TO DECK ROOF



6 S-11 SECTION OF STAIR SLAB



5 S-11 SPOT DETAIL

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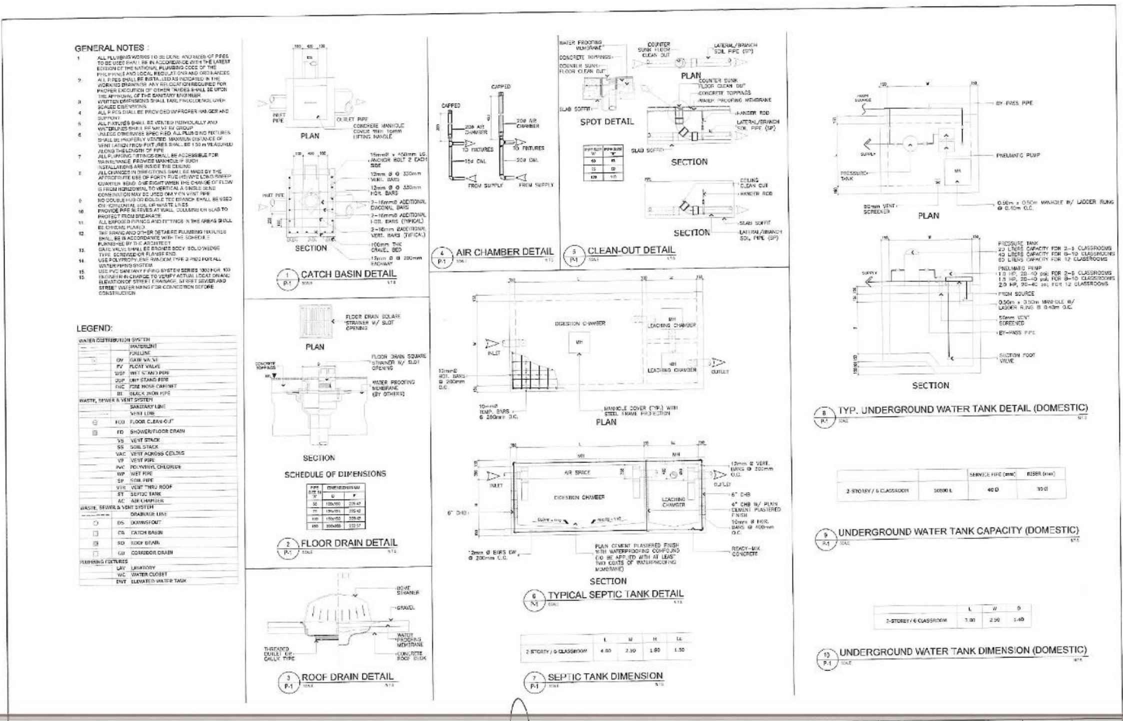
APPROVED BY: ABUNAWAS L. MASLAMAMA

SHT. NO. S 11 | SHEET NO. 24 35



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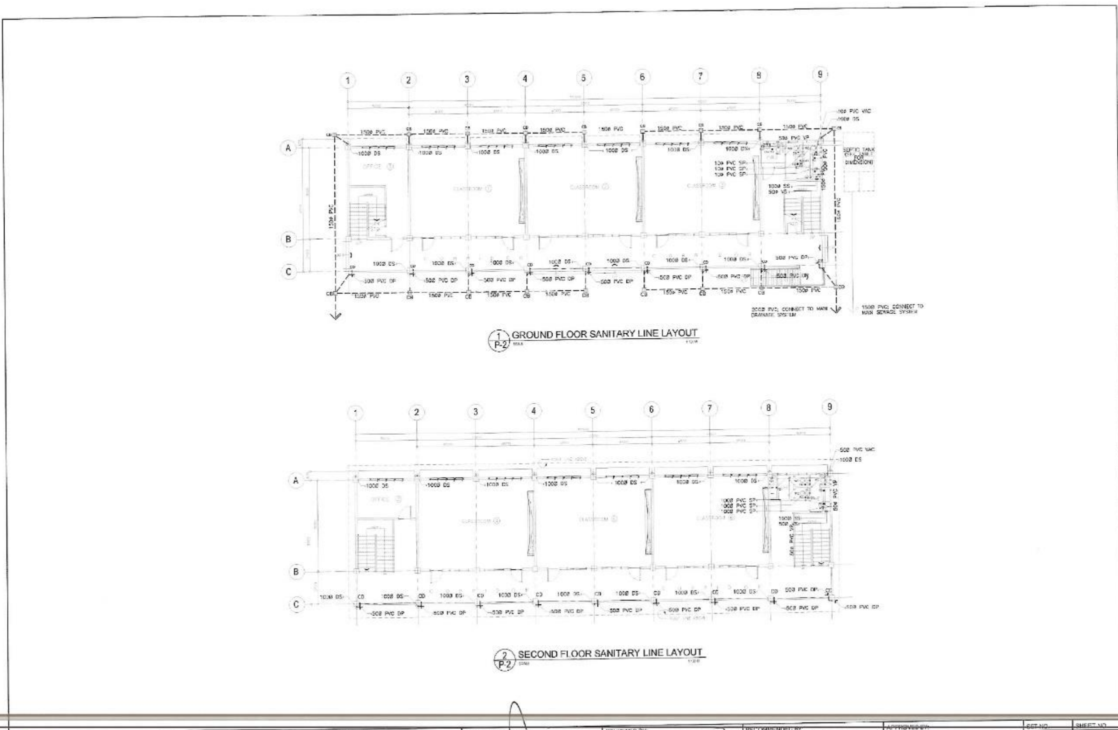
PROJECT TITTLE	PREPARED BY:	REVIEWED BY	RECOMMENDED BY:	APPROVED BY:	SET NO.	SHEET NO.
CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH "ALHIDAAYAH AL-ISLAMIYYAH" WITH FACILITIES	ENGR. HUNSLORIE A. MAMULINTAO JR. ENGR. BERAEL C. USOP	ENGR. KARIM A. ... PME DEPUTY MANAGER ON OPERATIONS, SDF-PMO	ENGR. MOHAJIRIN T. ALI, MNSA PROJECT MANAGER, SDF-PMO	ABUNAWAS L. MASLAMAMA SENIOR MINISTER	P 1	25/35



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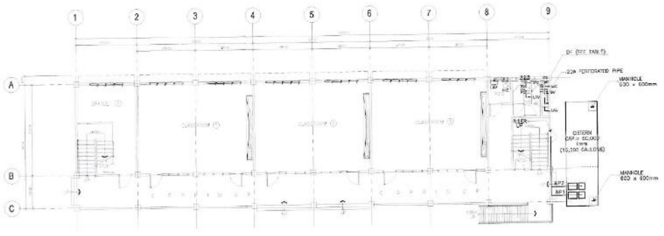
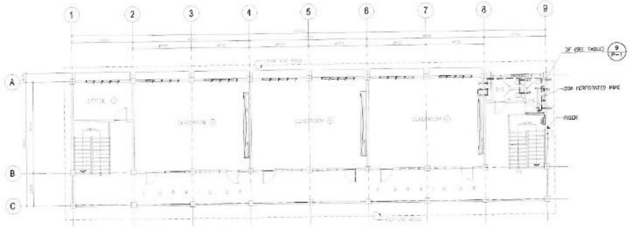


1/P-3 GROUND FLOOR WATERLINE LAYOUT



2/P-3 SECOND FLOOR WATERLINE LAYOUT

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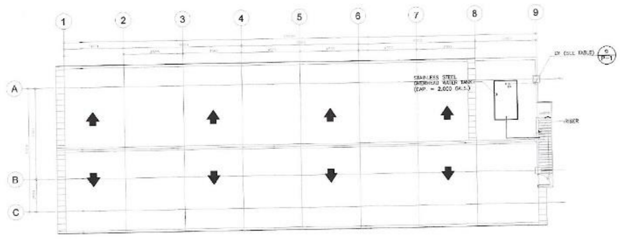
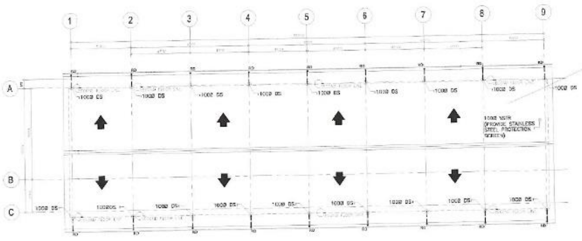
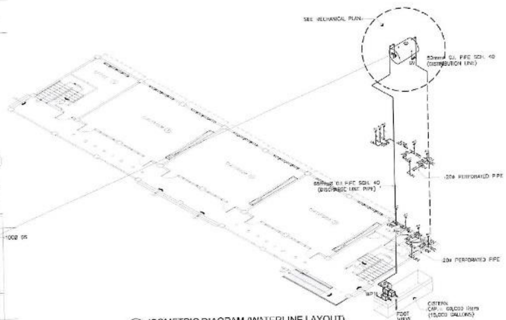
CONSTRUCTION OF TWO STOREY 5 CLASSROOM MADRASAH "ALHIDAAYAH AL-ISLAMIYYAH" WITH FACILITIES BRGY. MACAGUILING, SULTAN KUDARAT, MAGUINDANAO	ENGR. HUMSHORE A. MAMULINTAO JR. ENGINEER II/PROJECT COORDINATOR, SDF-PMO ENGR. ESMAEL ... USOP ENGINEER II/PROJECT COORDINATOR, SDF-PMO	ENGR. ... A. SULAIK JR., PME DEPUTY MANAGER ON OPERATIONS, SDF-PMO	ENGR. MOHAJIRIN T. ALI, MNSA PROJECT MANAGER, SDF-PMO	ABUNAWAS L. MASLAMAMA SENIOR MINISTER	P/3	27/35



2/P-4 ROOF PLAN (WATER LINE LAYOUT)



1/P-4 ROOF STORM DRAINAGE LAYOUT



2/P-4 ISOMETRIC DIAGRAM (WATERLINE LAYOUT)

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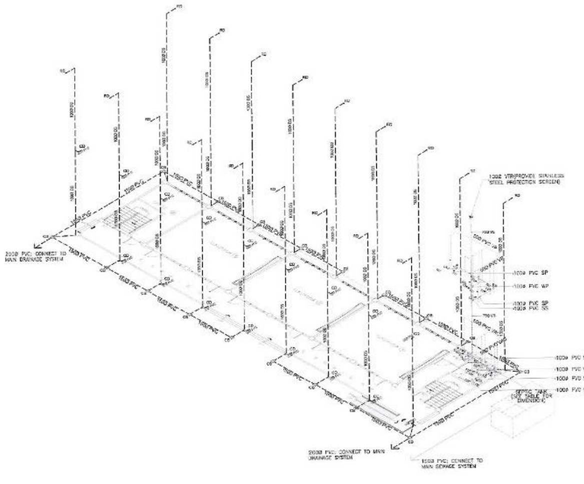


1/P-5 ISOMETRIC DIAGRAM (SEWER & DRAINAGE LAYOUT)

REPUBLIC OF THE PHILIPPINES BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO **SPECIAL DEVELOPMENT FUND - PMO** BANGSAMORO GOVERNMENT CENTER, COTABATO CITY	PROJECT TITTLE CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH "ALHIDAAYAH AL-ISLAMIYYAH" WITH FACILITIES BRGY. MACAGUILING, SULTAN KUDARAT, MAGUINDANAO	PREPARED BY: ENGR. HUMSIDRIE A. MAMULINTAD JR. ENGINEER II/PROJECT COORDINATOR, SDF-PMO ENGR. ESMAEL D. USOP ENGINEER II/PROJECT COORDINATOR, SDF-PMO	REVIEWED BY: ENGR. KADRA SUDAIK JR. PME DEPUTY MANAGER ON OPERATIONS, SDF-PMO	RECOMMENDED BY: ENGR. MOHAJIRIN T. ALI, MNSA PROJECT MANAGER, SDF-PMO	APPROVED BY: ABUNAWAS L. MAGLAMAMA SENIOR MINISTER	SET NO. P/5 SHEET NO. 29/35

PANELBOARD MDP FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT NO	LOAD DESCRIPTION	VA LOAD	CIRCUIT BREAKER VOLT	POLE	AT	AF	KAIC	WIRE & CONDUIT SIZE
1	LPA	[illegible]	230	2	50	50	10	2-8.0mm² THHN WIRE + 1-5.5mm² TW(G) WIRE in 32mmø PVC
2	LPB	[illegible]	230	2	40	50	10	2-5.5mm² THHN WIRE + 1-5.5mm² TW(G) WIRE in 25mmø PVC
3	SPARE	3815	230	2	40	50	10	———
4	WATER PUMP 2HP	2790	230	2	30	50	10	2-5.5mm² THHN WIRE + 1-5.5mm² TW(G) WIRE in 25mmø PVC
	TOTAL	[illegible]	MAIN = 100AT/100AF,2P,240V,18KAIC					

TOTAL CONNECTED LOADS: [illegible] VA

$I_T = \left[\frac{[illegible]}{230} + 25\% ([illegible])\right]$

= [illegible] + 4.[illegible]

I_T = [illegible] A

use @ 80% df = [illegible] A

I_{CB} = [illegible] A = [illegible] A

USE: [illegible]AT, [illegible]AF, 2P, 240V 60Hz, 18 KAIC

Feeder = [illegible] A X 1.25 = [illegible] A

USE: 2-38mm² THHN + 1-8mm² TW(G) IN 40mmø RSC (108.71A/130A)

PANELBOARD LPA FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT NO	LOAD DESCRIPTION	VA LOAD	CIRCUIT BREAKER VOLT	POLE	AT	AF	KAIC	WIRE & CONDUIT SIZE
1	LIGHT OUTLETS 12-2/36W, FLF	1080	230	2	15	50	10	2-3.5mm² THHN WIRE STRANDED, 1-3.5mm² TW(G) WIRE STRANDED 20mmø PVC
2	LIGHT OUTLETS [illegible]-2/36W, FLF LIGHT OUTLETS [illegible]-1/36W, FLF LIGHT OUTLETS [illegible]-18W, CFL	[illegible]	230	2	15	50	10	2-3.5mm² THHN WIRE STRANDED, 1-3.5mm² TW(G) WIRE STRANDED 20mmø PVC
3	WALL FAN OUTLETS (8 X 75W)	562	230	2	20	50	10	2-3.5mm² THHN WIRE STRANDED, 1-3.5mm² TW(G) WIRE STRANDED 20mmø PVC
4	CONVENIENCE OUTLETS ([illegible] x 180VA)	[illegible]	230	2	20	50	10	2-3.5mm² THHN WIRE STRANDED, 1-3.5mm² TW(G) WIRE STRANDED 20mmø PVC
5	FACP	800	230	2	20	50	10	2-3.5mm² THHN WIRE STRANDED, 1-3.5mm² TW(G) WIRE STRANDED 20mmø PVC
6	SPARE	1040	230	2	30	50	10	2-5.5mm² THHN WIRE STRANDED, 1-5.5mm² TW(G) WIRE STRANDED 25mmø PVC
7	SPARE	1000	230	2	20	50	10	———
8	SPARE	1000	230	2	50	50	10	———
	TOTAL	[illegible]	MAIN LUGS ONLY 50AMPS, 2P, 240V, 10KAIC					

TOTAL CONNECTED LOADS: [illegible] VA

I_L @ 85% DF

$I_L = 0.85\left(\frac{[illegible]}{230}\right) + .25 (8)$ = [illegible] AMPERES

USE: 2-8.0mm² THHN + 1-5.5mm² TW(G) WIRE IN 32mmø PVC (55A/32.40A)

PANELBOARD LPB FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT NO	LOAD DESCRIPTION	VA LOAD	CIRCUIT BREAKER VOLT	POLE	AT	AF	KAIC	WIRE & CONDUIT SIZE
1	LIGHT OUTLETS 12-2/36W, FLF	1080	230	2	15	50	10	2-3.5mm² THHN WIRE STRANDED, 1-3.5mm² TW(G) WIRE STRANDED 20mmø PVC
2	LIGHT OUTLETS [illegible]-2/36W, FLF LIGHT OUTLETS [illegible]-1/36W, FLF LIGHT OUTLETS 4-18W, CFL	[illegible]	230	2	15	50	10	2-3.5mm² THHN WIRE STRANDED, 1-3.5mm² TW(G) WIRE STRANDED 20mmø PVC
3	WALL FAN OUTLETS (8 X 75W)	562	230	2	20	50	10	2-3.5mm² THHN WIRE STRANDED, 1-3.5mm² TW(G) WIRE STRANDED 20mmø PVC
4	CONVENIENCE OUTLETS ([illegible] x 180VA)	[illegible]	230	2	20	50	10	2-3.5mm² THHN WIRE STRANDED, 1-3.5mm² TW(G) WIRE STRANDED 20mmø PVC
5	SPARE	1000	230	2	30	50	10	———
6	SPARE	900	230	2	20	50	10	———
	TOTAL	[illegible]	MAIN = 40AT/50AF,2P,240V,10KAIC					

TOTAL CONNECTED LOADS: [illegible] VA

I_L @ 80% DF

$I_L = \frac{[illegible]}{230} (0.80)$ = [illegible] AMPERES

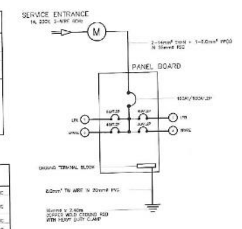
USE: 2-5.5mm² THHN + 1-5.5mm² TW(G) WIRE in 25mmø PVC (40A/30.55A)

RECOMMENDED SIZE OF TRANSFORMER

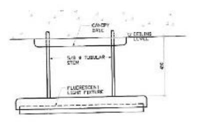
CONNECTED LOAD = [illegible] VA = [illegible] kVA

kVA @ 1.2 DIV. FACTOR = $\frac{[illegible]\ kVA}{1.2}$ = [illegible] kVA

USE: 1-15kVA, 1P, 13.8 kV (7.96kV)(PY) / 230V(SEC) OISC, POLE MOUNTED DISTRIBUTION TRANSFORMER



2/E-1 PANEL BOARD DIAGRAM NOT TO SCALE



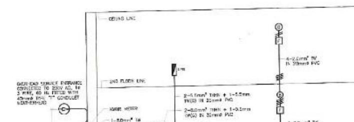
3/E-1 FLUORESCENT LIGHT FIXTURE MOUNTING DETAIL NOT TO SCALE

GENERAL NOTES :

1. ALL ELECTRICAL WORKS SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. THE ELECTRICAL SERVICE POWER SHALL BE 1-PHASE, 3-WIRE,230V AC, 60Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS: RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED IN THE PLAN.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUNS SHALL BE 3.5mm² AND INSULATED FOR 600VOLTS. LIKE WISE, ALL CONDUCTORS SHALL BE COLOR-CODED. SMALLEST RACEWAY SHALL BE 15mm2. (NOMINAL)
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED FOR THE PARTICULAR LOCATION AND USAGE.
7. EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
   a. LIGHT SWITCH – 1.20M ABOVE FINISH FLOOR
   b. CONVENIENCE OUTLET – 0.3M ABOVE FINISH FLOOR
9. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

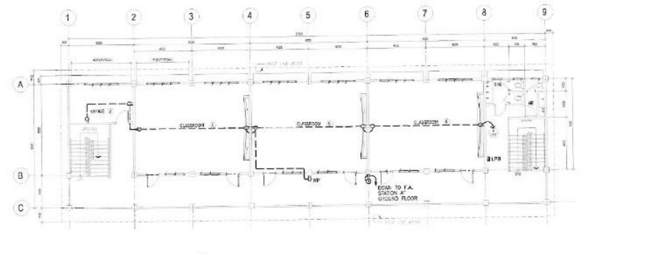
LEGEND

SYMBOL	DESCRIPTION
◇	1-18 WATTS COMPACT FLOURESCENT LAMP WITH MEDIUM BASE, KEYLESS TYPE PORCELAIN RECEPTACLE
	1 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
	2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE WITH CANOPY BASE AND STEM 1.5 FT. (450mm) LENGTH SIMILAR TO AVDO AP-1113-1.5 OR APPROVED EQUAL
	2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
WF	WALL FAN OUTLET
S	SINGLE POLE WALL SWITCH
S2	DUPLEX SWITCH, 2 SINGLE POLE SWITCHES ON ONE SWITCH PLATE
S3W	THREE WAY WALL SWITCH
2S3W	2 THREE WAY WALL SWITCHES ON ONE SWITCH PLATE
Sfc	FAN CONTROL SWITCH
———	RACEWAY CONDUIT CONCEALED IN CEILING
- - - -	RACEWAY CONDUIT CONCEALED UNDER FLOOR
	PANELBOARD, MARKED AS "LP"
	CKT. BREAKER, RATING AS INDICATED
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 15 AMPS, 240 VOLT
WP	WEATHERPROOF DUPLEX CONVENIENCE OUTLET,GROUNDING TYPE,15 AMPS, 240 VOLT
LP/1	CIRCUIT HOMERUN
	ENCLOSED AIR CIRCUIT BREAKER
	FIRE ALARM CONTROL PANEL
	FIRE ALARM STATION OUTLET
	FIRE ALARM BELL
M	SERVICE METER
	SERVICE ENTRANCE
MDP	MAIN DISTRIBUTION PANELBOARD

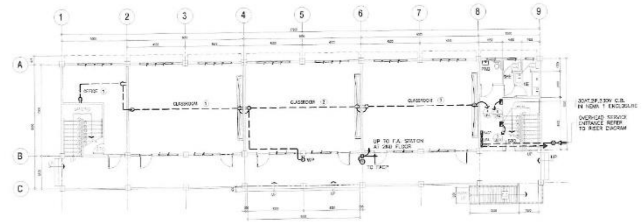


1/E-1 ELECTRICAL RISER DIAGRAM NOT TO SCALE

REPUBLIC OF THE PHILIPPINES BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO **SPECIAL DEVELOPMENT FUND - PMO** BANGSAMORO GOVERNMENT CENTER, COTABATO CITY	PROJECT TITTLE CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH "ALHIDAAYAH AL-ISLAMIYYAH" WITH FACILITIES BRGY. MACAGUILING, SULTAN KUDARAT, MAGUINDANAO	PREPARED BY: ENGR. HUMSIDRIE A. MAMULINTAD JR. ENGINEER II/PROJECT COORDINATOR, SDF-PMO ENGR. ESMAEL D. USOP ENGINEER II/PROJECT COORDINATOR, SDF-PMO	REVIEWED BY: ENGR. KADRA SUDAIK JR. PME DEPUTY MANAGER ON OPERATIONS, SDF-PMO	RECOMMENDED BY: ENGR. MOHAJIRIN T. ALI, MNSA PROJECT MANAGER, SDF-PMO	APPROVED BY: ABUNAWAS L. MAGLAMAMA SENIOR MINISTER	SET NO. E/1 SHEET NO. 30/35



2 / E-2 SECOND FLOOR POWER LAYOUT
SCALE 1:100M



1 / E-2 GROUND FLOOR POWER LAYOUT
SCALE 1:100M

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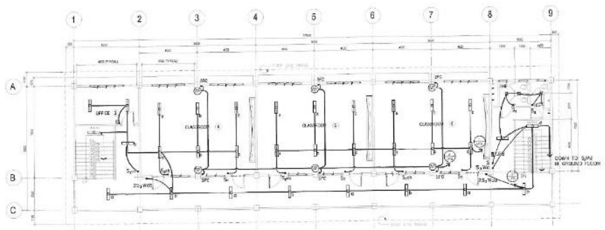
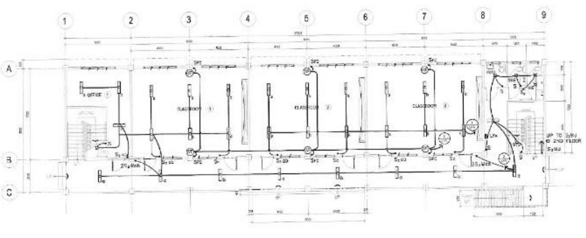


2 / E-3 SECOND FLOOR LIGHTING LAYOUT
SCALE 1:100M



1 / E-3 GROUND FLOOR LIGHTING LAYOUT
SCALE 1:100M

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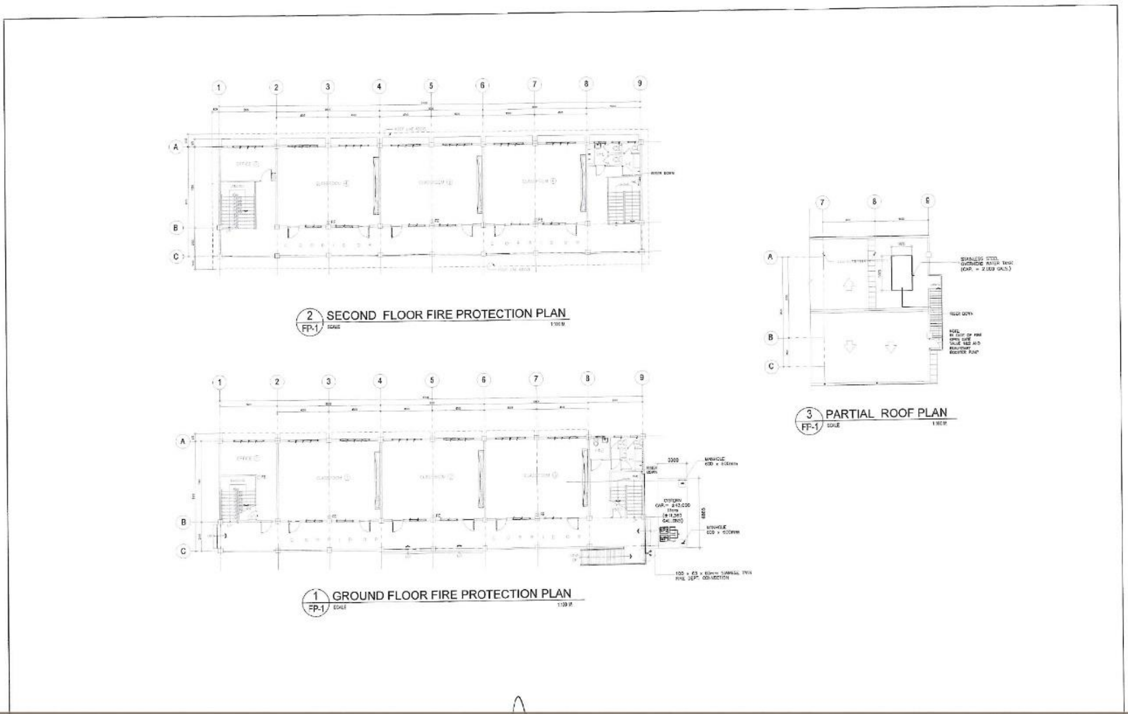

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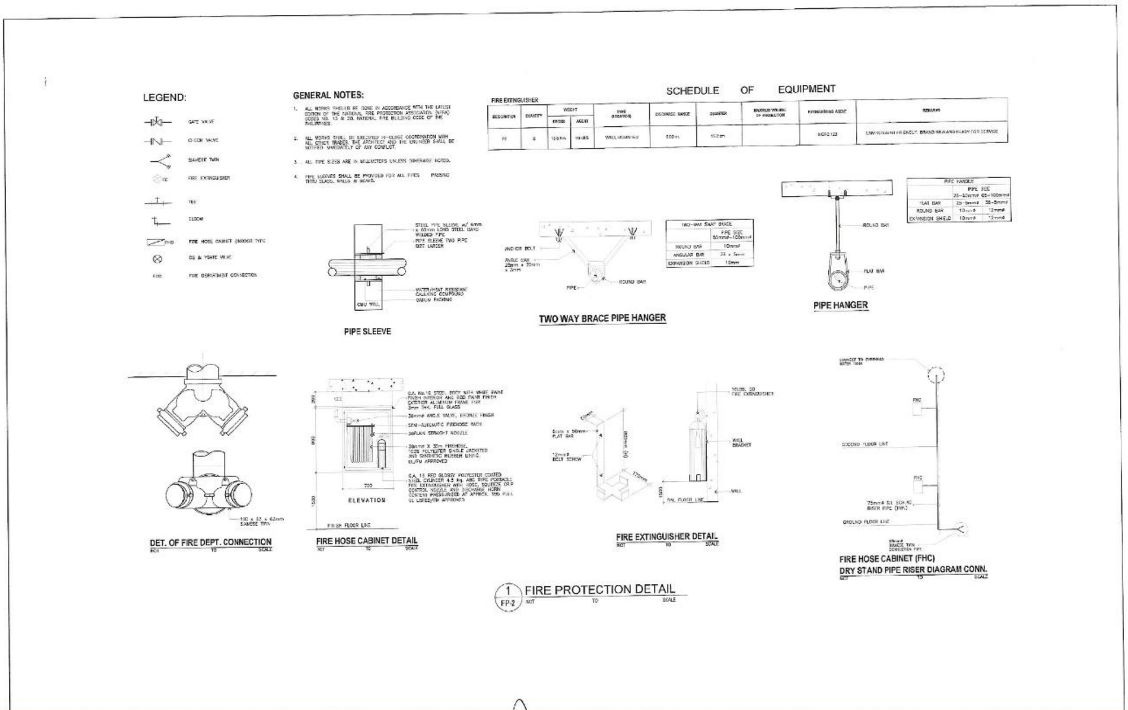

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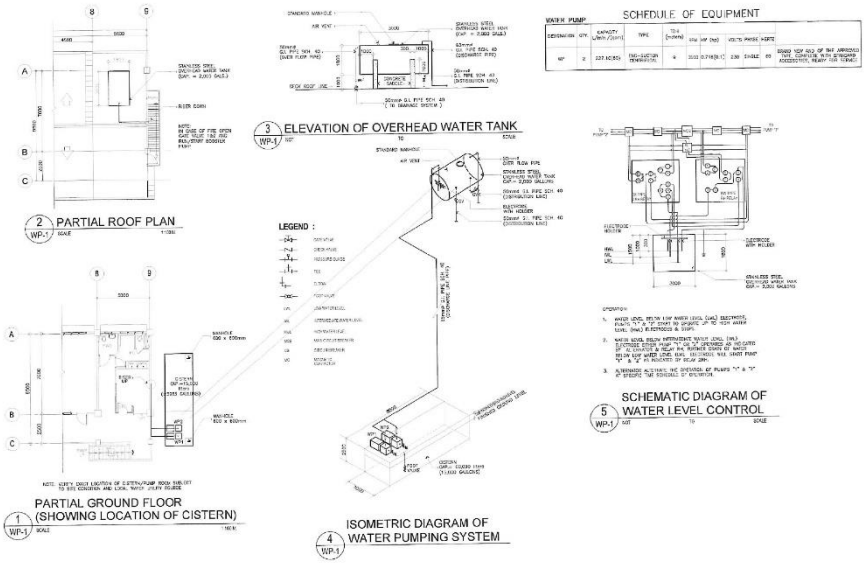

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REPUBLIC OF THE PHILIPPINES
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO
SPECIAL DEVELOPMENT FUND - PROJECT MANAGEMENT OFFICE
BANGSAMORO GOVERNMENT CENTER, COTABATO CITY

CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH "ALHIDAAYAH AL-ISLAMIYYAH" WITH FACILITIES

Makaguiling, Sultan Kudarat, Maguindanao

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BANGSAMORO GOVERNMENT CENTER, COTABATO CITY

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PERSPECTIVE

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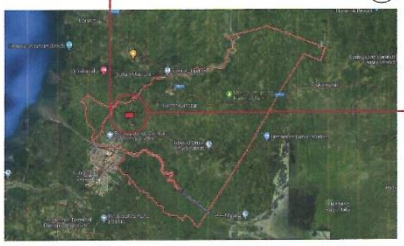
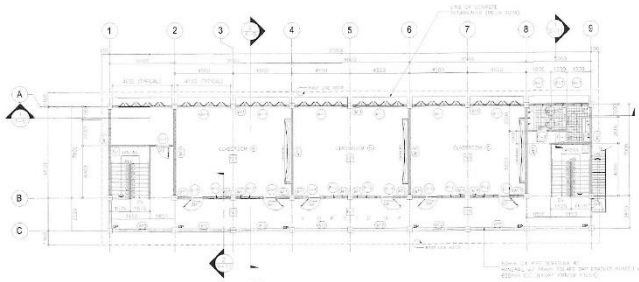
1 LOCATION MAP

THIS SITE
Maxagulling, Sultan Kudarat, Maguindanao, BARMM

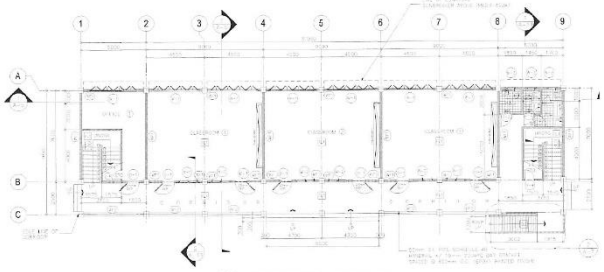


2 SITE DEVELOPMENT MAP

REPUBLIC OF THE PHILIPPINES BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO **SPECIAL DEVELOPMENT FUND - PMO** BANGSAMORO GOVERNMENT CENTER, COTABATO CITY	PROJECT TITLE CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH TAHDAYAH AL-ISLAMIYYAH WITH FACILITIES BRGY. MAXAGULING, SULTAN KUDARAT, MAGUINDANAO	PREPARED BY ENGR. HUMSIRIN S. MANALINTAO JR. ENGR. [illegible]	REVIEWED BY ENGR. [illegible]	RECOMMENDED BY ENGR. MOHAMMAD T. ALI MINDA	APPROVED BY ARMANNAS L. MABULAMMA	SHT NO. A 2	SHEET NO. 02 35



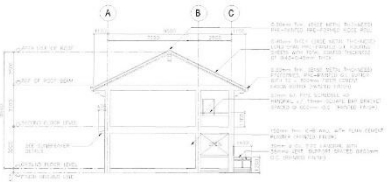
2 SECOND FLOOR PLAN
A-3 SCALE 1:100



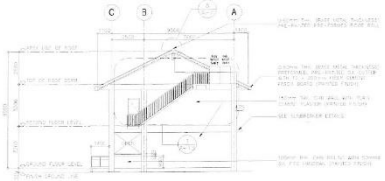
1 GROUND FLOOR PLAN
A-3 SCALE 1:100

SCHEDULE OF FINISHES

REPUBLIC OF THE PHILIPPINES BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO **SPECIAL DEVELOPMENT FUND - PMO** BANGSAMORO GOVERNMENT CENTER, COTABATO CITY	PROJECT TITLE CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH TAHDAYAH AL-ISLAMIYYAH WITH FACILITIES BRGY. MAXAGULING, SULTAN KUDARAT, MAGUINDANAO	PREPARED BY ENGR. HUMSIRIN S. MANALINTAO JR. ENGR. [illegible]	REVIEWED BY ENGR. [illegible]	RECOMMENDED BY ENGR. MOHAMMAD T. ALI MINDA	APPROVED BY ARMANNAS L. MABULAMMA	SHT NO. A 3	SHEET NO. 03 35

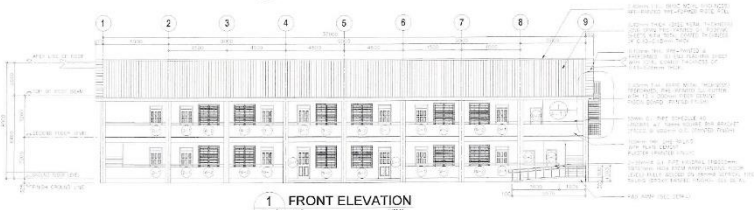


3 LEFT SIDE ELEVATION
A-4 SCALE 1:100M



4 RIGHT SIDE ELEVATION
A-4 SCALE 1:100M

2 REAR ELEVATION
A - 4 SCALE 1:100M



1 FRONT ELEVATION
A - 4 SCALE 1:100M

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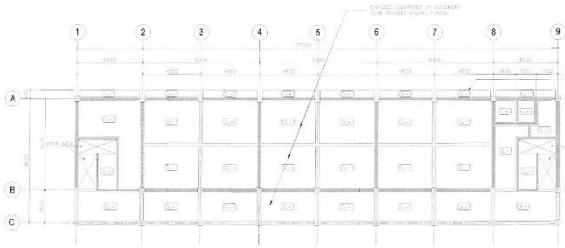
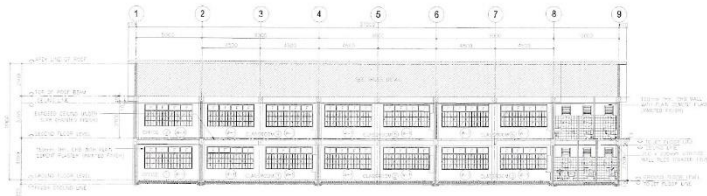
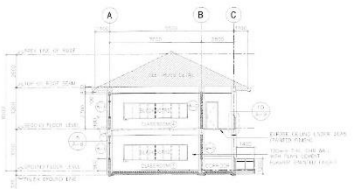
BRGY. MACALULING, DULAWAN, MAGUINDANAO	ENGR. [illegible]					



3 GROUND FLOOR REFLECTED CEILING PLAN
A-5 SCALE 1:100M



1 LONGITUDINAL SECTION
A-5 SCALE 1:100M



2 CROSS SECTION
A-5 SCALE 1:100M

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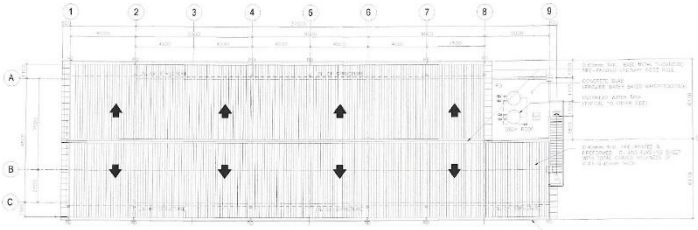
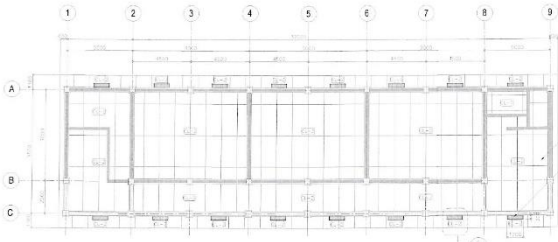
BRGY. MACALULING, DULAWAN, MAGUINDANAO	ENGR. [illegible]					



2 A-6 ROOF PLAN



1 A-6 SECOND FLOOR REFLECTED CEILING PLAN

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SPECIAL DEVELOPMENT FUND - PMO
BANGSAMORO GOVERNMENT CENTER, COTABATO CITY

PROJECT TITLE: CONSTRUCTION OF TWO (2) STOREY 6 CLASSROOM MADRASAH TALIM DARIYAH AL-ISLAMIYYAH WITH FACILITIES
BRGY. MAGAGUNIS, SULTAN KUDARAT, MAGUINDANAO

PREPARED BY: ENGR. HUMAIRAH A. MAMALINTAS JR.
ENGR. ESMAEL PANGCE

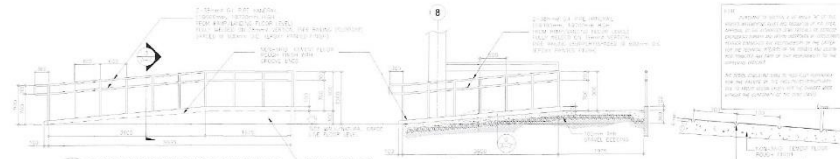
REVIEWED BY:

RECOMMENDED BY: ENGR. ABDULBASIT ALI MIMBA

APPROVED BY: ABDUKARIS L. MASLAMAMA

SET NO. A 6

SHEET NO. 06 35

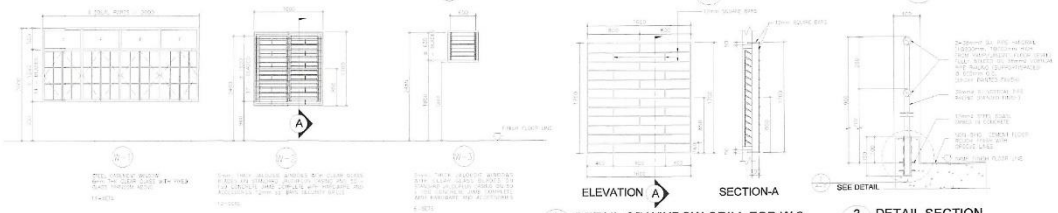


4 A-7 DETAIL ELEVATION OF RAMP

5 A-7 DETAIL SECTION OF RAMP

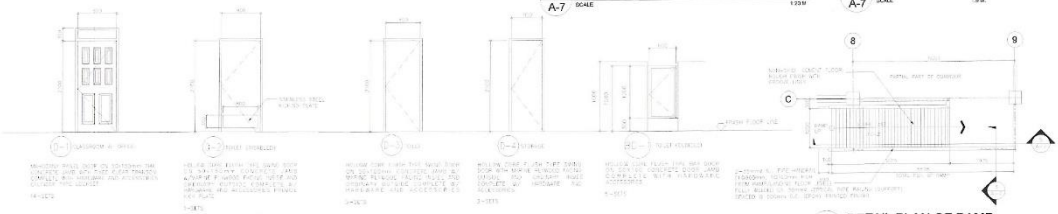
6 A-7 DETAIL SECTION

7 A-7 SPOT DETAIL



8 A-7 DETAIL OF WINDOW GRILL FOR W-2

3 A-7 DETAIL SECTION



1 A-7 SCHEDULE OF DOORS AND WINDOWS

2 A-7 DETAIL PLAN OF RAMP

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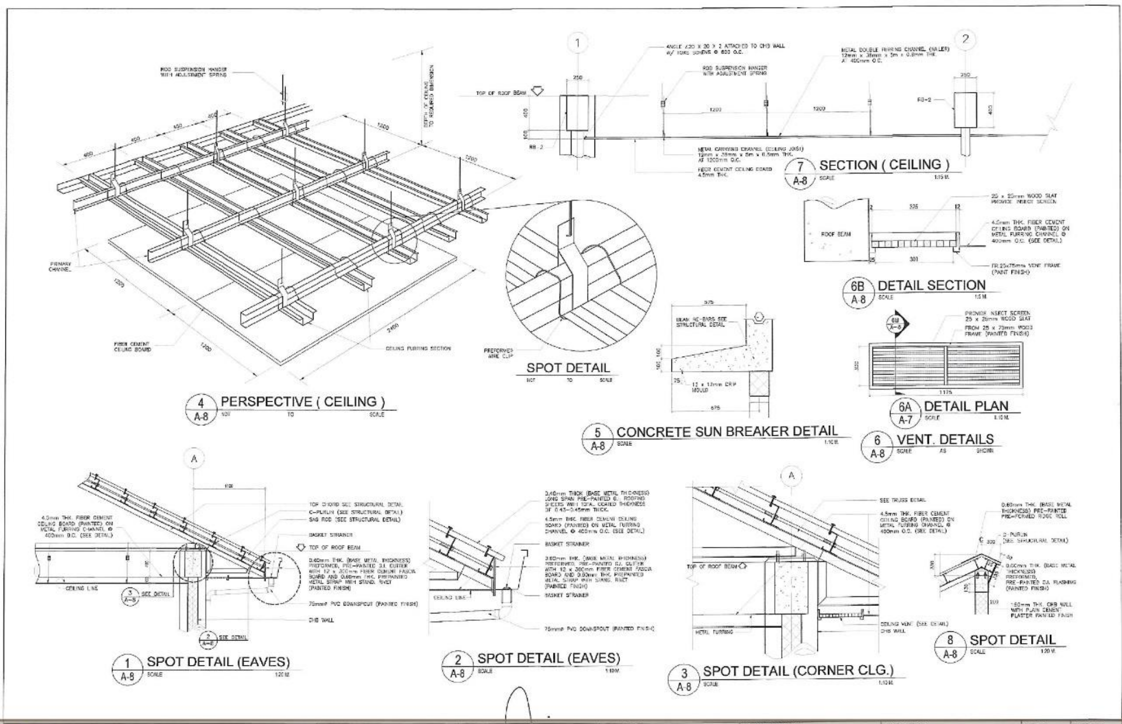
REVIEWED BY:

RECOMMENDED BY: ENGR. ABDULBASIT ALI MIMBA

APPROVED BY: ABDUKARIS L. MASLAMAMA

SET NO. A 7

SHEET NO. 07 35



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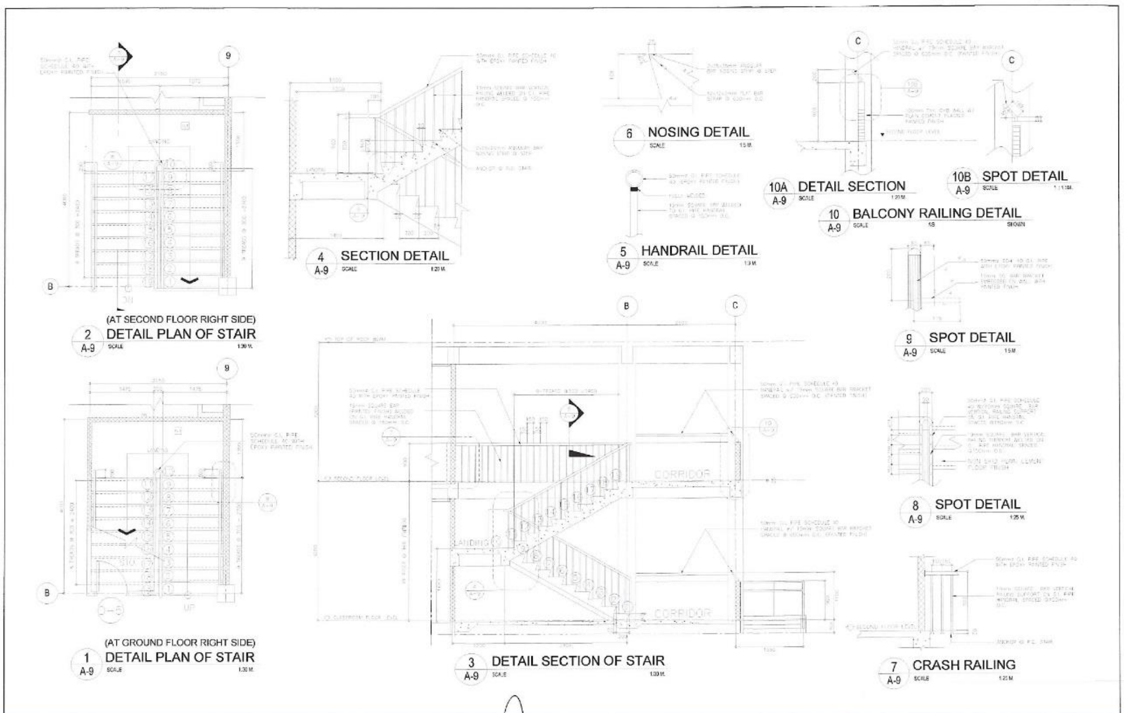
PROJECT TITLE	PREPARED BY:	REVIEWED BY:	RECOMMENDED BY:	APPROVED BY:	SET NO.	SHEET NO.
CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH "AL HIDAAYAH AL-ISLAMIYYAH" WITH FACILITIES BRGY. MADAGUING, SULTAN KUDARAT, MAGUINDANAO	ENGR. HUMSHORIE A. MAMULINTAO JR. ENGINEER II/PROJECT COORDINATOR, SDF-PMO ENGR. ESMAEL C. USOP ENGINEER II/PROJECT COORDINATOR, SDF-PMO	DEPUTY MANAGER ON OPERATIONS, SDF-PMO	ENGR. MOHAJIRIN T. ALI, MNSA PROJECT MANAGER, SDF-PMO	ABUNAWAS L. MASLAMAMA SENIOR MINISTER	A 8	08 35



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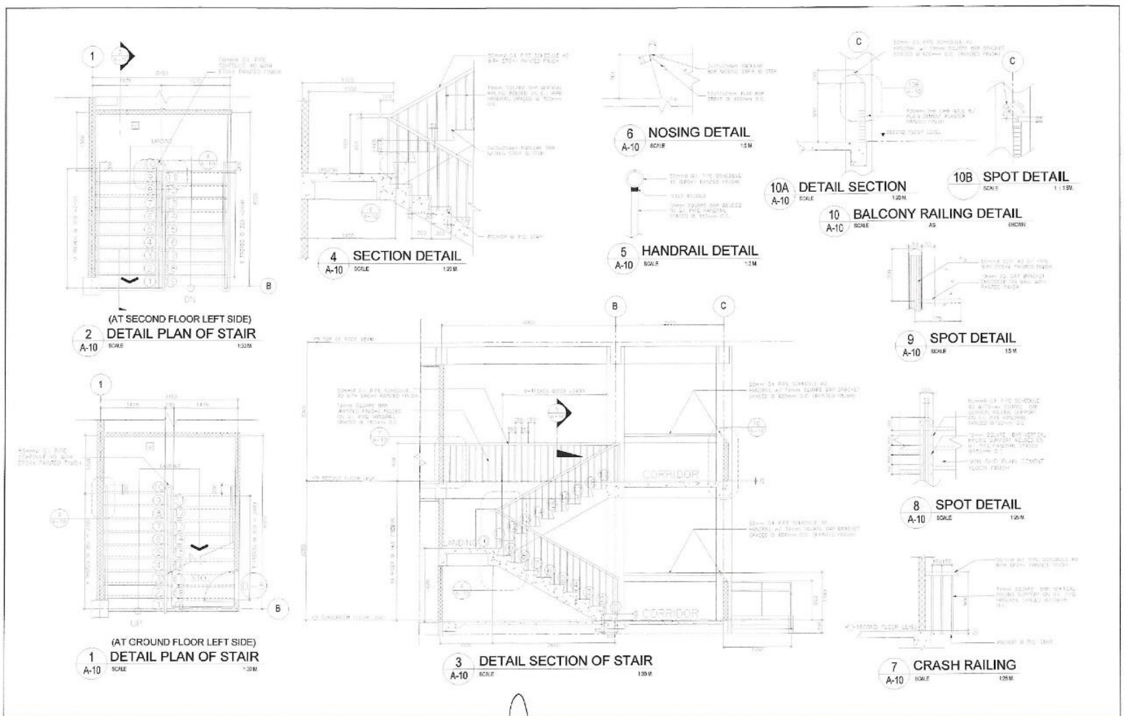

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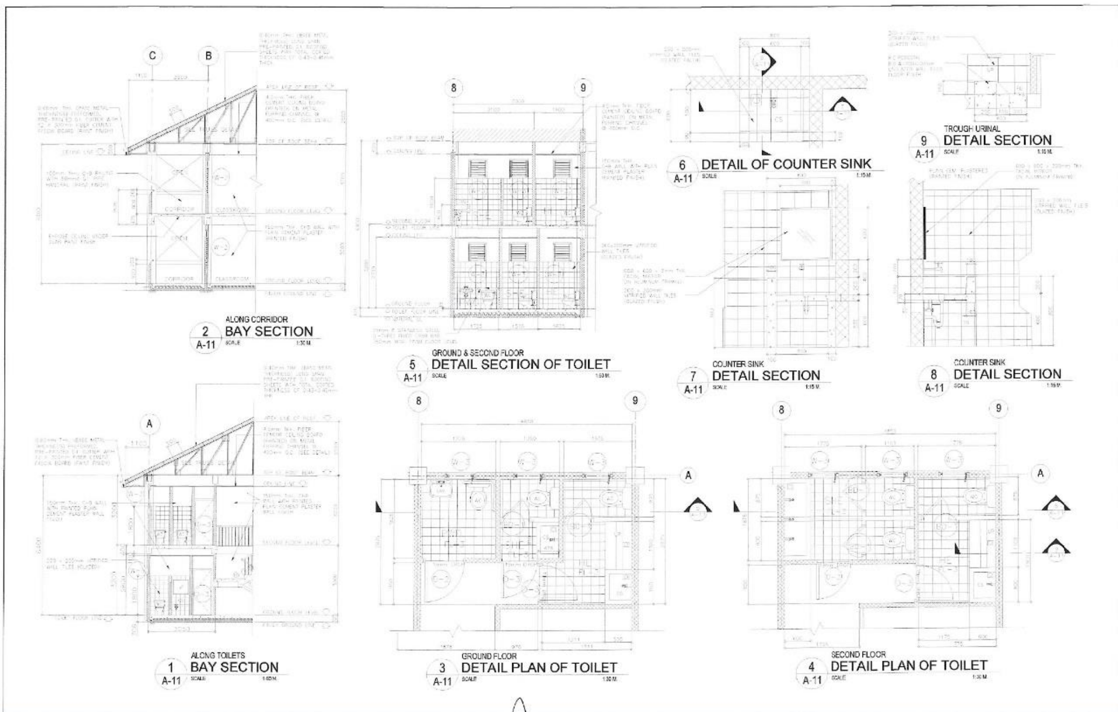

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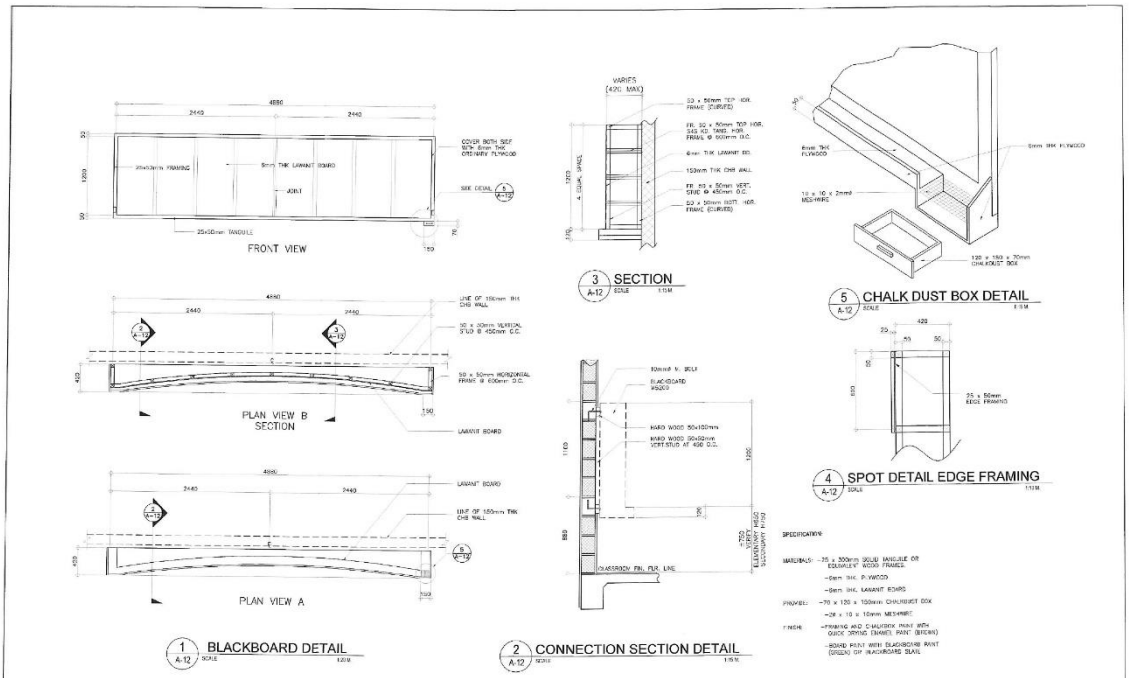
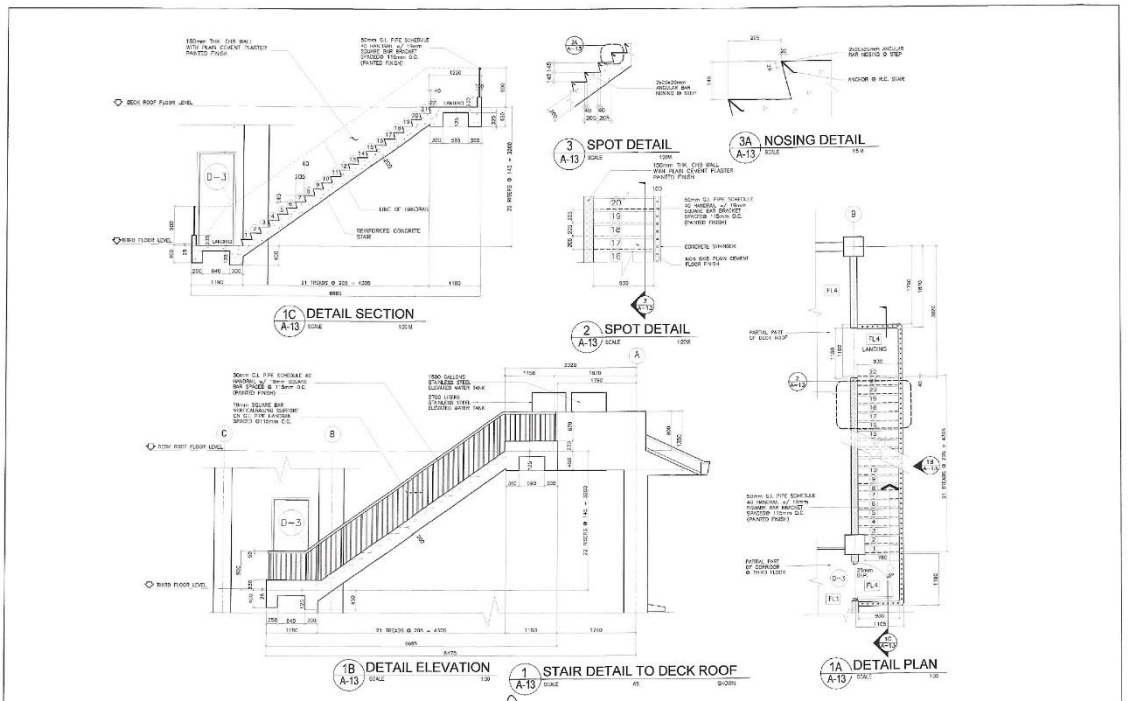


REPUBLIC OF THE PHILIPPINES BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO **SPECIAL DEVELOPMENT FUND - PMO** BANGSAMORO GOVERNMENT CENTER, COTABATO CITY	PROJECT TITLE: CONSTRUCTION OF TWO-STOREY 6 CLASSROOM MADRASAH ALHUDAYAH AL-ISLAMIYYAH WITH FACILITIES BRGY. MAGAULING, SULTAN MASTURA, MAGUINDANAO	PREPARED BY: ENGR. HUMAIRAH L. MANALINTAO JR. ENGINEER III	REVIEWED BY: ENGR. KADER MALIK JR., PME DEPUTY MANAGER, OPERATIONS SERVICES	RECOMMENDED BY: ENGR. NOHAIRIN T. ALI MNSA PROJECT MANAGER, SERVICES	APPROVED BY: ABDANAS L. MASLAMAMA SDF-PMO MINISTER	SHEET NO. A 12	SHEET NO. 12 35



REPUBLIC OF THE PHILIPPINES BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO **SPECIAL DEVELOPMENT FUND - PMO** BANGSAMORO GOVERNMENT CENTER, COTABATO CITY	PROJECT TITLE: CONSTRUCTION OF TWO STOREY 6 CLASSROOM MADRASAH ALHUDAYAH AL-SUMIYYAH WITH FACILITIES BRGY. MAGAULING, SULTAN MASTURA, MAGUINDANAO	PREPARED BY: ENGR. HUMAIRAH L. MANALINTAO JR. ENGINEER III	REVIEWED BY: ENGR. KADER MALIK JR., PME DEPUTY MANAGER, OPERATIONS SERVICES	RECOMMENDED BY: ENGR. NOHAIRIN T. ALI MNSA PROJECT MANAGER, SERVICES	APPROVED BY: ABDANAS L. MASLAMAMA SDF-PMO MINISTER	SHEET NO. A 13	SHEET NO. 13 35

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

1.0 STANDARDS AND REFERENCES

THE FOLLOWING SHALL GOVERN THE DESIGN, FABRICATION AND CONSTRUCTION OF THE PROJECT

1.1 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (N.S.C.P.), VOL. 1, 6TH EDITION, 2010.

2.0 DESIGN CRITERIA

2.1 LOADINGS

A. DEAD LOAD

CONCRETE	23.50kN/m
STEEL	76.93kN/m
150mm THK. CHB WALL	2.73 kPa
100mm THK. CHB WALL	2.11 kPa

B. LIVE LOAD

ROOF	1.00 kPa
CLASSROOMS	1.90 kPa
TOILETS	2.40 kPa
CORRIDORS ABOVE, STAIRS	3.80 kPa
CORRIDORS ON GROUND	4.80 kPa

C. WIND LOAD (NSCP 2010)
BASIC WIND VELOCITY, V = 250 KPH
P = qh [(GCpf)-(GCpi)] (DESIGN WIND PRESSURE)
WHERE: qh = VELOCITY PRESSURE, kPa)
GCpf = EXTERNAL PRESSURE COEFFICIENT
GCpi = INTERNAL PRESSURE COEFFICIENT

D. SEISMIC LOAD (NSCP 2010)

$$V = \frac{Cv}{RT} W \quad \text{(DESIGN BASE SHEAR)}$$

$$Vmax = \frac{2.50\ Ca\ I}{R} W \qquad Vmin = 0.11\ CaIW$$

$$Vmin = \frac{0.80\ ZNvI}{R} W \ \text{(ZONE 4)}$$

WHERE: W = TOTAL DEAD LOAD
T = NATURAL PERIOD = $C_t (h_n)^{3/4}$
WHERE: C = NUMERICAL COEFFICIENT
h = BUILDING HEIGHT
I = IMPORTANCE FACTOR = 1.50
R = NUMERICAL FACTOR = 8.50
SEISMIC COEFFICIENT Cv = 0.64Nv
Ca = 0.44Na
NEAR SOURCE FACTOR (10km) Na = 1.2
Nv = 1.0
Z = SEISMIC ZONE = 0.40 (ZONE 4)
S = SOIL TYPE = D

2.2 DESIGN STRESSES

A. CONCRETE FOR FOOTING, COLUMNS, BEAMS AND SLAB ON FILL — COMPRESSIVE STRENGTH @ 28 DAYS	f'c = 20.7 MPa (3,000 psi)
B. REINFORCING STEEL BARS — a. FOR BARS 16mm AND GREATER INTERMEDIATE GRADE DEFORMED BAR	fy = 275 MPa (40,000 psi)
b. FOR BARS LESS THAN 16mm STRUCTURAL GRADE DEFORMED BAR	fy = 230 MPa (33,000 psi)
C. STRUCTURAL STEEL, ASTM-A36 — FOR TRUSSES, BRACINGS, & STRUTS	fy = 248 MPa (36,000 psi)
D. PURLINS — COLD FORMED LIGHT GAGE SHAPES	fy = 248 MPa (36,000 psi)
E. MASONRY UNIT (CHB) — NON-LOAD BEARING CHB WALLS	fm' = 3.45 MPa (500 psi)
F. WELDS-USED E-60xx ELECTRODE	
G. STRUCTURAL BOLTS, ASTM-A307 — a. Ft = 96.60 MPa (14,000 psi) b. Fv = 69 MPa (10,000 psi)	

3. IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
4. IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DRAINS ETC.
5. IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
6. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE NSCP ... BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION ... WITH THE LOCAL BUILDING CODE REQUIREMENT.
7. ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
8. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
9. SHOP DRAWINGS WITH ERECTION AND PLACING DRAWINGS OF ALL STRUCTURAL STEELS, MISCELLANEOUS STEEL, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
10. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENTS AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
11. ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS, & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

[illegible]

NOTES ON FOOTINGS

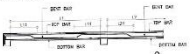
[illegible]

NOTES ON REINFORCEMENT

[illegible]

NOTES ON CONCRETE SLABS

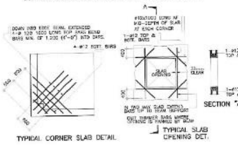
1. ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
2. UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:



TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

SCHEDULE OF MINIMUM SLAB REINFORCEMENT

[illegible]



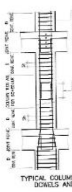
TYPICAL CORNER SLAB DETAIL

TYPICAL SLAB OPENING DET.

SECTION "A"

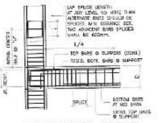
NOTES ON COLUMNS

[illegible]



TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING

NOTE:
ALL CONCRETE REINF. DETAIL SHOULD BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF ACI DETAILING MANUAL



TYP. DETAIL OF COL. LAP SPLICE & EXT. GIRDER TO COL. CONNECT.

NOTES ON BEAMS AND GIRDERS

[illegible]

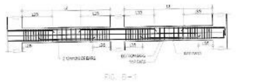


FIG. B-1

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SET NO. S / 1	SHEET NO. 14 / 35				