



NOTE : WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE DESIGNER MUST BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

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NOTE : IF IN DOUBT, ASK! DO NOT SCALE!

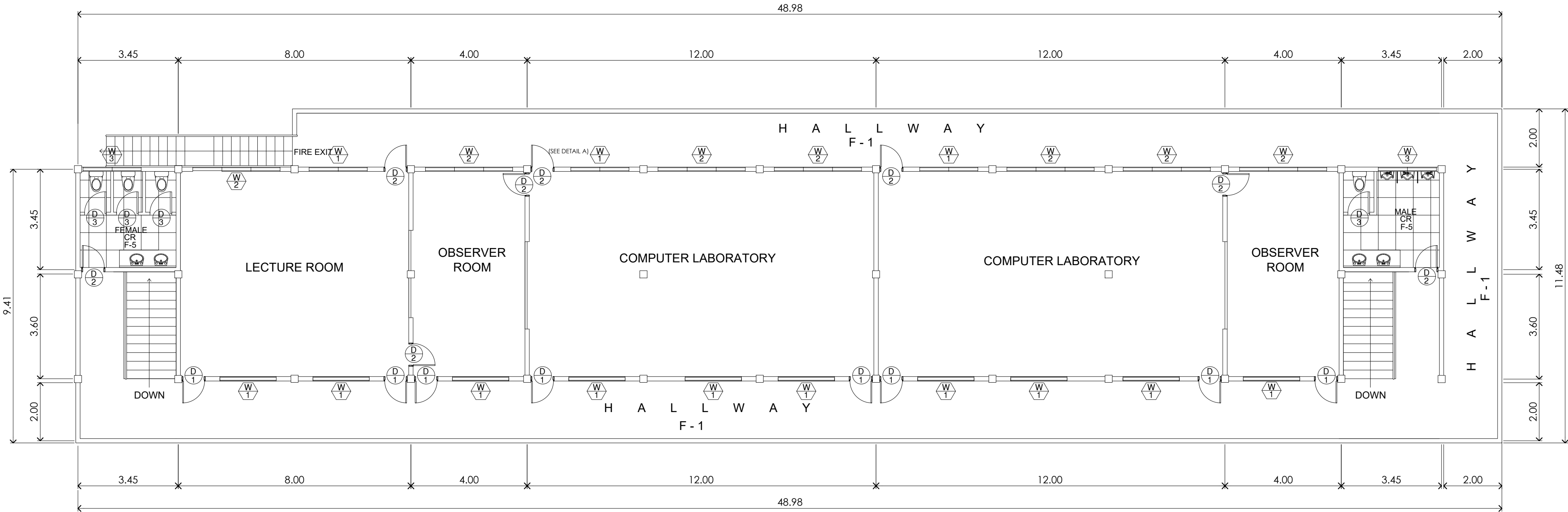
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BATAAN PENINSULA STATE UNIVERSITY
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(PROPOSED)
A SECOND FLOOR PLAN
SCALE : 1:100 MTS

PROJECT TITLE:		
REPAIR OF ICT BUILDING WITH EQUIPMENT AND FIXTURES AT DINALUPIHAN CAMPUS		
LOCATION: DINALUPIHAN CAMPUS BATAAN PENINSULA STATE UNIVERSITY		
STRUCTURAL ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
MASTER PLUMBER/SANITARY ENGINEER		
REG. NO.:		
P.R. NO.:		
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PROFESSIONAL ELECTRICAL ENGINEER		
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PROFESSIONAL MECHANICAL ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
REVISION		
NO.	DESCRIPTION	DATE
2		
PREPARED BY:		
AR. ROXETTE S. UMEREZ ARCHITECT I, BPSU TWG		
REG. NO.:		
P.R. NO.:		
PLACE:		
CHECKED BY:		
AR. JO-ANA Z. TANEGA ARCHITECT I, PPES OFFICE		
REG. NO.:		
P.R. NO.:		
PLACE:		
REVIEWED BY:		
AR. DANILO Y. GALURA ARCHITECT II, TWG CONSULTANT		
RECOMMENDED BY:		
DR. EDMUNDO C. TUNGOL VICE PRESIDENT ADMIN. & FINANCE		
APPROVED BY:		
DR. GREGORIO J. RODIS UNIVERSITY PRESIDENT		
REPUBLIC ACT 9266. NOTE: THIS DRAWING, AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF : BATAAN PENINSULA STATE UNIVERSITY AND AS SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT THEIR PERMISSION ALL DRAWINGS ARE TO BE RETURNED WHEN NO LONGER IN USE.		
SHEET CONTENT:		SHEET NUMBER:
SECOND FLOOR PLAN		A 2

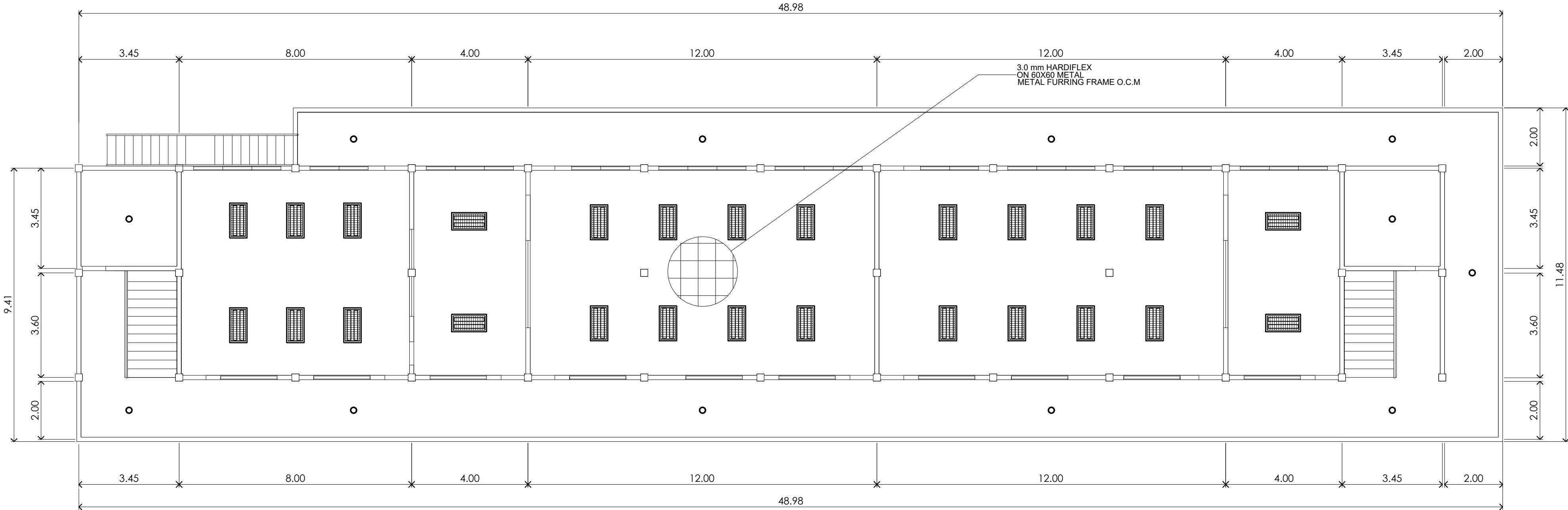
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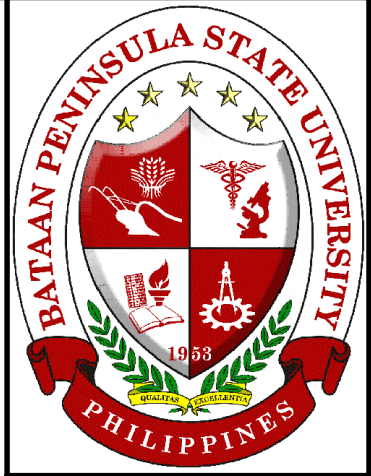


(PROPOSED)
A REFLECTED CEILING PLAN
A-1 A-1
SCALE : 1:100 MTS

PROJECT TITLE:		
REPAIR OF ICT BUILDING WITH EQUIPMENT AND FIXTURES AT DINALUPIHAN CAMPUS		
LOCATION: DINALUPIHAN CAMPUS BATAAN PENINSULA STATE UNIVERSITY		
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PREPARED BY:		
AR. ROXETTE S. UMEREZ ARCHITECT I, BPSU TWG		
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REFLECTED CEILING PLAN		A 3

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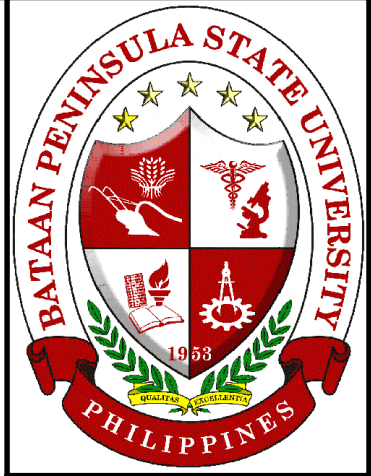
DOORS SCHEDULE:			WINDOW SCHEDULE:		
TYPE: HDR STEEL DOOR WITH SIDE GLASS	TYPE: HDR STEEL DOOR	TYPE: UPVC DOOR	TYPE: UPVC SLIDING WINDOW	TYPE: UPVC SLIDING WINDOW	TYPE: UPVC AWNING WINDOW
LOCATION: LECTURE ROOM, OBSERVER ROOMS AND COMPUTER LABORATORY	LOCATION: LECTURE ROOM, OBSERVER ROOMS COMPUTER LABORATORY AND MALE AND FEMALE CR	LOCATION: MALE AND FEMALE CR	LOCATION: LECTURE ROOM, OBSERVER ROOMS AND COMPUTER LABORATORY	LOCATION: LECTURE ROOM, OBSERVER ROOMS AND COMPUTER LABORATORY	LOCATION: MALE AND FEMALE CR
SETS: 8 SETS	SETS: 8 SETS	SETS: 4 SETS	SETS: 13 SETS	SETS: 7 SETS	SETS: 2 SETS
REMARKS: AS PER MANUFACTURERS	REMARKS: AS PER MANUFACTURERS	REMARKS: AS PER MANUFACTURERS	REMARKS: AS PER MANUFACTURERS	REMARKS: AS PER MANUFACTURERS	REMARKS: AS PER MANUFACTURERS

(PROPOSED)
 SCHEDULE OF DOORS & WINDOWS
SCALE : 1:300 MTS

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REPAIR OF ICT BUILDING WITH EQUIPMENT AND FIXTURES AT DINALUPIHAN CAMPUS		
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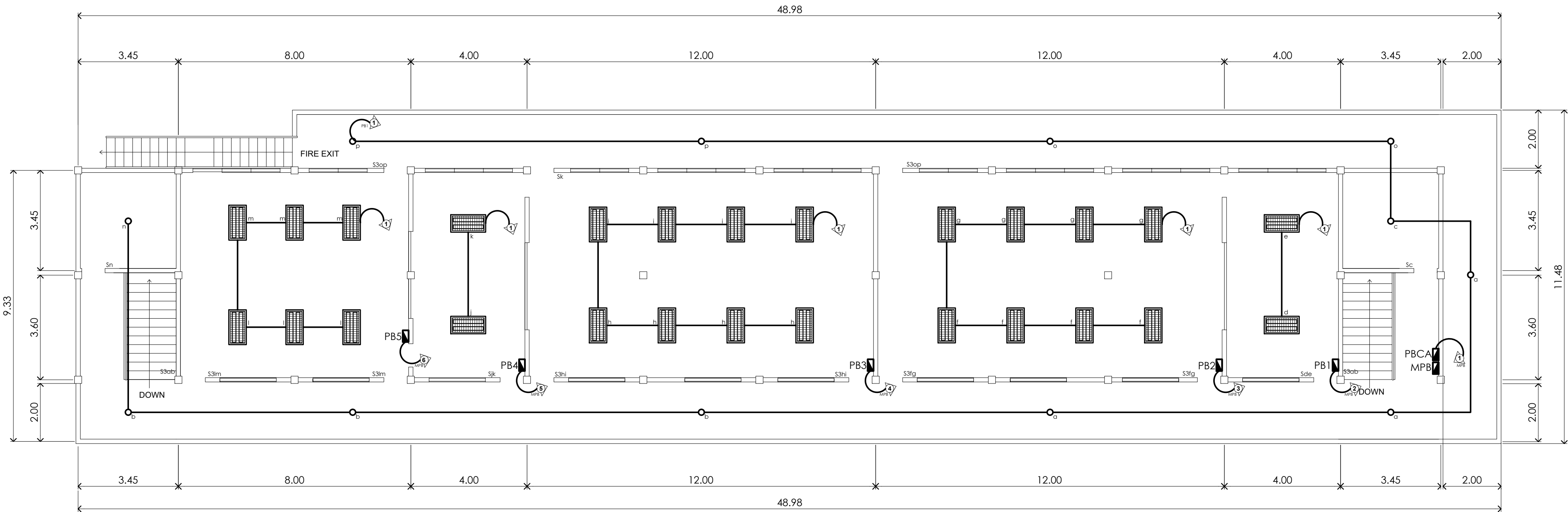
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(PROPOSED)
E
E-1 | E-1
SECOND LIGHTING LAYOUT
SCALE : 1:100 MTS

PROJECT TITLE:		
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SECOND POWER LAYOUT		E 1

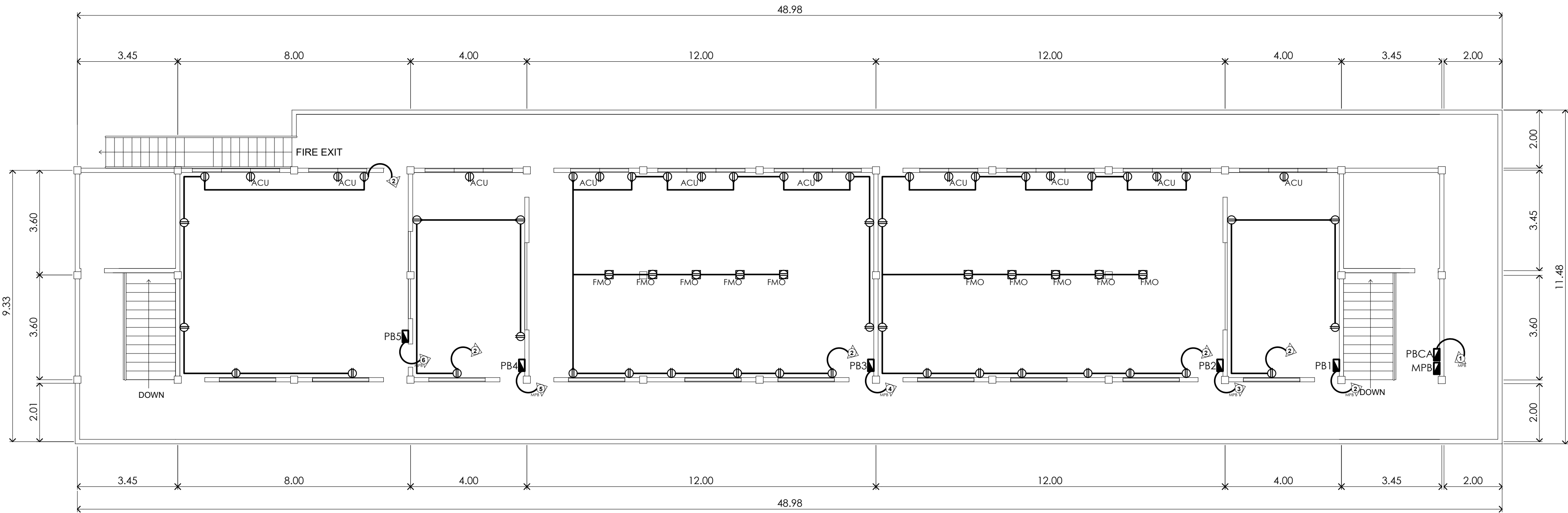
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(PROPOSED)
E SECOND POWER LAYOUT
E-1 E-1
SCALE : 1:100 MTS

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SHEET CONTENT:		SHEET NUMBER:
SECOND LIGHTING LAYOUT		E 2

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GENERAL ELECTRICAL NOTES
AND SPECIFICATION :

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION THE PHILIPPINE ELECTRICAL CODE, TO THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED AND THE REQUIREMENTS OF LOCAL UTILITY COMPANIES.
2. ALL PIPE EMBEDDED IN CONCRETE SHALL BE POLYVINYL CHLORIDE (PVC) AND ALL EXPOSED SHALL BE ELECTRICAL METALLIC CONDUIT (EMT).
3. MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 2.0 mm THHN AND 20MM (1/2") NOMINAL DIA. RESPECTIVELY, UNLESS OTHERWISE SPECIFIED ON PLANS.
4. NO BRANCH CIRCUIT WIRING IN LIGHTING AND POWER SHALL HAVE A LOAD MORE THAN 80% OF ITS RATING.
5. LIGHT CONTROL SWITCHES SHALL BE RATED 16 AMPERES, 230 Vac.
6. UNLESS OTHERWISE SPECIFIED PULLBOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY, ALTHOUGH SUCH BOXES ARE NOT INDICATED ON PLANS.
7. FOR EACH SPARE CIRCUIT IN PANELBOARD, PROVIDE AN EMPTY CONDUIT 20MM (3/4") DIA. TERMINATING TO A COVERED SQUARE BOX.
8. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE FOR BOTH LOCATION AND PURPOSES.
9. ALL METAL FRAMES SHALL BE PROPERLY AND ADEQUATELY GROUNDED. GROUND WIRE SHALL BE PROVIDED ON ALL EQUIPMENT FEEDER.
10. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:

a. LIGHT SWITCHES	_____	1.40m A.F.F. AT CENTER
b. RECEPTACLES	_____	0.30m A.F.F.
c. COUNTER TOP OUTLET	_____	1.10m A.F.F.
d. RANGEHOOD OUTLET	_____	1.30m A.F.F.
e. PANELBOARDS	_____	AS REQUIRED UNDERFIELD CONDITION
f. GROUND FAULT INTERRUPTER	_____	1.10m A.F.F.
g. RANGE OUTLET	_____	0.50m A.F.F.
h. REFRIGERATOR OUTLET	_____	0.50m A.F.F.
i. ACU's (WINDOW TYPE)	_____	AS REQUIRED UNDERFIELD CONDITION
11. OUTLET BOXES SHALL BE AS FOLLOWS:

LIGHT OUT	1-1/2" DEEP, 4" OCTAGONAL BOX 1 OR 2 WAY ENTRIES
RECEPTACLES AND TELEVISION ANT. AND TELEPHONE OUT	2-1/8" DEEP, 4" OCTAGONAL BOX 3 OR 4 WAY ENTRIES
	2-1/8" DEEP, 2"x4" UTILITY BOX 1 OR 2 RACEWAY ENTRIES
	1-1/2" DEEP, 4" SQUARE BOX WITH 1-GANG RAISED PLASTIC COVER FOR 3 OR 4 RACEWAY ENTRIES
12. ALL FLUORESCENT LAMPS SHALL BE PROVIDED WITH POLYESTER FILLED PRE-HEAT THERMALLY PROTECTED HIGH POWER BALLAST.
13. DUPLEX RECEPTACLES SHALL BE RATED 10 AMP, 250 VOLTS, ROUNDED SLOT FOR 220 VOLTS AND SPECIAL OUTLETS SHALL BE RATED 15AMP, 250 VOLTS AS REQUIRED.
14. THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY FEES REQUIRED FOR THE WORKS, AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER'S FINAL CERTIFICATE OF INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETE WORKS.
15. EXPOSED CONDUIT RUN SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE FLOOR AND SUPPORTED BY CLAMPS EVERY 152.4 CM. DIAGONAL RUN SHALL NOT BE ACCEPTED. (THIS IS ALSO APPLICABLE TO CONDUITS RUNNING OVERHEAD INSIDE CEILING).
16. ALL 30-AMPERES CIRCUIT HOMERUN TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5mm THHN (#10 AWG), UNLESS OTHERWISE SPECIFIED ON PLANS.
17. ADDITIONAL MATERIALS SPECIFICATIONS:

a. WIRES AND CABLES	_____	PHILFLEX OR APPROVED EQUAL
b. CIRCUIT BREAKER (BOLT-ON TYPE)	_____	MITSUBISHI/SQUARE D/ABB/SIEMENS
c. WIRING DEVICES	_____	CLIPSAL C-CONCEPT / NATIONAL WIDE SERIES
d. POLYVINYL CHLORIDE CONDUIT (PVC)	_____	CROWN SUPREME SCH. 40
e. JUNCTION / UTILITY BOX GA.16	_____	FUMACO
18. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKER, EACH PANEL WILL BE PROVIDED WITH A TYPEWRITTEN CIRCUIT DIRECTORY.
19. THE JOB SHALL BE EXECUTED IN THE MOST THROUGH PROMPT AND WORKMAN LIKE MANNER, EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICES. THE JOB SHALL BE DONE COMPLETE IN ALL ASPECTS AS REQUIRED IN PLANS AND SPECIFICATION AND READY FOR OPERATION.
20. THE DRAWING AND SPECIFICATIONS ARE INTENDED TO PRESENT A GENERAL LAYOUT AND BROAD OUTLINE AND DISTANCES OF EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE ADJUSTMENT AT THE JOBSITE AS LOCATIONS, LEVELS AND DISTANCES ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
21. WIRES SHALL BE COLOR CODED:

LINE 1 ----- BLACK	LINE 2 ----- RED	GROUND ----- GREEN
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22. THERE SHALL BE ONLY ONE SERVICE DROP TO THE PROPOSED BUILDING. SECONDARY SERVICE ENTRANCE SHALL BE 230 VOLTS, SINGLE-PHASE, 2WIRE-GROUND, 60Hz.
23. NO REVISION IN THE DESIGN SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER. ANY SUCH REVISION DONE WITHOUT THE APPROVAL SHALL CAUSE RESPONSIBILITY OF THE DESIGNER TO CEASED AS A WHOLE.
24. ALL WEATHER-EXPOSED INSTALLATIONS SHALL USE WEATHERPROOF TYPE MATERIALS, ESPECIALLY WEATHERPROOF CONVENIENCE OUTLET, CAST-BOXES, JUNCTION BOXES SUBMIT SAMPLE FOR APPROVAL.
25. ALL EQUIPMENT WIRE, ROYAL CORDS, SPECIAL TYPE PLUGS AND RECEPTACLE AS REQUIRED SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
26. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER AND / OR MASTER ELECTRICIAN.

SCHEDULE AND LOAD COMPUTATION						
PB-1 & PB-4						
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT
1	LIGHTING OUTLET	2	230	200	0.87	15 AT
2	CONVENIENCE OULET	4	230	1440	6.26	20 AT
3	ACU	1	230	2760	12.00	30 AT
4	SPARE	1	230	0.00	0.00	20 AT
TOTAL				4,400	19.13	40 AT

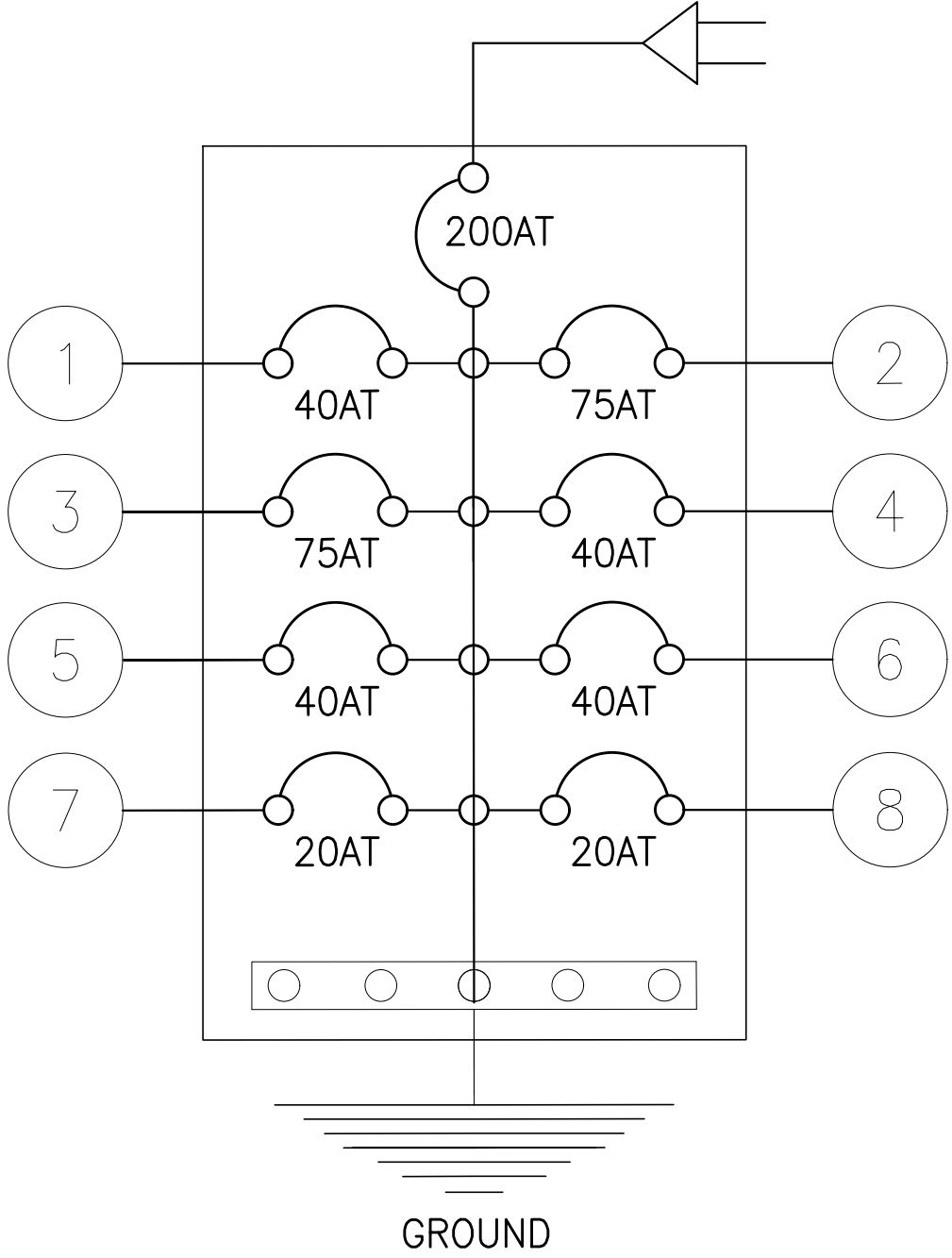
SCHEDULE AND LOAD COMPUTATION						
PB-2 & PB-3						
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT
1	LIGHTING OUTLET	8	230	800	3.48	15 AT
2	CONVENIENCE OULET	19	230	6840	29.74	20 AT
3	ACU	3	230	8280	36.00	30 AT
4	SPARE	1	230	0.00	0.00	20 AT
TOTAL				15,920	69.22	75 AT

SCHEDULE AND LOAD COMPUTATION						
PB5						
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT
1	LIGHTING OUTLET	6	230	600	2.61	15 AT
2	CONVENIENCE OULET	6	230	2160	9.39	20 AT
3	ACU	2	230	5520	24.00	30 AT
4	SPARE	1	230	0.00	0.00	20 AT
TOTAL				8,280	36.00	40 AT

SCHEDULE AND LOAD COMPUTATION						
PB COMMON AREAS						
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT
1	LIGHTING OUTLET	12	230	1200	5.22	15 AT
2	CONVENIENCE OULET	2	230	720	3.13	20 AT
7	SPARE	1	230	1500	6.52	20 AT
TOTAL				3420	14.87	40 AT

SCHEDULE AND LOAD COMPUTATION						
MPB						
NO.	DESCRIPTION	NO. OUTLET	VOLTS	VA	AMP PER CKT	PROTECTION PER CKT
1	PB1	1	230	4,400	19.13	40 AT
2	PB2	1	230	15,920	69.22	75 AT
3	PB3	1	230	15,920	69.22	75 AT
4	PB4	1	230	4,400	19.13	40 AT
5	PB5	1	230	8,280	36.00	40 AT
6	PBCA	1	230	3,420	14.87	40 AT
7	SPARE	1	230	1500	6.52	20 AT
8	SPARE	1	230	1500	6.52	20 AT
TOTAL				55,340	240.61	250 AT

(PROPOSED)
E
E-1 E-1
SCALE : 1:100 MTS



(PROPOSED)
E
E-1 E-1
SCALE : 1:100 MTS

LEGEND

- S, Sa TUMBLER SWITCH, SINGLE POLE
Sab TUMBLER SWITCH, 2-GANG
Sabc TUMBLER SWITCH, 3-GANG
S3ab... TUMBLER SWITCH, 3-WAY
⊕ DUPLEX CONVENIENCE OUTLET
⊕ WPO WEATHERPROOF C.O.

- ⊕ ACU AIRCONDITIONING UNIT OUTLET
○ PINLIGHT WITH LED BULB
① CIRCUIT HOMERUN
▬ PANEL BOARD
⊕ WALL LIGHT

- ⊕ KILOWATT-HOUR METER
⊕ SERVICE ENTRANCE, 2-WIRE
⊕ TELEPHONE ENTRANCE
⊕ SERVICE ENTRANCE TO PANEL



BATAAN PENINSULA STATE UNIVERSITY
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE

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TELEPHONE NO. 1 (647) 357-15-15

PROJECT TITLE:		
REPAIR OF ICT BUILDING WITH EQUIPMENT AND FIXTURES AT DINALUPIHAN CAMPUS		
LOCATION:		
DINALUPIHAN CAMPUS BATAAN PENINSULA STATE UNIVERSITY		
STRUCTURAL ENGINEER		
REG. NO.		
P.E. NO.		
PLACE:		
THNO:		
MASTER PLUMBER/SANITARY ENGINEER		
REG. NO.		
P.E. NO.		
PLACE:		
THNO:		
PROFESSIONAL ELECTRICAL ENGINEER		
REG. NO.		
P.E. NO.		
PLACE:		
THNO:		
PROFESSIONAL MECHANICAL ENGINEER		
REG. NO.		
P.E. NO.		
PLACE:		
THNO:		
REVISION		
NO.	DESCRIPTION	DATE
2		
PREPARED BY:		
AR. ROXETTE S. UMEREZ		
ARCHITECT I, BPSU TWG		
REG. NO.		
P.E. NO.		
PLACE:		
THNO:		
CHECKED BY:		
AR. JO-ANA Z. TANEGA		
ARCHITECT II, PPS OFFICE		
REG. NO.		
P.E. NO.		
PLACE:		
THNO:		
REVIEWED BY:		
AR. DANILO Y. GALURA		
ARCHITECT II, TWG CONSULTANT		
RECOMMENDED BY:		
DR. EDMUNDO C. TUNGOL		
VICE PRESIDENT ADMIN. & FINANCE		
APPROVED BY:		
DR. GREGORIO J. RODIS		
UNIVERSITY PRESIDENT		
REPUBLIC ACT 9266. NOTE: THIS DRAWING, AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF : BATAAN PENINSULA STATE UNIVERSITY AND AS SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT THEIR PERMISSION ALL DRAWINGS ARE TO BE RETURNED WHEN NO LONGER IN USE.		
SHEET CONTENT:		SHEET NUMBER:
GENERAL ELECTRICAL NOTES AND SPECIFICATION SCHEDULE AND LOAD COMPUTATION RISER DIAGRAM LEGEND		E 3

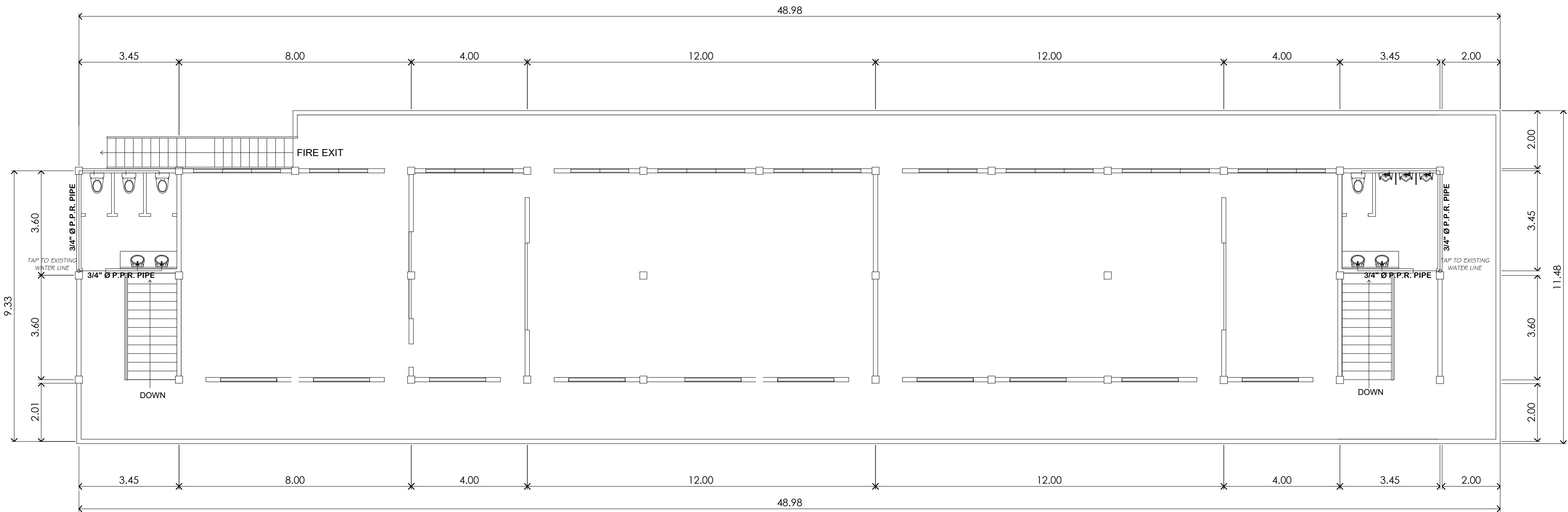
NOTE: ALL DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE DESIGNER MUST BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

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(PROPOSED)
P SECOND WATER LINE LAYOUT
P-1 P-1 SCALE : 1:100 MTS

PROJECT TITLE:		
REPAIR OF ICT BUILDING WITH EQUIPMENT AND FIXTURES AT DINALUPIHAN CAMPUS		
LOCATION: DINALUPIHAN CAMPUS BATAAN PENINSULA STATE UNIVERSITY		
STRUCTURAL ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
MASTER PLUMBER/SANITARY ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
PROFESSIONAL ELECTRICAL ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
PROFESSIONAL MECHANICAL ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
REVISION		
NO.	DESCRIPTION	DATE
2		
PREPARED BY:		
AR. ROXETTE S. UMEREZ ARCHITECT I, BPSU TWG		
REG. NO.:		
P.R. NO.:		
PLACE:		
CHECKED BY:		
AR. JO-ANA Z. TANEGA ARCHITECT I, PPES OFFICE		
REG. NO.:		
P.R. NO.:		
PLACE:		
REVIEWED BY:		
AR. DANILO Y. GALURA ARCHITECT II, TWG CONSULTANT		
RECOMMENDED BY:		
DR. EDMUNDO C. TUNGOL VICE PRESIDENT ADMIN. & FINANCE		
APPROVED BY:		
DR. GREGORIO J. RODIS UNIVERSITY PRESIDENT		
REPUBLIC ACT 9266. NOTE: THIS DRAWING, AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF : BATAAN PENINSULA STATE UNIVERSITY AND AS SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT THEIR PERMISSION ALL DRAWINGS ARE TO BE RETURNED WHEN NO LONGER IN USE.		
SHEET CONTENT:		SHEET NUMBER:
SECOND WATER LINE LAYOUT		P 1

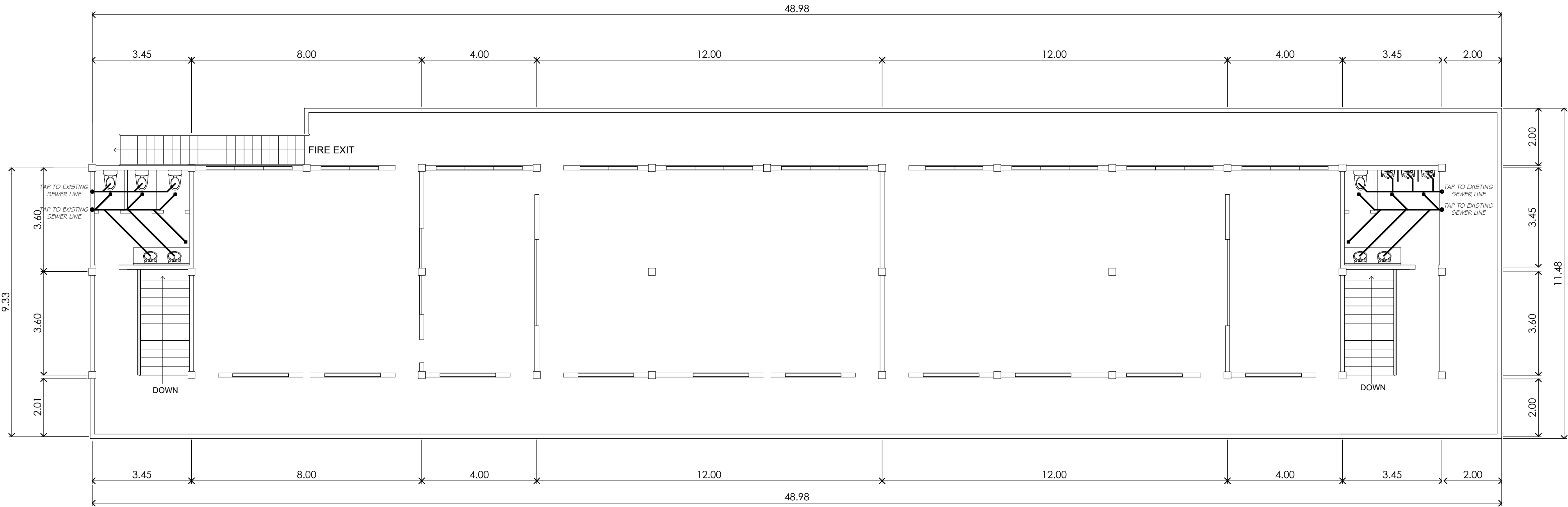
NOTE: ALL DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE DESIGNER MUST BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

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TELEPHONE NO. 1 (0477) 357-15-68



(PROPOSED)
SECOND SEWER LINE LAYOUT
SCALE : 1:100 MTS

PROJECT TITLE:		
REPAIR OF ICT BUILDING WITH EQUIPMENT AND FIXTURES AT DINALUPIHAN CAMPUS		
LOCATION: DINALUPIHAN CAMPUS BATAAN PENINSULA STATE UNIVERSITY		
STRUCTURAL ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
MASTER PLUMBER/SANITARY ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
PROFESSIONAL ELECTRICAL ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
PROFESSIONAL MECHANICAL ENGINEER		
REG. NO.:		
P.R. NO.:		
PLACE:		
T.N.O.:		
REVISION		
NO.	DESCRIPTION	DATE
2		
PREPARED BY:		
AR. ROXETTE S. UMEREZ ARCHITECT I, BPSU TWG		
REG. NO.:		
P.R. NO.:		
PLACE:		
CHECKED BY:		
AR. JO-ANA Z. TANEGA ARCHITECT I, PPS OFFICE		
REG. NO.:		
P.R. NO.:		
PLACE:		
REVIEWED BY:		
AR. DANILO Y. GALURA ARCHITECT II, TWG CONSULTANT		
RECOMMENDED BY:		
DR. EDMUNDO C. TUNGOL VICE PRESIDENT ADMIN. & FINANCE		
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SHEET CONTENT:		SHEET NUMBER:
SECOND SEWER LINE LAYOUT		P 2