



ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

Community Outreach Center, RSU-Main Campus, Liwanag, Odiongan, Romblon 5505
Telephone: (042) 567-5952
Email: bac@rsu.edu.ph
Website: rsu.edu.ph



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BID BULLETIN

Clarification No. 3

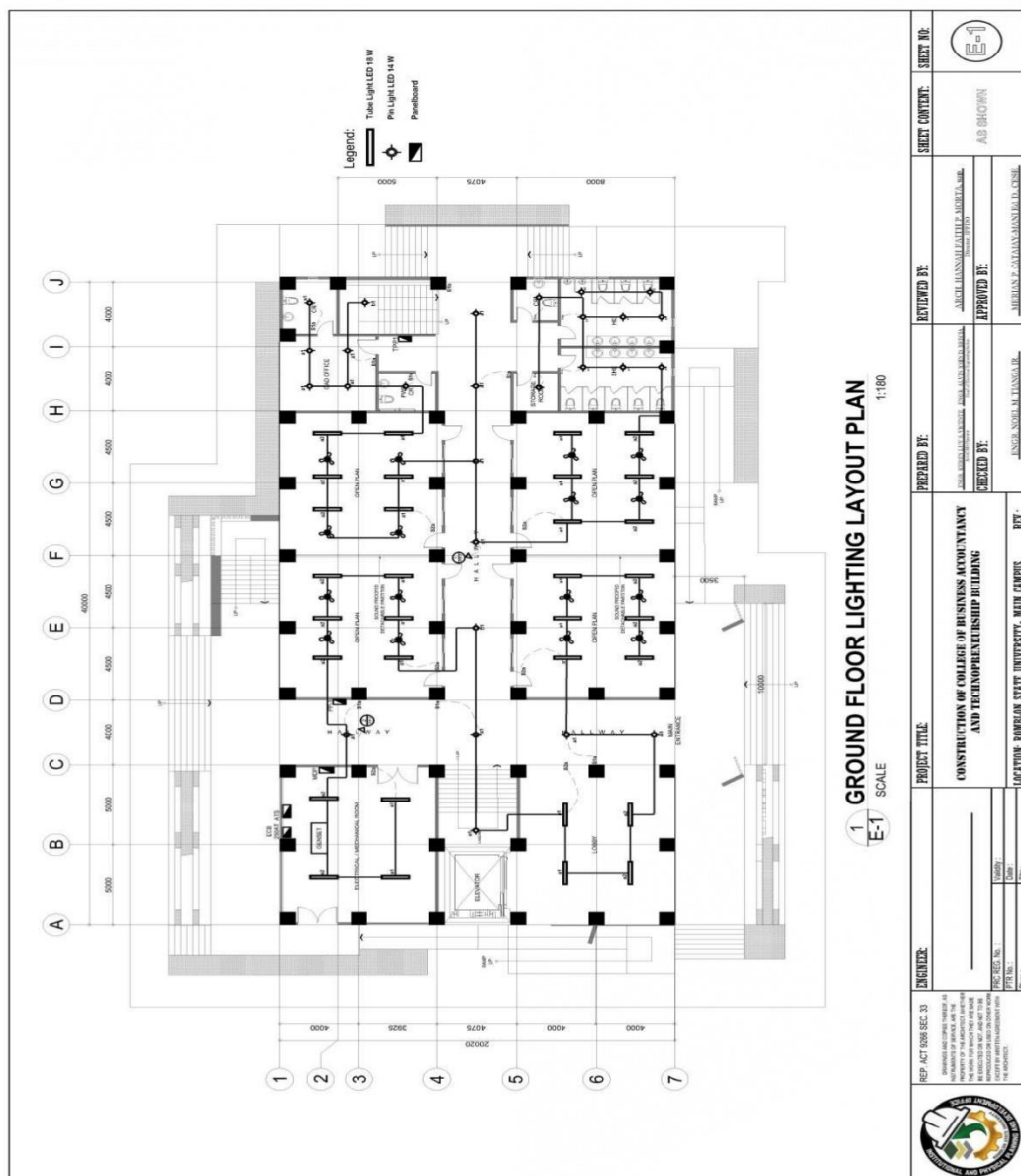
Solicitation No.: RSU-2025-01-004-EPA

- TO** : All Prospective Bidders
- SUBJECT** : Change/Modification of the Electrical Plan in all attached/associated documents in the Philippine Bidding Documents (PBDs)
- DATE** : 02 December 2024

This Bid Bulletin is issued to inform all prospective bidders of the change/modification of the Electrical Plan in all attached/associated documents in the PBDs. Please take notice of these changes.

EARLY PROCUREMENT OF CONSTRUCTION OF COLLEGE OF BUSINESS, ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING, MAIN CAMPUS – PHASE 2 (ABC: PhP10,000,000.00)

FROM





ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

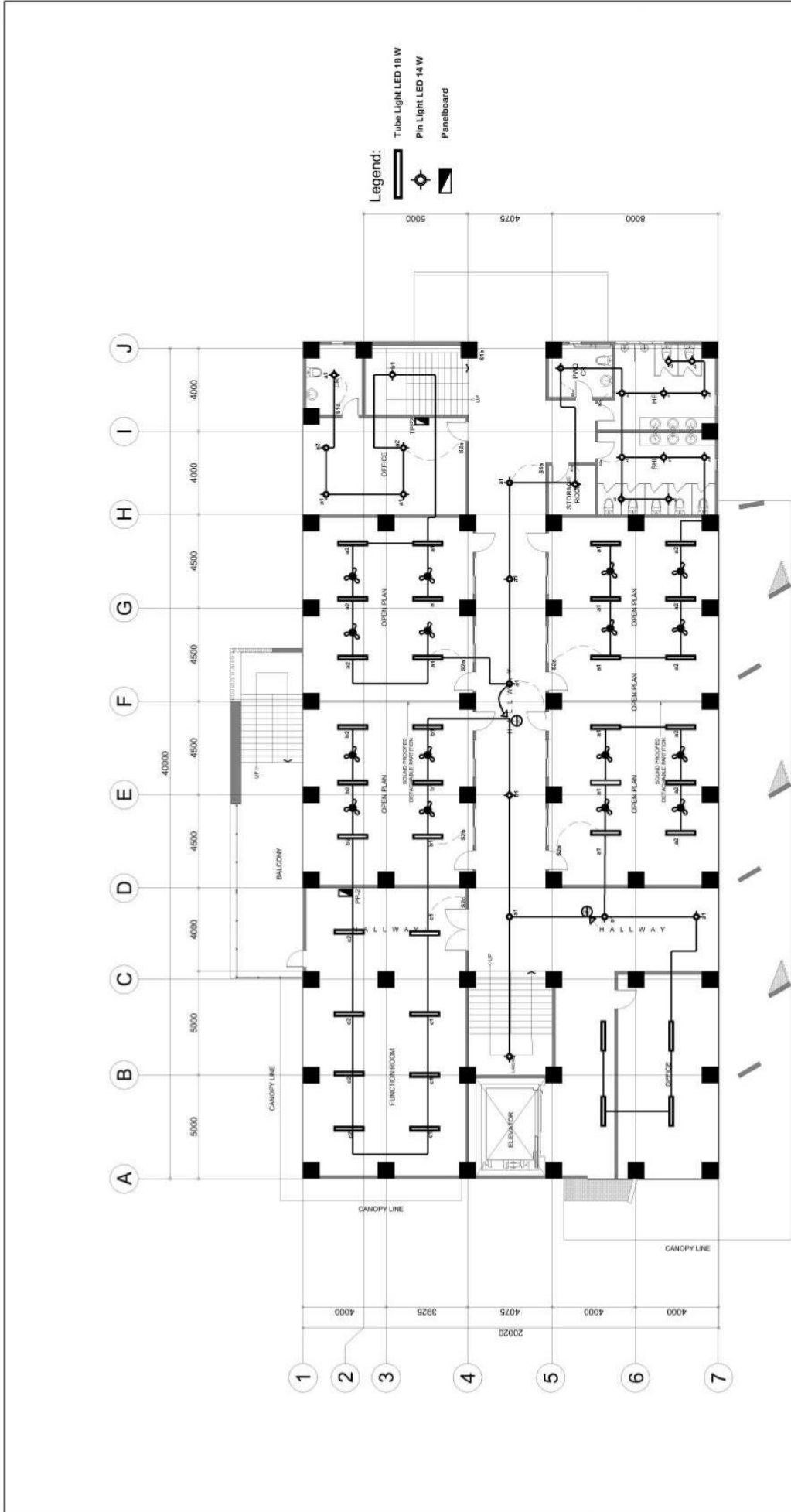
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1 SECOND FLOOR LIGHTING LAYOUT PLAN
E-2 SCALE 1:180

ENGINEER: <small>REPUBLIC ACT 9296 SEC. 33 DRAWINGS AND COPIES THEREOF AS AUTHORIZED BY ARCHITECT ARE THE PROPERTY OF ARCHITECT AND ARE NOT TO BE REPRODUCED OR NOT, AND NOT TO BE REPRODUCED OR USED IN CONNECTION WITH THE PROJECT.</small>	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	PREPARED BY: <small>JENGER NOEL M. DIANGA JR. Title: Team Participant</small>	REVIEWED BY: <small>ARCIL HANNAH FATILP. AGORTA, MBA. Director, ITP/CO</small>	SHEET NO.:
	LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS	CHECKED BY: <small>JENGER NOEL M. DIANGA JR. Title: Team Participant</small>	APPROVED BY: <small>MERIAN P. CATARA-MANLEL D. CUISE President, Romblon State University</small>	SHEET CONTENT: AS SHOWN



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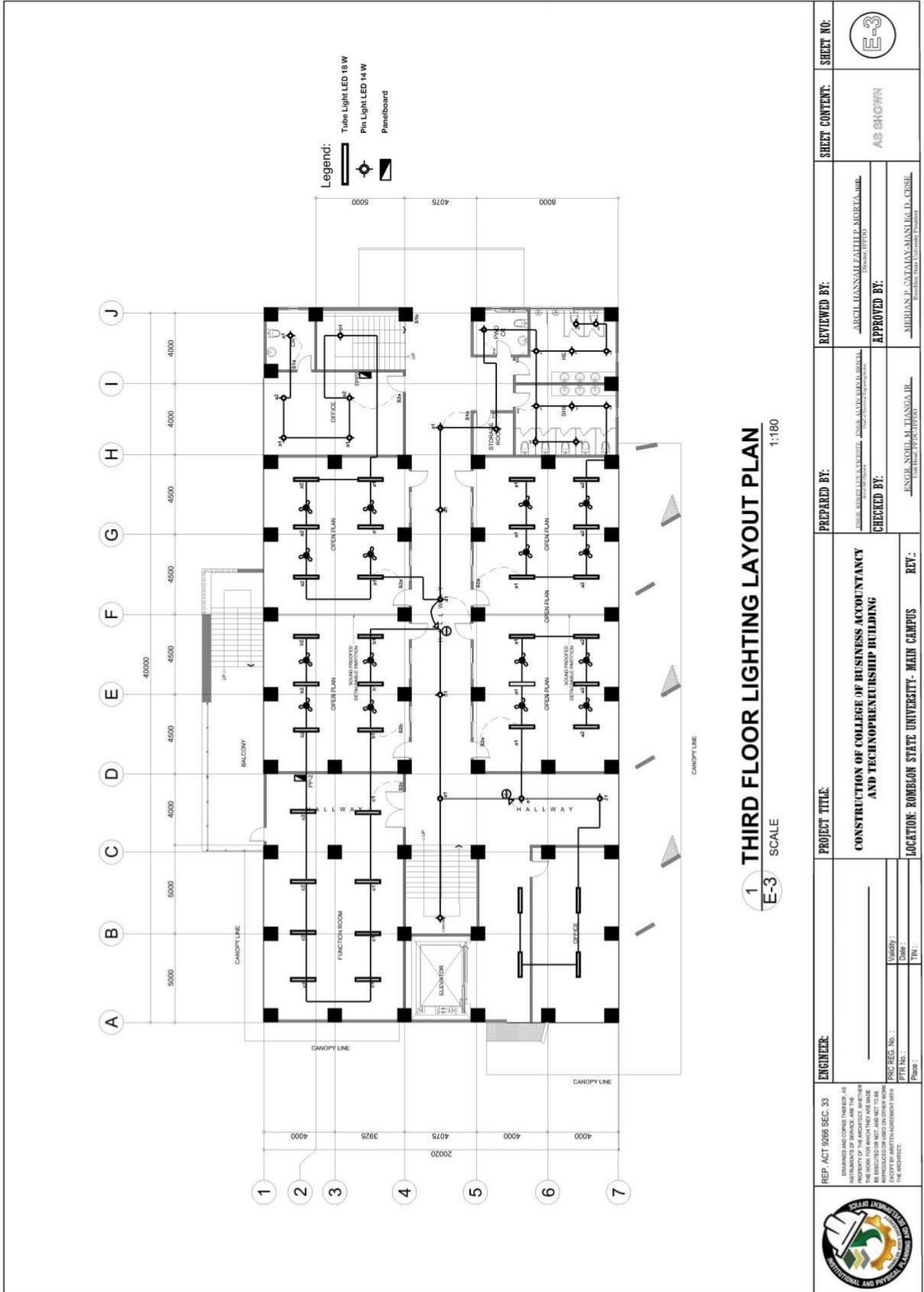
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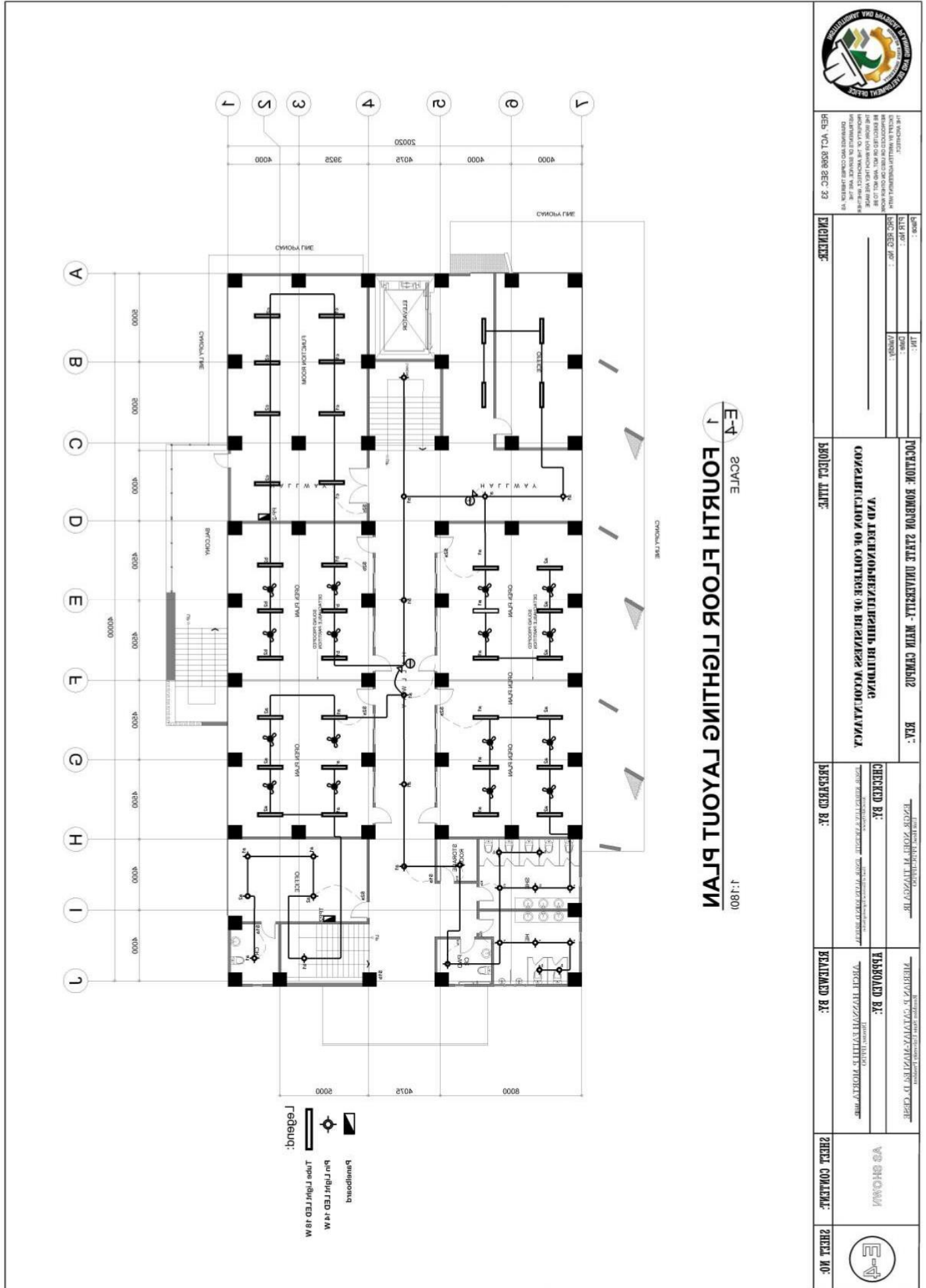
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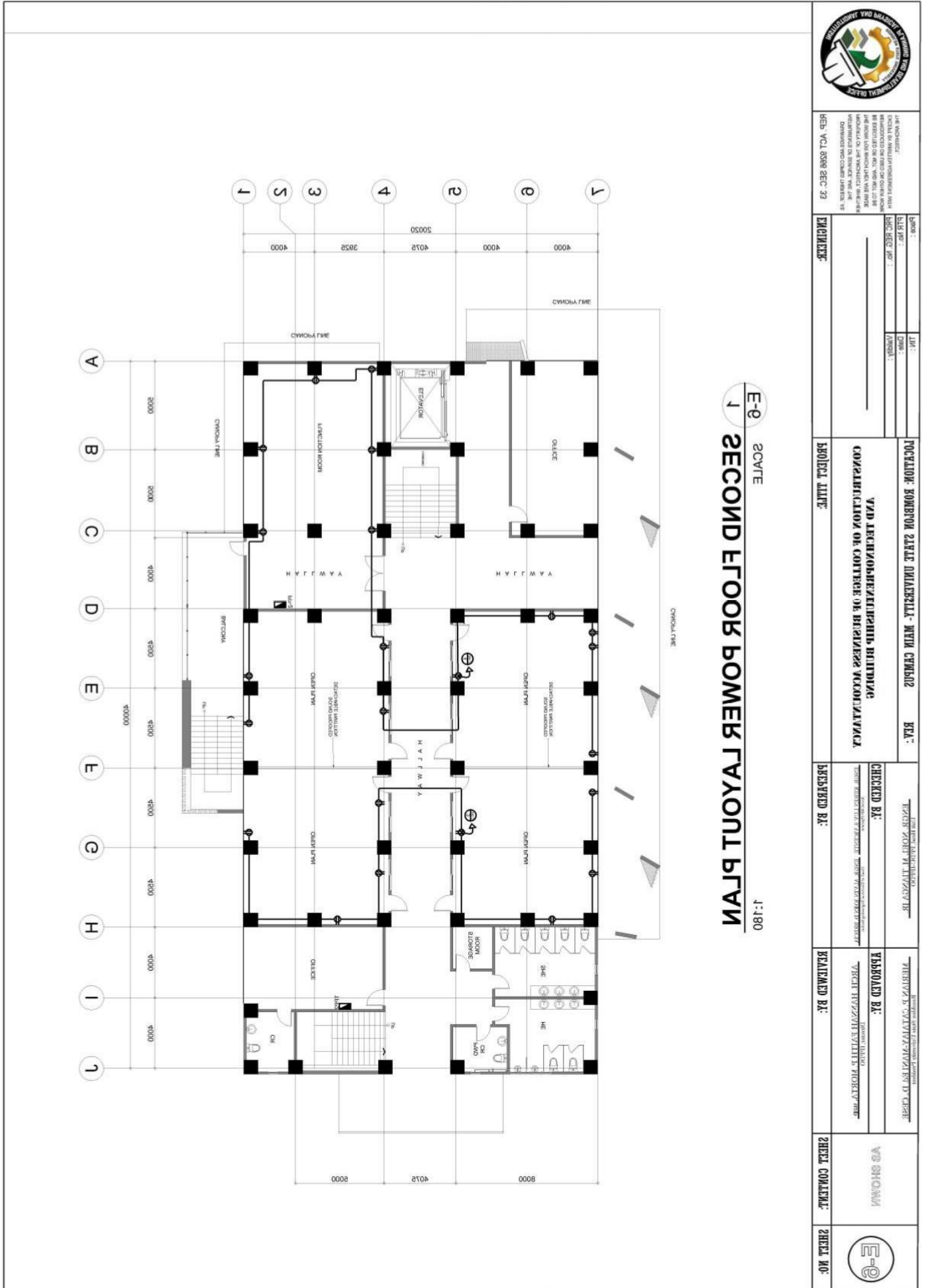
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E-9 SCALE
 1 SECOND FLOOR POWER LAYOUT PLAN
 1:180



LET REGISTERED PROFESSIONAL ENGINEER
 REGISTERED ELECTRICAL ENGINEER
 REGISTERED POWER ENGINEER
 REGISTERED TELECOMMUNICATIONS ENGINEER
 REGISTERED MECHANICAL ENGINEER
 REGISTERED CIVIL ENGINEER
 REGISTERED CHEMICAL ENGINEER
 REGISTERED INDUSTRIAL ENGINEER
 REGISTERED METALLURGICAL ENGINEER
 REGISTERED AERONAUTICAL ENGINEER
 REGISTERED AGRICULTURAL ENGINEER
 REGISTERED MARINE ENGINEER
 REGISTERED MINING ENGINEER
 REGISTERED PETROLEUM ENGINEER
 REGISTERED SURVEYING ENGINEER
 REGISTERED TRANSPORTATION ENGINEER
 REGISTERED WATER RESOURCES ENGINEER
 REGISTERED WASTE MANAGEMENT ENGINEER
 REGISTERED ENVIRONMENTAL ENGINEER
 REGISTERED FOOD SCIENCE ENGINEER
 REGISTERED FISH AND AQUACULTURE ENGINEER
 REGISTERED FIRE ENGINEER
 REGISTERED POLICE ENGINEER
 REGISTERED SOCIAL WORK ENGINEER
 REGISTERED TRAFFIC ENGINEER
 REGISTERED URBAN ENGINEER
 REGISTERED VETERINARY ENGINEER
 REGISTERED WOODWORKING ENGINEER
 REGISTERED ZONING ENGINEER
 REGISTERED ARCHITECTURE ENGINEER
 REGISTERED PLANNING ENGINEER
 REGISTERED CONSTRUCTION ENGINEER
 REGISTERED CONSTRUCTION MANAGEMENT ENGINEER
 REGISTERED CONSTRUCTION ECONOMICS ENGINEER
 REGISTERED CONSTRUCTION LAW ENGINEER
 REGISTERED CONSTRUCTION TECHNOLOGY ENGINEER
 REGISTERED CONSTRUCTION MANAGEMENT ENGINEER
 REGISTERED CONSTRUCTION ECONOMICS ENGINEER
 REGISTERED CONSTRUCTION LAW ENGINEER
 REGISTERED CONSTRUCTION TECHNOLOGY ENGINEER

PROJ. NO.:
 DATE:
 DRAWN BY:
 CHECKED BY:
 PROJECT TITLE:

POSITION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS
 VAD LISCANOBREZELERNYI BLDING
 CONSULTATION ON CONCRETE ON BUSINESS ACCOMMODATION
 PROJECT TITLE:

CHECKED BY:
 PREPARED BY:

APPROVED BY:
 REVISIONS:

SHEET NO. E-9



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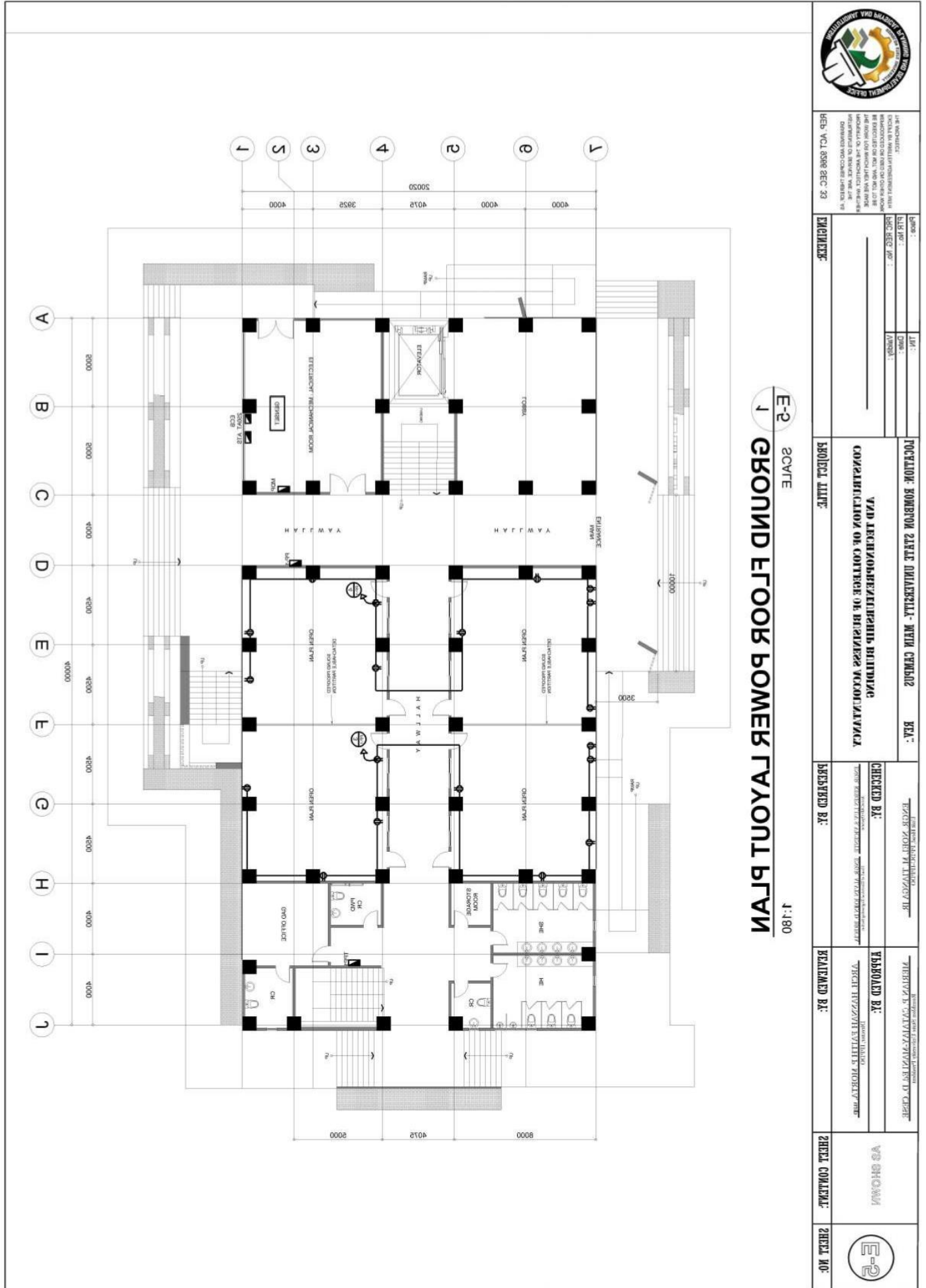
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E-2
SCALE
1
GROUND FLOOR POWER LAYOUT PLAN
 1:180



REP: VOL 8598 SEC 33

DATE:	DATE:
REVISED BY:	DATE:
APPROVED BY:	DATE:

PROJECT TITLE:

LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS
CONSTRUCTION OF CENTER OF BUSINESS ADMINISTRATION

CHECKED BY:

DESIGNED BY:

APPROVED BY:

DATE:

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ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

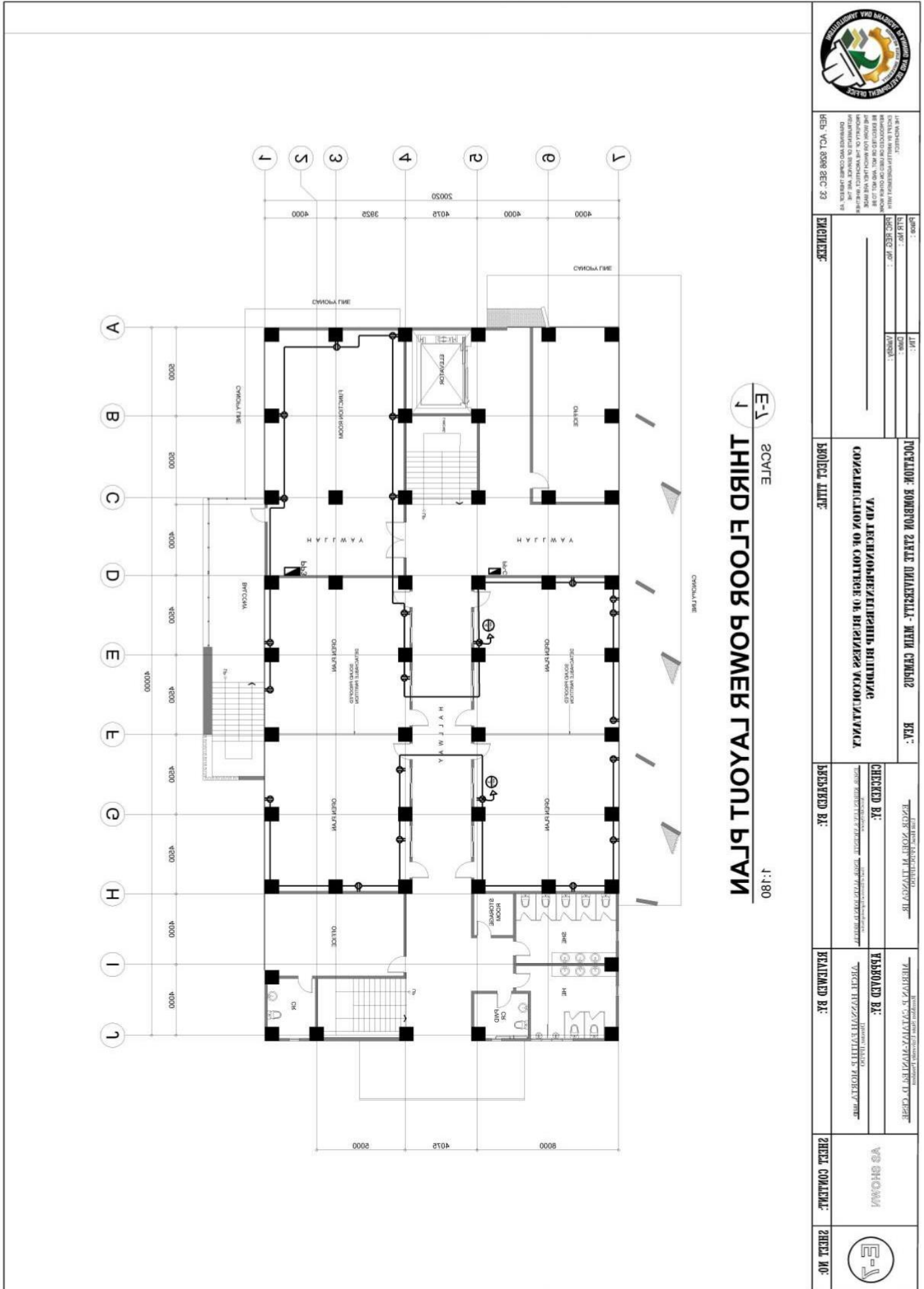
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E-1
1
SCALE
THIRD FLOOR POWER LAYOUT PLAN
1:180



REVISIONS:
 1. SPECIFIED MATERIALS/ITEMS SHALL BE SUBSTITUTED OR REPLACED BY OTHERS AS APPROVED BY THE BAC. THE BAC SHALL BE NOTIFIED OF ANY SUCH SUBSTITUTIONS OR REPLACEMENTS IN WRITING AND APPROVED BY THE BAC. THE BAC SHALL BE NOTIFIED OF ANY SUCH SUBSTITUTIONS OR REPLACEMENTS IN WRITING AND APPROVED BY THE BAC.

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 PROJECT NO.: _____
 PROJECT NAME: _____

POSITION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS
 UNIT: _____
 ROOM: _____
 SHEET NO.: _____

PROJECT NAME: **UNIT TECHNOLEADERSHIP BUILDING**
CONSOLIDATION OF COLLEGE OF BUSINESS ACCOMMODATION
 PROJECT DATE: _____

CHECKED BY: _____
 ENGINEER: _____
 PROJECT NO.: _____

DESIGNED BY: _____
 DRAWN BY: _____
 PROJECT NAME: _____

SHEET CONTENT: **AS SHOWN**
 SHEET NO.: **E-1**



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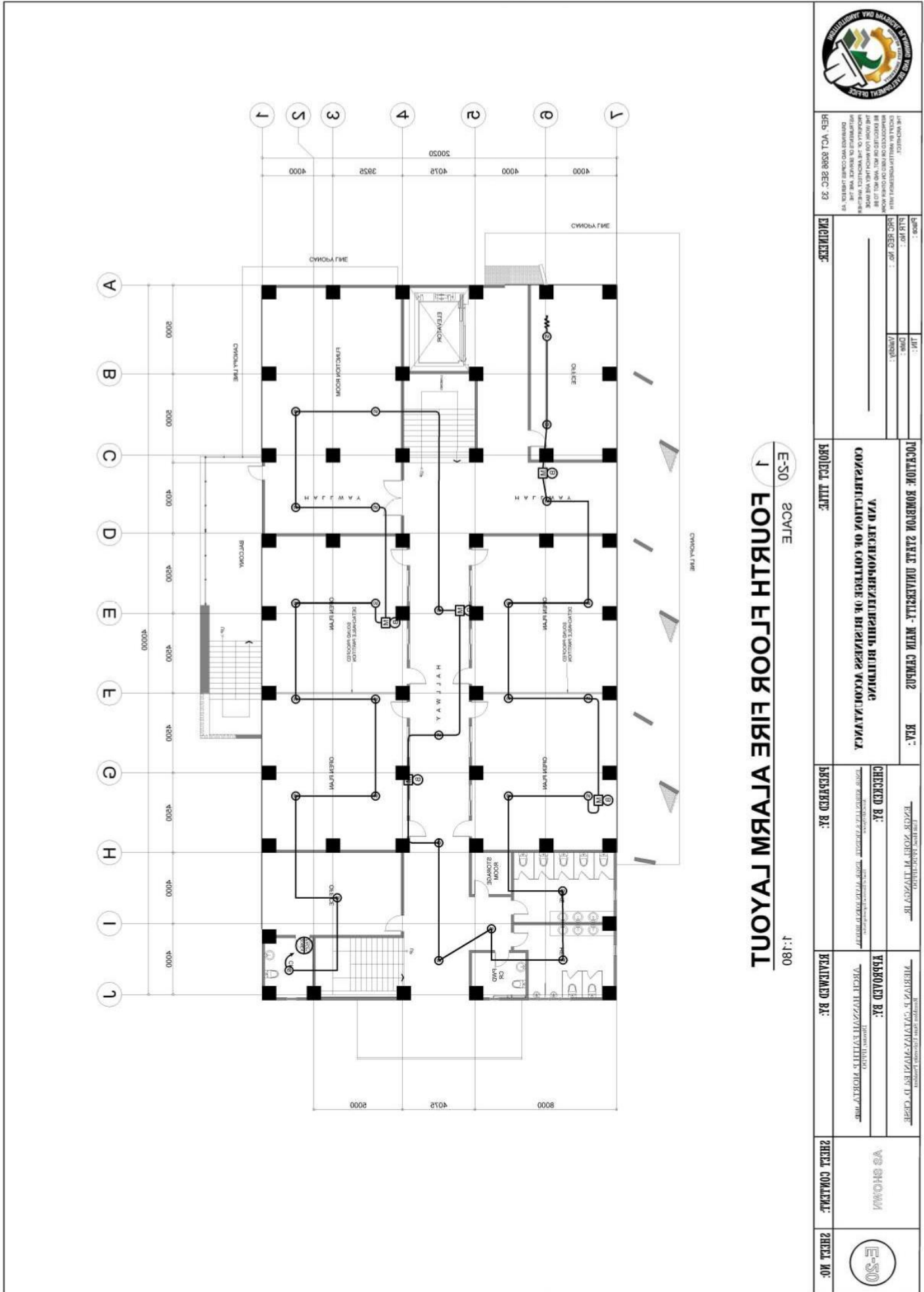
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1 E-50 SCALE
FOURTH FLOOR FIRE ALARM LAYOUT
1:180

		PROJECT NAME: 1 E-50 SCALE FOURTH FLOOR FIRE ALARM LAYOUT		SHEET NO.: 	
REVISIONS: REV: VCL 8398 DEC. 23		PROJECT DATE:		SHEET CONTENT:	
DATE: _____		PROJECT NAME: POSITION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS VCL 8398 DEC. 23		DESIGNED BY:	
DATE: _____		PROJECT NAME: POSITION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS VCL 8398 DEC. 23		DRAWN BY:	
DATE: _____		PROJECT NAME: POSITION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS VCL 8398 DEC. 23		CHECKED BY:	
DATE: _____		PROJECT NAME: POSITION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS VCL 8398 DEC. 23		APPROVED BY:	



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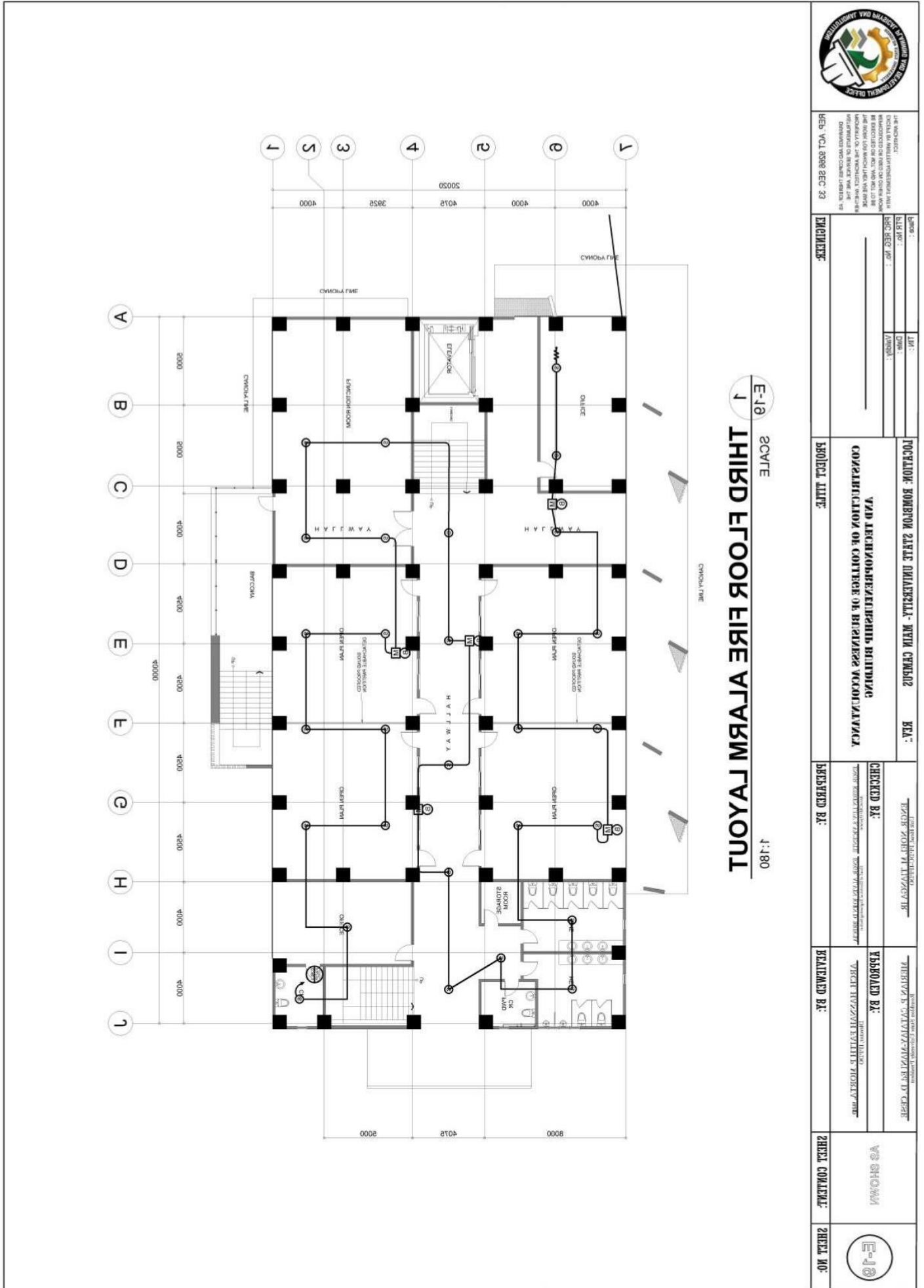
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REV: VOL 0598 SEC 23
 DATE: 05/20/2015
 PROJECT: COMMUNITY OUTREACH CENTER, ROMBLON STATE UNIVERSITY

DESIGNED BY: _____
 CHECKED BY: _____
 APPROVED BY: _____

POSITION: ARCHITECT
 PROJECT TITLE: COMMUNITY OUTREACH CENTER, ROMBLON STATE UNIVERSITY

DESIGNED BY: _____
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SHEET NO.: E-10

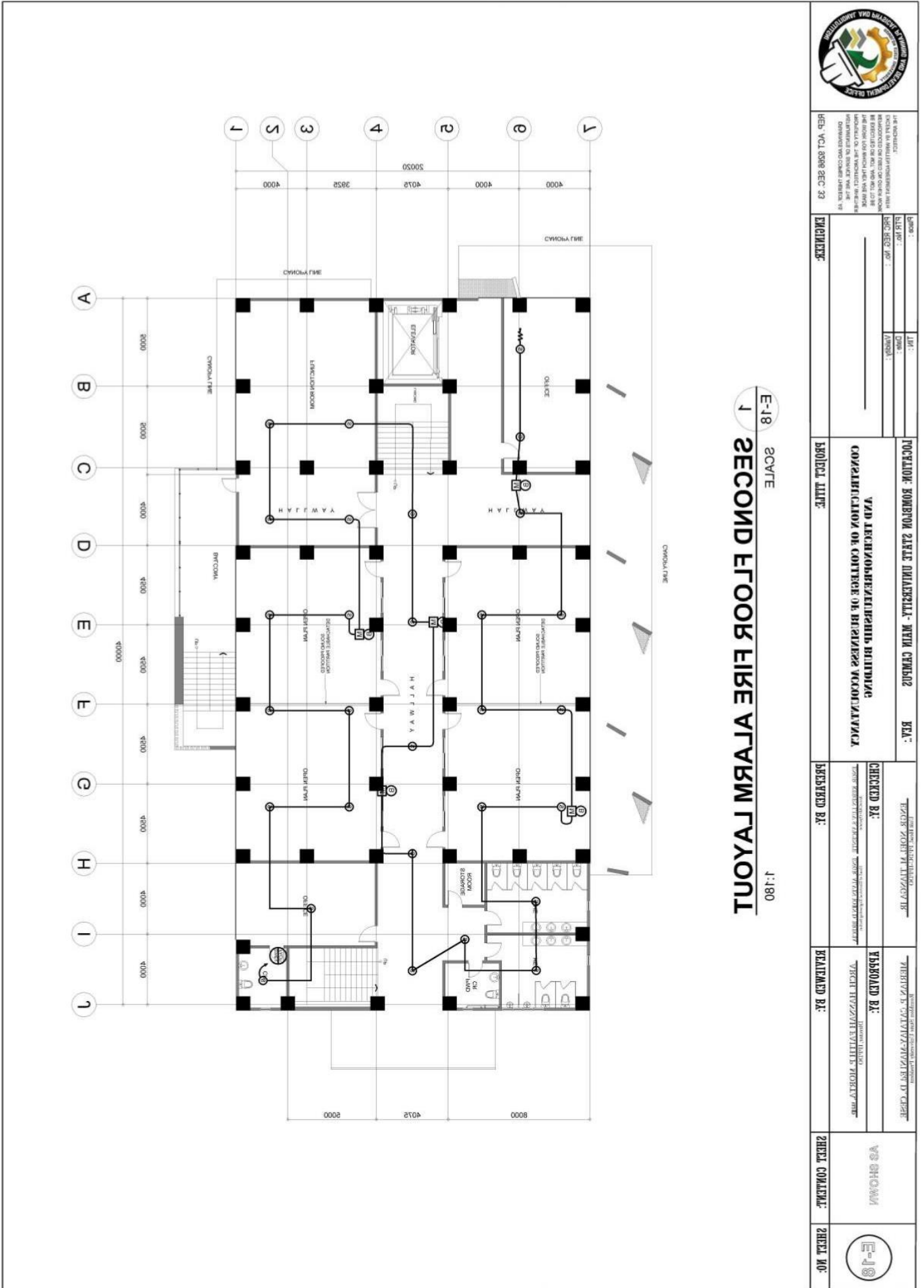


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THE ENGINEER:
 SPECIAL IN ELECTRICAL ENGINEERING WITH
 HIS REGISTRATION NO. 101-101-101-101
 HIS LICENSE NO. 101-101-101-101
 HIS ADDRESS: 101-101-101-101
 HIS CONTACT NO. 101-101-101-101
 HIS DESIGNATION: 101-101-101-101

PROJECT: ROMBLON STATE UNIVERSITY - MAIN CAMPUS
 CONSULTANT: COLLEGE OF BUSINESS ADMINISTRATION
 PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ADMINISTRATION

LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS
 PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ADMINISTRATION

CHECKED BY: [Signature]
 DRAWN BY: [Signature]

APPROVED BY: [Signature]
 PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ADMINISTRATION

SHEET CONTENT: AS SHOWN
 SHEET NO: E-18



ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

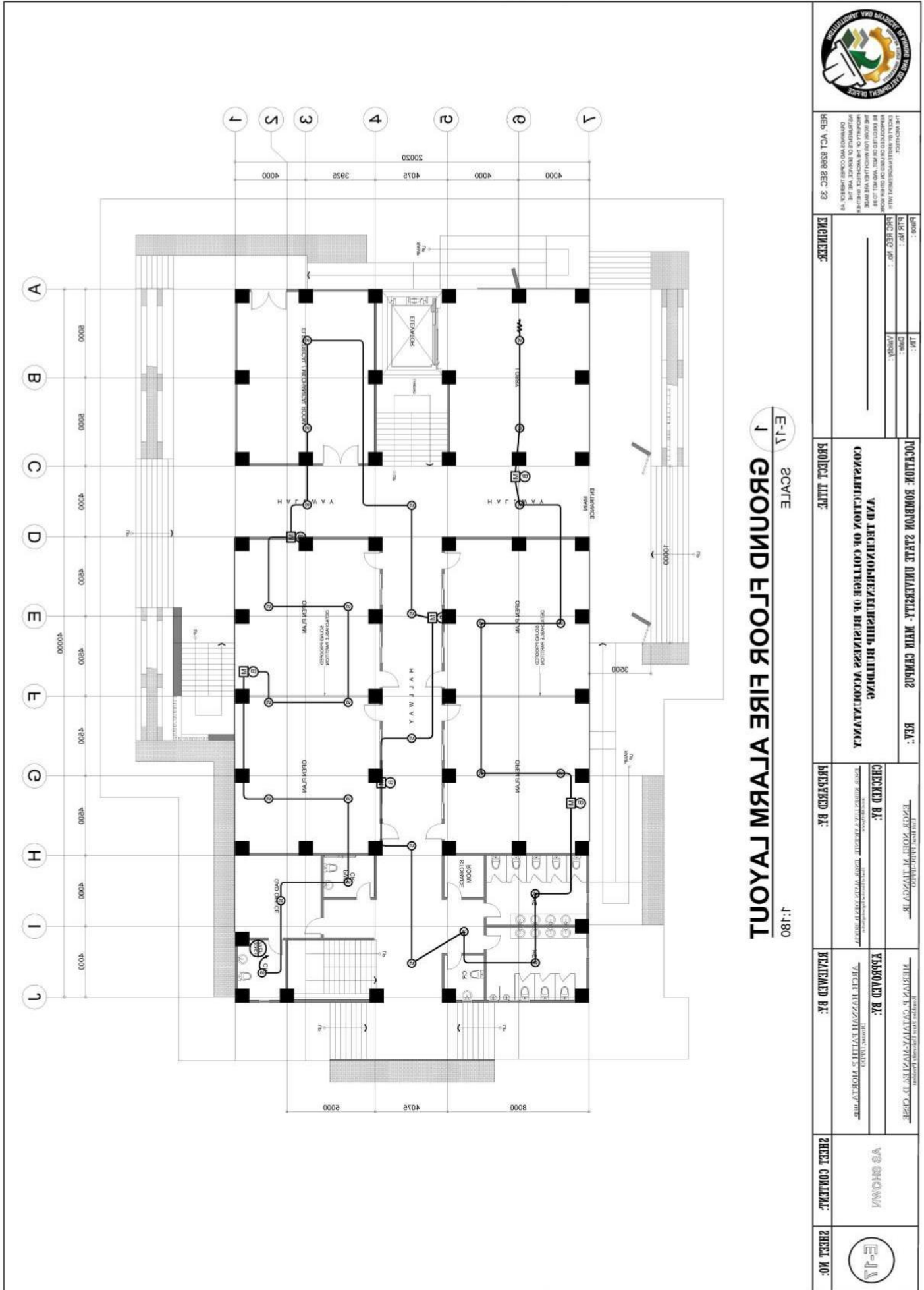
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E-11
1
SCALE
GROUND FLOOR FIRE ALARM LAYOUT
 1:180

	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.	DATE: _____ DRAWN BY: _____ CHECKED BY: _____ PROJECT TITLE: _____	POSITION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS VAD TECHNOLOGY/ENGINEERING BUILDING CONSOLIDATION OF COLLEGE OF BUSINESS ADMINISTRATION	CHECKED BY: _____ DATE: _____	REVISIONS: _____ DATE: _____	SHEET CONTENT: VS SHOW/1	SHEET NO.: E-11
	REF: VCL 8598 SEC. 23	PROJECT TITLE: _____	ENGINEER: _____	CHECKED BY: _____ DATE: _____	REVISIONS: _____ DATE: _____	SHEET CONTENT: _____	SHEET NO.: _____

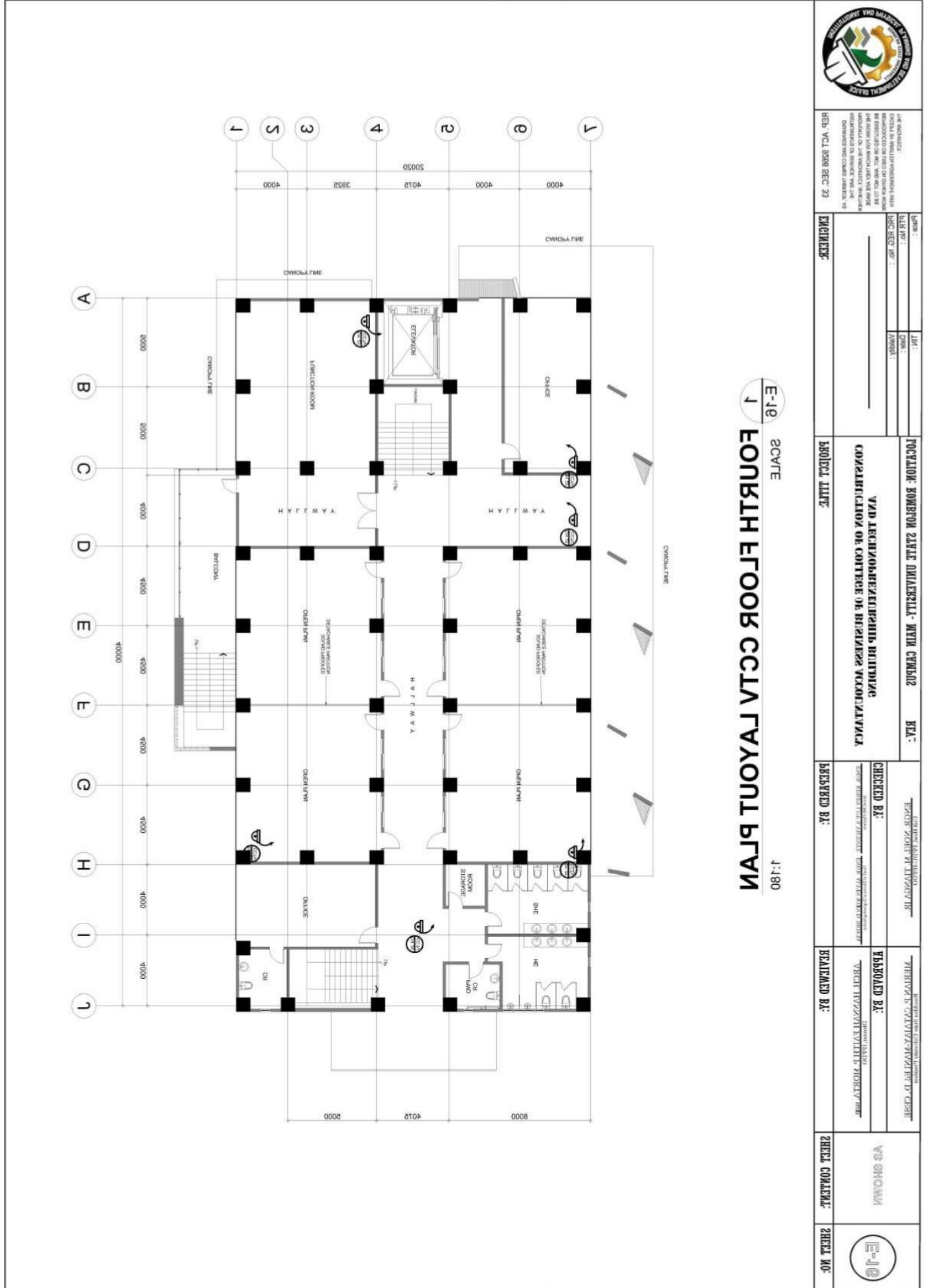


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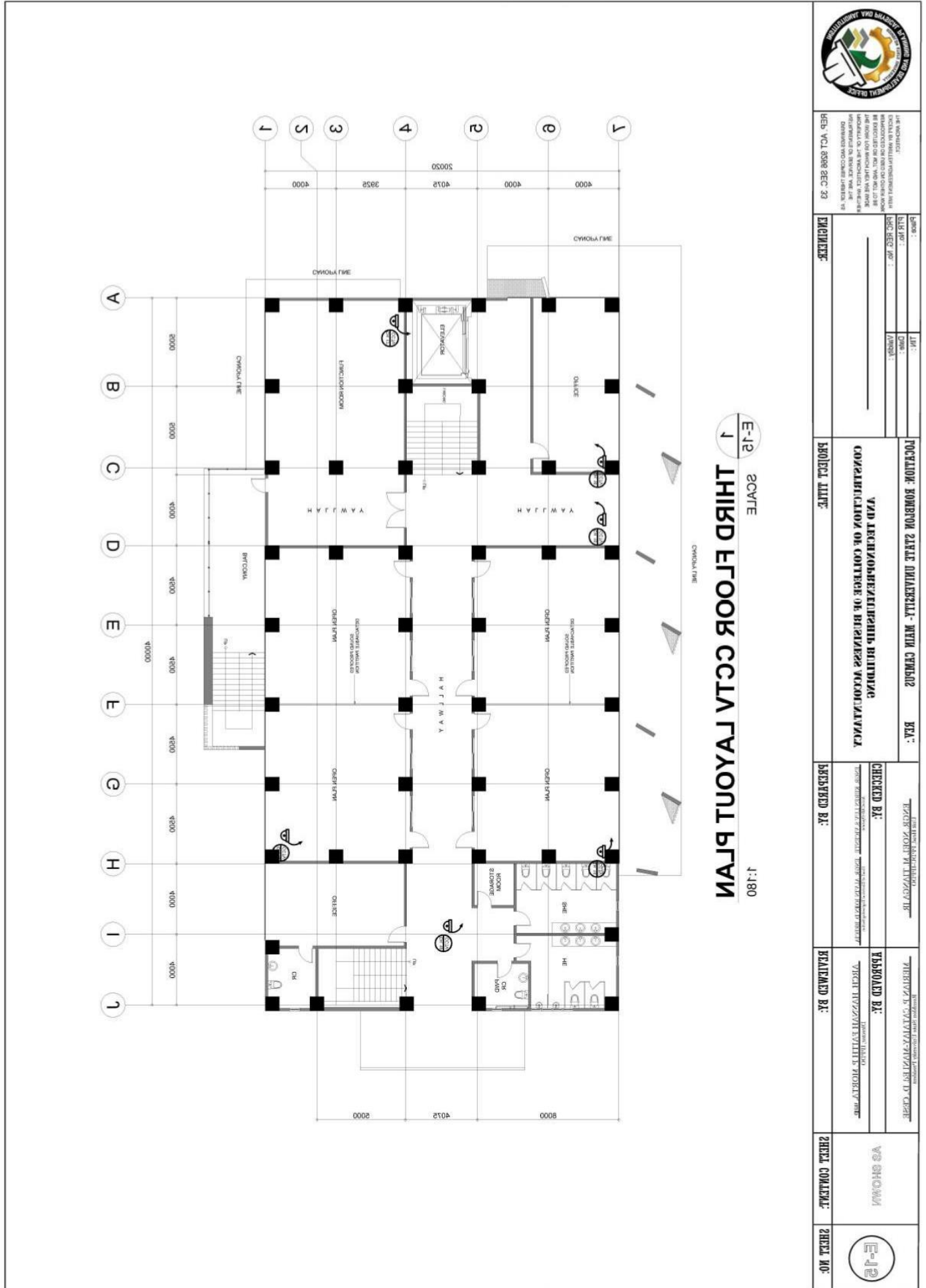
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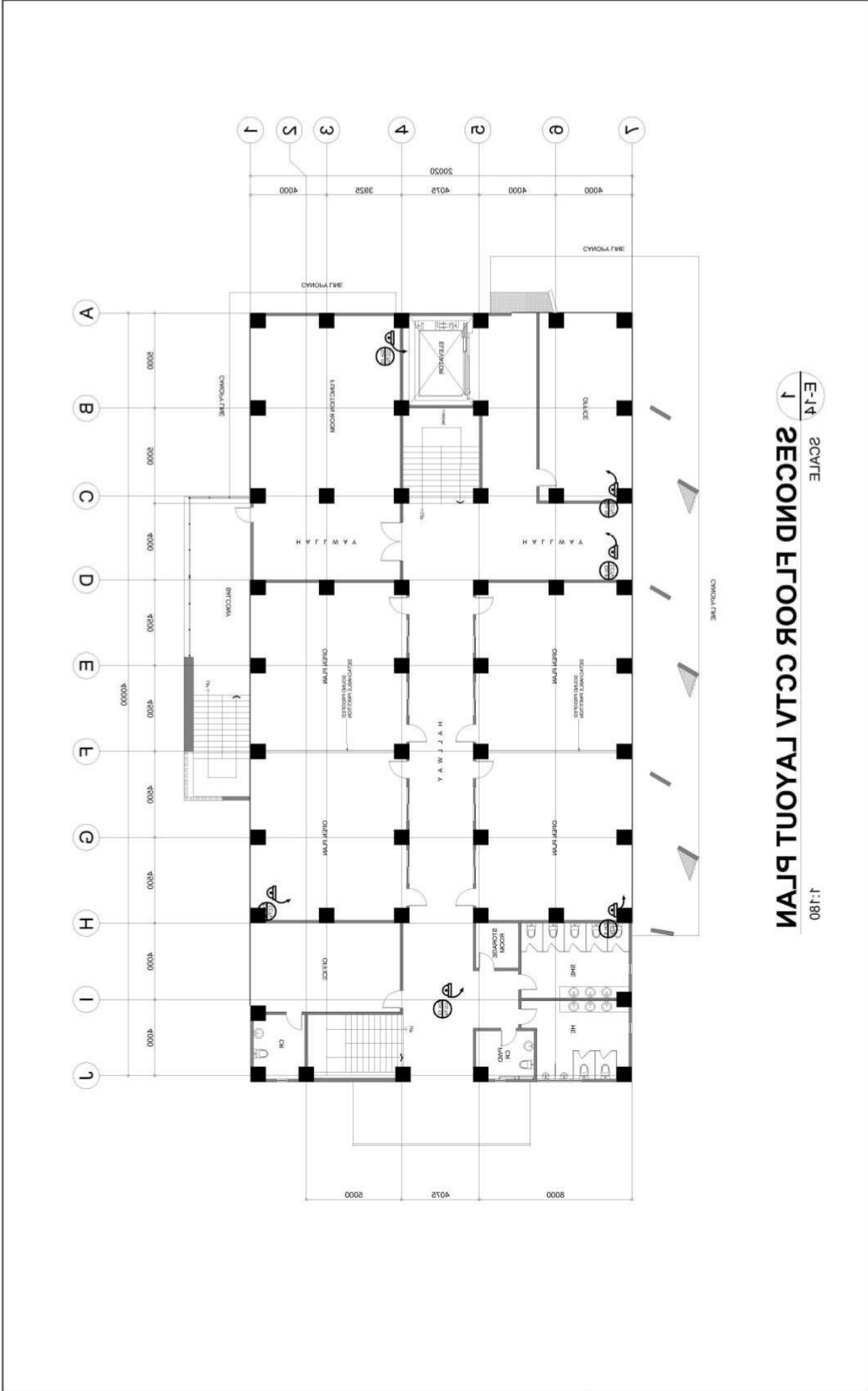
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E-14 SCALE 1:180
1 SECOND FLOOR CEILING LAYOUT PLAN

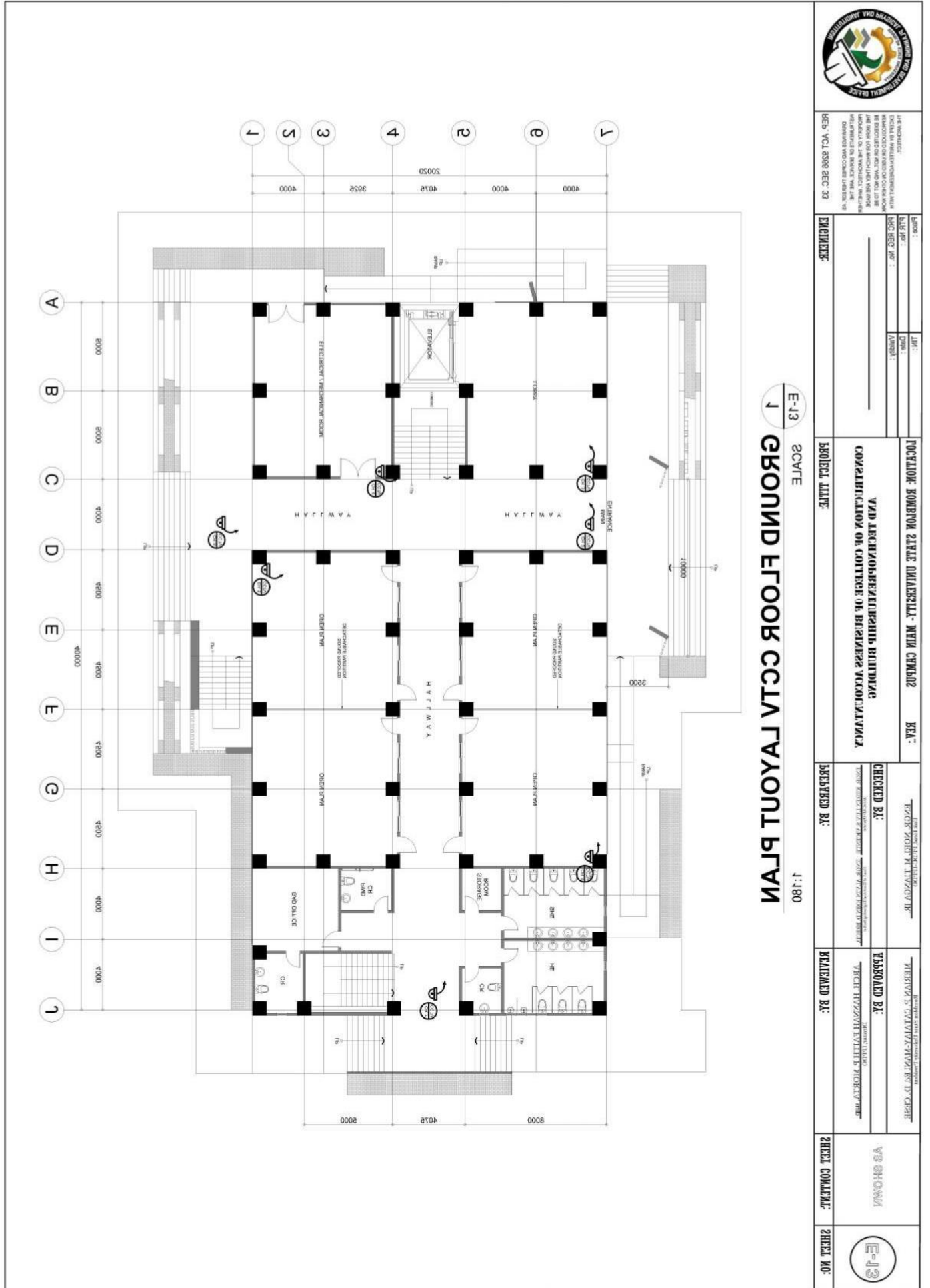


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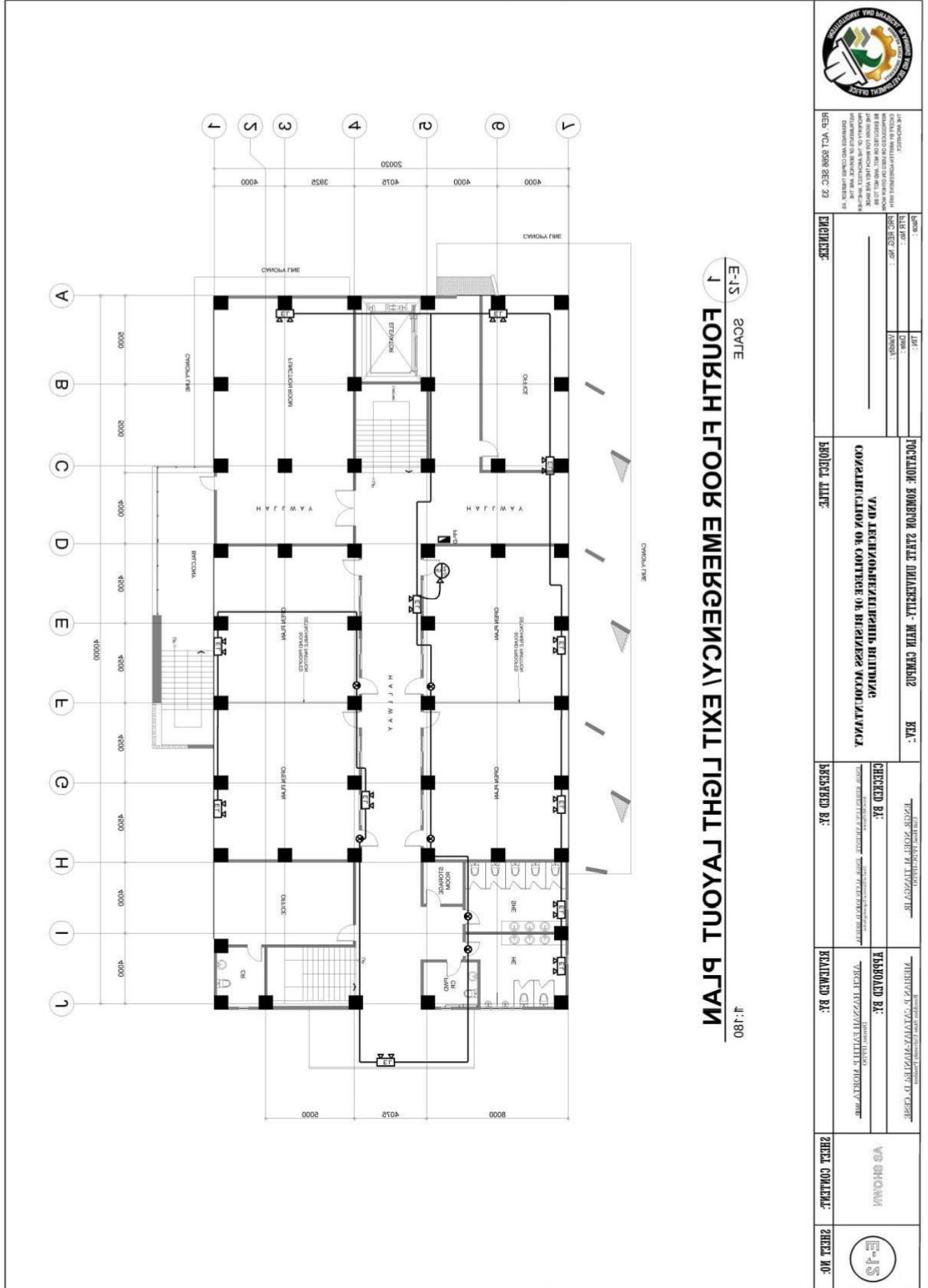


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	THE ENGINEER: REGISTERED PROFESSIONAL ARCHITECT THE ARCHITECT'S OFFICE: REGISTERED ARCHITECTS AND ENGINEERS INCORPORATED IN REPUBLIC OF THE PHILIPPINES OFFICE ADDRESS:	THE ARCHITECT: REGISTERED PROFESSIONAL ARCHITECT THE ARCHITECT'S OFFICE: REGISTERED ARCHITECTS AND ENGINEERS INCORPORATED IN REPUBLIC OF THE PHILIPPINES OFFICE ADDRESS:	THE ARCHITECT: REGISTERED PROFESSIONAL ARCHITECT THE ARCHITECT'S OFFICE: REGISTERED ARCHITECTS AND ENGINEERS INCORPORATED IN REPUBLIC OF THE PHILIPPINES OFFICE ADDRESS:	THE ARCHITECT: REGISTERED PROFESSIONAL ARCHITECT THE ARCHITECT'S OFFICE: REGISTERED ARCHITECTS AND ENGINEERS INCORPORATED IN REPUBLIC OF THE PHILIPPINES OFFICE ADDRESS:	THE ARCHITECT: REGISTERED PROFESSIONAL ARCHITECT THE ARCHITECT'S OFFICE: REGISTERED ARCHITECTS AND ENGINEERS INCORPORATED IN REPUBLIC OF THE PHILIPPINES OFFICE ADDRESS:



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 REGISTERED PROFESSIONAL ENGINEER
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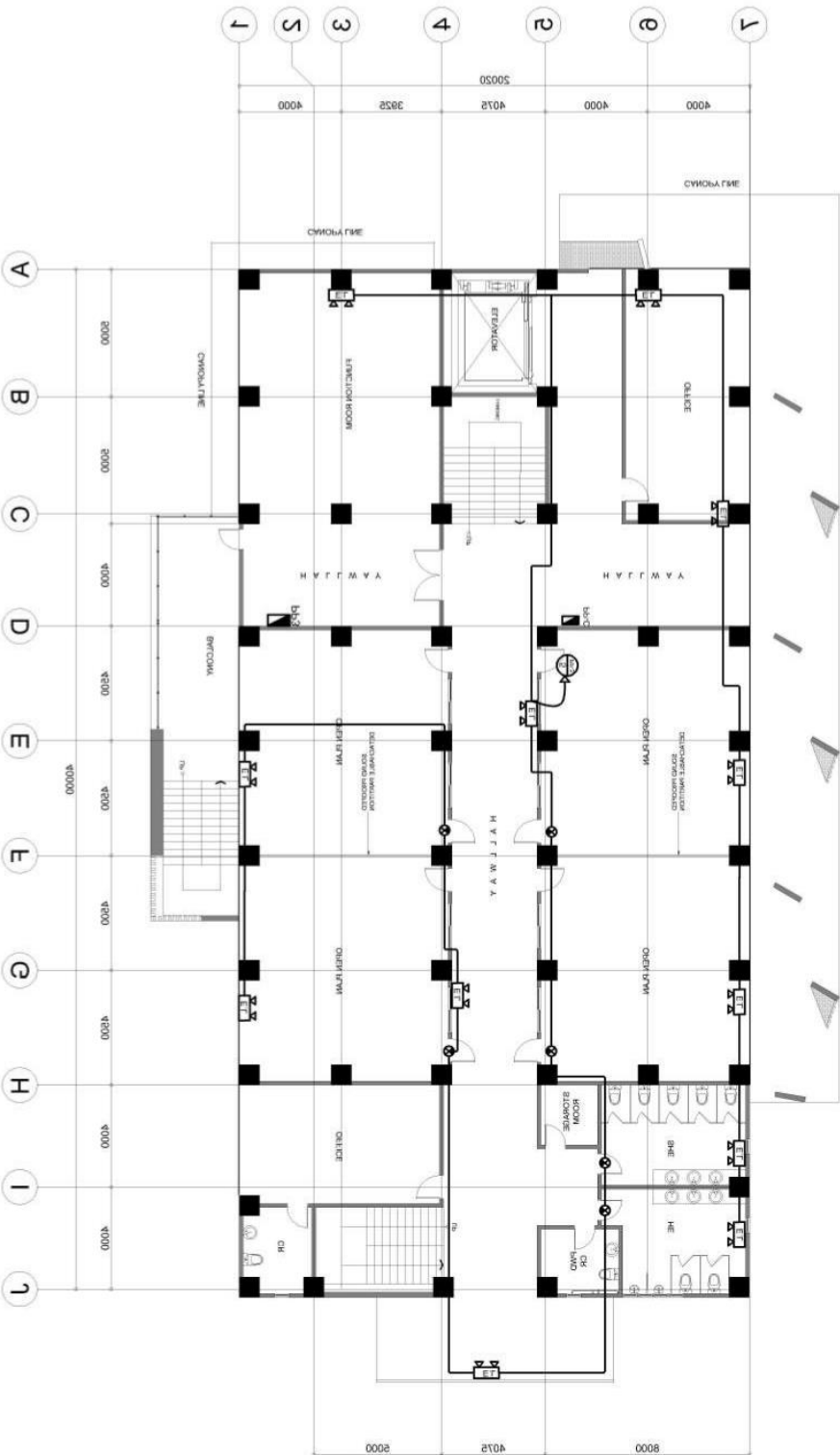
SHEET NO.:
 SHEET TITLE:
 PROJECT NAME:
 PROJECT DATE:

LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS
 PROJECT NAME: **YAN TEKNOLOHEKAPUNIB BAYANIK**
CONSTRUCTION OF COLLEGE OF BUSINESS WAKONGALANGA

CHECKED BY: [Signature]
 DRAWN BY: [Signature]

APPROVED BY: [Signature]
 REVIEWED BY: [Signature]

SHEET CONTENT: AS SHOWN
 SHEET NO.: E-11



E-11 SCALE
1
THIRD FLOOR EMERGENCY EXIT LIGHT LAYOUT PLAN
 1:180



ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

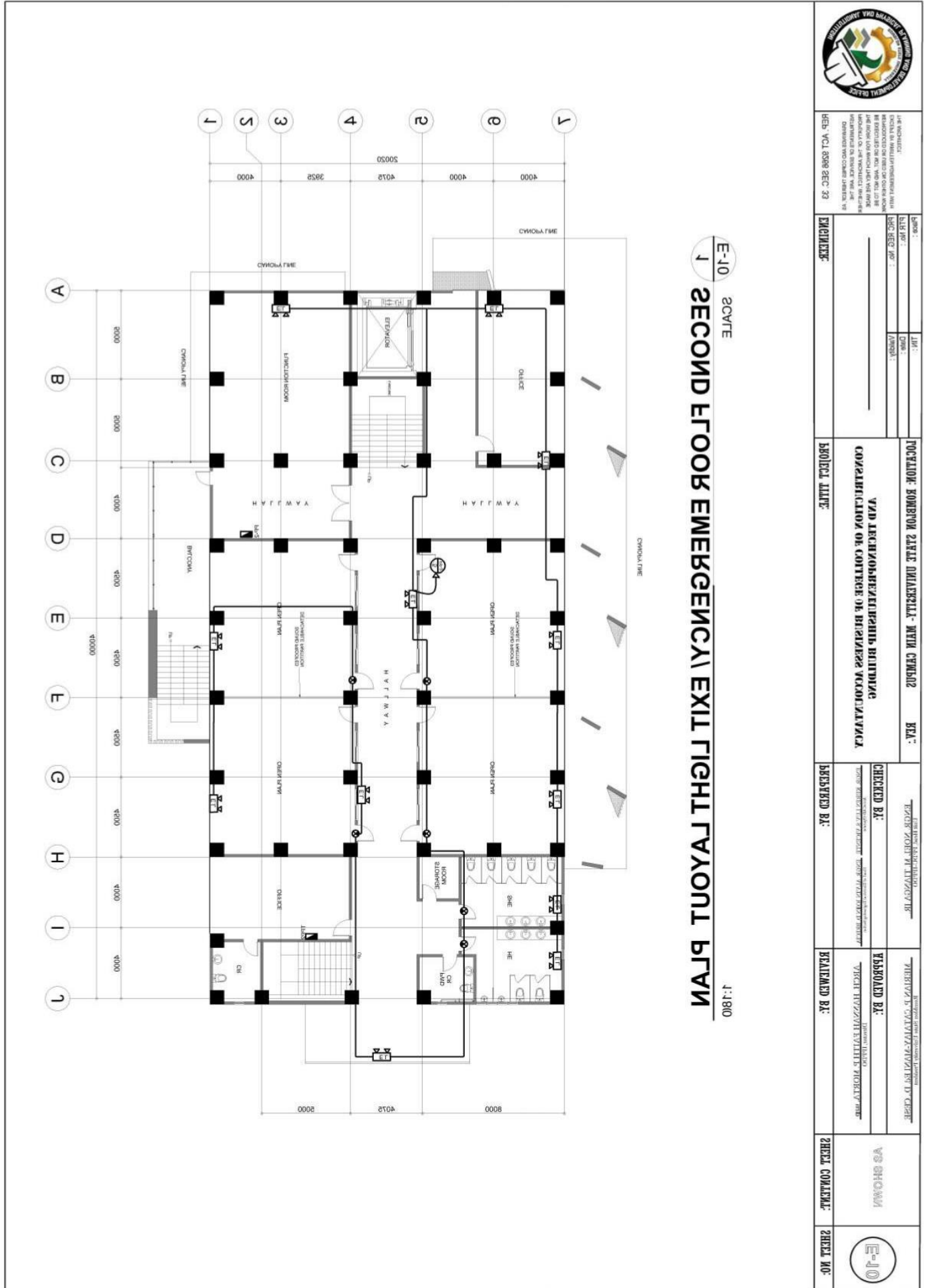
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E-10 SCALE
1 SECOND FLOOR EMERGENCY EXIT ROUTE LAYOUT PLAN
 1:180

		SHEET NO.: SHEET TITLE:	
REP. VOL. 0398 SEC. 33		PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ADMINISTRATION	
ENGINEER:		PREPARED BY:	
CHECKED BY:		REVISIONS BY:	
APPROVED BY:		SHEET CONTENT:	
SHEET NO.:		SHEET NO.:	



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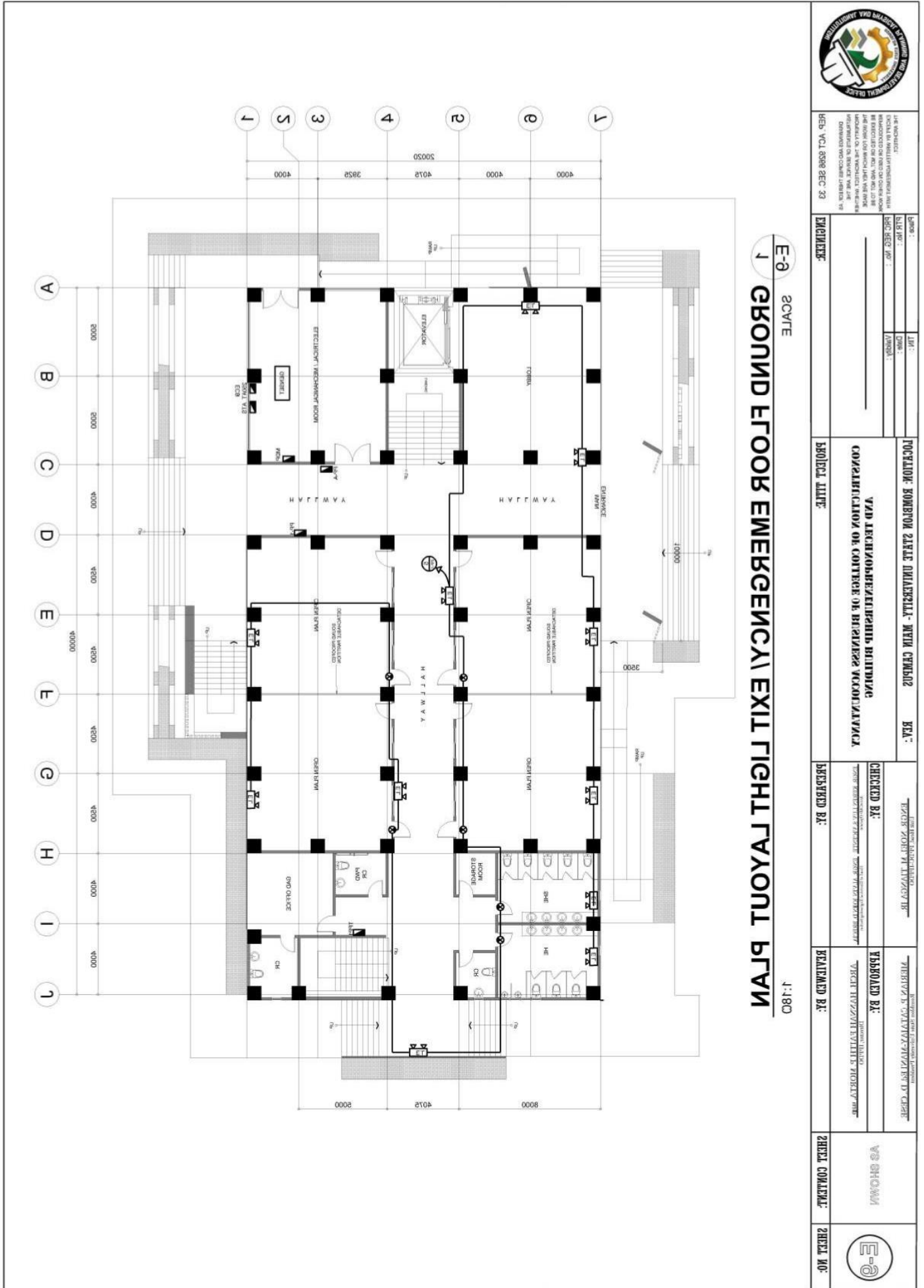
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E-9 SCALE
1 GROUND FLOOR EMERGENCY EXIT FLIGHT LAYOUT PLAN
 1:180

	SHEET NO.: SHEET CONTENT:	SHEET NO.: SHEET CONTENT:	PREPARED BY: CHECKED BY: APPROVED BY:	PROJECT TITLE: VAD AKRONOBYENKUNAN BUNING KONGRESYON NG KOLEHIYAL NG BUSINESS AKRONOBYENKUNAN	LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS BIA:	DATE:	REVISIONS:
	ENGINEER:	PROJECT DATE:	PREPARED BY:	CHECKED BY:	APPROVED BY:	DATE:	REVISIONS:



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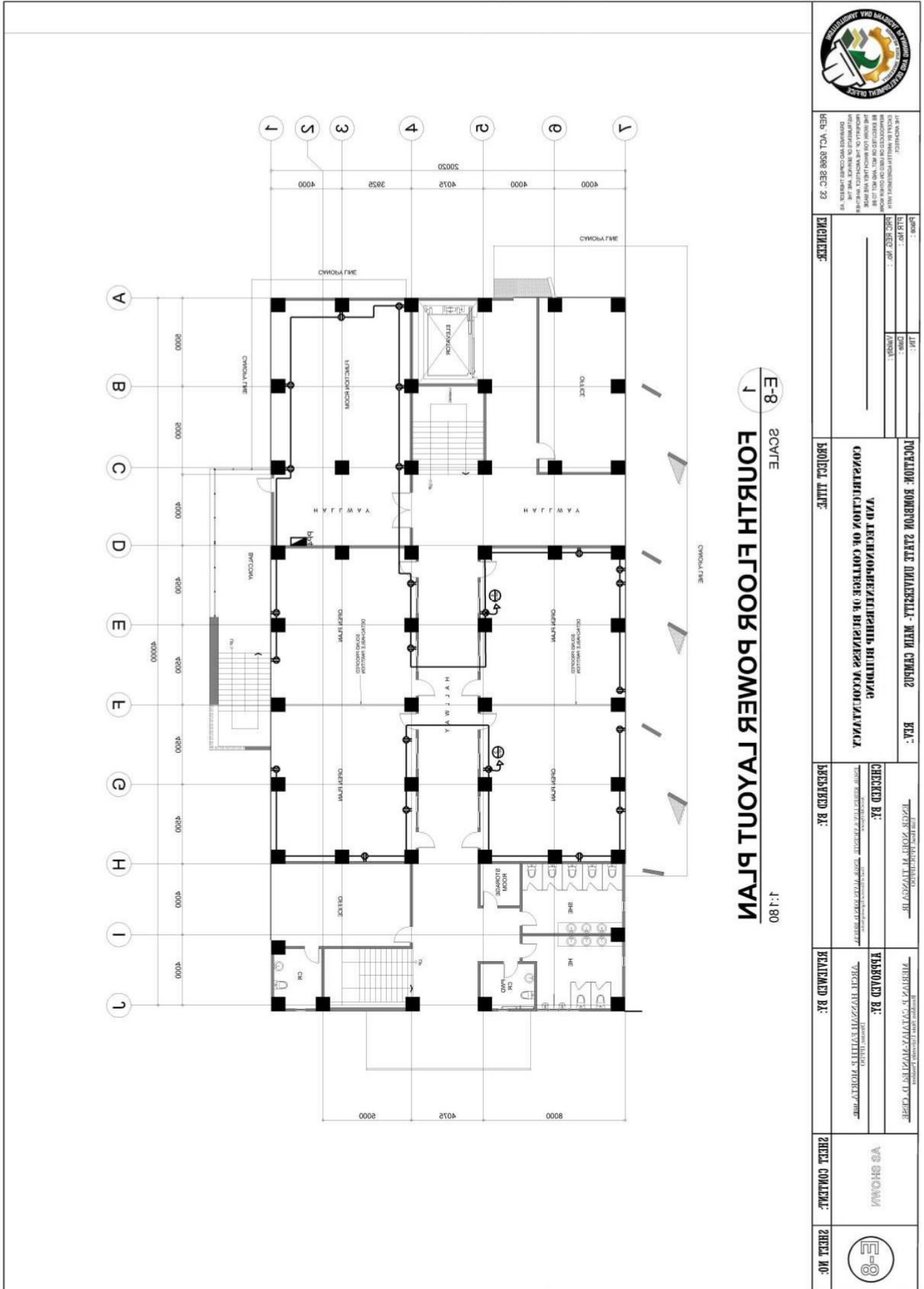
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<p>THE ENGINEER: SPECIAL IN ELECTRICAL ENGINEERING WITH HIS REGISTERED NO. 10110 AND REG. DATE 1987 AND HIS LICENSE NO. 10110-1987-10110 IS AUTHORIZED TO SIGN AND SEAL THIS INSTRUMENT OF SERVICE. THE ENGINEER, WHO IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT, SHALL BE THE REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING REG. NO. 10110-1987-10110.</p>	<p>Project: _____ BIR No.: _____ BAC REC. No.: _____ Date: _____ Location: _____</p>
<p>ENGINEER: _____</p>	<p>PROJECT: ROMBLON STATE UNIVERSITY - MAIN CAMPUS CONSULTATION ON COLLEGE OF BUSINESS RECONSTRUCTION</p>
<p>PROJECT TITLE: _____</p>	<p>PROJECT NO.: _____</p>
<p>DESIGNED BY: _____</p>	<p>CHECKED BY: _____</p>
<p>APPROVED BY: _____</p>	<p>APPROVED BY: _____</p>
<p>REVISIONS: _____</p>	<p>REVISIONS: _____</p>
<p>SHEET CONTENT: _____</p>	<p>SHEET NO.: E-8</p>



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION : PPI (future)
SYSTEM : 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED IN :
OUT :

Load Description	LOAD			CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS	
	VA	AMPERES		AT	AF	P	TYPE	SIZE (mm ² x Ø)	GND	SIZE (mm Ø)	TYPE		LENGTH (m)
		3Ø	ØAN										
1 Lightings	524	2.27		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2 Lightings	458		2	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3 C.O. x 9	1620			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4 C.O. x 10	1800			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
5 Emergency Light	55		0.24	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
7 ACU 2.0hp (phase 2)	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8 ACU 2.0hp (phase 2)	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9 ACU 1.5hp (phase 1)	1398		6.07	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10 ACU 2.5hp	2331			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
11 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12 ACU 2.5hp	2331			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15 ACU 2.5hp	2331			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17 ACU 2.5hp	2331			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18 Fire Alarm Control Panel	1000	4.34		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19 Spare	1000		4.34	30	50	1	THHN						
20 Space					50	1	THHN						
TOTAL	30,233.00	43.07	43.04										

Main Breaker : 100 AT, 100 AF, 3 P, 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² + E8.0mm² VIA PVC conduit
Calculation :

USE: 100AF Neutral Bus

Ic 0+(60)
@ 80% DF 60*0.8
If (48-10.13)+(1.25*10.13)
Icb (48-10.13)+30

	ENGINEER: REP. ACT 0286 SEC. 33 <small>DRAWINGS AND COPIES THEREOF, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY OF THE ENGINEER AND ARE NOT TO BE REPRODUCED OR USED IN OTHER WORK WITHOUT THE WRITTEN AGREEMENT WITH THE ARCHITECT.</small>	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	PREPARED BY: ENGR. JERENALYN A. VERZETE <small>Engr. - Electrical Engineering</small>	REVIEWED BY: ARCH. HANNAH FAITH P. MORTA, JR. <small>Director, EPPPO</small>	SHEET CONTENT: AS SHOWN	SHEET NO.: E-21
	PRG. REG. No. : PTR. No. : Place :	LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS REV.:	CHECKED BY: ENGR. NOEL M. TIANGA, JR. <small>Engr. - Electrical Engineering</small>	APPROVED BY: MERIAN P. CATAAYMANI, E.L.D., C.E. <small>Romblon State University President</small>		



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Romblon State University PANEL BOARD SCHEDULE

PROJECT: CBAT
DESIGNATION: BUS BAR GUTTER
SYSTEM: 230V, 1Ø, 60Hz
MIN. I.C.: _____

PREPARED BY: AJB
ENCLOSURE: NEMA 12
MOUNTING: WALL MOUNTED
FEED IN: _____
OUT: _____

Load Description	LOAD		CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS
	VA	A	AT	AF	P	TYPE	SIZE (mm ² x Gnd)	SIZE (mm Ø)	TYPE	LENGTH (m)	
1 TPPI	12722	55.28	100	100	2	THHN	22 x 2	8.0	25	PVC	
2 TPP2	12926	56.17	100	100	2	THHN	22 x 2	8.0	25	PVC	
TOTAL	25,648.00	111.45									

Ic = 111.45A
If = 139.31 A
Icb = 139.31 A
Total KVA: = 25.64 KVA
@ 80% Transformer Loading Limit: = 32.05 KVA

USE: 1-37.5kVA, 7.6kV/230V, 60Hz single phase pole mounted transformer

Emergency Breaker : 150 AT. 150 AF. 2 P. 230 V
Feeder : THHN 60mm² x 2, +E14.0 VIA PVC
Calculation : _____
USE: 150AF bus terminal

	ENGINEER: _____ PIR No. : _____ Place : _____	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	PREPARED BY: ENGR. REBEKAH S. SUENDE ENGR. ALVIN LOPEZ D. BECKA <small>Member of the Board of Engineering Examiners</small>	REVIEWED BY: ARCH. HANNAH FAITH P. MORTA, UPD <small>Director, IPPED</small>	SHEET NO.: E-28
	PRC REG. No. : _____ Date : _____ TIN : _____	LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS	REV.: _____	CHECKED BY: ENGR. NOEL M. TIANGA, JR. <small>Member of the Board of Engineering Examiners</small>	APPROVED BY: MERIAN P. CATALAN-MAÑALILI D. CESE <small>Member of the Board of Engineering Examiners</small>



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Romblon State University PANEL BOARD SCHEDULE

PROJECT: CBAT
DESIGNATION: TPP2
SYSTEM: 230V, 1Ø, 60Hz
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE: NEMA 12
MOUNTING: PAD MOUNTED
FEED IN:
OUT:

Load Description	LOAD		CKT. PROTECTION			CONDUCTOR		RACEWAY		REMARKS	
	VA	A	AT	AF	P	TYPE	SIZE (mm ² x Obs.)	GND	SIZE (mm Ø)		TYPE
1 Lightings	524	2.28	20	50	2	THHN	2.0 x 2	2.0	15	PVC	
2 C.O. x 9	1620	7.04	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
3 Emergency Lights	60	0.26	20	50	2	THHN	2.0 x 2	2.0	15	PVC	
4 ACU 1.5hp	1398	6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC	
5 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
6 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
7 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
8 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
TOTAL	12,926.00	56.17									

lc = 56.17A **Main Breaker** : 100 AT. 100 AF. 1 P. 230 V

If = 70.875 A **Feeder** : THHN 22mm² x 2, +E8.0 VIA PVC

lcb = 96.2 A **Calculation** :

	ENGINEER: REP. ACT 9266 SEC. 33 DRAWINGS AND CORRECT THEREOF AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT. WHENEVER THE WORK FOR WHICH THEY ARE MADE IS REPRODUCED OR USED IN OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	PREPARED BY: ENGR. JEREMY S. VICENTE, ENGR. JALIN LORDEL B. BREGALA, ENGR. JAYSON A. MARIANO	REVIEWED BY: ARCH. HANNAH FAITH P. MORTA, UEP, Division Office	SHEET CONTENT: AS SHOWN	SHEET NO.: E-27
	Validity: _____ Date: _____ Place: _____	CHECKED BY: ENGR. NOELM. TIANGA, JR., UEP, Main Office	APPROVED BY: MERIAN P. CATAHY-MANUEL, D. CESE, Romblon State Univ. Office - Panabitan			



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: TPP1
SYSTEM: 230V, 1Ø, 60Hz
MIN. I.C.: _____

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED IN: _____
OUT : _____

Load Description	LOAD		CKT. PROTECTION			CONDUCTOR			RACEWAY			REMARKS
	VA	A	AT	AF	P	TYPE	SIZE (mm ² x Obs.)	GND	SIZE (mm Ø)	TYPE	LENGTH (m)	
1 Lightings	500	2.17	20	50	2	THHN	2.0 x 2	2.0	15	PVC		
2 C.O. x 8	1440	6.26	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
3 Emergency Lights	60	0.26	20	50	2	THHN	2.0 x 2	2.0	15	PVC		
4 ACU 1.5hp	1398	6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
5 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
6 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
7 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
8 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
TOTAL	12,722.00	55.28										

Ic = 55.28A **Main Breaker** : 100 AT. 100 AF. 1 P. 230 V
If = 69.1 A **Feeder** : THHN 22mm² x 2, +E8.0 VIA PVC
Icb = 94.43 A **Calculation** :

	ENGINEER: <small>REPUBLIC ACT 9268 SEC. 33</small> <small>DRAWINGS AND COPIES THEREOF, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY OF THE ARCHITECT, WHETHER OR NOT THE ARCHITECT HAS BEEN REEMPLOYED OR NOT, AND NOT TO BE REPRODUCED OR USED IN OTHER WORK WITHOUT THE WRITTEN AGREEMENT WITH THE ARCHITECT.</small>	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	PREPARED BY: <small>ENGR. FERDINAND A. VERDELE ENGR. ANTONIO S. RECAL</small> <small>ENGR. HANNAH FAITH P. MORTA, UAP</small> <small>Electrician, RPPRO</small>	REVIEWED BY: <small>ENGR. NOEL M. JIANGA, JR.</small> <small>UAP, RPPRO</small>	SHEET CONTENT: AS SHOWN	SHEET NO.: E-26
	Validity: _____ Date: _____ Title: _____	PRG REG. No. : _____ PTR No. : _____ Place: _____	LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS	CHECKED BY: <small>ENGR. MERIAN P. CATAMAY-MANTE Ed. D. CESE</small> <small>Romblon State University President</small>	APPROVED BY:	



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: MDP (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED IN :
OUT :

Load Description	LOAD			CKT. PROTECTION			CONDUCTOR			RACEWAY			REMARKS
	Total (VA)	AMPERES		AT	AF	P	TYPE	SIZE (mm ² x Chnl.)	GND	SIZE (mm Ø)	TYPE	LENGTH (m)	
		3Ø	ØAN										
1 PP1	30,233.00	0	43.07	43.03	100	110	3	THHN	22 x 4	8.0	15	PVC	
2 PP2	33,662.00	0	50.99	47.05	100	110	3	THHN	22 x 4	8.0	15	PVC	
3 PP3	37,424.00	0	58.89	50.8	100	110	3	THHN	22 x 4	8.0	15	PVC	
5 PP4	38,394.00	0	58.94	51.28	100	110	3	THHN	22 x 4	8.0	15	PVC	
6 Elevator	20,000.00	28.86			60	60	3	THHN	8.0 x 4	3.5	15	PVC	
7 Fire Pump (lockey)	1865				30	30	1	THHN	3.5 x 2	2.0	15	PVC	
8 water pump	2500				30	30	1	THHN	3.5 x 2	2.0	15	PVC	
9 Spare	1500				30	30	3	THHN					
10 Space					30	30	3	THHN					
TOTAL	165,578.00	28.86	211.89	211.13									

Ic 28.86+(211.97) = 240.83 A
@ 80% DF 240.83*0.8 = 192.66 A
If (192.66-58.94)+(1.25*58.94) = 207.39 A
Icb (192.66-58.94)+100 = 233.72 A
total kVA: = 165.57 kVA
@ 80% Demand Factor: = 132.45 kVA
@ 80% TR Loading Limit: = 165.57 kVA
@ 70% Genset Loading Limit: = 236.52 kVA

USE: 200kVA, 13.2KV/400V 3 phase with neutral, Pad mounted cabinet type oil immersed transformer
 250kVA, 400V/230V, 3 phase, 60Hz, Silent Type Diesel Generator

USE: 250AF Neutral Bus Terminal

Main Breaker : 250 AT, 250 AF, 3 P, 400 V
Feeder : THHN 1-125mm² x 3, + N125mm² + E22mm² VIA PVC Conduit
Calculation :

	ENGINEER:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	SHEET CONTENT:	SHEET NO.:
	<small>REPUBLIC ACT 9296 SEC. 33 I, ENGINEER, DO HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER AND AM REGISTERED WITH THE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS, PHILIPPINES. THE WORK FOR WHICH THEY ARE MADE IS EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.</small>	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING LOCATION: ROMBLON STATE UNIVERSITY- MAIN CAMPUS	ENGR. NOEL M. TANGCA JR. <small>(Civil/Structural Engineering)</small>	ARCH. HANNAH FAITE P. MORTA, MSP. <small>(Architecture)</small>	AS SHOWN	E-25
<small>Validty: _____ Date: _____ Title: _____</small>	PROG REG. No. : PTR No. : Place :	ENGR. NOEL M. TANGCA JR. <small>(Civil/Structural Engineering)</small>	APPROVED BY: MEERLAN P. CATAYAN-MANI Ed. D., CESE <small>Romblon State University, Liwanag</small>			



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: PP4 (future)
SYSTEM: 400V, 3Ø, 60HZ.
MIN. I.C.:

PREPARED BY: A.J.B
ENCLOSURE: NEMA 12
MOUNTING : PAD MOUNTED
FEED IN :
OUT :

Load Description	LOAD			CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS	
	VA	AMPERES		AT	AF	P	TYPE	SIZE (mm ² x Ckt.)	GND	SIZE (mm)	TYPE		LENGTH (m)
		3Ø	ØAN										
1 Lightings	510	2.22		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2 Lightings	516		2.4	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3 C.O. x 8	1440			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4 C.O. x 15	2700		11.7	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
5 Emergency Lights	60		0.26	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
6 ACU 2.0hp	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
7 ACU 2.0hp	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10 ACU 1.5hp	1398		6.07	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
11 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
20 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
11 Spare	1000		4.34	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12 Space					50	1							
TOTAL	38,394.00	58.94	51.28	56.77									

Ic $0+(58.94) = 58.94 \text{ A}$
@ 80% DF
 $58.94 \times 0.8 = 47.15 \text{ A}$
If $(47.15-10.13)+(1.25 \times 10.13) = 49.68 \text{ A}$
Icb $(47.15-10.13)+30 = 67.02 \text{ A}$

Main Breaker : 100 AT, 100 AF, 3 P, 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8-0mm² VIA PVC conduit
Calculation :
USE: 100AF Neutral Bus

	ENGINEER: REP. ACT 9266 SEC. 33 <small>DRAWINGS AND COPIES THEREOF, AS WELL AS THE WORK THEREON, ARE THE PROPERTY OF THE ARCHITECT. THESE DRAWINGS ARE NOT TO BE REPRODUCED, COPIED, OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AGREEMENT OF THE ARCHITECT.</small>	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPREURSHIP BUILDING	PREPARED BY: ENGR. MERIEN L. VICENTE ENGR. ALVIN L. B. BERNIA <small>State of Division Engineering Office</small>	REVIEWED BY: ARCH. HANNAH FAITH P. MORTA, RUP. Director, IPFDD	SHEET NO.:
	Validity: _____ Date: _____ TIN: _____	CHECKED BY: ENGR. NOEL M. TIANGA JR. <small>Unit Head, IPFDD</small>	APPROVED BY: MERIAN P. CALAHAY-MANI Ed. D. CESE <small>Assistant Unit Chief, IPFDD</small>	SHEET CONTENT: AS SHOWN	



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: PP3 (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED IN :
OUT :

Load Description	LOAD			CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS
	VA	AMPERES		AT	AF	P	TYPE	SIZE (mm ² x Ø) (mm ² x Ø)	TYPE	LENGTH (m)		
		3Ø	ØAN								ØBN	
1 Lightings	500	2.17		20	50	1	THHN	2.0 x 2	2.0	15	PVC	
2 Lightings	456		1.98	20	50	1	THHN	2.0 x 2	2.0	15	PVC	
3 C.O. x 8	1440		6.3	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
4 C.O. x 10	1800		7.8	30	50	1	THHN	3.5 x 7	2.0	15	PVC	
5 Emergency Light	60		0.2	20	50	1	THHN	2.0 x 2	2.0	15	PVC	
6 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC	
7 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC	
8 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC	
9 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC	
10 ACU 1.5hp	1398		6.07	20	50	1	THHN	3.5 x 2	2.0	15	PVC	
11 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
12 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
13 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
14 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
15 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
16 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
17 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
18 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
19 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
20 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
11 Spare	1000		4.34	30	50	1						
12 Spacc				30	50	1						
TOTAL	37,424.00	-	58.89	50.80	52.87							

Ic 0+(58.89)
@ 80% DF = 58.89*0.8 = 47.11 A
If (47.11-10.13)+(1.25*10.13) = 49.64 A
Icb (47.11-10.13)+30 = 66.98 A

USE: 100AF Neutral Bus

Main Breaker : 100 AT, 100 AF, 3 P, 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation :

ENGINEER: <small>REVISIONS AND CORRECTIONS TO BE MADE BY THE ARCHITECT. THE WORK FOR WHICH THEY ARE MADE SHALL BE REPRODUCED OR USED ON OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.</small> PRC REG. No. : PIR No. : Place :	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	PREPARED BY: <small>ENGR. JEREMY S. VICENTE</small> ENGR. JALIN GORAL D. BEREAL <small>Engr. Jalin Gorald Bereal</small>	REVIEWED BY: <small>ARCH. HANNAL FAITH P. MORTA, UBP.</small> <small>Arch. Hannal Faith P. Morta</small>	SHEET NO.:
		CHECKED BY: <small>ENGR. NOELM TIANGA JR.</small> <small>Engr. Noelm Tianga Jr.</small>	APPROVED BY: <small>MERIAN P. CATHAY-MANILA D. CEBE.</small> <small>Merian P. Cathay-Manila D. Cebe</small>	SHEET CONTENT: AS SHOWN
REP. ACT 9266 SEC. 33 <small>DRAWINGS AND CORRECTIONS TO BE MADE BY THE ARCHITECT. THE WORK FOR WHICH THEY ARE MADE SHALL BE REPRODUCED OR USED ON OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.</small>	LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS	REV.:		



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: PP2 (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE: NEMA 12
MOUNTING: PAD MOUNTED
FEED IN :
OUT :

Load Description	LOAD			CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS	
	VA	AMPERES		AT	AF	P	TYPE	SIZE (mm ² x Obs.)	GND	SIZE (mm Ø)	TYPE		LENGTH (m)
		3Ø	ØAN										
1 Lightings	500	2.17		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2 Lightings	456	1.98		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3 C.O. x 8	1440		6.3	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4 C.O. x 7	1260		7.8	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
5 C.O. x 8	1440		6.3	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
5 Emergency Lights	60	0.2		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
6 ACU 2.0hp	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
7 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10 ACU 1.5hp	1398		6.07	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
11 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19 Spare	1000		4.34	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
20 Space				30	50	1							
TOTAL	33,662.00	50.99	47.05	50.56									

Ic 0+(60) = 60 A
@ 80% DF 60*0.8 = 48 A
If (48-10.13)+(1.25*10.13) = 50.53A
Icb (48-10.13)+30 = 67.87 A

USE: 100AF Neutral Bus

Main Breaker : 100 AT, 100 AF, 3 P, 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation :

	ENGINEER:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	SHEET CONTENT:	SHEET NO.:
	REP. ACT 9266 SEC. 33 DRAWINGS AND COPIES THEREOF AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ENGINEER AND SHALL BE USED ONLY FOR THE WORK FOR WHICH THEY ARE MADE. THEY ARE NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	ENGR. HEBERLUIS S. VENTURA ENGR. ALVIN JESUS D. BRIGIDA ENGR. HANNAH FAITH P. MORTA, IEP Director: EPPDO	ENGR. NOEL M. TIANGA JR. Civil Engr. PRC-03990	ENGR. HANNAH FAITH P. MORTA, IEP Director: EPPDO	AS SHOWN
PRG REC. No. : PTR No. : File:	LOCATION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS	ENGR. NOEL M. TIANGA JR. Civil Engr. PRC-03990	ENGR. MERIAN P. CATAYAN-MAÑE, E.L. CESE Assistant Engr. Civil Engr. PRC-1461	ENGR. MERIAN P. CATAYAN-MAÑE, E.L. CESE Assistant Engr. Civil Engr. PRC-1461		



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LET No. 8298 SEC. 39
 REP. VOL. 8298 SEC. 39

PROJECT NO.:	DATE:
PROJECT NAME:	SCALE:
PROJECT LOCATION:	PROJECT DATE:

POSITION: ROMBLON STATE UNIVERSITY - MAIN CAMPUS

CONSTRUCTION OF CONFERENCE BUILDING

PROJECT DATE:

CHECKED BY:
 ENGR. JOHN P. LAYAGUE JR.

PREPARED BY:

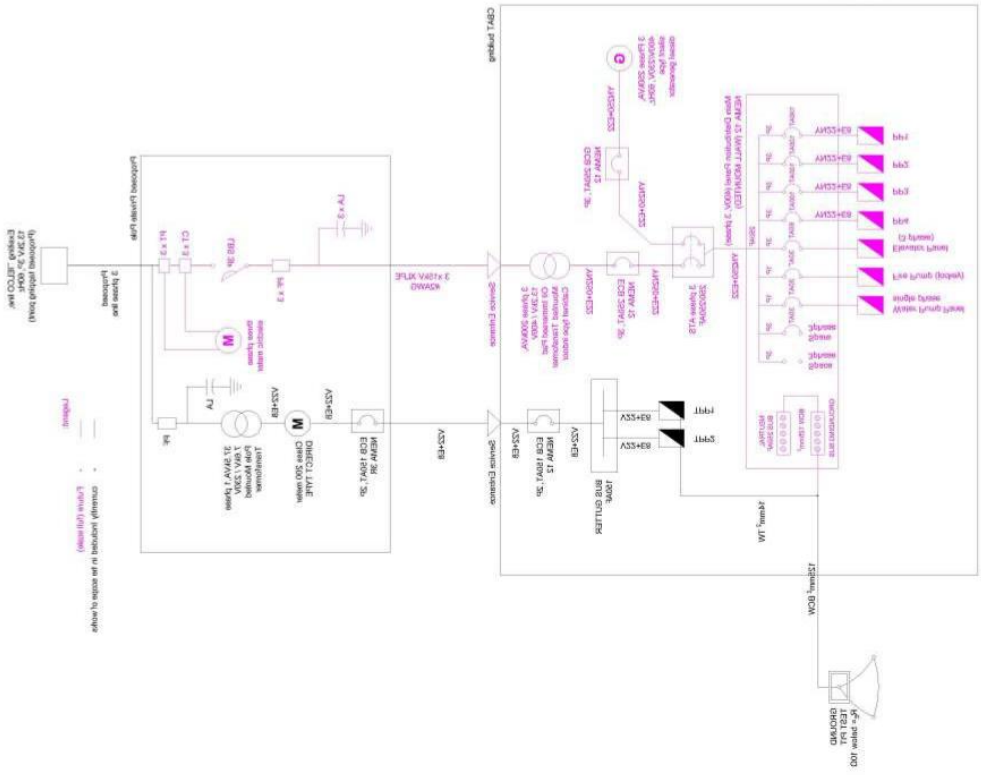
APPROVED BY:
 YVES S. CALIBAN

REAPPROVED BY:

SHEET NO.:



E-58 SCALE
1 SINGLE LINE DIAGRAM
 1:180





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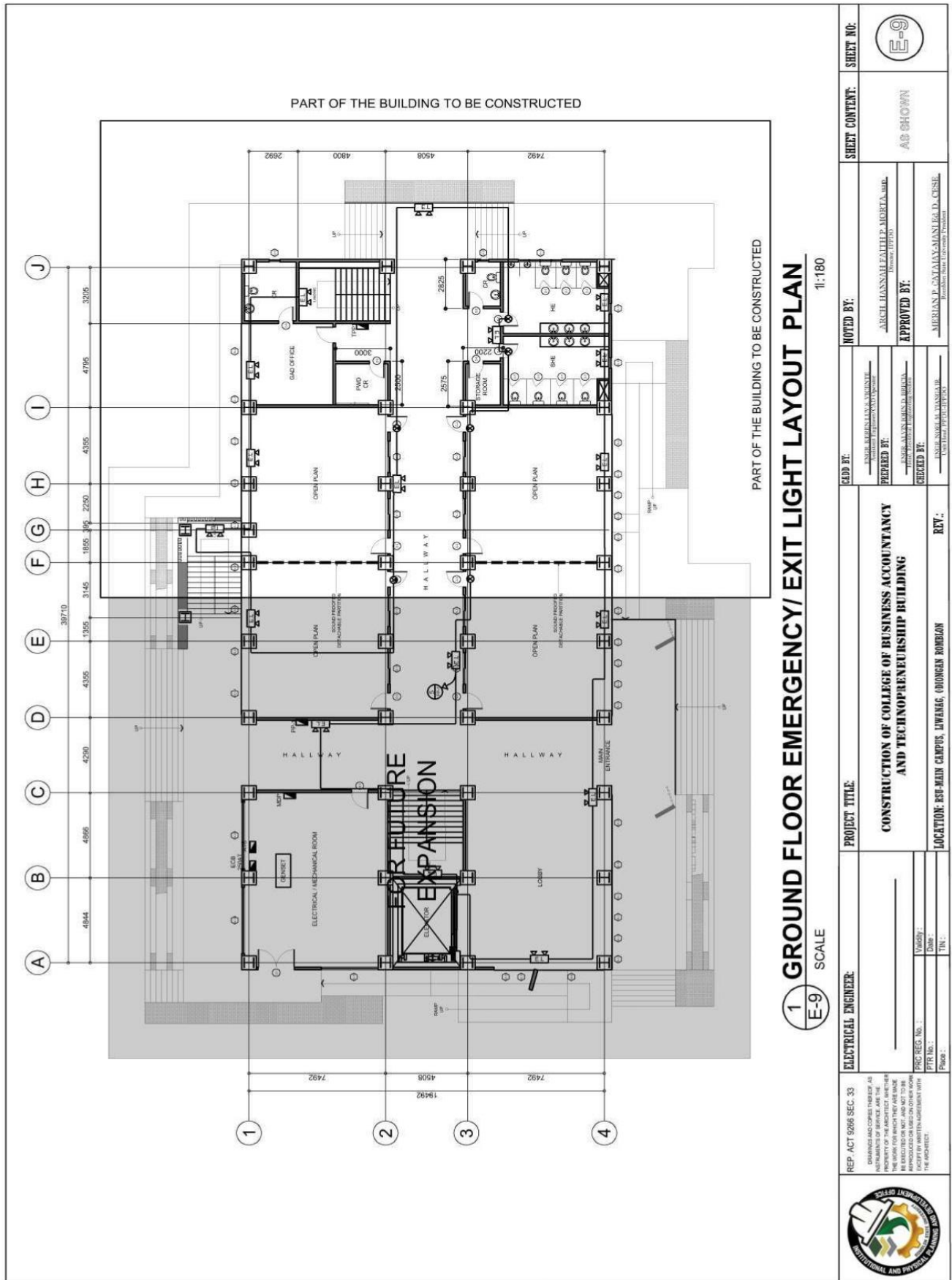


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TO



1 GROUND FLOOR EMERGENCY/ EXIT LIGHT LAYOUT PLAN
 SCALE 1:180

REP. ACT 9268 SEC. 33 <small>DRAWINGS AND COPIES THEREOF AS PREPARED BY THE ARCHITECT ARE THE PROPERTY OF THE ARCHITECT AND NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN AGREEMENT WITH THE ARCHITECT.</small>	ELECTRICAL ENGINEER: _____ PRC REG. No. : _____ PTR No. : _____ Date: _____ Title: _____	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNO-ENTREPRENEURSHIP BUILDING LOCATION: ESP-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	NOTED BY: _____ PREPARED BY: _____ CHECKED BY: _____	SHEET CONTENT: AS SHOWN	SHEET NO.:
	APPROVED BY: _____ _____ _____	APPROVED BY: _____ _____ _____	REV.: _____	APPROVED BY: _____ _____ _____	APPROVED BY: _____ _____ _____



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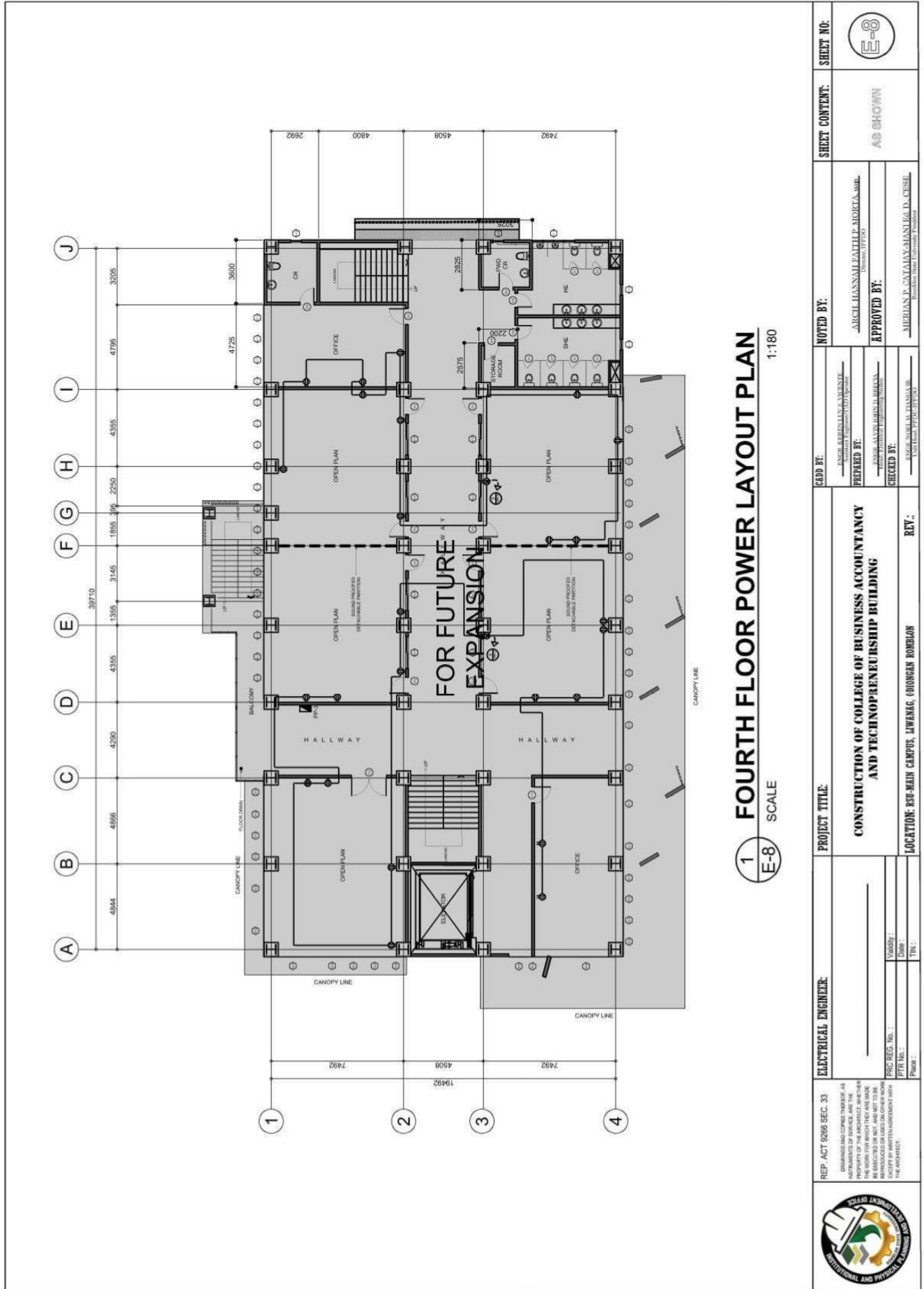
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1
E-8
FOURTH FLOOR POWER LAYOUT PLAN
 SCALE 1:180

REPUBLIC ACT 9296 SEC. 33 <small>DISBURSE AND COPIES THEREOF AS AUTHORIZED BY THE BIDS AND AWARDS COMMITTEE OF THE UNIVERSITY OF THE PHILIPPINES - ROMBLON CAMPUS. THESE COPIES WHICH ARE MADE BY THE ARCHITECT SHALL BE RECORDED OR NOT, AND NOT TO BE REPRODUCED OR COPIED WITHOUT THE WRITTEN AGREEMENT WITH THE ARCHITECT.</small>	ELECTRICAL ENGINEER NAME: _____ REG. NO.: _____ PTR. NO.: _____ PRC NO.: _____	PROJECT TITLE CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	NOTED BY: _____ APPROVED BY: _____ _____ _____	SHEET CONTENT: AS SHOWN	SHEET NO: E-8





ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

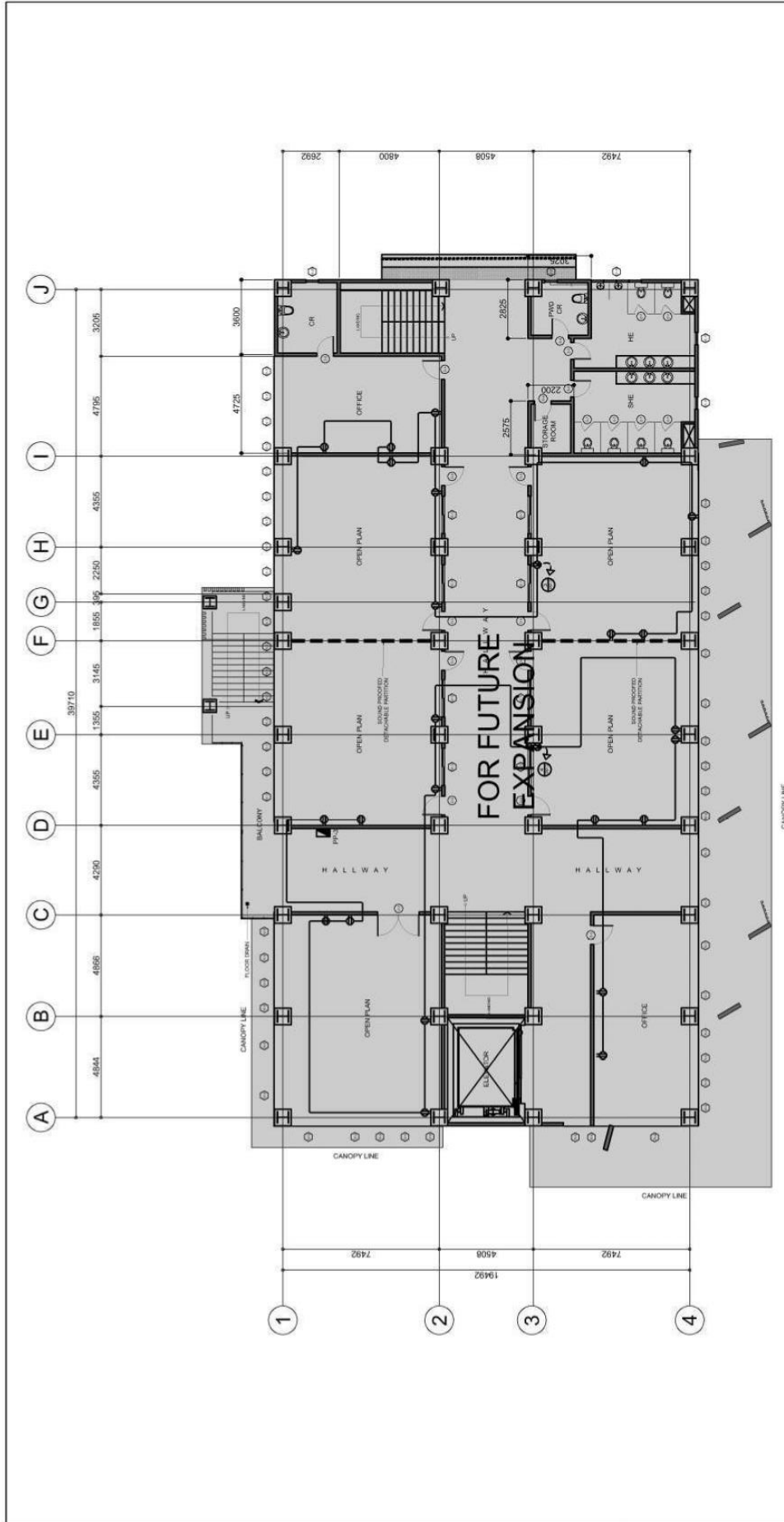
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1 THIRD FLOOR POWER LAYOUT PLAN
 SCALE 1:180
E-7

REPUBLIC ACT 9266 SEC. 33 <small>DESIGNS AND COPIES THEREOF AS PREPARED BY AN ARCHITECT OR AN ENGINEER SHALL BE THE PROPERTY OF THE ARCHITECT OR ENGINEER. NO PART THEREOF SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.</small>	ELECTRICAL ENGINEER: _____ NAME: _____ PRR REG. NO.: _____ PTR NO.: _____ PRACTICE NO.: _____	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	NOTED BY: _____ NAME: ARCEL HANNAL FALTEP, MORLA, BUL. (Director, 199704)	SHEET CONTENT: AS SHOWN	SHEET NO.: E-7
	REV.: _____ NAME: _____ TITLE: _____	APPROVED BY: _____ NAME: MIRIAN P. SASTRANANGAN, Ph.D. (CUSEL, 19980808, Romblon State University, Division Office)	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	CHECKED BY: _____ NAME: _____ TITLE: _____	PREPARED BY: _____ NAME: _____ TITLE: _____



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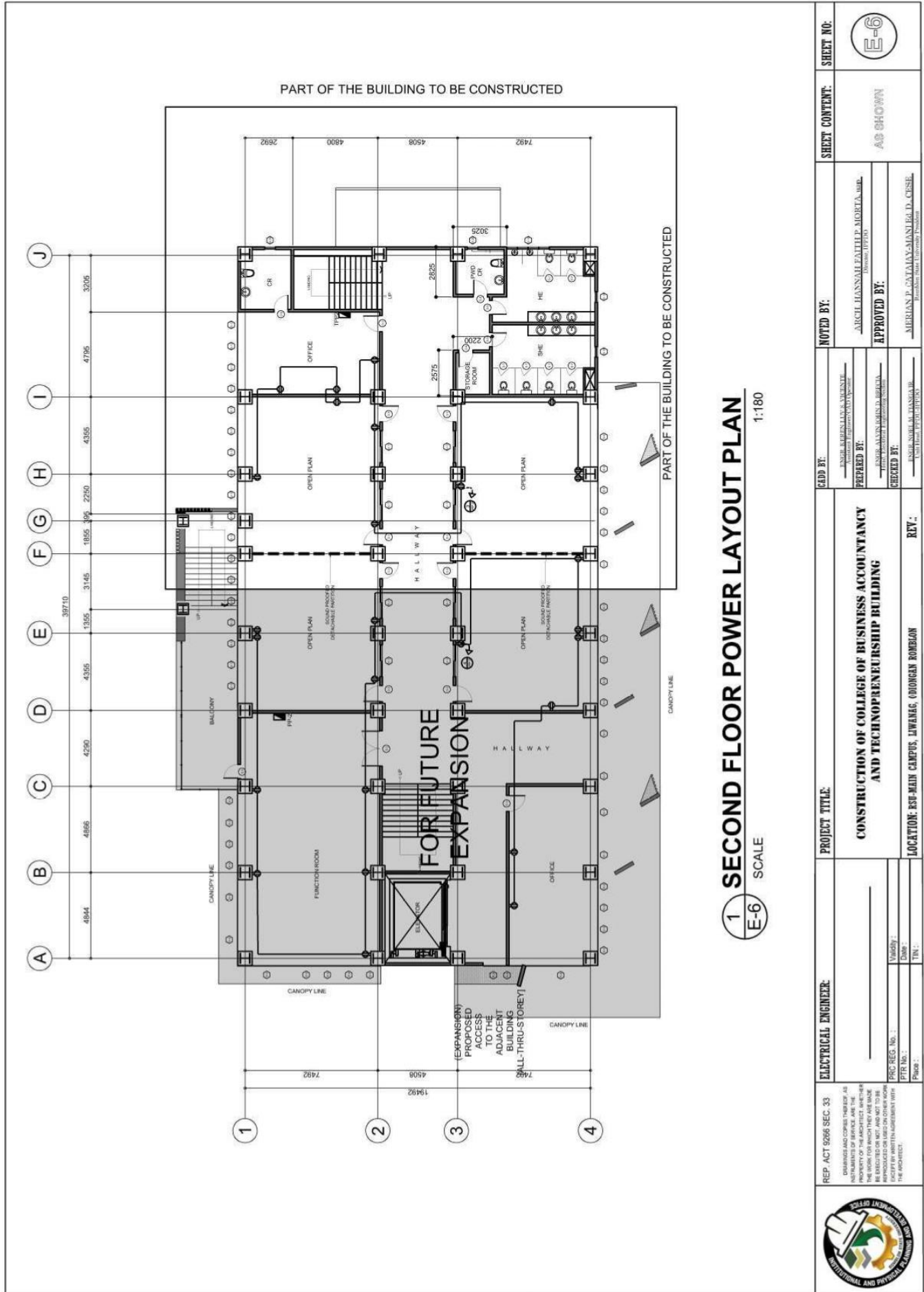
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1 SECOND FLOOR POWER LAYOUT PLAN
 SCALE 1:180

REP. ACT 9266 SEC. 33 <small>DUPLICATED AND COPIES THEREOF AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND SHALL BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.</small>	ELECTRICAL ENGINEER: _____ <small>(Signature)</small> _____ <small>(Name)</small>	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	NOTED BY: AIRCHIL HANSSAL FAITHLE, MAGRETA, JR. <small>(Signature)</small> _____ <small>(Name)</small>	SHEET NO.: E-6
	PROJ. SEC. No.: _____ FFR No.: _____ Phase: _____	APPROVED BY: MERIAN P. CATALAY-MANUELA, D. CENSE. <small>(Signature)</small> _____ <small>(Name)</small>	LOCATION: ESP-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	REVISIONS:



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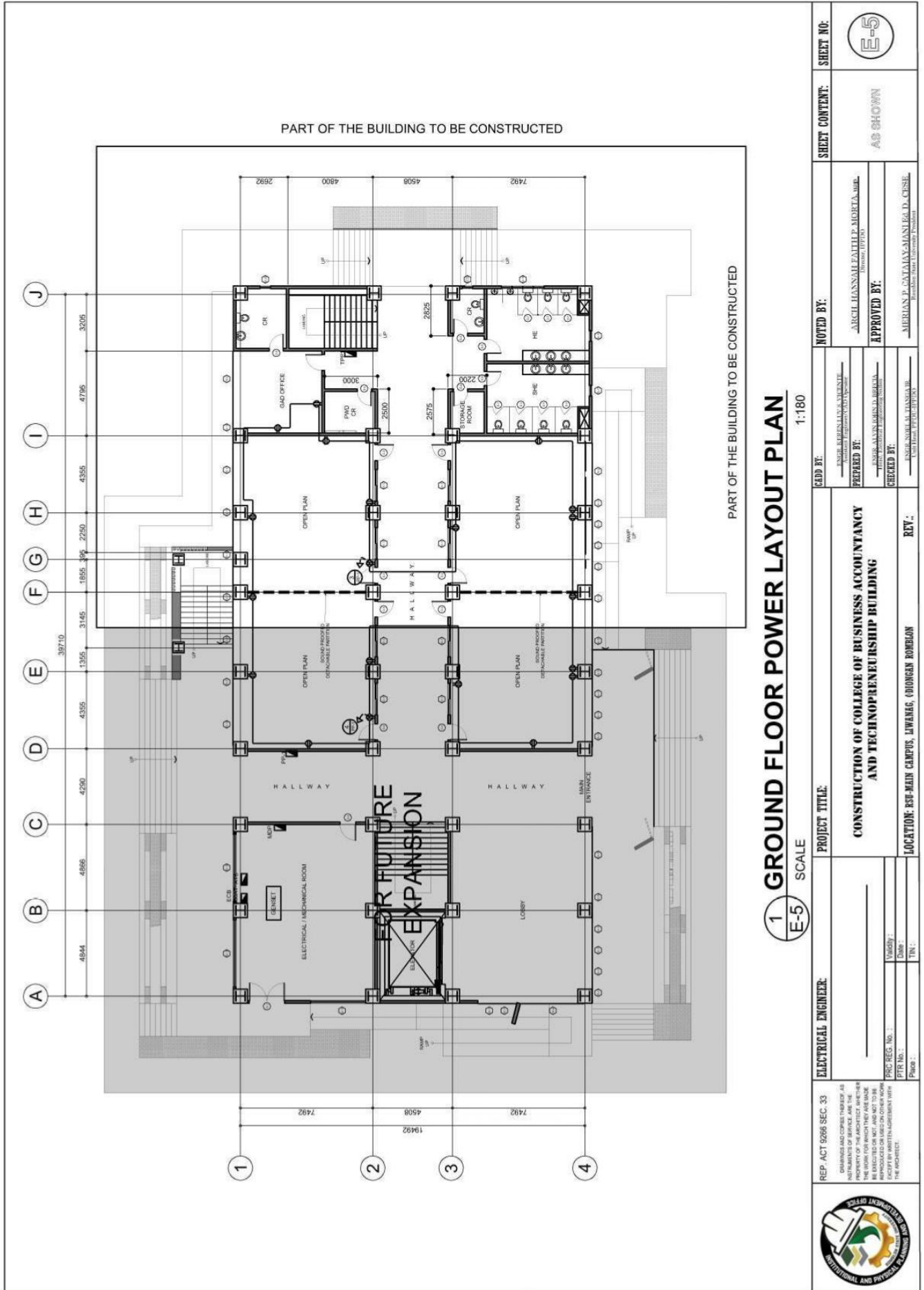
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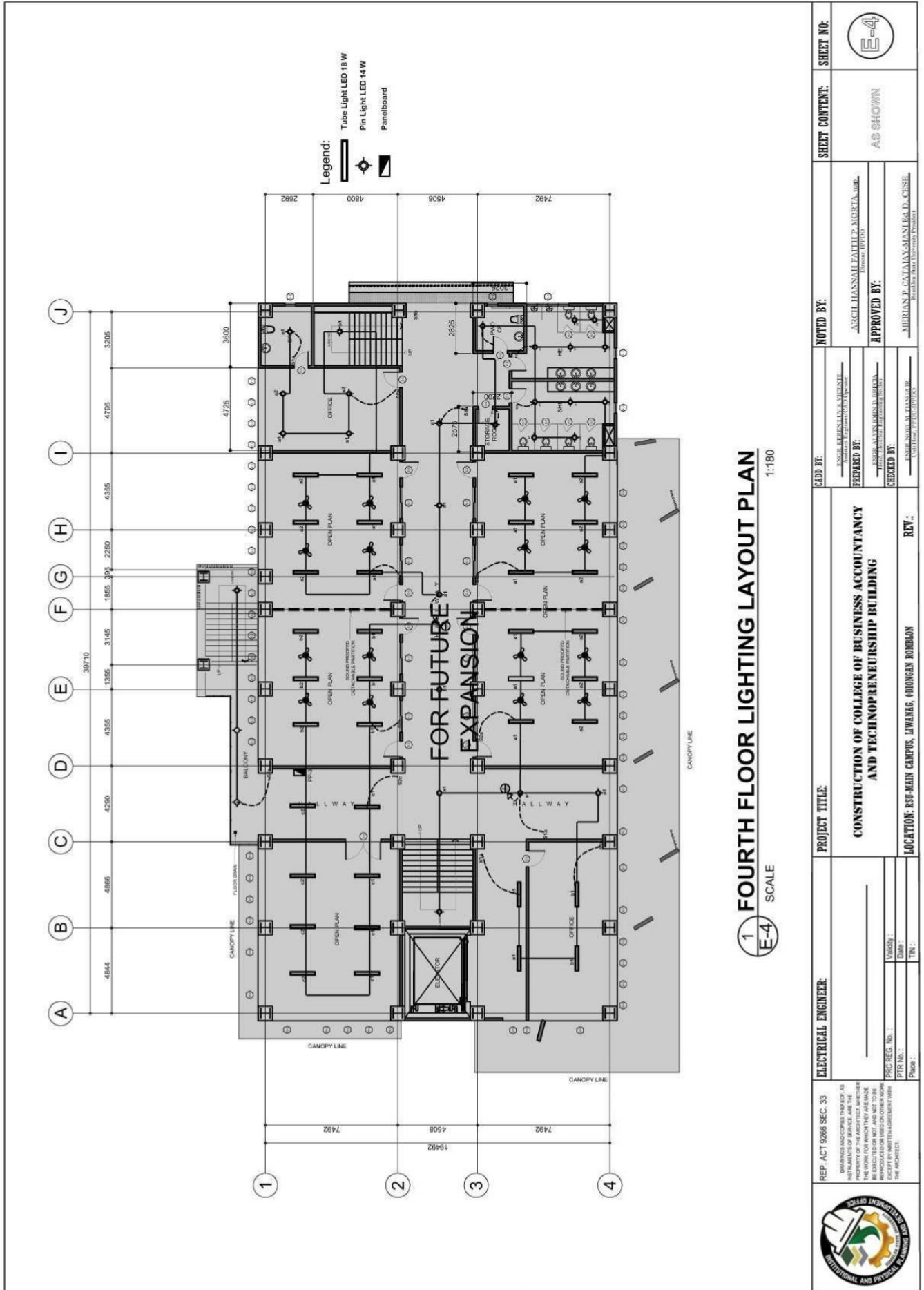
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1 FOURTH FLOOR LIGHTING LAYOUT PLAN
 SCALE 1:180

REP. ACT 5206 SEC. 33 ENGINEER AND ARCHITECT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND DATA FURNISHED TO THE ARCHITECT AND THE PROPERTY OF THE ARCHITECT. WHEREBY THE WORK FOR WHICH THEY ARE MADE IS REPRODUCED OR USED IN OTHER WORK WITHOUT THE WRITTEN AGREEMENT WITH THE ARCHITECT.	ELECTRICAL ENGINEER: _____ PRC REG. No. : _____ PPR No. : _____ Place : _____	PROJECT TITLE:	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPEANERSHIP BUILDING	NOTED BY:	ARCH. HANNALEITH P. MOJETA, AIA, RUPAM, IITPD	SHEET CONTENT:	AS SHOWN	SHEET NO.:	E-4
		PREPARED BY: ENGR. LUIS M. B. BUELA CHECKED BY: ENGR. NORA L. BANGA, RUPAM, IITPD	APPROVED BY: MERIAN P. CATAJAY, MANILA, D. CUSE, Romblon State University President	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPEANERSHIP BUILDING	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	REV.:			



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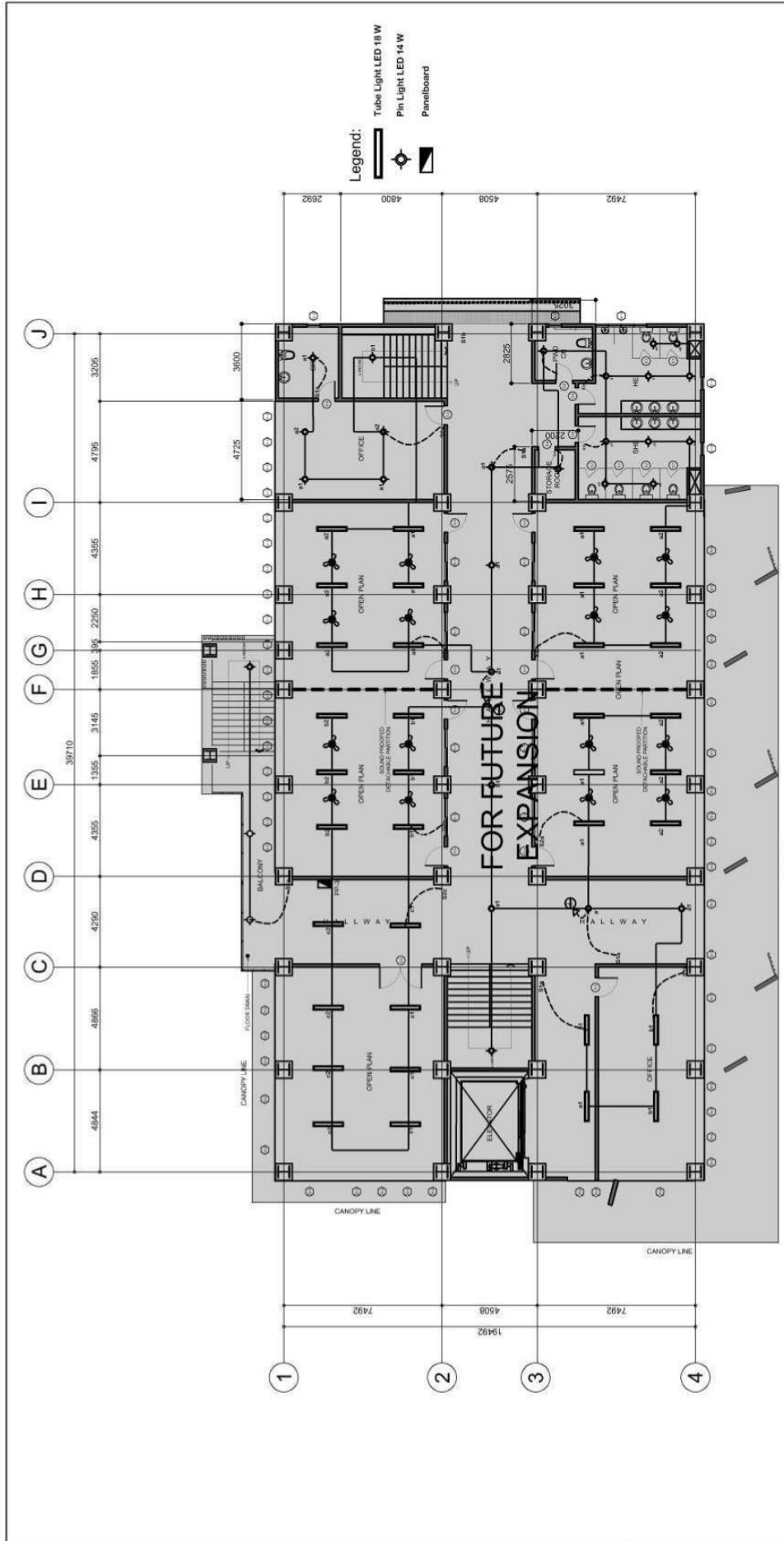
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1 THIRD FLOOR LIGHTING LAYOUT PLAN
 E-3 SCALE 1:180

REP. ACT 9266 SEC. 33 <small>DESIGNS AND CONSTRUCTION OF ALL BUILDINGS AND STRUCTURES SHALL BE THE PROPERTY OF THE ARCHITECT AND SHALL BE ERECTED OR NOT, AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT.</small>	ELECTRICAL ENGINEER: _____ VIGNOY: _____ DATE: _____ PPR No.: _____ Place: _____	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOENTREURSHIP BUILDING	NOTED BY: _____ APPROVED BY: _____ _____ <small>Member of the University President</small>	SHEET CONTENT: AS SHOWN	SHEET NO.:
	ADD BY: _____ PREPARED BY: _____ CHECKED BY: _____ <small>Member of the University President</small>	REVISION: _____ REV.: _____	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	APPROVED BY: _____ <small>Member of the University President</small>	SHEET CONTENT: AS SHOWN



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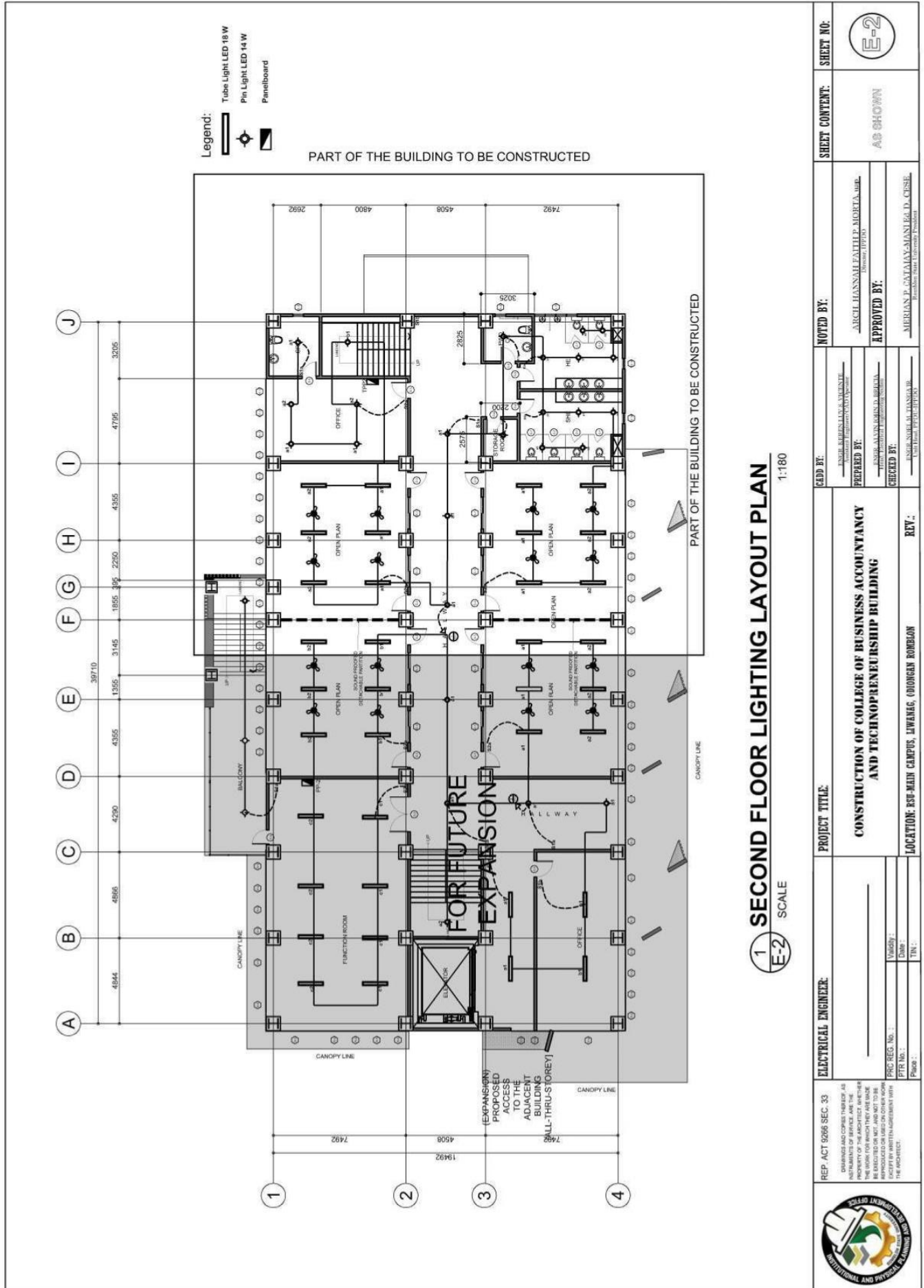
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REPUBLIC ACT 6965 SEC. 33 <small>DRAWINGS AND COPIES THEREOF, AS WELL AS THE INSTRUMENTS OF SERVICE, ARE THE PROPERTY OF THE ARCHITECT. THEY ARE TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.</small>	ELECTRICAL ENGINEER: PRC REG. No.: PTR No.: Firm:	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOREURSHIP BUILDING LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	NOTED BY: AIRCEL MANSANAL/FAITH P. MORETA, AIA, IBC <small>Illustration: ILLUSTRATION</small> APPROVED BY: MERIAN L. CATAYAY-MAN/LEG. D. CUSIL <small>Assistant State University President</small>	SHEET CONTENT: AS SHOWN	SHEET NO.: E-2



ROMBLON STATE UNIVERSITY

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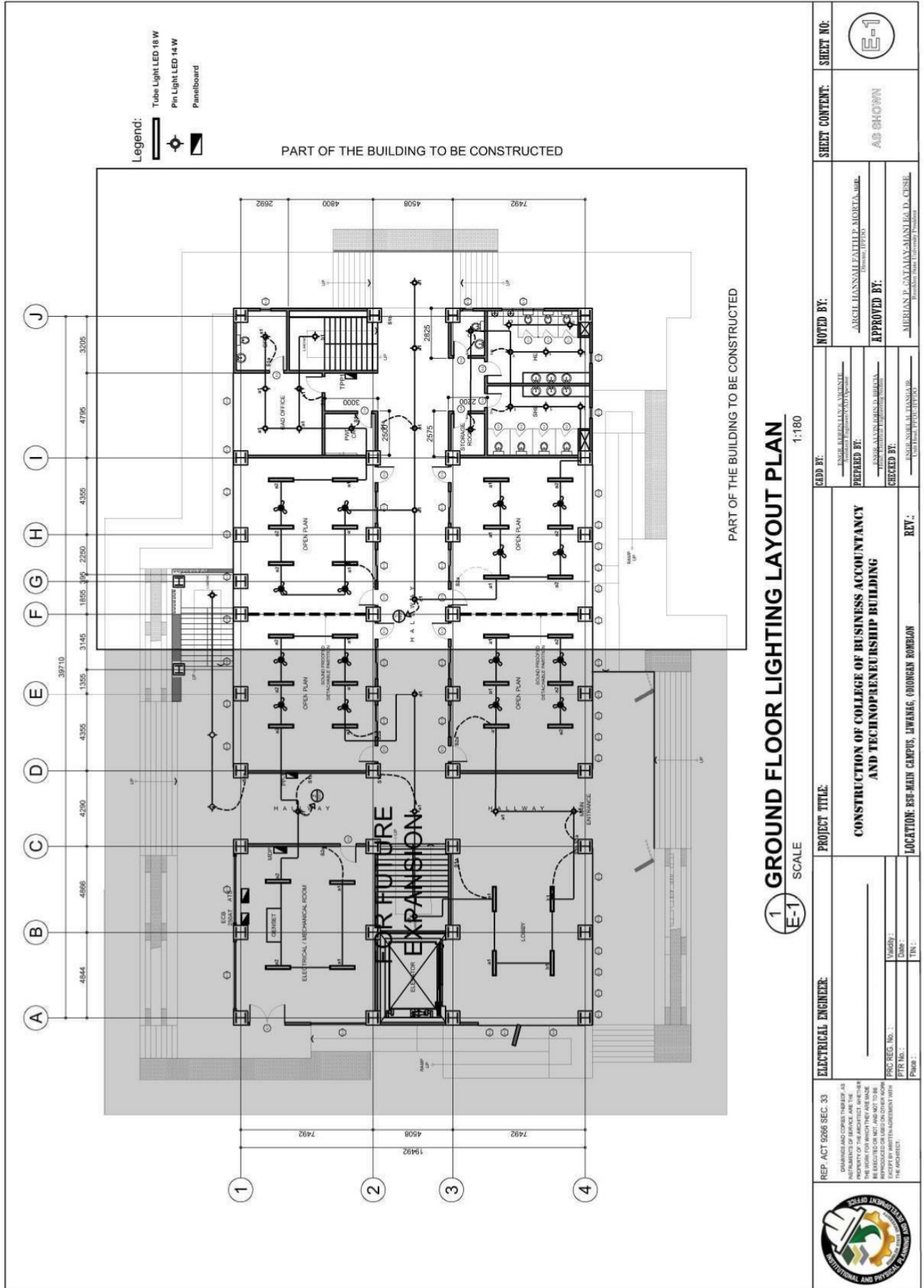
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1
E-1
GROUND FLOOR LIGHTING LAYOUT PLAN
 SCALE 1:180

REP. ACT 9266 SEC. 33 DRAWINGS AND COPIES THEREOF AS PREPARED BY THE ARCHITECT OR HIS PROPERTY OF THE ARCHITECT, WHETHER THE WORK FOR WHICH THEY ARE MADE BE SELECTED OR NOT, AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN AGREEMENT WITH THE ARCHITECT.	ELECTRICAL ENGINEER _____ NAME: _____ TITLE: _____ FLOOR: _____	PROJECT TITLE CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	NOTED BY: _____ NAME: _____ TITLE: _____ FLOOR: _____	SHEET CONTENT: AS SHOWN	SHEET NO: E-1
		LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	PREPARED BY: _____ NAME: _____ TITLE: _____ FLOOR: _____	APPROVED BY: _____ NAME: MIRIAM D. SUSTANANGAN, Ph.D., CUSE TITLE: Assistant Vice-Chancellor (Academic)	CHECKED BY: _____ NAME: _____ TITLE: _____ FLOOR: _____

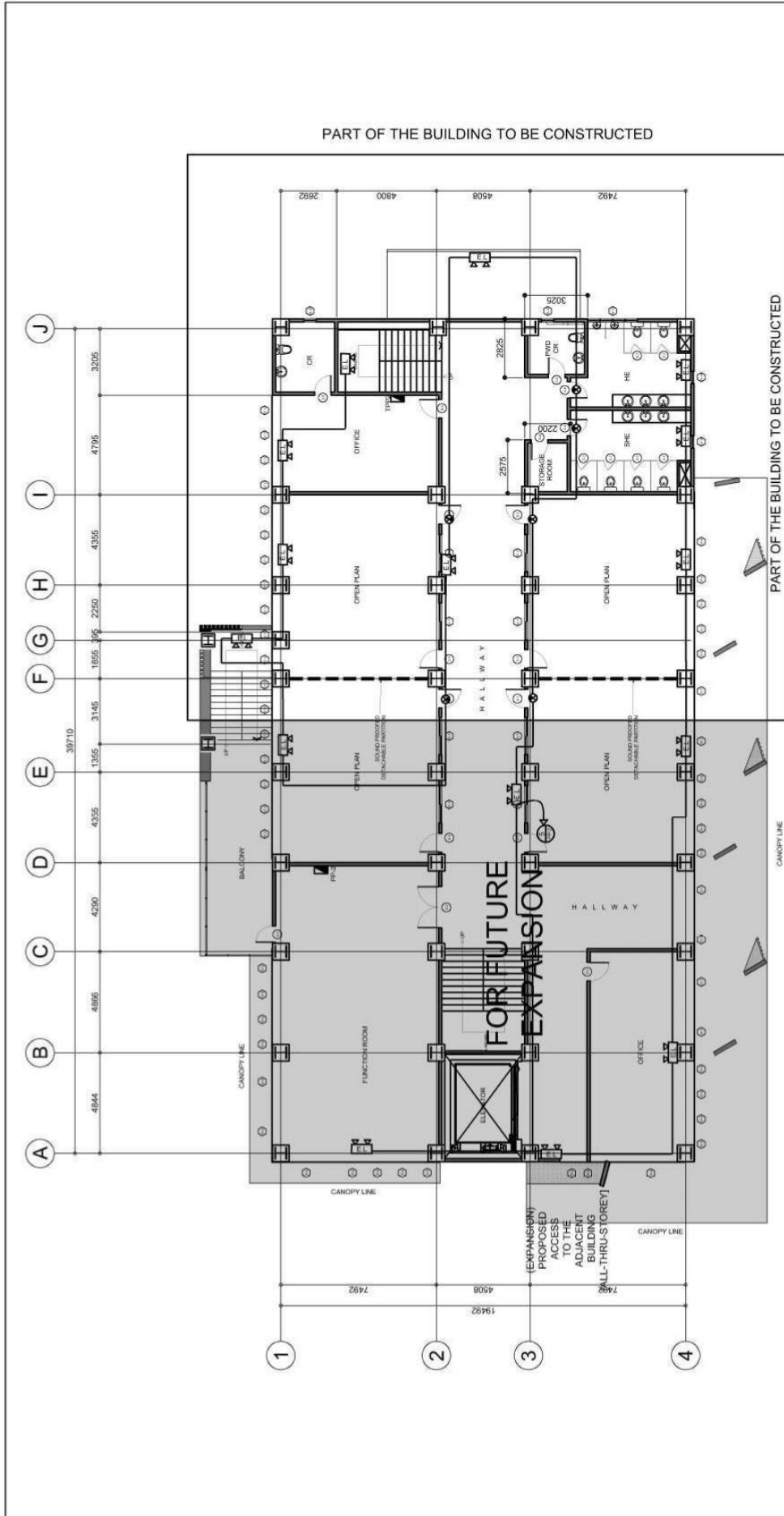


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1 SECOND FLOOR EMERGENCY/ EXIT LIGHT LAYOUT PLAN
 SCALE 1:180

REP. ACT 9266 SEC. 33 <small>DESIGNED AND CONSTRUCTED BY THE ARCHITECT AND ENGINEER, ALL RIGHTS RESERVED. THE ARCHITECT AND ENGINEER SHALL BE LIABLE FOR ANY DAMAGE OR INJURY TO PERSONS OR PROPERTY OF THE ARCHITECT AND ENGINEER. THE WORK FOR WHICH THEY ARE HIRE SHALL BE EXECUTED OR NOT, AND NOT TO BE SUBJECT TO ANY CHANGE IN SCOPE OR FACILITY BY WRITTEN AGREEMENT WITH THE ARCHITECT.</small>	ELECTRICAL ENGINEER: PRG. REG. No. : PPR No. : Place :	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNO-NEURSHIP BUILDING LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	ADD BY: ENGR. ADELIN B. ARSENTE <small>Assistant Engineering Manager</small>	NOTED BY: ARCH. LISSA MAE LATHIP, MGR. LIA. MALLA <small>Owner (DPPE)</small>	SHEET CONTENT: AS SHOWN	SHEET NO.: E-10
			PREPARED BY: ARCHITECT/ANALYST/ADMIN. LIA. MALLA <small>Architectural Engineer</small>	APPROVED BY: MERLIAN P. CATAKAYAN, M.Sc., D. CUSEL <small>Assistant Dean (University President)</small>	CHECKED BY: ENGR. ADELIN B. ARSENTE <small>Assistant Engineering Manager</small>	REV.:



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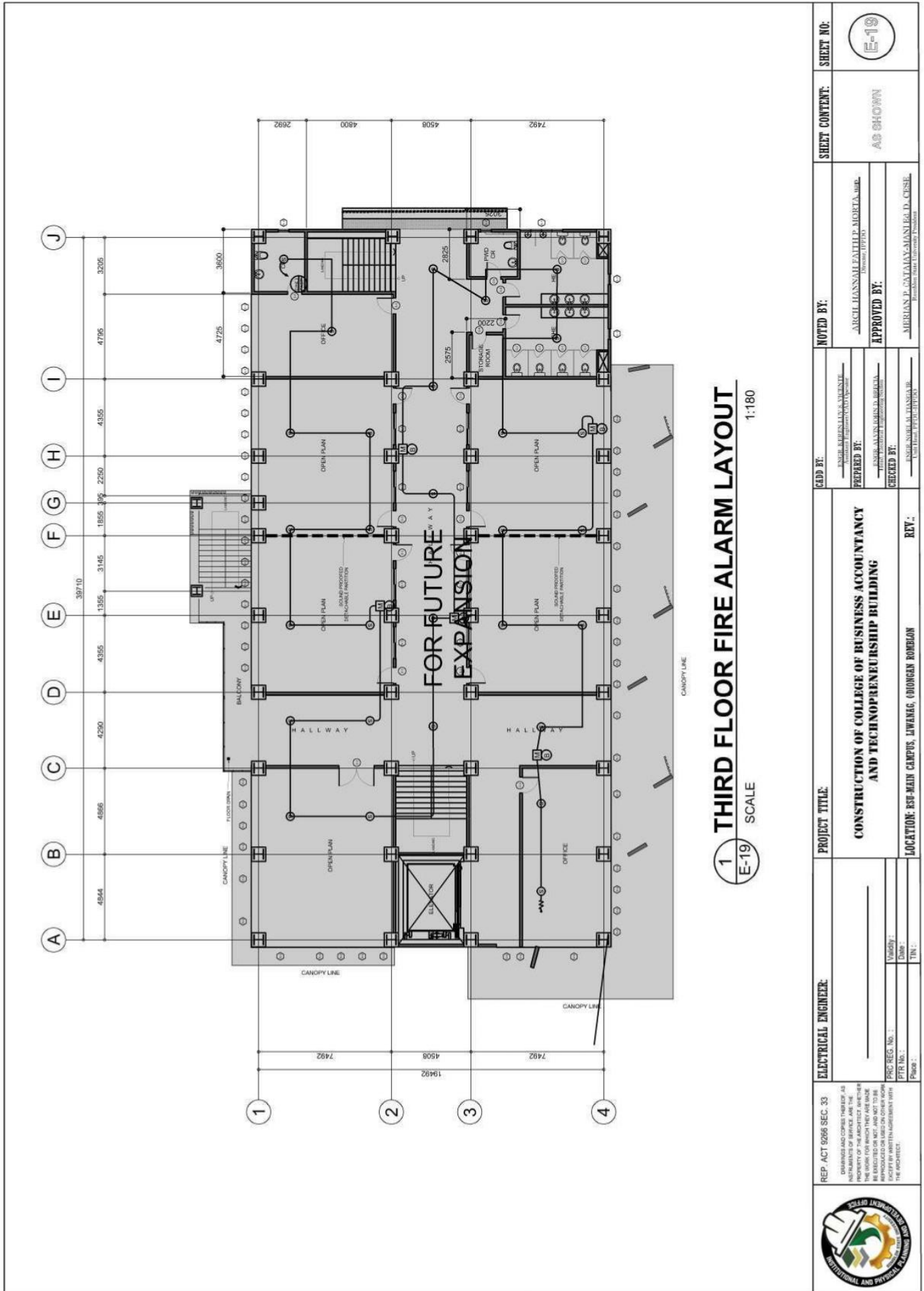
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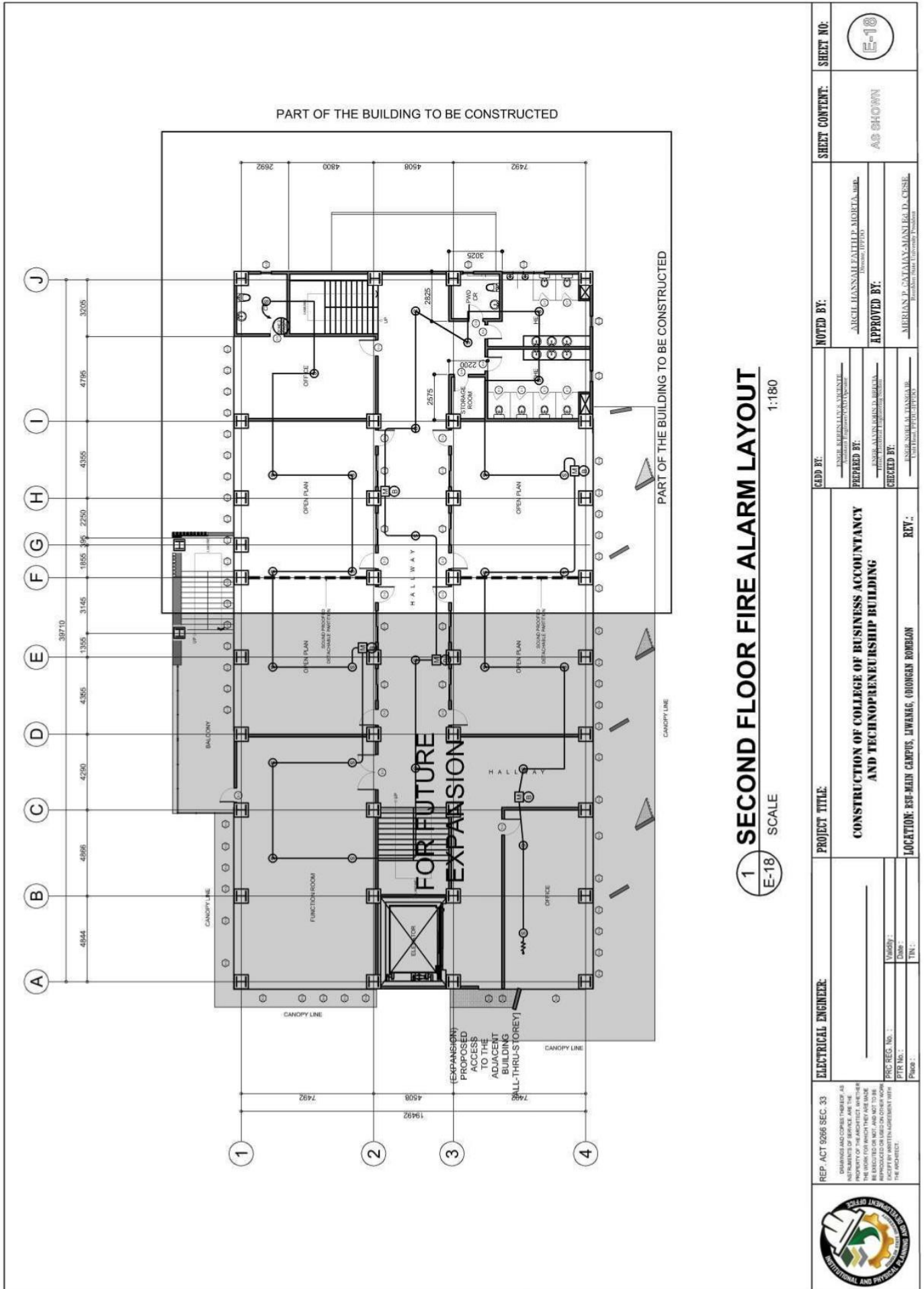
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1 SECOND FLOOR FIRE ALARM LAYOUT
 SCALE 1:180

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	<p>PRC REG. No.: _____ PTR No.: _____ Place: _____</p>	<p>REV.:</p> <p>_____ (Signature) Date: _____ TN: _____</p>	<p>LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON</p>	<p>APPROVED BY:</p> <p>ALICIL LIANANAH FAHILDA MORTA, MHR. (Signature) Date: _____</p>	<p>APPROVED BY:</p> <p>ALICIL LIANANAH FAHILDA MORTA, MHR. (Signature) Date: _____</p>	<p>APPROVED BY:</p> <p>ALICIL LIANANAH FAHILDA MORTA, MHR. (Signature) Date: _____</p>



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1 GROUND FLOOR FIRE ALARM LAYOUT
SCALE 1:180

ELECTRICAL ENGINEER:		PROJECT TITLE:	NOTED BY:	SHEET CONTENT:	SHEET NO.:
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			<small>APPROVED BY:</small> <small>APPROVED BY:</small>		
			<small>REVISIONS:</small> <small>REVISIONS:</small>		
			<small>REVISIONS:</small> <small>REVISIONS:</small>		



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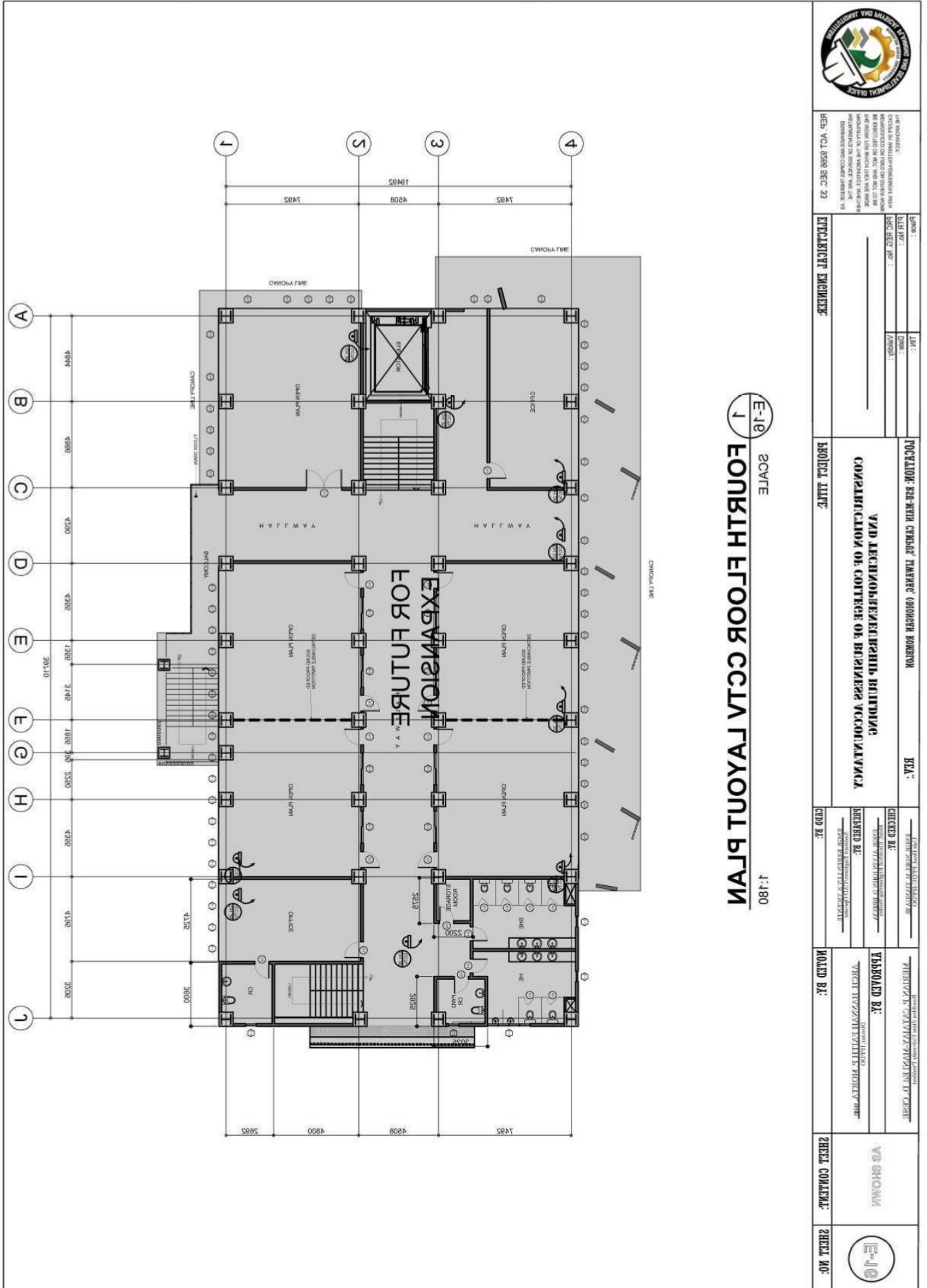
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E-10
1
FOURTH FLOOR SCAFF LAYOUT PLAN
 SCALE 1:180



REP. VOL. 8098 SEC. 33

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOMMODATION

PROJECT TITLE:
CONSTRUCTION OF COLLEGE OF BUSINESS ACCOMMODATION

DESIGNED BY:
 CHECKED BY:
 APPROVED BY:

ISSUED BY:
 SHEET CONTENT:

SHEET NO.:





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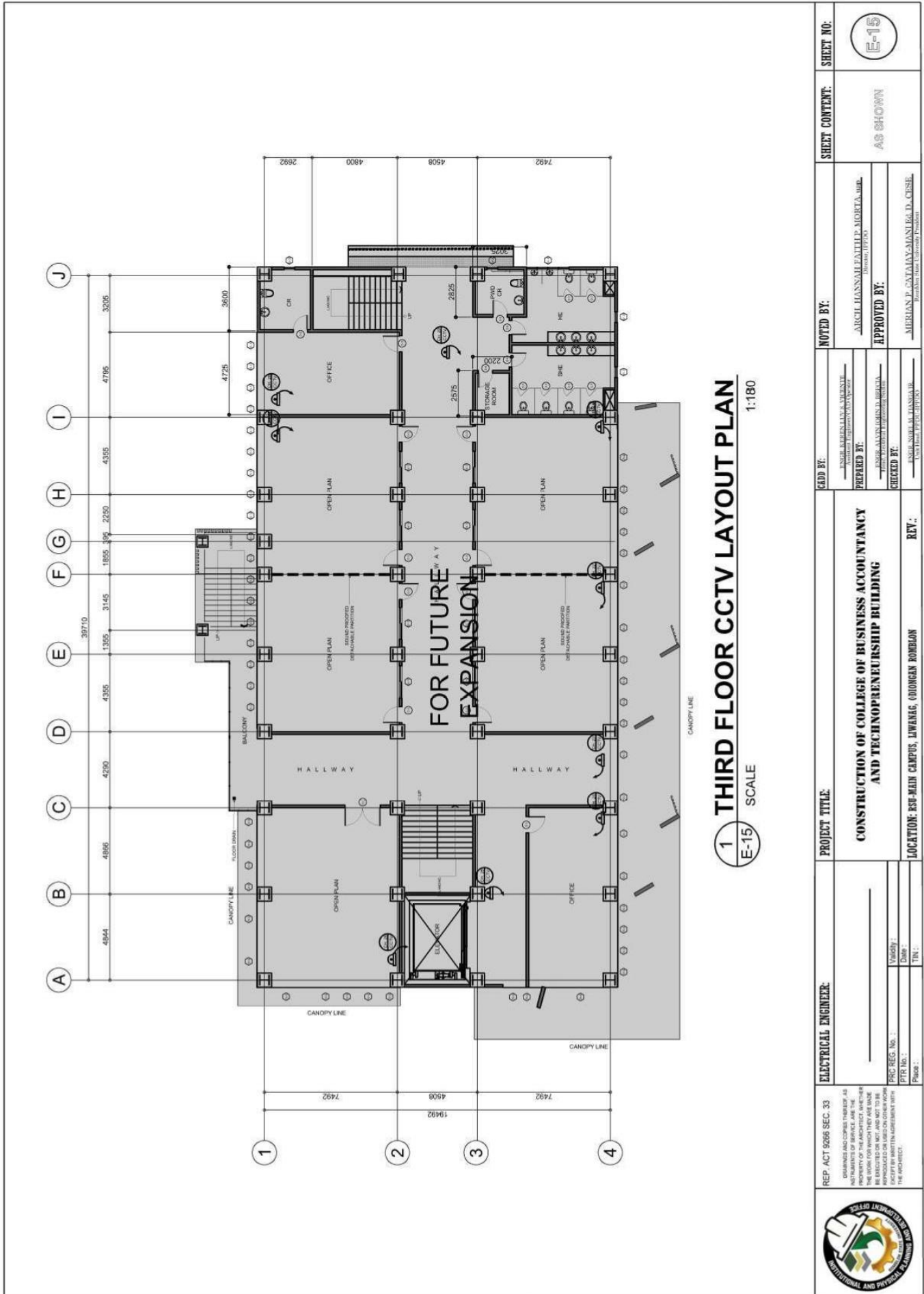
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LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON		REV.:	REVISIONS:	DATE:	BY:



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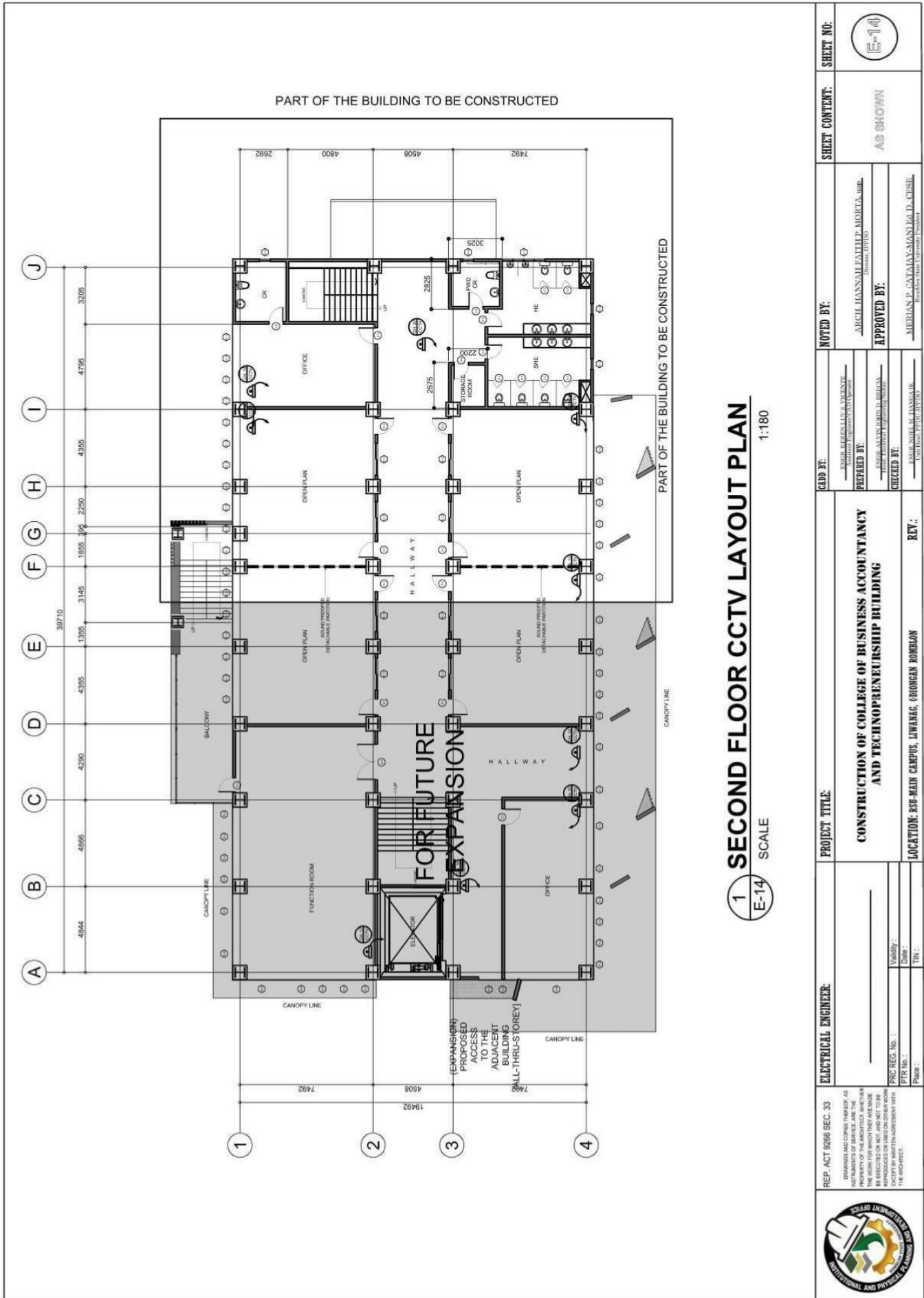
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1 SECOND FLOOR CCTV LAYOUT PLAN
 SCALE 1:180
 E-14

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		PREPARED BY: _____ <small>ARCIL HANNAH FAHLEP. MACRETA, JR.</small> (LICENSED ELECTRICAL ENGINEER)	
REG. REG. NO. : _____ PTR. NO. : _____ PHONE : _____	REV.: _____	APPROVED BY: _____ <small>MERIAN P. CATARA-MANUEL, D., CESL</small> <small>Professor, Romblon University President</small>	SHEET CONTENT: AS SHOWN



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1

GROUND FLOOR CCTV LAYOUT PLAN

SCALE 1:180

PROJECT TITLE:	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING
PROJECT ENGINEER:	_____
NOTED BY:	ARCEL HANNAN FAHLEP ALBERTA, JR. Director, IPDPO
APPROVED BY:	MERIAN P. CATALAN-MANI Ed.D., CISEL President, University President
REVISIONS:	REV. _____

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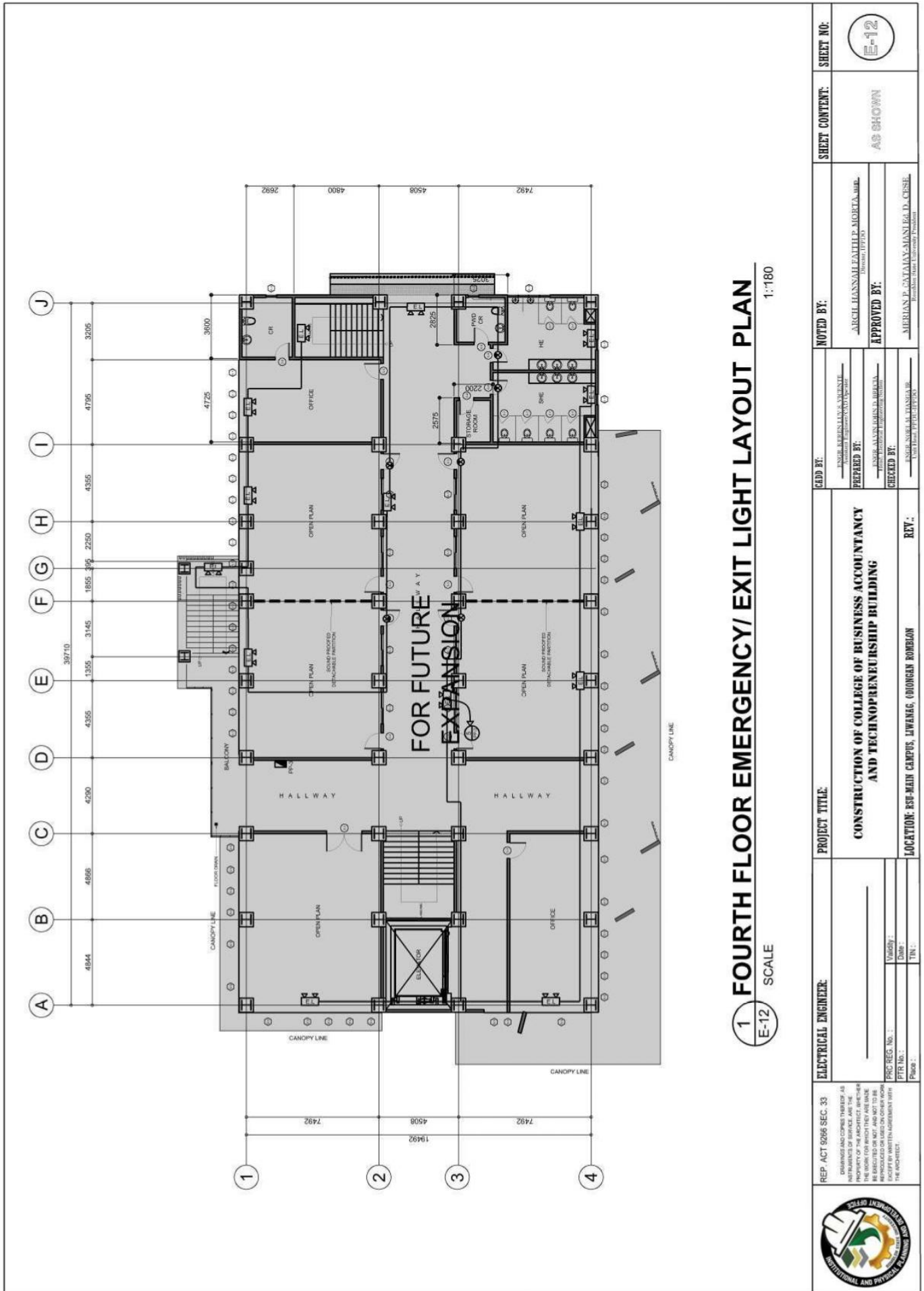
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1 FOURTH FLOOR EMERGENCY/ EXIT LIGHT LAYOUT PLAN
E-12 SCALE 1:180

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	PREPARED BY: _____ (Signature) _____ (Name)	APPROVED BY: _____ (Signature) _____ (Name)	LOCATION: ESP-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	REVISIONS: _____ (Signature) _____ (Name)	REVISIONS: _____ (Signature) _____ (Name)



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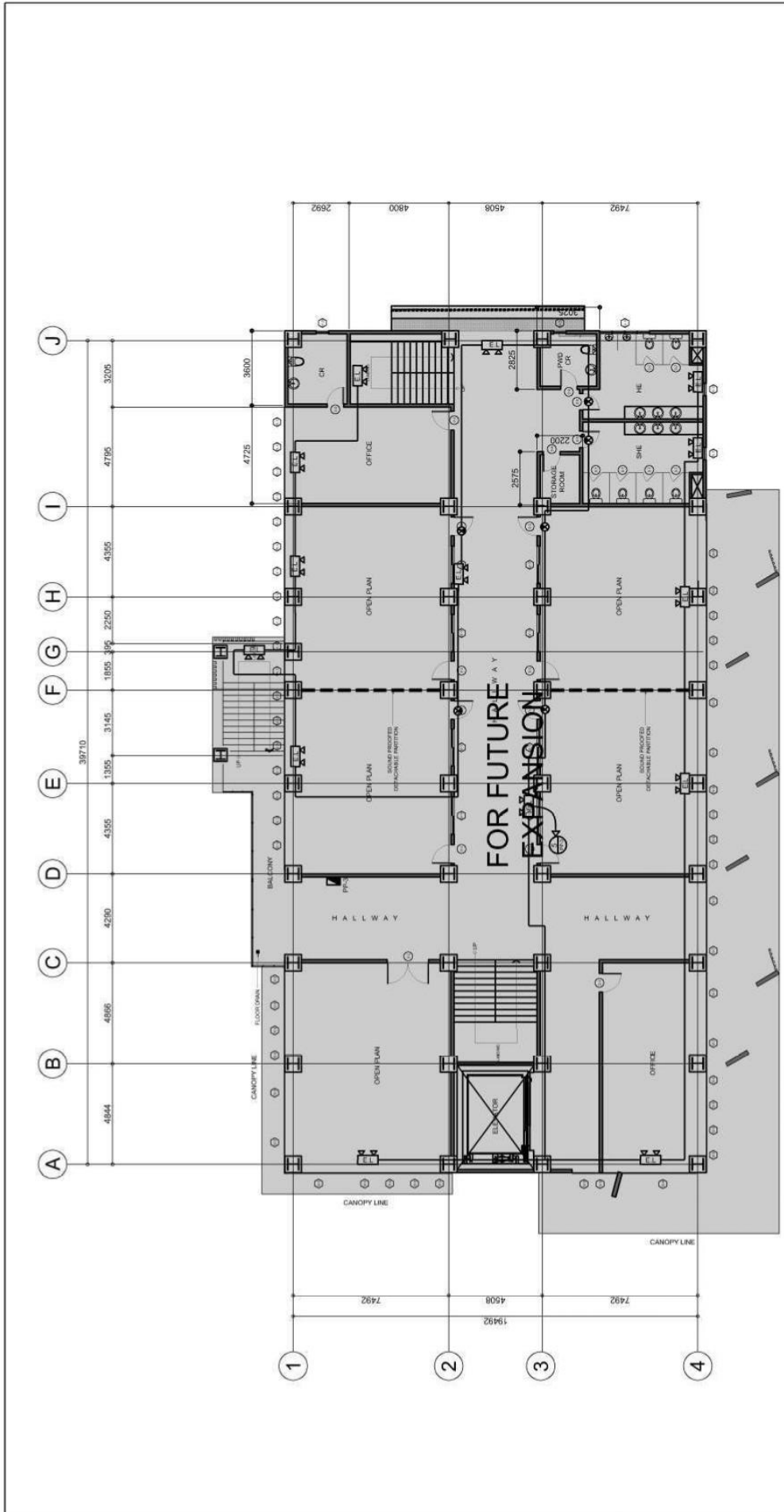
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1 THIRD FLOOR EMERGENCY/ EXIT LIGHT LAYOUT PLAN
E-11 SCALE 1:180

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	PREPARED BY: _____ (Signature) CHECKED BY: _____ (Signature)		LOCATION: RSP-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON		REV.: _____ (Signature)		APPROVED BY: _____ (Signature) _____ (Signature)		APPROVED BY: _____ (Signature)	





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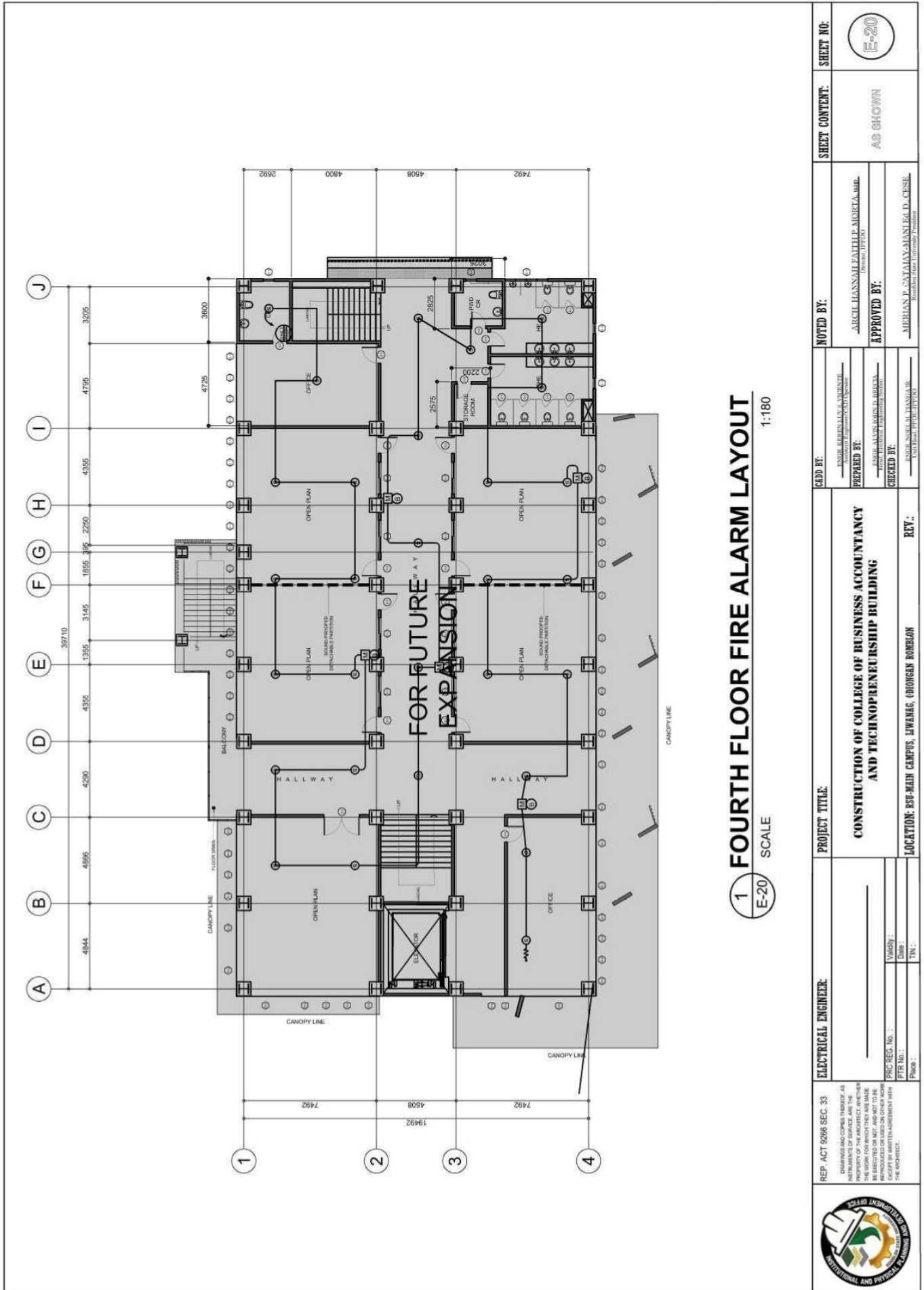
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1 FOURTH FLOOR FIRE ALARM LAYOUT
 SCALE 1:180

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	PREPARED BY: _____ Architect/Engineer/Designer	APPROVED BY: _____ Director, UPD/UP	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	APPROVED BY: _____ Director, UPD/UP	REVISIONS: _____





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Romblon State University PANEL BOARD SCHEDULE

PROJECT: CBAT
 DESIGNATION: BUS BAR GUTTER
 SYSTEM: 230V, 1Ø, 60Hz
 MIN. I.C.:
 PREPARED BY: AJB
 ENCLOSURE: NEMA 12
 MOUNTING: WALL MOUNTED
 FEED IN:
 OUT:

Load Description	LOAD		CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS
	VA	A	AT	AF	P	TYPE	SIZE (mm ² x Core)	GND	SIZE (mm Ø)	TYPE	
1 TPP1	12722	55.28	100	100	2	THHN	22 x 2	8.0	25	PVC	
2 TPP2	12926	56.17	100	100	2	THHN	22 x 2	8.0	25	PVC	
TOTAL	25,648.00	111.45									

Ic = 111.45A
If = 111.45 x 1.25
Icb = 111.45 x 1.25
Total KVA:
 @ 80% Transformer Loading Limit:

Emergency Breaker : 150 AT. 150 AF. 2 P. 230 V
 Feeder : THHN 60mm² x 2, +E14.0 VIA PVC
 Calculation :
 USE: 150AF bus terminal

USE: 1-37.5kVA, 7.6kV/230V, 60Hz single phase pole mounted transformer

	REF. ACT 6088 SEC. 33 ENGINEERS AND COVER THEREOF, AS MEMBERS OF SERVICE, ARE THE ONLY PERSONS WHO MAY BE ISSUED OR NOT, AND NOT TO BE EXERCISED IN ANY MANNER WITHOUT THE APPROVEMENT OF THE ARCHITECT.	PROJECT TITLE CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	NOTED BY: ARCH. HANNAH FAITH P. MORTA, RUP. Date: _____ Place: _____	SHEET CONTENT: AS SHOWN	SHEET NO.: E-28
	ELECTRICAL ENGINEER Valdez: _____ Date: _____ TIN: _____ PPR No.: _____ Place: _____	PREPARED BY: MERLIAN P. CASALAN, RUP. Date: _____ Place: _____	APPROVED BY: MERLIAN P. CASALAN, RUP. Date: _____ Place: _____	REV.:	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON



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Romblon State University PANEL BOARD SCHEDULE

PROJECT: CBAT
DESIGNATION: TPP2
SYSTEM: 230V, 1Ø, 60Hz
MIN. I.C.: _____

PREPARED BY: AJB
ENCLOSURE: NEMA 12
MOUNTING: PAD MOUNTED
FEED IN: _____
OUT: _____

Load Description	LOAD		CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS
	VA	A	AT	AF	P	TYPE	SIZE (mm ² x Qty.)	GND	SIZE (mm Ø)	TYPE	
1 Lightings	524	2.28	20	50	2	THHN	2.0 x 2	2.0	15	PVC	
2 C.O. x 9	1620	7.04	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
3 Emergency Lights	60	0.26	20	50	2	THHN	2.0 x 2	2.0	15	PVC	
4 ACU 1.5hp	1398	6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC	
5 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
6 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
7 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
8 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
TOTAL	12,926.00	56.17									

Ic = 56.17A **Main Breaker** : 100 AT, 100 AF, 1 P, 230 V
If 56.17 x 1.25 **Feeder** : THHN 22mm² x 2, +E8.0 VIA PVC
Icb 56.17 x 1.25 + 2.5*10.13 **Calculation** :

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	PREPARED BY: _____ <small>PREPARED BY:</small> _____ <small>CHECKED BY:</small> _____ <small>APPROVED BY:</small> _____	APPROVED BY: _____ <small>APPROVED BY:</small> _____	REVISIONS: _____ <small>REVISIONS:</small> _____	REVISIONS: _____ <small>REVISIONS:</small> _____	REVISIONS: _____ <small>REVISIONS:</small> _____	REVISIONS: _____ <small>REVISIONS:</small> _____



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: TPPI
SYSTEM: 230V, 1Ø, 60Hz
MIN. I.C.: _____

PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED IN : _____
OUT : _____

Load Description	LOAD		CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS
	VA	A	AT	AF	P	TYPE	SIZE (mm ² x GND)	SIZE (mm Ø)	TYPE	LENGTH (m)	
1 Lightings	500	2.17	20	50	2	THHN	2.0 x 2	2.0	15	PVC	
2 C.O. x 8	1440	6.26	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
3 Emergency Lights	60	0.26	20	50	2	THHN	2.0 x 2	2.0	15	PVC	
4 ACU 1.5hp	1398	6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC	
5 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
6 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
7 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
8 ACU 2.5hp (future)	2331	10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
TOTAL	12,722.00	55.28									

Ic = 55.28A **Main Breaker** : 100 AT, 100 AF, 1 P, 230 V
If 55.28 x 1.25 **Feeder** : THHN 22mm² x 2, +E8.0 VIA PVC
Icb 55.28 x 1.25 + 2.5*10.13 **Calculation** :

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	LOCATION: ESP-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	REV.: _____	CLIENT: NAME: _____ TITLE: _____ PREPARED BY: NAME: _____ TITLE: _____ CHECKED BY: NAME: _____ TITLE: _____	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNORENUERSHIP BUILDING	NOTED BY: NAME: _____ TITLE: _____ APPROVED BY: NAME: _____ TITLE: _____	SHEET CONTENT: AS SHOWN



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
 DESIGNATION : MDP (future)
 SYSTEM : 400V, 3Ø, 60HZ
 MIN. I.C. :
 PREPARED BY: AJB
 ENCLOSURE : NEMA 12
 MOUNTING : PAD MOUNTED
 FEED IN :
 OUT :

Load Description	LOAD			AMPERES			CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS
	Total (VA)	3Ø	O/AN	O/AN	OBN	OCN	AT	AF	P	TYPE	SIZE (mm ² x Dia.)	GND	SIZE (mm Ø)	TYPE	
1 PP1	30,233.00	0	43.07	43.03	43.03	45.25	100	110	3	THHN	22 x 4	8.0	15	PVC	
2 PP2	33,662.00	0	50.99	47.05	50.56	50.56	100	110	3	THHN	22 x 4	8.0	15	PVC	
3 PP3	37,424.00	0	58.89	50.8	52.87	52.87	100	110	3	THHN	22 x 4	8.0	15	PVC	
5 PP4	38,394.00	0	58.94	51.28	56.77	56.77	100	110	3	THHN	22 x 4	8.0	15	PVC	
6 Elevator	20,000.00	28.86					60	60	3	THHN	8.0 x 4	3.5	15	PVC	
7 Fire Pump (jockey)	1865						30	30	1	THHN	3.5 x 2	2.0	15	PVC	
8 water pump	2500						30	30	1	THHN	3.5 x 2	2.0	15	PVC	
9 Spare	1500					6.52	30	30	3	THHN	3.5 x 2	2.0	15	PVC	
10 Spare							30	30	3	THHN					
TOTAL	165,578.00	28.86	211.89	211.13	211.13	211.97									

Ic = 28.86+(211.97) = 240.83 A
 @ 80% DF = 240.83*0.8 = 192.66 A
 If (192.66-58.94)+(1.25*58.94) = 207.39 A
 Icb (192.66-58.94)+100 = 233.72 A
 total kVA: = 165.57 kVA
 @ 80% Demand Factor: = 132.45 kVA
 @ 80% TR Loading Limit: = 165.57 kVA
 @ 70% Genset Loading Limit: = 236.52 kVA
 USE: 200kVA, 13.2KV/400V 3 phase with neutral, Pad mounted cabinet type oil immersed transformer
 250kVA, 400V/230V,3 phase, 60Hz, Silent Type Diesel Generator
 Main Breaker : 250 AT, 250 AF, 3 P, 400 V
 Feeder : THHN 1-125mm² x 3, + N125mm² + E22mm² VIA PVC Conduit
 Calculation :
 USE: 250AF Neutral Bus Terminal

	REP. ACT 6986 SEC. 33 <small>REGISTERED PROFESSIONAL ENGINEER AND ARCHITECT UNDER THE AUTHORITY OF THE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS, A DIVISION OF THE DEPARTMENT OF EDUCATION, INC. ALL RIGHTS RESERVED. THIS DOCUMENT IS UNCLASSIFIED AND NOT TO BE REPRODUCED OR USED IN OTHER WORKS WITHOUT THE WRITTEN PERMISSION OF THE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS.</small>	ELECTRICAL ENGINEER	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	NOTED BY: ARCEL HANNAN FALTERA MOSTER, LALAP Engr. (EPEAC)	SHEET CONTENT: AS SHOWN	SHEET NO.: E-25
	PROJ. NO.: DATE: PRICE:	REVISIONS: NO.: DATE: PRICE:	CHECKED BY: REVEREND. FREDERICK B. BACAL Engr. (EPEAC)	APPROVED BY: MERIAN P. CATAHAN-MANUEL, D. CESE Engr. (EPEAC)	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN, ROMBLON	REV.:



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
 DESIGNATION: PP4 (future)
 SYSTEM: 400V, 3Ø, 60HZ
 MIN. I.C.: _____

PREPARED BY: AJB
 ENCLOSURE: NEMA 12
 MOUNTING: PAD MOUNTED
 FEED IN: _____
 OUT: _____

Load Description	LOAD			CKT. PROTECTION			CONDUCTOR			RACEWAY			REMARKS
	VA	AMPERES		AT	AF	P	TYPE	SIZE (mm ² x Obs.)	GND	SIZE (mm)	TYPE	LENGTH (m)	
		3Ø	ØAN										
1 Lightings	510		2.22	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2 Lightings	516		2.4	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3 C.O. x 8	1440			6.3	30	1	THHN	3.5 x 2	2.0	15	PVC		
4 C.O. x 15	2700			11.7	30	1	THHN	3.5 x 2	2.0	15	PVC		
5 Emergency Lights	60		0.26	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
6 ACU 2.0hp	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
7 ACU 2.0hp	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8 ACU 2.0hp	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9 ACU 2.0hp	1865	8.1		8.1	20	1	THHN	3.5 x 2	2.0	15	PVC		
10 ACU 1.5hp	1398			8.1	20	1	THHN	3.5 x 2	2.0	15	PVC		
11 ACU 2.5hp	2331	10.13		6.07	20	1	THHN	3.5 x 2	2.0	15	PVC		
12 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16 ACU 2.5hp	2331	10.13		10.13	30	1	THHN	3.5 x 2	2.0	15	PVC		
17 ACU 2.5hp	2331	10.13		10.13	30	1	THHN	3.5 x 2	2.0	15	PVC		
18 ACU 2.5hp	2331	10.13		10.13	30	1	THHN	3.5 x 2	2.0	15	PVC		
19 ACU 2.5hp	2331	10.13		10.13	30	1	THHN	3.5 x 2	2.0	15	PVC		
20 ACU 2.5hp	2331	10.13		10.13	30	1	THHN	3.5 x 2	2.0	15	PVC		
11 Spare	1000			4.34	30	1	THHN	3.5 x 2	2.0	15	PVC		
12 Space					50	1							
TOTAL	38,394.00	58.94	51.28	56.77									

Ic 0+(58.94) = 58.94 A
 @ 80% DF = 47.15 A
If (47.15-10.13)+(1.25*10.13) = 49.68 A
Icb (47.15-10.13)+30 = 67.02 A

Main Breaker : 100 AT, 100 AF, 3 P, 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation :
USE: 100AF Neutral Bus

	REP. ACT 6208 SEC. 33 <small>DRAWINGS AND CONSTRUCTION OF THE FACILITY ARE THE PROPERTY OF THE ARCHITECT. WHEN REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT, THE ARCHITECT WILL BE RESPONSIBLE FOR ANY AND ALL DAMAGES AND LOSSES INCURRED BY THE REPRODUCER.</small>	ELECTRICAL ENGINEER _____ <small>Verify: _____ Date: _____ TIN: _____</small>	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	NOTED BY: _____ APPROVED BY: _____ <small>Merlan P. Catausan, Ed.D., CESE Romblon State University President</small>	SHEET CONTENT: AS SHOWN	SHEET NO.:
	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	REV.:	CALL BY: _____ PREPARED BY: _____ CHECKED BY: _____	REVISIONS: _____ DESIGNED BY: _____ APPROVED BY: _____	NOTED BY: _____ APPROVED BY: _____	SHEET CONTENT: AS SHOWN



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION : PP3 (future)
SYSTEM : 400V, 3Ø, 60HZ
MIN. I.C. : _____

PREPARED BY : AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED IN : _____
OUT : _____

Load Description	LOAD			CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS	
	VA	AMPERES		AT	AF	P	TYPE	SIZE (mm ² x Ω)	GND	SIZE (mm)	TYPE		LENGTH (m)
		3Ø	OAN										
1 Lightings	500	2.17		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2 Lightings	456		1.98	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3 C.O. x 8	1440			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4 C.O. x 10	1800		7.8	30	50	1	THHN	3.5 x 7	2.0	15	PVC		
5 Emergency Light	60		0.2	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
6 ACU 2.0hp	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
7 ACU 2.0hp	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9 ACU 2.0hp	1865			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10 ACU 1.5hp	1398			20	50	1	THHN	3.5 x 2	2.0	15	PVC		
11 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15 ACU 2.5hp	2331			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18 ACU 2.5hp	2331			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
20 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
11 Spare	1000			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12 Space				30	50	1							
TOTAL	37,424.00	58.89	50.80	52.87									

Main Breaker : 100 AT, 100 AF, 3 P, 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² + E8.0mm² VIA PVC conduit
Calculation :
USE: 100AF Neutral Bus

Ic 0+(58.89)
@ 80% DF = 58.89 A
If (47.11+10.13)+(1.25*10.13) = 47.11 A
Icb (47.11+10.13)+30 = 49.64 A
= 66.98 A

	REP. ACT 6986 SEC. 33 IRRIGATED AND CROSSLINKED HDPE PIPE WITH 10% OVERSTRESS AS PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES AND STRUCTURES TO BE EXCAVATED OR UNDER OTHER WORK THEREUNDER.	PROJECT TITLE: CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	PROJECT NO.: _____ DRAWING NO.: _____ DATE: _____ TITLE: _____	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN, ROMBLON	REV.: _____
	ELECTRICAL ENGINEER	GAD BY: _____ PREPARED BY: _____ CHECKED BY: _____	NOTED BY: _____ APPROVED BY: _____	SHEET CONTENT: AS SHOWN	SHEET NO.: E-23



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION: PP2 (future)
SYSTEM: 400V, 3Ø, 60HZ
MIN. I.C.:

PREPARED BY: AJB
ENCLOSURE: NEMA 12
MOUNTING: PAD MOUNTED
FEED IN:
OUT:

Load Description	LOAD			CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS
	VA	3Ø	AMPERES	AT	AF	P	TYPE	SIZE (mm ² x Ø _{INS.})	GND	SIZE (mm Ø)	TYPE	
1 Lightings	500		2.17	20	50	1	THHN	2.0 x 2	2.0	15	PVC	
2 Lightings	456		1.98	20	50	1	THHN	2.0 x 2	2.0	15	PVC	
3 C.O. x 8	1440			6.3	30	1	THHN	3.5 x 2	2.0	15	PVC	
4 C.O. x 7	1260			7.8	30	1	THHN	3.5 x 2	2.0	15	PVC	
5 C.O. x 8	1440			6.3	30	1	THHN	3.5 x 2	2.0	15	PVC	
5 Emergency Lights	60		0.2	20	50	1	THHN	2.0 x 2	2.0	15	PVC	
6 ACU 2.0hp	1865		8.1	20	50	1	THHN	3.5 x 2	2.0	15	PVC	
7 ACU 2.0hp	1865			8.1	20	1	THHN	3.5 x 2	2.0	15	PVC	
8 ACU 2.0hp	1865			8.1	20	1	THHN	3.5 x 2	2.0	15	PVC	
9 ACU 2.0hp	1865			8.1	20	1	THHN	3.5 x 2	2.0	15	PVC	
10 ACU 1.5hp	1398			6.07	20	1	THHN	3.5 x 2	2.0	15	PVC	
11 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
12 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC	
13 ACU 2.5hp	2331			10.13	30	1	THHN	3.5 x 2	2.0	15	PVC	
14 ACU 2.5hp	2331			10.13	30	1	THHN	3.5 x 2	2.0	15	PVC	
15 ACU 2.5hp	2331			10.13	30	1	THHN	3.5 x 2	2.0	15	PVC	
16 ACU 2.5hp	2331			10.13	30	1	THHN	3.5 x 2	2.0	15	PVC	
17 ACU 2.5hp	2331			10.13	30	1	THHN	3.5 x 2	2.0	15	PVC	
18 ACU 2.5hp	2331			10.13	30	1	THHN	3.5 x 2	2.0	15	PVC	
19 Spare	1000			4.34	30	1	THHN	3.5 x 2	2.0	15	PVC	
20 Space					50	1						
TOTAL	33,662.00	-	50.99	47.05	50.56							

Ic 0+(60)
 @ 80% DF 60*0.8
If (48-10.13)+(1.25*10.13)
Icb (48-10.13)+30

Main Breaker : 100 AT, 100 AF, 100 AF, 3 P, 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² + E8.0mm² VIA PVC conduit
Calculation :
USE: 100AF Neutral Bus

REPUBLIC ACT 6268 SEC. 33 <small>Approved and signed therefor, as a condition of the award, the priority of the architect, who has the work for which they are paid, shall be maintained and shall be reproduced on all drawings and specifications prepared or used on other work under the same agreement with the architect.</small>	PROJECT TITLE CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNO-ENTREPRENEURSHIP BUILDING	NOTED BY: ARCH. HANNAH FAITH F. MORTA, AIA Licensed PRC Architect	SHEET CONTENT: AS SHOWN	SHEET NO.:
	ELECTRICAL ENGINEER PR REG. No. : PTR No. : Place :	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	APPROVED BY: MEERIAN F. CATAVA-MANUEL, D., CSEE Romblon State University President	



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Romblon State University PANEL BOARD SCHEDULE

PROJECT : CBAT
DESIGNATION : PPI (future)
SYSTEM: 400V, 3Ø, 60HZ.
MIN. I.C.:
PREPARED BY: AJB
ENCLOSURE : NEMA 12
MOUNTING : PAD MOUNTED
FEED IN :
OUT :

Load Description	LOAD			CKT. PROTECTION			CONDUCTOR			RACEWAY		REMARKS	
	VA	AMPERES		AT	AF	P	TYPE	SIZE (mm ² x Chv.)	GND	SIZE (mm Ø)	TYPE		LENGTH (m)
		3Ø	ØAN										
1 Lightings	524	2.27		20	50	1	THHN	2.0 x 2	2.0	15	PVC		
2 Lightings	458		2	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
3 C.O. x 9	1620			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
4 C.O. x 10	1800			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
5 Emergency Light	55		0.24	20	50	1	THHN	2.0 x 2	2.0	15	PVC		
7 ACU 2.0hp (phase2)	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
8 ACU 2.0hp (phase2)	1865	8.1		20	50	1	THHN	3.5 x 2	2.0	15	PVC		
9 ACU 1.5hp (phase 1)	1398		6.07	20	50	1	THHN	3.5 x 2	2.0	15	PVC		
10 ACU 2.5hp	2331			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
11 ACU 2.5hp	2331			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
12 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
13 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
14 ACU 2.5hp	2331	10.13		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
15 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
16 ACU 2.5hp	2331			30	50	1	THHN	3.5 x 2	2.0	15	PVC		
17 ACU 2.5hp	2331		10.13	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
18 Fire Alarm Control Panel	1000	4.34		30	50	1	THHN	3.5 x 2	2.0	15	PVC		
19 Spare	1000		4.34	30	50	1	THHN	3.5 x 2	2.0	15	PVC		
20 Space				30	50	1	THHN						
TOTAL	30,233.00	43.07	43.04										

Ic 0+(60) = 60 A
@ 80% DF 60*0.8 = 48 A
If (48-10.13)+(1.25*10.13) = 50.53A
Icb (48-10.13)+30 = 67.87 A

Main Breaker : 100 AT. 100 AF. 3 P. 400V V
Feeder : THHN 1-22mm² x 3, + N22mm² +E8.0mm² VIA PVC conduit
Calculation :
USE: 100AF Neutral Bus

	REP. ACT 6266 SEC. 33 I am a duly Licensed Professional Engineer in the Philippines, and I hereby certify that the work shown on this drawing was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the Philippines.	PROJECT TITLE CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	PROJECT NO. _____	ELECTRICAL ENGINEER	PROJECT TITLE CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING	NOTED BY: _____ APPROVED BY: _____	SHEET CONTENT: AS SHOWN	SHEET NO.: 51
	Validity: _____ Date: _____ TIN: _____	LOCATION: RSU MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	RET.: _____	CHECKED BY: _____ DRAWN BY: _____	PREPARED BY: _____ CHECKED BY: _____	NOTED BY: _____ APPROVED BY: _____	SHEET CONTENT: AS SHOWN	SHEET NO.: 51



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1 SINGLE LINE DIAGRAM
E-29 SCALE 1:180

NOTED BY:	ARCEL HANNALEILL P. ADELTA, JR. <small>BSCE (ELECTRICAL ENGINEERING)</small>
APPROVED BY:	MERJON P. GATAYAN/ANIEA D. CUSE <small>BSCE (ELECTRICAL ENGINEERING)</small>
REVIEWED BY:	_____
CHECKED BY:	_____

PROJECT TITLE:	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOLENSHIP BUILDING
LOCATION:	285-MEN CAMPUS, LIWANAG, ODIONGAN ROMBLON
REVISION:	REV.:

Please be advised that this bid bulletin is issued to amend the Electrical Plan in all attached/associated documents. This shall be an integral part of the Bid Documents.

For information and guidance of all concerned.

ATTY. GLENN NIÑO M. SARTILLO
 BAC Chairperson