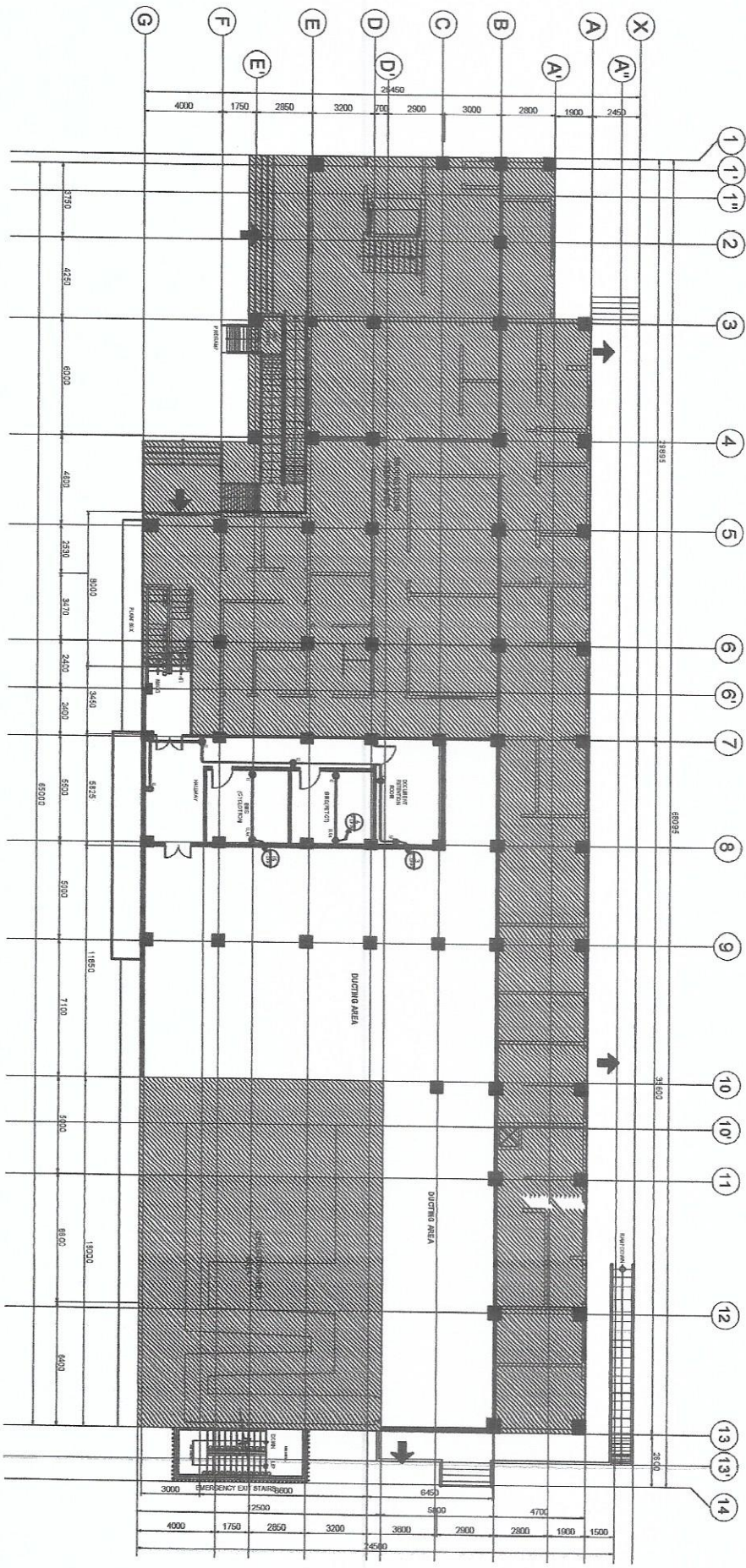




PROJECT TITLE:		SHEET CONTENT/S:		PREPARED BY:		RECOMMENDING APPROVALS:		APPROVED BY:		DRAWN BY:		SHEET NO.	
Innovating Nuclear Medicine Research and Services: Development of Emerging PET Radionuclides for Early Cancer Staging and Assessment of Biological Functions in Cancer Cells (Electrical Works C.Y. 2023) - Phase 4		MEZZANINE FLOOR POWER LAYOUT		Engr. Raelino B. Rola		Engr. Raelino B. Rola		Engr. Raelino B. Rola		Engr. Raelino B. Rola		E-16	
				Engr. Raelino B. Rola		Engr. Raelino B. Rola		Engr. Raelino B. Rola		Engr. Raelino B. Rola		17 of 29	



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE NUCLEAR RESEARCH INSTITUTE
CORONAVILLE AVENUE, DILIMAN, QUEZON CITY

PROJECT TITLE:
Innovating Nuclear Medicine Research and Services:
Development of Emerging PET Radiopharmaceuticals for
Early Cancer Staging and Assessment of Biological Functions
in Cancer Cells (Electrical Works C.Y. 2023) - Phase 4

SHEET CONTENT / S:
SECOND FLOOR
POWER LAYOUT

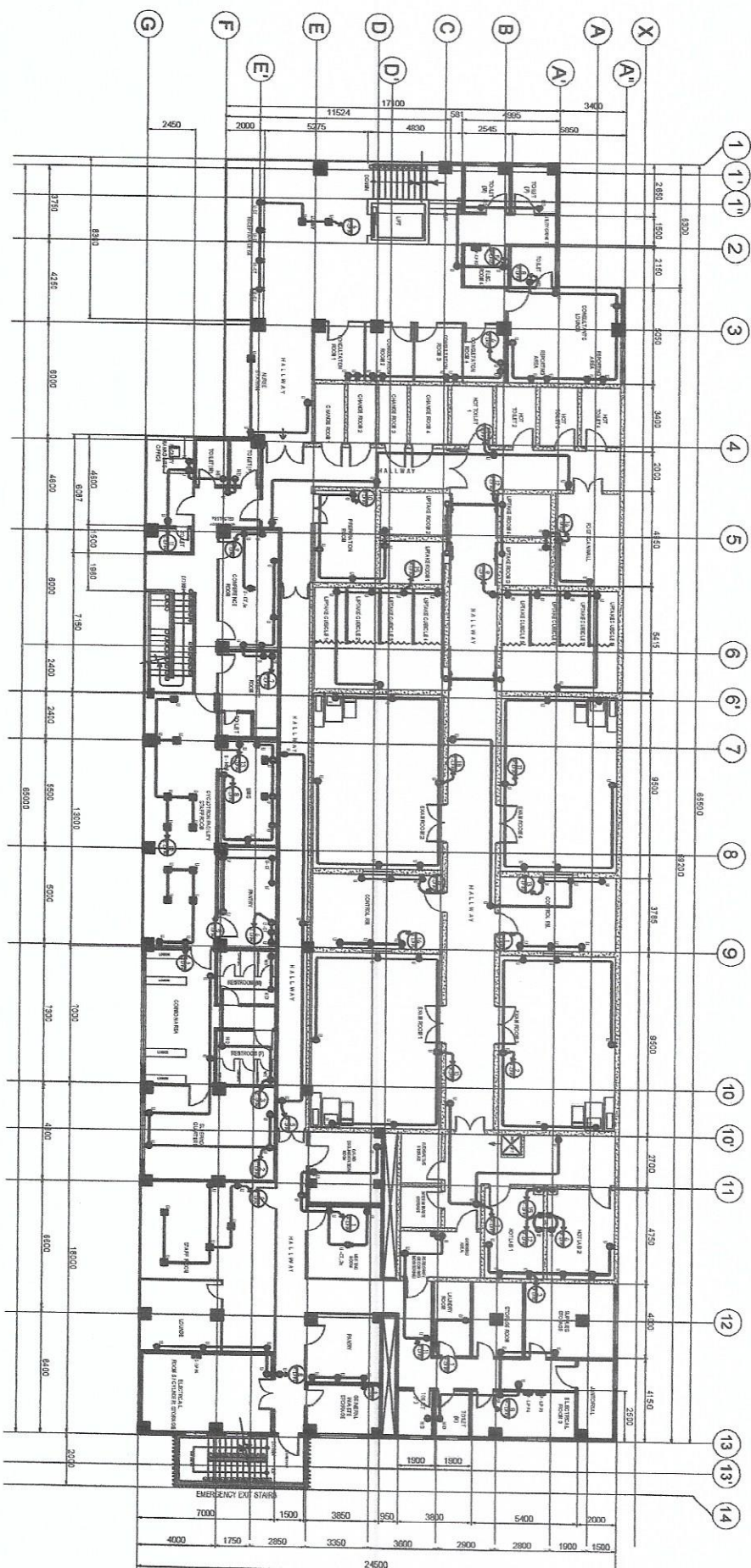
PREPARED BY:
Engr. Rosalyn B. Reyes
ELECTRICAL ENGINEER

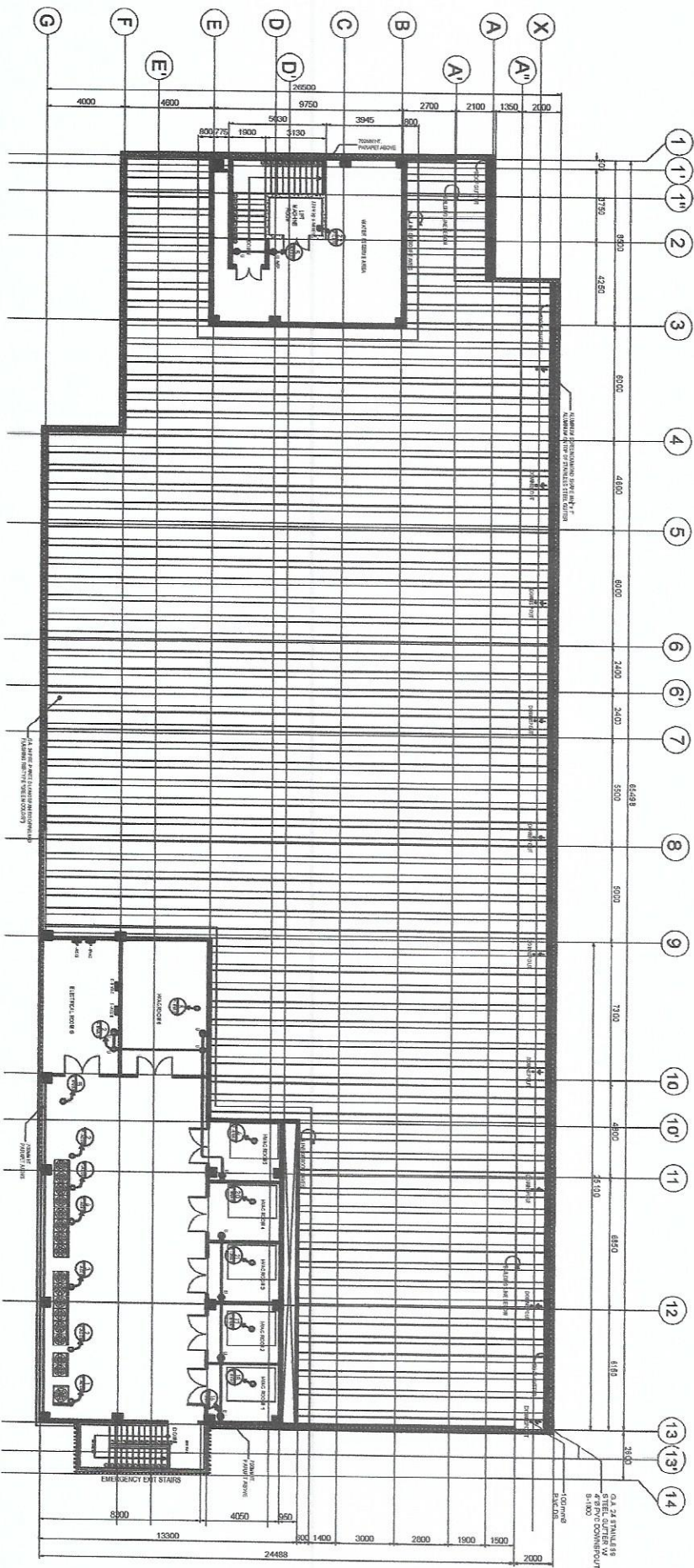
RECOMMENDING APPROVALS:
Mr. Valerio L. Navarro
MANAGING DIRECTOR
Engr. Valerio L. Navarro
ELECTRICAL ENGINEER

APPROVED BY:
Engr. Valerio L. Navarro
ELECTRICAL ENGINEER

APPROVED BY:
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ELECTRICAL ENGINEER

SHEET NO.
E - 17
18 of 29





Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE NUCLEAR RESEARCH INSTITUTE
3800NORTH AVENUE, DAVAO, GUZON CITY

PROJECT TITLE:

Innovating Nuclear Medicine Research and Services:
Development of Emerging PET Radiopharmaceuticals for
Early Cancer Staging and Assessment of Biological Functions
in Cancer Cells (Electrical Works C.Y. 2023) - Phase 4

SHEET CONTENT/S:

ROOF DECK
POWER LAYOUT

PREPARED BY:

Engr. Raulito B. Rias
185, 255
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RECOMMENDING APPROVALS:

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DRAWN BY:

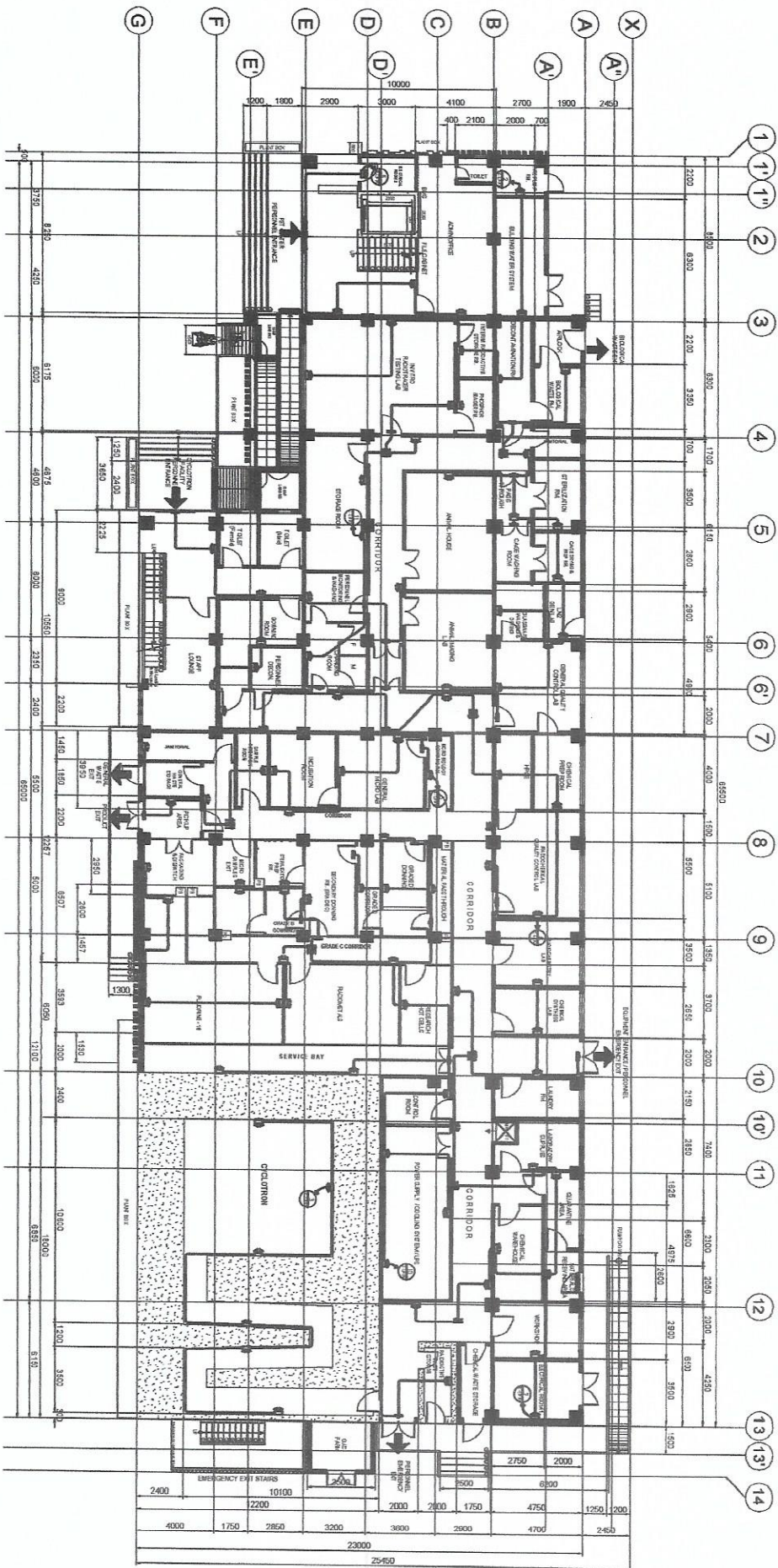
Engr. Raulito B. Rias
185, 255
ELECTRICIAN

SHEET NO.

E-18

DATE:

19-29



GROUND FLOOR
EMERGENCY LIGHTING LAYOUT
SCALE 1/8" = 1'-0"

PROJECT TITLE:

SHEET CONTENT/S:

PREPARED BY:

RECOMMENDING APPROVALS:

APPROVED BY:

CHECKED BY:

SHEET NO.



Innovating Nuclear Medicine Research and Services:
Development of Emerging PET Radiopharmaceuticals for
Early Cancer Staging and Assessment of Biological Functions
in Cancer Cells (Electrical Works C.Y. 2023) - Phase 4

GROUND FLOOR
EMERGENCY LIGHTING
LAYOUT

PREPARED BY:
ENR. ROBERTO B. RIVERA
PROJECT MANAGER

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MANAGING DIRECTOR
MR. PEDRO A. BORJA, Ph.D.
DEPUTY MANAGING DIRECTOR
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SHEET NO.
E - 19
20 - 28

PROJECT TITLE:

SHEET CONTENT/S:

PREPARED BY:

RECOMMENDING APPROVALS:

APPROVED BY:

MEZZANINE FLOOR
EMERGENCY LIGHTING
LAYOUT

Engr. Rosalio B. Rada
SSS 70-454
Engr. Arden E. Smith
SSS 70-454
Engr. Arden E. Smith
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SSS 70-454

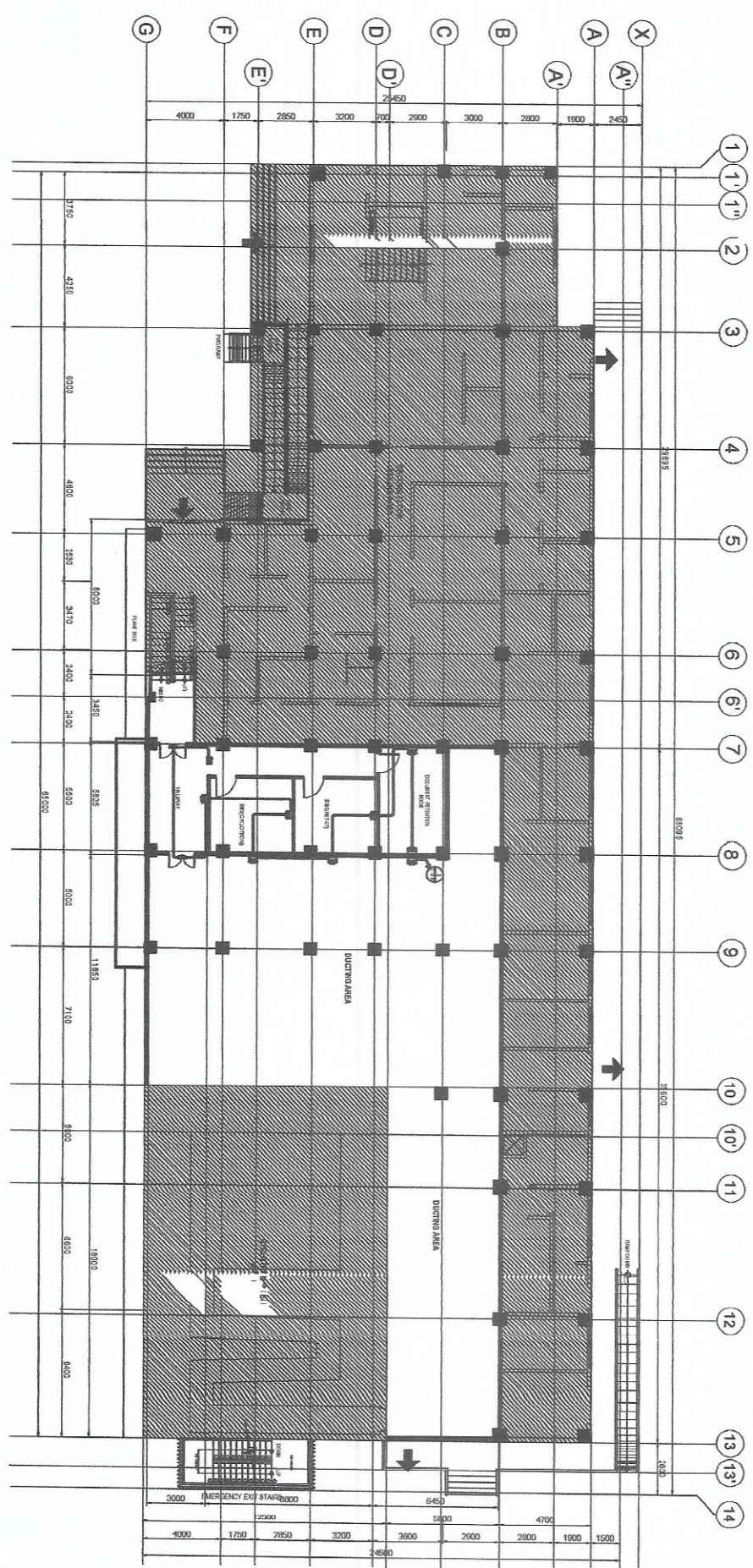
Engr. Arden E. Smith
SSS 70-454
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SSS 70-454



SHEET NO.

E - 20
21 of 29



**Innovating Nuclear Medicine Research and Services:
Development of Emerging PET Radiopharmaceuticals for
Early Cancer Staging and Assessment of Biological Functions
in Cancer Cells (Electrical Works C.Y. 2023) • Phae 4**

PROJECT TITLE:

SHEET CONTENT/S:

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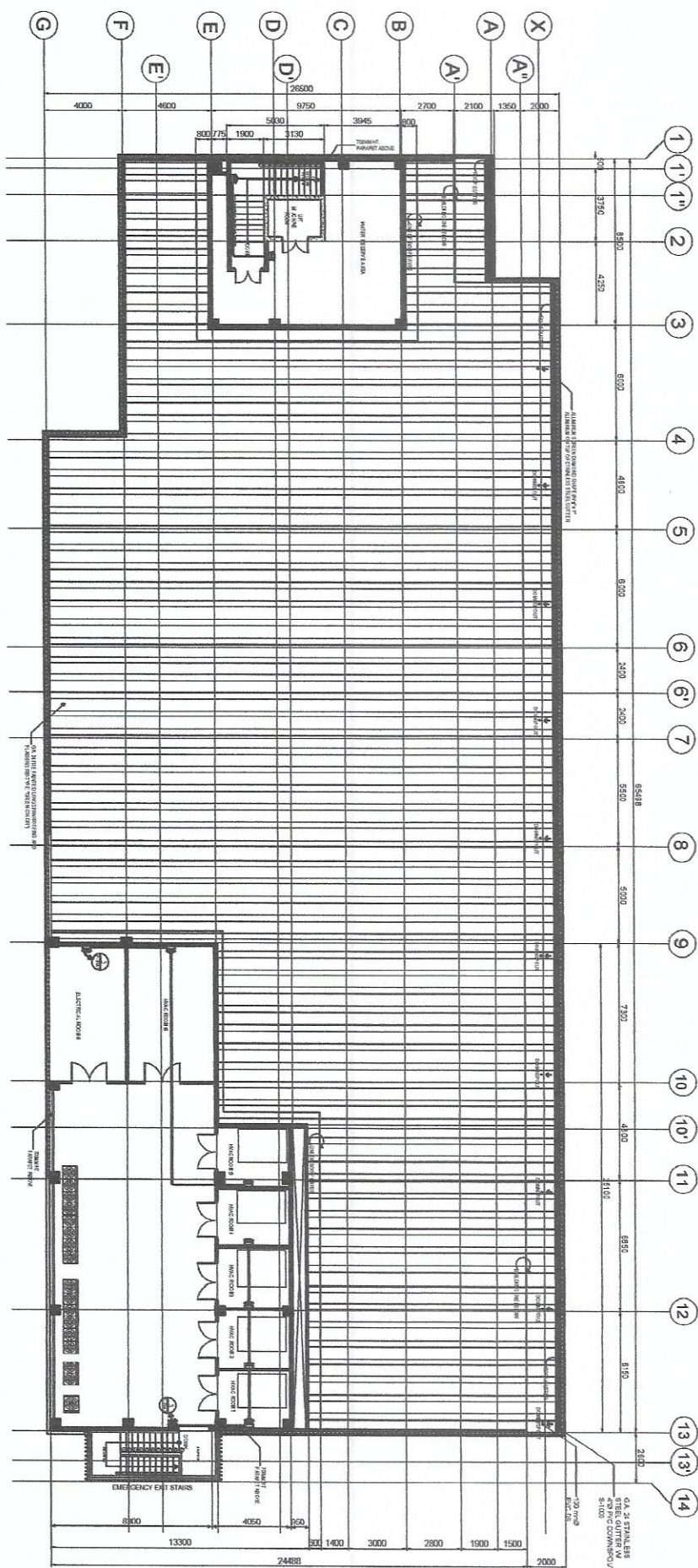
RECOMMENDING APPROVALS:

APPROVED BY:

10

E - 22

23 • 29



GENERAL NOTES:

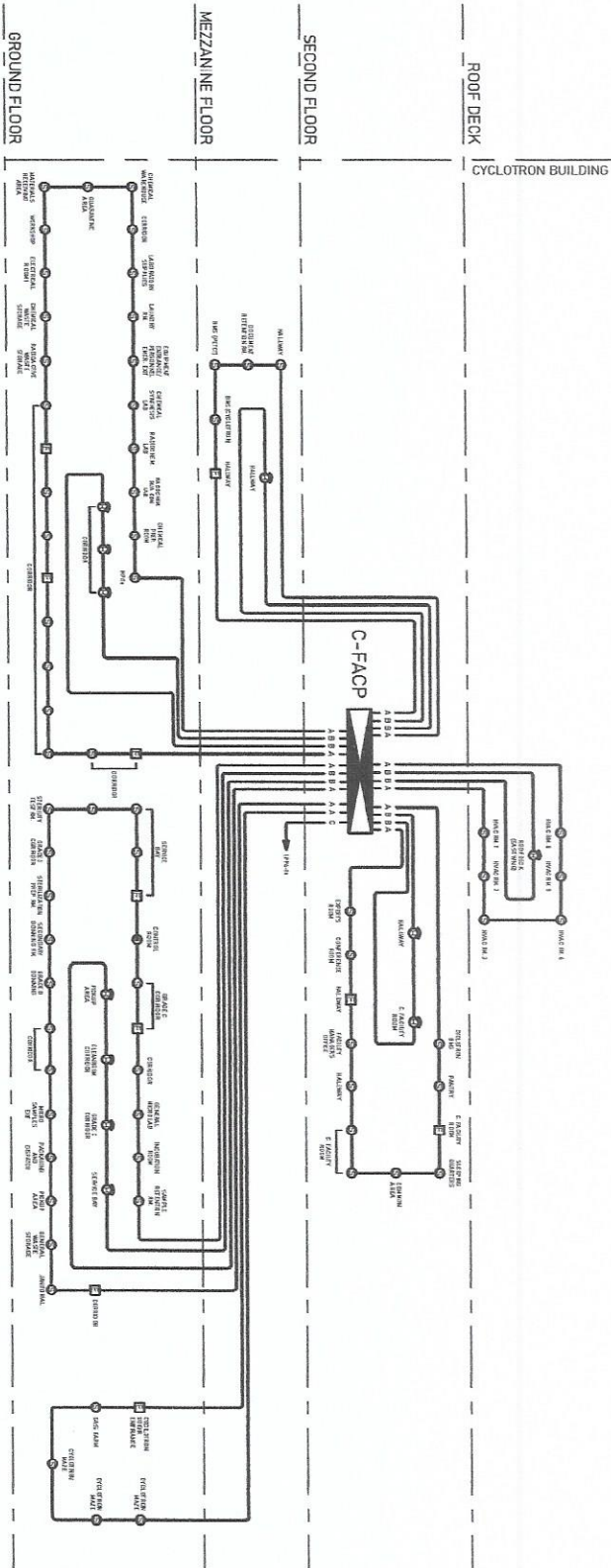
- ALL WORKS HEREIN SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATION OF THE LOCAL ENGINEERING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL COMPANY.
- ALL INSTALLATIONS SHOULD BE IN ACCORDANCE TO NFPA STANDARDS AND FIRE CODE OF THE PHILIPPINES.
- THE WORK SHALL BE EXECUTED IN CLOSE COORDINATION WITH OTHER TRADES SO AS TO ENSURE THE PROPER IMPLEMENTATION OF THIS WORK WITHOUT CLASHES WITH OTHER TRADES.
- ALL ELECTRICAL WORKS SHALL BE UNDER DIRECT AND IMMEDIATE SUPERVISION OF A QUALIFIED ELECTRICAL ENGINEER.
- PROVIDE ALL MATERIALS AND LABOR OF THE ENGINEERING, DESIGN AND INSTALLATION OF AUTOMATIC FIRE DETECTION AND ADDRESSABLE FIRE ALARM CONTROL PANEL, STROBE HORN AND MANUAL PULL SWITCH SYSTEM.
- THE FIRE ALARM CONTROL PANEL (FACP) IS AN ADDRESSABLE DEVICE IN RLS 3 - WIRE W/ GROUND, 24V/ A.C. 60 Hz.
- ALL OUTLETS SHALL BE GALVANIZED GAUGE NO. 8 BEEP TIRE WITH FACTORY MANUFACTURED AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- MOUNTING HEIGHT OF FACP, STROBE HORN AND PULL OUT SWITCH SHALL BE AS FOLLOWS:
 - FIRE ALARM PULL SWITCH
 - 1.0M ABOVE FINISH FLOOR
 - 1.0M ABOVE FINISH FLOOR
 - 1.0M ABOVE FINISH FLOOR
 - STROBE HORN
 - 1.0M ABOVE FINISH FLOOR
 - 1.0M ABOVE FINISH FLOOR
 - 1.0M ABOVE FINISH FLOOR
 - ALL SMOKE AND HEAT DETECTORS ARE SURFACED TYPE INSTALLED BELOW CEILING LINE.
- FOR FIRE DETECTION AND ALARM SYSTEM, THE SIZE AND TYPE OF WIRE ARE AS FOLLOWS:
 - SMOKE/HEAT DETECTOR
 - 1.25mm² TWISTED PAIR SHIELDED CABLE
 - NOTIFICATION CIRCUIT
 - 2.5mm² THHN/THWN
 - POWER SUPPLY CIRCUIT
 - 2.5mm² THHN/THWN AND 1.5mm² TW (G)
 - THE MINIMUM SIZE OF CONDUIT FOR FIRE DETECTION AND ALARM SYSTEM SHALL BE 1/2" IN 20mm² PVC.
- ACTIVATION OF SMOKE DETECTORS, HEAT DETECTORS, AND MANUAL PULL STATIONS SHALL INDICATE THE FOLLOWING TABS FOR THE FIRE ALARM CONTROL PANEL (FACP):
 - THE ACTIVATION OF BOTH AUDIBLE AND VISUAL ALARMS.
 - THE LOCATION SHALL INDICATE ALL APPLICABLE INFORMATION ASSOCIATED WITH THE ALARM CONDITION INCLUDING THE ZONE, DEVICE TYPE, DECLARANT ALL SYSTEM ACTIVITIES AND EVENTS.
 - DECLARANT ALL SYSTEM ACTIVITIES AND EVENTS.
- PROVIDE ADDITIONAL POWER SUPPLY FOR NOTIFICATION CIRCUIT IF THE FIRE ALARM NOTIFICATION CIRCUIT IS INSUFFICIENT.
- FIRE PROTECTION ALARM AND DETECTION SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF PHILIPPINE ELECTRICAL CODE (PART 1)

FIRE DETECTION & ALARM SYSTEM WIRING SCHEDULE

LABEL	WIRE	CONDUIT
A	1.25mm ² TP WIRE BLACK AND RED COLOR	20mm ² PVC
B	2.5mm ² THHN/THWN	20mm ² PVC
C	2.5mm ² THHN/THWN & 1.5mm ² THHN (G)	20mm ² RSC

1 FACP GEN. NOTES

2 FACP WIRING SCHEDULE



PROJECT TITLE:

SHEET CONTENT/S:

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RECOMMENDING APPROVALS:

APPROVED BY:



Innovating Nuclear Medicine Research and Services:
Development of Emerging PET Radiopharmaceuticals for
Early Cancer Staging and Assessment of Biological Functions
in Cancer Cells (Electrical Works C.Y. 2023), Phase 4

-FACP GENERAL NOTES
-FACP WIRING SCHEDULE
-FACP SINGLE-LINE
DIAGRAM 1

Engr. Rosalinda R. Reyes
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Engr. C. B. Reyes

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Engr. C. B. Reyes
Engr. C. B. Reyes



**Innovating Nuclear Medicine Research and Services:
Development of Emerging PET Radiopharmaceuticals for
Early Cancer Staging and Assessment of Biological Functions
in Cancer Cells (Electrical Works C.Y. 2023) - Phase 4**

GROUND FLOOR
FACP LAYOUT

PROJECT TITLE:

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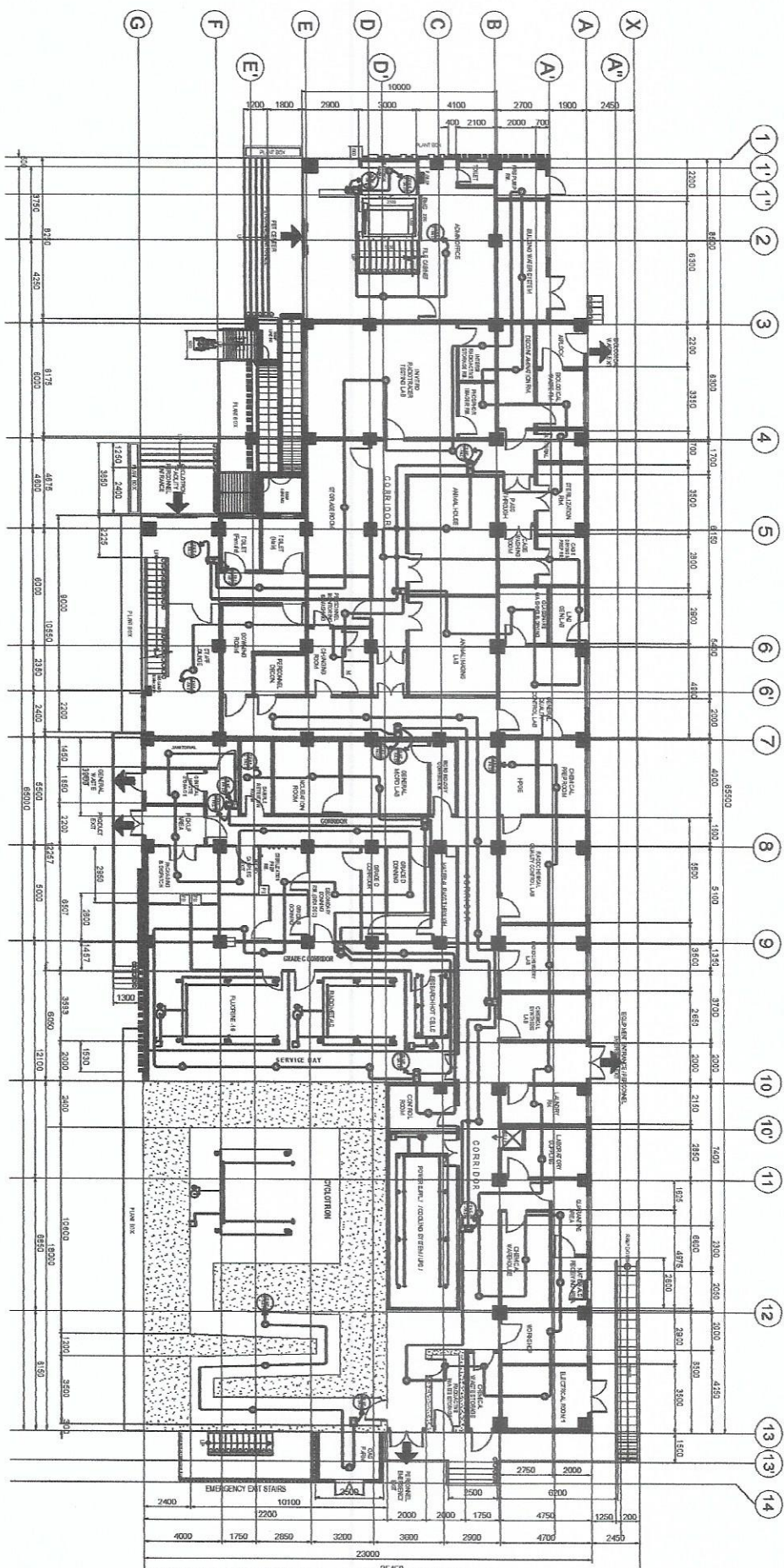
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APPROVED BY:

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SHEET NO.

GROUND FLOOR
FACP LAYOUT
SCALE 1:500
E-25



E - 26

26-29



**Innovating Nuclear Medicine Research and Services:
Development of Emerging PET Radiopharmaceuticals for
Early Cancer Staging and Assessment of Biological Functions
in Cancer Cells (Electrical Works C.Y. 2023) - Phase 4**

MEZZANINE FLOOR
FACP LAYOUT

PROJECT TITLE:

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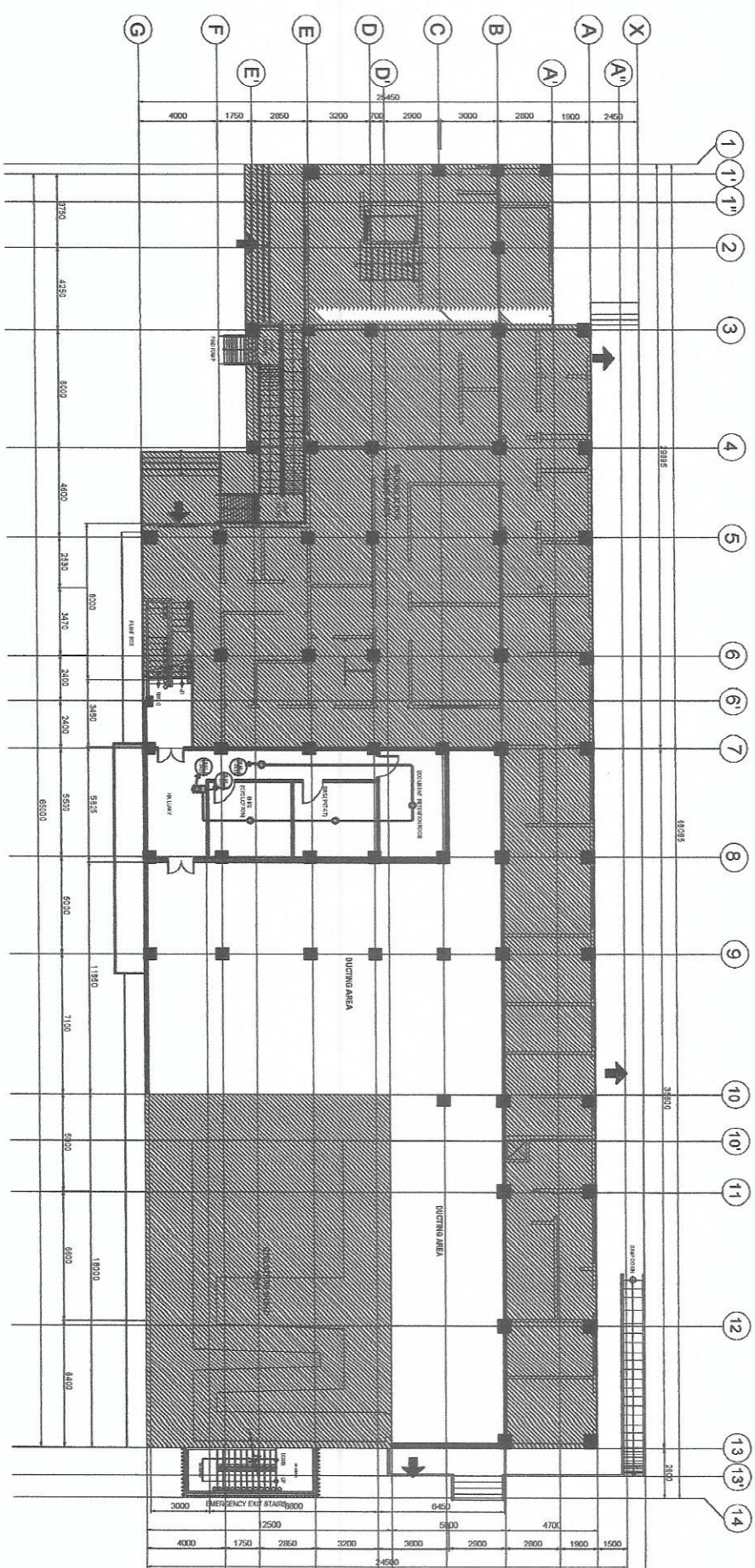
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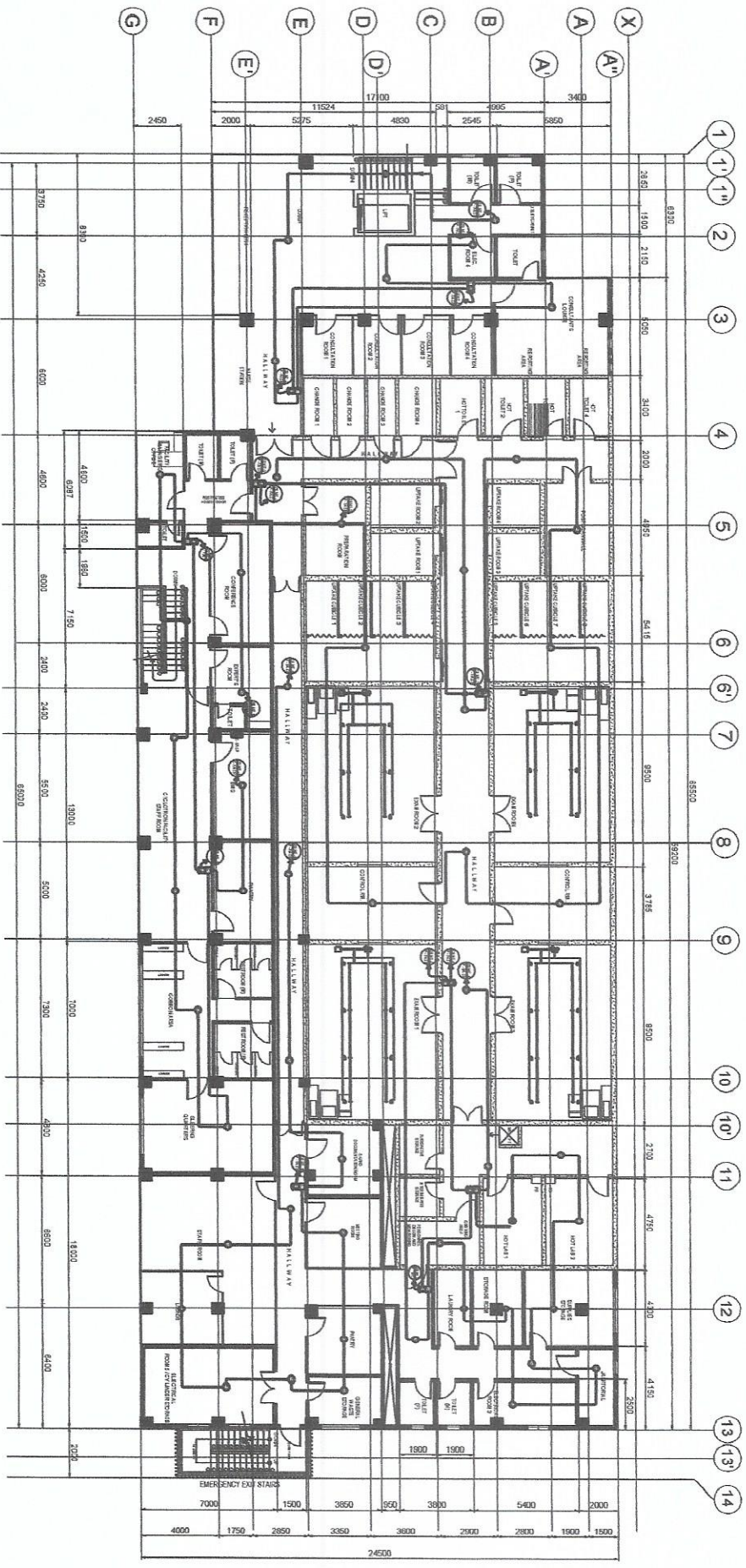
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E-26

INDEX





SECOND FLOOR
FAOP LAYOUT
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1:200

PROJECT TITLE:

SHEET CONTENT/S:

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DRAWN BY:

SHEET NO.



Republic of the Philippines
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SECOND FLOOR
FAOP LAYOUT

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Engr. Arnel C. Barba

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**Innovating Nuclear Medicine Research and Services:
Development of Emerging PET Radiopharmaceuticals for
Early Cancer Staging and Assessment of Biological Functions
in Cancer Cells (Electrical Works C.Y. 2023).** Phase 4

**ROOF DECK
FACP LAYOUT**

PREPARED BY:

RECOMMENDING APPROVALS:

APPROVED BY:

DRAWN BY:

SHEET NO.

1
E-28

ROOF DECK
FACP LAYOUT

SCALE 1/32"=1'-0"

