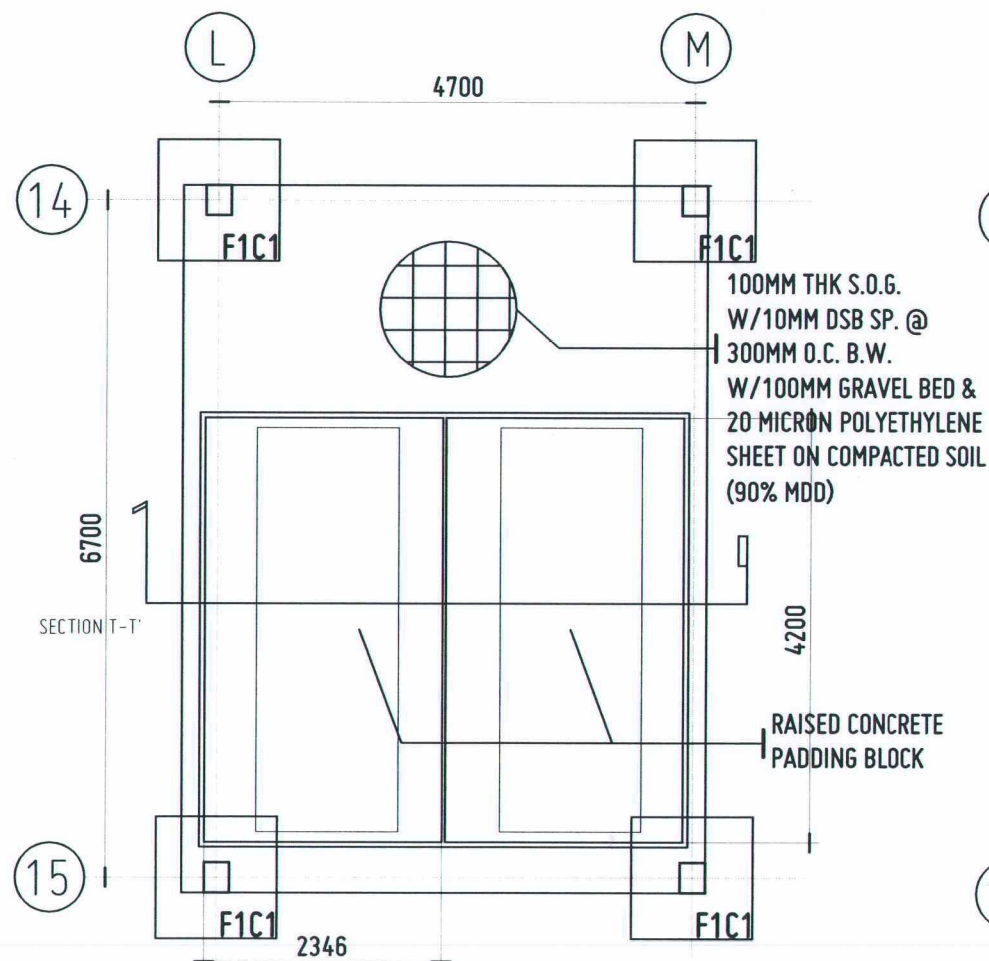
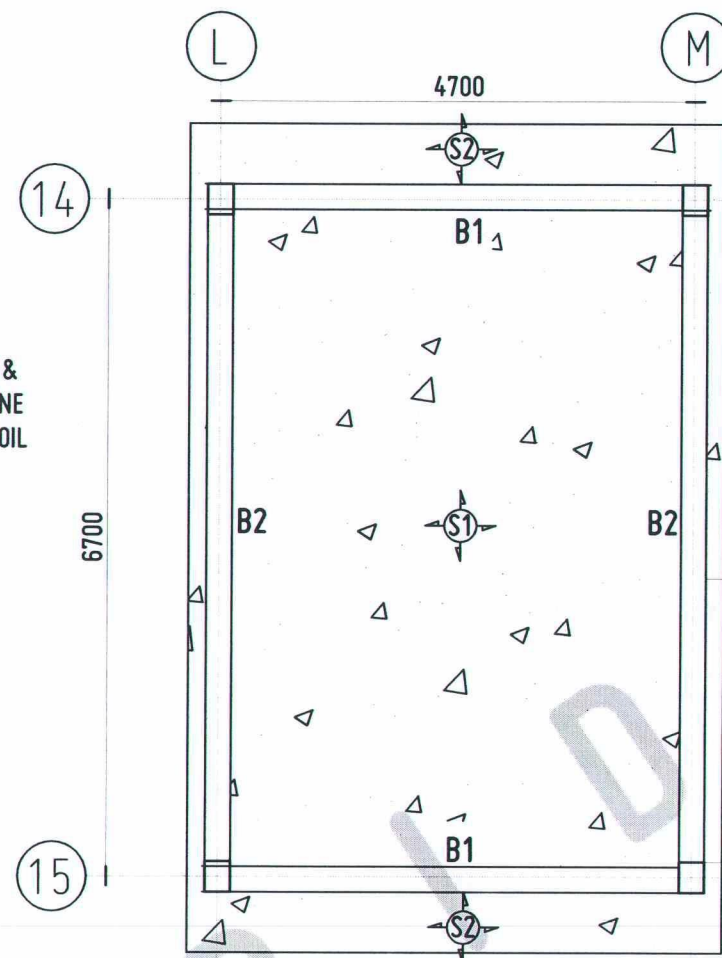




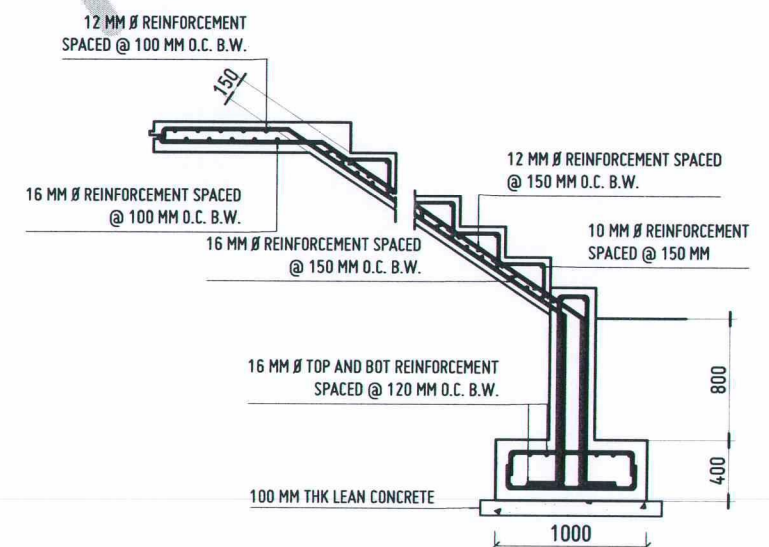
FOUNDATION PLAN
SCALE 1:75 MTS



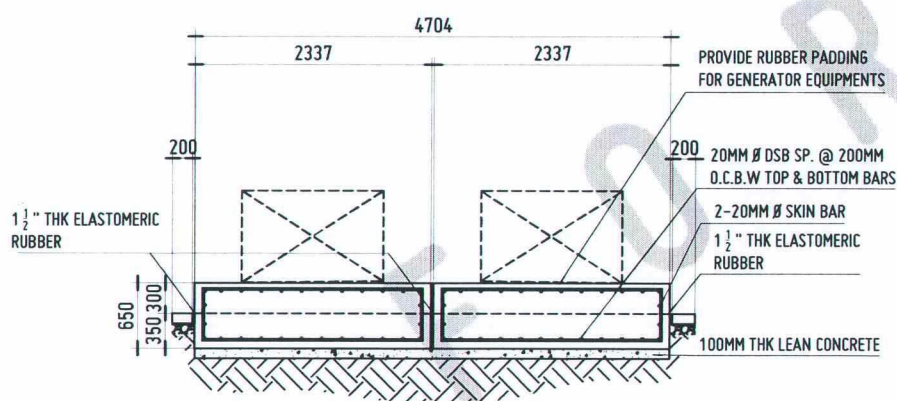
POWERHOUSE DECK PLAN
SCALE 1:75 MTS

LEVEL	MARK	THICKNESS	SCHEDULE OF SLABS			
			REBARS SPACING ALONG X-DIRECTION		REBARS SPACING ALONG Y-DIRECTION	
2ND FLR LEVEL	S1	150	TOP REINF.	BOT REINF.	TOP REINF.	BOT REINF.
			12 MM Ø @ 350	12 MM Ø @ 175	12 MM Ø @ 250	12 MM Ø @ 300
	S2	150	TOP REINF.	BOT REINF.	TOP REINF.	BOT REINF.
			12 MM Ø @ 350	12 MM Ø @ 350	12 MM Ø @ 300	12 MM Ø @ 300

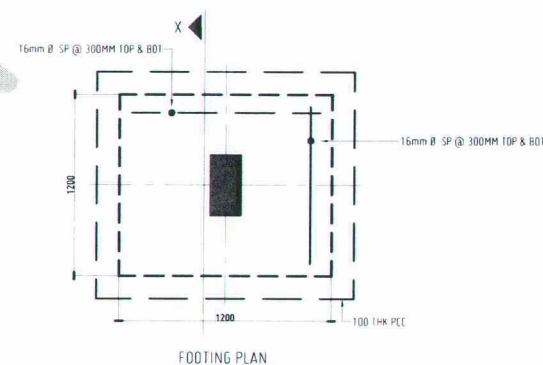
SEE POWERHOUSE STAIR REINFORCEMENT DETAIL



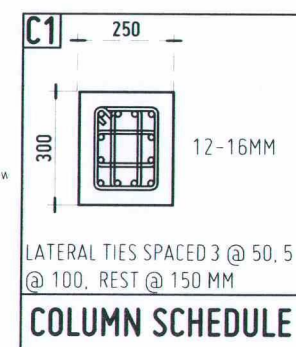
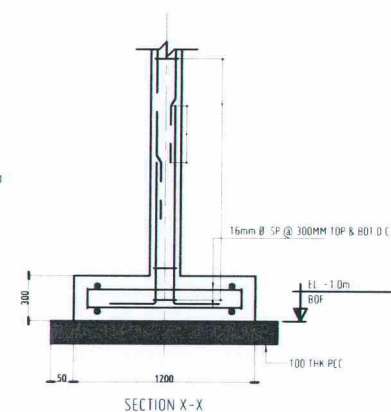
POWERHOUSE STAIR REINFORCEMENT DETAILS
SCALE 1:50 MTS



SECTION THRU T-T'
SCALE 1:75 MTS



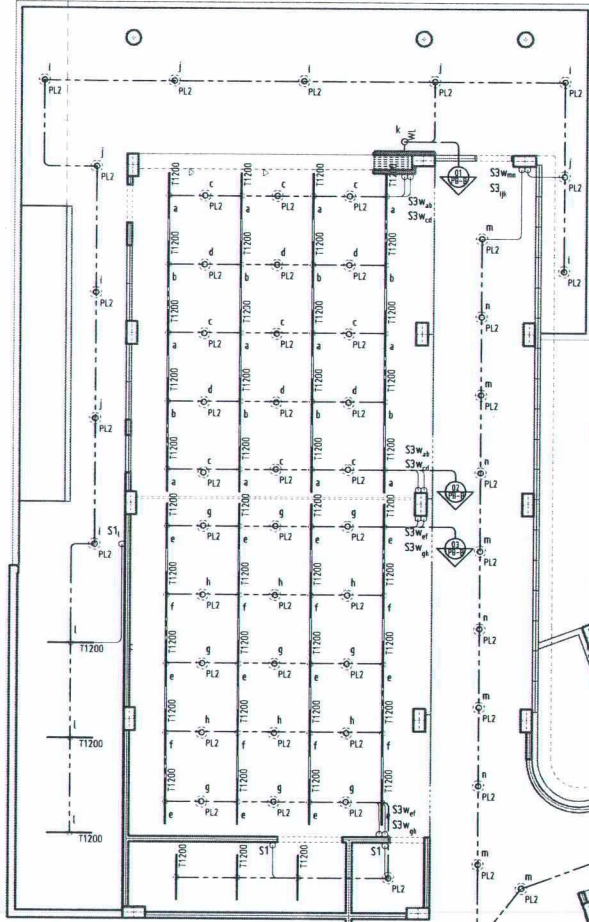
FOOTING (F1) DETAILS
SCALE 1:50 MTS



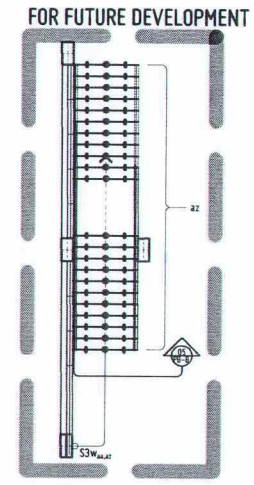
RB1								
	@SUPPORT		@MIDSPAN					
RB2								
	@SUPPORT		@MIDSPAN					
10 MM Ø STIRRUPS SPACED @ 3 @ 50, 5 @ 75, 7 @ 100, 10 @ 125, REST @ 150 MM								
B E A M S C H E D U L E								

POWERHOUSE BEAM AND COLUMN SCHEDULE
SCALE 1:50 MTS

Approved by:

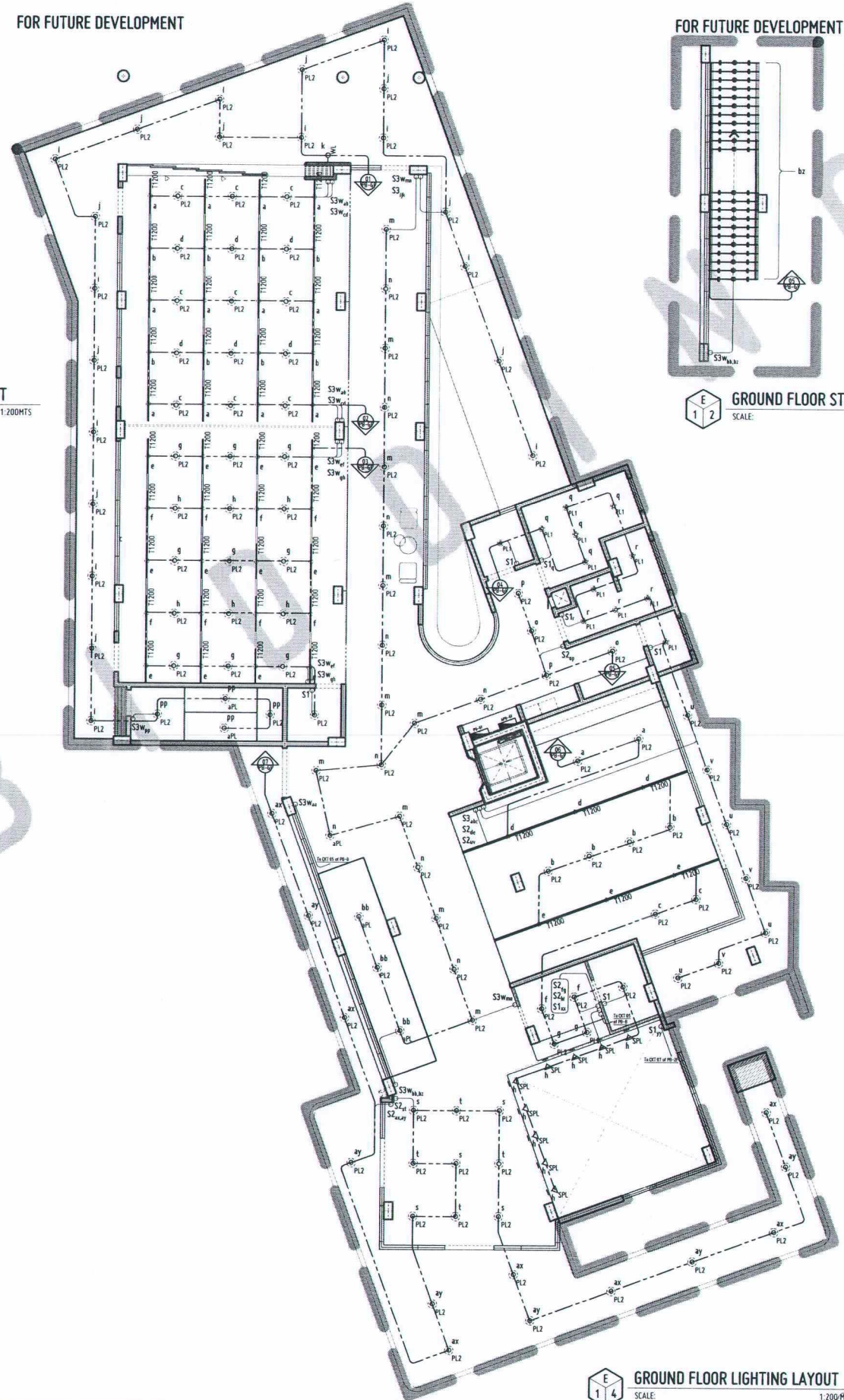


BASEMENT LIGHTING LAYOUT
SCALE: 1:200 MTS

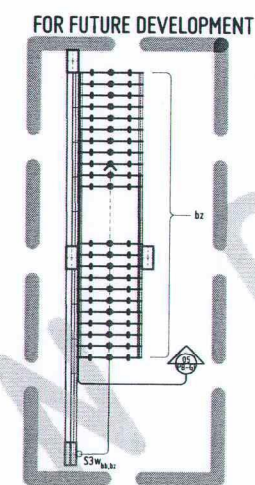


BASEMENT STAIRS STRIP LIGHT LAYOUT
SCALE: 1:200 MTS

FOR FUTURE DEVELOPMENT

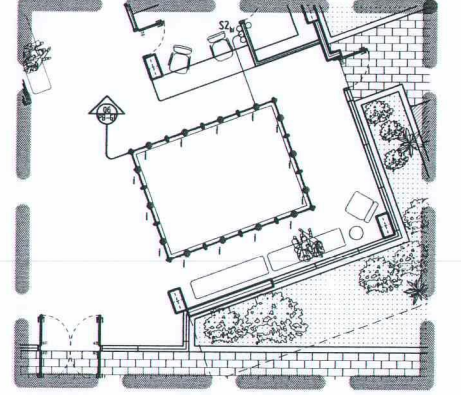


GROUND FLOOR LIGHTING LAYOUT
SCALE: 1:200 MTS

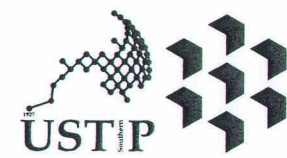


GROUND FLOOR STAIRS STRIP LIGHT LAYOUT
SCALE: 1:200 MTS

FOR FUTURE DEVELOPMENT



GROUND FLOOR MINIATURE MODEL LIGHTING LAYOUT
SCALE: 1:200 MTS



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CAGAYAN DE ORO CAMPUS
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CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000
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WEBSITE: www.ustp.edu.ph

PROFESSIONAL ELECTRICAL ENGINEER	
PRC NO.	PTR NO.
DATE	PLACE
TIN NO.	

PROJECT	CONSTRUCTION OF INNOVATION AND COLLABORATION HUB PHASE II, ALUBIJID (MAIN) CAMPUS
LOCATION	USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL
OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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

RECOMMENDING APPROVAL:	DR. LORY LIZA D. BULAY-OG
DIRECTOR, USTP ALUBIJID	

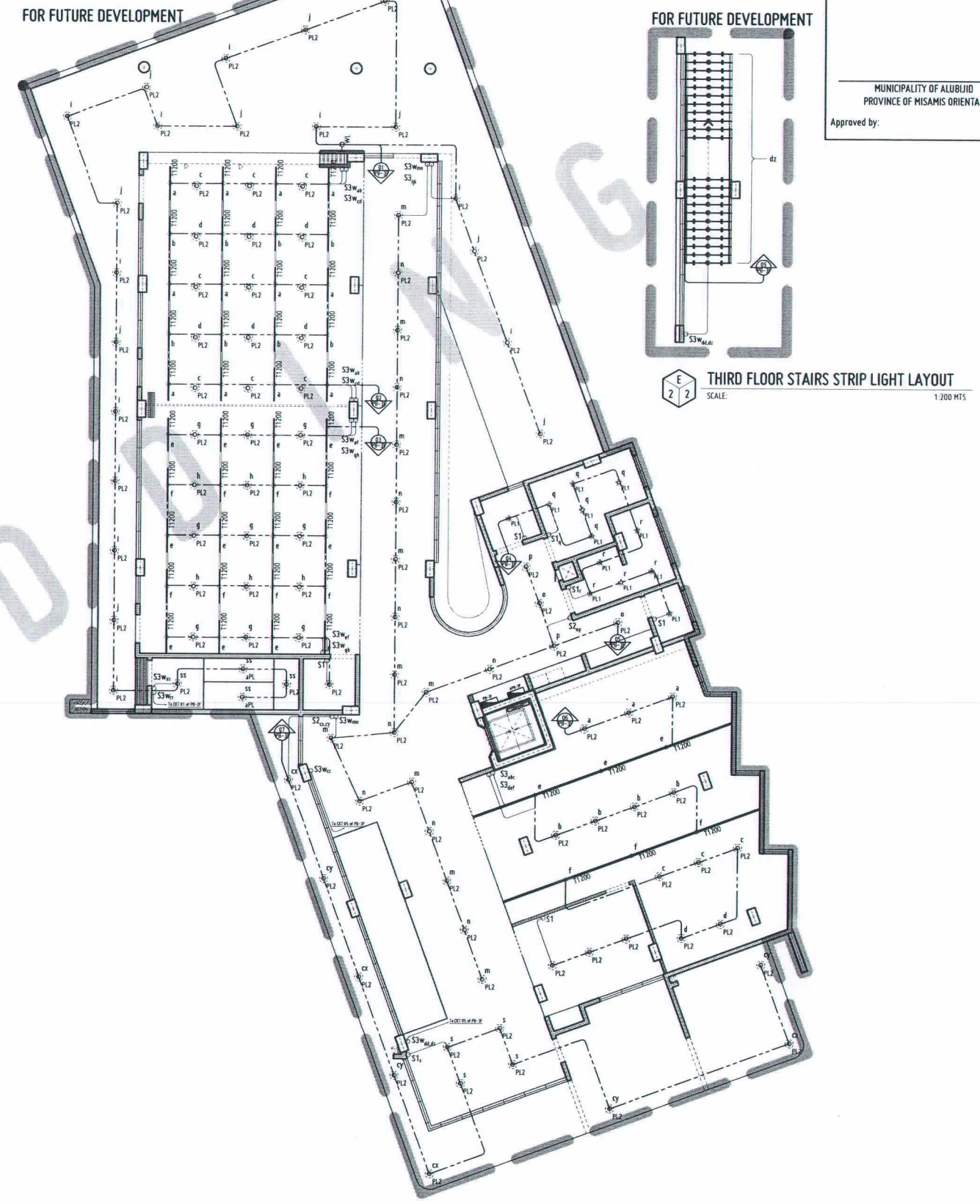
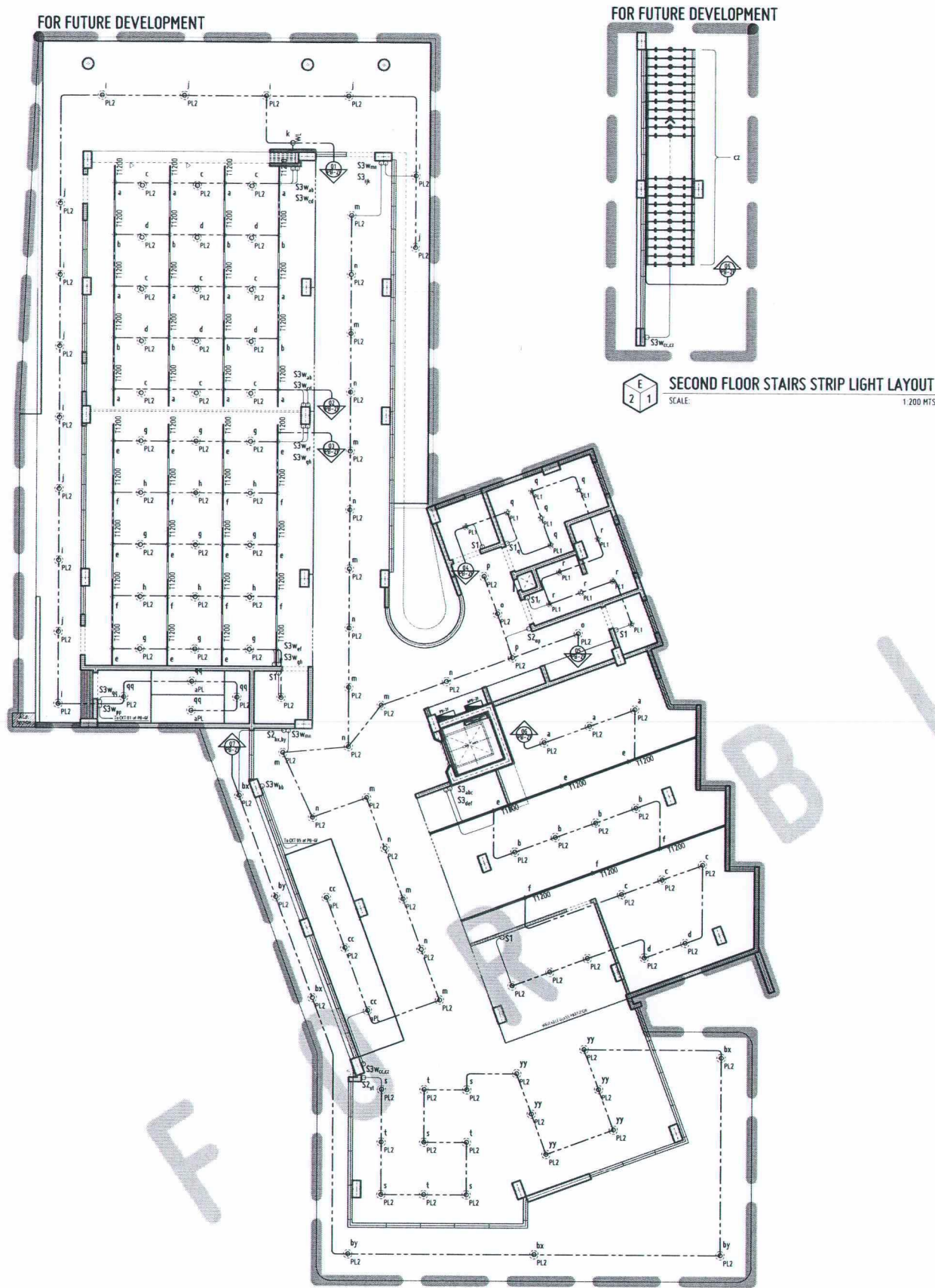
RECOMMENDING APPROVAL:	ATTY. JONATHAN S. OCHE
VP FOR ADMINISTRATION & LEGAL AFFAIRS	

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

SHEET CONTENTS:	BASEMENT STAIRS STRIP LIGHT LAYOUT BASEMENT LIGHTING LAYOUT GROUND FLOOR STAIRS STRIP LIGHT LAYOUT GROUND FLOOR LIGHTING LAYOUT GROUND FLOOR MINIATURE MODEL LIGHTING LAYOUT
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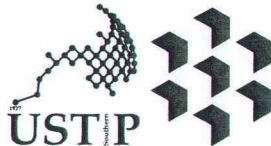
DRAWN BY:	
DATE DRAWN:	
INT:	

Approved by:



SECOND FLOOR LIGHTING LAYOUT
SCALE: 1:200 MTS

THIRD FLOOR LIGHTING LAYOUT
SCALE: 1:200 MTS



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PROFESSIONAL ELECTRICAL ENGINEER	
PRC NO.	PTR NO.
DATE	PLACE
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PROJECT	CONSTRUCTION OF INNOVATION AND COLLABORATION HUB PHASE II, ALUBUJID (MAIN) CAMPUS
LOCATION	USTP AGILA S&T PARK, ALUBUJID, MISAMIS ORIENTAL
OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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

RECOMMENDING APPROVAL:	DR. LORY LIZA D. BULAY-OG DIRECTOR, USTP ALUBUJID
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RECOMMENDING APPROVAL:	ATTY. JONATHAN S. OCHE VP FOR ADMINISTRATION & LEGAL AFFAIRS
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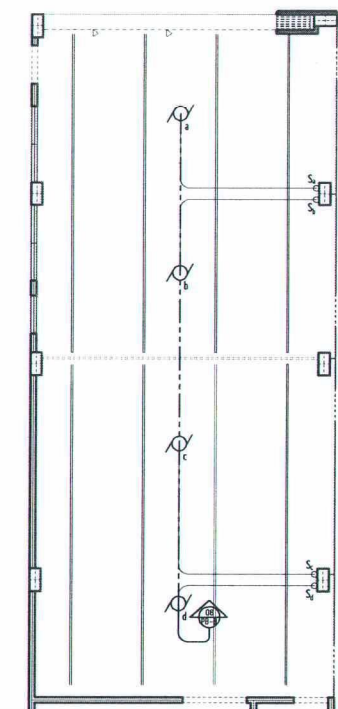
APPROVED BY:	DR. AMBROSIO B. CULTURA II PRESIDENT, USTP SYSTEM
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SHEET CONTENTS:	SECOND FLOOR STAIRS STRIP LIGHT LAYOUT SECOND FLOOR LIGHTING LAYOUT THIRD FLOOR STAIRS STRIP LIGHT LAYOUT THIRD FLOOR LIGHTING LAYOUT
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DRAWN BY:	
DATE DRAWN:	
INT:	

FOR FUTURE DEVELOPMENT

FOR FUTURE DEVELOPMENT



BASEMENT CEILING FAN LAYOUT
SCALE: 1:200 MTS

ROOF DECK LIGHTING LAYOUT
SCALE: 1:200 MTS

BASEMENT FLOOR POWER LAYOUT
SCALE: 1:200 MTS

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PROFESSIONAL ELECTRICAL ENGINEER		PROJECT
PRC NO.	PTR NO.	LOCATION
DATE	DATE	OWNER
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CONSTRUCTION OF INNOVATION AND COLLABORATION HUB PHASE II, ALUBUIJOD (MAIN) CAMPUS	RECOMMENDING APPROVAL:
USTP AGILA S&T PARK, ALUBUIJOD, MISAMIS ORIENTAL	ENGR. GRACE C. BABA
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
DR. LORY LIZA D. BULAY-OG
DIRECTOR, USTP ALUBUIJOD

RECOMMENDING APPROVAL:
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VP FOR ADMINISTRATION & LEGAL AFFAIRS

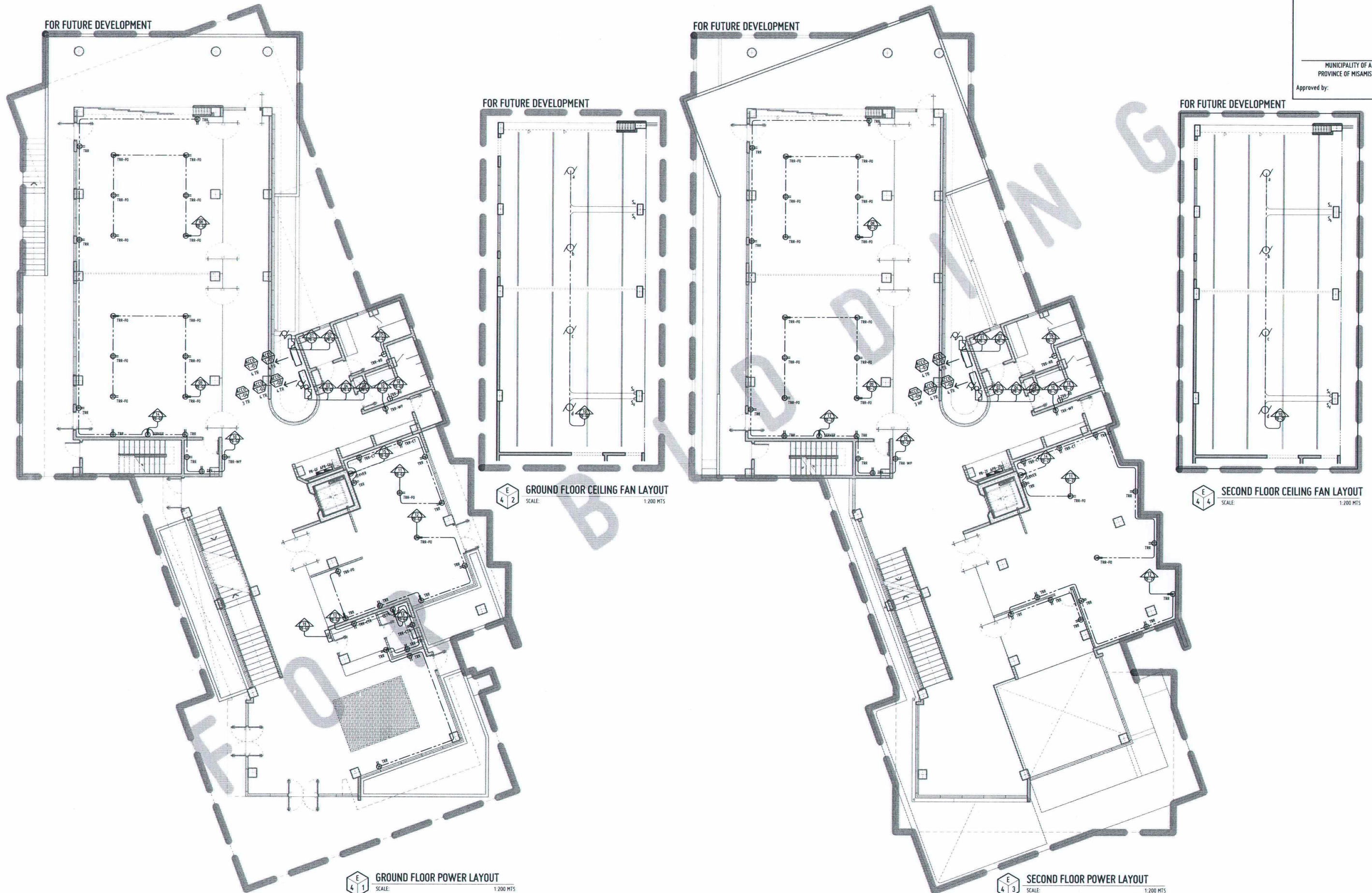
RECOMMENDING APPROVAL:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

APPROVED BY:

SHEET CONTENTS:
ROOF DECK LIGHTING LAYOUT
BASEMENT FLOOR POWER LAYOUT
BASEMENT CEILING FAN LAYOUT

DRAWN BY:
DATE DRAWN:
FMT:

E3



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PROFESSIONAL ELECTRICAL ENGINEER		PROJECT
PTR NO.	PTR NO.	LOCATION
DATE	DATE	OWNER
PLACE	PLACE	

CONSTRUCTION OF
INNOVATION AND COLLABORATION HUB PHASE II,
ALUBIJD (MAIN) CAMPUS
USTP AGILA S&T PARK, ALUBIJD, MISAMIS ORIENTAL
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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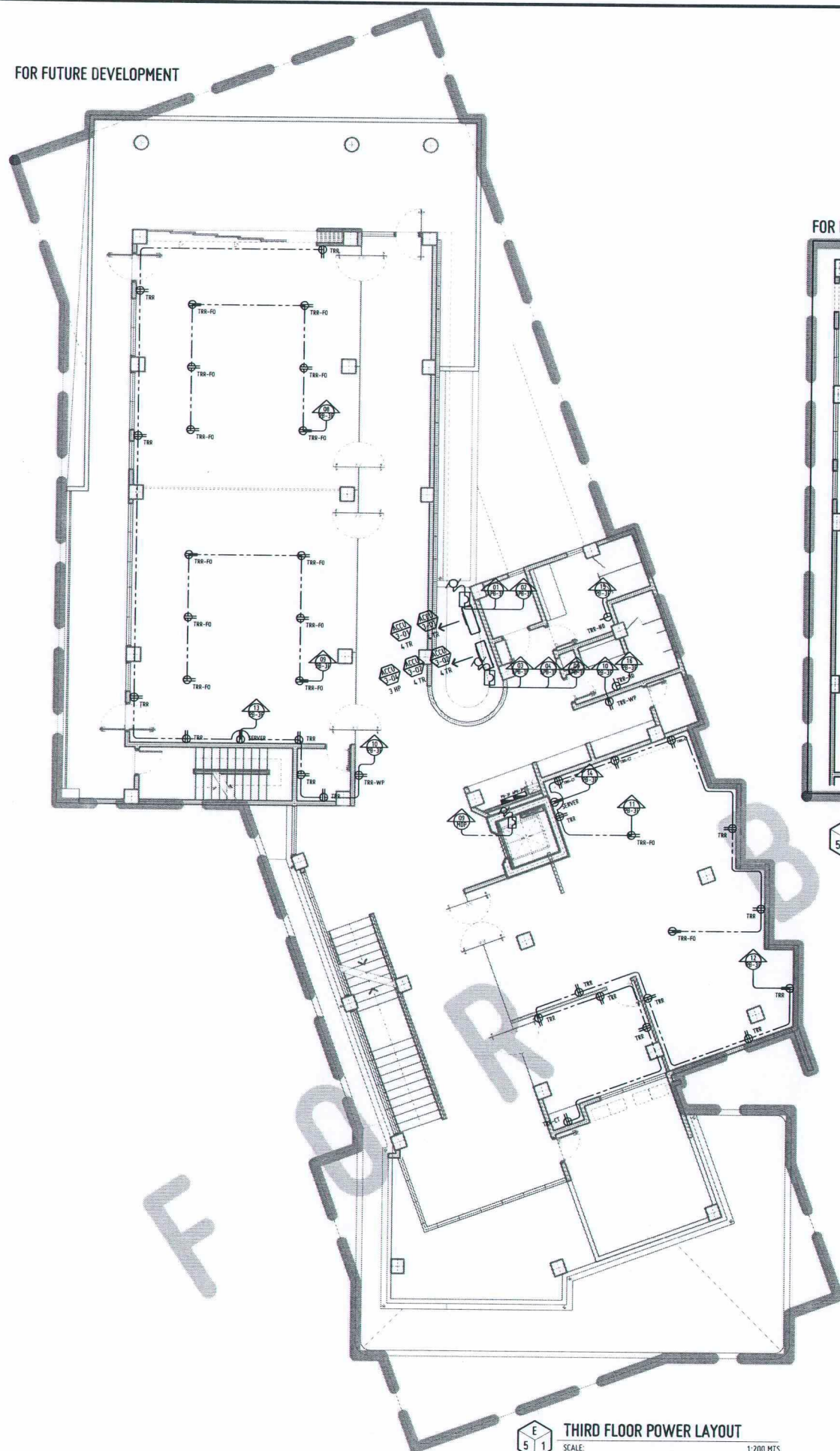
APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
GROUND FLOOR LIGHTING LAYOUT
GROUND FLOOR CEILING FAN LAYOUT
SECOND FLOOR POWER LAYOUT
SECOND FLOOR CEILING FAN LAYOUT

DRAWN BY:
DATE DRAWN:
PWT:

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FOR FUTURE DEVELOPMENT

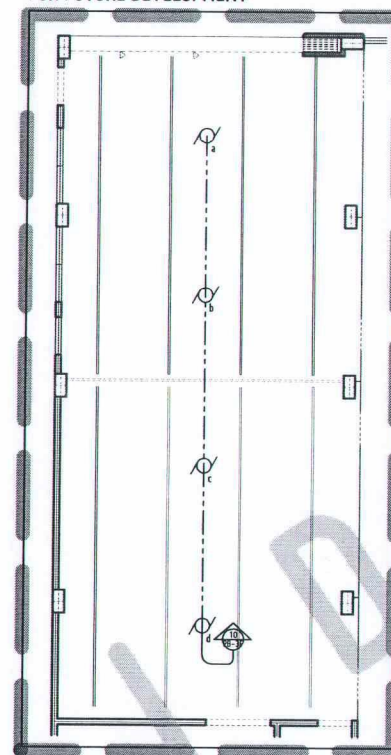


E 5 1

THIRD FLOOR POWER LAYOUT

SCALE: 1:200 MTS

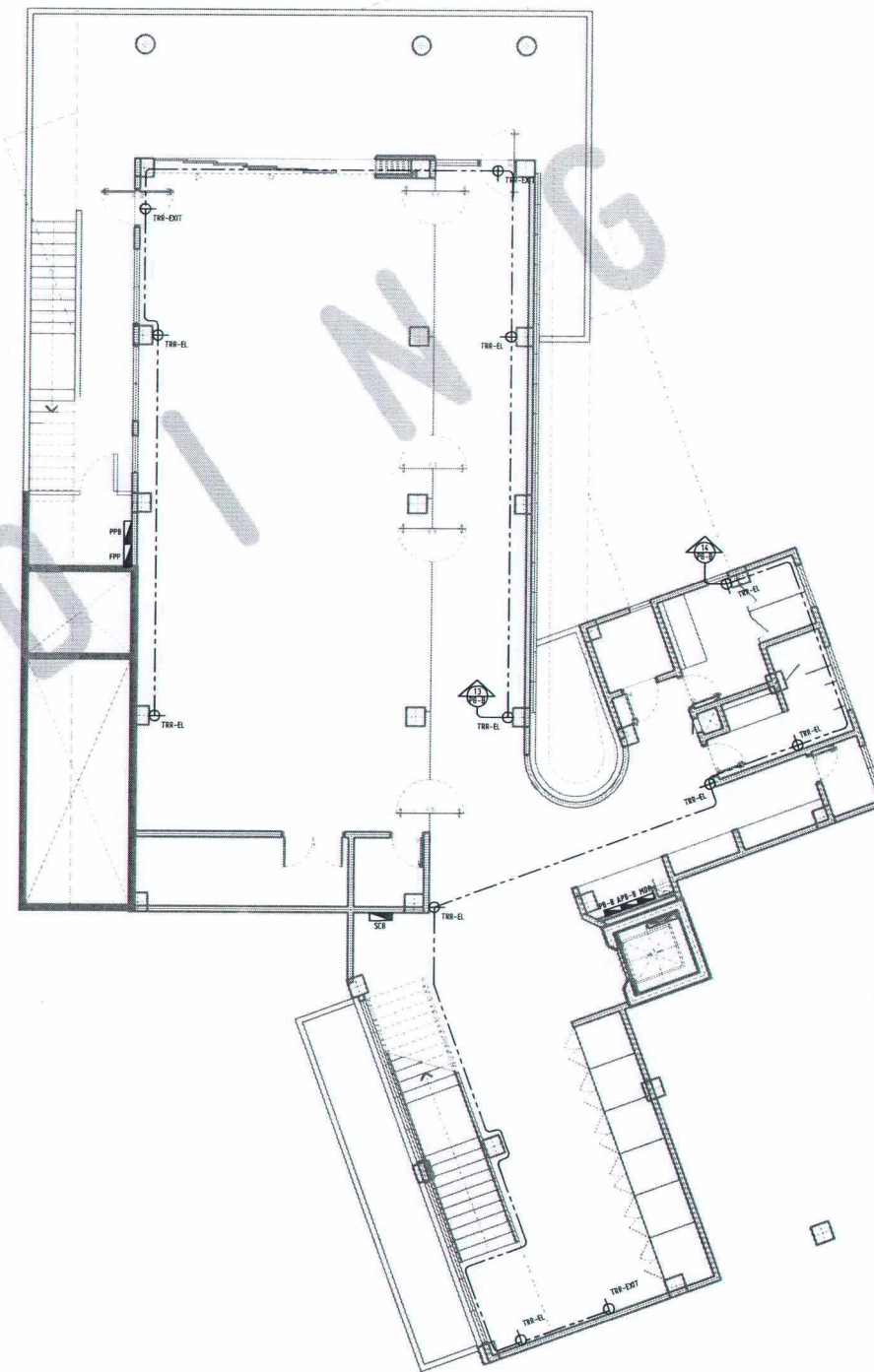
FOR FUTURE DEVELOPMENT



E 5 2

THIRD FLOOR CEILING FAN LAYOUT

SCALE: 1:200 MTS



E 5 3

BASEMENT EMERGENCY LIGHTING LAYOUT

SCALE: 1:200 MTS



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PROFESSIONAL ELECTRICAL ENGINEER

PROJECT

LOCATION

OWNER

DATE

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PROJECT

LOCATION

OWNER

CONSTRUCTION OF
INNOVATION AND COLLABORATION HUB PHASE II,
ALUBIJID (MAIN) CAMPUS

USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL

UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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APPROVED BY:

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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:

THIRD FLOOR LIGHTING LAYOUT
THIRD FLOOR CEILING FAN LAYOUT
BASEMENT EMERGENCY LIGHTING LAYOUT

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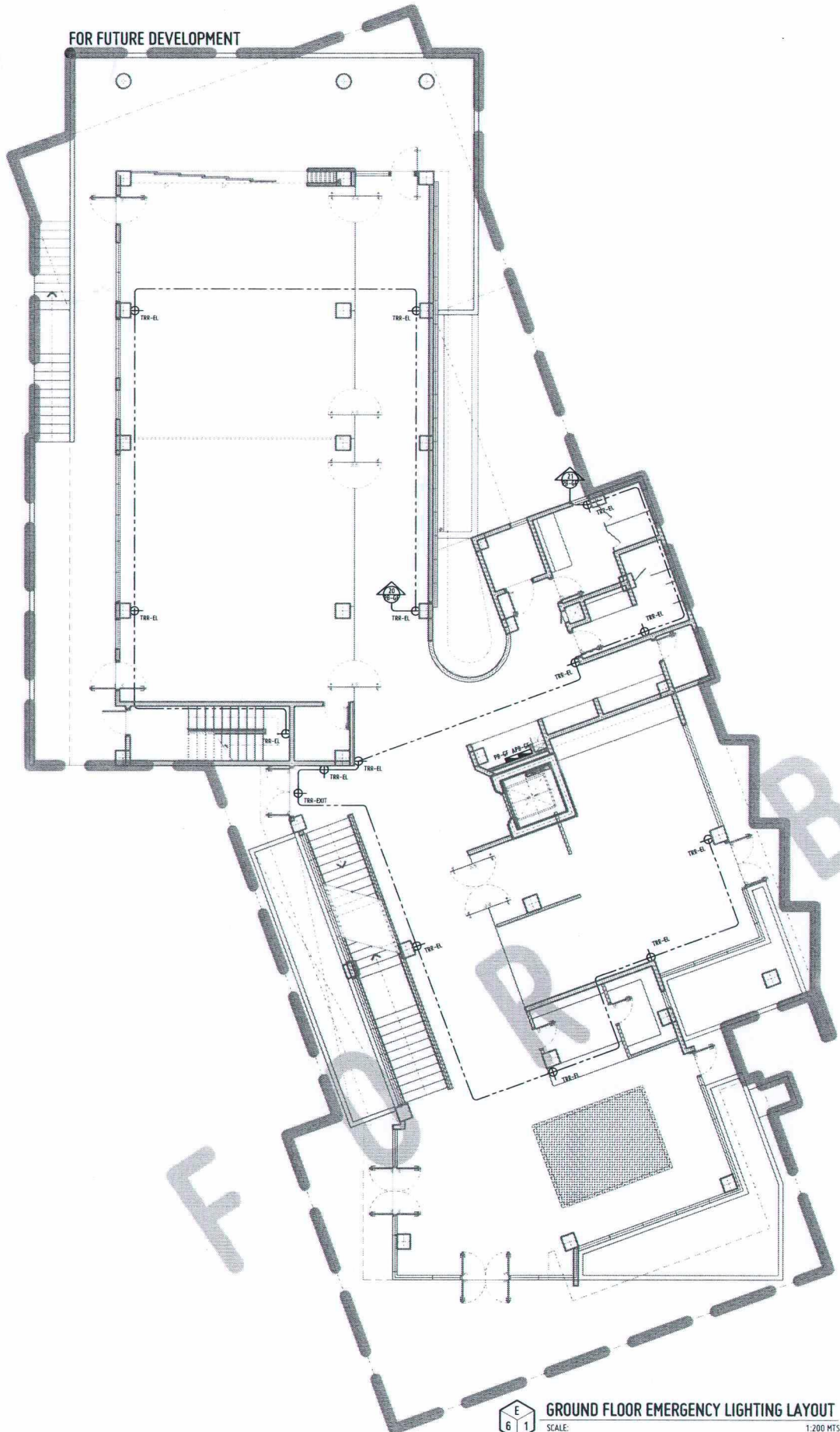
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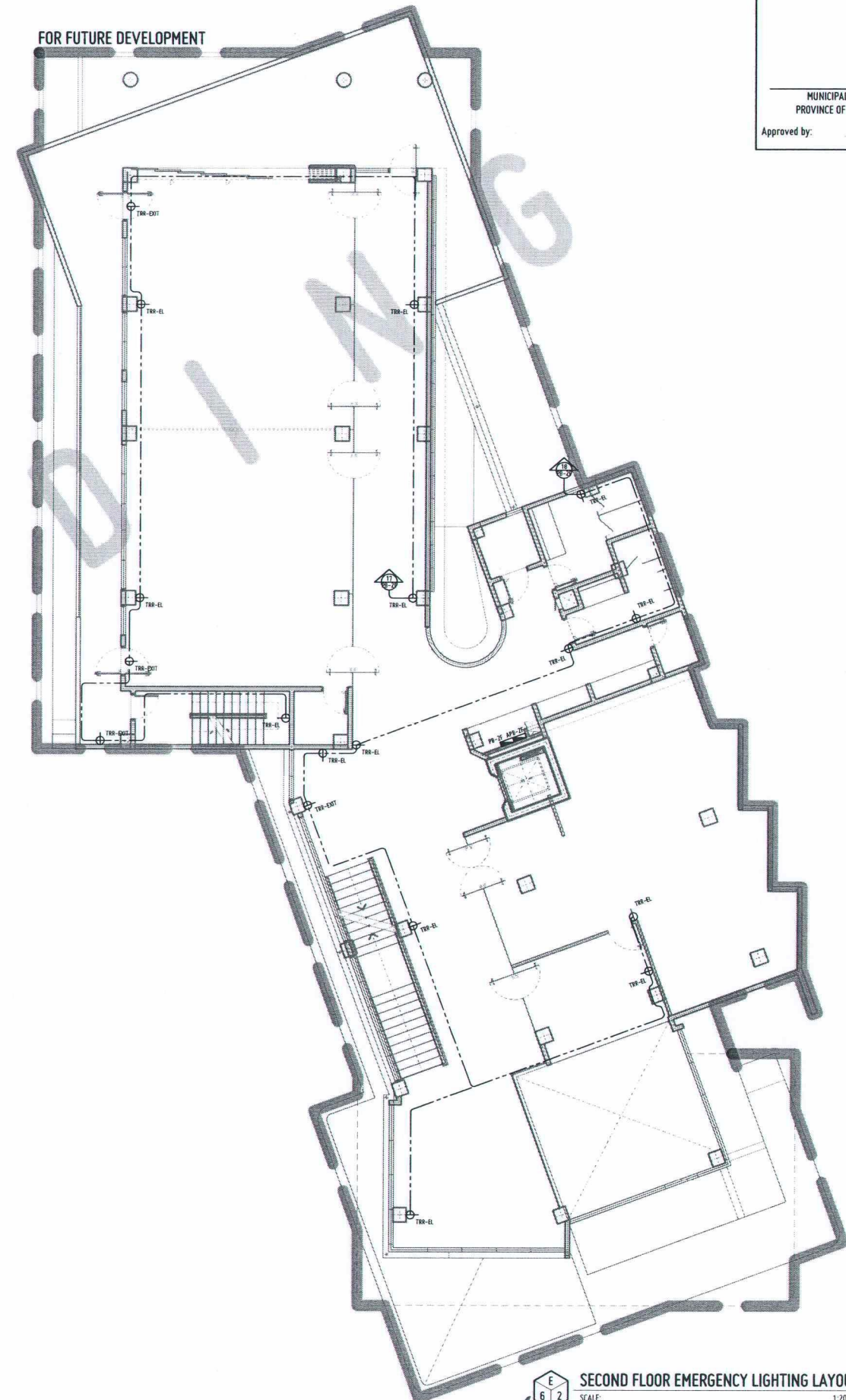
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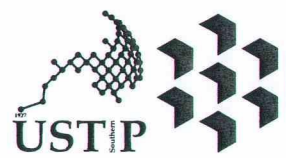


GROUND FLOOR EMERGENCY LIGHTING LAYOUT
SCALE: 1:200 MTS

FOR FUTURE DEVELOPMENT



SECOND FLOOR EMERGENCY LIGHTING LAYOUT
SCALE: 1:200 MTS



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PROFESSIONAL ELECTRICAL ENGINEER		PROJECT
PTR NO.	DATE	LOCATION
TIN NO.	PLACE	OWNER
		CONSTRUCTION OF INNOVATION AND COLLABORATION HUB PHASE II, ALUBIJID (MAIN) CAMPUS
		USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL
		UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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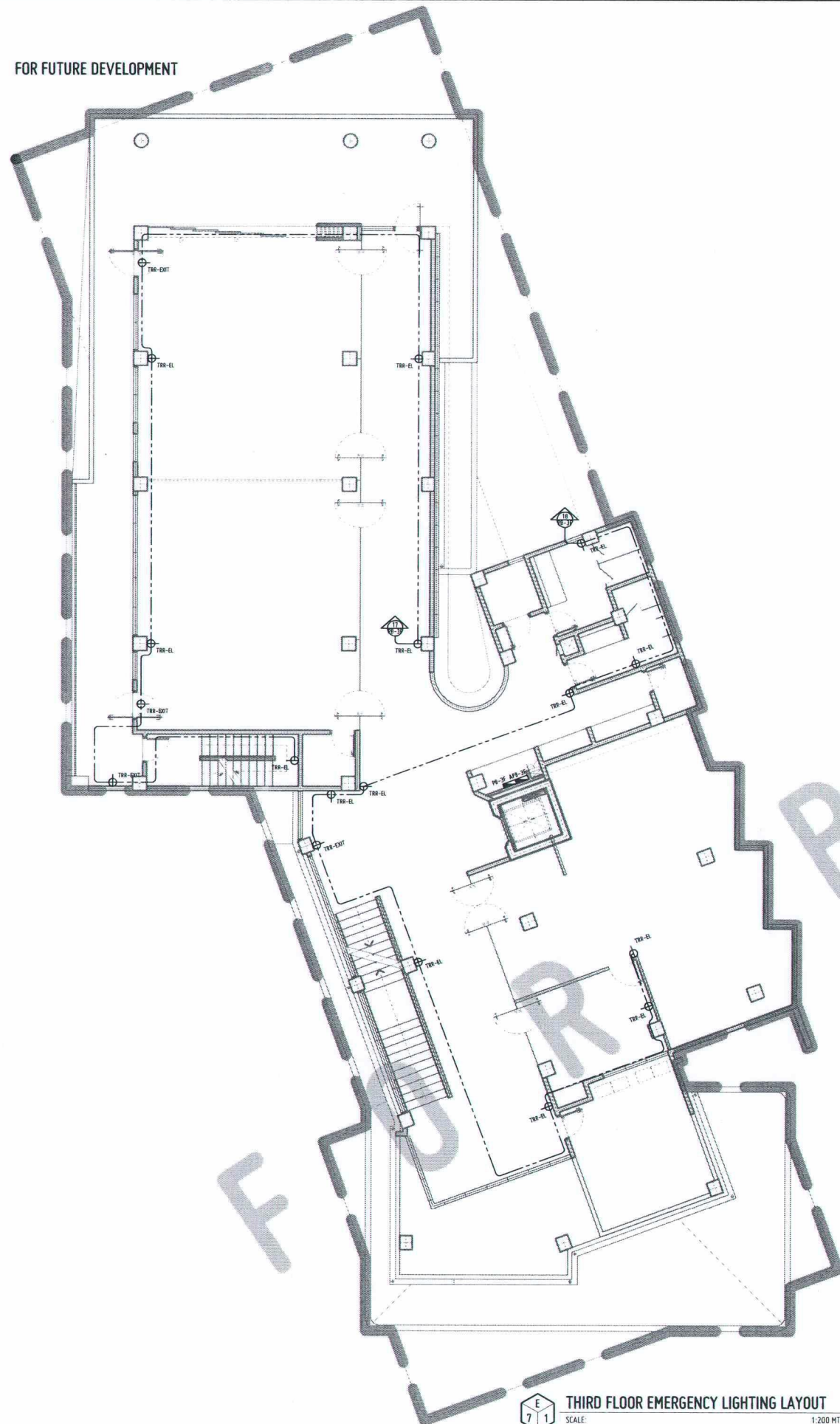
APPROVED BY:

DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:	DRAWN BY:
GROUND FLOOR EMERGENCY LIGHTING LAYOUT	DATE DRAWN:
SECOND FLOOR EMERGENCY LIGHTING LAYOUT	FN:

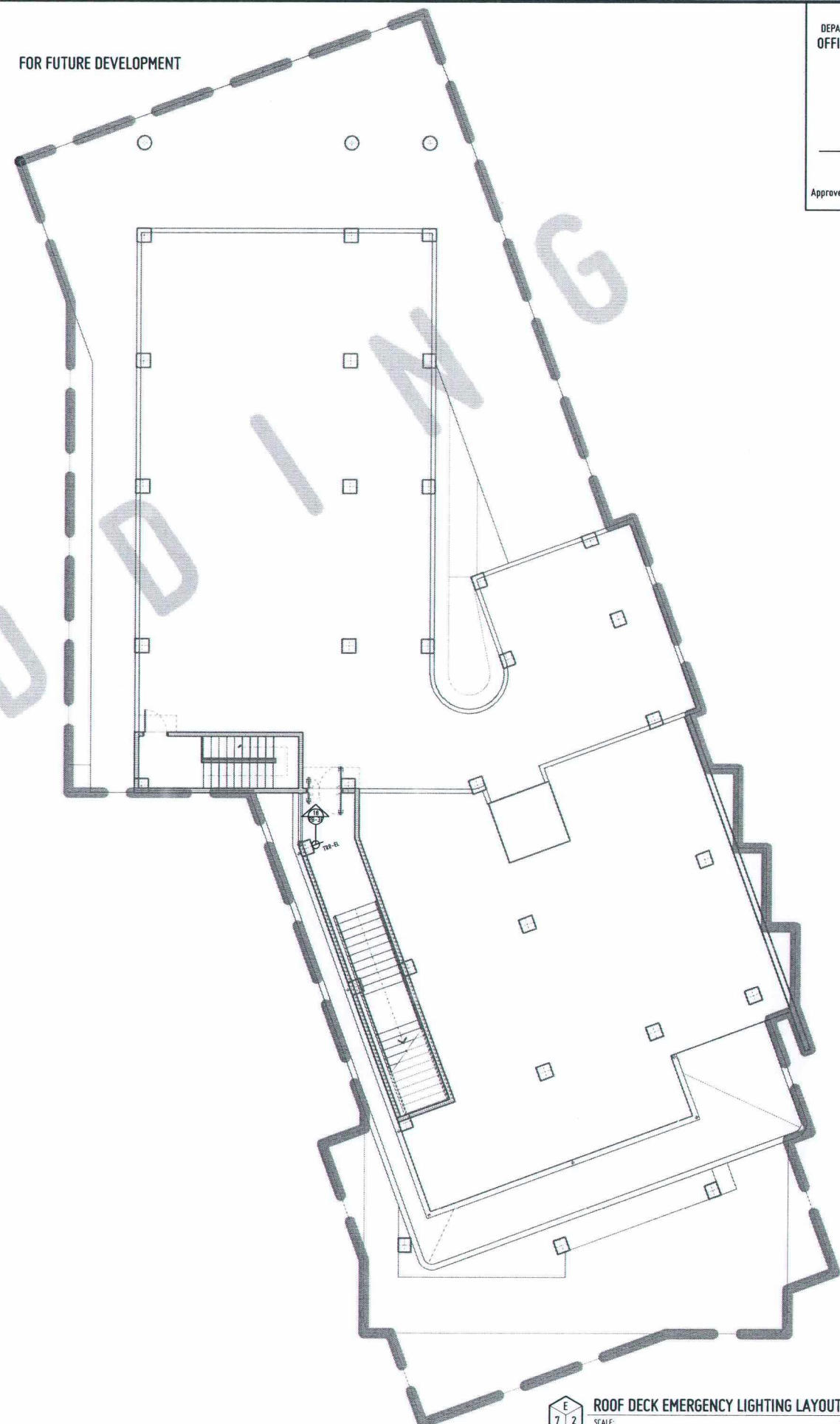
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FOR FUTURE DEVELOPMENT

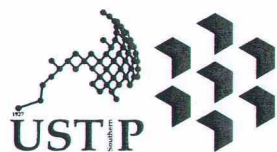


THIRD FLOOR EMERGENCY LIGHTING LAYOUT
SCALE: 1:200 MTS

FOR FUTURE DEVELOPMENT



ROOF DECK EMERGENCY LIGHTING LAYOUT
SCALE: 1:200 MTS



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WEBSITE: www.ustp.edu.ph

PROFESSIONAL ELECTRICAL ENGINEER	
PRC NO.	PTR NO.
DATE	PLACE
TIN NO.	

PROJECT
LOCATION
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CONSTRUCTION OF
INNOVATION AND COLLABORATION HUB PHASE II,
ALUBUIJ (MAIN) CAMPUS
USTP AGILA S&T PARK, ALUBUIJ, MISAMIS ORIENTAL
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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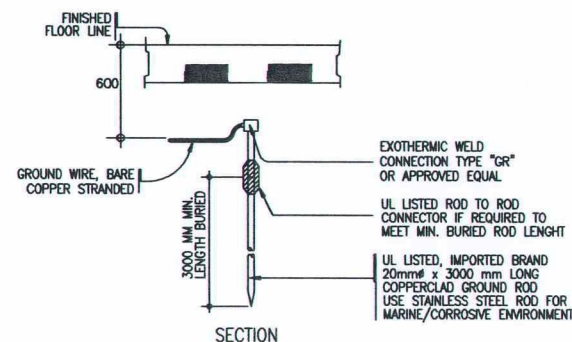
RECOMMENDING APPROVAL:
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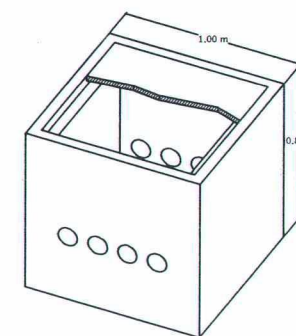
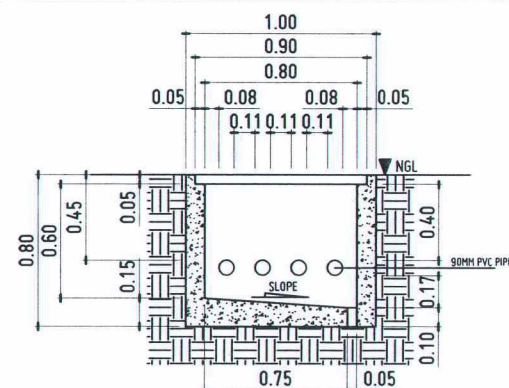
SHEET CONTENTS:
THIRD FLOOR EMERGENCY LIGHTING
LAYOUT
ROOF DECK EMERGENCY LIGHTING
LAYOUT

DRAWN BY:
DATE DRAWN:
PWT:

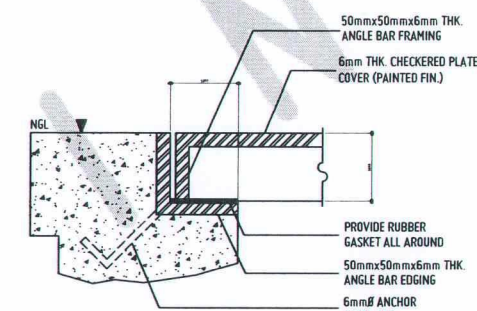
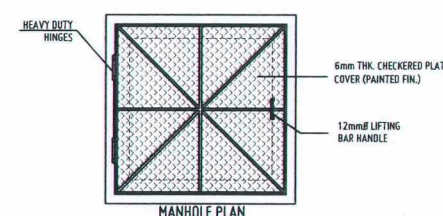
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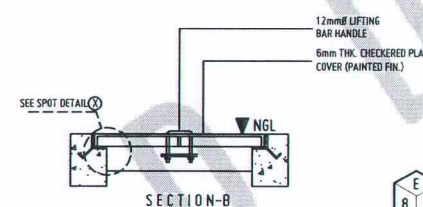
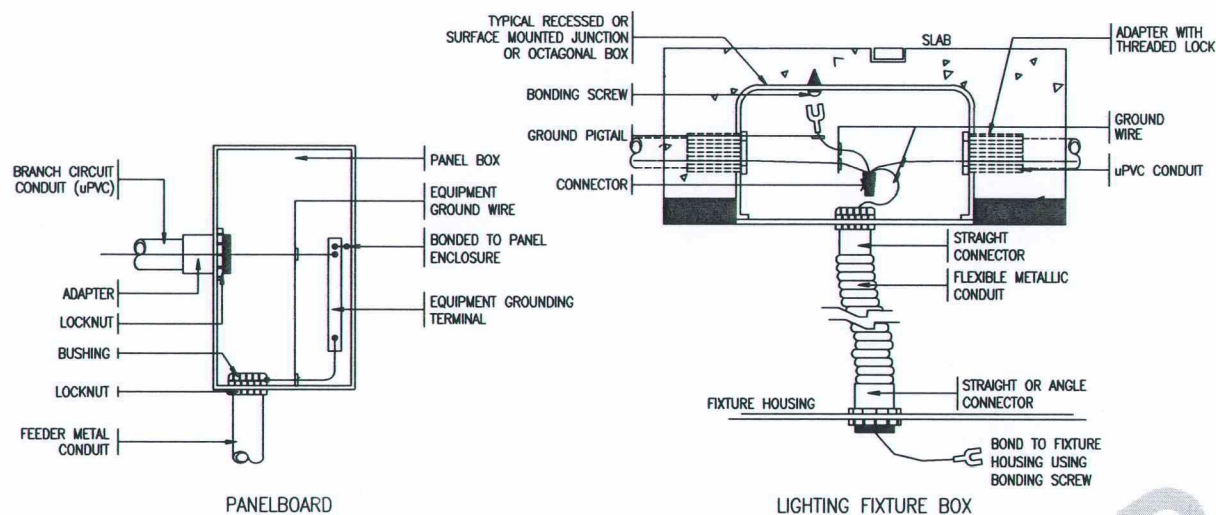
 **TYPICAL GROUND ROD DETAIL**



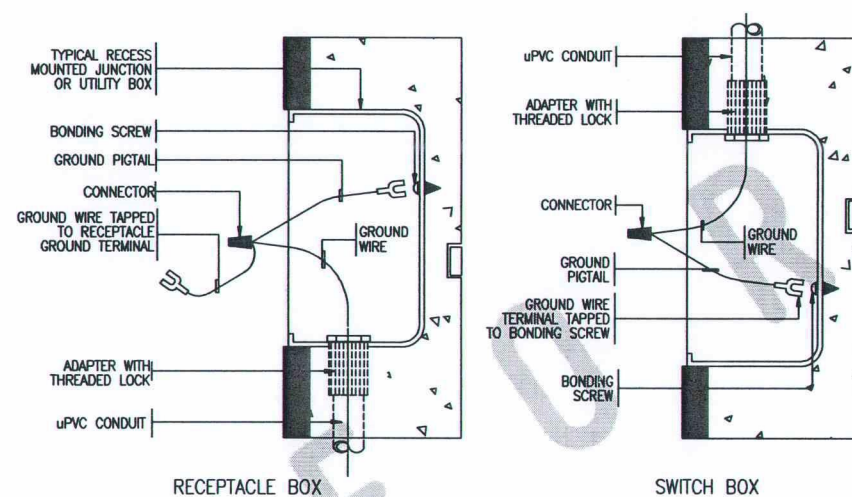
MANHOLE ISOMETRIC VIEW



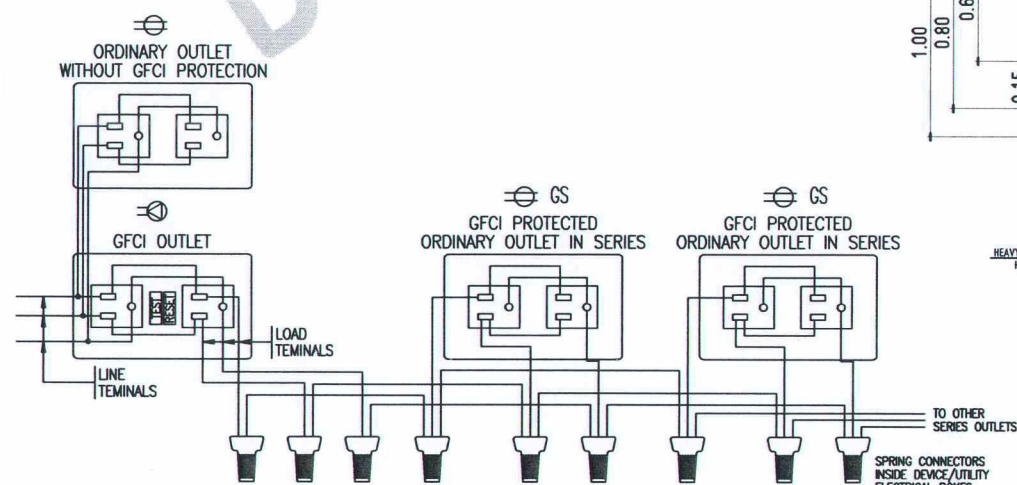
SPOT DETAIL-X



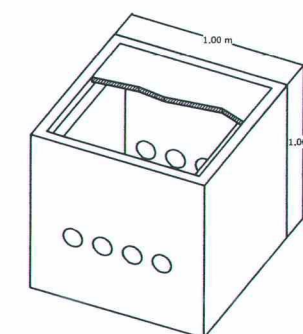
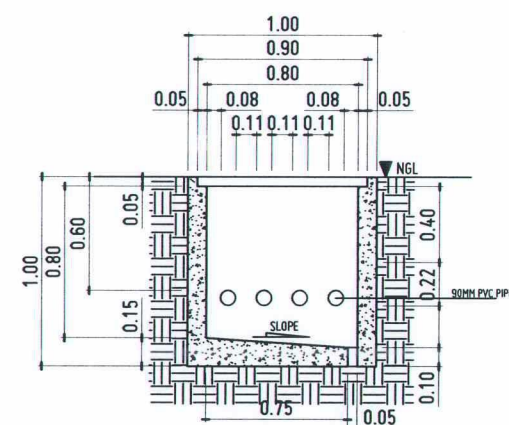
 **ELECTRICAL MANHOLE A DETAIL**



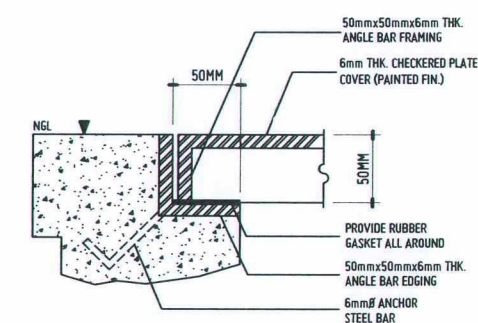
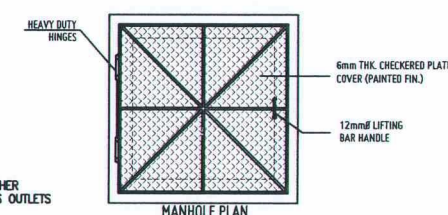
TYPICAL GROUNDING CONNECTION DETAILS



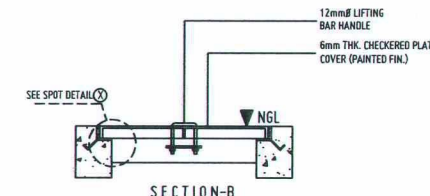
CONV. OUTLET IN SERIES WITH GCFI
OUTLET WIRING CONNECTION DETAIL



MANHOLE ISOMETRIC VIEW



SPOT DETAIL-X



 **ELECTRICAL MANHOLE B DETAIL**

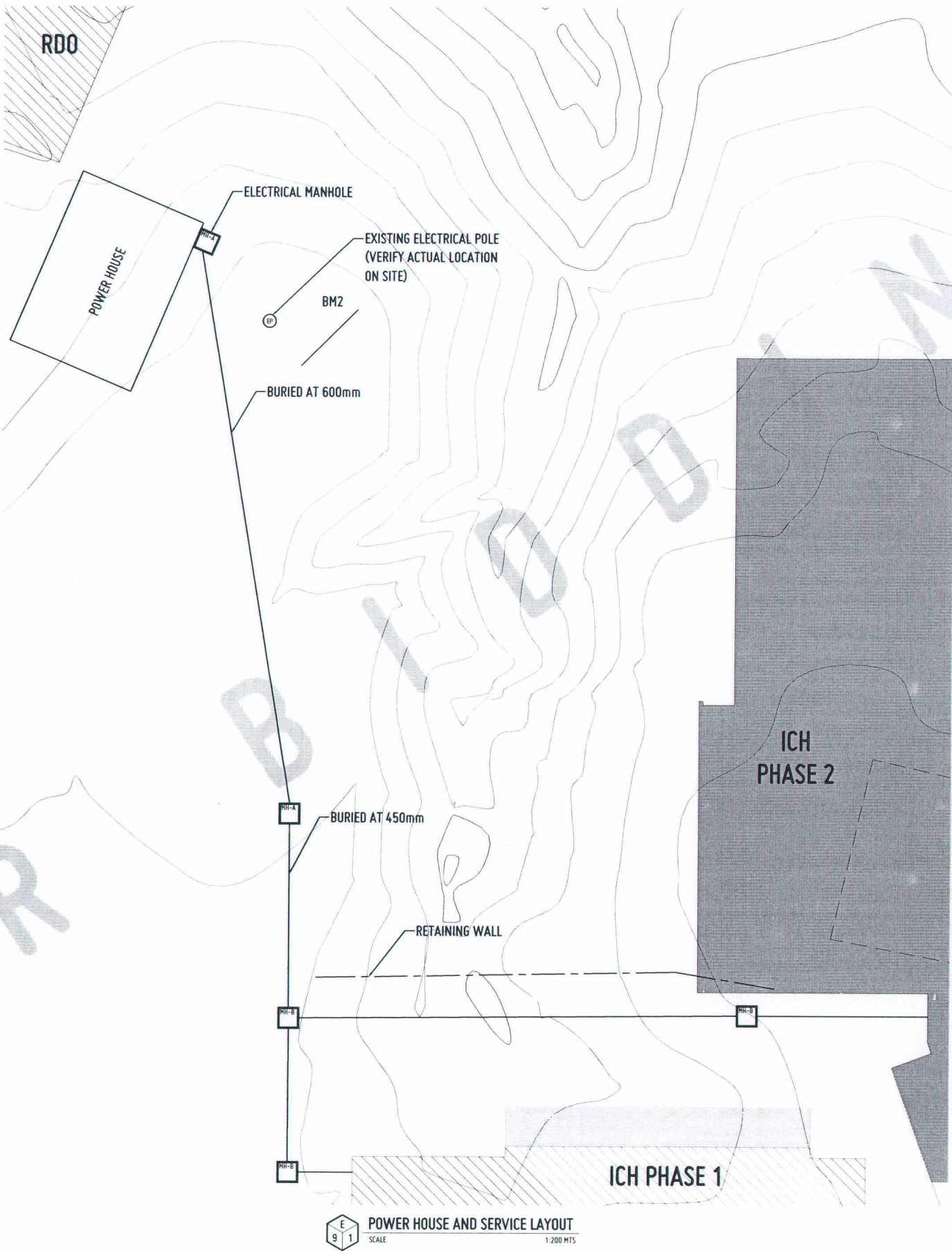
GENERAL NOTES:

1. 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.
2. POWER SERVICE TO THE BUILDING SHALL BE 230 VOLTS 3 PHASE 3 WIRE & GROUND.
3. SMALLEST CONDUCTOR FOR POWER AND LIGHTING SHALL BE 3.5mm² AND SMALLEST RACEWAY SHALL BE 20mm DIA. TRADE SIZE. CONDUCTOR SHALL BE TYPE THHN EXCEPT AS OTHERWISE REQUIRED BY THE DRAWING AND INSULATED FOR 600 VOLTS.
4. GROUNDING WIRE SHALL BE PROVIDED TO ALL EQUIPMENTS, OUTLETS AND LIGHTING CIRCUITS AND ALL NON-CURRENT CARRYING METAL PARTS.
5. 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.
6. NO BRANCH CKT. SHALL HAVE A LOAD OF MORE THAN 80% OF ITS RATING.
7. EMERGENCY LIGHTING SHALL BE PROVIDED WITH A DEDICATED CIRCUIT.
8. CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. USE ONLY ONE BRAND ALL THROUGHOUT.
9. MOUNTING HEIGHT SHALL BE AS FOLLOWS:
- a. LIGHT CONTROL SWITCH - 1.52 ABOVE FINISHED FLOOR
 - b. CONVENIENCE OUTLET - 0.30 ABOVE FINISHED FLOOR
 - c. COUNTER TOP CONVENIENCE OUTLET - 1.05 ABOVE FINISHED FLOOR
 - d. SPECIAL PURPOSE OUTLET - 0.30 ABOVE FINISHED FLOOR OR AS REQUIRED BY THE ARCHITECT
 - e. PANEL BOARDS, FIRE ALARM-PANEL - 1.80 FROM TOP OF PANEL TO FINISHED FLOOR
10. ALL WORKS SHALL BE COORDINATED WITH THE ARCHITECT AND OTHER TRADE DISCIPLINE PRIOR TO INSTALLATION.
11. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ELECTRICAL ENGINEER.
12. CONTRACTOR TO PERFORM ALL TEST NECESSARY BUT NOT LIMITED TO THE FOLLOWING.
- a. CABLE INSULATION INTEGRITY TEST
 - b. PHASE SEQUENCE TEST
 - c. LOAD TEST
 - d. COMPLETE TEST FOR TRANSFORMER
13. ALL WIRES SHALL BE COLOR CODED AS FOLLOWS:
- PHASE - A - BLACK GROUND - GREEN
 - PHASE - B - RED PHASE - C - BLUE
14. NO CHANGE OR MODIFICATION SHALL BE MADE ON THESE PLANS WITHOUT THE ENGINEER'S/OWNER'S WRITTEN COMMENT.
15. ALL MOTOR AND AIR-CONDITIONING UNIT WIRING AND PROTECTION SHALL COMPLY WITH PHILIPPINE ELECTRICAL CODE AND EQUIPMENT NAMEPLATES.
16. ALL MOTOR AND AIR-CONDITIONING UNIT PROTECTIVE DEVICES SHALL HAVE INDIVIDUAL ENCLOSED INVERSE-TIME (THERMAL-MAGNETIC) CIRCUIT BREAKER, PROPERLY COORDINATED WITH MOTOR OVERLOAD PROTECTION.
17. ALL CONVENIENCE OUTLETS SHALL BE TAMPER-RESISTANT (TRR).
18. EMERGENCY LIGHTING AND EXIT SIGNAGE OUTLETS SHALL BE CEILING-MOUNTED.

IMPORTANT NOTES

1. STRUCTURAL DESIGN/DETAILS OF PEDESTAL, DUCTBANK AND GENERATOR PADS SHALL BE COORDINATED WITH STRUCTURAL ENGINEER PRIOR TO IMPLEMENTATION
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH POWER UTILITY COMPANY FOR TOTAL LOAD REQUIREMENTS OF THE PROJECT TO ASSURE AVAILABILITY OF 3-PHASE OR 1-PHASE TO BE SUPPLIED BY THE UTILITY COMPANY. THIS SHALL BE DONE PRIOR TO FABRICATION OR PURCHASE OF PANELBOARD & INSTALLATION OF SERVICE & FEEDERS.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF SERVICE PEDESTAL WITH EXISTING UTILITY POLE AT SITE & WITH ELECTRIC UTILITY COMPANY PRIOR TO IMPLEMENTATION. IN GENERAL, LOCATE PEDESTAL ON THE SIDE NEAR THE EXISTING POLE.
4. A=3.0M FOR PEDESTRIAN AREAS
=3.7M FOR DRIVEWAYS SUBJECT TO CAR TRAFFIC
=5.5M FOR DRIVEWAYS/STREET SUBJECT TO TRUCK TRAFFIC
5. UNDERGROUND SERVICE CONDUITS SHALL BE BURIED AT A MINIMUM DEPTH AS FOLLOWS
- a. 0.45 M FOR RUNS IN LANDSCAPED OR NON-VEHICULAR AREAS USING RSC
 - b. 0.60 M FOR ROAD CROSSINGS OR VEHICULAR ZONES USING RSC OR PVC ENCASED IN CONCRETE

6. WARNING TAPE INTENDED FOR UNDERGROUND ELECTRICAL SERVICE SHALL BE PLACED 0.3M ABOVE ALL CONDUIT RUNS.



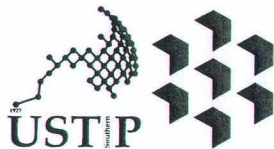
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

MUNICIPALITY OF ALUBIJID
PROVINCE OF MISAMIS ORIENTAL

Approved by:

T1200	28W LED T5 BATTEN FLUORESCENT, DAYLIGHT, WITH FIXTURE BASE AND SUPPORT
PL1	13 WATTS LED, DAYLIGHT, WITH 3" ROUND MATT WHITE HOUSING RECESSED DOWNLIGHT
PL2	18 WATTS LED, DAYLIGHT, WITH 4" ROUND MATT WHITE HOUSING RECESSED DOWNLIGHT
aPL	18 WATTS LED, DAYLIGHT, WITH 4" ROUND MATT WHITE HOUSING RECESSED ANGLE DOWNLIGHT
WL	12 WATTS LED, 3000K WARM WHITE/SOFTWHITE, WALL MOUNTED LIGHT
SPL	6 WATTS LED, 3000K WARM WHITE, TRACK LIGHT
SL1	7 WATTS LED, 3000K WARM WHITE/SOFTWHITE, GARDEN LIGHT
SL	4.8 WATTS/METER WARM WHITE LED STRIP LIGHT
S1	ONE GANG SWITCH
S2	TWO GANG SWITCH
S3	THREE GANG SWITCH
S3w	THREE WAY SWITCH
TRR	SIMPLEX TAMPER RESISTANT RECEPTACLE (TRR) UNIVERSAL CONVENIENCE OUTLET
TRR	DUPLEX TAMPER RESISTANT RECEPTACLE (TRR) UNIVERSAL CONVENIENCE OUTLET
TRR-WP	DUPLEX TAMPER RESISTANT RECEPTACLE (TRR) UNIVERSAL CONVENIENCE OUTLET WITH WEATHERPROOF COVER
TRR-CT	DUPLEX TAMPER RESISTANT RECEPTACLE (TRR) UNIVERSAL COUNTER TOP CONVENIENCE OUTLET
TRR-F0	DUPLEX TAMPER RESISTANT RECEPTACLE (TRR) UNIVERSAL CONVENIENCE FLOOR OUTLET
TRR-EL	SIMPLEX TAMPER RESISTANT RECEPTACLE (TRR) UNIVERSAL CONVENIENCE OUTLET FOR EMERGENCY LIGHT
TRR-EXIT	SIMPLEX TAMPER RESISTANT RECEPTACLE (TRR) UNIVERSAL CONVENIENCE OUTLET FOR FIRE EXIT SIGN
GFCI	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (GFCI) UNIVERSAL CONVENIENCE OUTLET
GFCI-HD	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (GFCI) UNIVERSAL CONVENIENCE OUTLET FOR HAND DRYER
GFCI-REF	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (GFCI) UNIVERSAL CONVENIENCE OUTLET FOR REFRIGERATOR
CCTV	CCTV SYSTEM
SERVER	SERVER CABINET CONVENIENCE OUTLET
ACCU	AIR-COOLED CONDENSING UNIT (ACCU)
EF	EXHAUST FAN
CF	CEILING FAN
CH	CIRCUIT HOMERUN
PB	PANEL BOARD
FACP	FIRE ALARM CONTROL PANEL
SP	SERVICE PEDESTAL
ECB	ENCLOSED CIRCUIT BREAKER
EMH	ELECTRICAL MANHOLE

ELECTRICAL LEGEND AND SYMBOLS



REPUBLIC OF THE PHILIPPINES
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PROFESSIONAL ELECTRICAL ENGINEER	
PRC NO.	PTR NO.
DATE	PLACE
TIN NO.	

PROJECT	
CONSTRUCTION OF INNOVATION AND COLLABORATION HUB PHASE II, ALUBIJID (MAIN) CAMPUS	
LOCATION	
USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL	
OWNER	
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES	

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SHEET CONTENTS:	
POWER HOUSE AND SERVICE LAYOUT ELECTRICAL LEGEND AND SYMBOLS	

DRAWN BY:	
DATE DRAWN:	
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