Republic of the Philippines
WESTERN MINDANAO STATE UNIVERSITY
PHYSICAL PLANT AND ENGINEERING SERVICES
Zamboanga City

PROJECT PROFILE

PROJECT TITLE	:	**CONSTRUCTION OF THE CHEMISTRY DEPARTMENT SCHOOL INFRASTRUCTURE/EDIFICE**
ABC	:	**PhP 68,000,000.00**
TOTAL FLOOR AREA	:	**1,576 sq.m.**
Ground Floor	:	235.50 sq.m.
2nd Floor	:	235.50 sq.m.
3rd Floor	:	509.00 sq.m.
4TH Floor	:	509.00 sq.m.
Roof Deck	:	86.50 sq.m.
NO. OF STOREY	:	**FOUR (4) STOREY WITH ROOF DECK**
COST PER SQ.M.	:	**PhP 43,147/sq.m.**
PROJECT CONSTRUCTION DURATION	:	**730 Calendar Days**
NO. OF CLASSROOMS	:	6 Classrooms x 48 Students/room= 288 students 4 Laboratories x 28 Students/room= 112 Students = 400 Students in total (7.00 x 9.00meter = 63 Sq.m.) (GF- 0, 2F- 2, 3F- 4 & 4f-4 Classrooms

TOILET : Male, PWD & Gender-Neutral Toilets @ GF
Male Toilet @ 2F, Male & Female Toilets @ 3F & 4F.

A comprehensive building statutory compliance checklist covers building codes, fire safety, environmental regulations, health and safety, structural integrity, and accessibility,

Building Codes & Structural Integrity:

- Ensuring the building's foundation, walls, and roof meet current structural code requirements.
- Adhering to building regulations for construction and alterations

Fire Safety & Equipment:

- Installation fire sprinkler system, smoke detectors and fire alarms.
- Proper placement of fire extinguishers.
- Ensures clear and unobstructed fire exits and escape routes

Health & Safety:

- Compliance with health and safety regulations.
- Appropriate lighting and ventilation within the building

Accessibility:

- The building is accessible to people with disabilities, through ramps, elevators, and proper signage.

Green Architecture:

- Energy Efficiency: Using energy-efficient ventilation, lighting, and appliances, as well as alternative energy sources like solar and wind power.
- Water Conservation: Incorporating plumbing fixtures and designs that reduce water consumption, rainwater harvesting systems for landscaping and toilet flushing.
- Thermal roof insulation create a building envelope that minimizes heat transfer, which directly supports the core green principle of energy efficiency.

Common building materials used are raw & manufactured substances used in construction are the following; Concrete, Steel, Wood, Stone, Masonry, Glass, Aluminum & Insulation.

Building Structural Components using the materials above are assembled into the following;

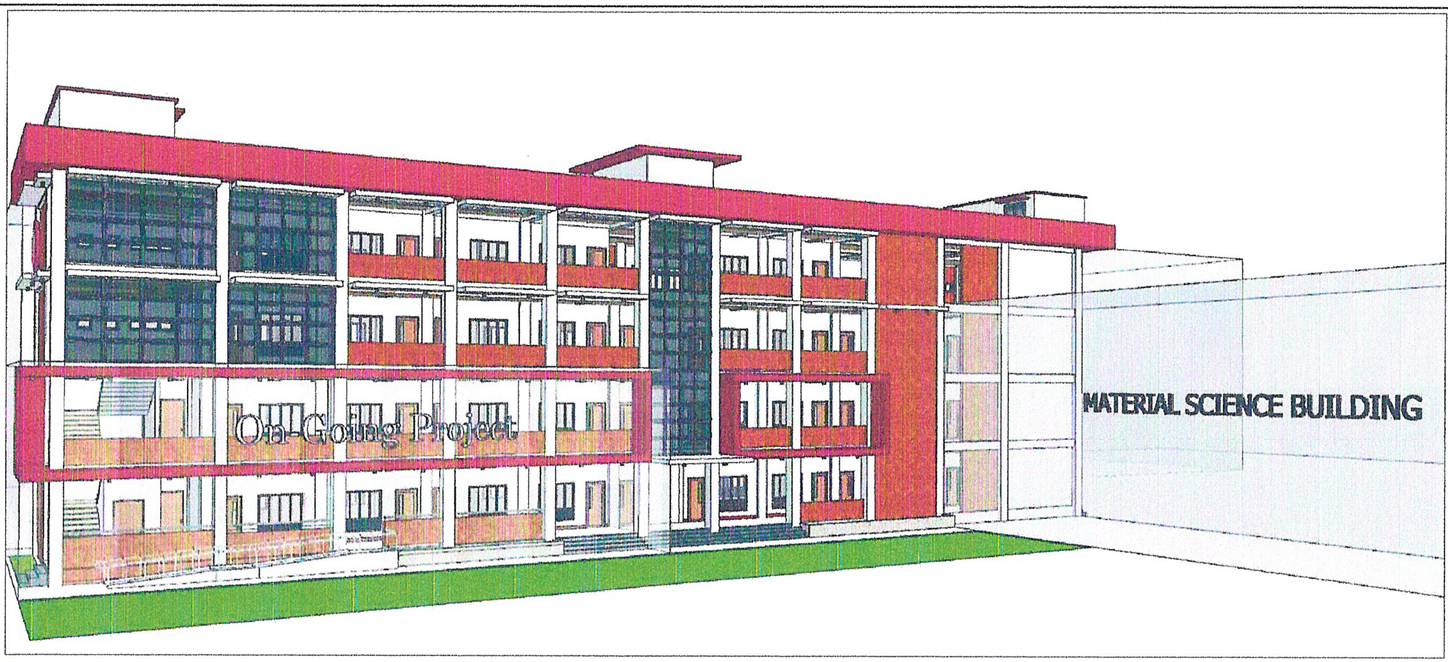
Foundation: The base of the building that supports the entire structure.
Walls: Vertical structures that enclose and support the building.

Beams and Columns: Vertical and horizontal structural elements that carry loads from the roof and floors to the foundation.
Floors: The flat surfaces that support people and furniture, connecting different levels of the building.
Roof: The uppermost part of the building that provides shelter.
Doors and Windows: Openings in the walls that provide access and allow for natural light and ventilation.
Plumbing and Electrical Systems: The pipes and wiring systems for water, waste, and power.

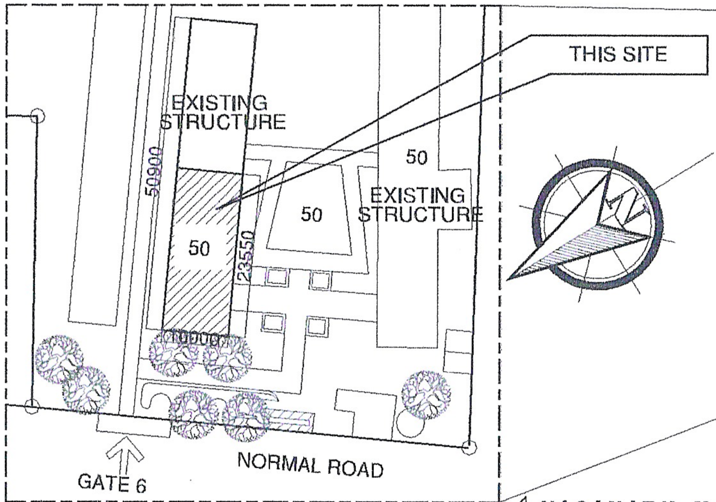
PERSPECTIVE

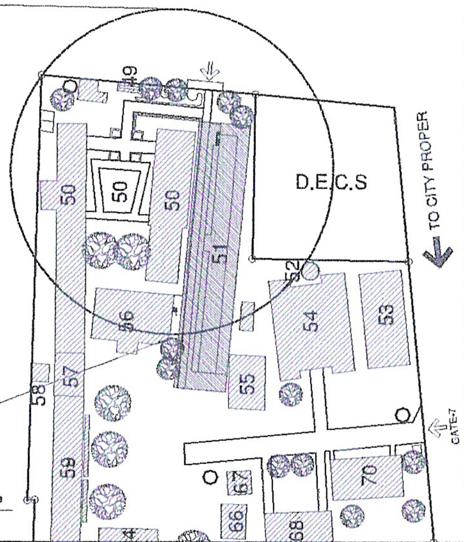
Prepared by:

ARCH. JOSEPH ANDREW L. SAHIAL
Director, PPES/ University Architect
PDO-III



PERSPECTIVE VIEW
NOT TO SCALE





VICINITY MAP
NOT TO SCALE

LEGEND:

CAMPUS - A			
1	SECURITY OFFICE / GUARD HOUSE	36	ELEMENTARY LAB BLDG
2	MOTORPOOL / PHYSICAL PLANT OFFICE	37	COVERED COURT
3	COOP CANTEEN	38	LANDBANK / GARMENTS / DESCD
4	ADA CANTEEN	39	BAKERY
5	CAMPUS MINISTRY OFFICE	40	COLLEGE OF HOME ECONOMICS BLDG
6	[illegible]	41	[illegible]
7	COLLEGE OF EDUCATION BUILDING (MAIN BUILDING)	42	HOTEL AND RESTAURANT MANAGEMENT BLDG
8	[illegible] ADMISSION / SCHOLARSHIP [illegible]	43	STUDENT CENTER (COLLEGE OF NURSING)
9	OPEN STAGE	44	COLLEGE OF NURSING BLDG
10	UNIVERSITY LIBRARY	45	COLLEGE OF NURSING ANNEX BLDG
11	GYMNASIUM	46	[illegible] CANTEEN / UNIVERSITY PRESS / POST OFFICE
12	TRANSFORMER / POWER HOUSE & CARPENTRY SHOP	47	ALUMNI DISPLAY CENTER AND CANTEEN
13	PMO STOREROOM / UNIVERSITY SERVICE CENTER	48	PEDESTRIAN OVERPASS
14	EXECUTIVE BLDG	**CAMPUS - B**	
15	COLLEGE OF SOCIAL SCIENCES BLDG	49	TRANSFORMER BANKING
16	RESEARCH CENTER BLDG	50	COLLEGE OF SCIENCE AND MATHEMATICS
17	COLLEGE OF LAW	51	HIGH SCHOOL BLDG
18	LAW CANTEEN	52	ELEVATED WATER TANK
19	COLLEGE OF PUBLIC ADMINISTRATION BLDG	53	4 STOREY MULTIPURPOSE DORMITORY
20	STUDENT KIOSK	54	DORMITORY BLDG
21	COLLEGE OF COMMUNICATION AND HUMANITIES	55	COVERED COURT
22	UNIVERSITY COMMON ROOM	56	COLLEGE OF CRIMINAL JUSTICE EDUCATION BLDG
23	UNIVERSITY HEALTH CENTER	57	2 STOREY LECTURE ROOM COLLEGE OF SCIENCE AND MATHEMATICS
24	COLLEGE OF ENGINEERING KIOSK	58	MALE AND FEMALE CR
25	COLLEGE OF ENGINEERING STAGE	59	COLLEGE OF ASIAN AND ISLAMIC STUDIES
26	COLLEGE OF ENGINEERING AND TECHNOLOGY BLDG	[illegible]	COLLEGE OF SOCIAL WELFARE & DEVELOPMENT BLDG
27	COLLEGE OF EDUCATION SPEED BLDG	[illegible]	STUDENT KIOSK ([illegible])
28	[illegible] COLLEGE OF ENGINEERING AND TECHNOLOGY	[illegible]	AKBAYAN BLDG
29	ELEVATED WATER TANK	[illegible]	NURSERY ROOM
30	COLLEGE OF ARCHITECTURE BLDG	[illegible]	CANTEEN
31	STORAGE ROOM	[illegible]	SCIENCE & TECHNOLOGY [illegible]
32	ELEMENTARY FACULTY ROOM	[illegible]	FACULTY / STUDENT AFFAIR BLDG
33	STUDENT KIOSK COLLEGE OF ARCHITECTURE	[illegible]	MEDICAL FACILITIES CENTER
34	ELEMENTARY H.E. BLDG	[illegible]	PRACTICAL ARTS BLDG
35	ELEMENTARY SCHOOL BLDG	[illegible]	ELEVATED WATER TANK
		70	REGIONAL SCIENCE TEACHING CENTER BLDG

TABLE OF CONTENTS

DPWH

OFFICE OF THE BUILDING OFFICIALS
ZAMBOANGA CITY

LAND USE AND ZONING

LINE AND GRADE

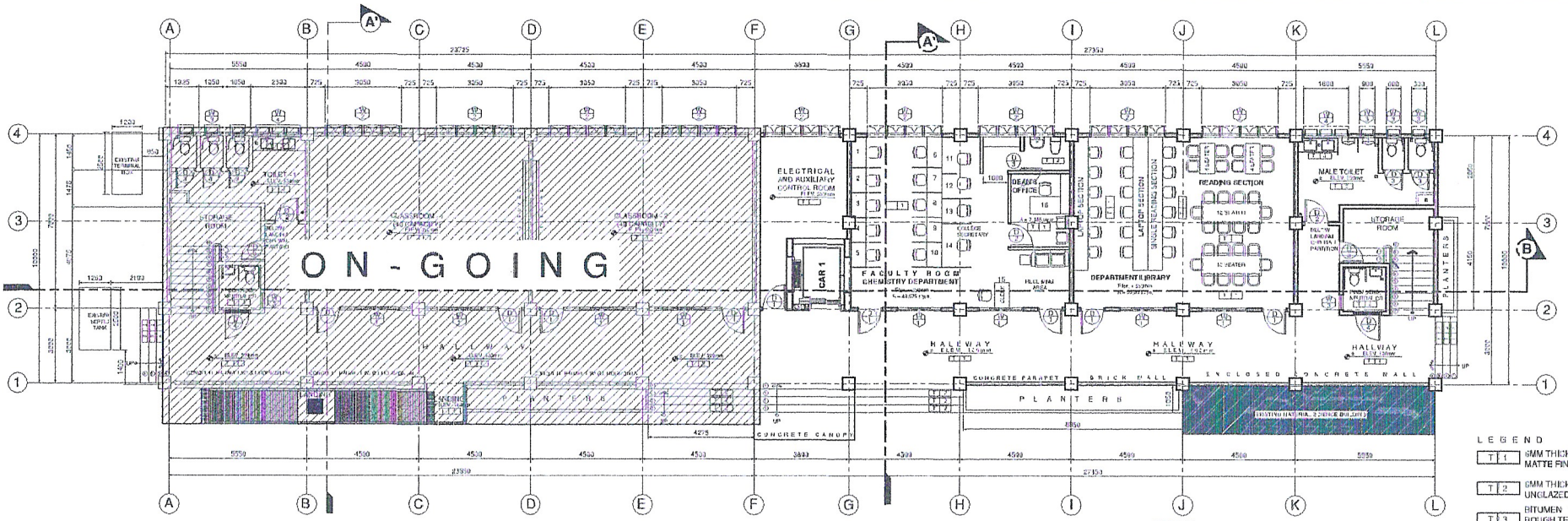
ARCHITECTURAL

STRUCTURAL

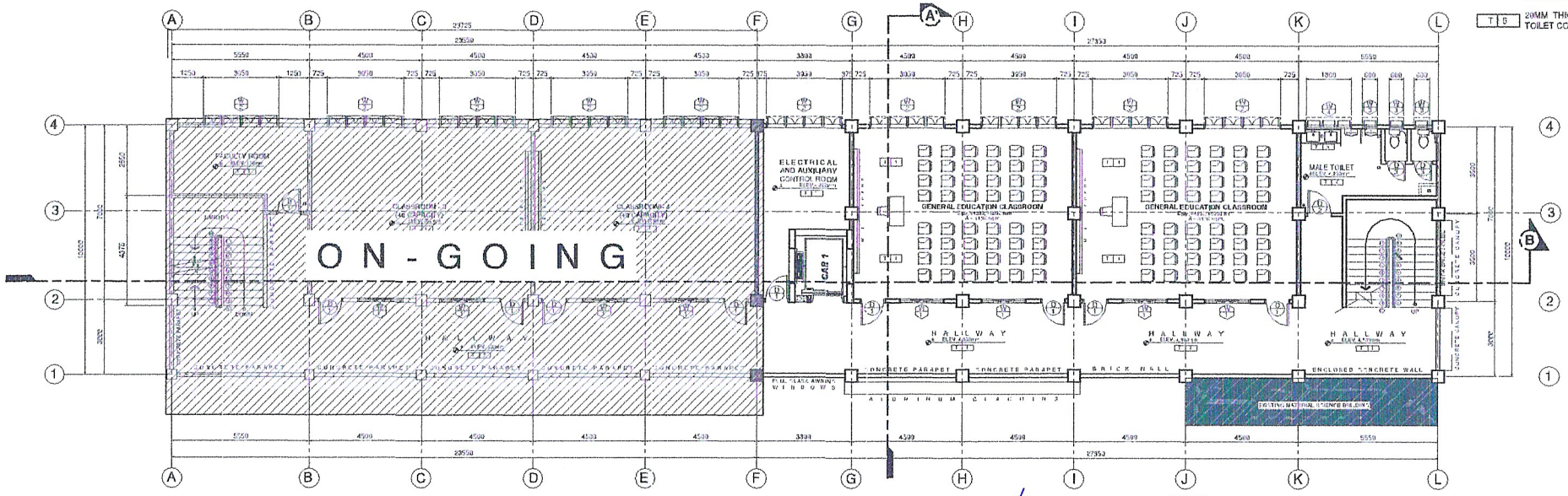
SANITARY

ELECTRICAL

DESIGNED BY:	PROJECT TITLE:	REQUISITIONER	RECOMMENDING APPROVAL	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS	SHEET NO.	
ARCH. JOSEPH ANDREW L. SAHIAL,UAP UNIVERSITY ARCHITECT	CONSTRUCTION OF THE CHEMISTRY DEPARTMENT SCHOOL INFRASTRUCTURE / EDIFICE	DR. MOHAMMAD NUR S. PASPASAN DEAN, COLLEGE OF SCIENCE AND MATHEMATICS	ARCH. JOSEPH ANDREW L. SAHIAL,UAP DIRECTOR OF PHYSICAL PLANT AND ENGINEERING SERVICES	DR. JOSELITO D. MADROÑAL VICE PRESIDENT FOR ADMIN AND FINANCE	DR. MA. CARLA A. OCHOTORENA WMSU-PRESIDENT	AS SHOWN	A01 01	WMSU-PPES-FR-XXX-XX
PRC: 0010577 PTR: 2929291 TIN: 445-013-228	LOCATION: WMSU CAMPUS B, NORMAL ROAD, ZAMBOANGA CITY		PRC: 0010577 PTR: 2929291 TIN: 445-013-228			PREPARED BY: AR. TORILLO		EFFECTIVE DATE: XX XXXX XXXX



235.50 SQM
GROUND FLOOR PLAN
SCALE: 1:100 MTRS

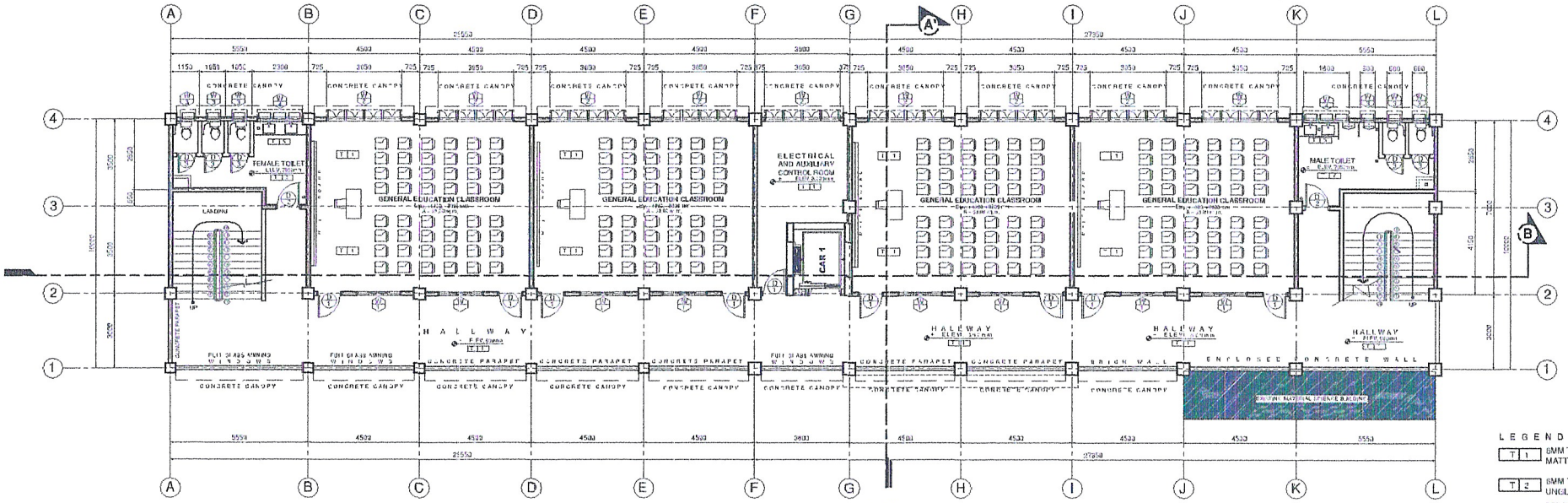


235.50 SQM
SECOND FLOOR PLAN
SCALE: 1:100 MTRS

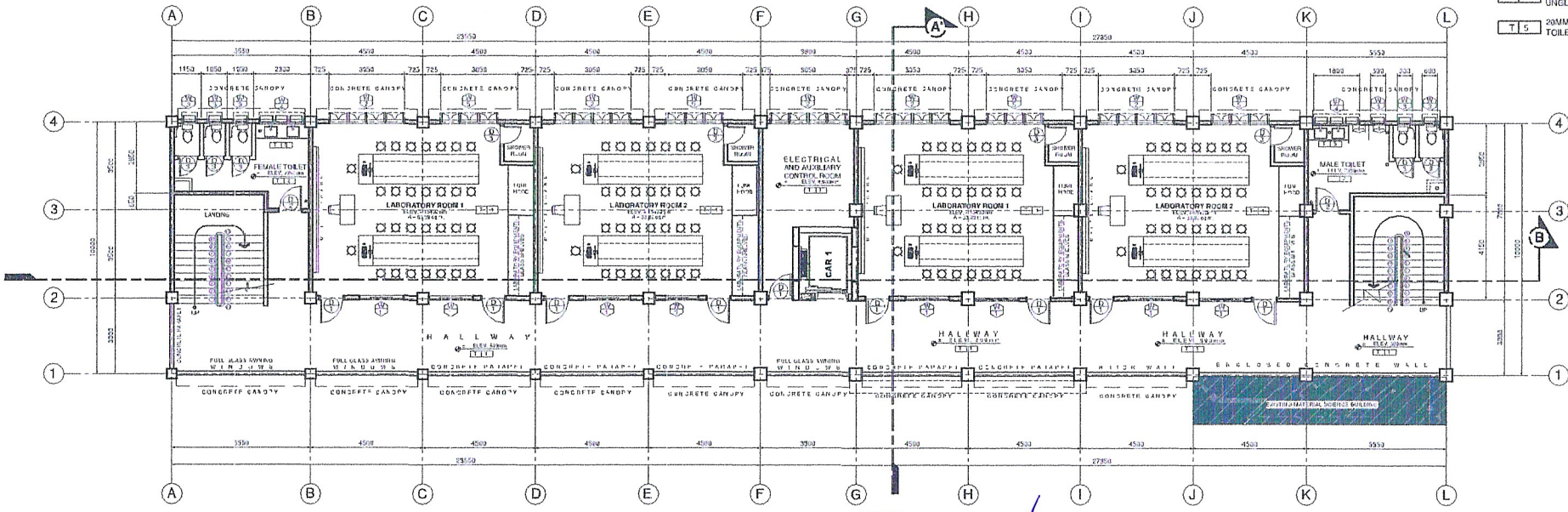
LEGEND

T1	6MM THICK X 600MM X 600MM NON-SLIP MATTE FINISH PORCELAIN FLOOR TILES
T2	6MM THICK X 600MM X 600MM CERAMIC UNGLAZED FLOOR TILES (FOR TOILET)
T3	BITUMEN WATERPROOF MEMBRANE WITH ROUGH TEXTURE CONCRETE FINISHED (TO ARCHITECT'S APPROVAL)
T4	6MM THICK X 300MM X 600MM CERAMIC UNGLAZED WALL TILES (FOR TOILET)
T5	20MM THICK X 2' X 8' GRANITE SLAB (FOR TOILET COUNTER TOP)

DESIGNED BY: **ARCH. JOSEPH ANDREW L. SAHIAL,UAP** UNIVERSITY ARCHITECT	PROJECT TITLE: **CONSTRUCTION OF THE CHEMISTRY DEPARTMENT SCHOOL INFRASTRUCTURE / EDIFICE**	REQUISITIONER: **DR. MOHAMMAD NUR S. PASPASAN** DEAN, COLLEGE OF SCIENCE AND MATHEMATICS	RECOMMENDING APPROVAL: **ARCH. JOSEPH ANDREW L. SAHIAL,UAP** DIRECTOR OF PHYSICAL PLANT AND ENGINEERING SERVICES	RECOMMENDING APPROVAL: **DR. JOSELITO D. MADROÑAL** VICE PRESIDENT FOR ADMIN AND FINANCE	APPROVED BY: **DR. MA. CARLA V. OCHOTORENA** WMSU PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.
PRC: 0010577 PTR: 2929291 TIN: 445-013-228	LOCATION: WMSU CAMPUS B, NORMAL ROAD, ZAMBOANGA CITY		PRC: 0010577 PTR: 2929291 TIN: 445-013-228			PREPARED BY: AR. TORILLO	WMSU-PPES-FR-XXX-XX EFFECTIVE DATE XX XXXX XXXX



THIRD FLOOR PLAN
SCALE: 1:100 METRS

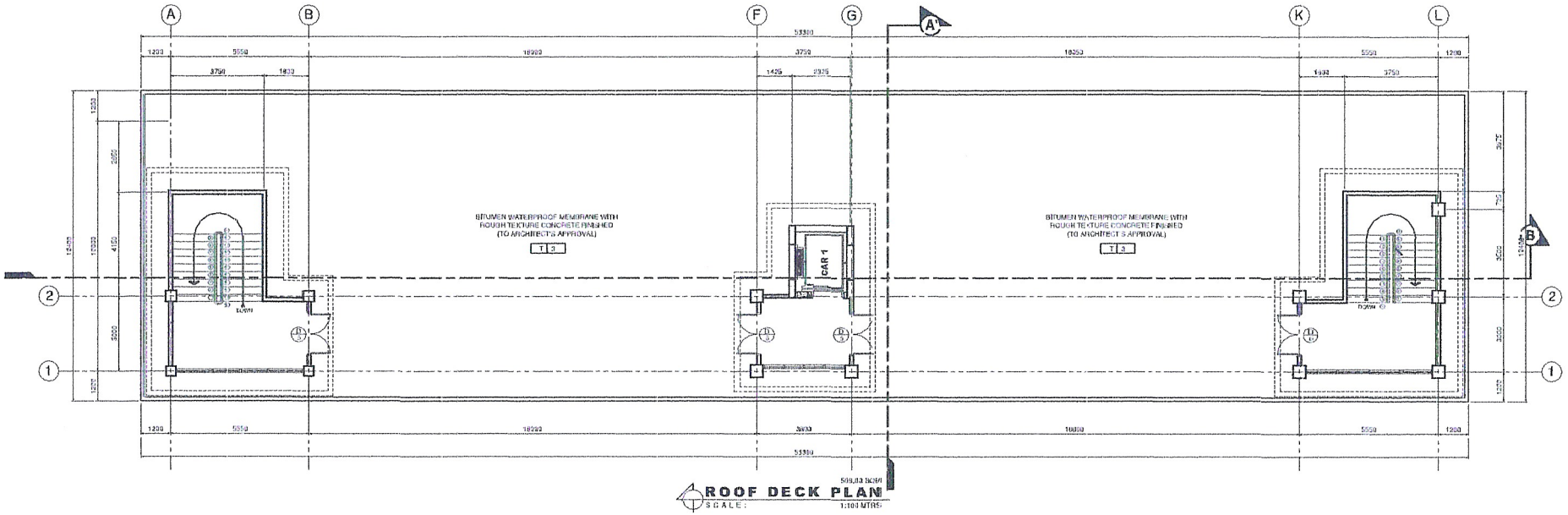


FOURTH FLOOR PLAN
SCALE: 1:100 METRS

LEGEND

T1	6MM THICK X 600MM X 600MM NON-SLIP MATTE FINISH PORCELAIN FLOOR TILES
T2	6MM THICK X 600MM X 600MM CERAMIC UNGLAZED FLOOR TILES (FOR TOILET)
T3	BITUMEN WATERPROOF MEMBRANE WITH ROUGH TEXTURE CONCRETE FINISHED (TO ARCHITECT'S APPROVAL)
T4	6MM THICK X 300MM X 600MM CERAMIC UNGLAZED WALL TILES (FOR TOILET)
T5	20MM THICK X 2' X 8' GRANITE SLAB (FOR TOILET COUNTER TOP)

DESIGNED BY: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, UNIVERSITY ARCHITECT; PRC: 0010577; PTR: 2929291; TIN: 445-013-228	PROJECT TITLE: CONSTRUCTION OF THE CHEMISTRY DEPARTMENT SCHOOL INFRASTRUCTURE / EDIFICE; LOCATION: WMSU CAMPUS B, NORMAL ROAD, ZAMBOANGA CITY	REQUISITIONER: DR. MOHAMMAD NUR S. PASPASAN, DEAN, COLLEGE OF SCIENCE AND MATHEMATICS	RECOMMENDING APPROVAL: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, DIRECTOR OF PHYSICAL PLANT AND ENGINEERING SERVICES; PRC: 0010577; PTR: 2929291; TIN: 445-013-228	RECOMMENDING APPROVAL: DR. JOSELITO D. MADROÑAL, VICE PRESIDENT FOR ADMIN AND FINANCE	APPROVED BY: DR. MA. CARLA A. OCHOTORENA, WMSU-PRESIDENT	SHEET CONTENTS: AS SHOWN; PREPARED BY: AR. TORILLO	SHEET NO.	WMSU-PPES-FR-XXX-XX; EFFECTIVE DATE: XX XXXX XXXX



ROOF DECK PLAN

SCALE: 1:100 MTRS

LEGEND

T 1	6MM THICK X 600MM X 600MM NON-SLIP MATTE FINISH PORCELAIN FLOOR TILES
T 2	6MM THICK X 600MM X 600MM CERAMIC UNGLAZED FLOOR TILES (FOR TOILET)
T 3	BITUMEN WATERPROOF MEMBRANE WITH ROUGH TEXTURE CONCRETE FINISHED (TO ARCHITECT'S APPROVAL)
T 4	6MM THICK X 300MM X 600MM CERAMIC UNGLAZED WALL TILES (FOR TOILET)
T 5	20MM THICK X 2' X 8' GRANITE SLAB (FOR TOILET COUNTER TOP)

DESIGNED BY: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, UNIVERSITY ARCHITECT; PRC: 0010577 PTR: 2929291 TIN: 445-013-228	PROJECT TITLE: CONSTRUCTION OF THE CHEMISTRY DEPARTMENT SCHOOL INFRASTRUCTURE / EDIFICE; LOCATION: WMSU CAMPUS B, NORMAL ROAD, ZAMBOANGA CITY	REQUISITIONER: DR. MOHAMMAD NUR S. PASPASAN, DEAN, COLLEGE OF SCIENCE AND MATHEMATICS	RECOMMENDING APPROVAL: ARCH. JOSEPH ANDREW L. SAHIAL,UAP, DIRECTOR OF PHYSICAL PLANT AND ENGINEERING SERVICES; PRC: 0010577 PTR: 2929291 TIN: 445-013-228	RECOMMENDING APPROVAL: DR. JOSELITO D. MADROÑAL, VICE PRESIDENT FOR ADMIN AND FINANCE	APPROVED BY: DR. MA. CARLA A. OCHOTORENA, WMSU-PRESIDENT	SHEET CONTENTS: AS SHOWN; PREPARED BY: AR. TORILLO	SHEET NO.	WMSU-PPES-FR-XXX-XX; EFFECTIVE DATE: XX XXXX XXXX

Republic of the Philippines
WESTERN MINDANAO STATE UNIVERSITY
Zamboanga City
PHYSICAL PLANT AND ENGINEERING SERVICES

BILL OF ESTIMATED MATERIALS

Project Title: **CONSTRUCTION OF THE CHEMISTRY DEPARTMENT SCHOOL INFRASTRUCTURE/EDIFICE**
Location: **WMSU Main Campus B, Normal Road, Baliwasan, Zamboanga City**

SCOPE OF WORK

ITEM NO.	DESCPRIPTION	LABOR	MATERIAL	EQUIPMENT	TOTAL
B	GENERAL REQUIREMENTS	₱ 286,712.01	₱ 194,964.16	₱ 665,171.86	₱ 1,146,848.03
ITEM 801	REMOVAL OF STRUCTURE AND OBSTRUCTIONS	₱ 320,594.72	₱ -	₱ 2,698,187.93	₱ 3,018,782.65
ITEM 803	STRUCTURE EXCAVATION	₱ 46,907.03	₱ -	₱ 702,406.50	₱ 749,313.52
ITEM 804	EMBANKMENT	₱ 224,877.73	₱ 590,227.02	₱ 65,042.91	₱ 880,147.66
ITEM 807	SITE DEVELOPMENT	₱ 104,022.21	₱ 273,022.67	₱ 30,087.05	₱ 407,131.92
ITEM 900	REINFORCED CONCRETE	₱ 937,098.50	₱ 2,852,719.79	₱ 1,261,925.63	₱ 5,051,743.91
ITEM 901	PLAIN/LEAN CONCRETE	₱ 57,766.21	₱ 134,412.11	₱ 63,991.13	₱ 256,169.45
ITEM 902	REINFORCING STEEL	₱ 1,469,169.78	₱ 3,524,456.32	₱ 546,229.79	₱ 5,539,855.90
ITEM 903	FORMWORKS AND FALSEWORKS	₱ 24,364.30	₱ 264,520.18	₱ 163,983.49	₱ 452,867.96
ITEM 1000	TERMITE CONTROL WORKS	₱ 55,786.84	₱ 139,447.01	₱ 5,582.70	₱ 200,816.55
ITEM 1001	STORM DRAINAGE AND SEWERAGE	₱ 79,645.26	₱ 199,082.99	₱ 22,729.95	₱ 301,458.20
ITEM 1002	PLUMBING WORKS	₱ 80,141.37	₱ 210,578.37	₱ 498,850.44	₱ 789,570.18
ITEM 1003	CARPENTRY AND JOINERY WORKS	₱ 325,583.94	₱ 813,842.66	₱ 32,581.83	₱ 1,172,008.44
ITEM 1006	STEEL DOORS AND FRAMES	₱ 175,091.89	₱ 437,729.73	₱ 55,978.58	₱ 668,800.21
ITEM 1007	ALUMINUM FRAMED GLASS DOORS	₱ 175,091.89	₱ 437,729.73	₱ 55,978.58	₱ 668,800.21
ITEM 1008	ALUMINUM GLASS WINDOWS	₱ 279,095.23	₱ 656,577.22	₱ 14,924.37	₱ 950,596.82
ITEM 1010	WOODEN DOORS AND WINDOWS	₱ 118,383.72	₱ 318,940.70	₱ -	₱ 437,324.42
ITEM 1012	GLASS AND GLAZING	₱ 167,619.83	₱ 418,989.25	₱ 16,774.05	₱ 603,383.14
ITEM 1013	CORRUGATED METAL ROOFING	₱ 22,236.94	₱ 55,584.34	₱ 2,225.29	₱ 80,046.57
ITEM 1014	PREPAINTED METAL SHEETS	₱ 177,201.16	₱ 358,163.15	₱ 17,697.99	₱ 553,062.31
ITEM 1016	WATERPROOFING	₱ 181,041.53	₱ 397,181.19	₱ -	₱ 578,222.72
ITEM 1018	CERAMIC/GRANITE TILES	₱ 775,568.78	₱ 1,624,848.64	₱ 64,836.17	₱ 2,465,253.60
ITEM 1021	CEMENT FLOOR FINISH	₱ 98,004.93	₱ 205,324.39	₱ 8,193.04	₱ 311,522.36
ITEM 1027	CEMENT PLASTER FINISH/DECORATIVE STONE	₱ 407,535.18	₱ 726,605.97	₱ 17,738.95	₱ 1,151,880.11
ITEM 1032	PAINTING, VARNISHING, AND OTHER RELATED WORKS	₱ 269,667.45	₱ 674,071.54	₱ 26,986.16	₱ 970,725.14
ITEM 1033	METAL DECK	₱ 356,297.51	₱ 975,812.07	₱ 61,310.48	₱ 1,393,420.06
ITEM 1038	REFLECTIVE INSULATION	₱ 51,496.14	₱ 124,042.46	₱ 5,149.61	₱ 180,688.22
ITEM 1039	ALUMINUM CLADDING	₱ 216,422.64	₱ 521,312.78	₱ 21,642.26	₱ 759,377.69
ITEM 1043	PVC DOORS AND FRAMES	₱ 28,549.85	₱ 65,764.82	₱ 5,860.23	₱ 100,174.90
ITEM 1045	ALUMINUM PANEL	₱ 172,091.67	₱ 414,529.59	₱ 17,209.17	₱ 603,830.43
ITEM 1046	MASONRY WORKS	₱ 243,041.46	₱ 607,603.66	₱ 9,374.21	₱ 860,019.33
ITEM 1047	METAL STRUCTURES	₱ 468,564.30	₱ 1,027,911.29	₱ 1,119,740.48	₱ 2,616,216.06
ITEM 1051	RAILINGS	₱ 134,007.83	₱ 335,019.57	₱ 209,836.98	₱ 678,864.37
ITEM 1100	CONDUITS, BOXES, & FITTINGS (CONDUIT WORKS/CONDUIT ROUGH-IN)	₱ 56,511.15	₱ 93,984.58	₱ -	₱ 150,495.73
ITEM 1101	WIRES AND WIRING DEVICES	₱ 176,029.53	₱ 704,118.13	₱ -	₱ 880,147.66
ITEM 1102	POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS, AND OTHER OVERCURRENT PROTECTION DEVICES	₱ 196,204.54	₱ 1,765,840.83	₱ -	₱ 1,962,045.36
ITEM 1103	LIGHTING FIXTURES AND LAMPS	₱ 93,540.72	₱ 685,965.29	₱ -	₱ 779,506.02
ITEM 1104	AUXILIARY SYSTEM	₱ 98,774.67	₱ 523,486.13	₱ 31,443.16	₱ 653,703.96
ITEM 1106	CCTV SYSTEM	₱ 88,769.87	₱ 371,045.62	₱ 18,212.88	₱ 478,028.37
ITEM 1200	AIRCONDITIONING AND VENTILATING SYSTEM	₱ 60,361.65	₱ 1,146,871.36	₱ -	₱ 1,207,233.01
ITEM 1201	WATER PUMPING SYSTEM	₱ 46,533.28	₱ 103,962.45	₱ -	₱ 150,495.73
ITEM 1202	FIRE PROTECTION SPRINKLER SYSTEM (AFSS)	₱ 172,386.56	₱ 420,075.34	₱ 10,921.23	₱ 603,383.14

ITEM 1203	ELECTRIC ELEVATOR	₱ -	₱ 4,100,680.35	₱ -	₱	4,100,680.35
ITEM 1208	FIRE ALARM SYSTEM	₱ 72,820.28	₱ 322,001.55	₱ 7,278.01	₱	402,099.84
ITEM 1705	FILL AND BACKFILL	₱ 151,423.49	₱ 273,195.17	₱ 747,389.78	₱	1,172,008.44
ITEM 1728	SUPPLY AND DELIVERY	₱ -	₱ 1,182,072.60	₱ -	₱	1,182,072.60
					₱	**50,320,823.24**

SUMMARY

A	TOTAL MATERIAL COST	₱ 31,274,314.80
B	TOTAL LABOR COST	₱ 9,743,035.57
C	TOTAL EQUIPMENT COST	₱ 9,303,472.88
D	CONTINGENCIES	₱ 5,032,082.32
E	CONTRACTOR'S PROFIT	₱ 4,025,665.86
F	MOBILIZATION/DEMOBILIZATION	₱ 680,000.00
G	VAT	₱ 7,125,428.57
1.2% ADMIN COST		₱ 816,000.00
TOTAL PROJECT COST		₱ **68,000,000.00**

Estimated by:

Engr. Jan Carl Louin R. Tuazon
Engineer I

Recommeding Approval By:

Arch. Joseph Andrew L. Sahial, Uap
Director-PPES/University Architect

Approved by:

Ma. Carla A. Cornotorena, RN,Ph.D
University President