

Approved by:

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LINE AND GRADE

GEODETIC

ARCHITECTURAL

CIVIL

STRUCTURAL

ELECTRICAL

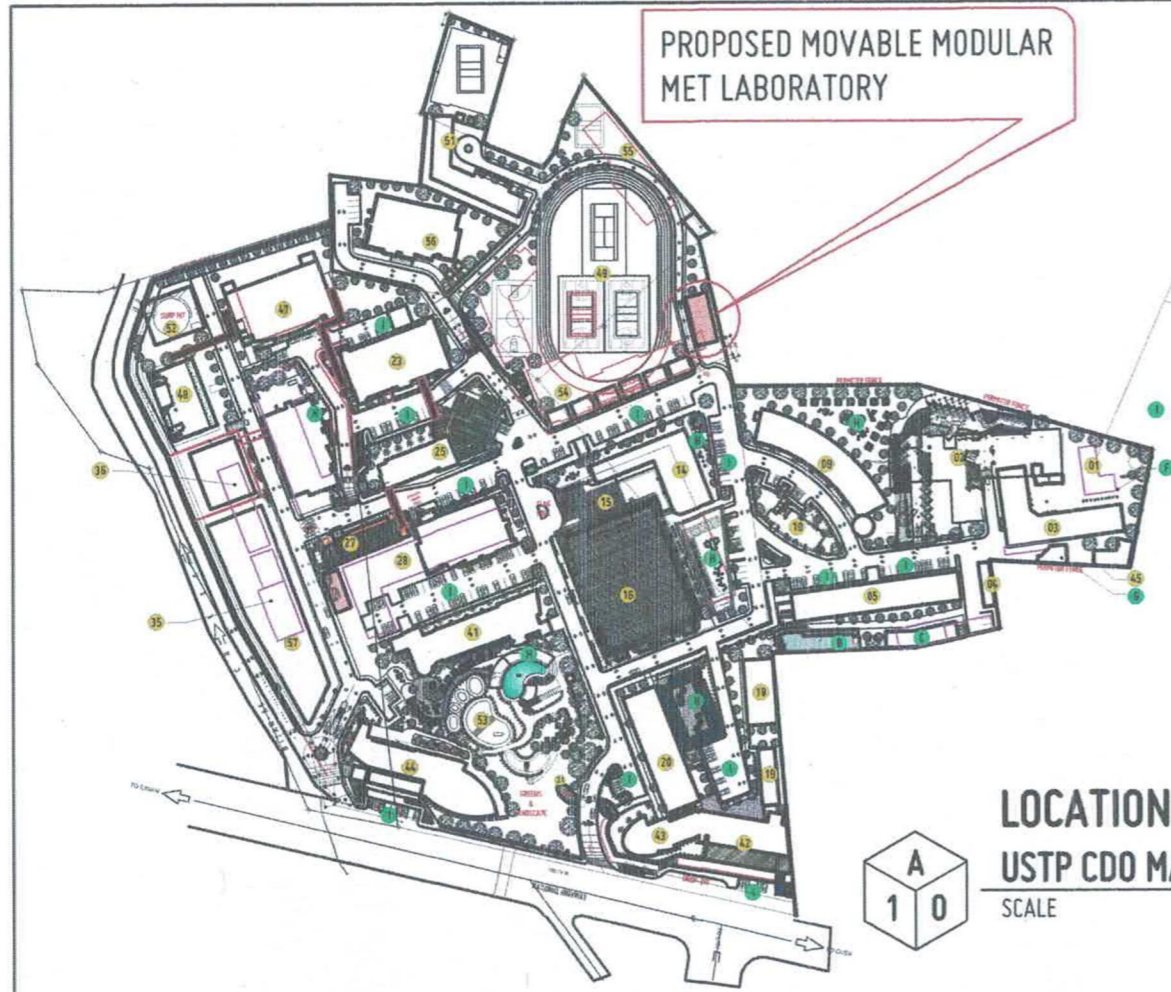
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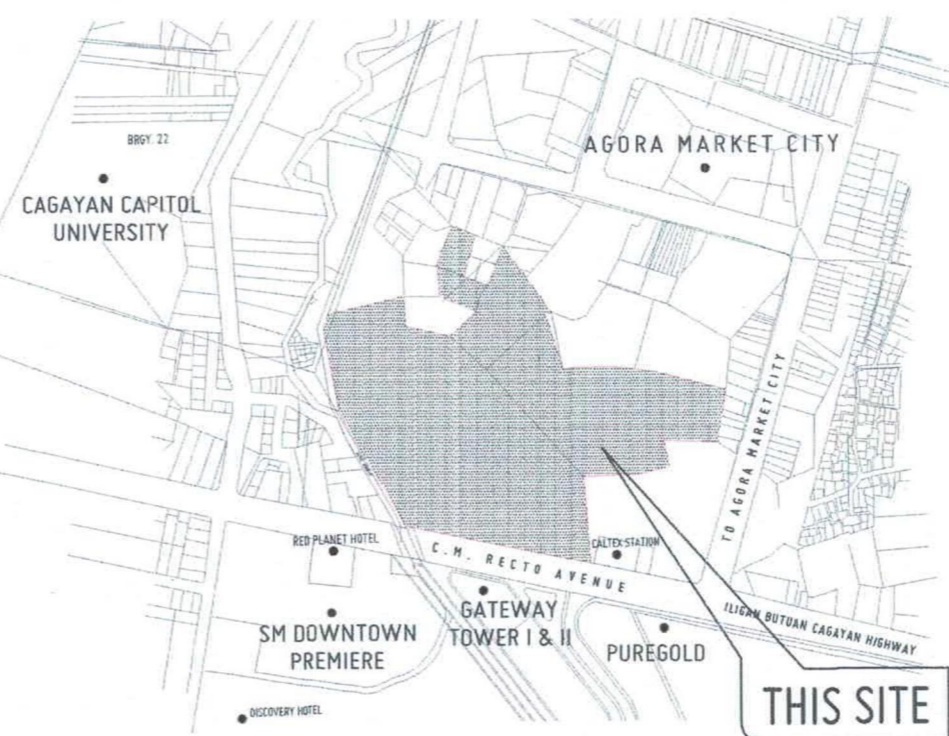
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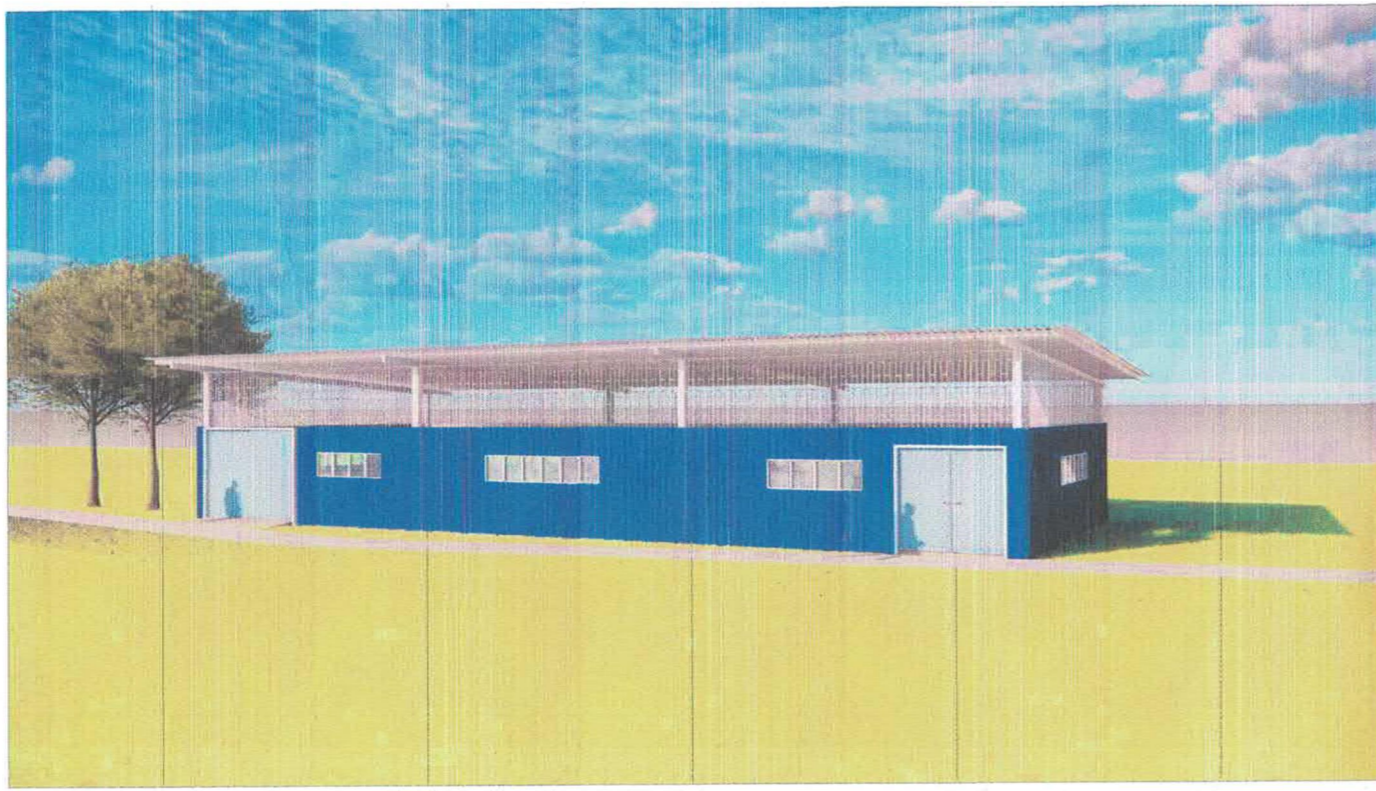
FIRE



LOCATION MAP
USTP CDO MASTER PLAN
SCALE 1:2500 MTS



VICINITY MAP
SCALE NOT TO SCALE



EXTERIOR PERSPECTIVE
SCALE NOT TO SCALE



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UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
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ENGR. GRACE C. BABA
DESIGNER
PRC NO. 98959 PTR NO. 8020689 A
DATE: JULY 3, 2024
PLACE: CDO

PROJECT
PROPOSED MOVABLE MODULAR MET LABORATORY
LOCATION
USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. DIONEL O. ALBINA
CHANCELLOR, USTP CAGAYAN DE ORO

RECOMMENDING APPROVAL:
ATTY. ERWIN B. BOSCH
VP FOR ADMINISTRATION & LEGAL AFFAIRS

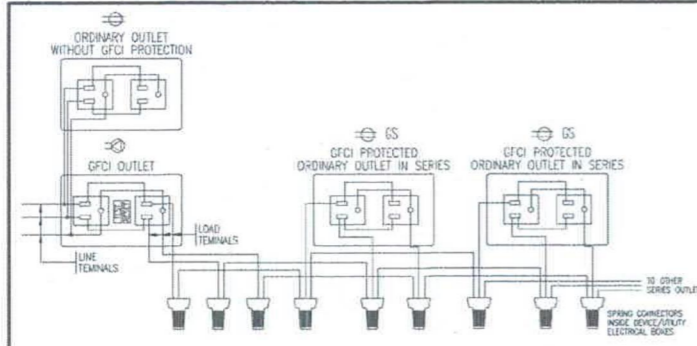
APPROVED BY:
DR. AMBROSIO J. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
LOCATION MAP
VICINITY MAP
EXTERIOR PERSPECTIVE

DRAWN BY:
DATE DRAWN:
PWT:



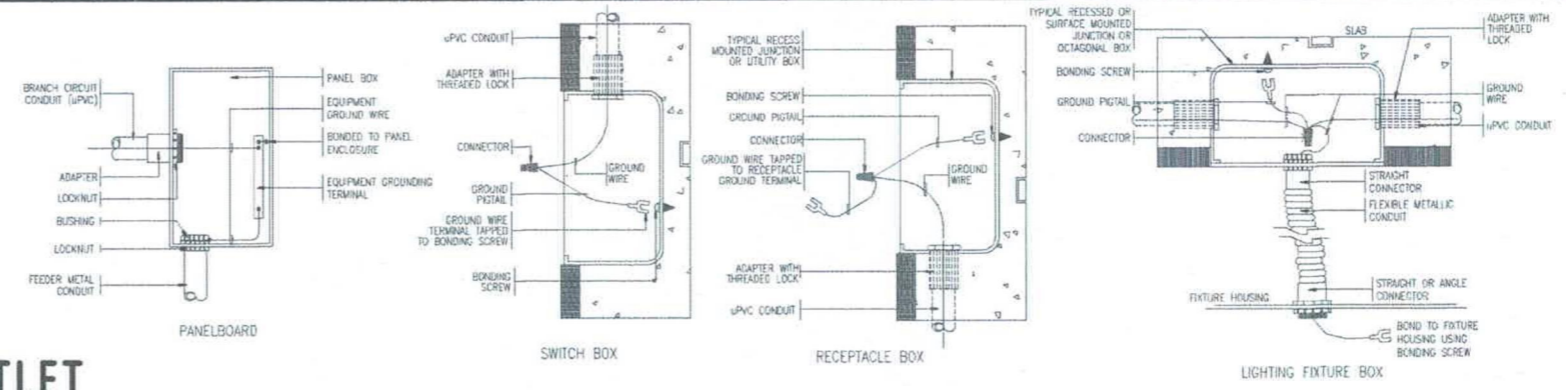
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CONV. OUTLET IN SERIES WITH GCFI OUTLET WIRING CONNECTION DETAIL



SCALE: NTS



TYPICAL GROUNDING CONNECTION DETAILS

SCALE: NTS

SCHEDULE OF LOADS

PROJECT: PROPOSED MODULAR MOVABLE MET
ADDRESS: CM RECTO, AVENUE, LAPASAN, CAGAYAN DE ORO CITY

DATE: 08-Jul-24
FEEDER: 1

Ckt No.	CB POLE	CB TRIP	AF	LOAD DESCRIPTION	KW	AB AMPS	BC AMPS	CA AMPS	3 AMPS	FEEDER/CIRCUIT WIRES (SQMM)					
										NO. OF SETS	THHN/THWN			CONDUIT	TYPE
1	2	15	63	PBa-C1 LIGHTING OUTLET	0.84	3.55				1	60	30	90	PVC	
				24-1x32 Watts LED Fluorescent Lig	0.768										
				6-12 Watts LED Pin Light	0.072										
2	2	20	63	PBa-C2 CONVENIENCE OUTLET	0.54	2.35								PVC	
				3-Simplex Universal Convenience O	0.54										
3	2	20	63	PBa-C3 CONVENIENCE OUTLET	1.44			6.26						PVC	
				4-Duplex Universal Convenience Ou	1.44										
4	2	30	63	PBa-C4 SPECIAL PURPOSE OUTLET	5			21.74						PVC	
				1- Industrial Socket	5										
5	2	30	63	PBa-C5 SPECIAL PURPOSE OUTLET	5		21.74							PVC	
				1- Industrial Socket	5										
6	2	30	63	PBa-C6 SPECIAL PURPOSE OUTLET	5		21.74							PVC	
				1- Industrial Socket	5										
7	2	30	63	PBa-C7 SPECIAL PURPOSE OUTLET	5	21.74								PVC	
				1- Industrial Socket	5										
8	2	30	63	PBa-C8 SPECIAL PURPOSE OUTLET	5	21.74								PVC	
				1- Industrial Socket	5										
9	2	30	63	PBa-C9 SPECIAL PURPOSE OUTLET	5			21.74						PVC	
				1- Industrial Socket	5										
10	2	30	63	PBa-C10 SPECIAL PURPOSE OUTLET	5			21.74						PVC	
				1- Industrial Socket	5										
11	2	30	63	PBa-C11 SPECIAL PURPOSE OUTLET	5		21.74							PVC	
				1- Industrial Socket	5										
12	2	30	63	PBa-C12 SPECIAL PURPOSE OUTLET	5		21.74							PVC	
				1- Industrial Socket	5										
13	2	30	63	PBa-C13 SPECIAL PURPOSE OUTLET	5	21.74								PVC	
				1- Industrial Socket	5										

NO. OF SETS	N	Y	X	G	TYPE	NO. OF SETS	N	Y	X	G	TYPE	NO. OF SETS	N	Y	X	G	TYPE	NO. OF SETS	N	Y	X	G	TYPE	NO. OF SETS	N	Y	X	G	TYPE
1	60				PVC	1	60				PVC	1	60				PVC	1	60				PVC	1	60				PVC

AVE P.F.	KW	DEMAND FACTOR	DEMAND KW	POWER FACTOR	DEMAND AMPS	% SPARE	TOTAL AMPERES
0.80							
BEST MOTOR	0.84	0.8	0.67	1	1.69	25.00	2.11
LIGHTS	1.98	0.8	1.58	0.85	4.68	25.00	5.85
C.O.							
WATER HEATER	0	0	0	0	0	0	0
RANGE	0	0	0	0	0	0	0
CLOTHES DRYER	0	0	0	0	0	0	0
WASH MACHINE	0	0	0	0	0	0	0
AIRC ON	0	0	0	0	0	0	0
MOTOR (CENT)	0	0	0	0	0	0	0
MOTOR (NON-CENT)	0	0	0	0	0	0	0
WELDING MACHINE	100	0.8	80.00	0.85	226.54	25.00	295.67
OTHERS 1	0	0	0	0	0	0	0
OTHERS 2	0	0	0	0	0	0	0
OTHERS 3	0	0	0	0	0	0	0
TOTAL	102.82	0.80	82.26		242.91		303.64

PHASE WIRE SQMM (AWG)	AMPS	GROUND WIRE SQMM (AWG)	2-WIRE + GROUND uPVC		3-WIRE + GROUND uPVC		4-WIRE + GROUND uPVC		2-WIRE + GROUND METAL		3-WIRE + GROUND METAL		4-WIRE + GROUND METAL	
			CODE	SIZE mm φ	CODE	SIZE mm φ	CODE	SIZE mm φ	CODE	SIZE mm φ	CODE	SIZE mm φ	CODE	SIZE mm φ
3.5(12)	25	3.5(12)	XGP3.5	20	YGP3.5	20	NYGP3.5	20	XGM3.5	15	YGM3.5	15	NYGM3.5	15
5.5(16)	30	5.5(16)	XGP5.5	20	YGP5.5	32	NYGP5.5	32	XGM5.5	15	YGM5.5	20	NYGM5.5	20
8.0(18)	40	5.5(16)	XGP8.0	25	YGP8.0	32	NYGP8.0	32	XGM8.0	20	YGM8.0	25	NYGM8.0	25
14(18)	55	5.5(16)	XGP14	32	YGP14	32	NYGP14	32	XGM14	25	YGM14	25	NYGM14	32
22(24)	70	8.0(18)	XGP22	32	YGP22	40	NYGP22	50	XGM22	25	YGM22	32	NYGM22	40
30(22)	90	8.0(18)	XGP30	40	YGP30	50	NYGP30	50	XGM30	32	YGM30	40	NYGM30	40
38(21)	100/125	8.0(18)	XGP38	40	YGP38	50	NYGP38	63	XGM38	32	YGM38	40	NYGM38	50
50(21/20)	145	14(18)	XGP50	50	YGP50	63	NYGP50	63	XGM50	40	YGM50	50	NYGM50	50
60(22/20)	160	14(18)	XGP60	50	YGP60	63	NYGP60	63	XGM60	40	YGM60	50	NYGM60	50
80(23/20)	195	14(18)	XGP80	50	YGP80	63	NYGP80	63	XGM80	40	YGM80	50	NYGM80	50
100(24/20)	220	22(24)	XGP100	63	YGP100	63	NYGP100	75	XGM100	50	YGM100	50	NYGM100	65
125(25/20)	255	22(24)	XGP125	63	YGP125	75	NYGP125	90	XGM125	50	YGM125	65	NYGM125	65
150(30/20)	280	22(24)	XGP150	63	YGP150	75	NYGP150	90	XGM150	50	YGM150	65	NYGM150	80
200(40/20)	330	30(22)	XGP200	75	YGP200	90	NYGP200	90	XGM200	65	YGM200	80	NYGM200	80
250(50/20)	375	30(22)	XGP250	90	YGP250	90	NYGP250	100	XGM250	80	YGM250	80	NYGM250	90
400(80/20)	485	30(22)	XGP400	100	YGP400	110	NYGP400	5"	XGM400	80	YGM400	90	NYGM400	100
500(100/20)	450	38(21)	XGP500	110	YGP500	5"	NYGP500	5"	XGM500	90	YGM500	100	NYGM500	-

NOTES:
 X - TWO WIRES (L-R OR L-N), THHN/THWN
 Y - THREE WIRES (THREE PHASE), THHN/THWN
 N - NEUTRAL WIRE, SAME SIZE AS PHASE WIRE OR AS NOTED IN THE PANEL SCHEDULE
 G - GROUND WIRE, REFER SIZE TO PEC FOR PARALLEL RUNS
 M - METAL CONDUIT, IMC, RSC OR EMT
 P - uPVC CONDUIT



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PROFESSIONAL ELECTRICAL ENGINEER
 PROJECT: PROPOSED MOVABLE MODULAR MET LABORATORY
 LOCATION: USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
 OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
 ENGR. GRACE C. BABA
 DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
 ATTY. DIONEL O. ALBINA
 CHANCELLOR, USTP CAGAYAN DE ORO

RECOMMENDING APPROVAL:
 ATTY. ERWIN B. BUCIO
 VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
 DR. AMBROSIO B. CULTURA II
 PRESIDENT, USTP SYSTEMS

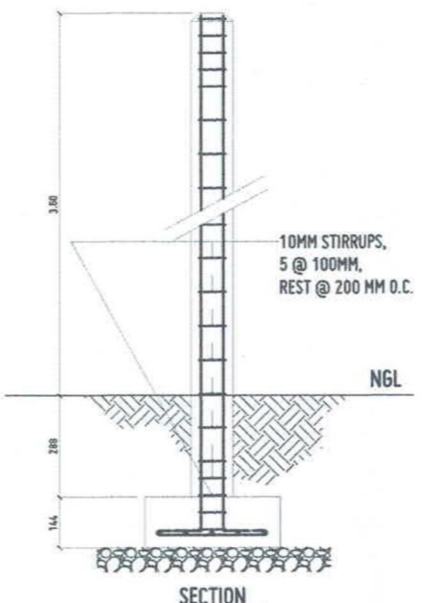
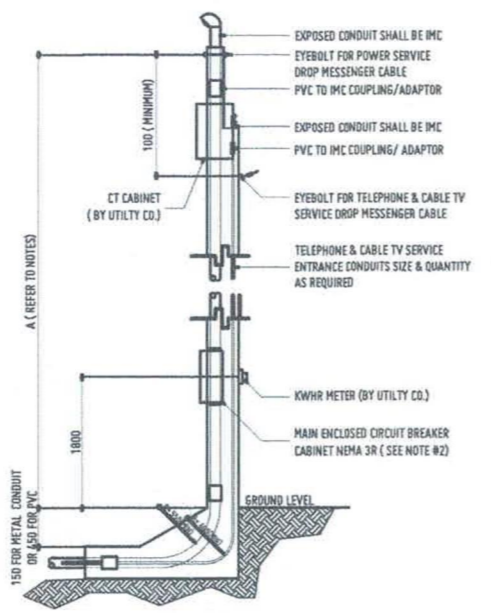
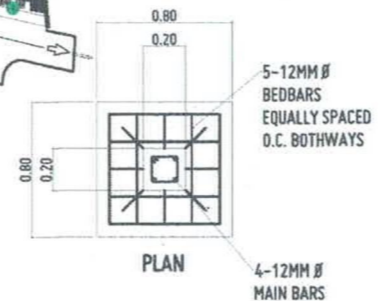
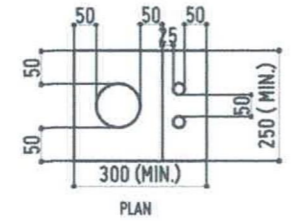
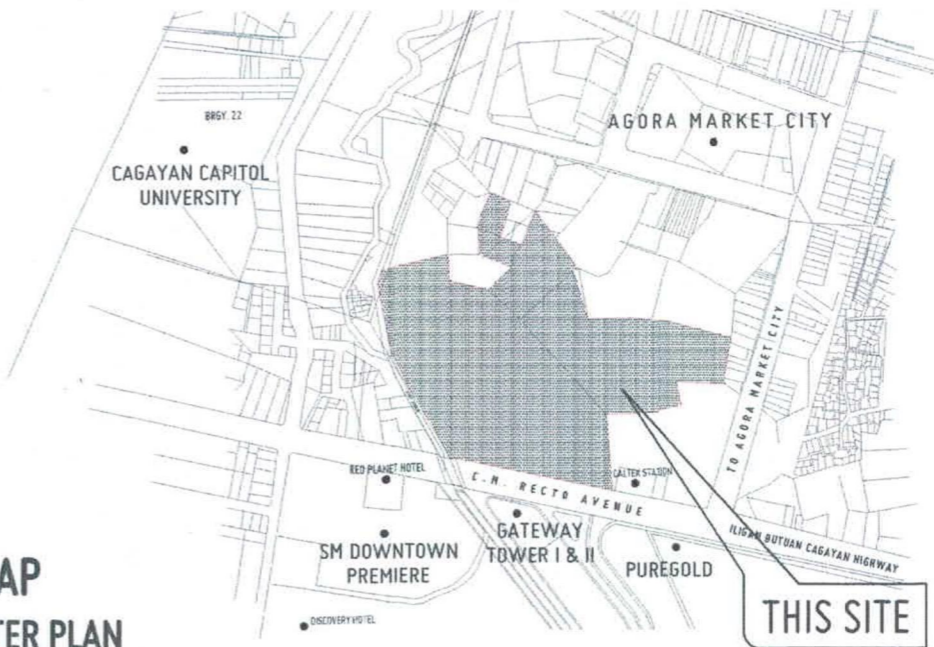
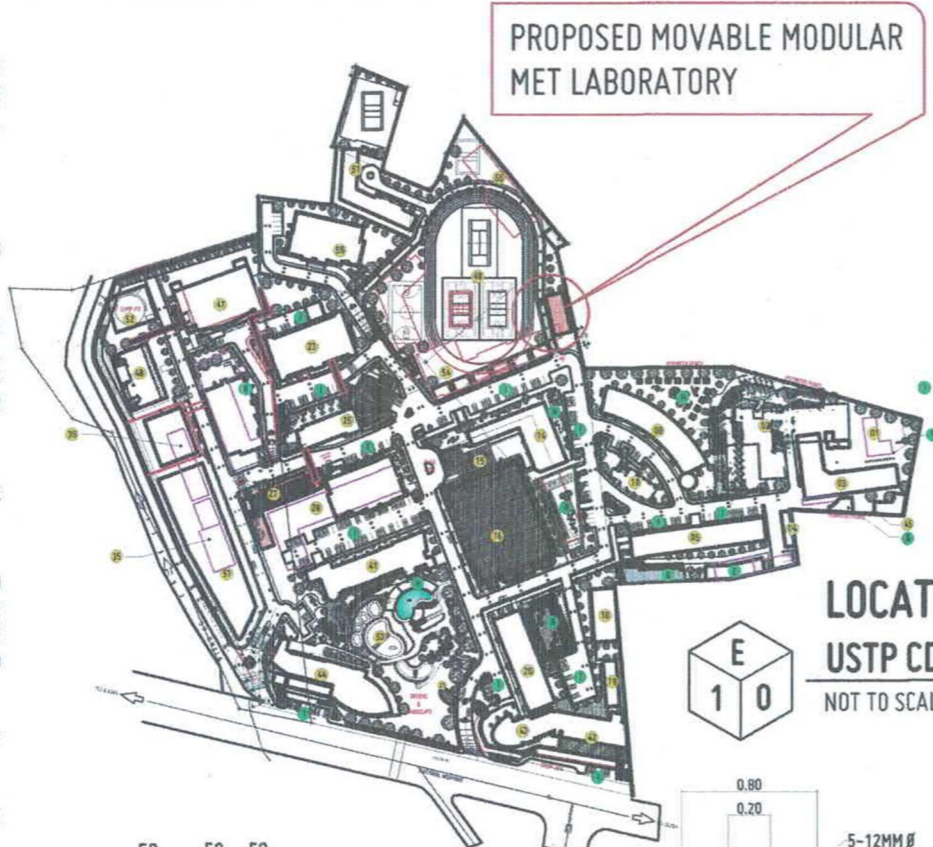
SHEET CONTENTS:
 *TYPICAL GROUNDING CONNECTION DETAILS
 *CONV. OUTLET IN SERIES WITH GCFI OUTLET WIRING CONNECTION DETAIL
 *SCHEDULE OF LOADS

DATE DRAWN:
 FMT:

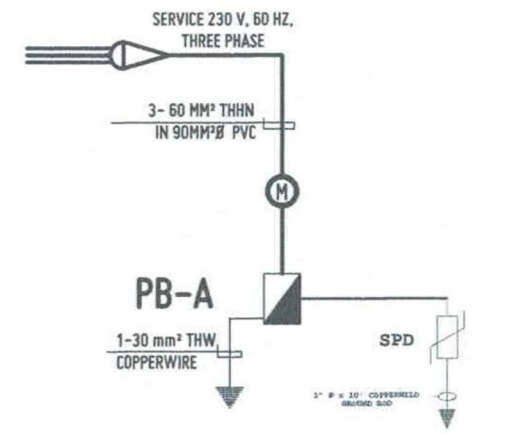
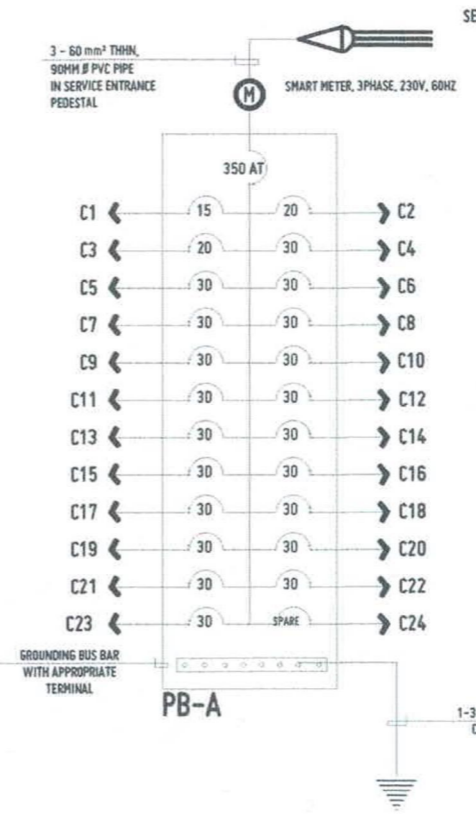


GENERAL NOTES:

- ALL WORKS SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES & REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITY CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND THE REGULATIONS OF THE UTILITY COMPANY CONCERNED.
- POWER SERVICE TO THE BUILDING SHALL BE 230 VOLTS 3 PHASE 3 WIRE & GROUND.
- SMALLEST CONDUCTOR FOR POWER AND LIGHTING SHALL BE 3.5mm² THHN AND SMALLEST RACEWAY SHALL BE 15mm DIA. TRADE SIZE. CONDUCTOR SHALL BE TYPE THHN EXCEPT AS OTHERWISE REQUIRED BY THE DRAWING AND INSULATED FOR 600 VOLTS.
- GROUNDING WIRE SHALL BE PROVIDED TO ALL EQUIPMENTS, OUTLETS AND LIGHTING CIRCUITS AND ALL NON-CURRENT CARRYING METAL PARTS.
- MATERIALS AND EQUIPMENT TO BE USED SHALL BE NEW AND OF APPROVED TYPE. FOR BOTH LOCATION AND PURPOSE INTENDED, SUBMIT SAMPLES OF MATERIALS TO THE ARCHITECT/ DESIGN ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- NO BRANCH CKT. SHALL HAVE A LOAD OF MORE THAN 80% OF ITS RATING
- CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. USE ONLY ONE BRAND ALL THROUGHOUT.
- MOUNTING HEIGHT SHALL BE AS FOLLOWS:
 - LIGHT CONTROL SWITCH - 1.52 ABOVE FINISHED FLOOR
 - CONVENIENCE OUTLET - 0.30 ABOVE FINISHED FLOOR
 - SPECIAL PURPOSE OUTLET - 0.30 ABOVE FINISHED FLOOR OR AS REQUIRED BY THE ARCHITECT
 - PANEL BOARDS, FIRE ALARM-PANE 1.80 FROM TOP OF PANEL TO FINISHED FLOOR
- ALL WORKS SHALL BE COORDINATED WITH THE ARCHITECT AND OTHER TRADE DISCIPLINE PRIOR TO INSTALLATION.
- CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ELECTRICAL ENGINEER.
- CONTRACTOR TO PERFORM ALL TEST NECESSARY BUT NOT LIMITED TO THE FOLLOWING.
 - CABLE INSULATION INTEGRITY TEST
 - PHASE SEQUENCE TEST
 - LOAD TEST
 - COMPLETE TEST FOR TRANSFORMER
- ALL WIRES SHALL BE COLOR CODED AS FOLLOWS:
 - PHASE - A - BLACK
 - GROUND - GREEN
 - PHASE - B - RED
 - PHASE - C - BLUE
- NO CHANGE OR MODIFICATION SHALL BE MADE ON THESE PLANS WITHOUT THE ENGINEER'S/OWNER'S WRITTEN COMMENT.
- ALL MOTORS AND AIR-CONDITIONING UNITS MUST HAVE INDIVIDUAL ENCLOSED CIRCUIT BREAKER



E 1 2 **SERVICE PEDESTAL DETAIL**
SCALE: NTS



E 1 1 **RISER DIAGRAM**
NOT DRAWN TO SCALE



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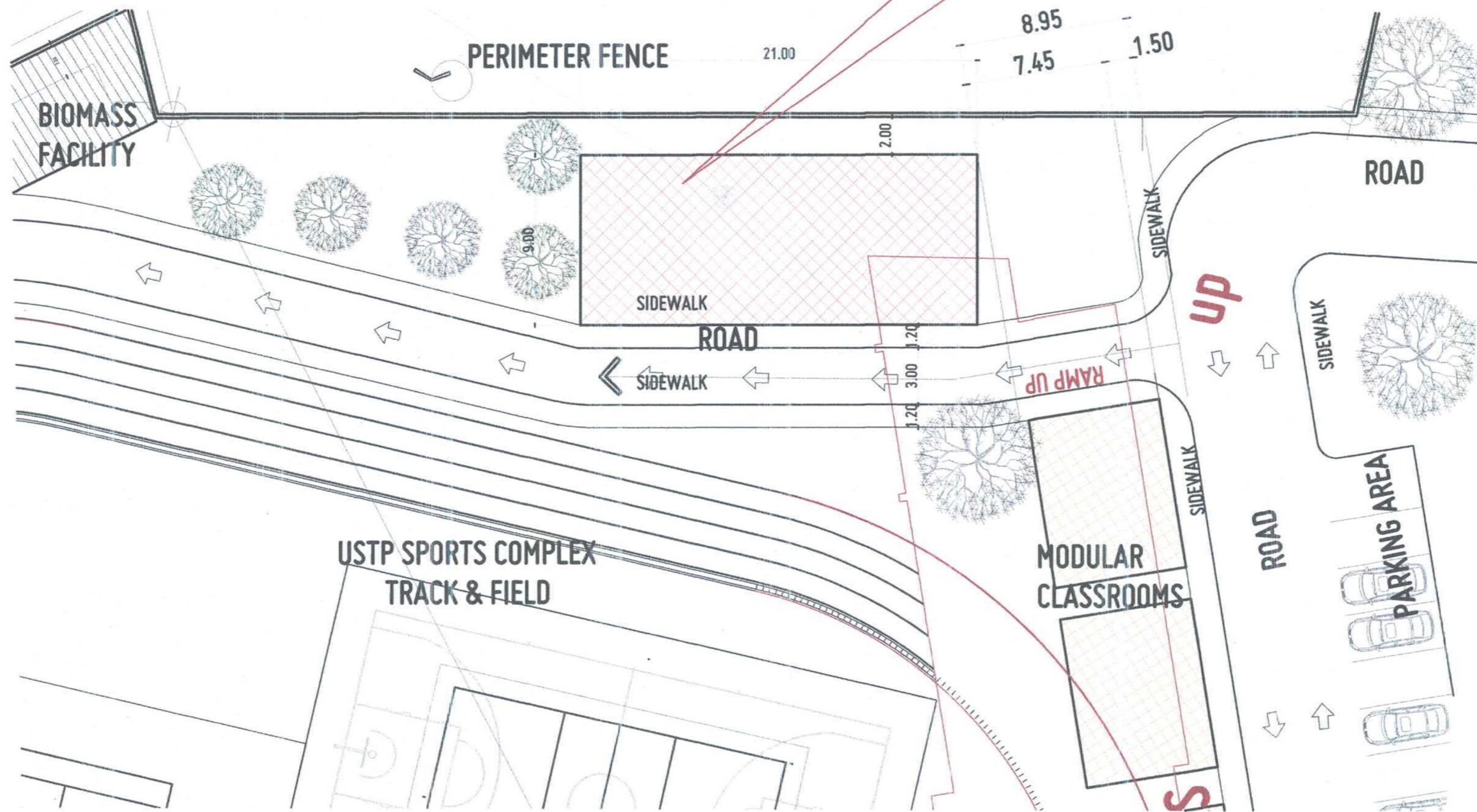
PROFESSIONAL ELECTRICAL ENGINEER	PROJECT	PROPOSED MOVABLE MODULAR MET LABORATORY
PRC NO.	LOCATION	USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
DATE	OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES
TH NO.	PLACE	

RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:
ENGR. GRACE C. BABA	ATTY. DIONEL O. ALBINA	ATTY. ERWIN B. BUENI	DR. AMPROSIO B. CULTURA II
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM

SHEET CONTENTS:	DRAWN BY:
*LOCATION MAP *VICINITY MAP *SCHEMATIC DIAGRAM *RISER DIAGRAM *GENERAL NOTES	DATE DRAWN:
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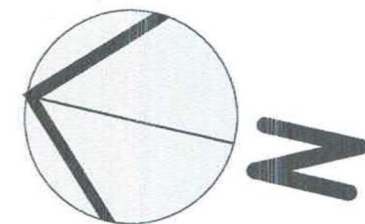


THIS SITE



SITE DEVELOPMENT PLAN

SCALE 1:250 MTS



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UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
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ENGR. GRACE C. BABA	
DESIGNER	PROJECT
PRC NO. 98955	PTR NO. 6020689 A
DATE 02964984	LOCATION
TIN NO. 940-111-301	OWNER
PLACE CDO	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

PROPOSED MOVABLE MODULAR MET LABORATORY	
LOCATION	OWNER
USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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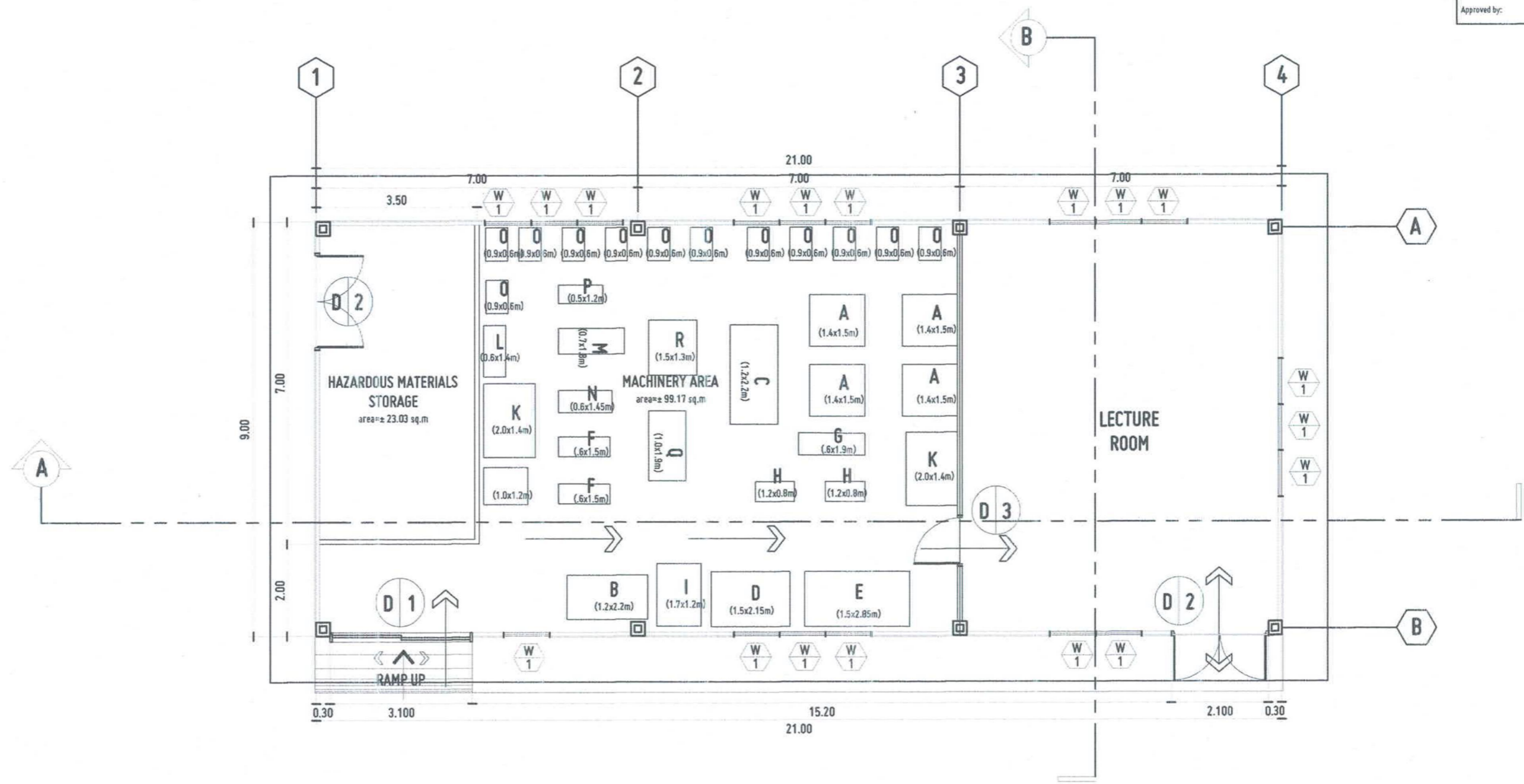
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APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SITE DEVELOPMENT PLAN
DRAWN BY:
DATE DRAWN:
PH:





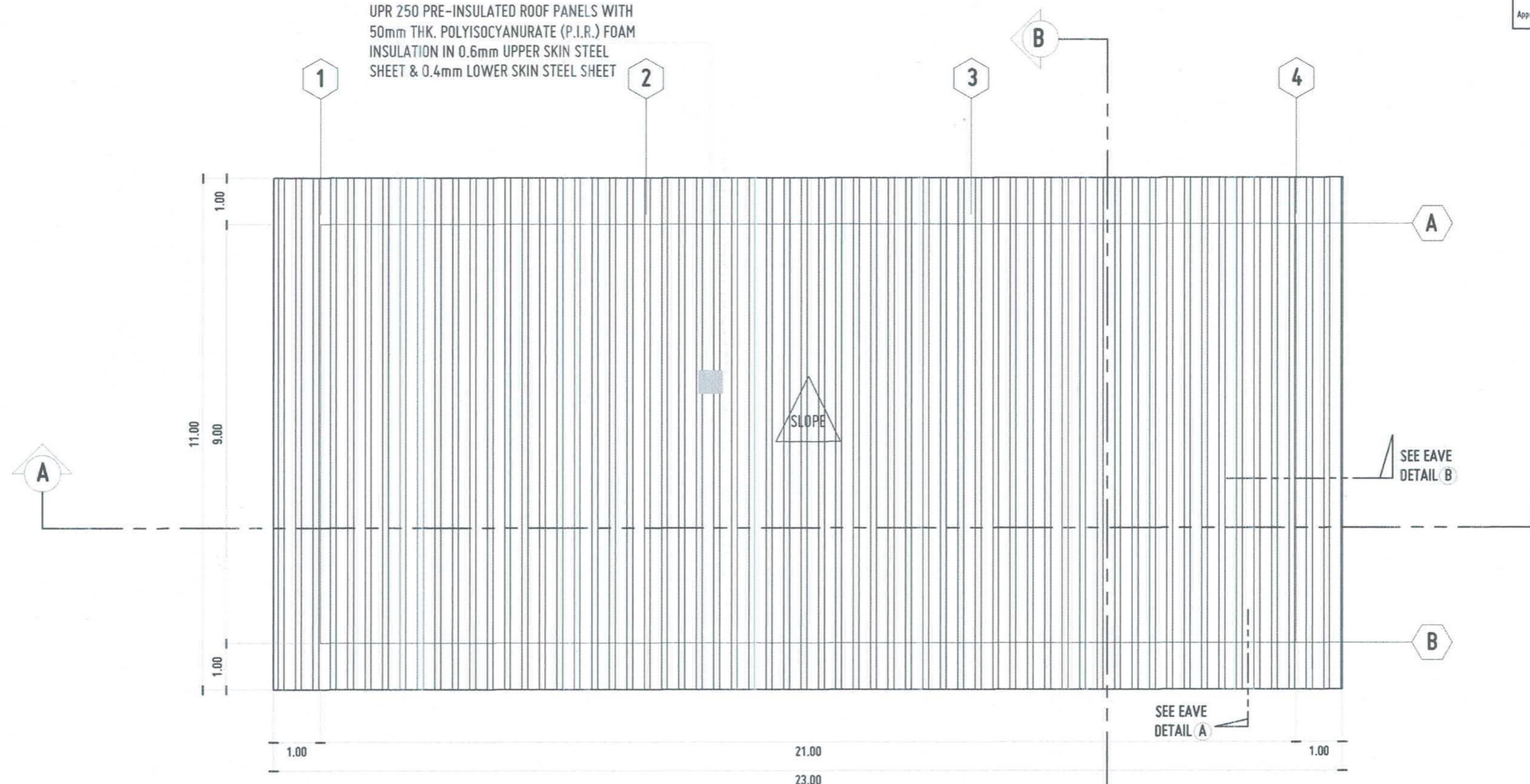
FLOOR PLAN
SCALE 1:100 MTS



REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9300 TELEPHONE # (08822) 72-60-66 / (088) 856-1738 / 856-1129 TELE FAX (088) 856-4896 WEBSITE: www.ustp.edu.ph		ENGR. GRACE C. BABA DESIGNER	PROJECT PROPOSED MOVABLE MODULAR MET LABORATORY	RECOMMENDING APPROVAL: ENGR. GRACE C. BABA	RECOMMENDING APPROVAL: ATTY. DIONEL O. ALBINA	RECOMMENDING APPROVAL: ATTY. ERWIN B. BUCIO	APPROVED BY: DR. AMBROSIO B. CULTURA II	SHEET CONTENTS: FLOOR PLAN	DRAWN BY: DATE DRAWN: PNT:
PRJ. NO. 98959 DATE JULY 3, 2024 TIN. NO. 940-111-301	PFR. NO. 6020689 A DATE JULY 3, 2024 PLACE CDD	LOCATION USTP CDD CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY	OWNER UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM		A2

Approved by:

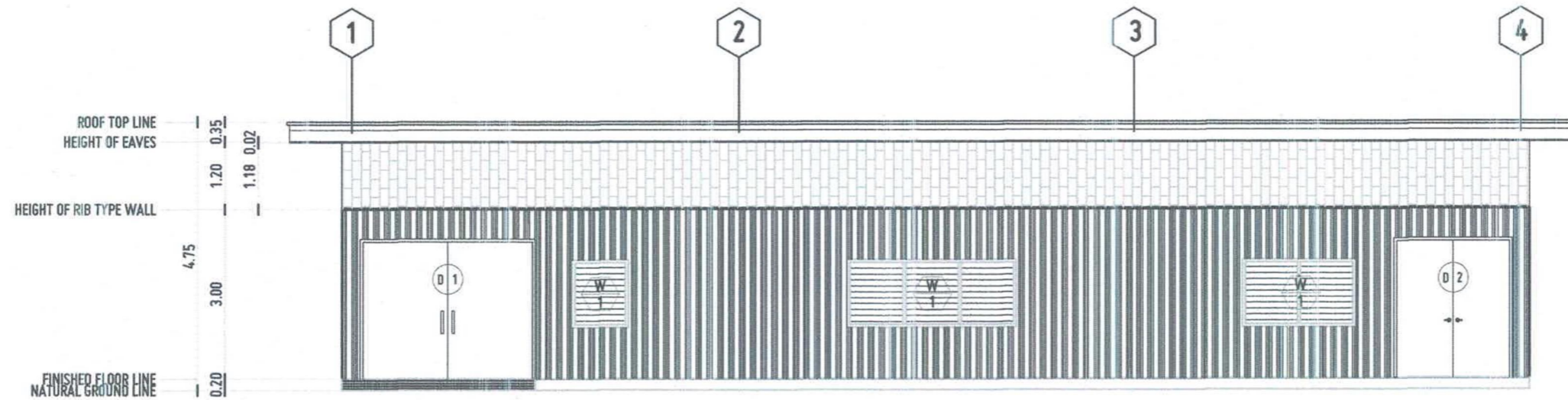
PRE-PAINTED WHITE RIB TYPE
UPR 250 PRE-INSULATED ROOF PANELS WITH
50mm THK. POLYISOCYANURATE (P.I.R.) FOAM
INSULATION IN 0.6mm UPPER SKIN STEEL
SHEET & 0.4mm LOWER SKIN STEEL SHEET



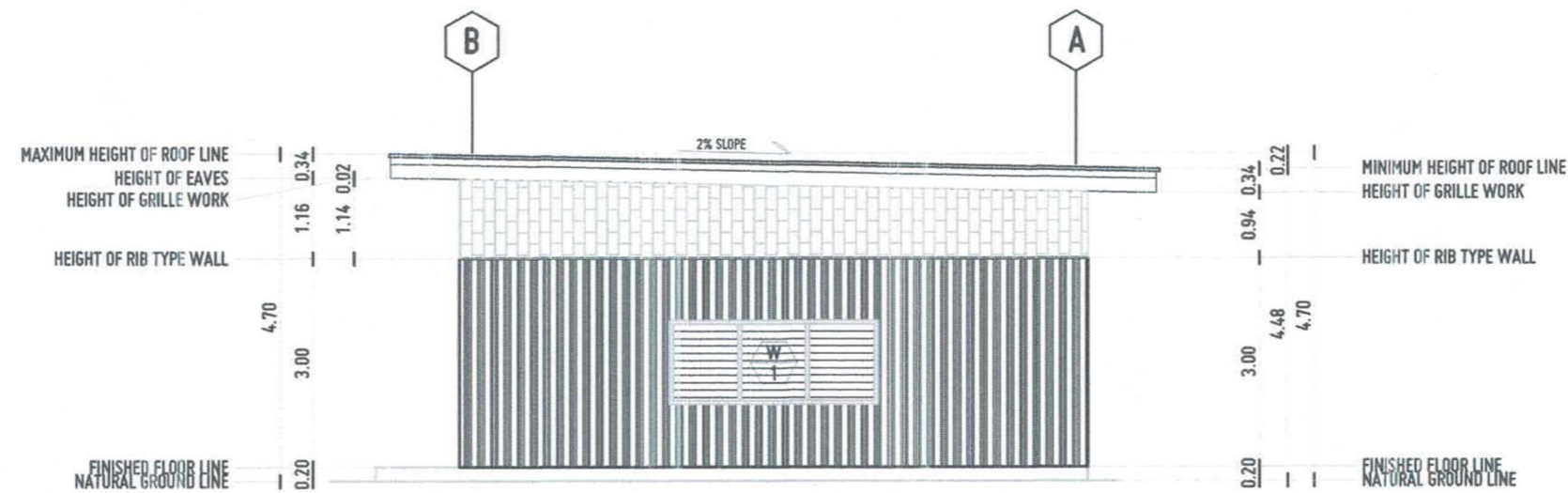
ROOF PLAN
SCALE 1:100 MTS



REPUBLIC OF THE PHILIPPINES UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES CAGAYAN DE ORO CAMPUS INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000 TELEPHONE # (08622) 72-60-65 / (086) 856-1728 / 856-1128 TELE FAX (086) 856-1695 WEBSITE: www.ustp.edu.ph		ENGR. GRACE C. BABA DESIGNER	PROJECT PROPOSED MOVABLE MODULAR MET LABORATORY	RECOMMENDING APPROVAL: ENGR. GRACE C. BABA	RECOMMENDING APPROVAL: ATTY. DIDMEL O. ALBINA	RECOMMENDING APPROVAL: ATTY. ERWIN B. BACIL	APPROVED BY: DR. AMBRASIO B. CULTURA II	SHEET CONTENTS: ROOF PLAN	DRAWN BY: DATE DRAWN: PWT:
PIC NO. 98959 DATE JULY 3, 2024 TIN NO. 940-111-301	PTH NO. 6020689 A PLACE CDO	LOCATION USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY	OWNER UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM		A3



FRONT ELEVATION
SCALE 1:100 MTS



RIGHT-SIDE ELEVATION
SCALE 1:100 MTS



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UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
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ENGR. GRACE C. BABA
DESIGNER
PRC NO. 98955 PTR NO. 6020689 A
02964984 DATE JULY 3, 2024
701 NO. 940-111-301 PLACE CDD

PROPOSED MOVABLE MODULAR MET LABORATORY
PROJECT
LOCATION USTP CDD CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
ATTY. DIONEL O. ALBINA
CHANCELLOR, USTP CAGAYAN DE ORO

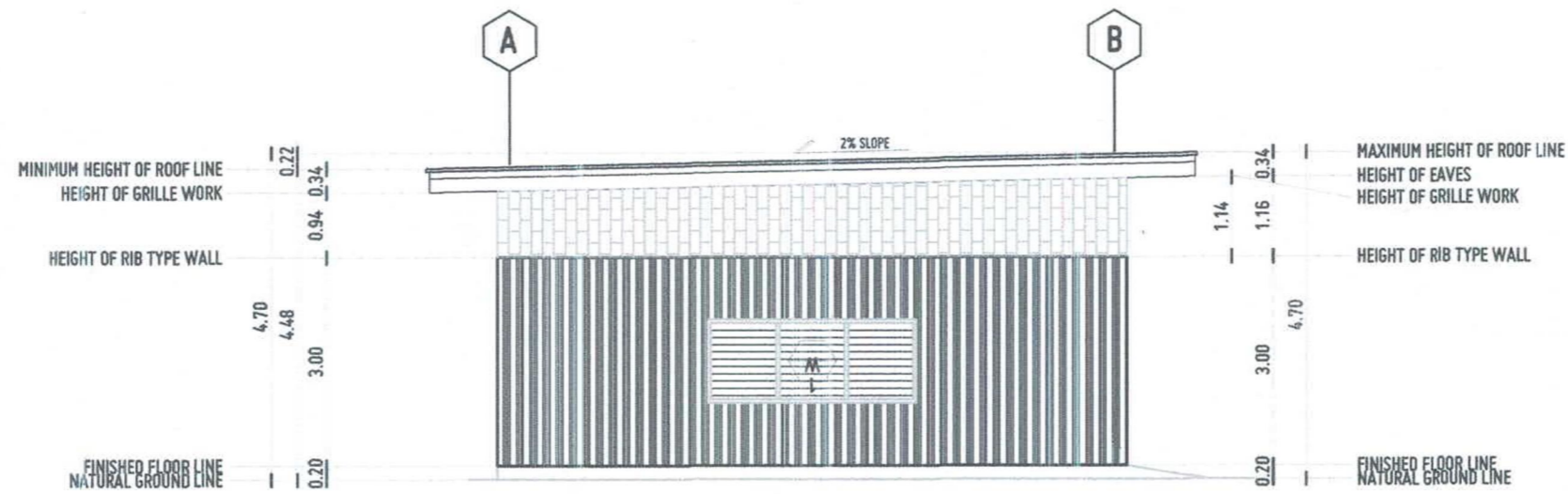
RECOMMENDING APPROVAL:
ATTY. ERWIN B. BULLIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBRONIO J. CULTURA II
PRESIDENT, USTP SYSTEM

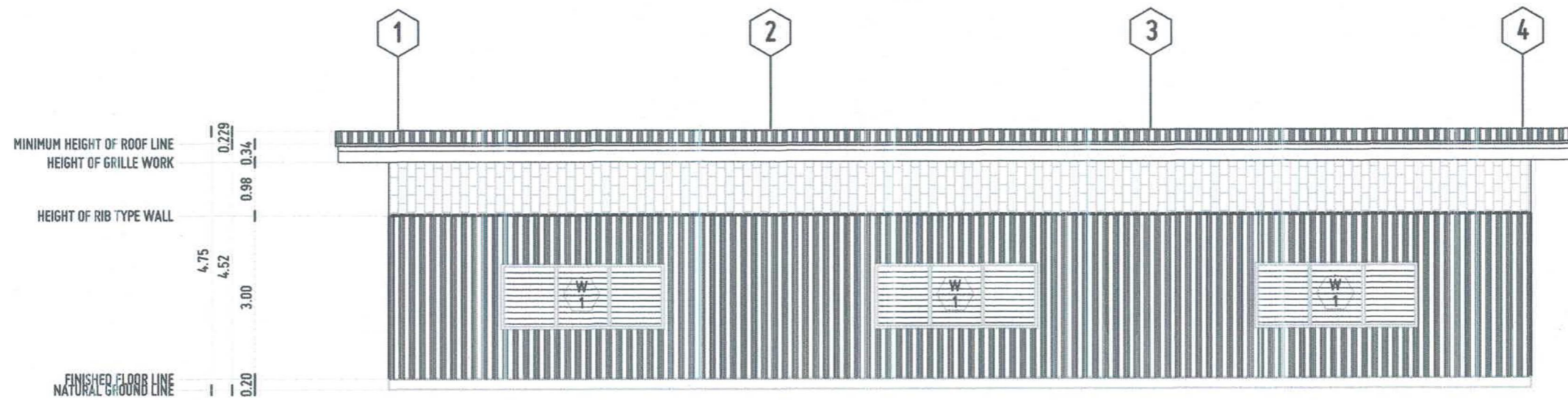
SHEET CONTENTS:
FRONT ELEVATION
RIGHT-SIDE ELEVATION
DRAWN BY:
DATE DRAWN:
PNT:

A4

Approved by:



LEFT-SIDE ELEVATION
SCALE 1:100 MTS



REAR ELEVATION
SCALE 1:100 MTS



REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
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DESIGNER
ENGR. GRACE C. BABA
PRC NO. 98959 PTR NO. 6020689 A
DATE JULY 3, 2024
TIN NO. 940-111-301 PLACE CDO

PROJECT
PROPOSED MOVABLE MODULAR MET LABORATORY
LOCATION
USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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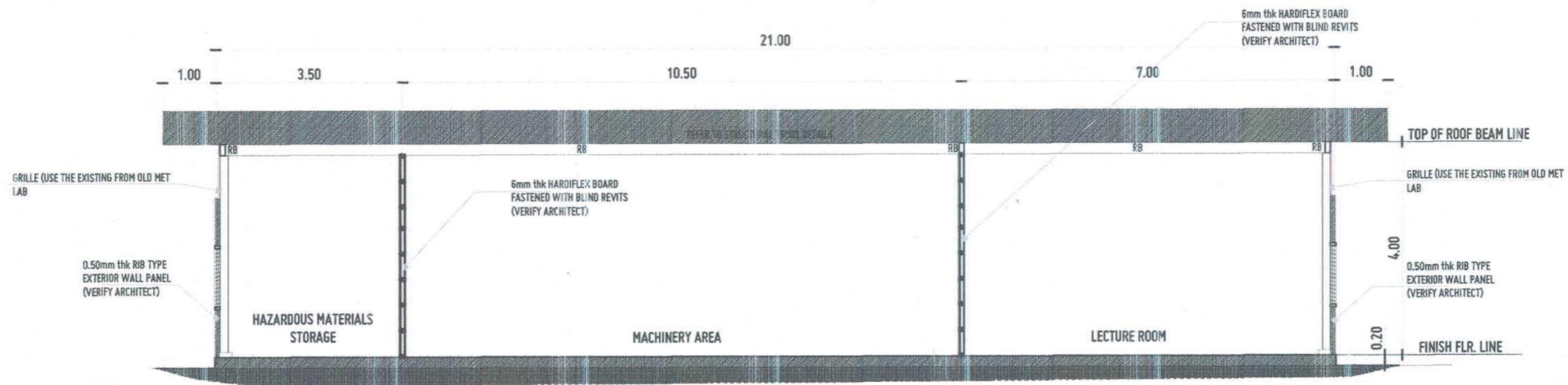
RECOMMENDING APPROVAL:
ATTY. ERWIN B. BUCAR
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBRAS B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
LEFT-SIDE ELEVATION
REAR ELEVATION
DRAWN BY:
DATE DRAWN:
PNT:

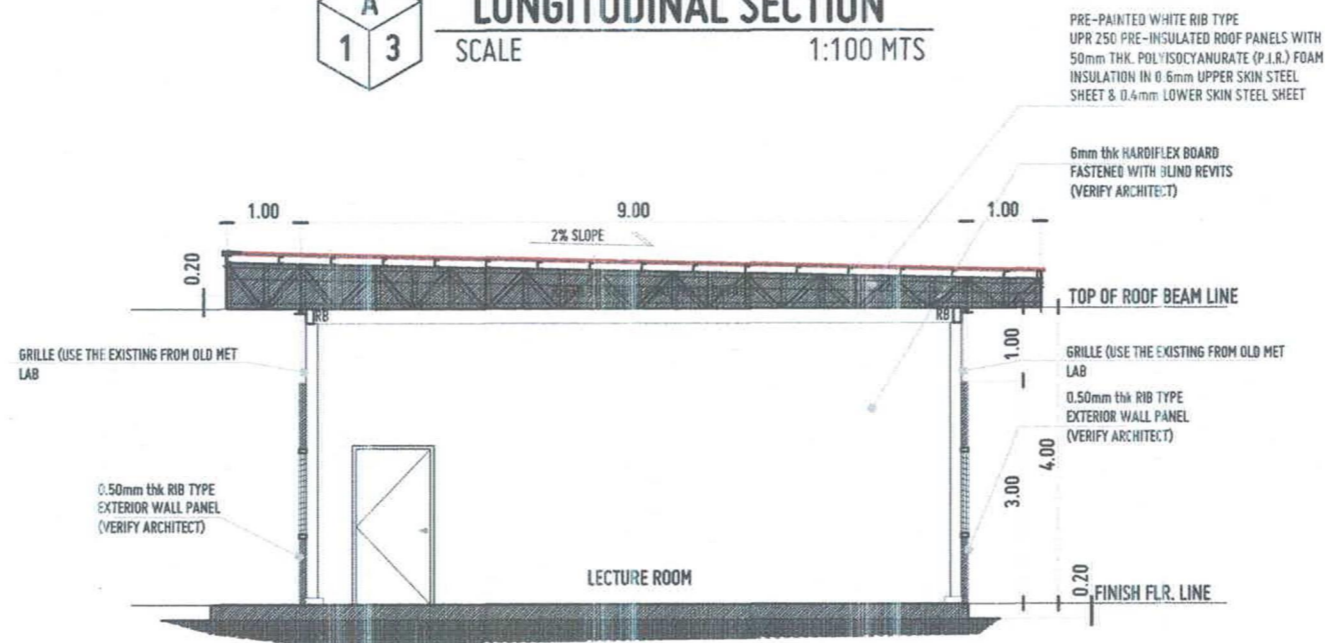
A5

Approved by:



LONGITUDINAL SECTION

SCALE 1:100 MTS



LONGITUDINAL SECTION

SCALE 1:100 MTS



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ENGR. GRACE C. BABA	
DESIGNER	PROJECT
PRC NO. 98959	PTR NO. 6020689 A
DATE 02964884	DATE JULY 3, 2024
TIN NO. 940-111-301	PLACE: CDO

PROPOSED MOVABLE MODULAR MET LABORATORY	
LOCATION	OWNER
USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
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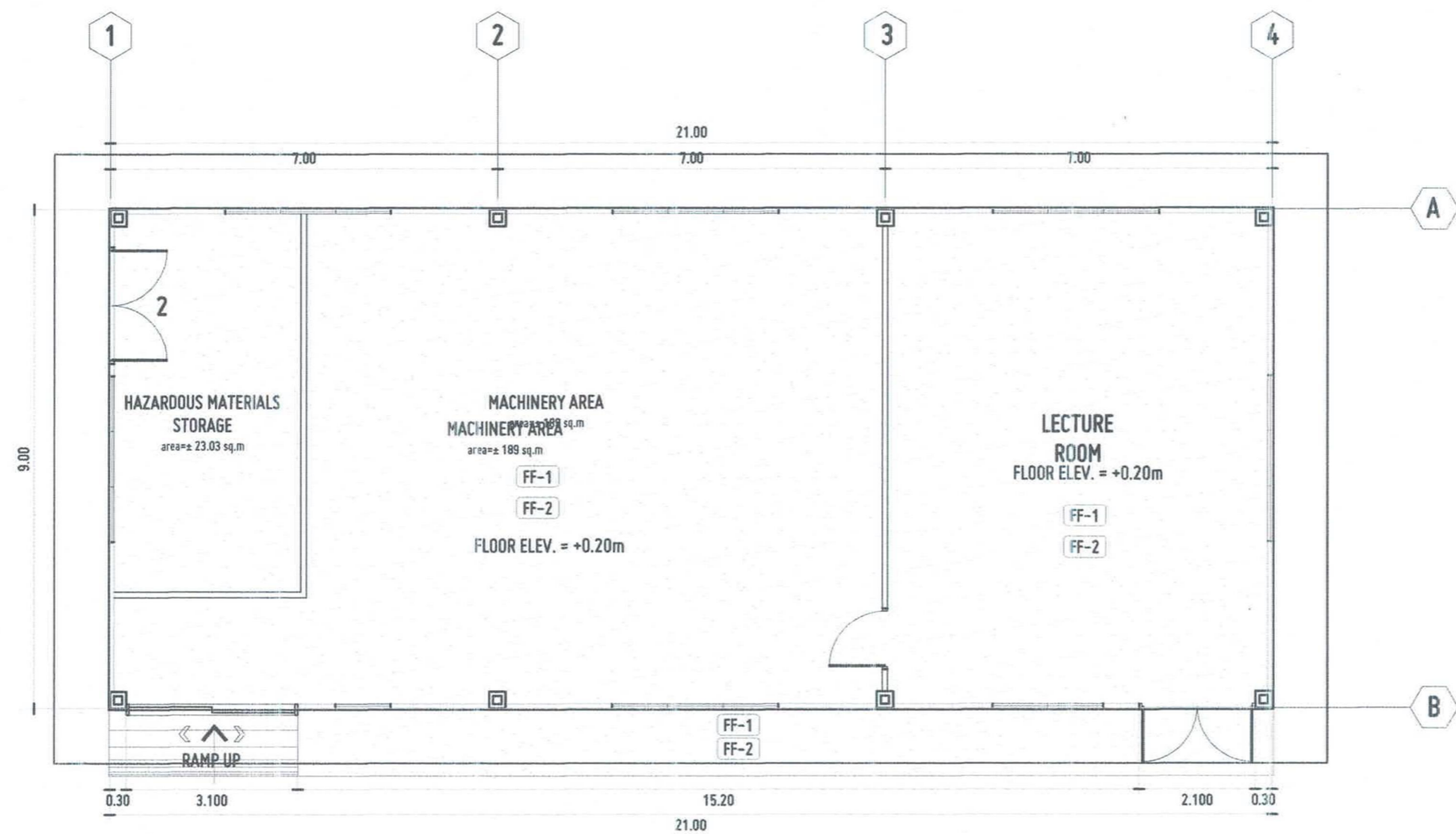
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ATTY. DIGNEL O. ALBINA
CHANCELLOR, USTP CAGAYAN DE ORO

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DR. AMBROSIO S. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
LONGITUDINAL SECTION CROSS SECTION
DRAWN BY:
DATE DRAWN:
FN:

A6



FLOOR FINISHES	
MARK	DESCRIPTION
FF-1	CLEAR CONCRETE HARDENER/DUSTPROOFER
FF-2	SMOOTH TROWELLED- FINISHED CONCRETE FLOOR.

FLOOR FINISHES LAYOUT PLAN
GROUND FLOOR PLAN
SCALE 1:100 MTS



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ENGR/GRACE C. BABA DESIGNER	PROJECT PROPOSED MOVABLE MODULAR MET LABORATORY
PRC NO. 98959 PTR NO. 6020689 A DATE JULY 3, 2024 TIN NO. 940-111-301 PLACE CDD	LOCATION USTP CDD CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	

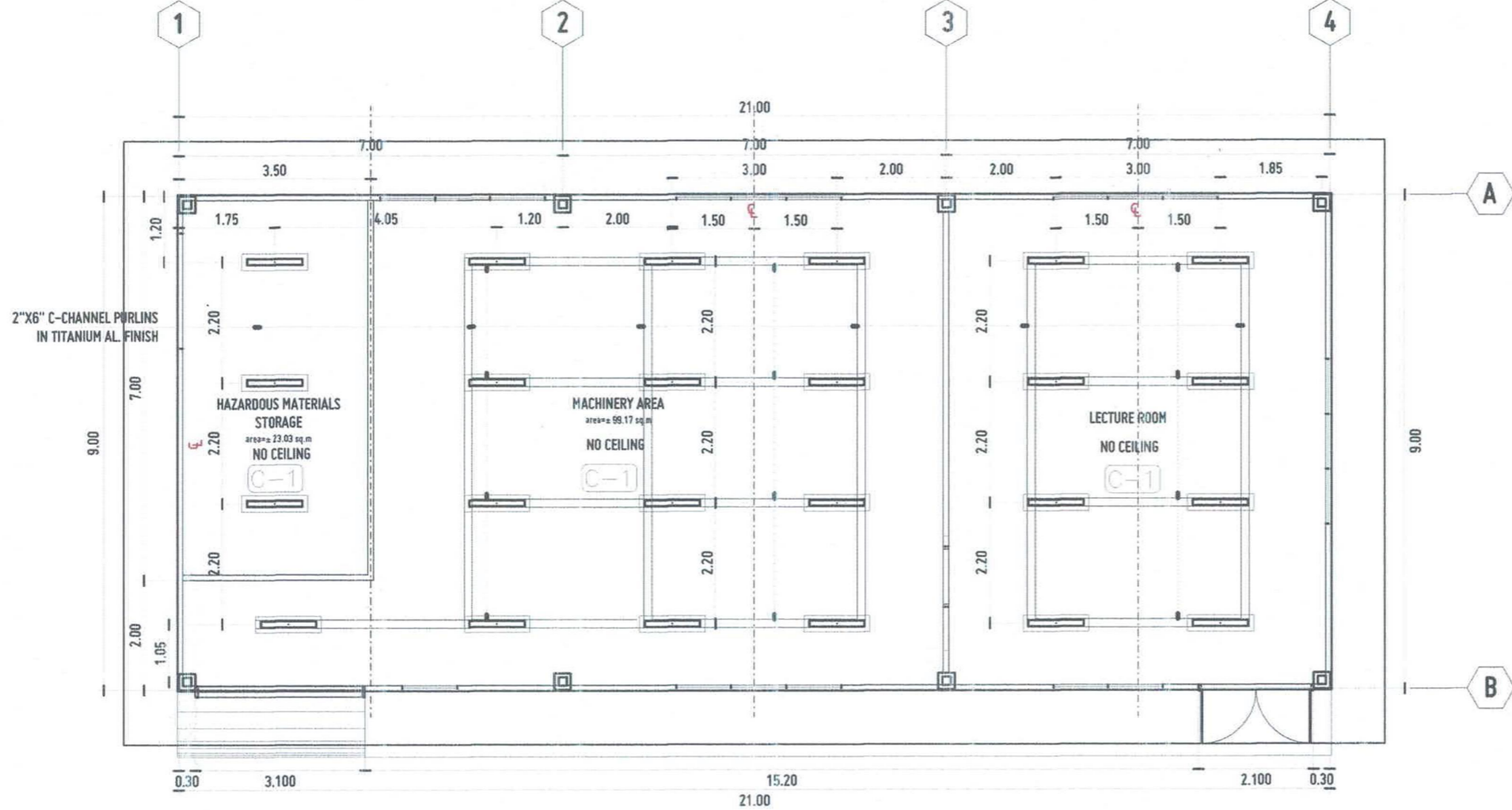
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VP FOR ADMINISTRATION & LEGAL AFFAIRS

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DR. AMBROSIO S. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS: FLOOR FINISHES LAYOUT PLAN	DRAWN BY:
	DATE DRAWN:
	FN:



CEILING FINISHES

C-1 EXPOSED TRUSSES (NO CEILING)

LEGEND:

 1-32W T8 LED FLOURESCENT LIGHT RECESSED TYPE WITH INDUSTRIAL HOUSING AND SUPPORT

REFLECTED CEILING PLAN

GROUND FLOOR PLAN



SCALE 1:100 MTS



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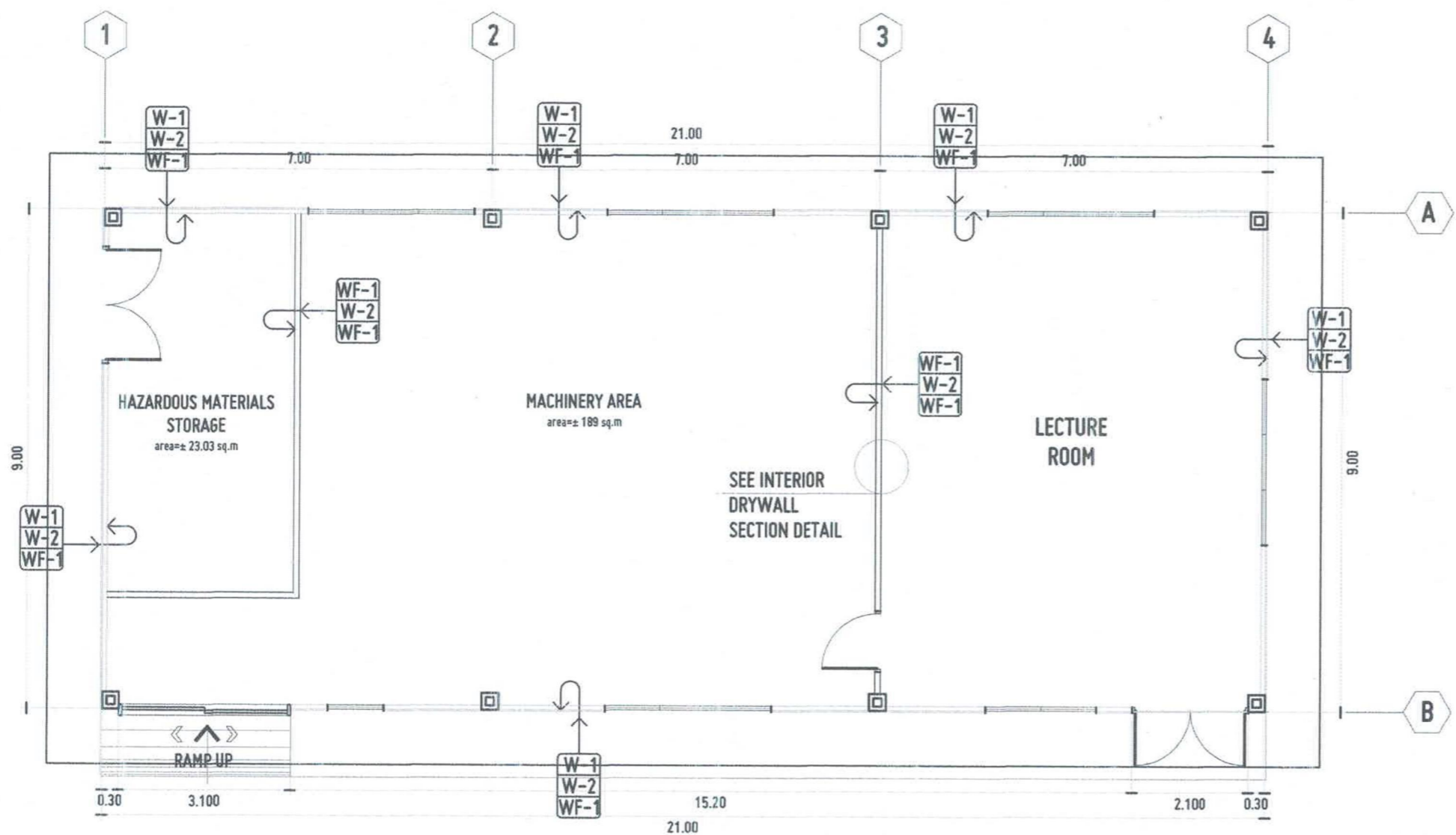
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APPROVED BY:
DR. AMBRASIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
REFLECTED CEILING PLAN
DRAWN BY:
DATE DRAWN:
PNE:



WALL FINISHES	
MARK	DESCRIPTION
WF-1	PAINTED W/ LOW-VOC, ANTIBACTERIAL PAINT IN HYGIENIC WHITE COLOR (INTERIOR)
PARTITION	
MARK	DESCRIPTION
W-1	0.50mm THK RIB TYPE WALL PANEL COLOR: WHITE (DESIGN: VERIFY ARCHITECT)
W-2	DRY WALL 6mm THK FIBERBOARD ON LIGHT METAL STUDS/FRAMING
DRAWING SYMBOLS	
SCHEDULE OF FINISHES	
●	WALL FINISH OF SAME SIDE OF SYMBOL
—	WALL OR PARTITION
●	WALL FINISH OF OTHER SIDE

WALL FINISHES LAYOUT PLAN
GROUND FLOOR PLAN

SCALE 1:100 MTS



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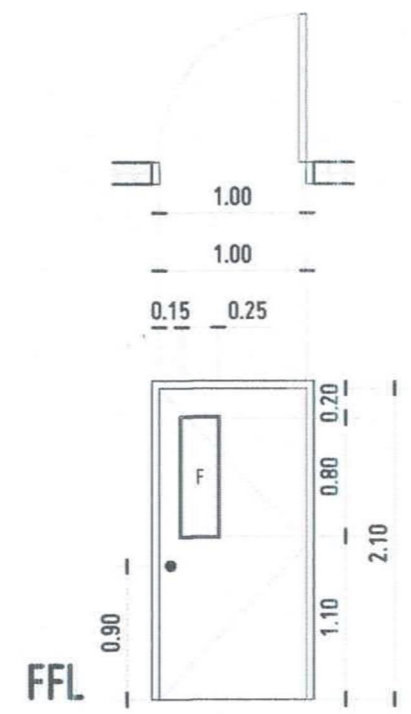
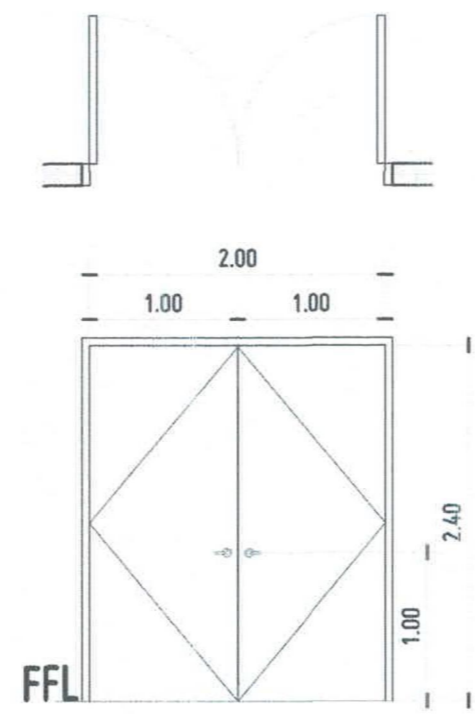
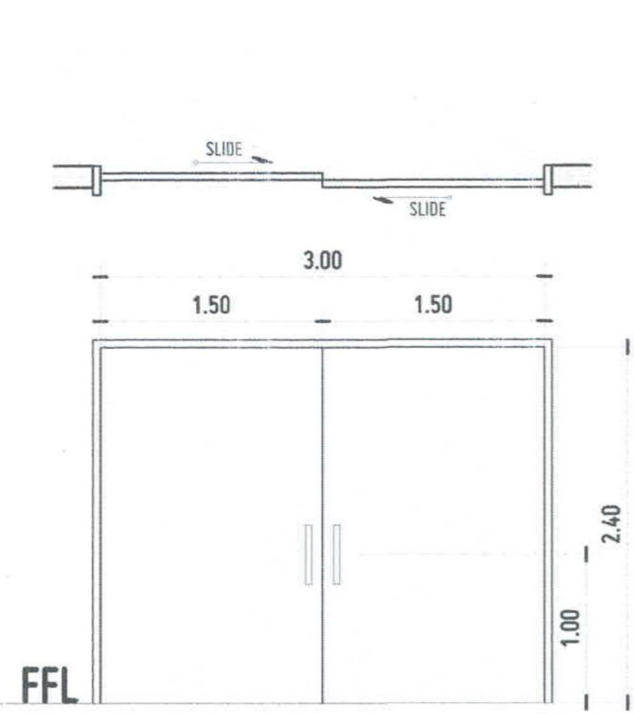
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CHANCELLOR, USTP CAGAYAN DE ORO

RECOMMENDING APPROVAL:
ATTY. ERWIN B. DUPIO
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBRASO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
WALL FINISHES LAYOUT PLAN
DRAWN BY:
DATE DRAWN:
CHK:



SCHEDULE OF DOORS

SCALE 1:50 MTS

TYPE:	DOUBLE LEAF HOLLOW CORE STEEL SLIDING DOOR WITH LITE
SET:	1 SET
DESCRIPTION:	FIRE RATED STEEL DOORS AND FIRE RATED STEEL JAMBS; PAINTED DARK GRAY INCLUDING ALL NECESSARY FIXINGS/ACCESSORIES. ALL IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATIONS. VISION PANELS: ultra clear 6mm THK glass
LOCATION:	MACHINERY AREA MAIN DOOR

TYPE:	DOUBLE LEAF HOLLOW CORE STEEL DOOR
SET:	2 SETS
DESCRIPTION:	fire rated steel doors and fire rated steel jambs; painted dark gray use fire rated butt hinges, 2-sets on upper portion of door stile, 1-set on bottom use cylindrical, lever type door handles (verify handedness), hairline finish use steel door thresholds; vision panels: ultra clear 6mm THK glass
LOCATION:	LECTURE ROOM MAIN DOOR, HAZARDOUS STORAGE RM

TYPE:	SINGLE LEAF FLUSH DOOR WITH VIEWING WINDOW
SET:	1 SET
DESCRIPTION:	SINGLE LEAF HOLLOW CORE FLUSH DOOR WITH 6MM THK. CLEAR GLASS VIEWING WINDOW, INCLUDING ALL NECESSARY FIXINGS, ALL IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATIONS.
LOCATION:	ACCESS DOOR FROM LECTURE ROOM TO MACHINERY AREA



TYPE:	JALOUPLUS WINDOW
SET:	21 SETS
DESCRIPTION:	JALOUPLUS WINDOW GLAZING: 6MM THK. GLASS, MACHINE POLISHED; ULTRA-CLEAR; JALOUPLUS FRAME: BLACK MAIN FRAME: POWDER COATED WHITE FINISH ALUMINUM FRAMES
LOCATION:	LECTURE ROOM & MACHINERY AREA



SCHEDULE OF WINDOW

SCALE 1:50 MTS



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DESIGNER	ENGR. GRACE C. BABA
PROJECT	PROPOSED MOVABLE MODULAR MET LABORATORY
DATE	JULY 3, 2024
PLACE	CDO

LOCATION	USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:	ENGR. GRACE C. BABA
RECOMMENDING APPROVAL:	ATTY. DIONEL O. ALBINA
RECOMMENDING APPROVAL:	ATTY. ERWIN B. BUCHE

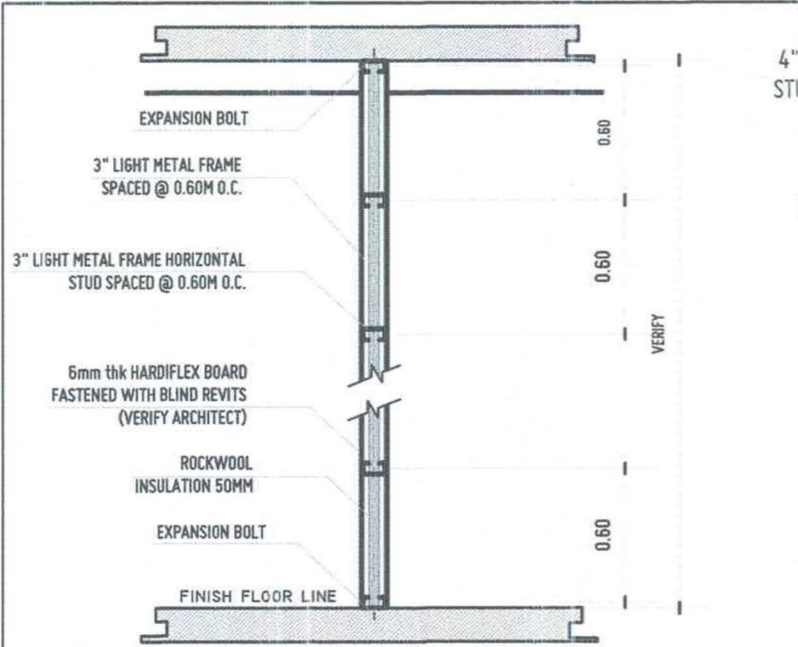
RECOMMENDING APPROVAL:	DR. AMBROSIO B. CULTURA II
RECOMMENDING APPROVAL:	

APPROVED BY:	
APPROVED BY:	

SHEET CONTENTS:	SCHEDULE OF DOORS SCHEDULE OF WINDOWS
DATE DRAWN:	
DATE:	

DRAWN BY:	
DATE:	
DATE:	

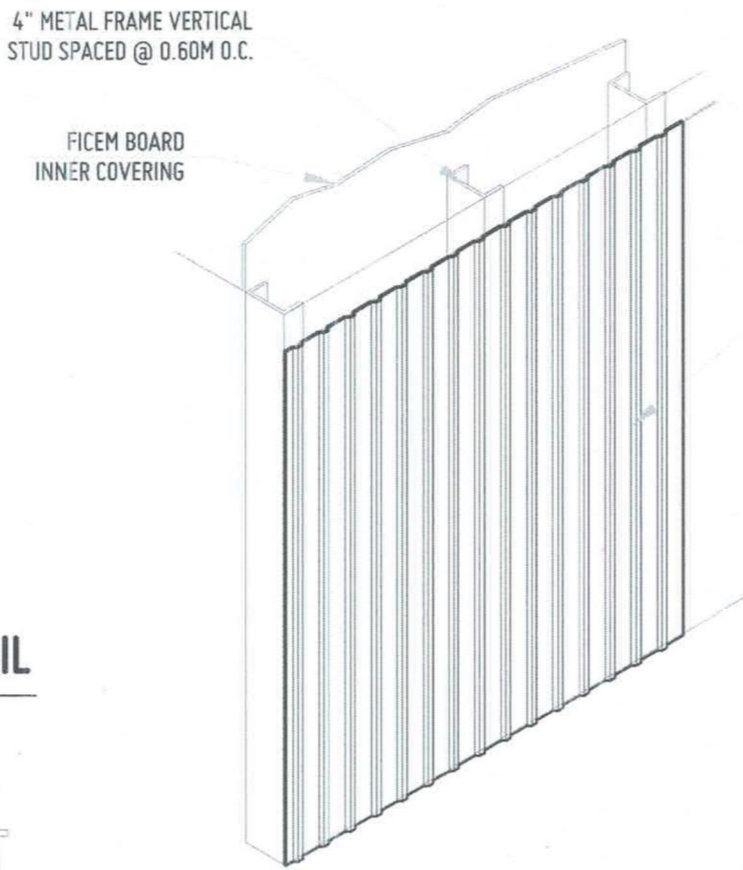




INTERIOR DRYWALL SECTION DETAIL



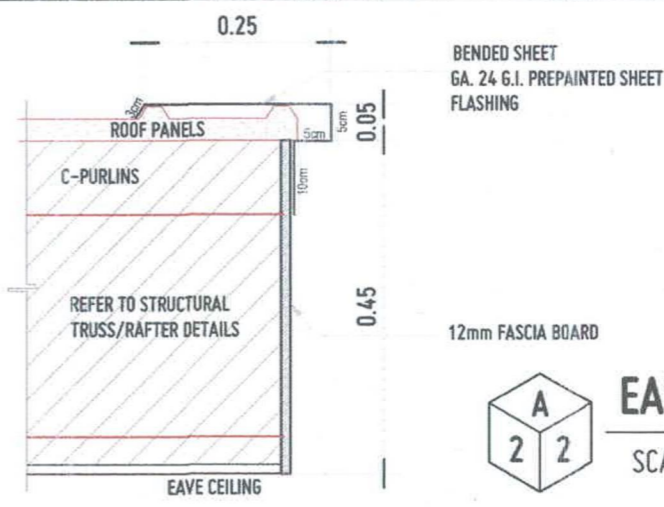
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EXTERIOR WALL DETAIL ISOMETRIC VIEW

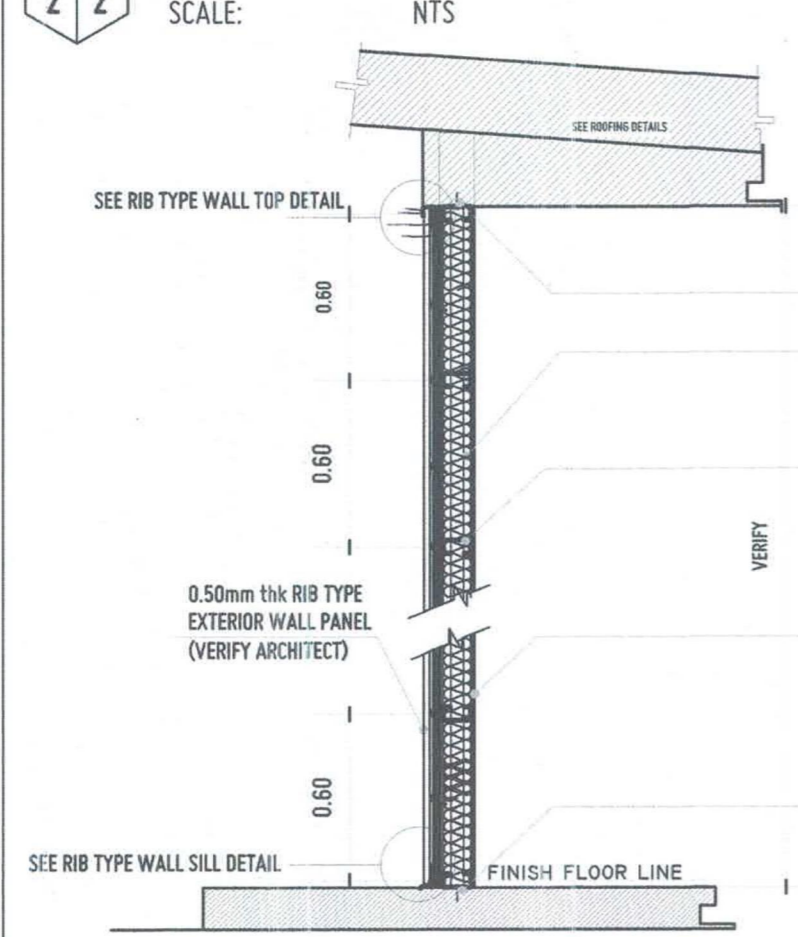


SCALE: NTS



EAVES DETAIL B

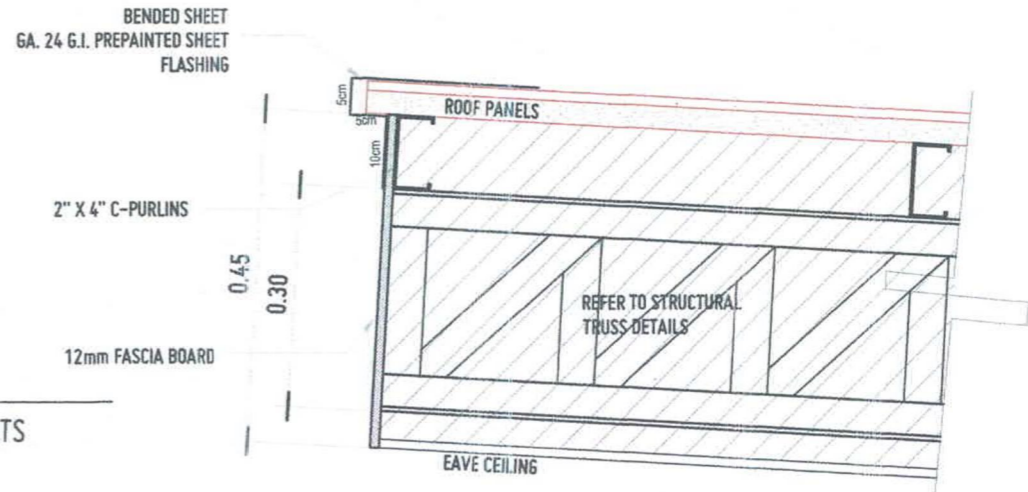
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EXTERIOR WALL SECTION DETAIL

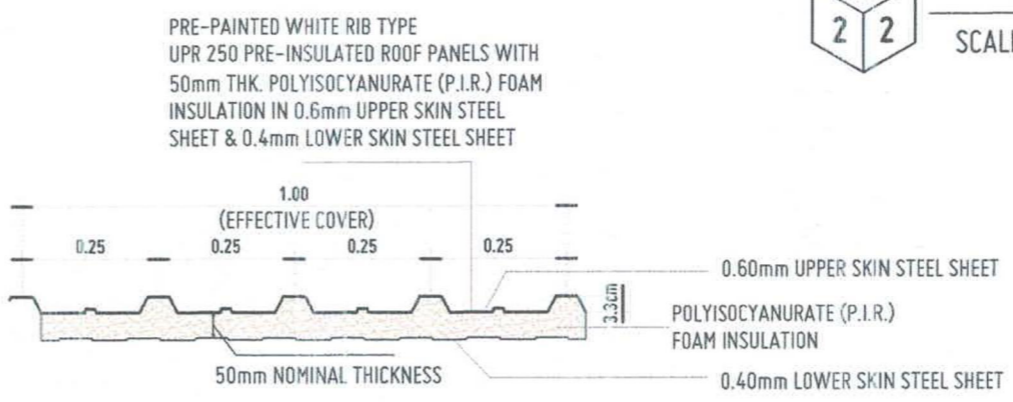


SCALE: NTS



EAVES DETAIL A

SCALE: NTS



UPR-250 ROOF SECTION DETAIL



SCALE: NTS



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PRC NO. 98959	DESIGNER ENGR. GRACE C. BABA	PROJECT PROPOSED MOVABLE MODULAR MET LABORATORY
DATE JULY 3, 2024	LOCATION USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY	OWNER UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES
PLACE CDO		

RECOMMENDING APPROVAL: ENGR. GRACE C. BABA	RECOMMENDING APPROVAL: ATTY. DIGNEL O. ALBINA	RECOMMENDING APPROVAL: ATTY. ERWIN B. BULIC
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	CHANCELLOR, USTP CAGAYAN DE ORO	VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS: DRYWALL SECTION DETAIL EXTERIOR WALL SECTION DETAIL EXTERIOR WALL ISO VIEW DETAIL EAVES DETAILS ROOF SECTION DETAIL	DRAWN BY: DATE DRAWN: PNT:
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GENERAL NOTES

1. GENERAL

- THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, OPENINGS AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED, THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OR CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL BY THE ROYAL COMMISSION.
- LOADINGS APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS, THE LIVE LOADING USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
- ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.

2. DESIGN CRITERIA

- STANDARDS
 - THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODE OF STANDARD PRACTICE:
 - NATIONAL STRUCTURAL CODE OF THE PHILIPPINES
 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318RM)
 - INTERNATIONAL BUILDING CODE (IBC)
 - STRUCTURAL ENGINEERING INSTITUTE/AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7)
 - MATERIALS
 - THE FOLLOWING STRUCTURAL MATERIALS AND THEIR CORRESPONDING STRENGTH ARE ADOPTED IN THE DESIGN:

A. CONCRETE CYLINDER STRENGTH AT 28 DAYS	$f'_c = 20$ MPa
B. CONCRETE BONDING	$f'_c = 20$ MPa
C. REINFORCING BARS	f_y
D. CONCRETE MASONRY UNITS	$f'_m = 14$ MPa
E. STRUCTURAL STEEL PLATES AND SHAPES - ASTM A36	$f_y = 248$ MPa
F. ANCHOR BOLTS - ASTM A307	$f_y = 228$ MPa
- DESIGN LOADS
 - DEAD LOADS: DESIGN GRAVITY DEAD LOADS USED IN THE DESIGN ARE AS FOLLOWS:

A. CONCRETE	24 KN/M ²
B. 50 MM FLOOR TOPPING - FINISH	1.7 KN/M ²
C. 100 MM CONCRETE MASONRY UNITS	2.70 KN/M ²
D. 150 MM CONCRETE MASONRY UNITS	3.30 KN/M ²
E. ROOF TOPPING + WATERPROOFING + INSULATION	2.50 KN/M ²
 - LIVE LOADS: DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN ARE AS FOLLOWS:

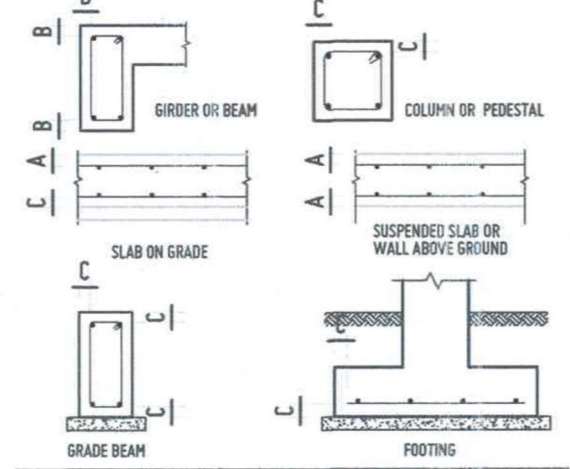
A. FLOOR LIVE LOAD	2.0 KN/M ²
B. ROOF LIVE LOAD	CONCRETE ROOF 1.0 KN/M ² STEEL ROOF 60 KN/M ²
C. CORRIDORS, STAIRS & BALCONIES	5.0 KN/M ²
 - WIND LOAD
 - WIND LOAD ON STRUCTURE SHALL BE COMPUTED AND APPLIED IN CONFORMANCE TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.
 - DESIGN WIND PRESSURES
 - BASIC WIND VELOCITY FOR JASAAN, MISAMI'S OR ARE AS FOLLOWS: 50 KPH
 - SIMPLIFIED DESIGN WIND SHALL BE DESIGNED AS GIVEN IN NSCP FIGURE REFS. 8 & 13.
 - ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE (K)
 - ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE (K) SHALL BE AS GIVEN IN FIGURE 6-2 OF SEI/ASCE 7.
 - IMPORTANCE FACTOR (I)
 - IMPORTANCE (I) SHALL BE AS DEFINED IN SECTION 6.5.5 OF SEI/ASCE 7.
 - EXPOSURE CATEGORY
 - AN EXPOSURE CATEGORY SHALL BE IN ACCORDANCE WITH SECTION 6.5.6 OF SEI/ASCE 7.
 - EARTHQUAKE LOADS
 - COMPUTATIONS AND APPLICATION OF SEISMIC LOADS ON THE STRUCTURE SHALL BE IN ACCORDANCE WITH THE EARTHQUAKE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.

3.2 FOUNDATION

- FOUNDATION SHALL BE DESIGNED BASED ON THE GEO-TECHNICAL INVESTIGATION REPORT. THE GENERAL CONTRACTOR SHALL CONDUCT HIS OWN GEO-TECHNICAL TEST TO VERIFY THE DESIGN IS SAFE AND IS ACCORDANCE TO THE GEO-TECHNICAL SOIL TEST RESULT REPORT.
- SITE PREPARATION
 - ALL VEGETATION, DEBRIS AND SURFACE SOILS CONTAINING ORGANIC MATERIALS SHALL BE REMOVED FROM THE SITE.
 - THE EXPOSED SUB-GRADE SHALL BE DENSIFIED PRIOR TO PLACING ANY FILL. THE DENSIFICATION SHALL BE ACHIEVED BY COMPACTION, AND SHALL CONTINUE UNTIL THE SOIL DENSITY, 300 MM BELOW THE EXISTING SUB-GRADE, IS AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
 - IF THE COMPACTED SOILS ARE DUE TO CONSTRUCTION ACTIVITIES, THESE SOILS SHALL BE RE-COMPACTED AND RE-TESTED.
- GROUND WATER TABLE:
 - THE CONTRACTOR'S ATTENTION IS DRAWN TO GROUNDWATER ELEVATIONS INDICATED OR DISCUSSED IN THE GEO-TECHNICAL REPORT. WELL-POINTS MAY BE NEEDED SO THAT THE GROUND WATER LEVEL IS MAINTAINED AT LEAST 500 MM BELOW THE BOTTOM OF FOOTINGS DURING CONSTRUCTION.
- THE SIDES OF FOOTINGS SHALL BE FORMED, EXCAVATED SOILS TO FORM THE SIDES OF FOOTINGS ARE NOT ACCEPTABLE.
- TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN OR DETAILS. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE.
- NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING PERMANENT CONSTRUCTION.

4. CONCRETE CONSTRUCTION

- NO SPLICES SHALL BE PERMITTED IN FLEXURAL MEMBER REINFORCEMENT AT POINTS WHERE CRITICAL BENDING STRESSES OCCURS.
- WHEN A BEAM CROSSES A GIRDER, REST BEAM BARS ON TOP OF GIRDER BARS.
- IF SLABS ARE REINFORCED BOTH WAYS (TWO-WAY SPANNING SLABS), THE BARS ALONG THE SHORT SPAN SHALL BE AT THE LOWER LAYER FOR BOTTOM BARS, AND UPPER LAYER FOR TOP BARS.
- UNLESS OTHERWISE NOTED, THE FOLLOWING CLEAR CONCRETE COVER OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-14, CLEAR COVER REQUIREMENTS AND USED AS FOLLOWS:



CAST-IN-PLACE CONCRETE			
CLEAR COVER	EXPOSED TO WEATHER OR EARTH	NOT EXPOSED TO WEATHER OR EARTH	
A	50	25	
B	50	40	
C	75	50	

PRECAST CONCRETE			
CLEAR COVER	EXPOSED TO EARTH	EXPOSED TO WEATHER	NOT EXPOSED TO WEATHER OR EARTH
WALL PANELS	75	30	20
OTHERS	75	50	30

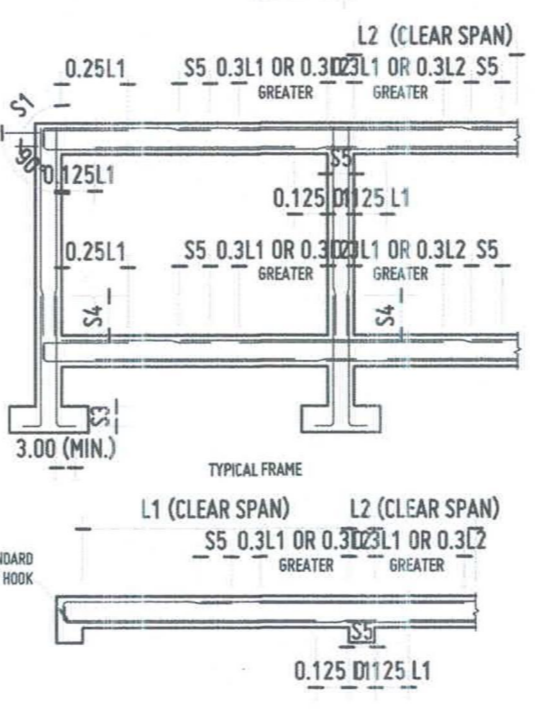


MAIN REINFORCEMENT			
BARS (MM)	MINIMUM BEND DIAMETER	EXTENSION	
		L1 (MM)	L2 (MM)
#8	50	60	95
#10	60	60	125
#12	70	60	145
#14	85	60	170
#16	95	65	190
#18	110	70	215
#20	120	80	240
#22	130	90	265



STIRRUPS AND TIES		
BARS (MM)	MINIMUM BEND DIAMETER	EXTENSION
#8	30	50
#10	40	60
#12	50	70
#14	55	85
#16	65	95

4.6 UNLESS OTHERWISE INDICATED, THE FOLLOWING MINIMUM DEVELOPMENT AND LAP LENGTH SHALL BE USED:



BARS (MM)	MIN. DEVELOPMENT LENGTH			MIN. LAP LENGTH	
	IN TENSION	IN COMPRESSION		IN TENSION	IN COMPRESSION
#8	420	325	200	420	300
#10	525	405	210	525	300
#12	630	485	250	630	355
#14	735	565	295	735	410
#16	840	645	335	840	470
#18	945	725	380	945	530
#20	1050	805	420	1050	590
#22	1440	1110	460	1440	650
#25	1640	1260	525	1640	735
#28	1835	1410	590	1835	825
#30	1965	1510	630	1965	880
#32	2095	1615	670	2095	940

- NOTES:
- THE INDICATED MINIMUM DEVELOPMENT AND LAP LENGTH IS FOR CLASS 25 CONCRETE. FOR f'_c OTHER THAN 25 MPa, THE VALUES OF S1, S2, S3, AND S4 SHALL BE MULTIPLIED BY $(f'_c/25)^2$.
 - WHEN LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INDICATED VALUE OF S1 AND S2 SHALL BE MULTIPLIED BY 1.3, HOWEVER WHEN THE AVERAGE SPLITTING TENSILE STRENGTH OF LIGHTWEIGHT AGGREGATE CONCRETE (f_{ct}) IS SPECIFIED, S1 AND S2 SHALL BE PERMITTED TO BE MULTIPLIED BY $(f_{ct}/f_{ct,c})$ BUT NOT LESS THAN 1.0.
 - FOR EPOXY COATED BARS, S1 AND S2 SHALL BE MULTIPLIED BY 1.3.
 - LAP AND DEVELOPMENT LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE THAT FOR INDIVIDUAL BAR INCREASED BY 2.0% FOR THREE BAR BUNDLE, 33% FOR FOUR BAR BUNDLE.

5. MASONRY

- MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ACI 530/ASCE 5.
- MASONRY EXPANSION AND CONTROL JOINT REQUIREMENTS SHALL BE AS INDICATED.
- UNLESS OTHERWISE INDICATED, ALL WALLS SHALL BE LAID IN RUNNING BOND.
- REINFORCING BARS SHALL BE PROVIDED OF THE GIVEN SIZE AND SPACING AS INDICATED, PROVIDE BARS AT ALL WALL CORNERS, INTERSECTIONS AND OPENING EDGES.
- REBAR DWELS SHALL BE PROVIDED FROM FOUNDATIONS TO MATCH VERTICAL BARS.
- LINTEL BEAM SHALL BE PROVIDED ABOVE ALL WALL OPENINGS.

6. STEEL

- ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16.

7. NOTES FOR DRAWING NOMENCLATURES

- ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- INDICATED DIMENSION SHALL PREVAIL AGAINST SCALED DIMENSION.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS. SHALL NOTIFY THE IPDO OF ANY DISCREPANCY.
- ALL REINFORCING BARS SHALL BE READ AS FOLLOWS:

BAR DIAMETER	BAR MARK	LAYER OR LOCATION
QUANTITY	SPACING OF BARS	

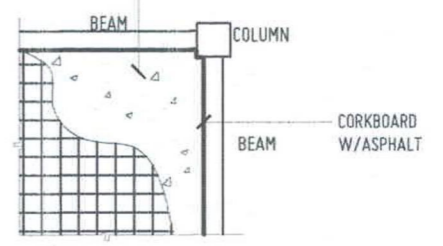
8. ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
ALP	ALTERNATELY PLACED
AR	ALTERNATELY REVERSED
AS	ALTERNATELY STAGGERED
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
B	BOTTOM
BF	BACK FACE
BW	BOTHWAYS
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
DISCONT	DISCONTINUOUS
DTL	DETAIL
DWG	DRAWING
EF	EACH FACE
EL	EXISTING LEVEL
ELEV	ELEVATION
EQ	EQUAL
EW	EACH WAY
EXT	EXTERIOR
FF	FRONT FACE
FIN	FINISH
GLS	GUIDELINE SPECIFICATION
HOR	HORIZONTAL
INT	INTERIOR
LGTH	LENGTH
MIN	MINIMUM
NTS	NOT TO SCALE
OC	ON CENTER
REBAR	REINFORCING BAR
REINF	REINFORCED, REINFORCEMENT OR REINFORCING
SEC	SECTION
SP	SPACING
STIRR	STIRRUPS
SYMM	SYMMETRICAL
T	TOP
THK	THICK
TOP	TYPICAL
UN	UNLESS OTHERWISE NOTED
VERT	VERTICAL
WWF	WELDED WIRE FABRIC

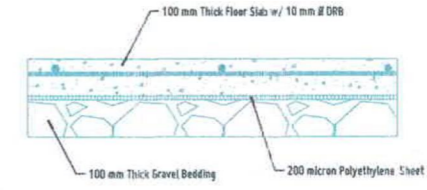
9. WATER PROOFING

- ALL STRUCTURAL CONCRETE IN CONTACT WITH THE GROUND SHALL BE PROTECTED EITHER BY TWO COATS OF BITUMINOUS DAMPROOFING OR BY USE OF WATER PROOF MEMBRANE AS BEEN SHOWN ON THE DETAILED DRAWINGS.
 - POLYETHYLENE SHEET OF 200 MICRON TO BE USED AS VAPOUR BARRIER UNDER MUD SLAB.
 - WATER PROOFING TO BE APPLIED ON TO TOP OF MUD CONCRETE AND ABOVE.
 - WHEN USING WATER PROOF MEMBRANE, IT SHOULD BE AS PER RC GUIDE SPEC, 07110 (TANKING SYSTEM) ROYAL COMMISSION GUIDELINE SPECIFICATION 07130.

150MM THK S.O.G. W/10mm Ø SB SP @ 350 MM O.C. B.W W/ 200 micron Polyethylene sheet & 100mm thk. lean concrete and sub-grade @ 95% maximum dry density



SLAB ON GROUND DETAIL



SLAB ON GRADE DETAIL

SCALE: 1:100
GENERAL NOTES & SPECIFICATIONS
NTS



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LOCATION: USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

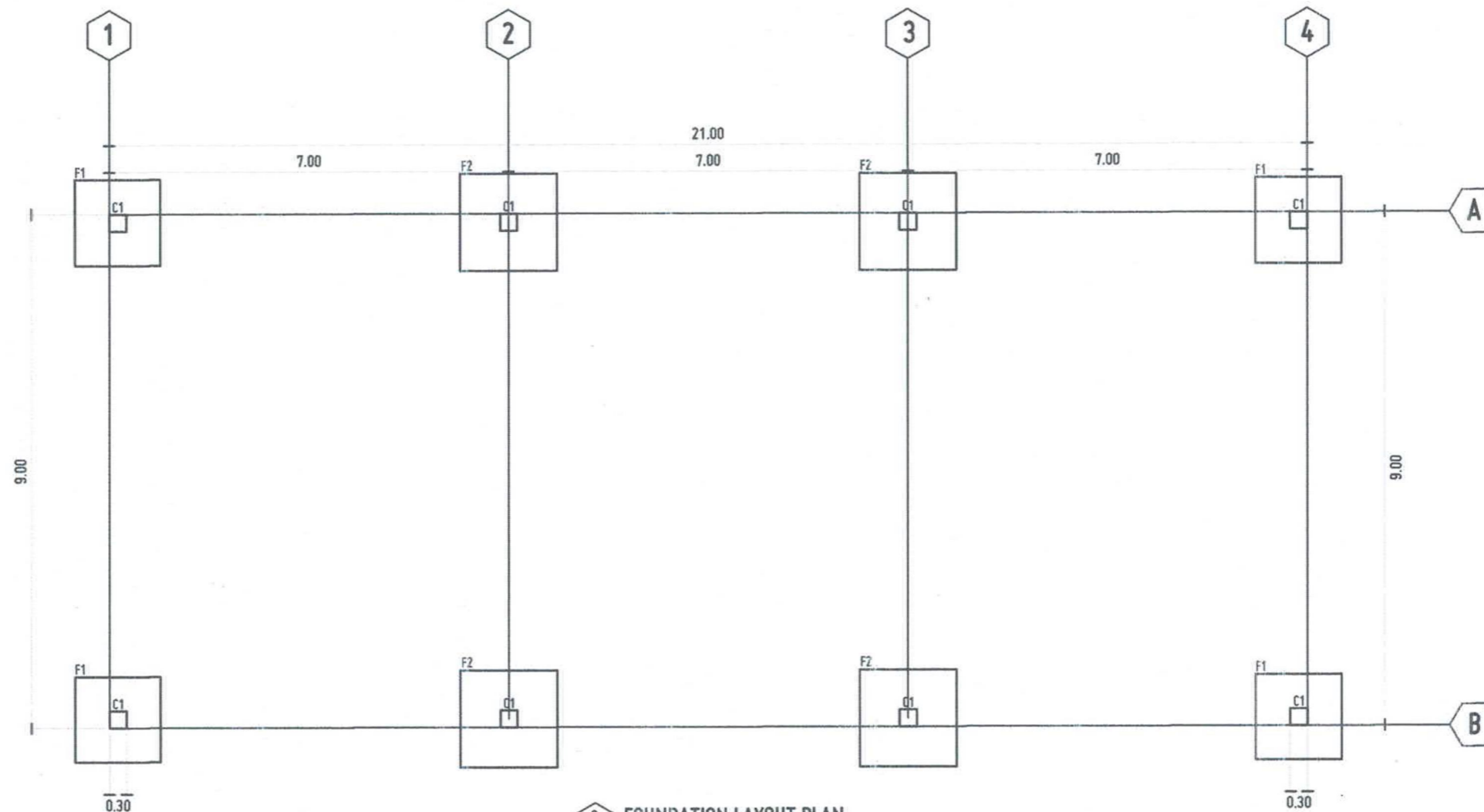
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RECOMMENDING APPROVAL:
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PRESIDENT, USTP SYSTEM

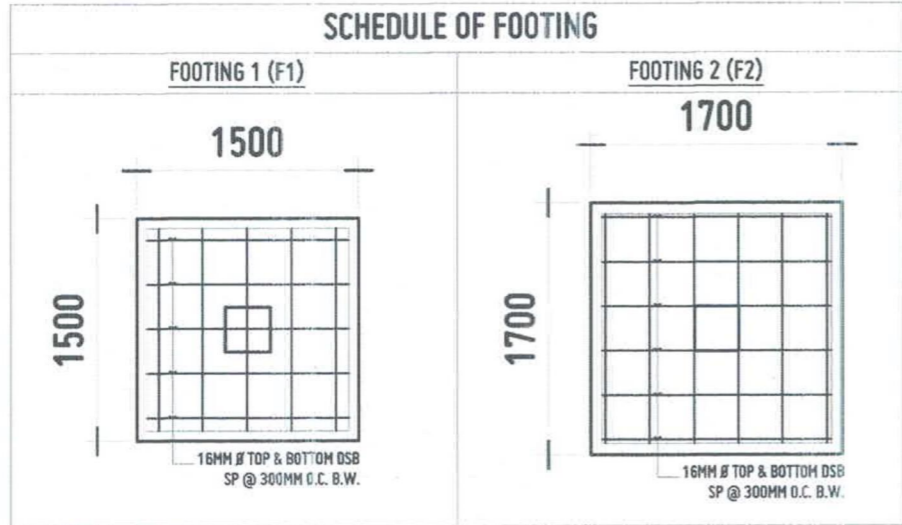
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GENERAL NOTES & SPECIFICATIONS
DATE DRAWN:
FMT:



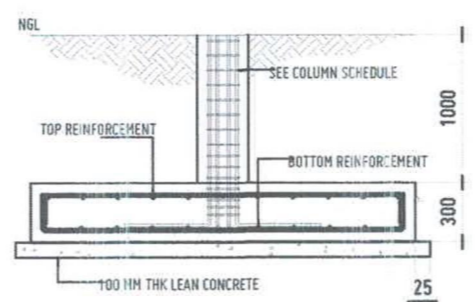
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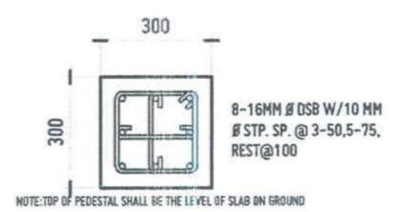
FOUNDATION LAYOUT PLAN
SCALE 1:100 MTS



FOOTING DETAILS
SCALE 1:50 MTS



SECTION VIEW



**COLUMN 1 (C1)
SECTION VIEW**

COLUMN PEDESTAL DETAILS
SCALE 1:50 MTS



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PRC NO: 004-948 / PTR NO: 897489
VALIDITY DATE: 31/07/2027 DATE: 1/28/2024
TIN NO: 152-220-343 NAME: ERNESTO ALBINO QTY

PROPOSED MOVABLE MODULAR MET LABORATORY
PROJECT
LOCATION: USTP CDO CAMPUS, C.M. RECTO AVE., LAPASAN, CAGAYAN DE ORO CITY
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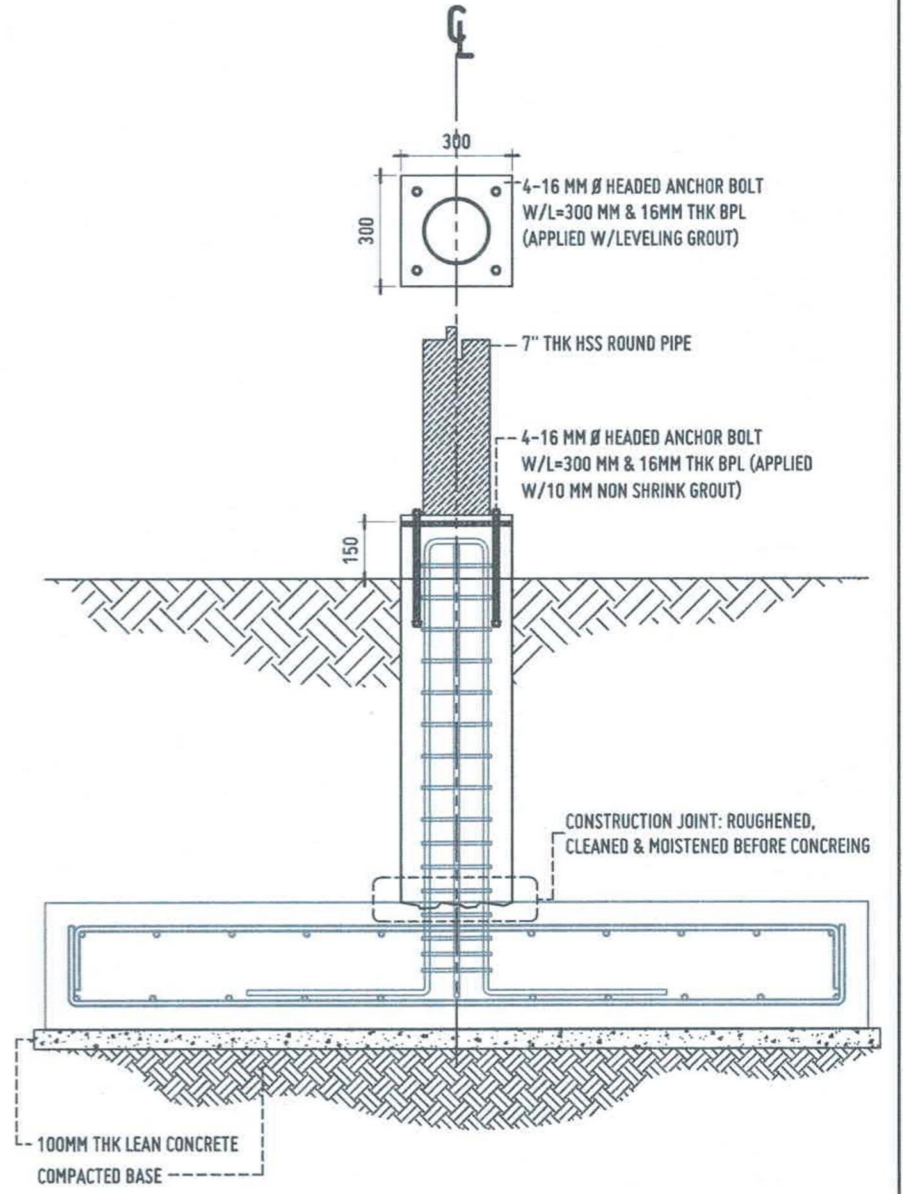
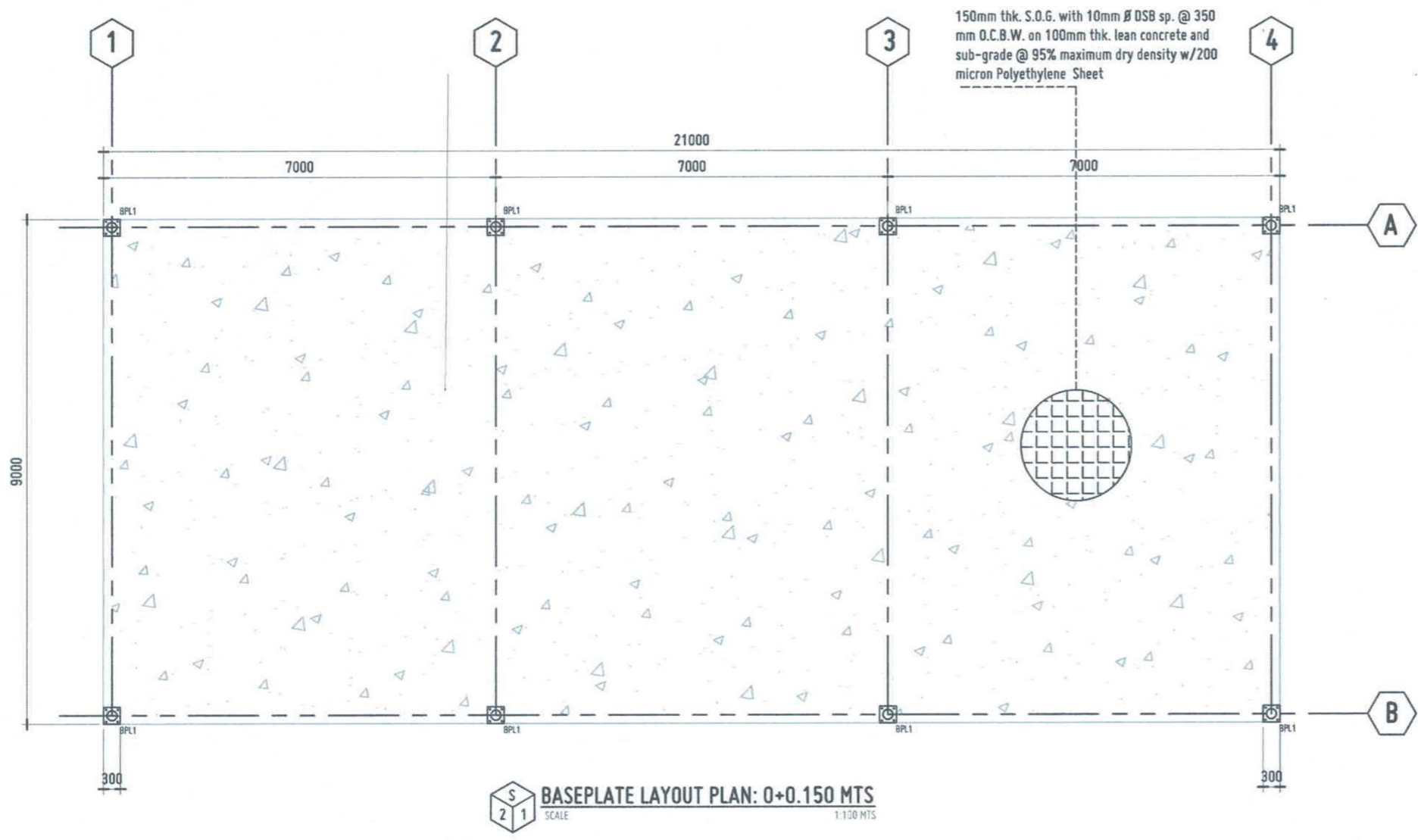
APPROVED BY:
DR. AMBRISIO S. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
FOUNDATION PLAN
FOOTING DETAILS
COLUMN PEDESTAL DETAILS

DRAWN BY:
DATE DRAWN:
PWT:

S1

Approved by:



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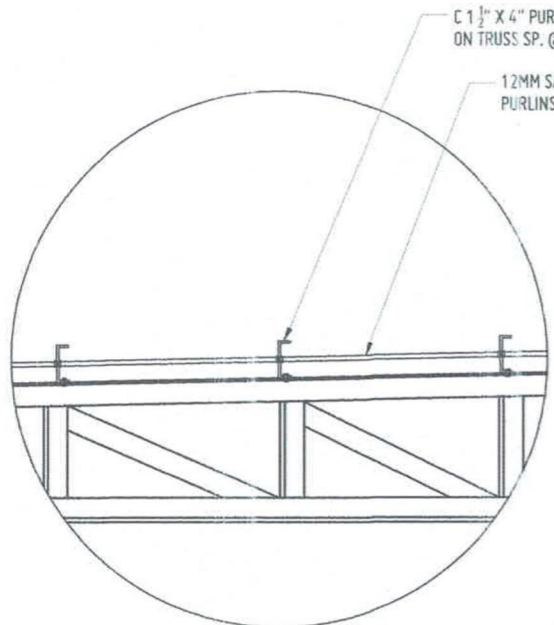
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Approved by:

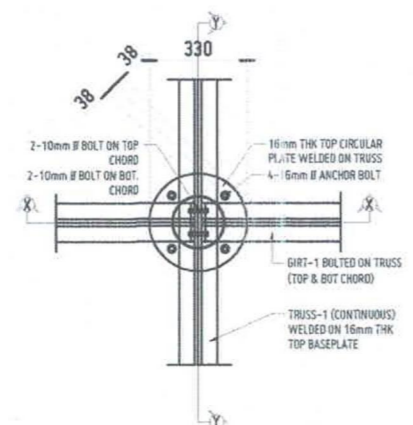
A

12MM SAGRODS
SP. @ 1000 MM
16MM CROSS BRACING

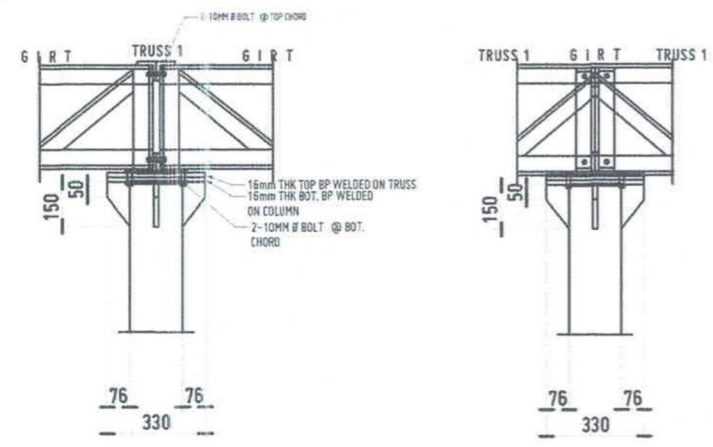
B



PURLINS DETAIL
SCALE 1:20MTS



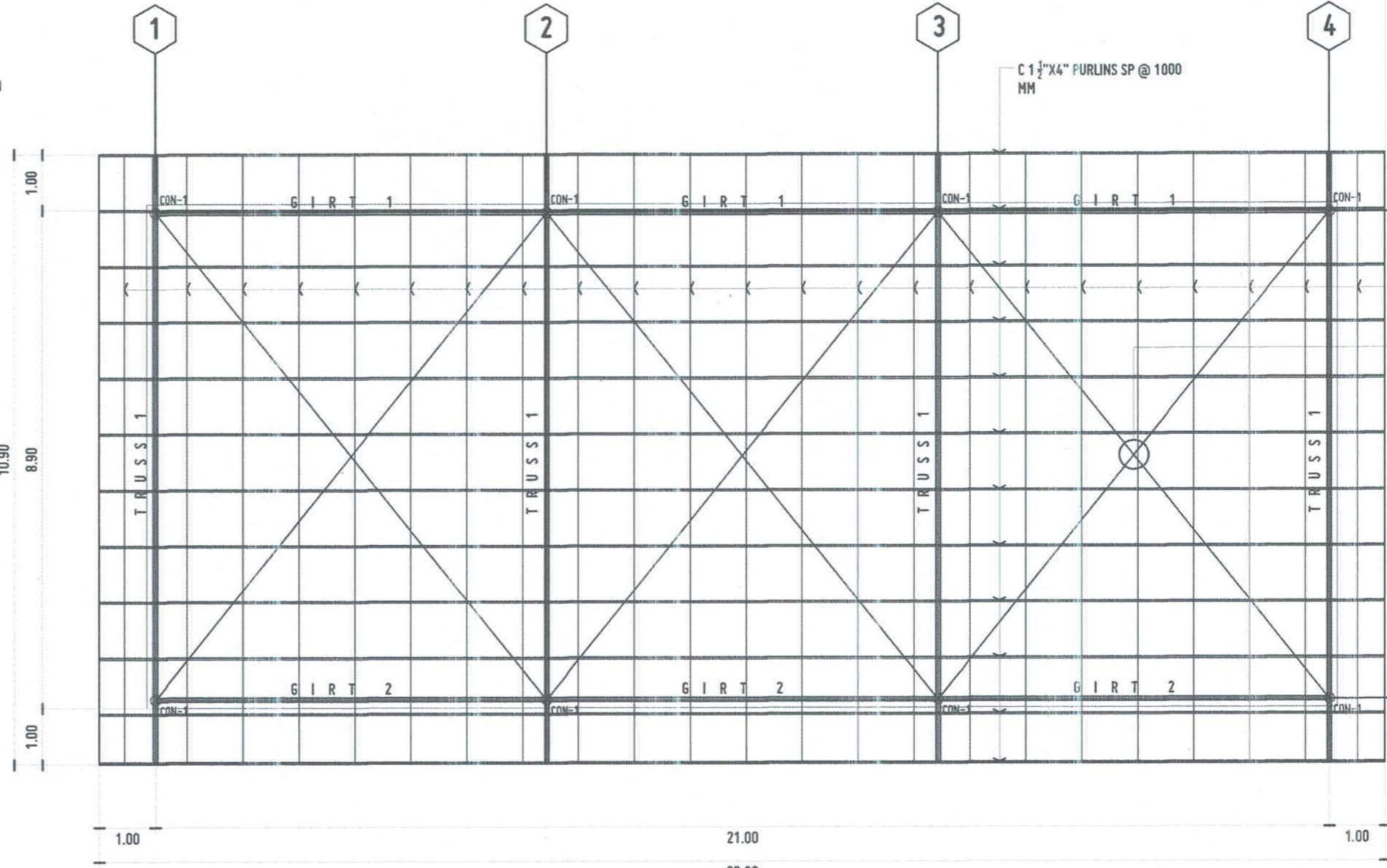
PLAN VIEW



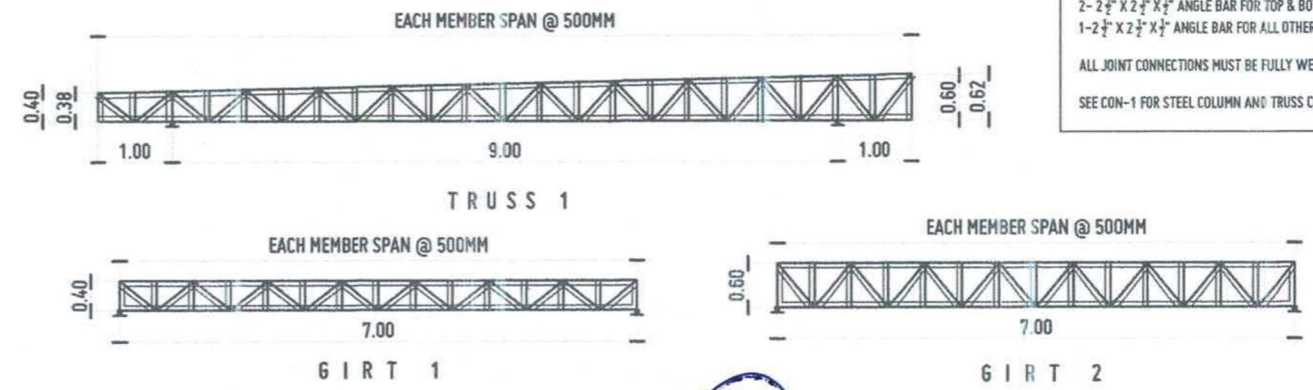
SECTION X

SECTION Y

CON-1 DETAILS
SCALE 1:25MTS



ROOF FRAMING LAYOUT
SCALE 1:100 MTS



TRUSS DETAILS
SCALE 1:100 MTS

USE:
2-2 1/2" X 2 1/2" X 1/2" ANGLE BAR FOR TOP & BOTTOM CHORD
1-2 1/2" X 2 1/2" X 1/2" ANGLE BAR FOR ALL OTHER MEMBERS
ALL JOINT CONNECTIONS MUST BE FULLY WELD
SEE CON-1 FOR STEEL COLUMN AND TRUSS CONNECTION



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PROJECT
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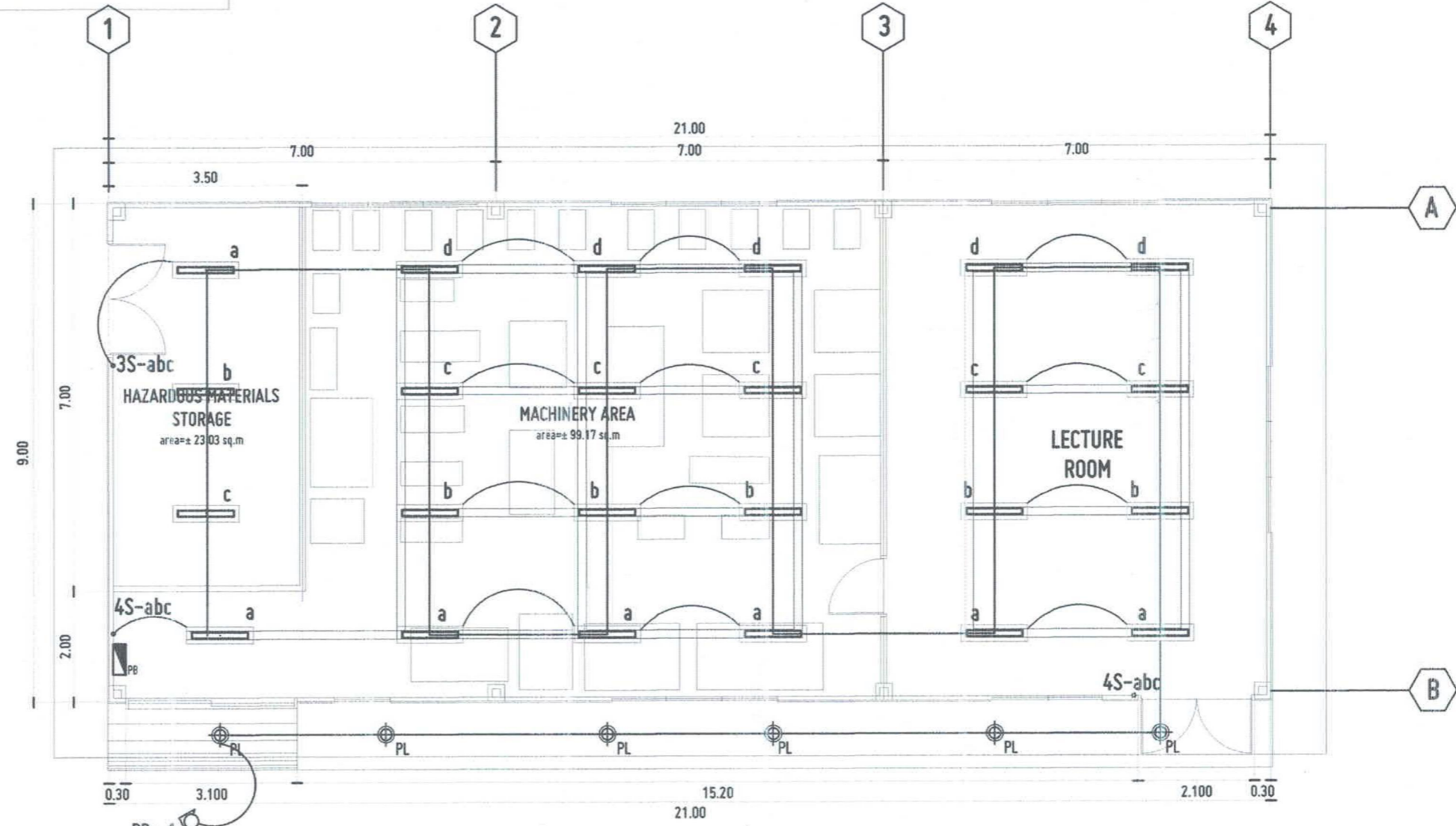
SHEET CONTENTS:
ROOF FRAMING PLAN
PURLINS DETAIL
TRUSS DETAILS
CON-1 DETAIL

DRAWN BY:
DATE DRAWN:
PNT:

S3

LEGEND	
Symbol	Remarks
S	Single Pole Toggle Switch, 15A, 300V. 2S, 3S, Etc. Indicates Gang Switches, Small Letter Subscript Indicates Lights or Devices Being Controlled. Combine Maximum of Three (3) Toggles on One Standard Device Plate For Switch Location with More Than Nine (9) Toggle, Use Switch Bank Plate.
3S	Same as Above Except 3-Way Switch

- LEGEND:
- 1-32W T8 LED FLOURESCENT LIGHT RECESSED TYPE WITH INDUSTRIAL HOUSING AND SUPPORT
 - 12 WATTS LED PIN LIGHT
 - PANEL BOARD
 - CIRCUIT LINE
 - SWITCH LINE
 - CIRCUIT HOMERUN
 - a b c** SWITCH DESIGNATION
 - 3S-abc** 3 GANG SWITCH
 - 4S-abc** 4 GANG SWITCH



E
1 2
ELECTRICAL LIGHTING LAYOUT
SCALE: 1:100 MTS



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PLACE	OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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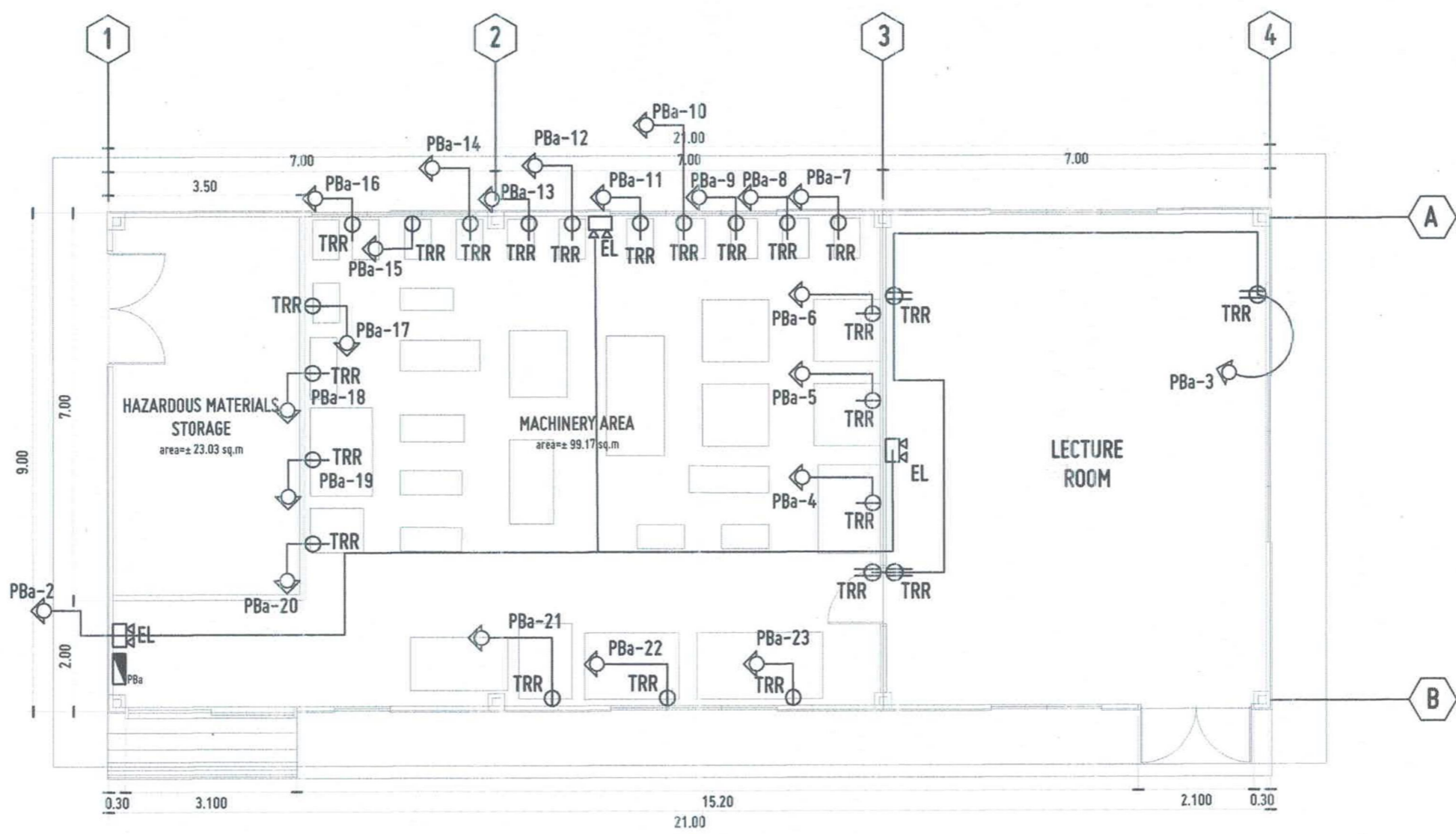
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SHEET CONTENTS:	DRAWN BY:

E1

Approved by:

- LEGEND:
- SIMPLEX OUTLET TAMPER RESISTANT RECEPTACLE
 - DUPLEX CONVENIENCE OUTLET TAMPER RESISTANT RECEPTACLE
 - TRR
 - GFCI
 - EL
 - PANEL BOARD
 - PB
 - CIRCUIT LINE
 - CIRCUIT HOHERUN



E
1 2 **ELECTRICAL POWER LAYOUT**
SCALE : 1:100 MTS



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PROFESSIONAL ELECTRICAL ENGINEER	PROJECT	PROPOSED MOVABLE MODULAR MET LABORATORY
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DATE	OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES
TIN NO.	PLACE	

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APPROVED BY:
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SHEET CONTENTS:	DRAWN BY:
	DATE DRAWN:
	INT:

E2