



P E R S P E C T I V E



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: AR. MARK ANTHONY L. PUNZALAN ARCHITECT, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO: A-01 PAGE NO: 01/119
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V I C I N I T Y M A P



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Bomulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTHONY L. PUNZALAN
ARCHITECT, OFDM-POU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

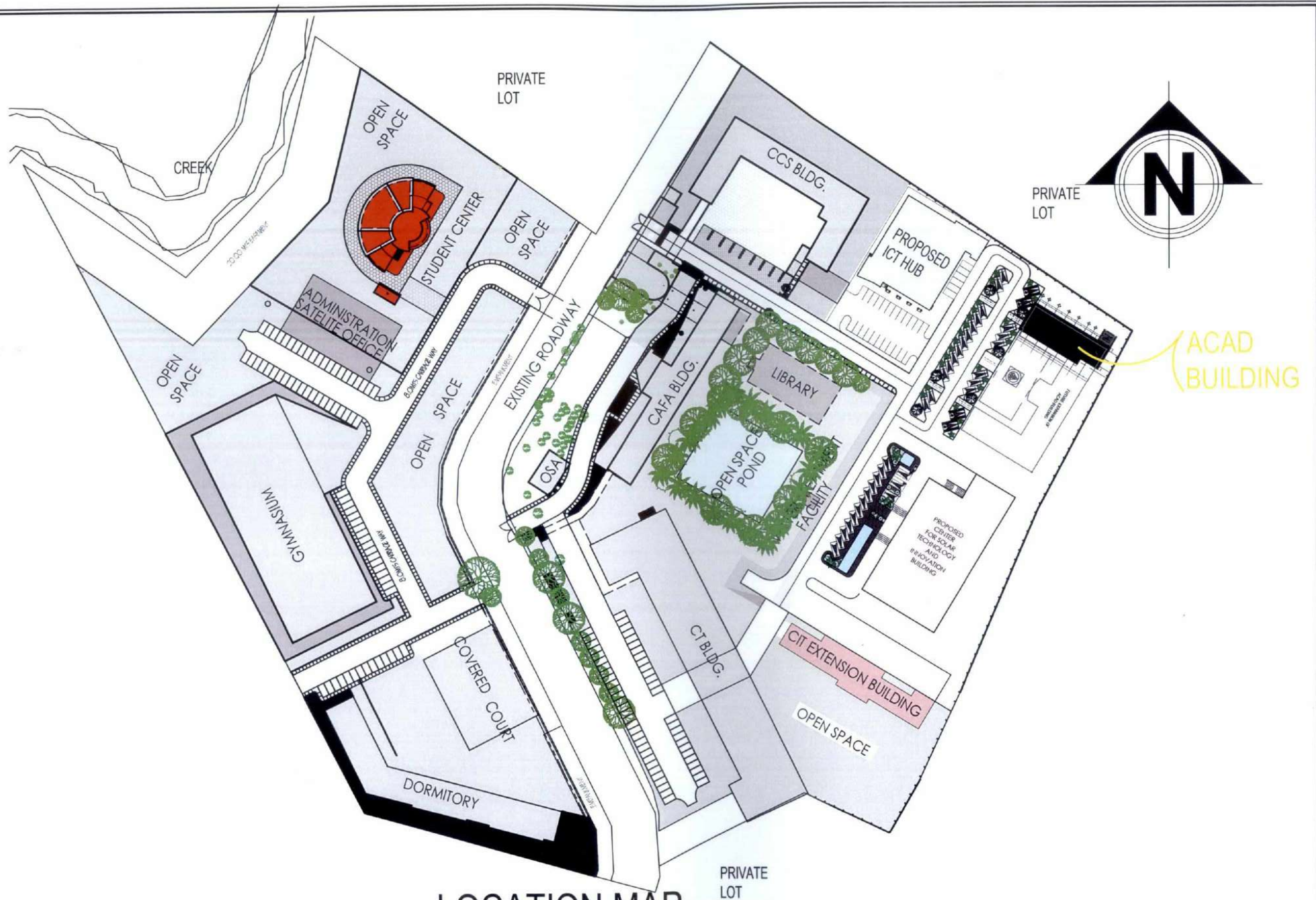
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO.:
A-03
PAGE NO.:
03/119



LOCATION MAP

SCALE 1:1500M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
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HEAD, OFDM-PDU

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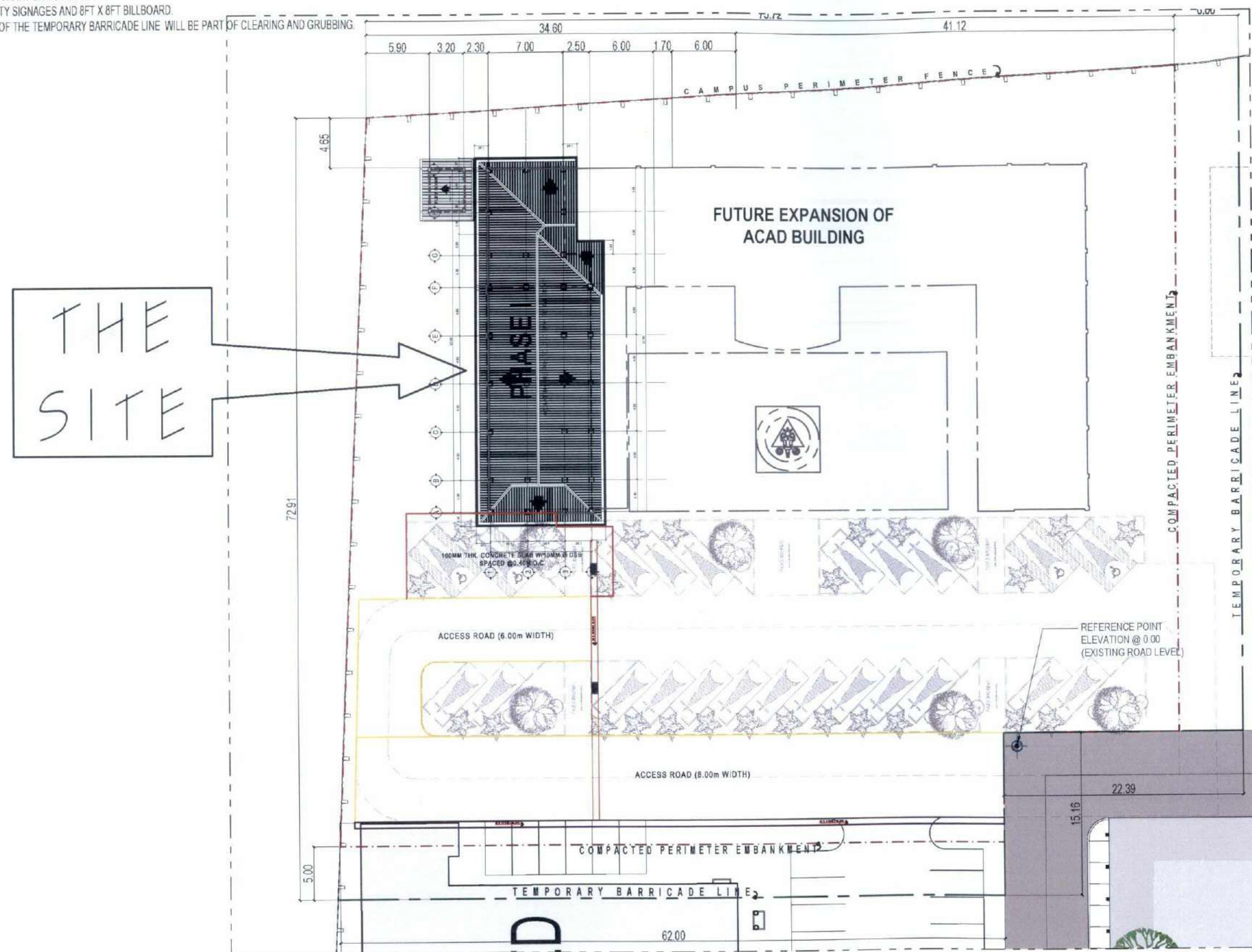
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
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PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025
SHEET NO.:
A-04
PAGE NO.:
04/119

PROVIDE TEMPORARY BARRICADE/COVER IN THE PERIMETER CONSTRUCTION AREA USING PRE-PAINTED G.I CORRUGATED/ RIB TYPE WITH STABLE FRAME. DO NOT USE "BLUE SACK".

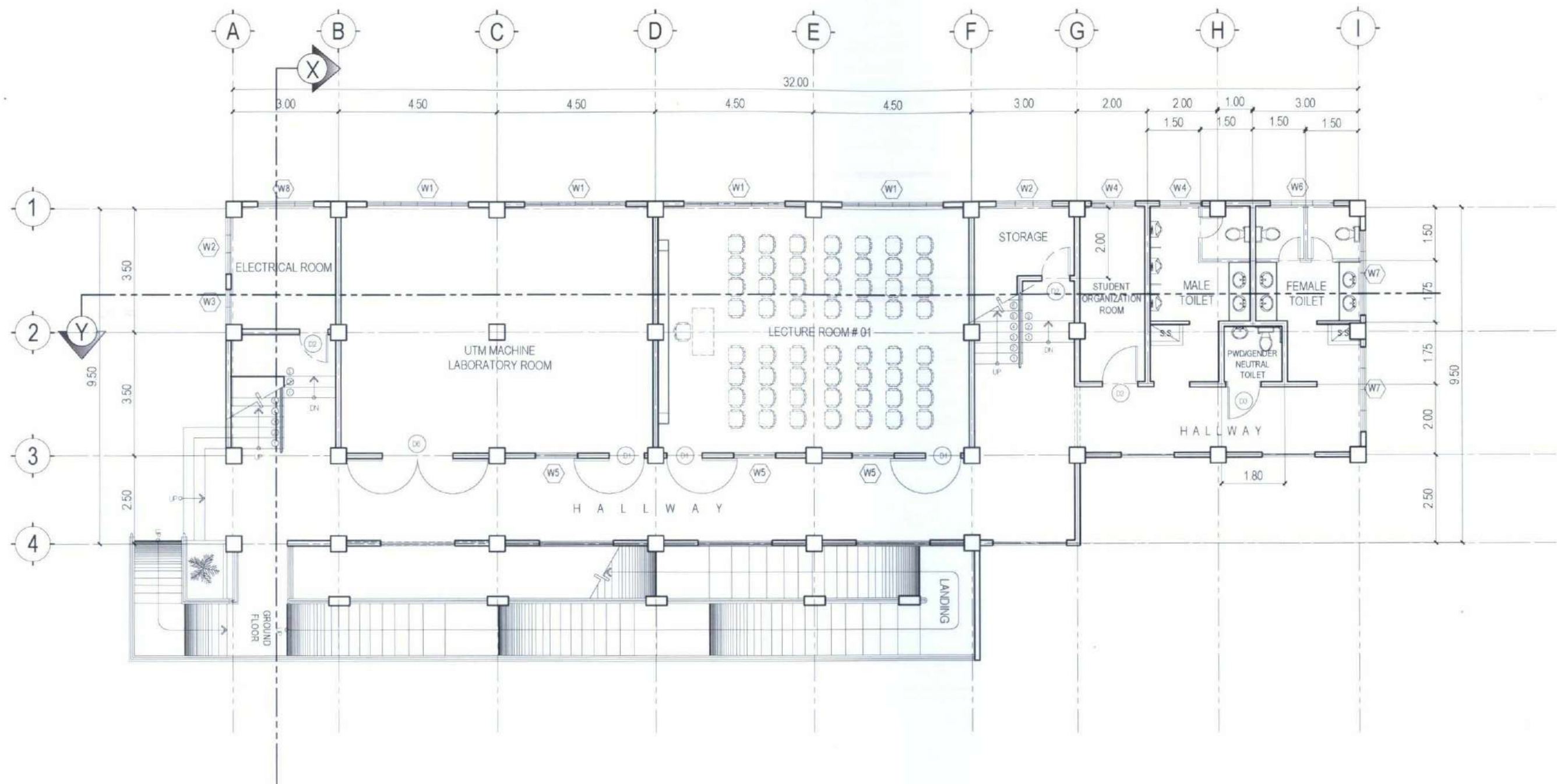


1:400M

TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Ramoso Boulevard, Tarlac City, Philippines 2300

05/119

NOTE:
USE 4" THK. CONCRETE HOLLOW BLOCKS FOR ALL INTERIOR AND EXTERIOR WALLS.



GROUND FLOOR PLAN

SCALE

1:125M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
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DIRECTOR, OFDM

REQUESTING OFFICE:
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DEAN, COE

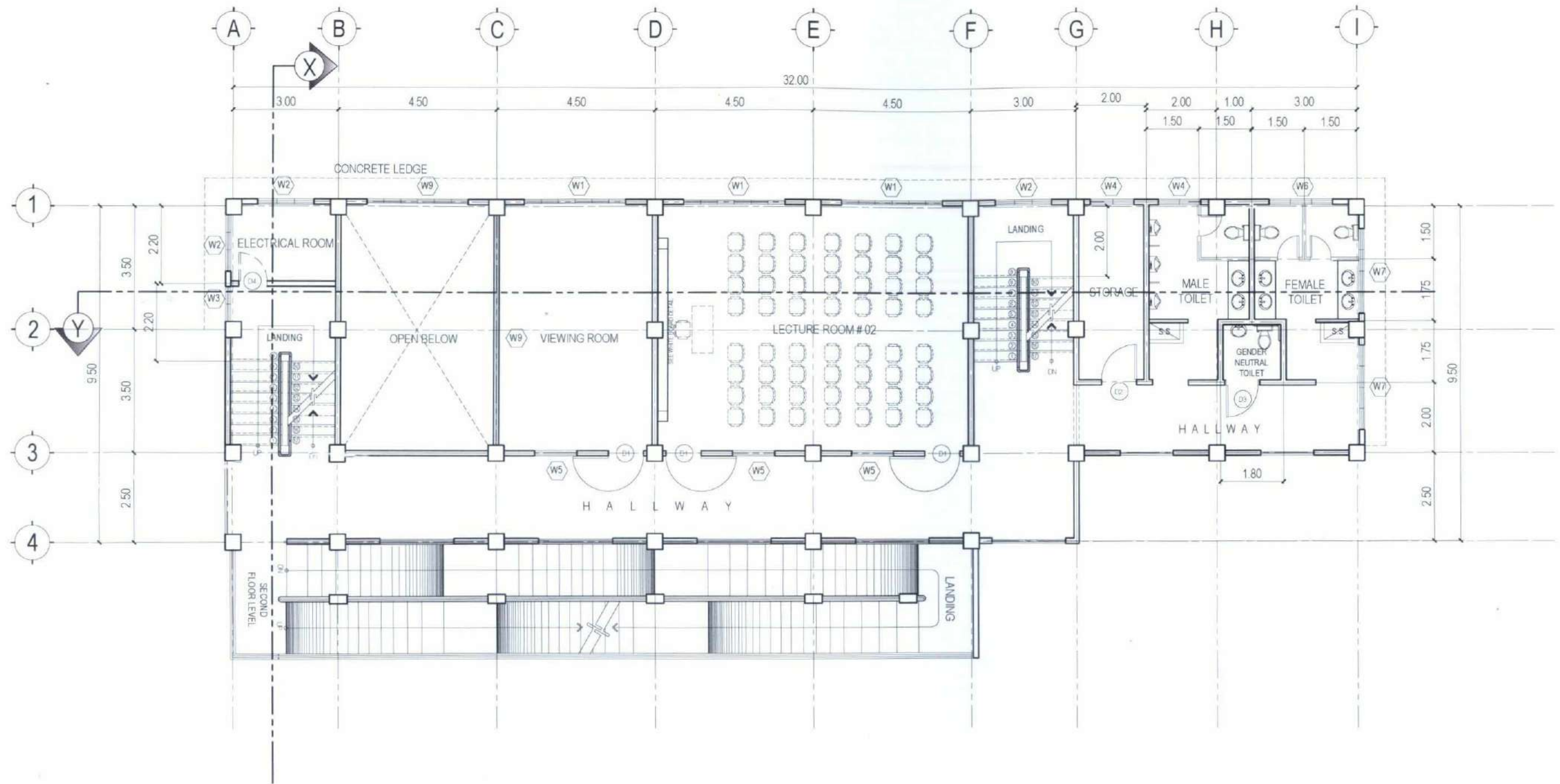
RECOMMENDING APPROVAL:
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SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO.:
A-06
PAGE NO.:
06/119

NOTE:
USE 4" THK. CONCRETE HOLLOW BLOCKS FOR ALL INTERIOR AND EXTERIOR WALLS.



SECOND FLOOR PLAN

SCALE

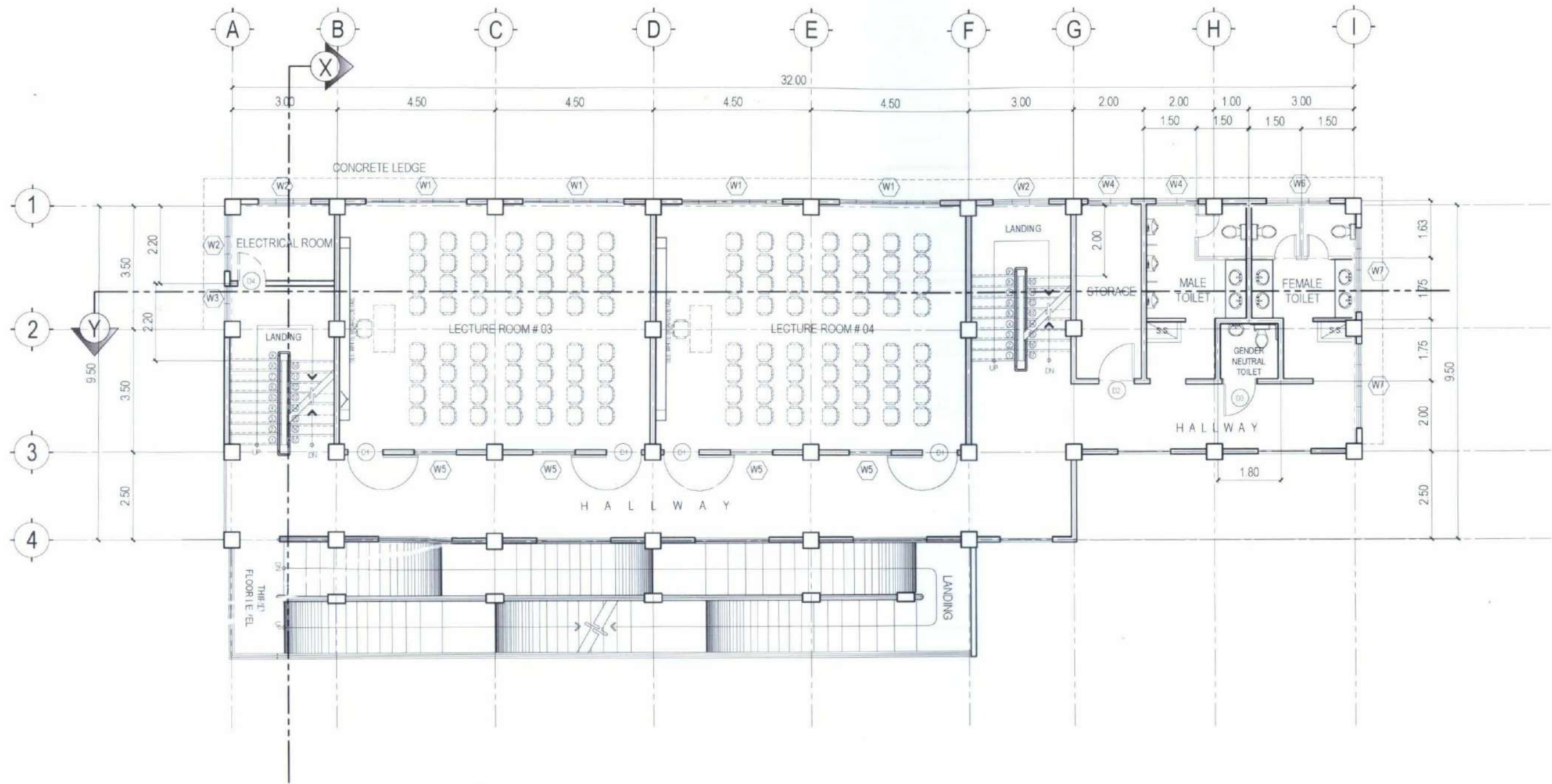
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TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
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PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: AR. MARK ANTHONY L. PUNZALAN ARCHITECT, OFDM-POU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO.: A-07 PAGE NO.: 07/119
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NOTE:
USE 4" THK. CONCRETE HOLLOW BLOCKS FOR ALL INTERIOR AND EXTERIOR WALLS.



THIRD FLOOR PLAN

SCALE

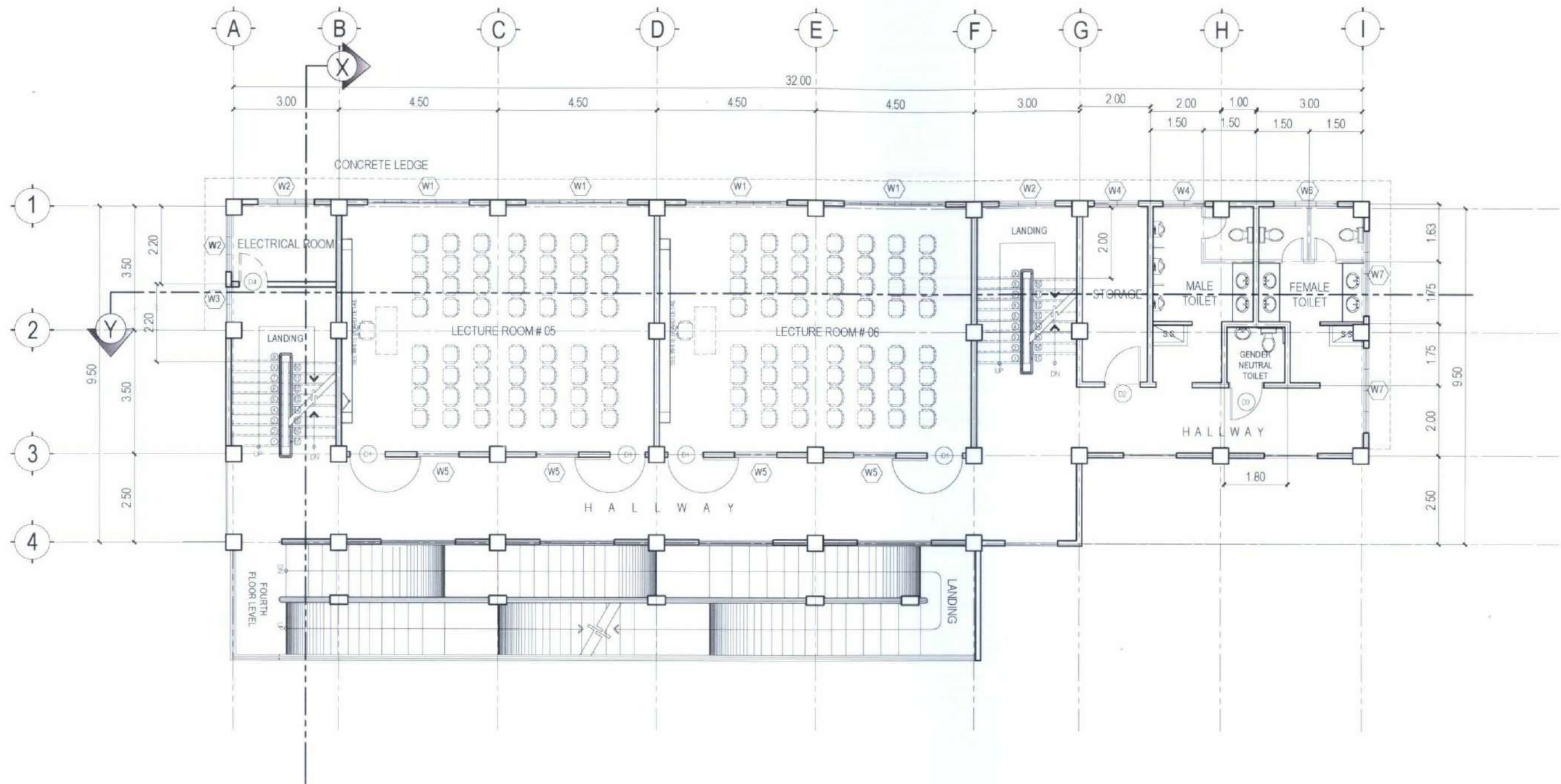
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TARLAC STATE UNIVERSITY
Facilities Development and
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PROJECT TITLE:	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY:	AR. MARK ANTHONY L. PUNZALAN ARCHITECT, OFDM-PDU	CHECKED BY:	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY:	AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:	DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL:	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED:	DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS:	AS SHOWN	SHEET NO.:	A-08
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY													DATE:	2025	PAGE NO.:	08/119

NOTE
USE 4" THK. CONCRETE HOLLOW BLOCKS FOR ALL INTERIOR AND EXTERIOR WALLS.



FOURTH FLOOR PLAN

SCALE

1:125M



TARLAC STATE UNIVERSITY
Facilities Development and
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Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
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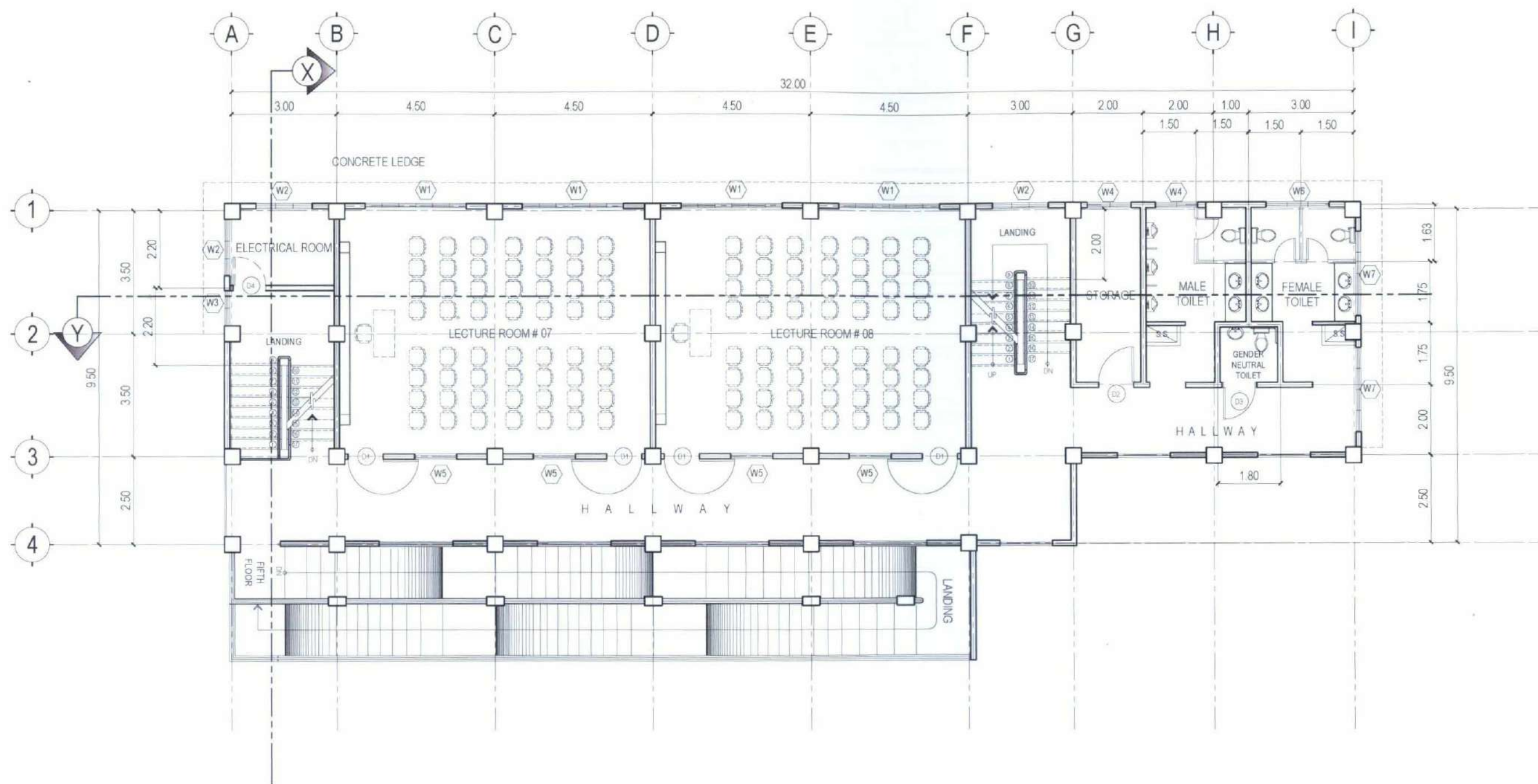
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ATTY. WILMARK J. RAMOS, DBA
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PRESIDENT

SHEET CONTENTS
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DATE: 2025

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09/119

NOTE:
USE 4" THK. CONCRETE HOLLOW BLOCKS FOR ALL INTERIOR AND EXTERIOR WALLS.



FIFTH FLOOR PLAN

SCALE

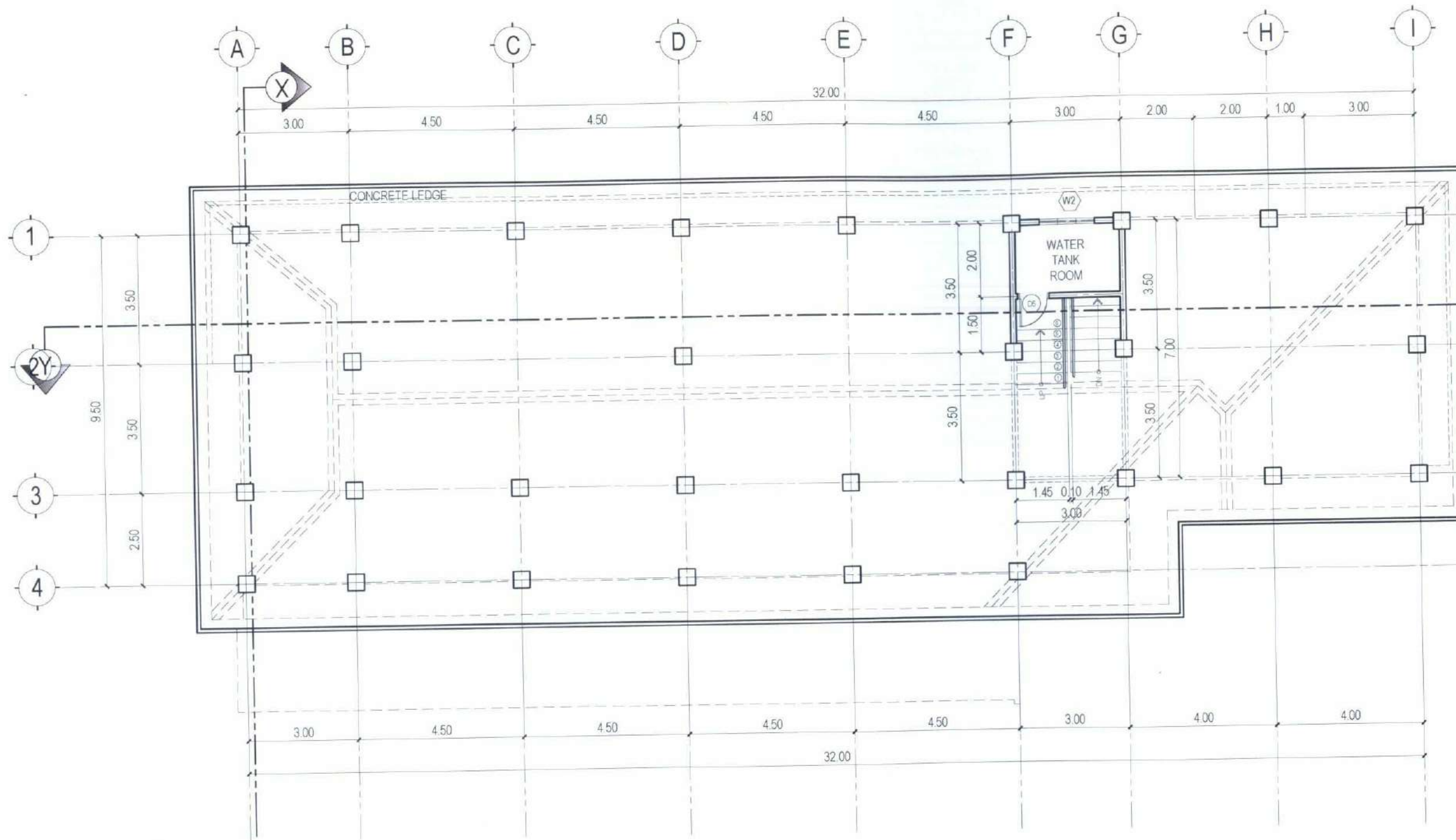
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TARLAC STATE UNIVERSITY
Facilities Development and
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PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: AR. MARK ANTHONY L. PUNZALAN ARCHITECT, RUPM-POU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, O/DM-POU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, O/DM	REQUESTING OFFICE: DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO.: A-10 PAGE NO.: 10/119
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NOTE:
USE 4" THK. CONCRETE HOLLOW BLOCKS FOR ALL INTERIOR AND EXTERIOR WALLS.



MEZZANINE/ROOF DECK FLOOR PLAN

SCALE 1:125M



TARLAC STATE UNIVERSITY
Facilities Development and
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Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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HEAD, OFDM-PDU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
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DEAN, COE

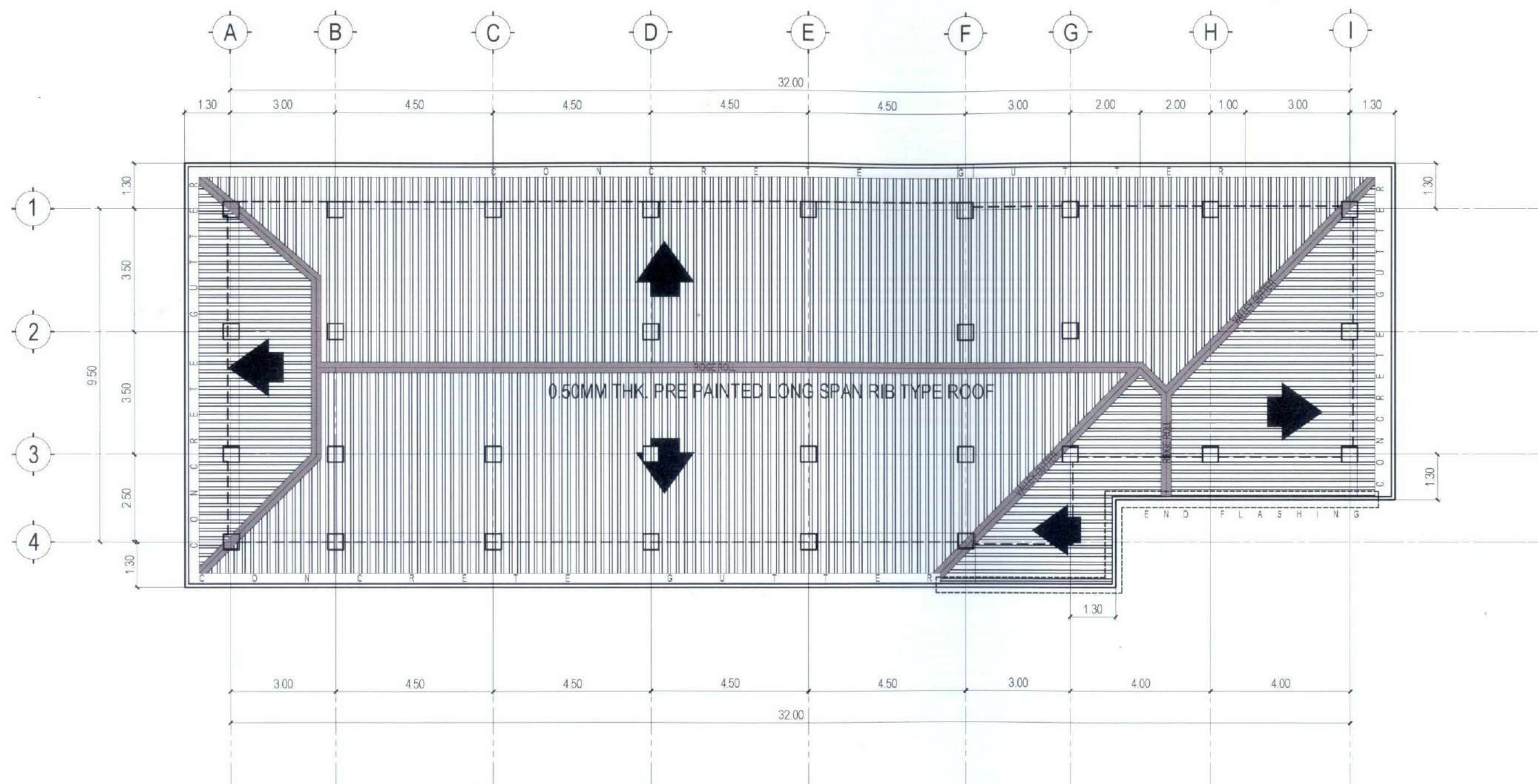
RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
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SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO.:
A-11
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11/119

NOTE:
USE 4" THK. CONCRETE HOLLOW BLOCKS FOR ALL INTERIOR AND EXTERIOR WALLS.

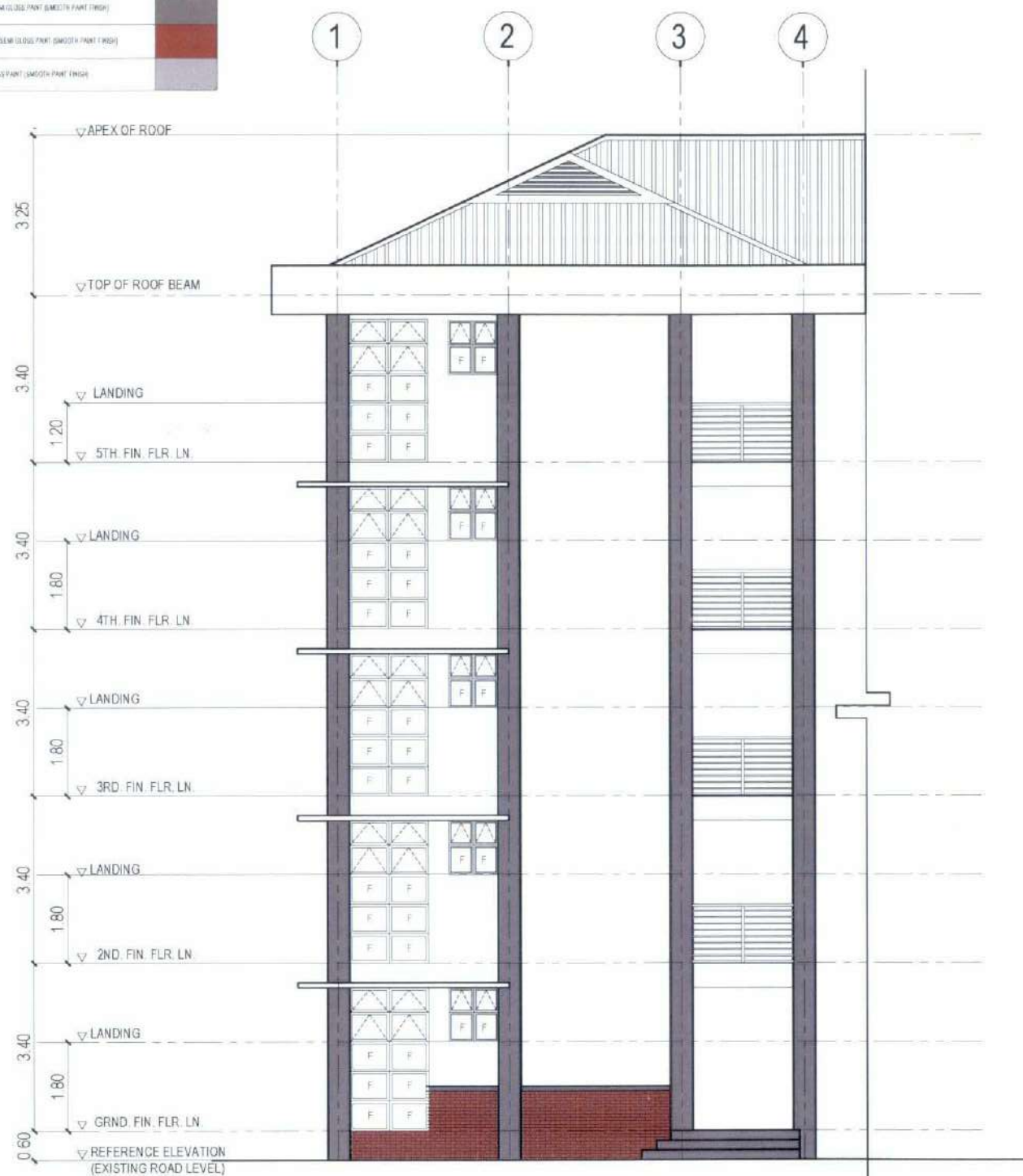


ROOF PLAN
SCALE 1:125M

	TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. MARK ANTHONY L. MUNZALAN ARCHITECT/M-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO: A-12 PAGE NO: 12/119
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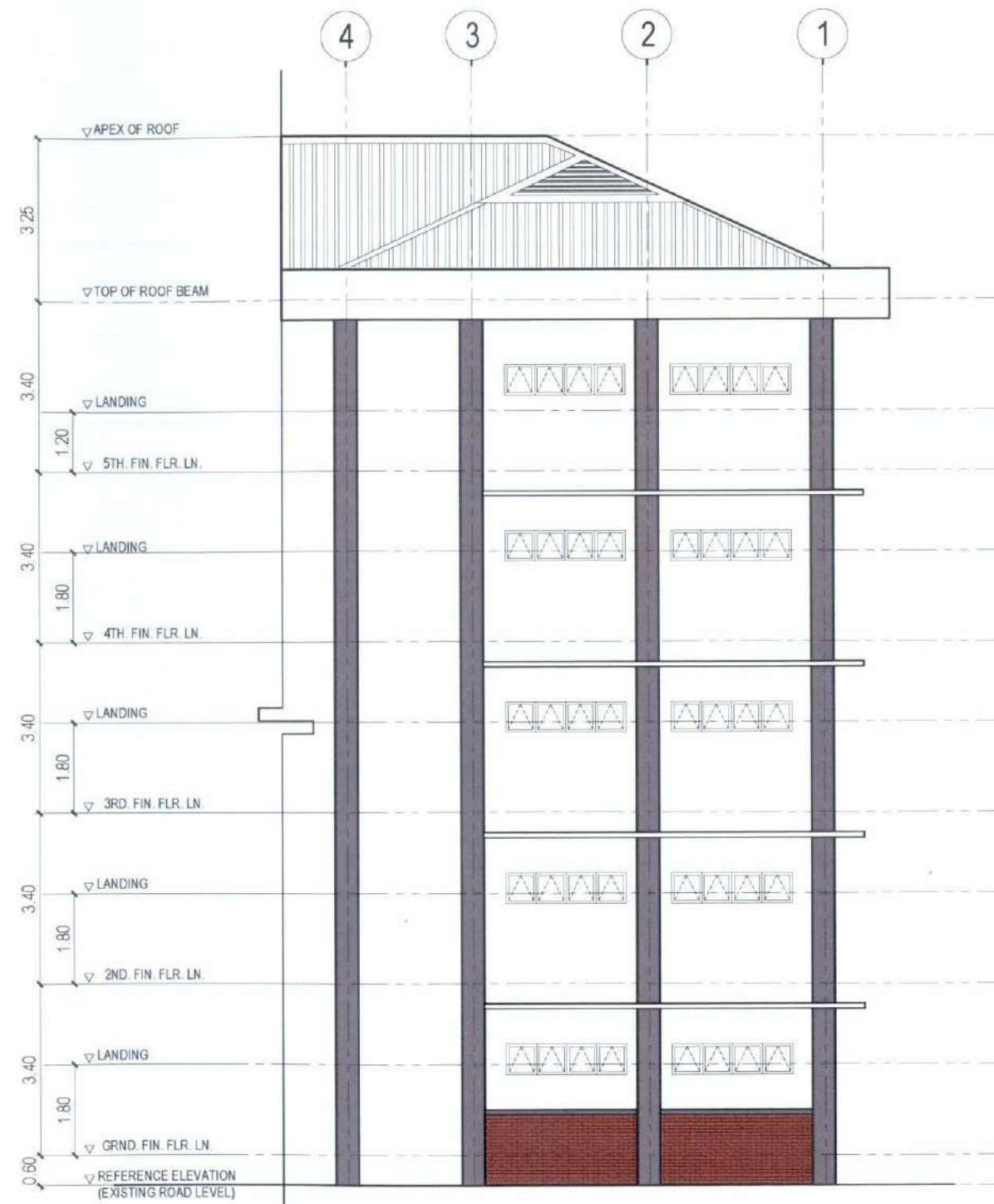
SCHEDULE OF WALL FINISHES:

NO.	DESCRIPTION	FINISH
WF-1	OFF-WHITE SEMI-GLOSS LATEX PAINT (SMOOTH PAINT FINISH)	
WF-2	SMOKE GRAY SEMI-GLOSS LATEX PAINT (SMOOTH PAINT FINISH)	
WF-3	TERRAZZO A RED SEMI-GLOSS LATEX PAINT (SMOOTH PAINT FINISH)	
WF-4	GRAY SEMI-GLOSS LATEX PAINT (SMOOTH PAINT FINISH)	



FRONT ELEVATION

SCALE 1:125M



REAR ELEVATION

SCALE 1:125M



TARLAC STATE UNIVERSITY
Facilities Development and
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Remulo Roadward, Tarlac City, Philippines 2300

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CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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ARCHITECT, OFDM-POH

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AR. CHERRY L. FABIANES
HEAD, OFDM-POH

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DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

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SCHEDULE OF WALL FINISHES:

NO.	DESCRIPTION
01	OFFSHOTS SEMI GLOSS LATEX PAINT (SMOOTH PAINT FINISH)
02	SMOKE GRAY SEMI GLOSS LATEX PAINT (SMOOTH PAINT FINISH)
03	TERRAZZO A RED SEMI GLOSS PAINT (SMOOTH PAINT FINISH)
04	GRAY SEMI GLOSS PAINT (SMOOTH PAINT FINISH)



RIGHT SIDE ELEVATION

SCALE 1:125M



TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
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AR. CHERRY L. FABIANES
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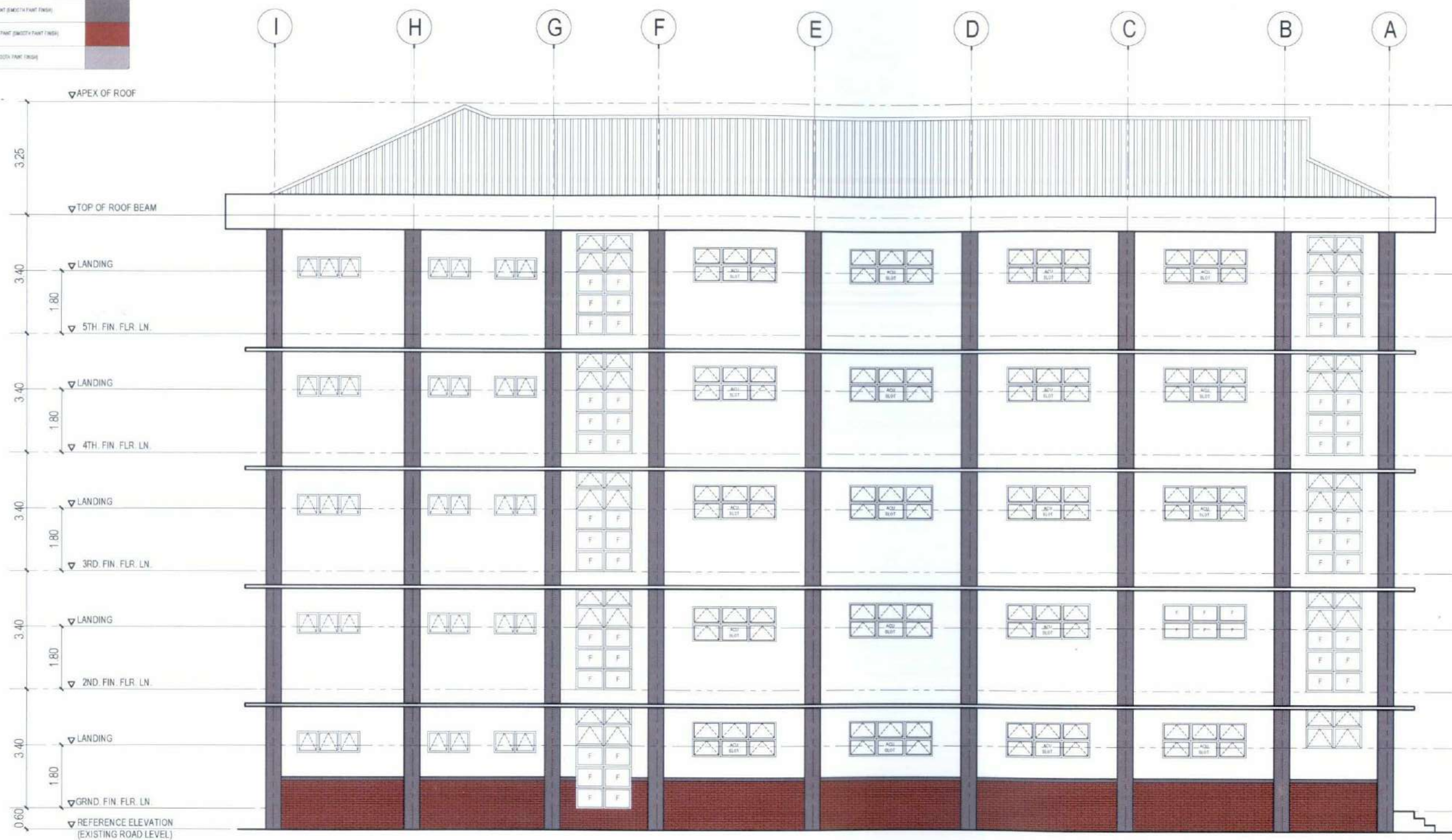
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

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DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025
SHEET NO.:
A-14
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14/119

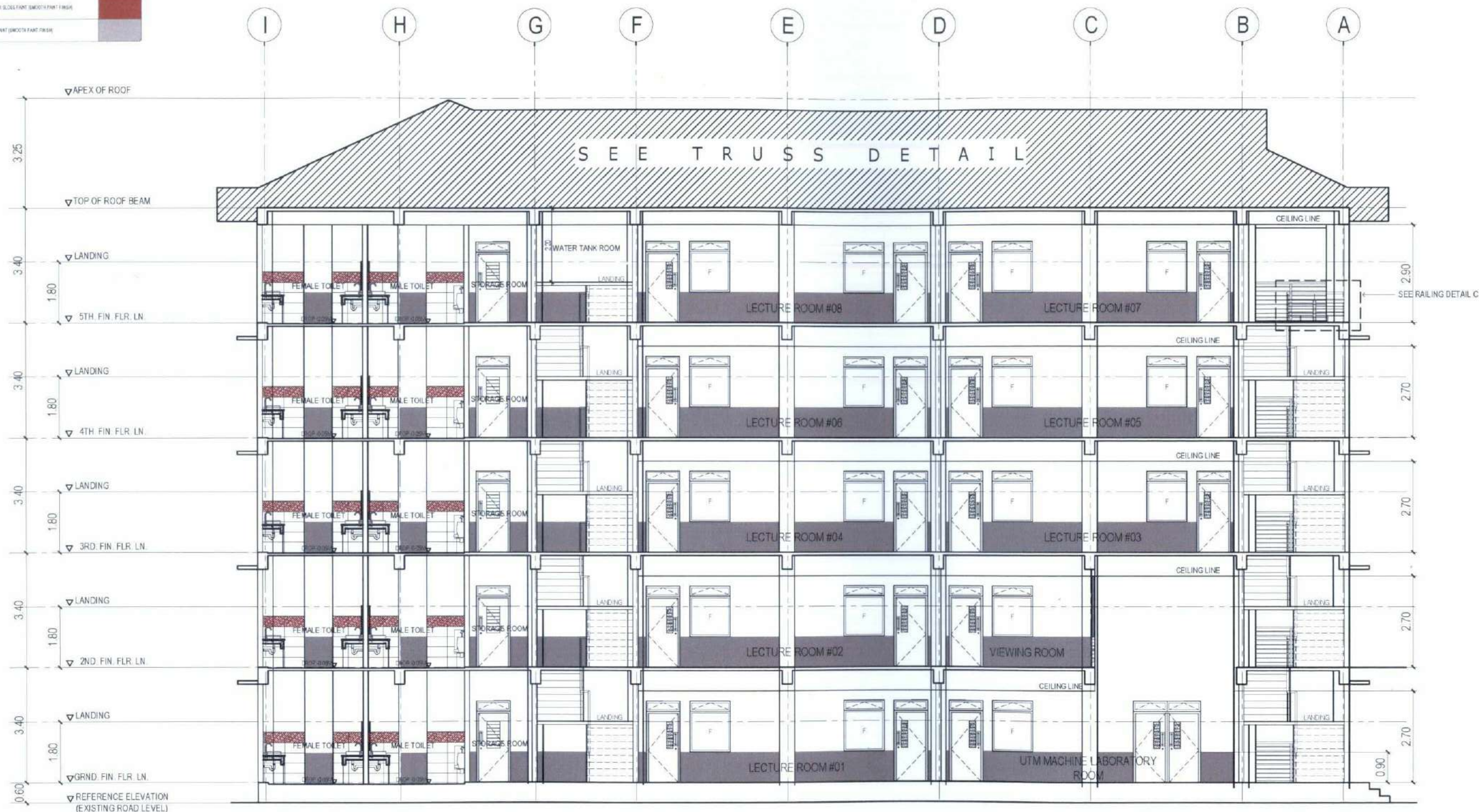
MIX	DESCRIPTION
SW1	50% PANTS SEMI-GLOSS (LATE PAINT) (SMOOTH PAINT FINISH)
SW2	50% DRY SEMI-GLOSS PAINT (SMOOTH PAINT FINISH)
SW3	TERAZACORD SEMI-GLOSS PAINT (SMOOTH PAINT FINISH)
SW4	50% SEMI-GLOSS PAINT (SMOOTH PAINT FINISH)



SCALE 1:125M

SCHEDULE OF WALL FINISHES:

MARK	DESCRIPTION
WP-1	OFF-WHITE SEMI-GLOSS LATEX PAINT (SMOOTH PAINT FINISH)
WP-2	SMOKE GRAY SEMI-GLOSS LATEX PAINT (SMOOTH PAINT FINISH)
WP-3	TERACOTTA RED SEMI-GLOSS LATEX PAINT (SMOOTH PAINT FINISH)
WP-4	GRAY SEMI-GLOSS LATEX PAINT (SMOOTH PAINT FINISH)



SECTION THRU Y

SCALE 1:125M



TARLAC STATE UNIVERSITY
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PREPARED BY:
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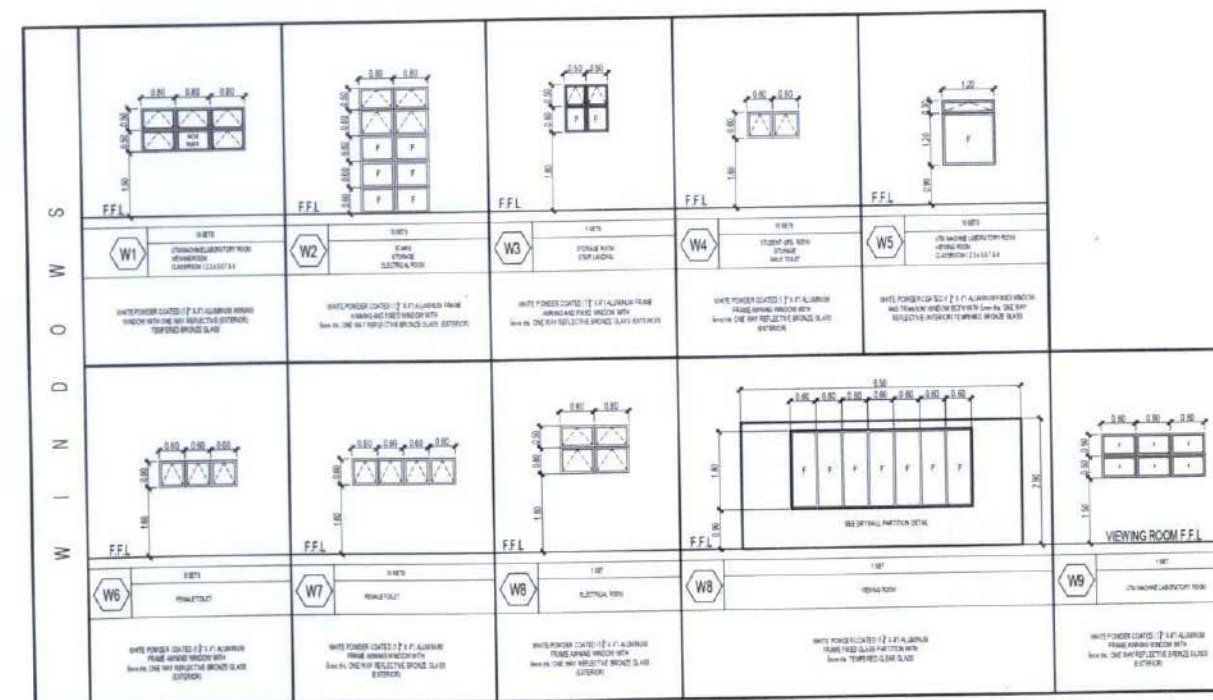
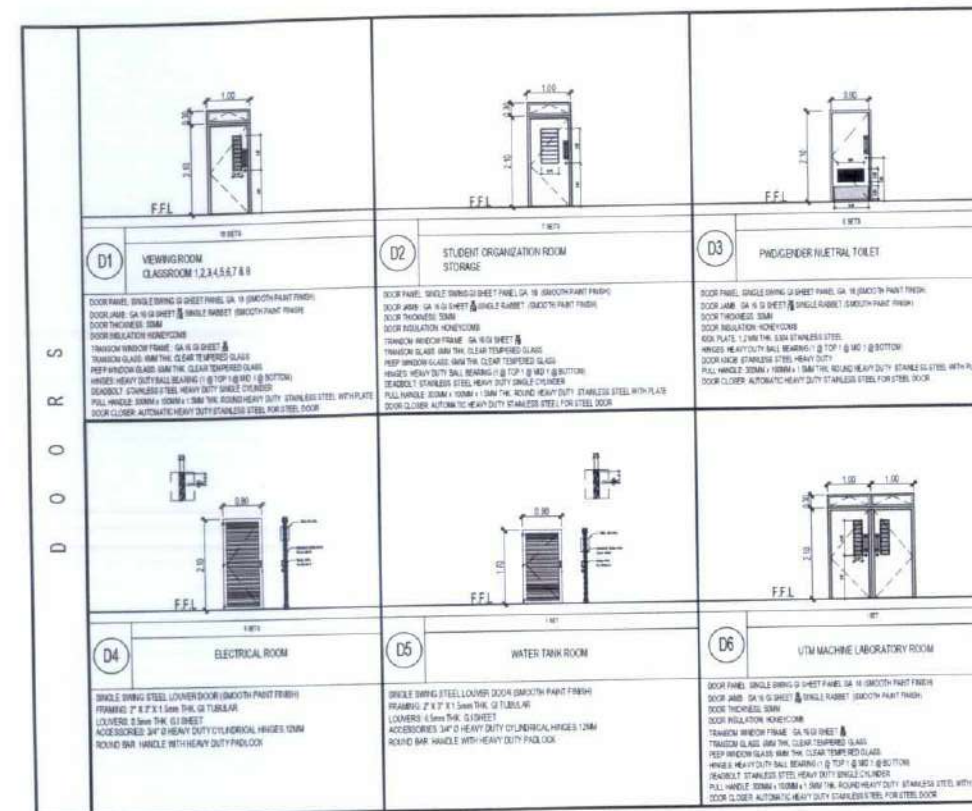
SHEET CONTENTS:
AS SHOWN
DATE: 2025

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A-16
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16/119

MARK	DESCRIPTION
WF-1	OFF WHITE SEMI GLOSS LATEL PARTS (SMOOTH PAINT FINISH)
WF-2	SMOKE GRAY SEMI GLOSS PAINT (SMOOTH PAINT FINISH)
WF-3	TERRACOTA RED SEMI GLOSS PAINT (SMOOTH PAINT FINISH)
WF-4	GRAY SEMI GLOSS PAINT (SMOOTH PAINT FINISH)

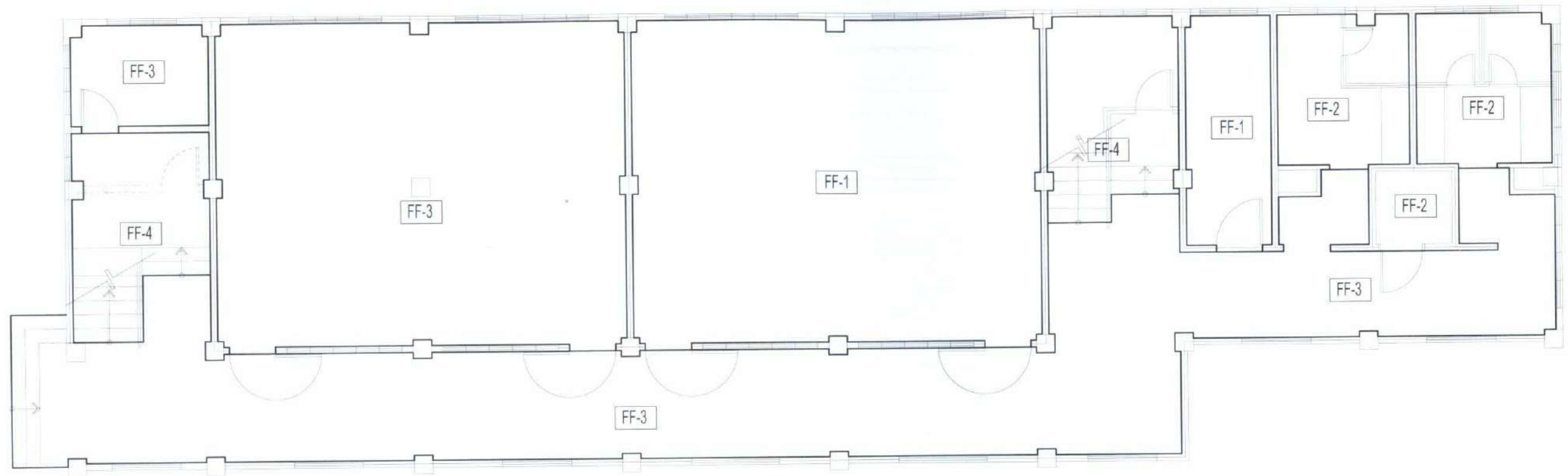


1:125M



SCALE

1:175M



SCHEDULE OF FLOOR FINISHES:

MARK	DESCRIPTION
FF-1	600MM X 600MM PORCELAIN FLOOR TILES
FF-2	600MM X 600MM NON SKID-PORCELAIN FLOOR TILES
FF-3	SMOOTH CEMENT FLOOR FINISH WITH EPOXY PAINT INCLUDING CONCRETE TOPPING (GRAY)
FF-4	#10 PEBBLE WASHOUT FINISH

GROUND FLOOR FINISH FLOOR LAYOUT

SCALE

1:100M



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CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
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SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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RECOMMENDING APPROVAL:

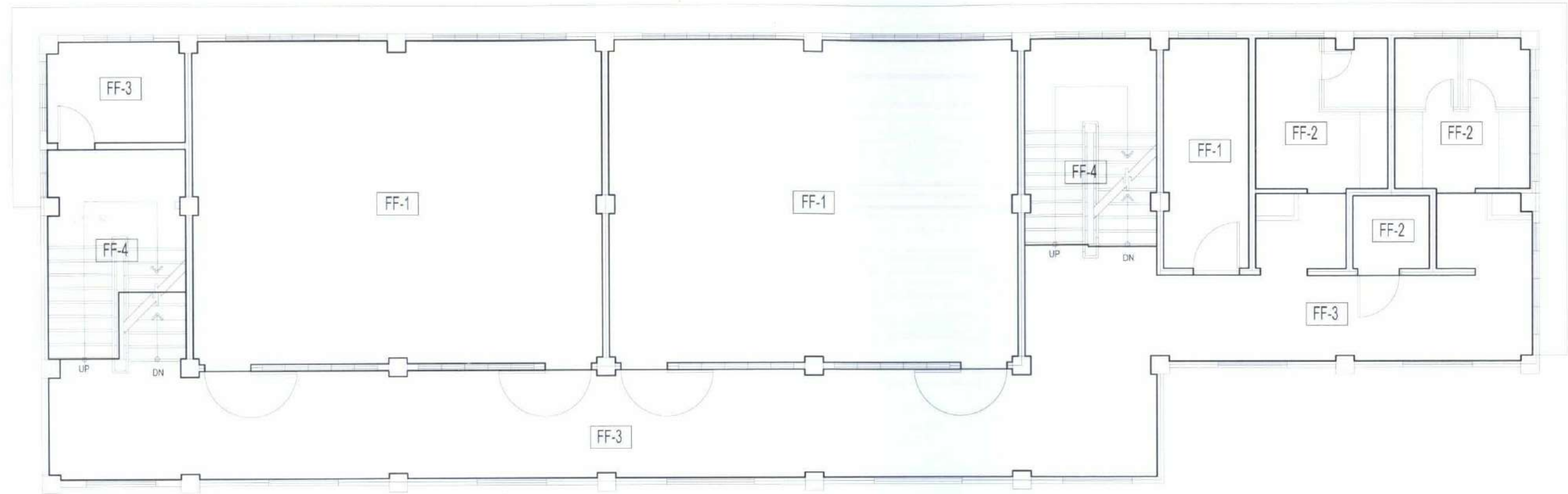
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

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A-18
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18/119



SCHEDULE OF FLOOR FINISHES:

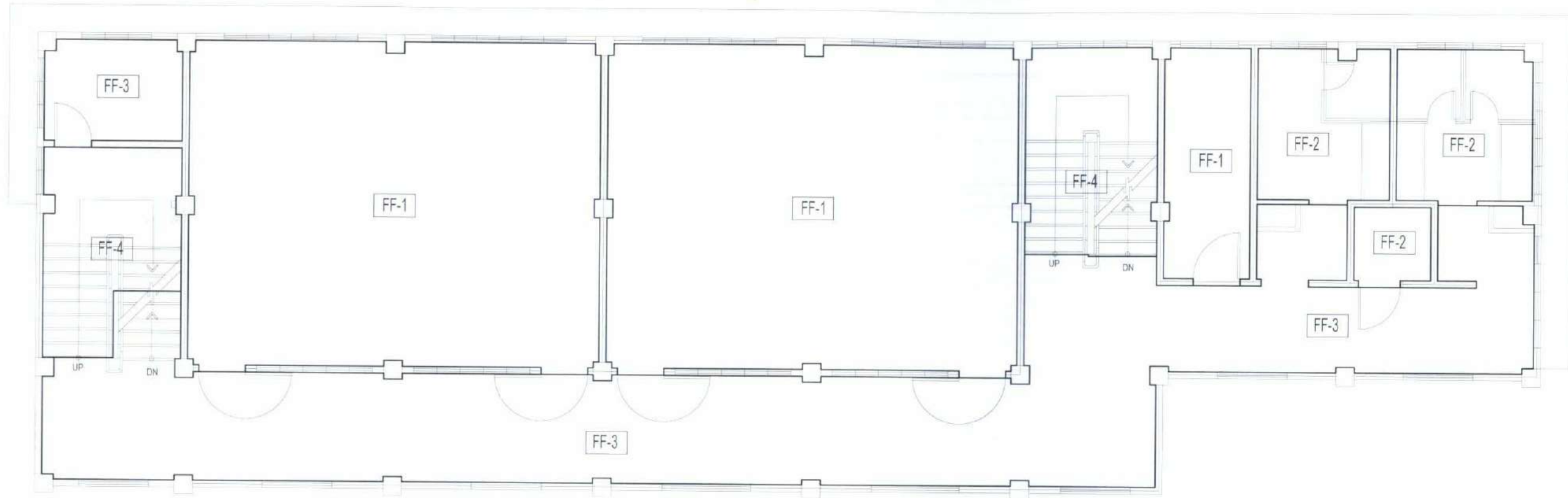
MARK	DESCRIPTION
FF-1	600MM X 600MM PORCELAIN FLOOR TILES
FF-2	600MM X 600MM NON SKID-PORCELAIN FLOOR TILES
FF-3	SMOOTH CEMENT FLOOR FINISH WITH EPOXY PAINT INCLUDING CONCRETE TOPPING (GRAY)
FF-4	#10 PEBBLE WASHOUT FINISH

THIRD FLOOR FINISH FLOOR LAYOUT

SCALE

1:100M

  TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2306	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	AR. MARK ANTHONY L. PUNZALAN ARCHITECT, OFDM-PDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. MIRIAM S. BALVEZ DEAN, COE	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	DR. ARMOUD E. VELASCO PRESIDENT	AS SHOWN DATE: 2025	A-20 PAGE NO: 20/119



SCHEDULE OF FLOOR FINISHES:

MARK	DESCRIPTION
FF-1	600MM X 600MM PORCELAIN FLOOR TILES
FF-2	600MM X 600MM NON SKID-PORCELAIN FLOOR TILES
FF-3	
FF-4	#10 PEBBLE WASHOUT FINISH

FOURTH FLOOR FINISH FLOOR LAYOUT

SCALE

1:100M



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SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
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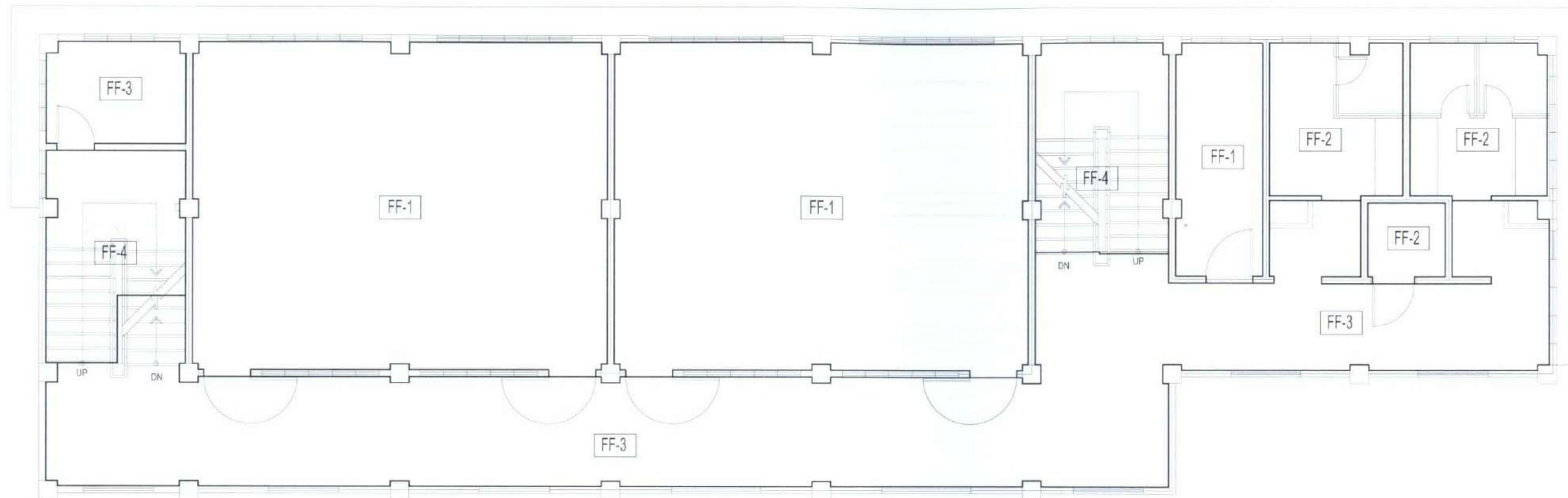
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RECOMMENDING APPROVAL:
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AS SHOWN
DATE: 2025

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21/119



SCHEDULE OF FLOOR FINISHES:

MARK	DESCRIPTION
FF-1	600MM X 600MM PORCELAIN FLOOR TILES
FF-2	600MM X 600MM NON SKID-PORCELAIN FLOOR TILES
FF-3	SMOOTH CEMENT FLOOR FINISH WITH EPOXY PAINT INCLUDING CONCRETE TOPPING (GRAY)
FF-4	#10 PEBBLE WASHOUT FINISH

FIFTH FLOOR FINISH FLOOR LAYOUT

SCALE

1:100M



TARLAC STATE UNIVERSITY
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AR. ARLEN M. GUIEB
DIRECTOR, OFDM

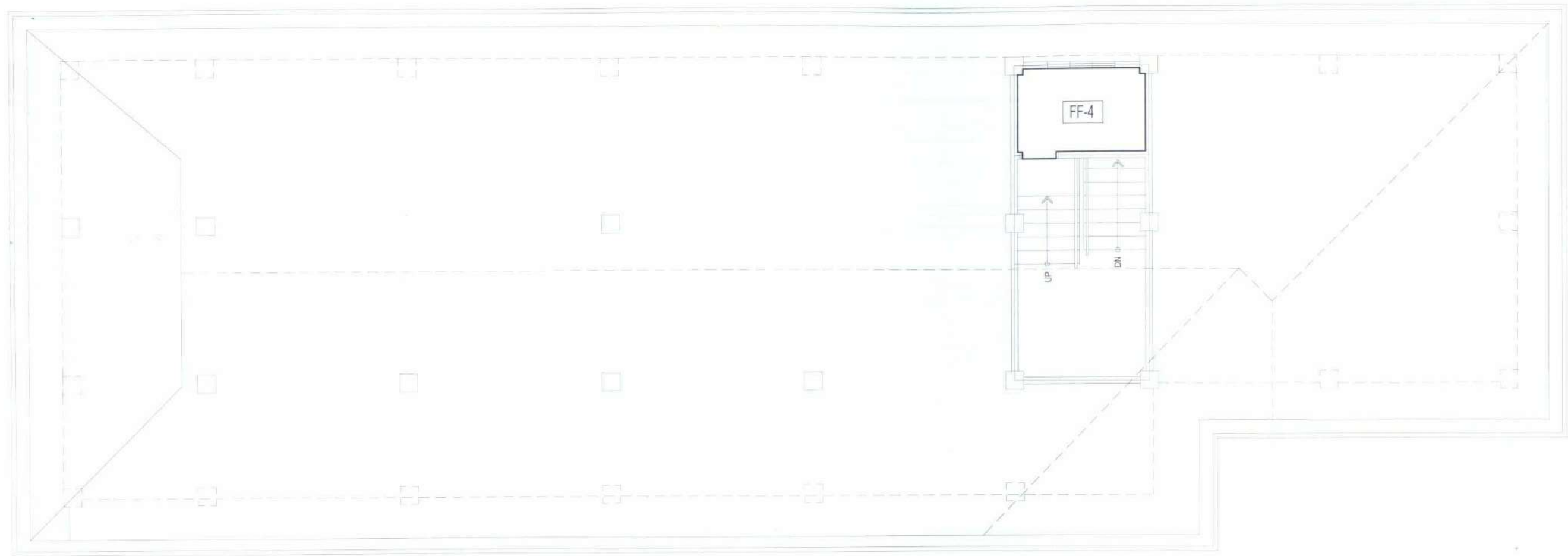
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

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PAGE NO.:
22/119



SCHEDULE OF FLOOR FINISHES:

MARK	DESCRIPTION
FF-1	600MM X 600MM PORCELAIN FLOOR TILES
FF-2	600MM X 600MM NON SKID-PORCELAIN FLOOR TILES
FF-3	SMOOTH CEMENT FLOOR FINISH WITH EPOXY PAINT INCLUDING CONCRETE TOPPING (GRAY)
FF-4	#10 PEBBLE WASHOUT FINISH

MEZZANINE/ROOF DECK FINISH FLOOR LAYOUT

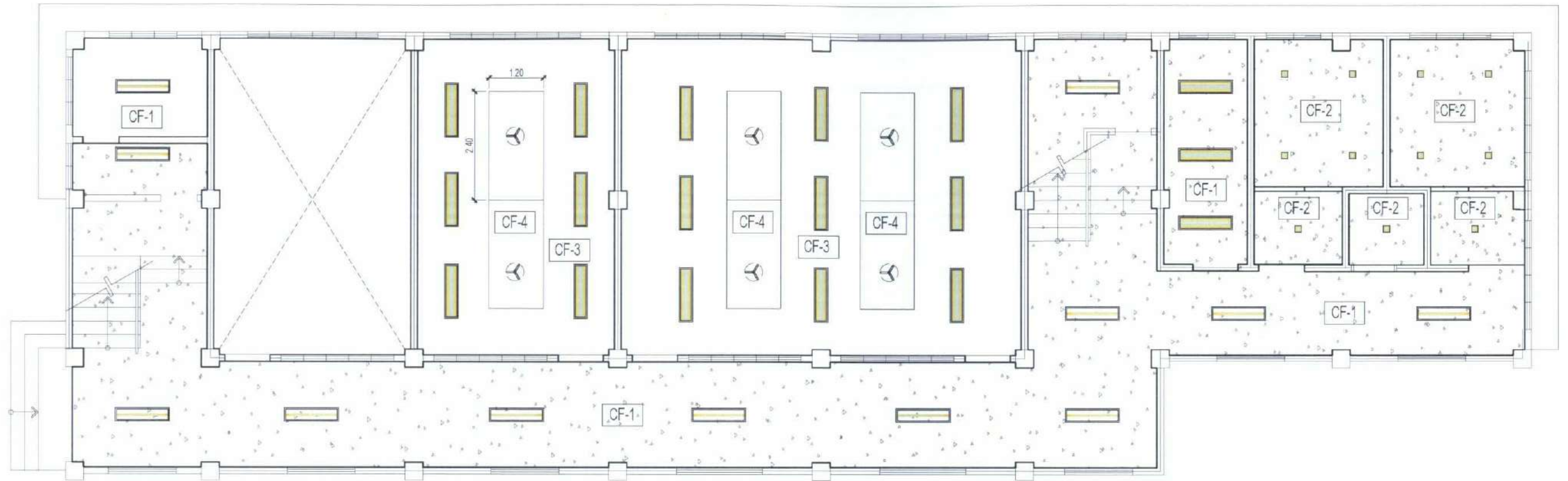
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1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: AR. MARY ANTHONY L. PUNZALAN ARCHITECT, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO.: A-23 PAGE NO.: 23/119
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SCHEDULE OF CEILING FINISHES:

MARK	DESCRIPTION
CF-1	SMOOTH PLAIN CEMENT FINISH (OFF-WHITE SEMI-GLOSS LATEX PAINT)
CF-2	4.5MM THK. FIBER CEMENT BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-3	12MM THK. GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-4	12MM THK. PERFORATED GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-5	0.50 MM THK. PRE-PAINTED SPANDREL INCLUDING FRAMING AND MOULDINGS (OFF-WHITE)

GROUND FLOOR REFLECTED CEILING PLAN

SCALE

1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTHONY L. PUNZALAN
ARCHITECT, OFDM-PDU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

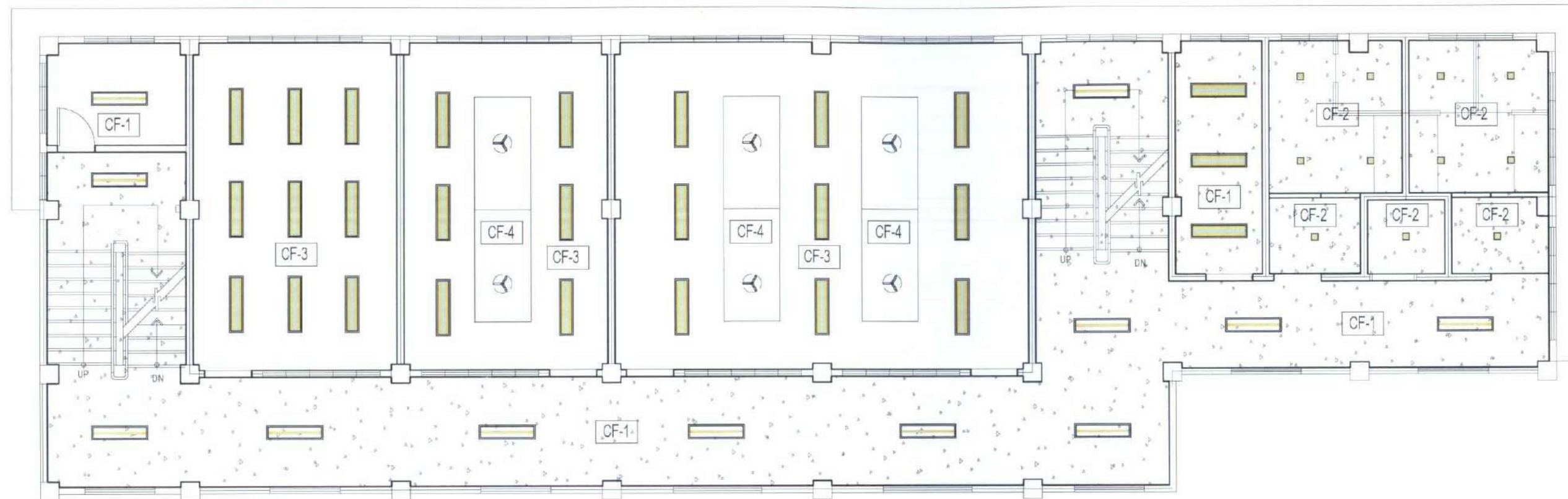
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO.:
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SCHEDULE OF CEILING FINISHES:

MARK	DESCRIPTION
CF-1	SMOOTH PLAIN CEMENT FINISH (OFF WHITE-SEMI GLOSS LATEX PAINT)
CF-2	4.5MM THK. FIBER CEMENT BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-3	12MM THK. GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-4	12MM THK. PERFORATED GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-5	0.50 MM THK. PRE-PAINTED SPANDREL INCLUDING FRAMING AND MOULDINGS (OFF-WHITE)

SECOND FLOOR REFLECTED CEILING PLAN SCALE 1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY
AR. MARK ANTHONY P. PUENZALAN
ARCHITECT, OFDM-POU

CHECKED BY
AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS
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DATE: 2025

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SCHEDULE OF CEILING FINISHES:

MARK	DESCRIPTION
CF-1	SMOOTH PLAIN CEMENT FINISH (OFF WHITE SEMI GLOSS LATEX PAINT)
CF-2	4.5MM THK. FIBER CEMENT BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-3	12MM THK. GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-4	12MM THK. PERFORATED GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-5	0.50 MM THK. PRE-PAINTED SPANDREL INCLUDING FRAMING AND MOULDINGS

THIRD FLOOR REFLECTED CEILING PLAN

SCALE

1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Narullo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. MARK ANTHONY L. RUNZALAN
ARCHITECT, DEOM-POU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. GALVEZ
DEAN, COE

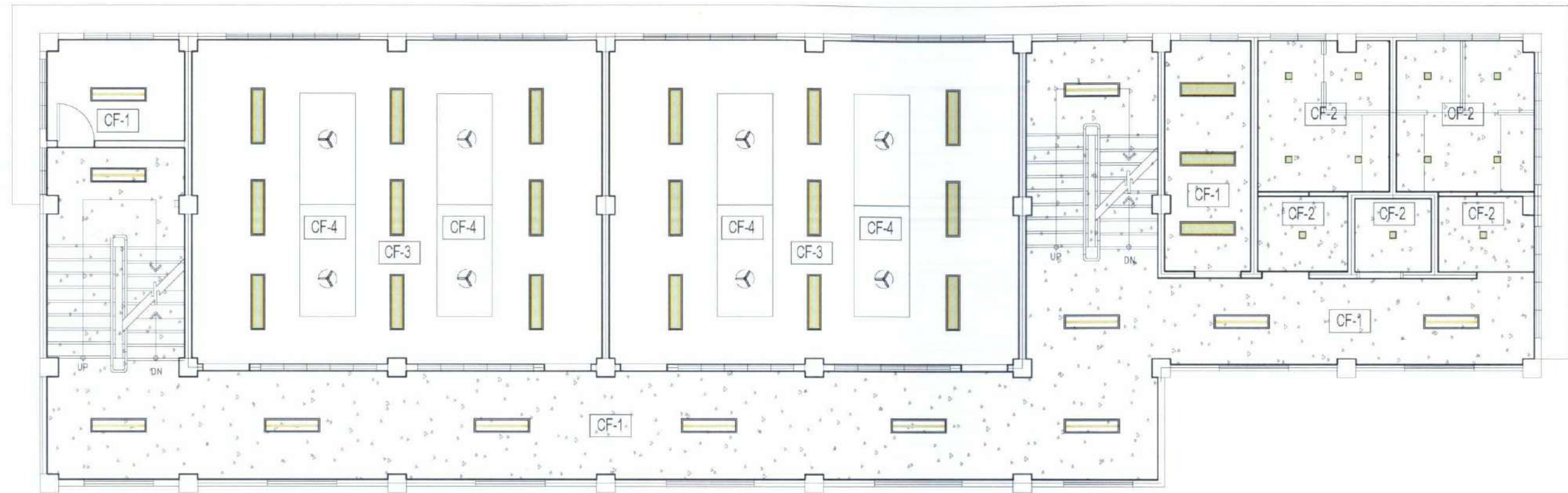
RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS: AS SHOWN
DATE: 2025
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SCHEDULE OF CEILING FINISHES:

MARK	DESCRIPTION
CF-1	SMOOTH PLAIN CEMENT FINISH (OFF WHITE-SEMI GLOSS LATEX PAINT)
CF-2	4.5MM THK. FIBER CEMENT BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-3	12MM THK. GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-4	12MM THK. PERFORATED GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-5	0.50 MM THK. PRE-PAINTED SPANDREL INCLUDING FRAMING AND MOULDINGS (OFF-WHITE)

FOURTH FLOOR REFLECTED CEILING PLAN

SCALE

1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2100

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTHONY L. PUNZALAN
ARCHITECT, OFDM-POL

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-POL

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

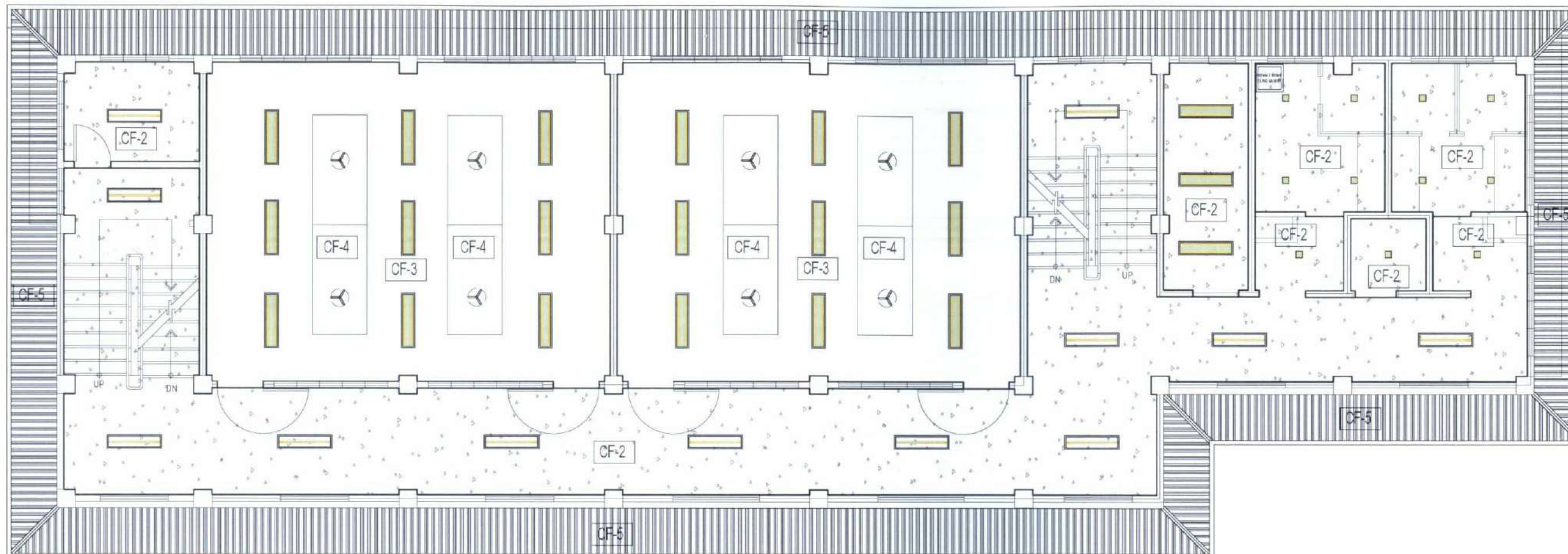
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

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SCHEDULE OF CEILING FINISHES:

MARK	DESCRIPTION
CF-1	SMOOTH PLAIN CEMENT FINISH (OFF WHITE SEMI GLOSS LATEX PAINT)
CF-2	4.5MM THK. FIBER CEMENT BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-3	12MM THK. GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-4	12MM THK. PERFORATED GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-5	0.50 MM THK. PRE-PAINTED SPANDREL INCLUDING FRAMING AND MOULDINGS (OFF-WHITE)

FIFTH FLOOR REFLECTED CEILING PLAN

SCALE

1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTHONY L. RUNZALAN
ARCHITECT, OFDM-PDU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

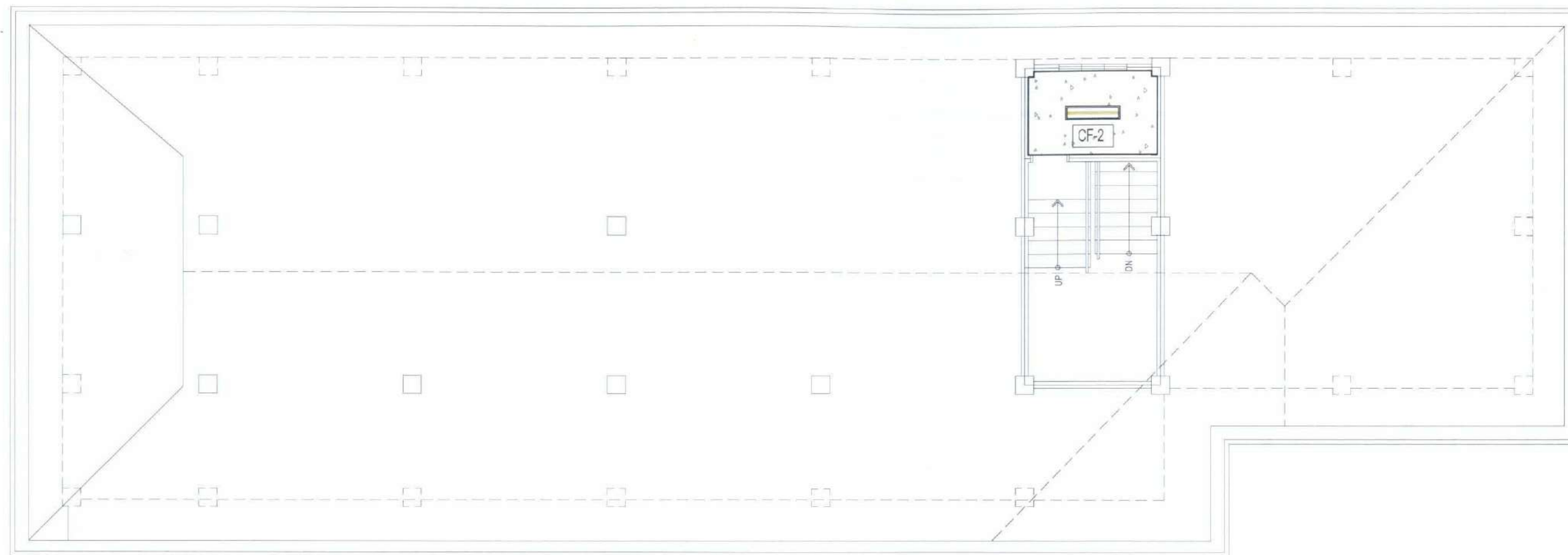
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
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SCHEDULE OF CEILING FINISHES:

MARK	DESCRIPTION
CF-1	SMOOTH PLAIN CEMENT FINISH (OFF WHITE SEMI GLOSS LATEX PAINT)
CF-2	4.5MM THK. FIBER CEMENT BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-3	12MM THK. GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-4	12MM THK. PERFORATED GYPSUM BOARD ON METAL FURRING FRAMING (FLAT LATEX PAINT)
CF-5	0.50 MM THK. PRE-PAINTED SPANDREL INCLUDING FRAMING AND MOULDINGS (OFF-WHITE)

MEZZANINE/ROOF DECK REFLECTED CEILING PLAN

SCALE

1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Remondo Boulevard, Tarlac City, Philippines 2100

PROJECT TITLE:	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:	AR. MARK ANTHONY L. PUNZALAN ARCHITECT, OFDM-PO
--------------	--

CHECKED BY:	AR. CHERRY L. FABIANES HEAD, OFDM-POU
-------------	--

CERTIFIED BY:	AR. ARLEN M. GUIEB DIRECTOR, OFDM
---------------	--------------------------------------

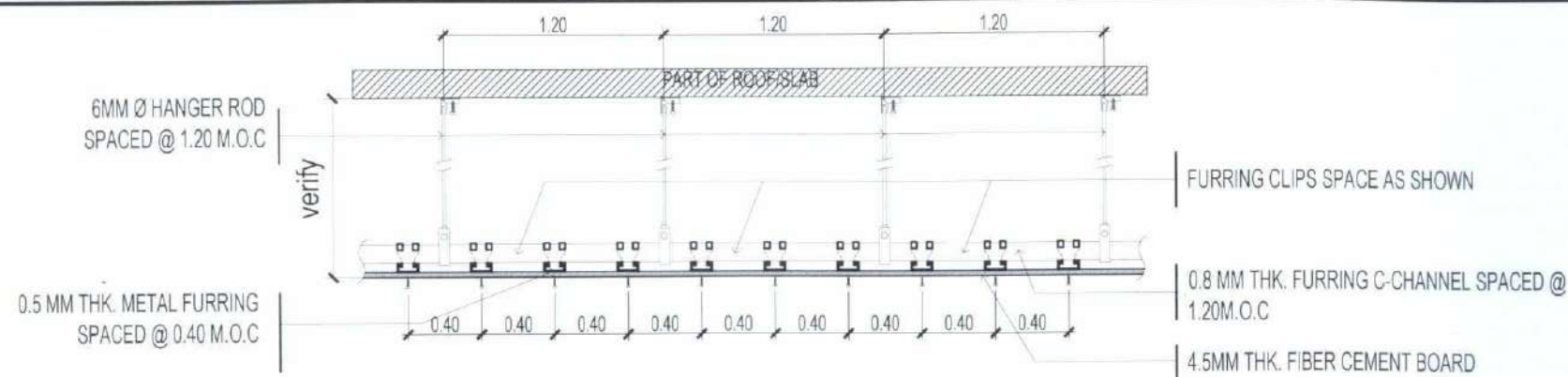
REQUESTING OFFICE:	DR. MIRIAM S. SALVEZ DEAN, COE
--------------------	-----------------------------------

RECOMMENDING APPROVAL:	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION
------------------------	--

APPROVED:	DR. ARNOLD E. VELASCO PRESIDENT
-----------	------------------------------------

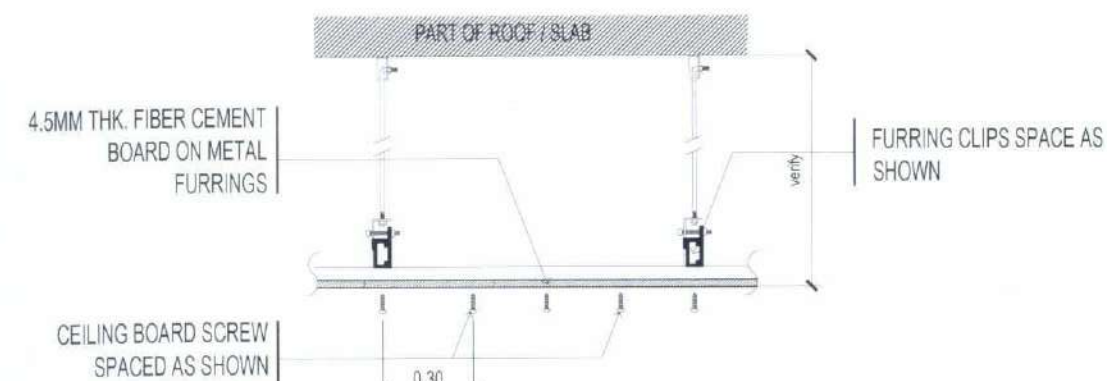
SHEET CONTENTS:	AS SHOWN
DATE:	2025

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SECTION DETAIL A

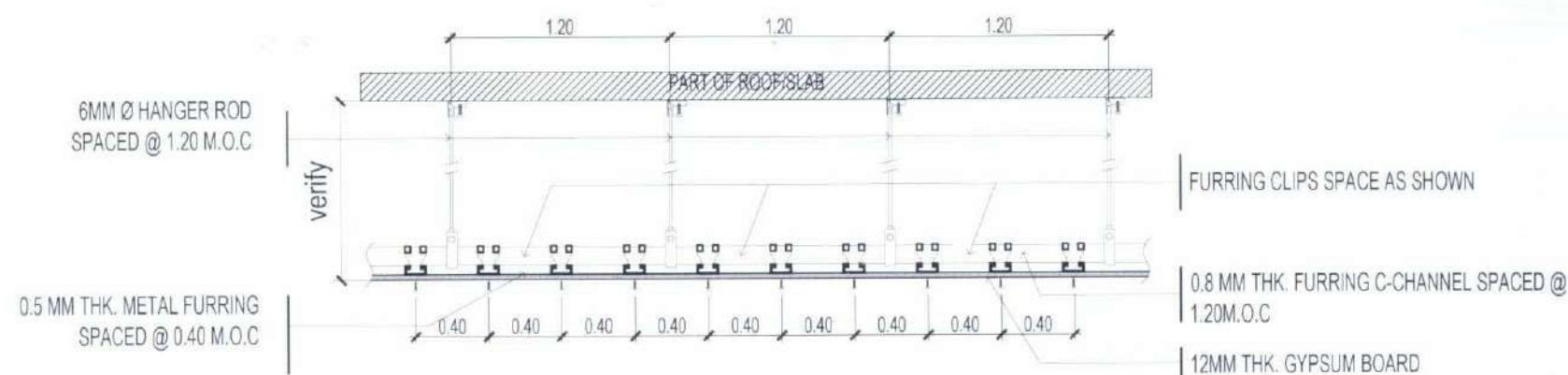
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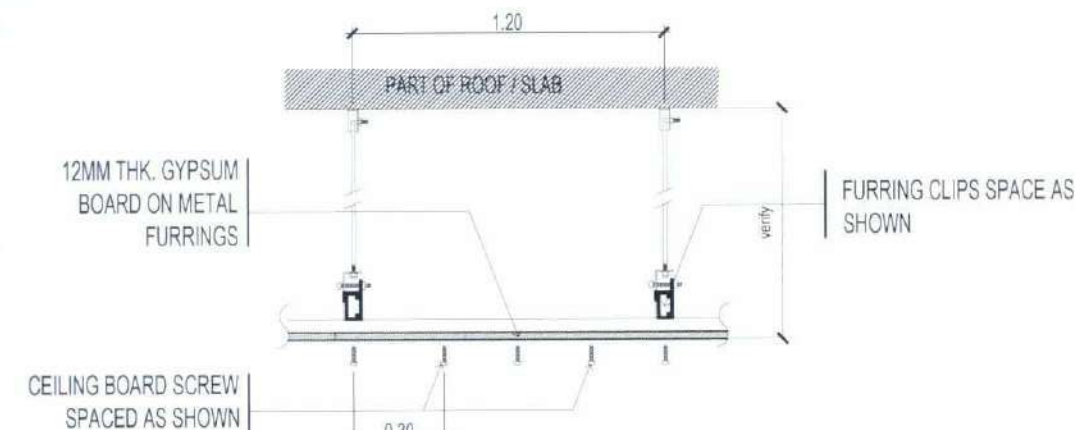
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FIBER CEMENT BOARD CEILING DETAIL



SECTION DETAIL A

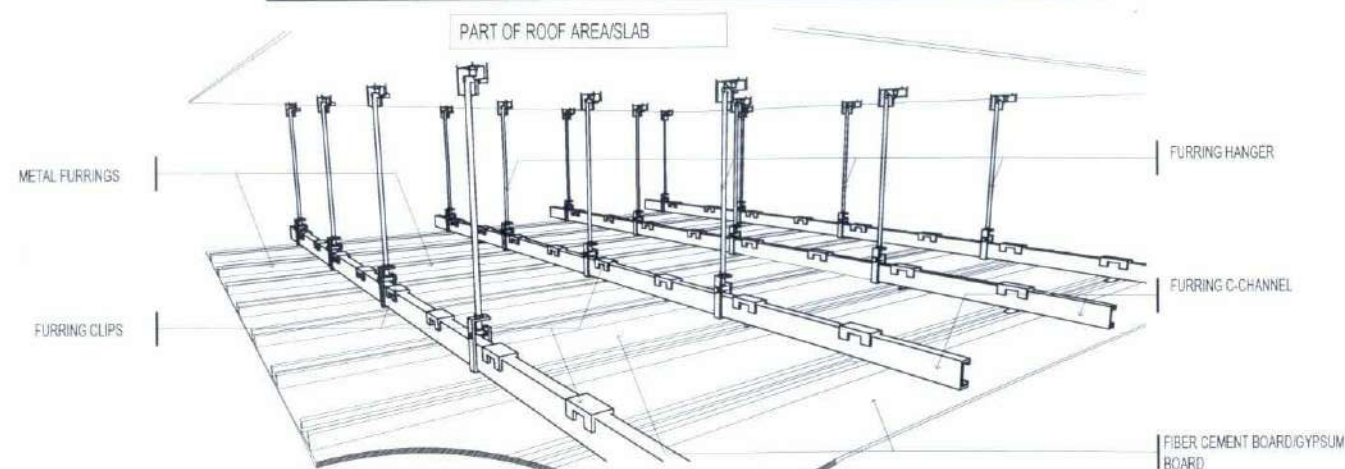
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SECTION DETAIL B

SCALE 1:40MTS.

GYPSUM BOARD CEILING DETAIL



CEILING ISOMETRIC DETAIL

NTS.

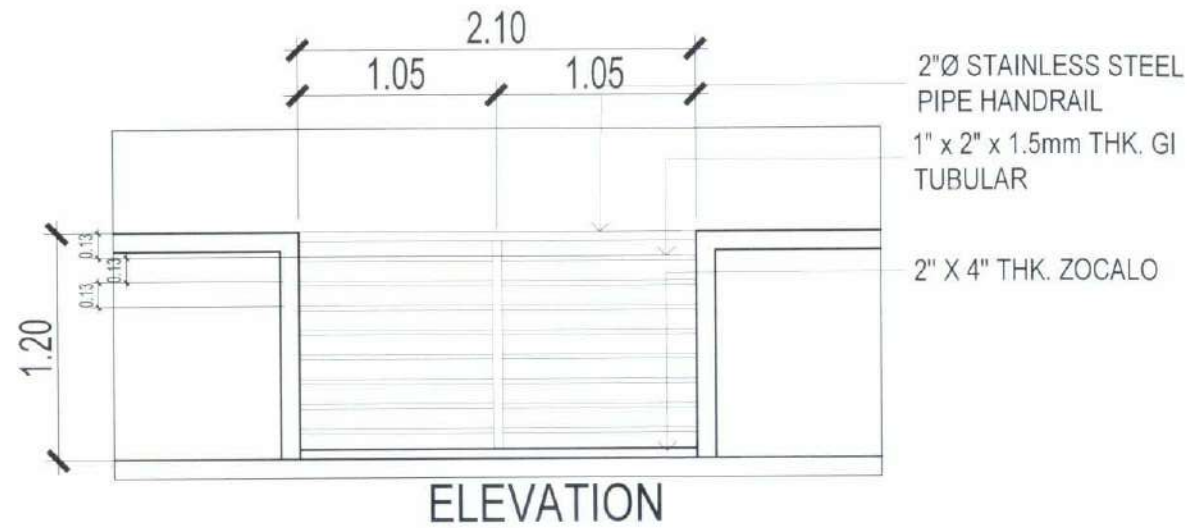


TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY:	AR. MARK ANTHONY L. PUNZALAN ARCHITECT, OFDM	CHECKED BY:	AR. CHERRY L. FABIANES HEAD, OFDM/PDU	CERTIFIED BY:	AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:	DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL:	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED:	DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS:	AS SHOWN	SHEET NO:	A-30
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY													DATE: 2025		PAGE NO:	30/119

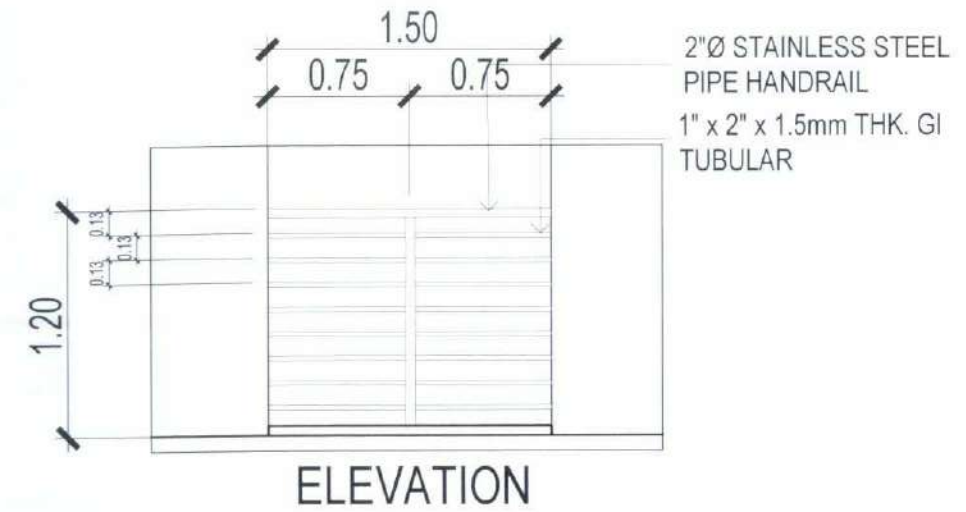
NOTE:

- APPLY 2 COATS OF EPOXY PRIMER ON ALL STEEL FRAME MEMBERS INCLUDING WELDING CONNECTIONS.
- APPLY 2 TOP COATS OF QUICK DRY ENAMEL, (BLACK)
- ALL STEEL MEMBERS SHOULD BE SMOOTH PAINT FINISH.



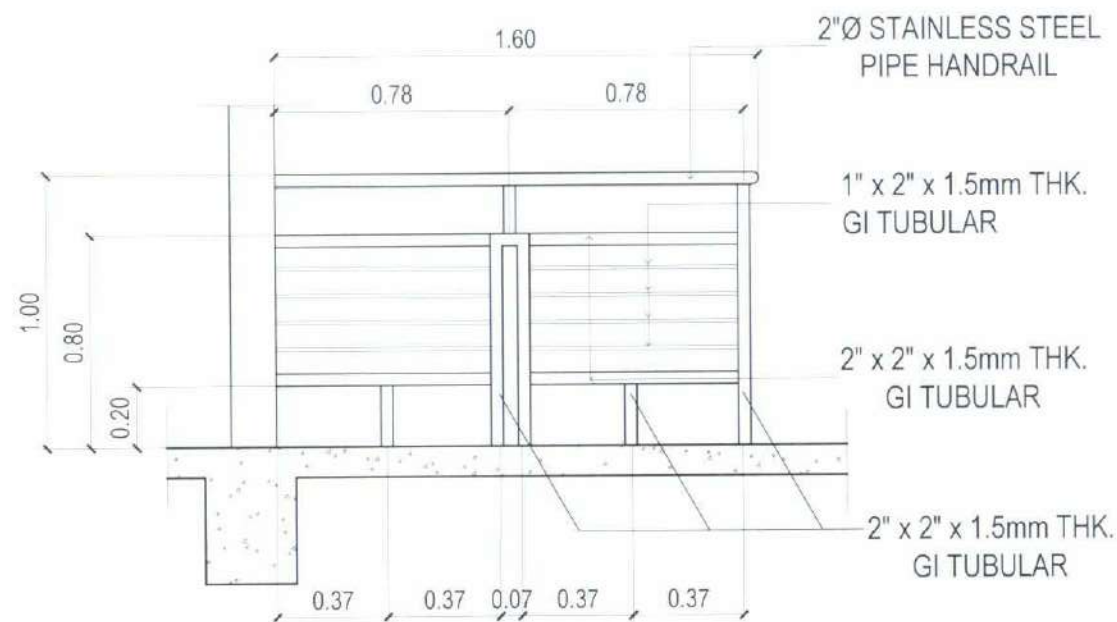
TYPICAL RAILING DETAIL A

SCALE 1:40M



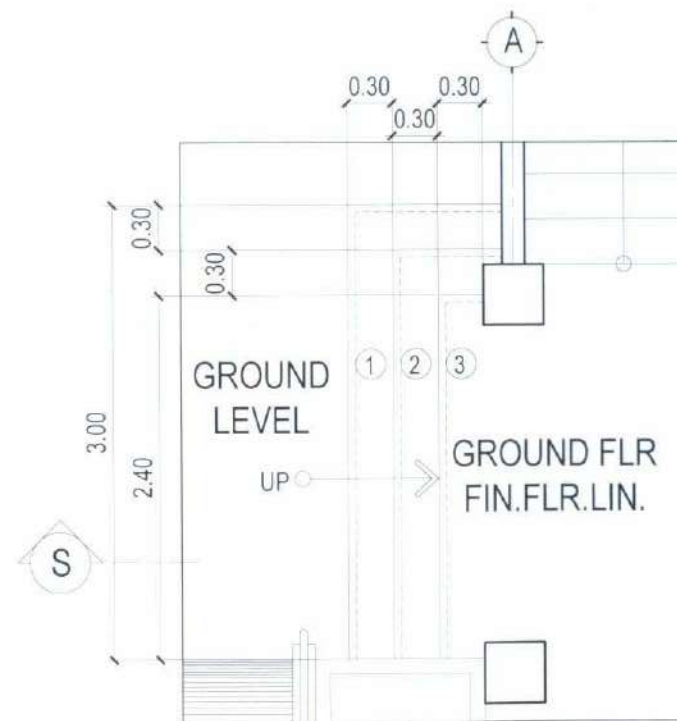
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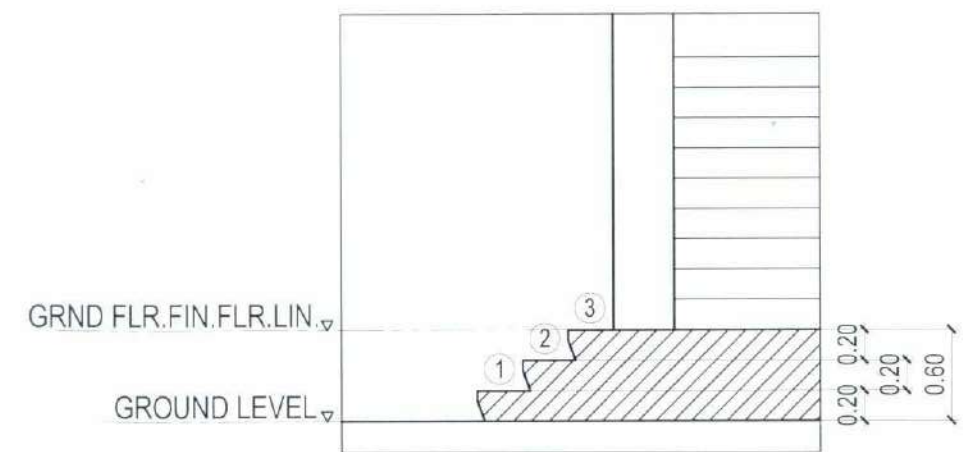
RAILING DETAIL C

SCALE 1:40M



STAIR PLAN @ MODULE A

SCALE 1:50M



SECTION THRU-S

SCALE 1:50M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTHONY L. PUNZALAN
ARCHITECT, OFDM-DOU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-DOU

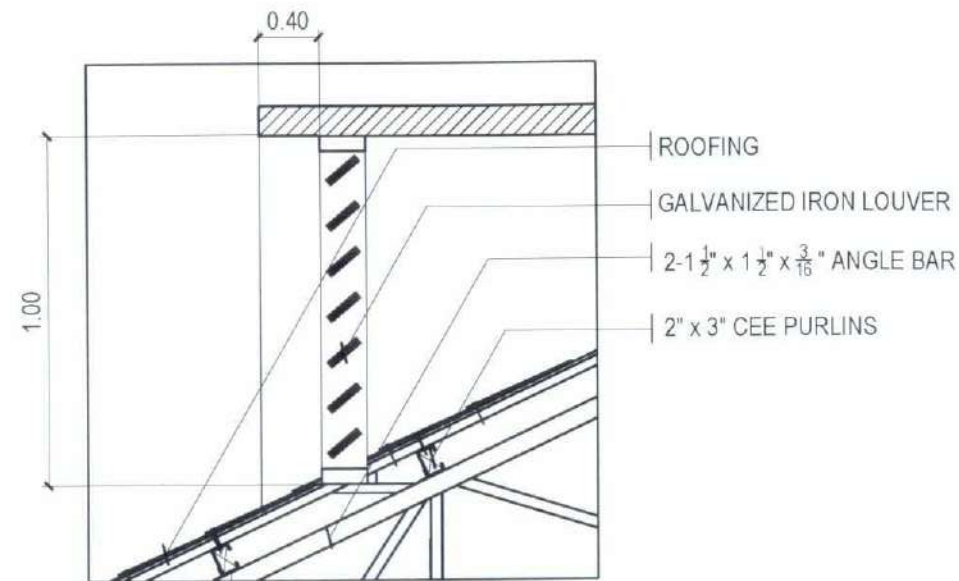
CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

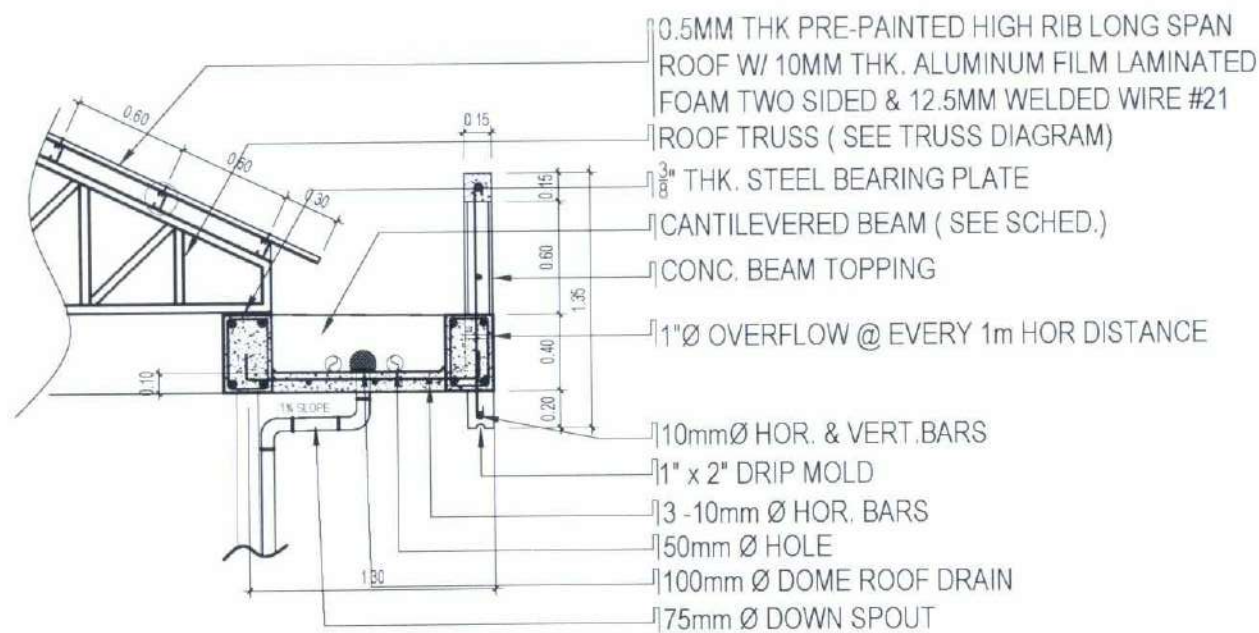
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ROOF LOUVER DETAIL

SCALE

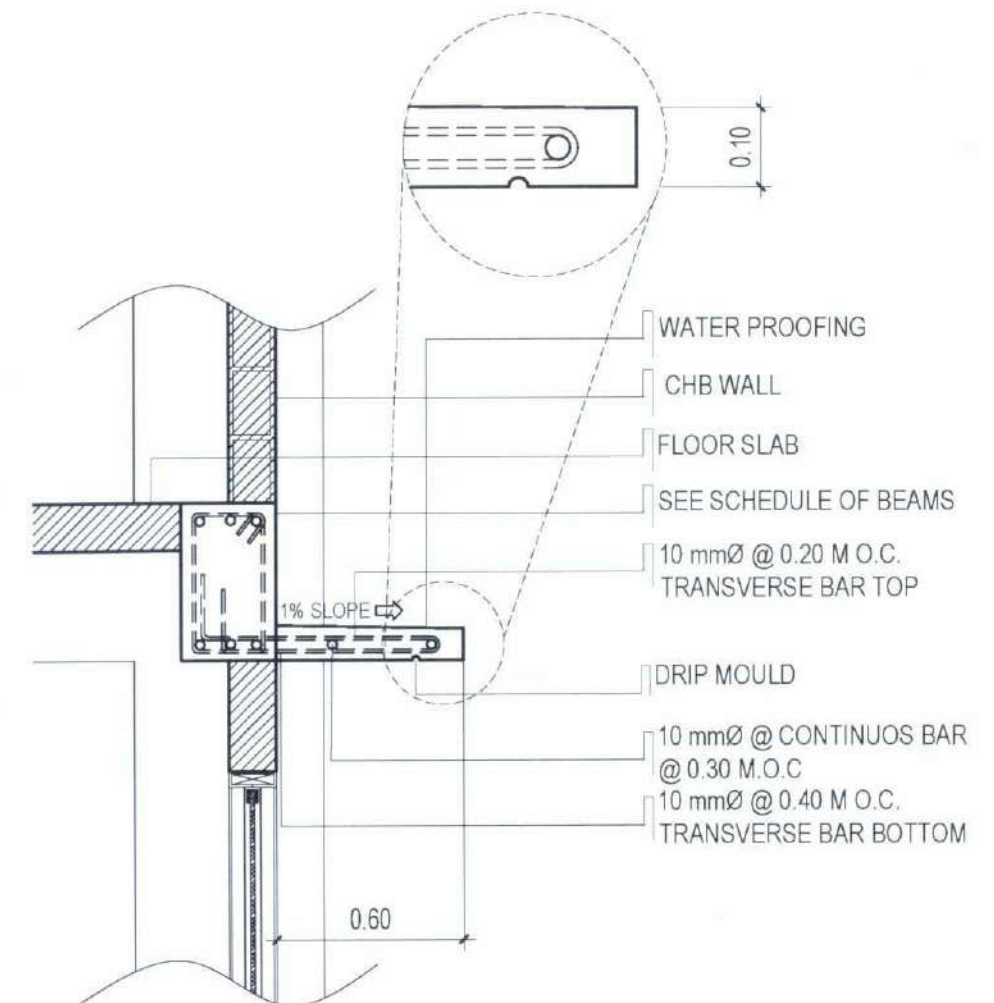
1:40 M



CONCRETE GUTTER DETAIL

SCALE

1:40 M



TYPICAL LEDGE DETAIL

SCALE

1:15 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTONIO L. PUNZALAN
ARCHITECT, OFDM-POU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

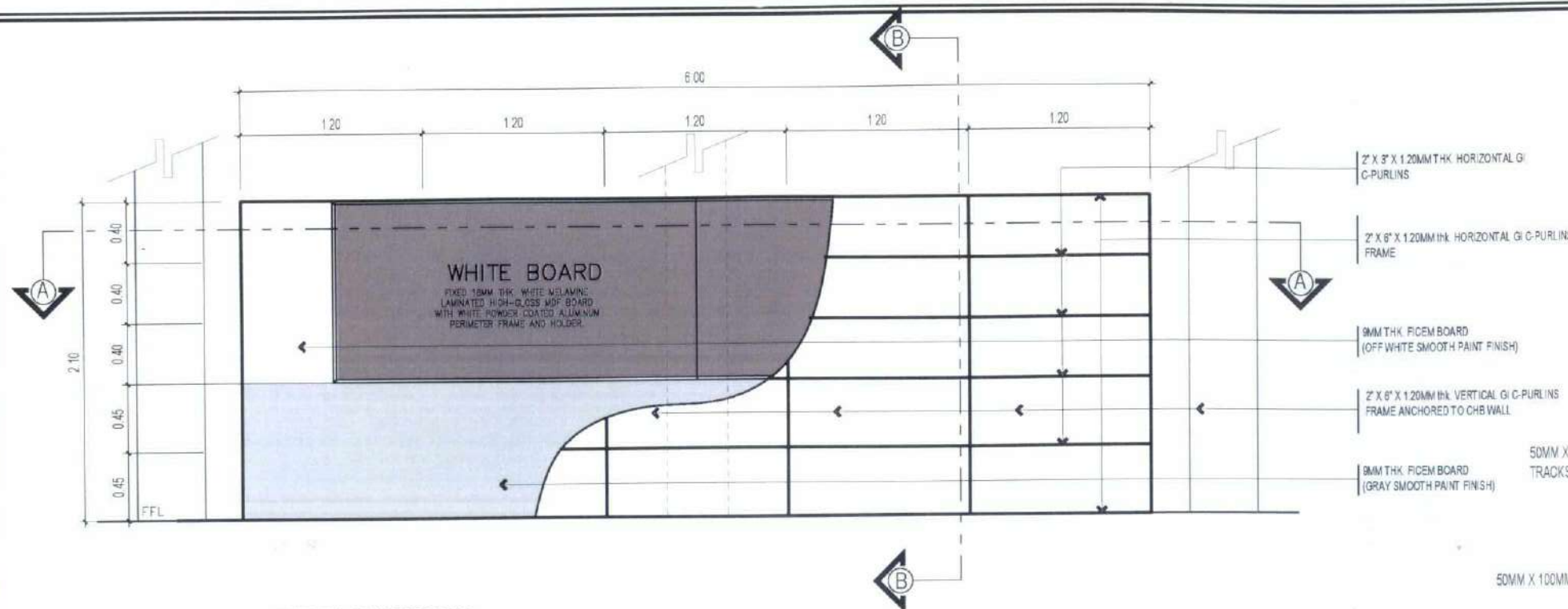
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

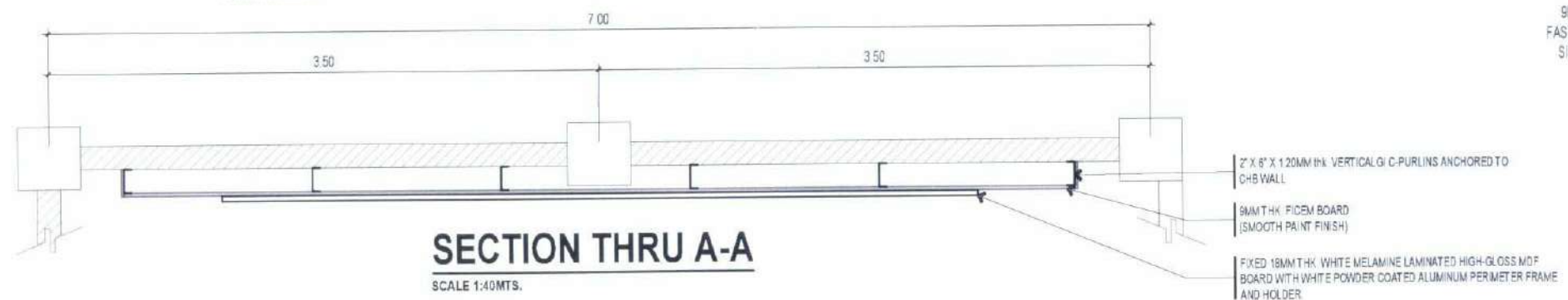
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

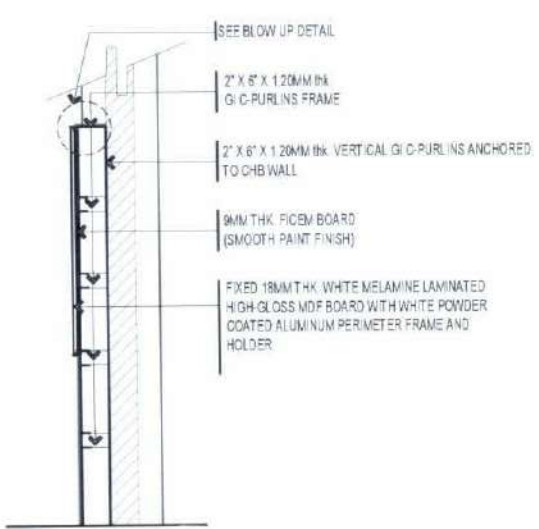
SHEET NO:
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32/119



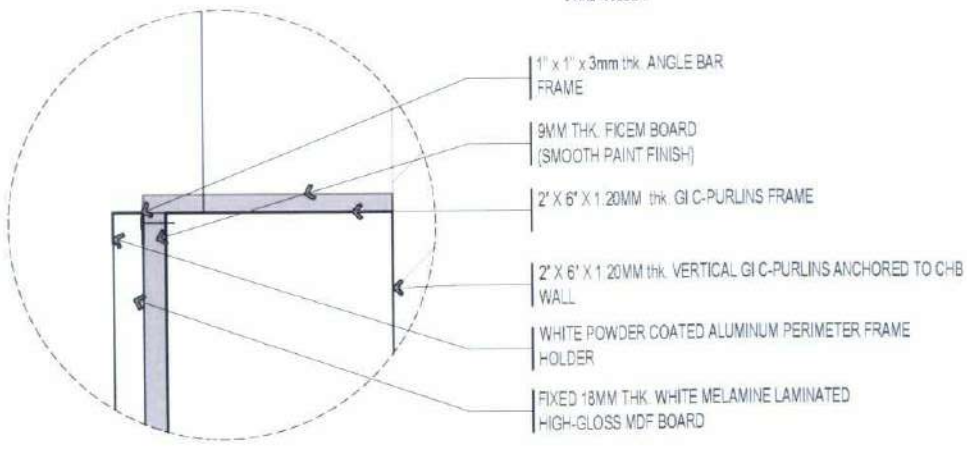
TYPICAL CLASSROOMS
WHITE BOARD DRYWALL SECTION DETAIL
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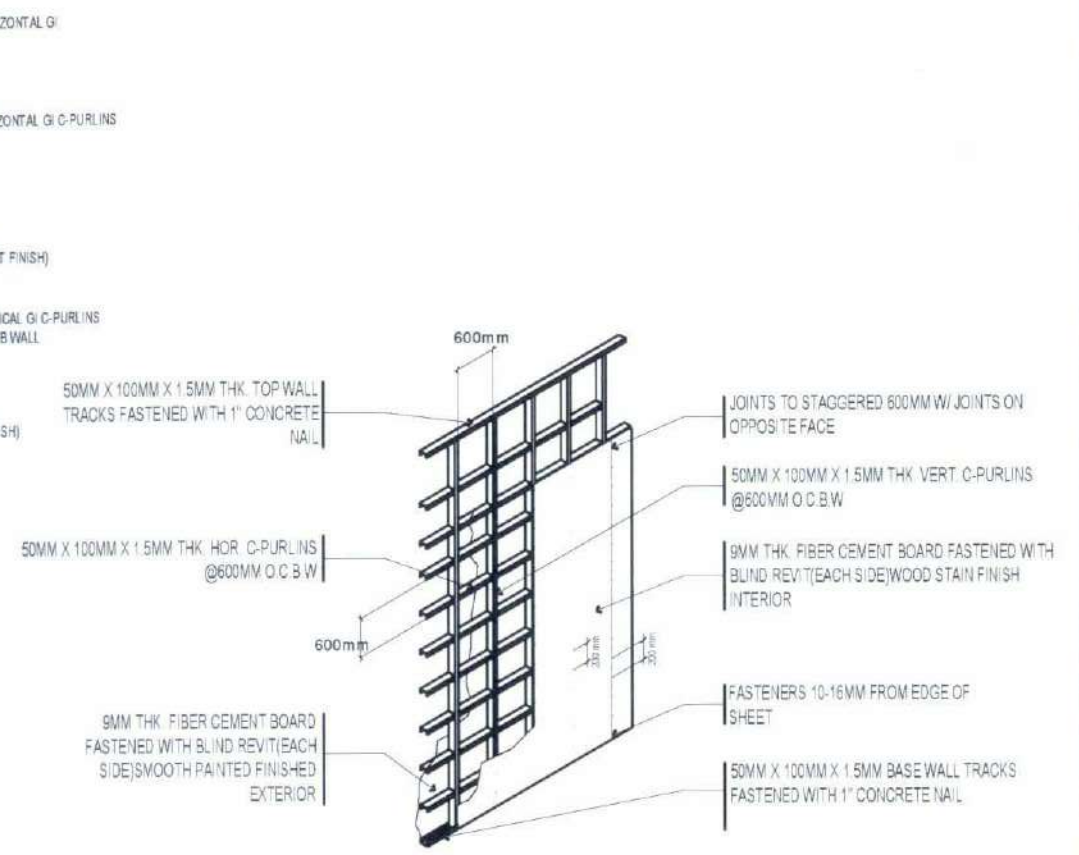
SECTION THRU A-A
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SECTION THRU B-B
 SCALE 1:40MTS.



BLOW-UP DETAIL
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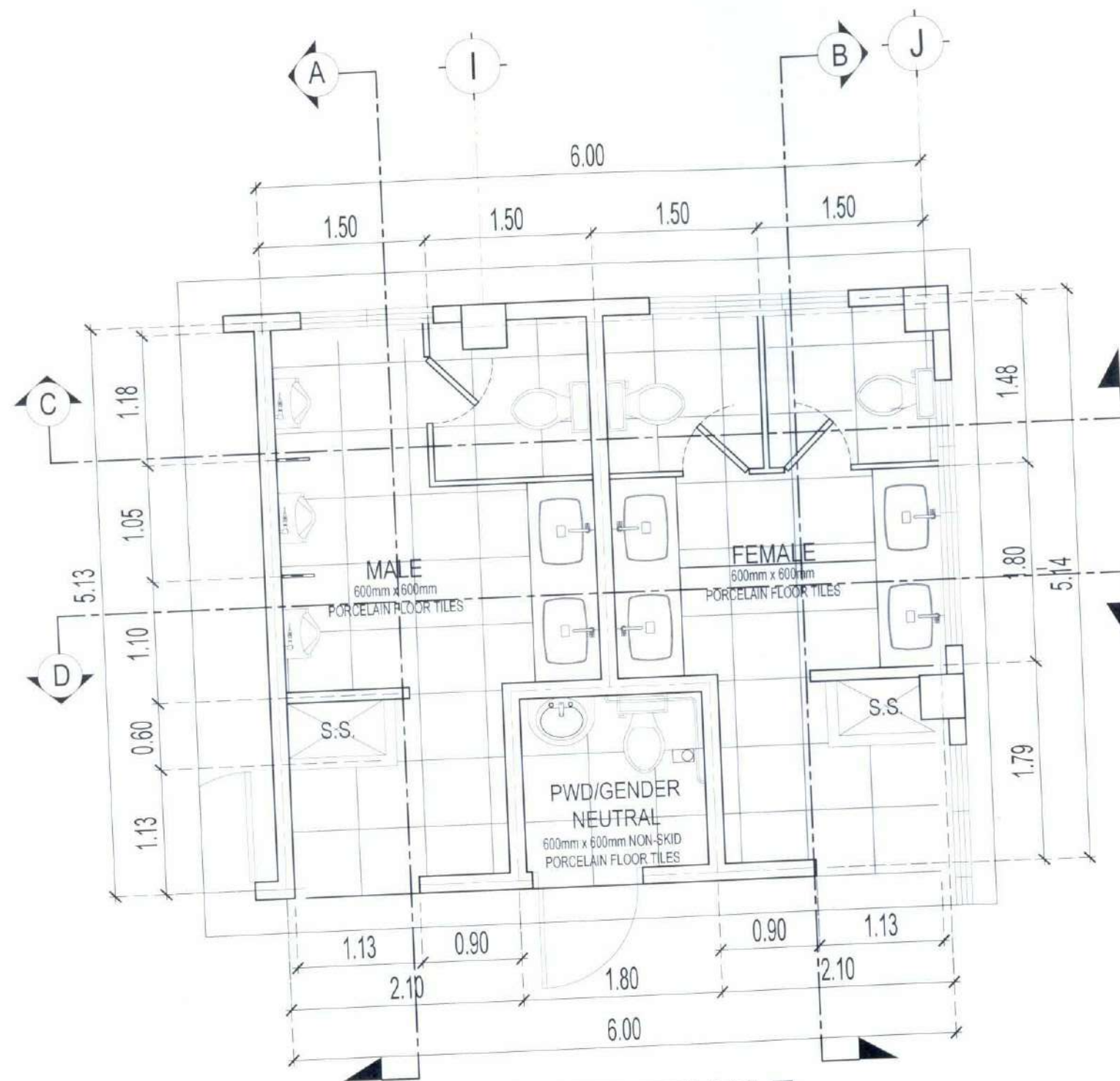


VIEWING ROOM DRYWALL SECTION DETAIL
 NTS



TYPICAL ROOM SIGNAGE DETAIL
 SCALE 1:10MTS.

	TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Roadward, Tarlac City, Philippines 2300	PROJECT TITLE CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1) PROJECT LOCATION SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY AR. MARK ANTHONY LAPUNZALAN ARCHITECT/ O.P.D.U.	CHECKED BY AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO: A-33 PAGE NO: 33/119
--	--	--	---	--	--	--	---	--	---	---



MALE AND FEMALE TOILET TYPICAL PLAN

SCALE 1:50M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Rampala Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. ALESSANDRO B. CALUYA
ARCHITECT, OFDM-POL

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-POL

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

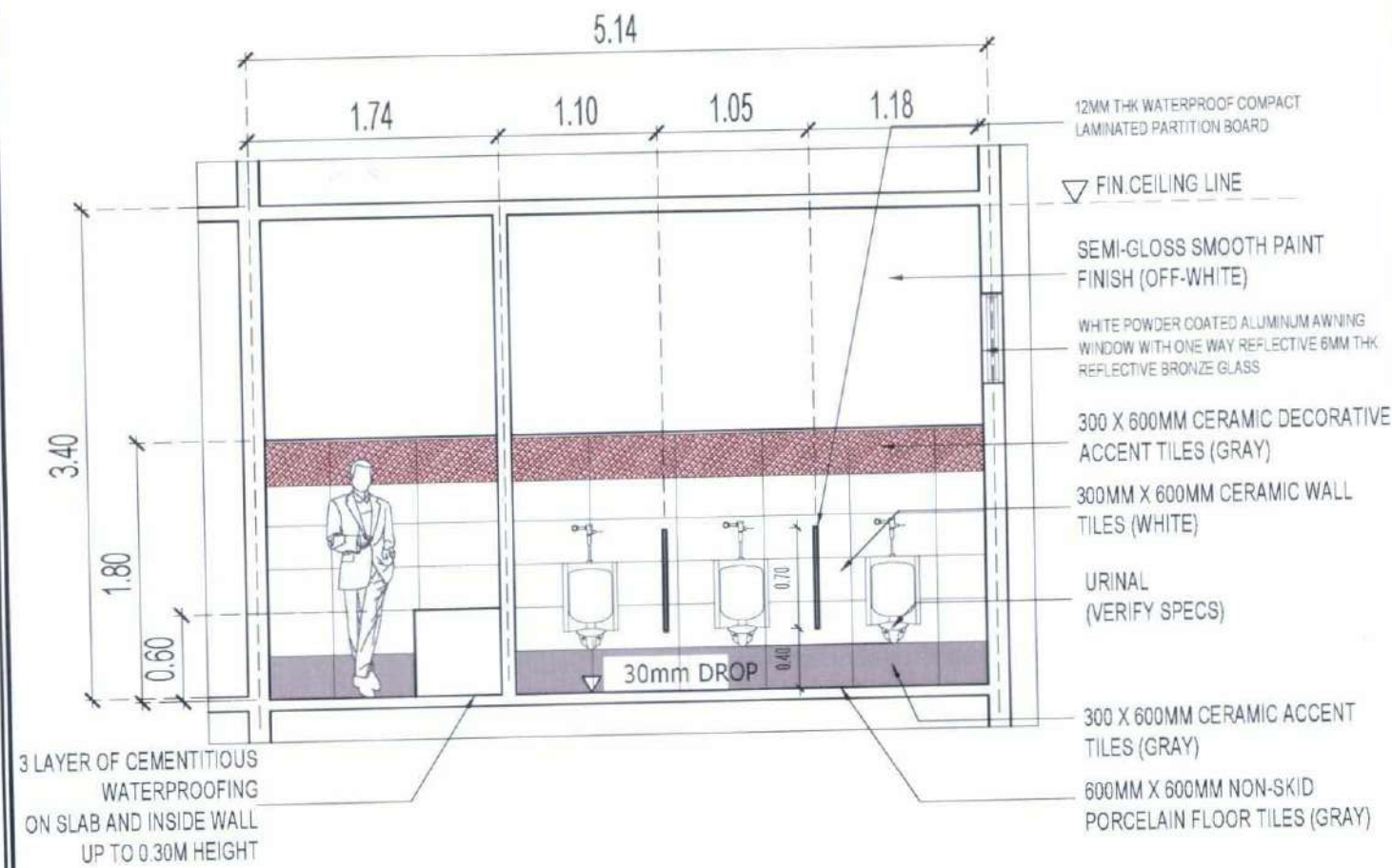
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

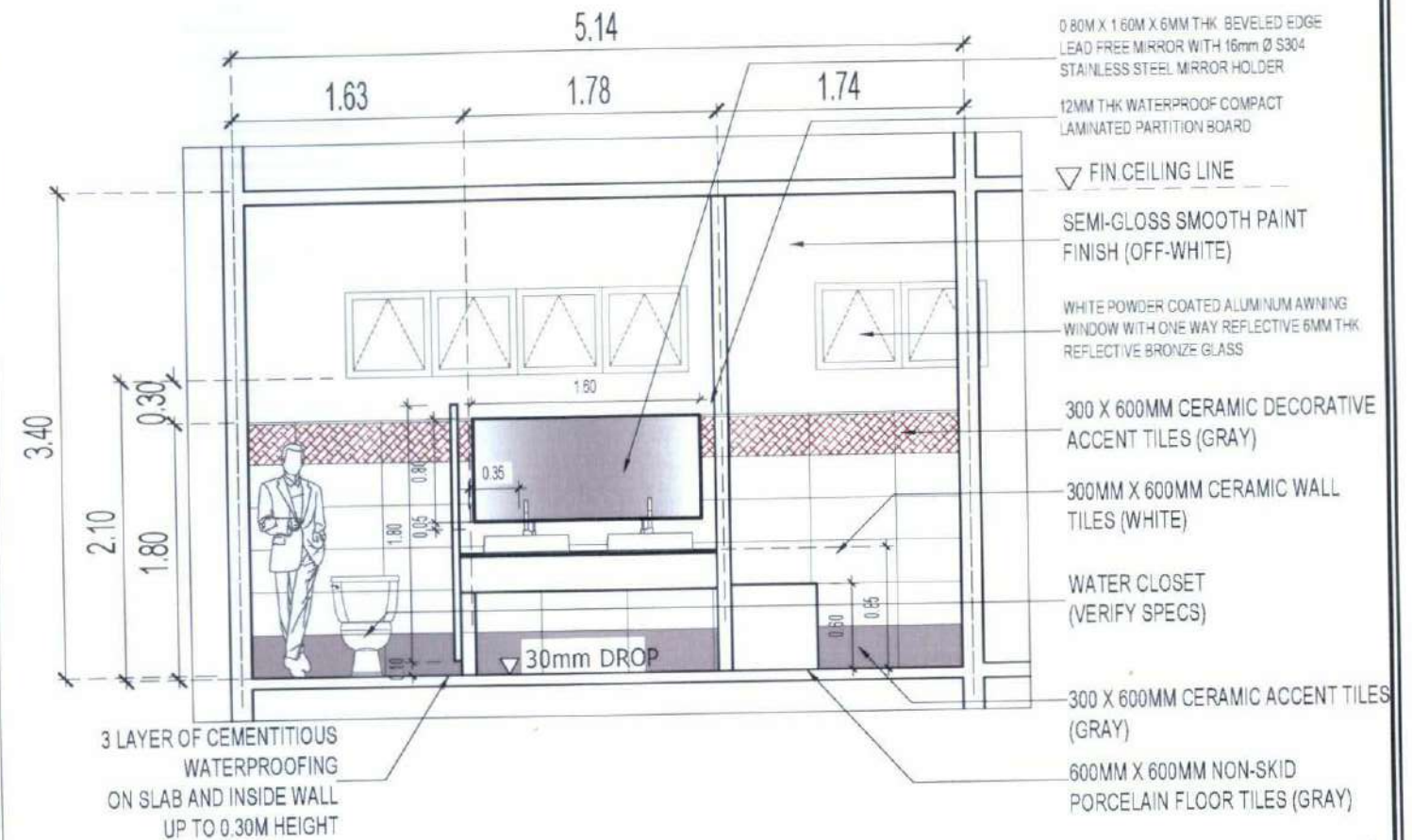
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

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A-34
PAGE NO:
34/119



SECTIONAL ELEVATION @ A
SCALE 1:50M



SECTIONAL ELEVATION @ B
SCALE 1:50M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. ULYSSES B. CALUYA
ARCHITECT, OFDM-PDM

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-PDM

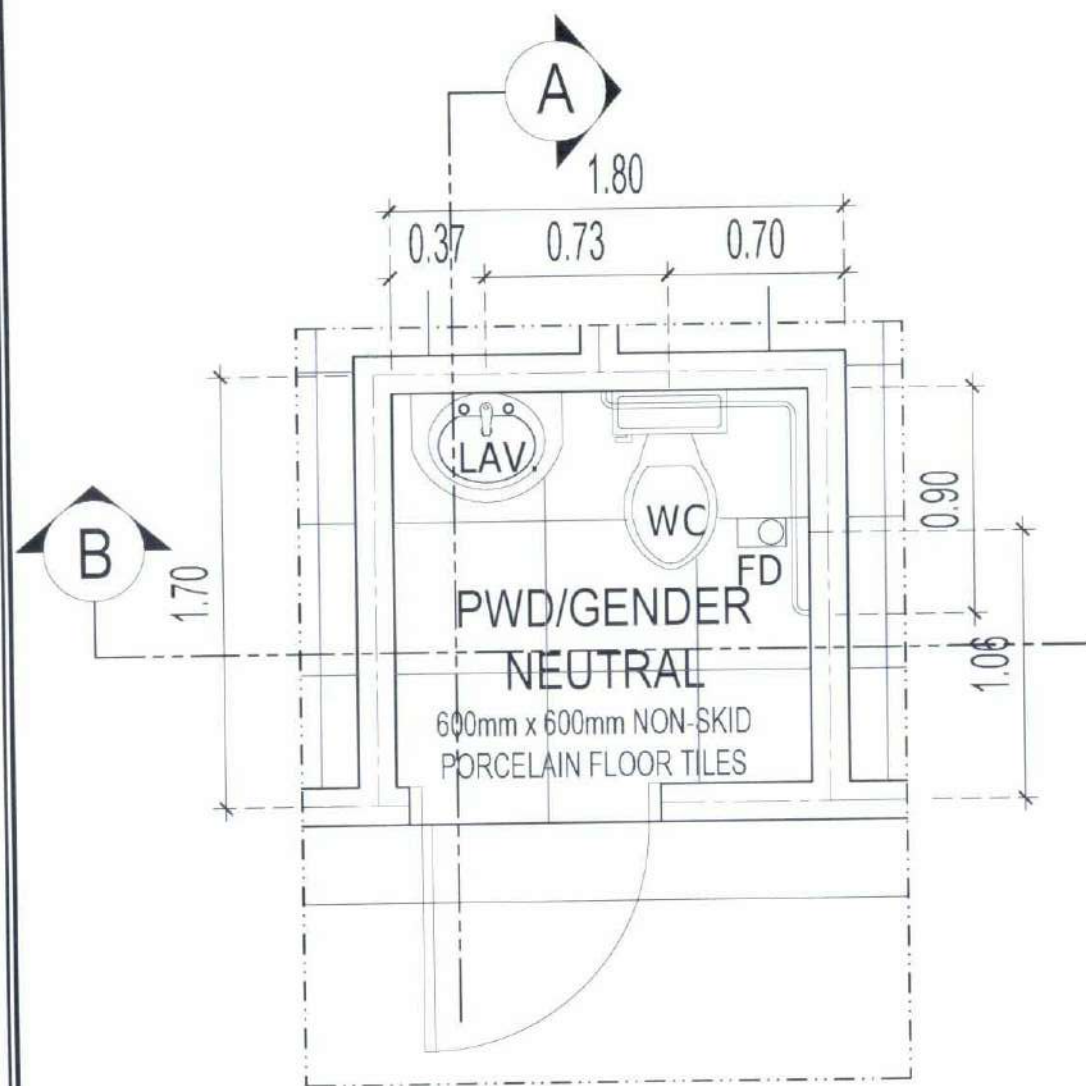
CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

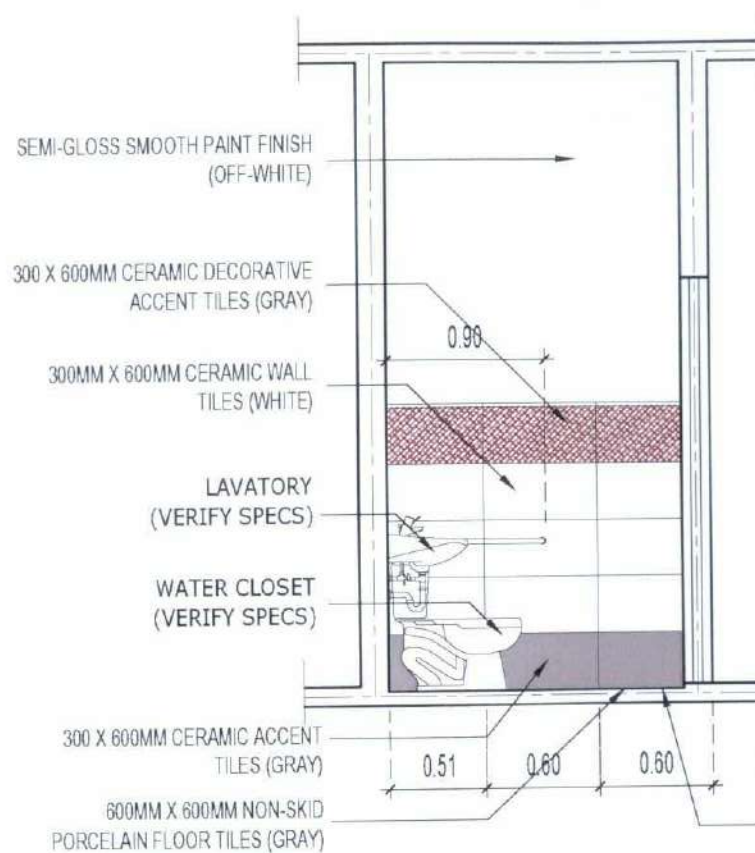
RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

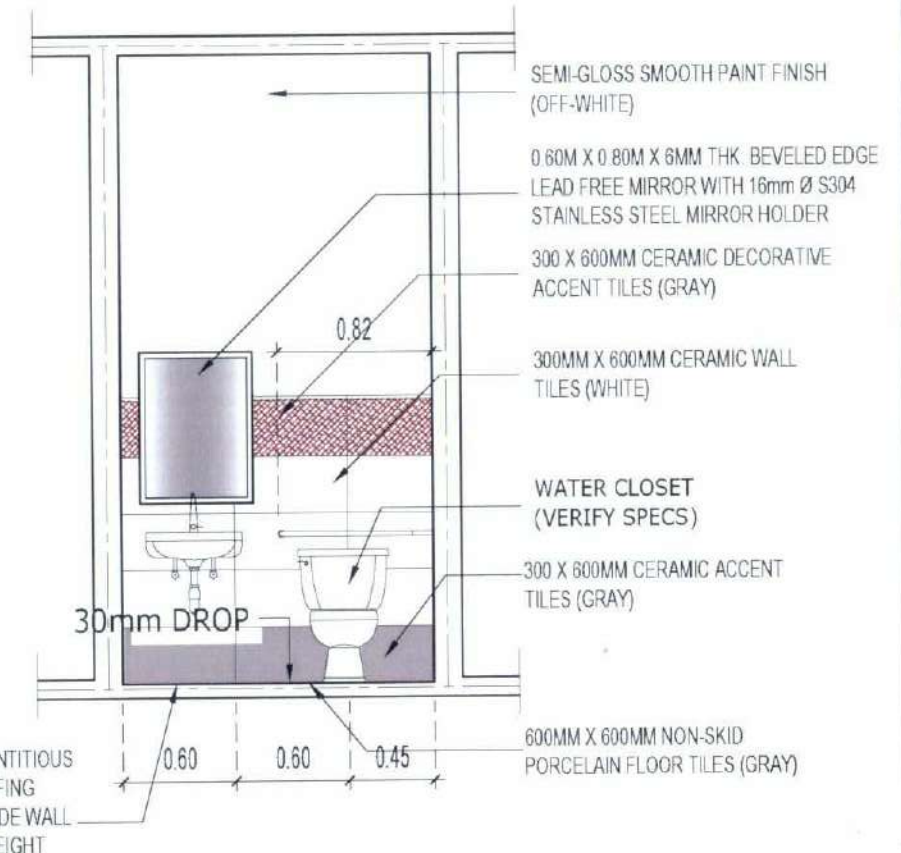
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PWD/GENDER NEUTRAL PLAN
SCALE 1:30M



SECTIONAL ELEVATION @ A
SCALE 1:40M



SECTIONAL ELEVATION @ B
SCALE 1:40M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Norrondo Boulevard, Tarlac City, Philippines 2100

PROJECT TITLE
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. LUCAS B. CALUYA
ARCHITECT, OFDM-PDU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS

AS SHOWN

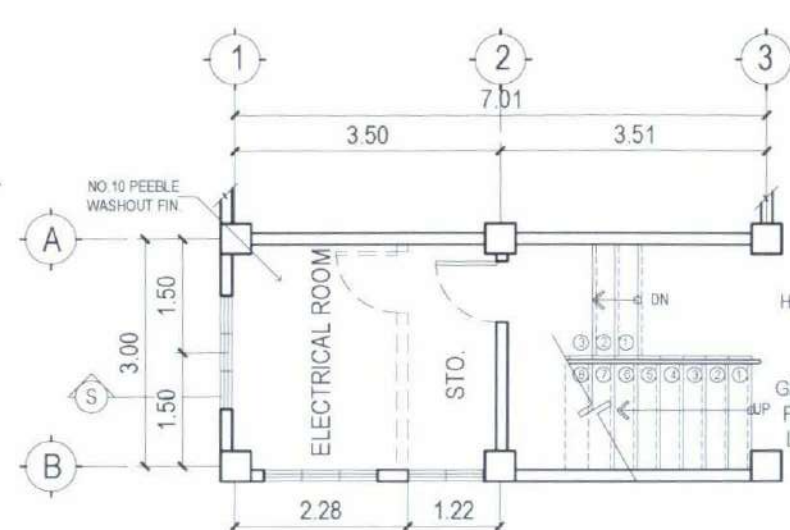
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SHEET NO:

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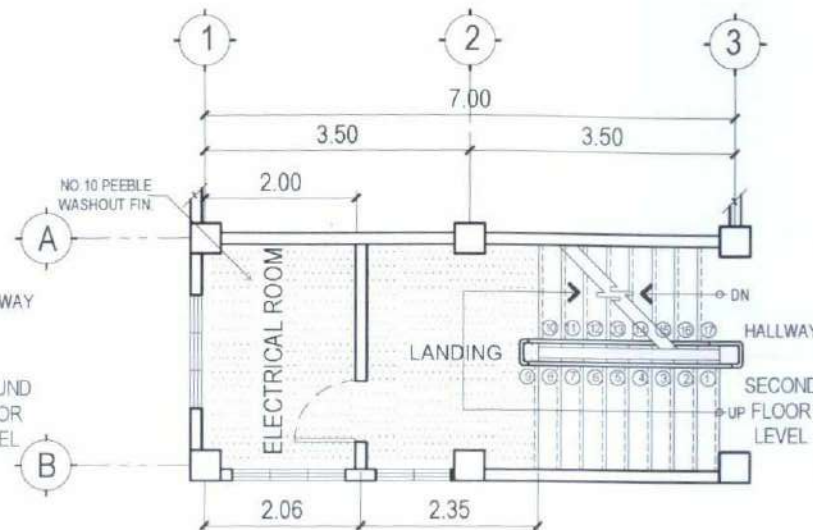
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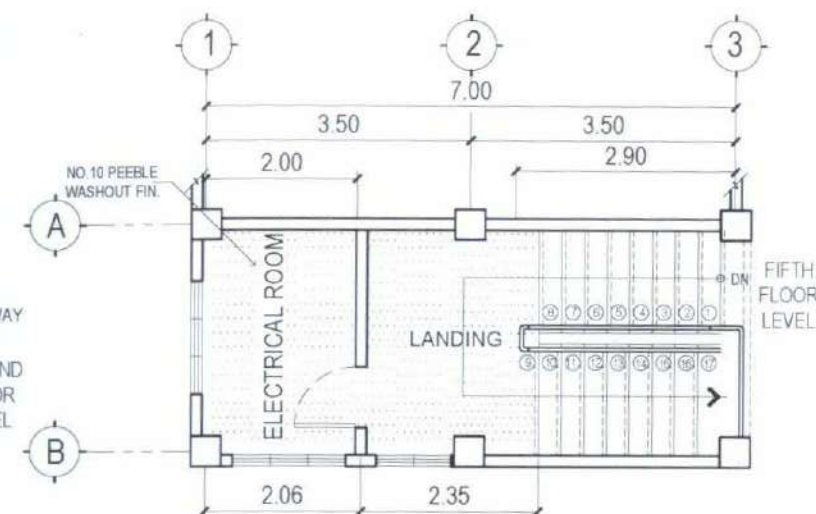
**GROUND FLOOR
TO SECOND FLOOR**

SCALE 1:100M



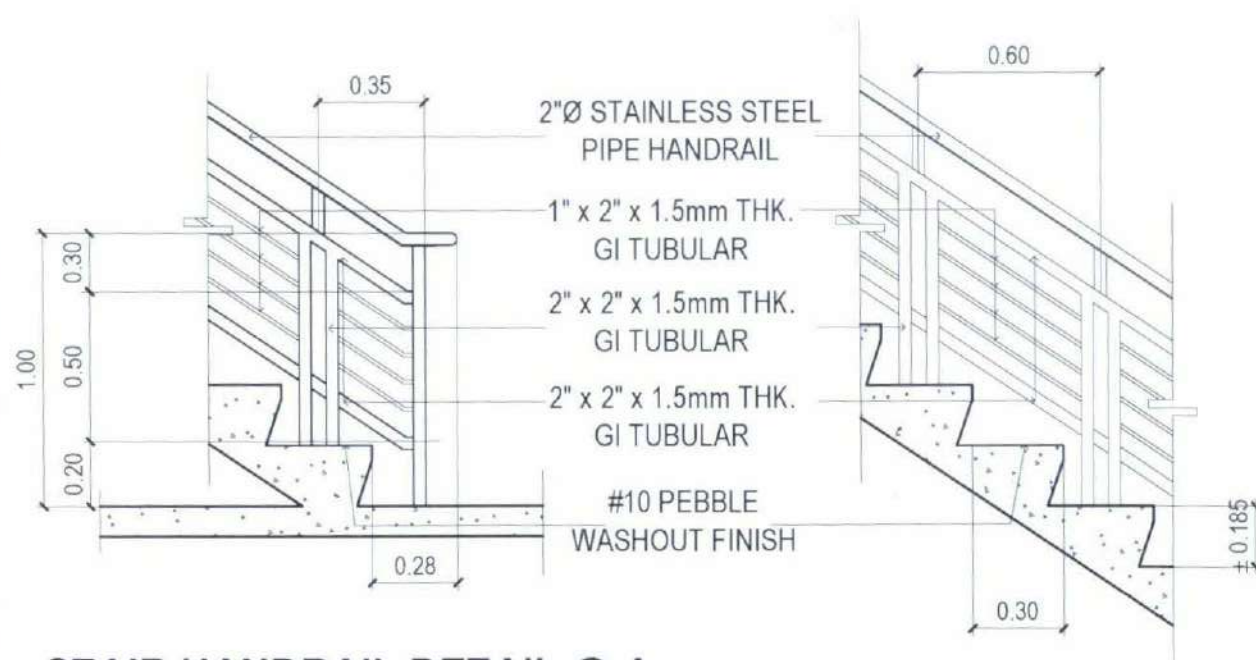
**SECOND FLOOR
TO FIFTH FLOOR**

SCALE 1:100M



**FIFTH FLOOR TO
FORTH FLOOR**

SCALE 1:100M

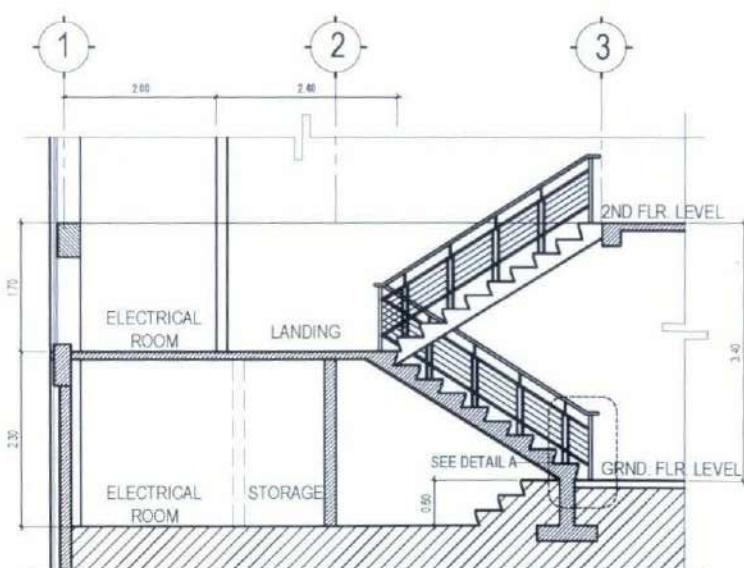


STAIR HANDRAIL DETAIL @ A

SCALE 1:25M

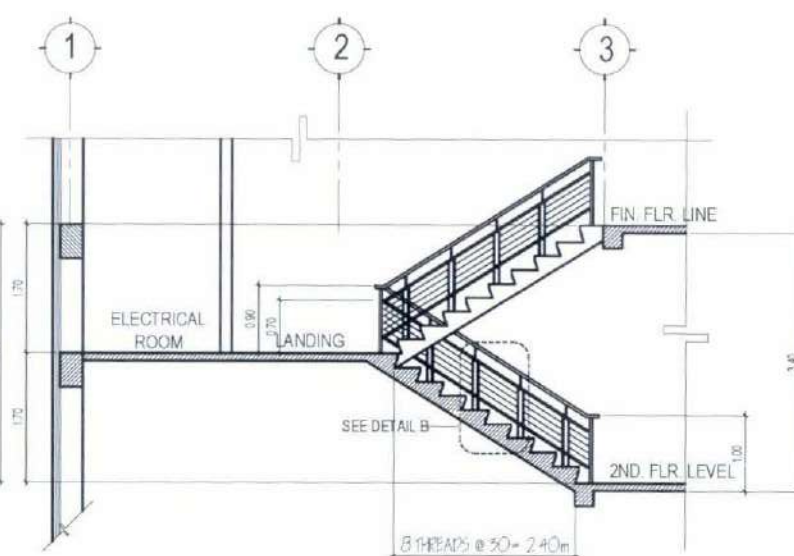
STAIR RAILING DETAIL B

SCALE 1:25M



**STAIR SECTION
(GROUND TO 2ND FLOOR)**

SCALE 1:100M



**STAIR SECTION
(2ND TO 5TH FLOOR)**

SCALE 1:100M



TARLAC STATE UNIVERSITY
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SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MYSES B. CALUYA
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AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

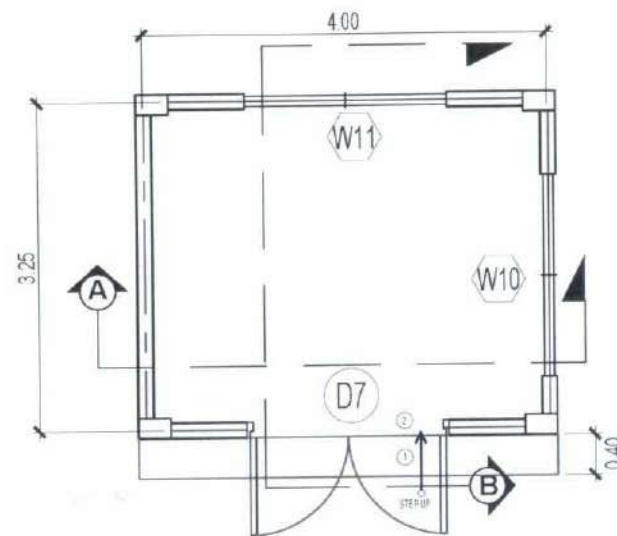
RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
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PRESIDENT

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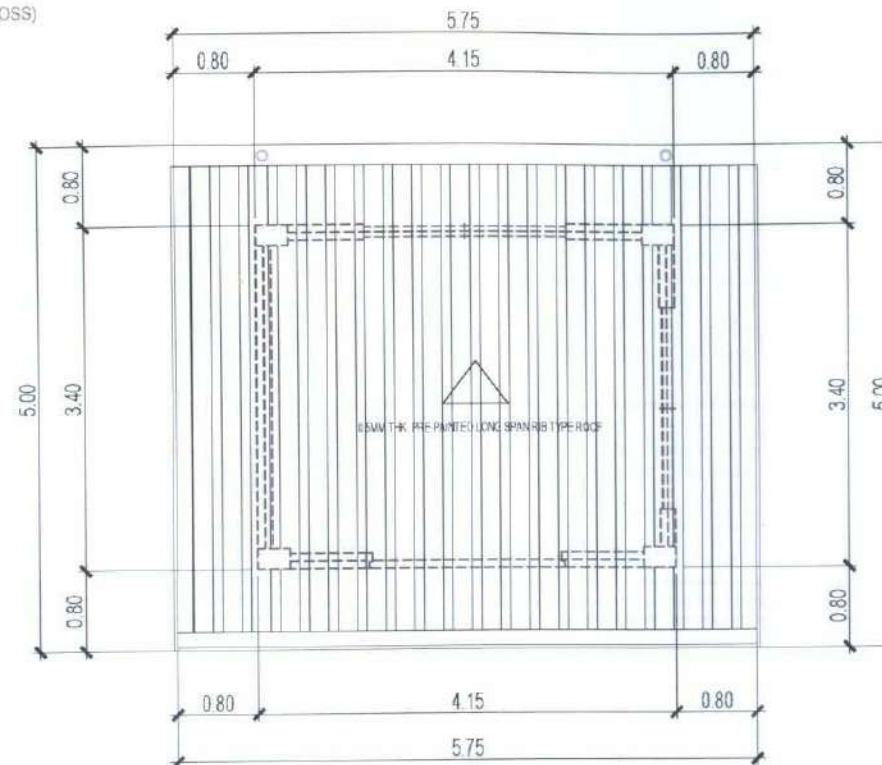
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- NOTE
- ALL CONCRETE SURFACES (INTERIOR & EXTERIOR) SHOULD BE SMOOTH PLASTERED PAINT FINISHED (OFF-WHITE SEMI GLOSS)
 - ALL METAL SURFACES SHOULD BE SMOOTH PAINT FINISHED



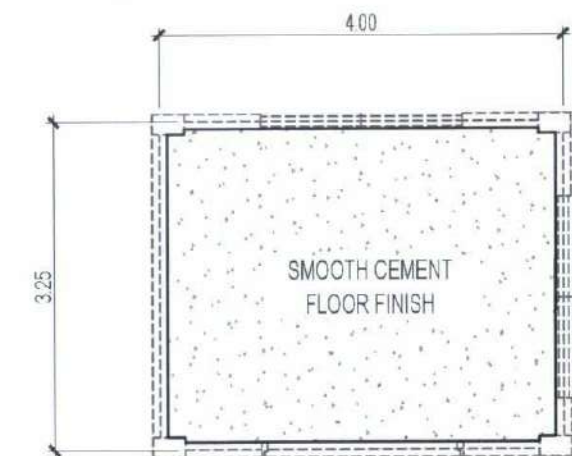
PUMP ROOM FLOOR PLAN

SCALE: 1:75M



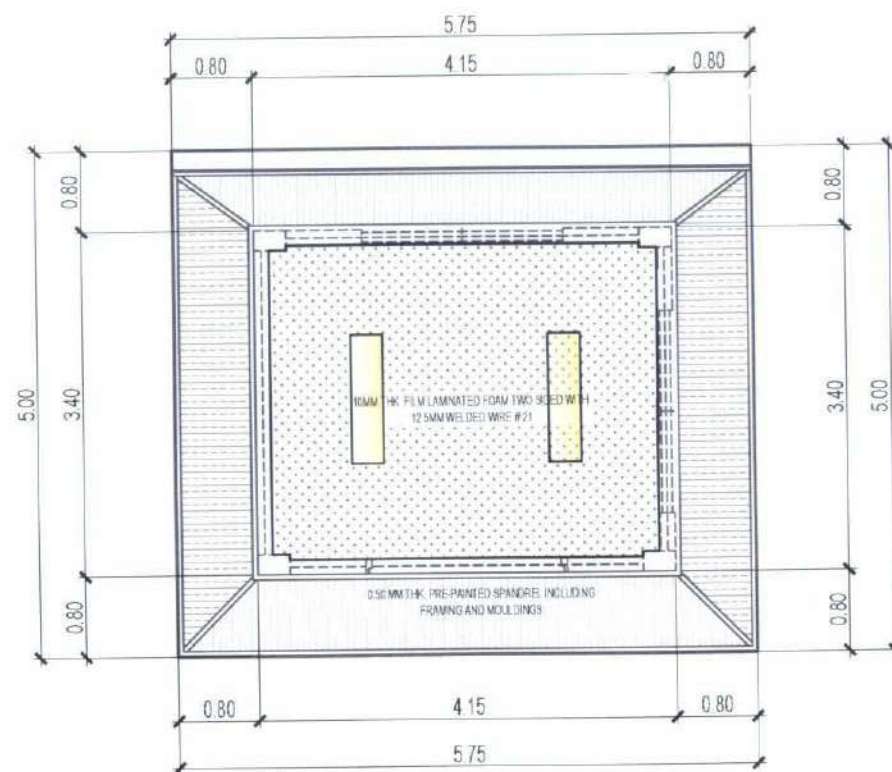
ROOF PLAN

SCALE: 1:75M



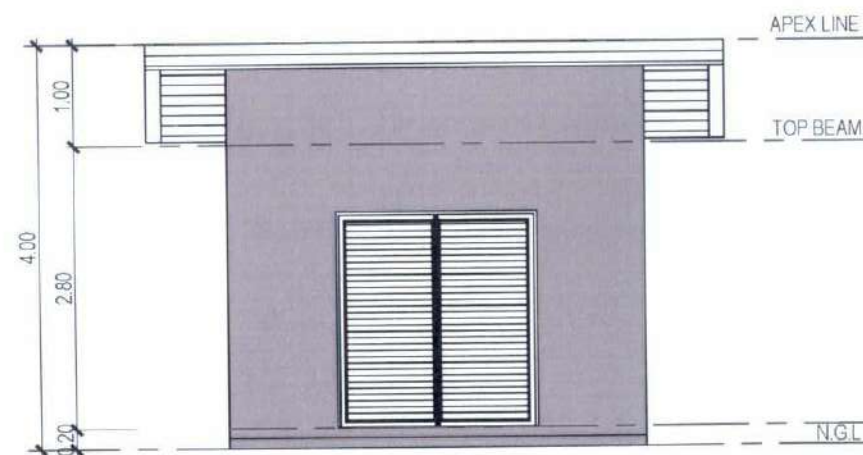
FLOOR LAYOUT PLAN

SCALE: 1:75M



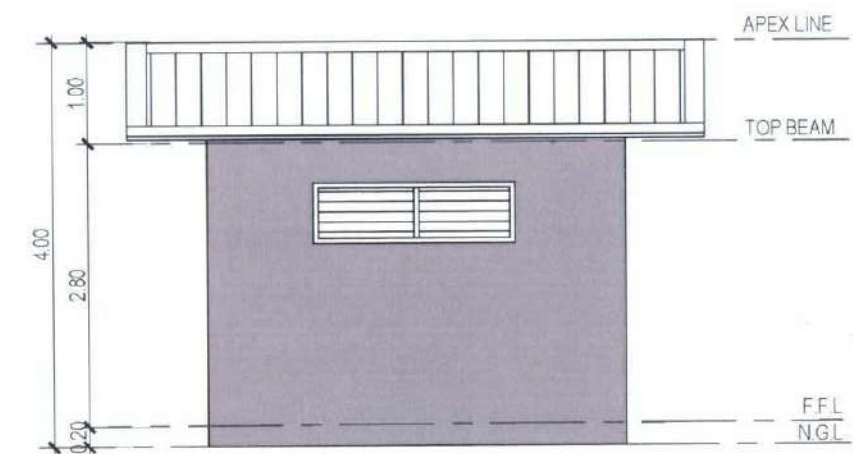
REFLECTED CEILING PLAN

SCALE: 1:75M



FRONT ELEVATION

SCALE: 1:75M



REAR ELEVATION

SCALE: 1:75M



TARLAC STATE UNIVERSITY
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SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. MARK ANTHONY L. PUNZALAN
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CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

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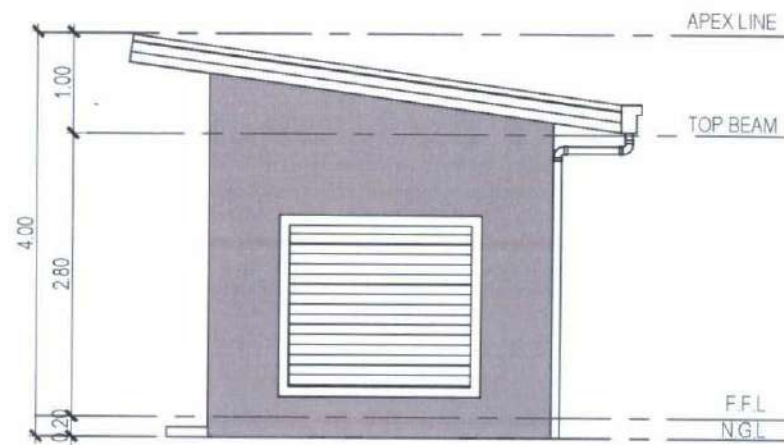
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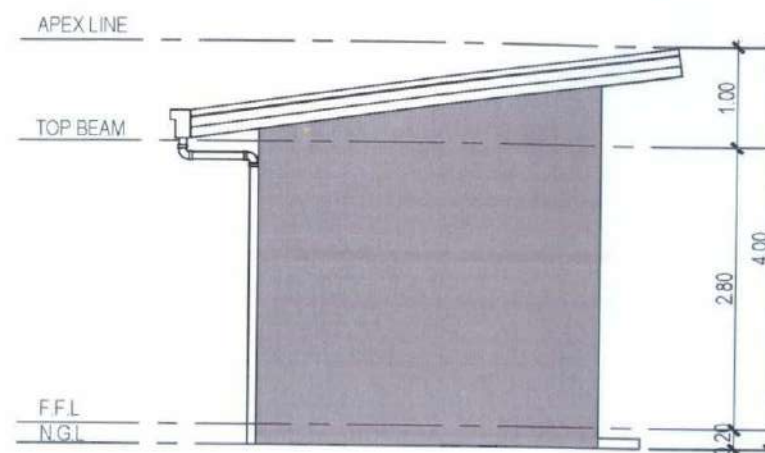
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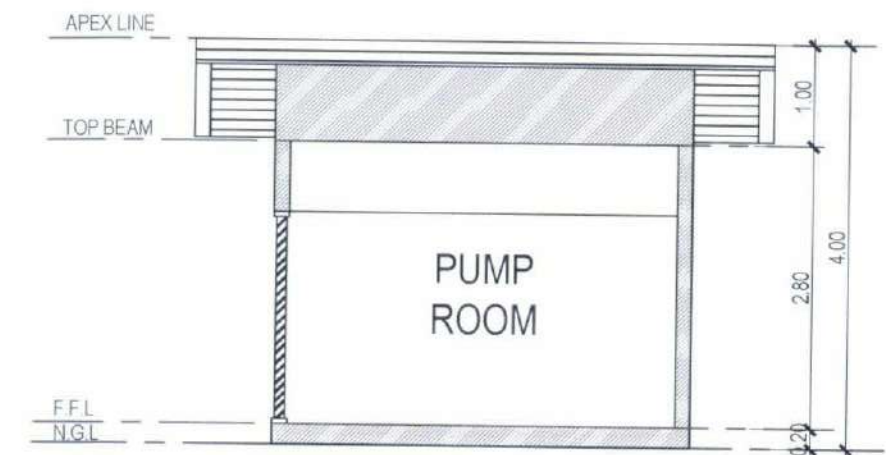
RIGHT SIDE ELEVATION

SCALE: 1.75M



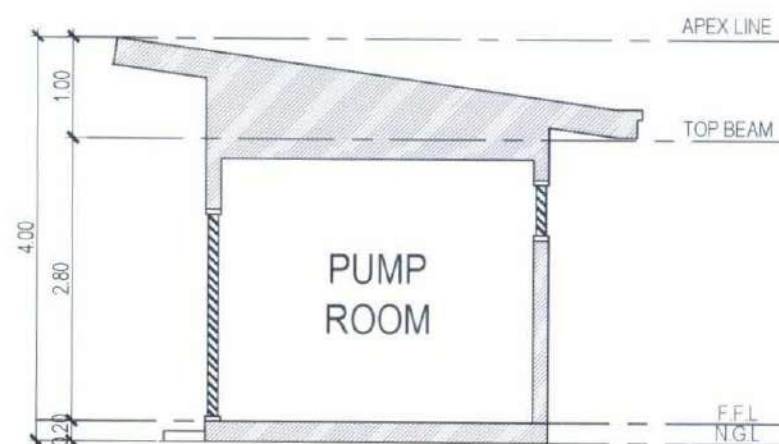
LEFT SIDE ELEVATION

SCALE: 1.75M



SECTION THRU A

SCALE: 1.75M



SECTION THRU B

SCALE: 1.75M

D7 1 SET PUMP ROOM	W10 1 SET PUMP ROOM	W11 1 SET PUMP ROOM
DOUBLE SWING STEEL LOUVER DOOR (SMOOTH PAINT FINISH) FRAMING: 2" X 3" X 1.5mm THK. GI TUBULAR LOUVERS: 0.5mm THK. G.I SHEET ACCESSORIES: 3/4" Ø HEAVY DUTY CYLINDRICAL HINGES, 12MM ROUND BAR, HANDLE WITH HEAVY DUTY PADLOCK	STEEL LOUVER WINDOW (SMOOTH PAINT FINISH) FRAMING: 2" X 3" X 1.5mm THK. GI TUBULAR LOUVERS: 0.5mm THK. G.I SHEET	STEEL LOUVER WINDOW (SMOOTH PAINT FINISH) FRAMING: 2" X 3" X 1.5mm THK. GI TUBULAR LOUVERS: 0.5mm THK. G.I SHEET

SCHEDULE OF DOORS AND WINDOWS

SCALE: 1.100M



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SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTHONY PUNZALAN
ARCHITECT, OFDM-POU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

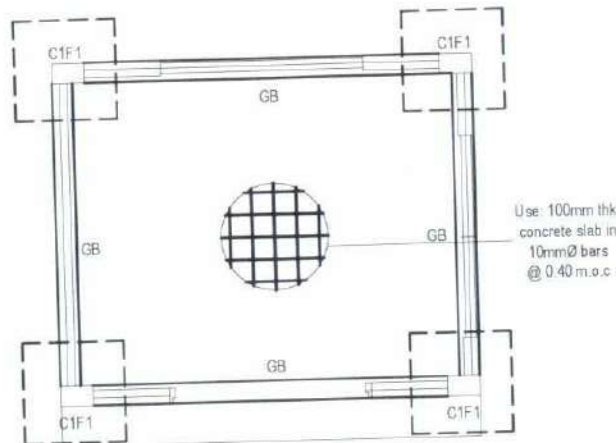
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
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PRESIDENT

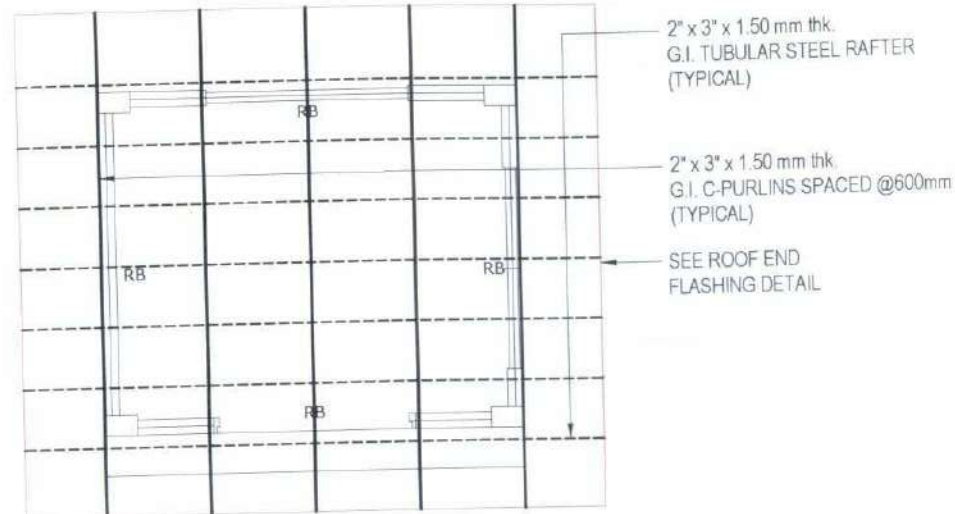
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FOUNDATION PLAN

SCALE: 1:75M



ROOF FRAMING PLAN

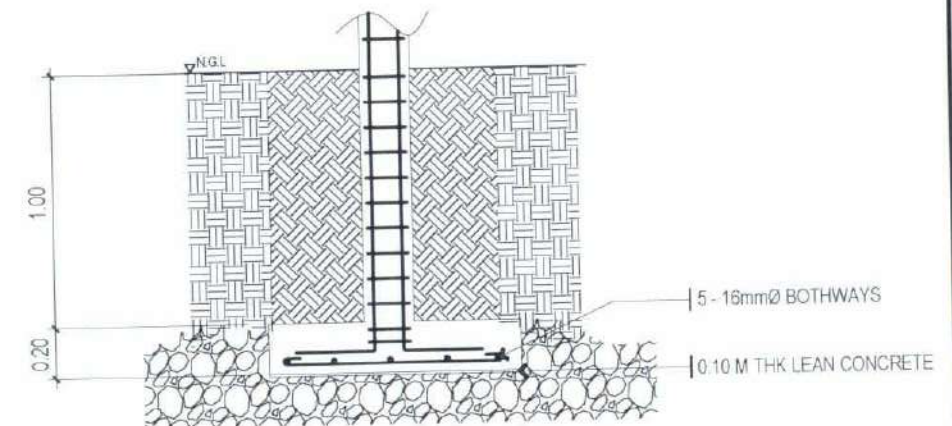
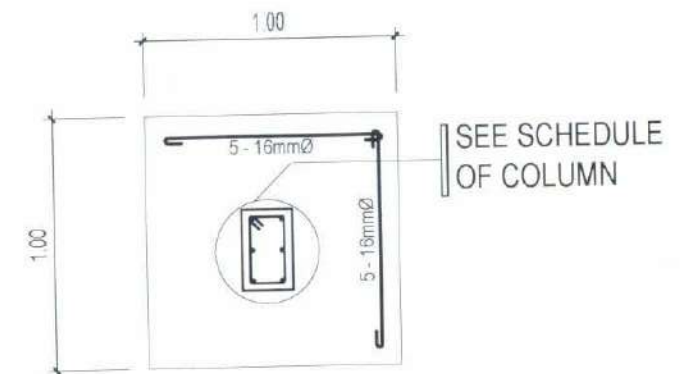
SCALE: 1:75M

SCHEDULE OF COLUMN

MARK	ILLUSTRATION		TIES			REMARKS
	SECTION (Footing - Grade)	VERTICAL REINF	DIA	NO.	SPACING	
COLUMN		2-16mm	10mm	2 8 REST SPlicing	50	
		2-16mm			75	
		2-16mm			100	
	200x300					

SCHEDULE OF ROOF BEAM

MARK	CONT. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
GB		2-16mm top	2-16mm	2-16mm	2-16mm	2-16mm	2-16mm	10mm	2	50	
		2-16mm bot.	2-16mm	2-16mm	2-16mm	2-16mm	2-16mm		REST	125	
									SPLICE	100	
		200x300		200x300		200x300					
RB		2-16mm top	2-16mm	2-16mm	2-16mm	2-16mm	2-16mm	10mm	2	50	
		2-16mm bot.	2-16mm	2-16mm	2-16mm	2-16mm	2-16mm		REST	125	
									SPLICE	100	
		200x300		200x300		200x300					

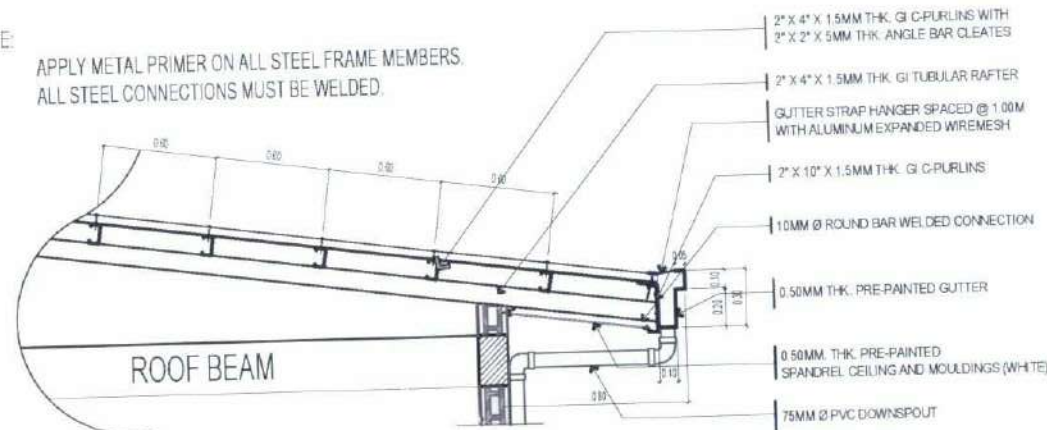


COLUMN FOOTING

SCALE 1:30M

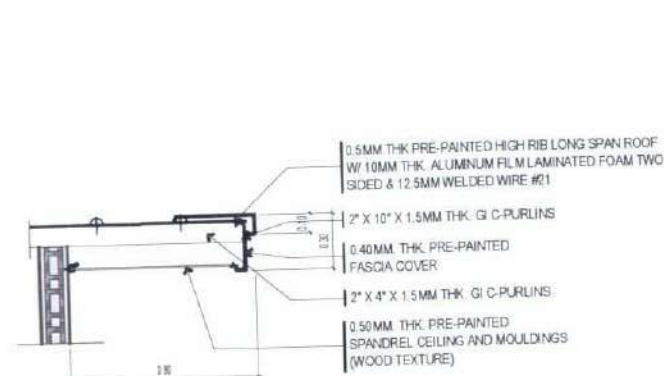
NOTE:

APPLY METAL PRIMER ON ALL STEEL FRAME MEMBERS.
ALL STEEL CONNECTIONS MUST BE WELDED.



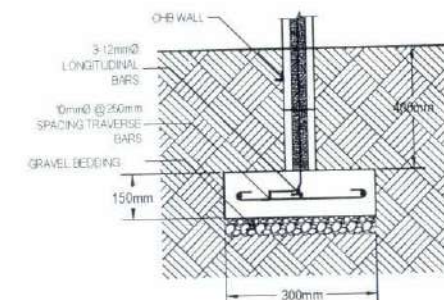
ROOFING SECTION DETAIL

SCALE: 1:40M



ROOFING END FLASHING DETAIL

SCALE: 1:40M



WALL FOOTING DETAIL

SCALE: 1:15M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Roadward, Tarlac City, Philippines 3300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTHONY L. PUNZALAN
ARCHITECT, OEDM-POU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OEDM-POU

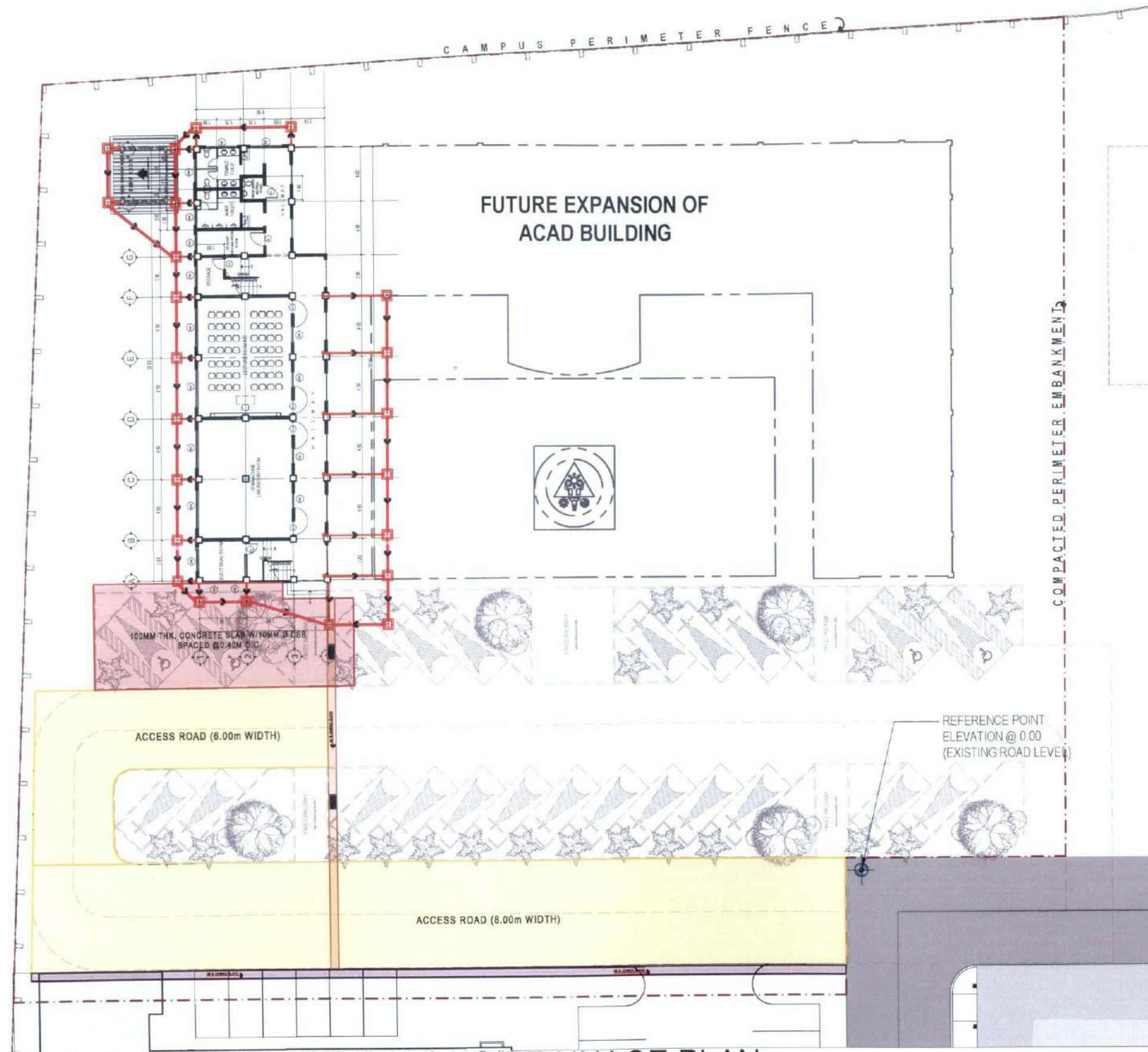
CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OEDM

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

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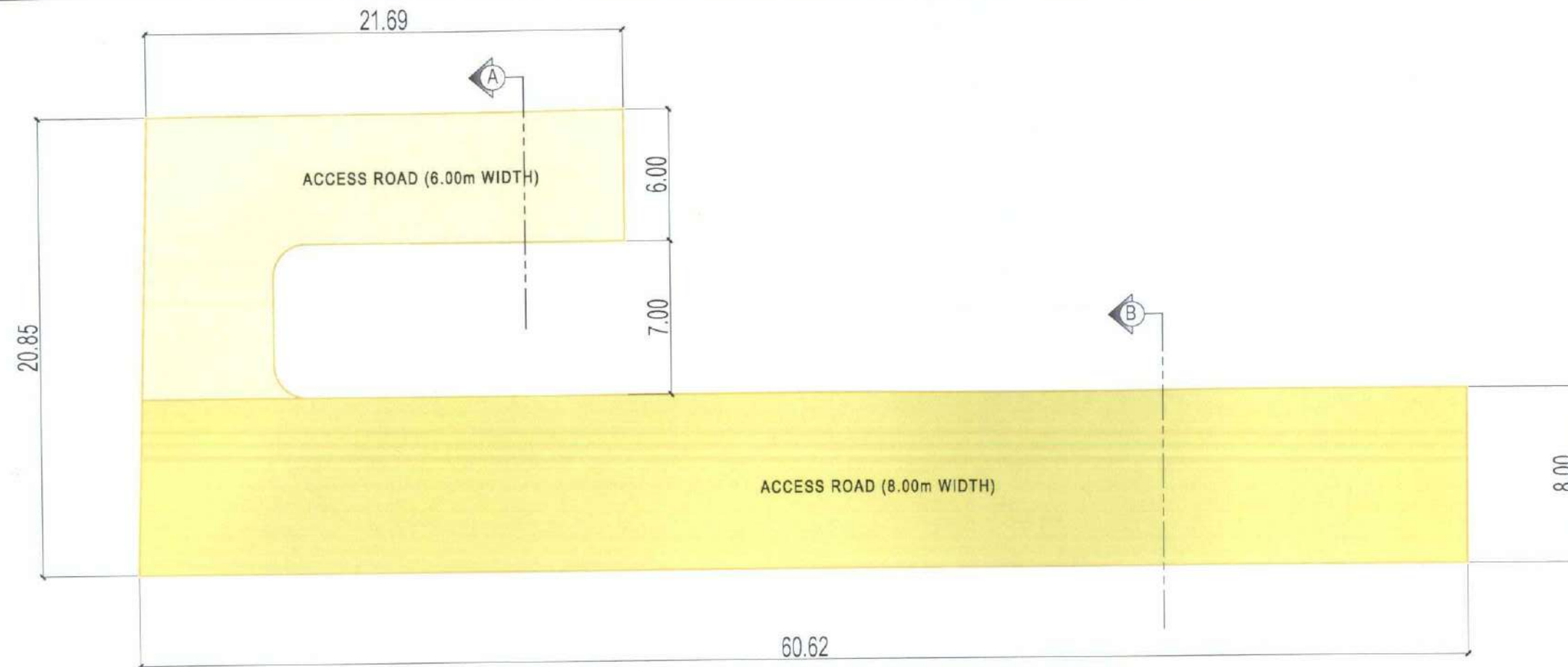
ROAD AND DRAINAGE PLAN

SCALE 1:350M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

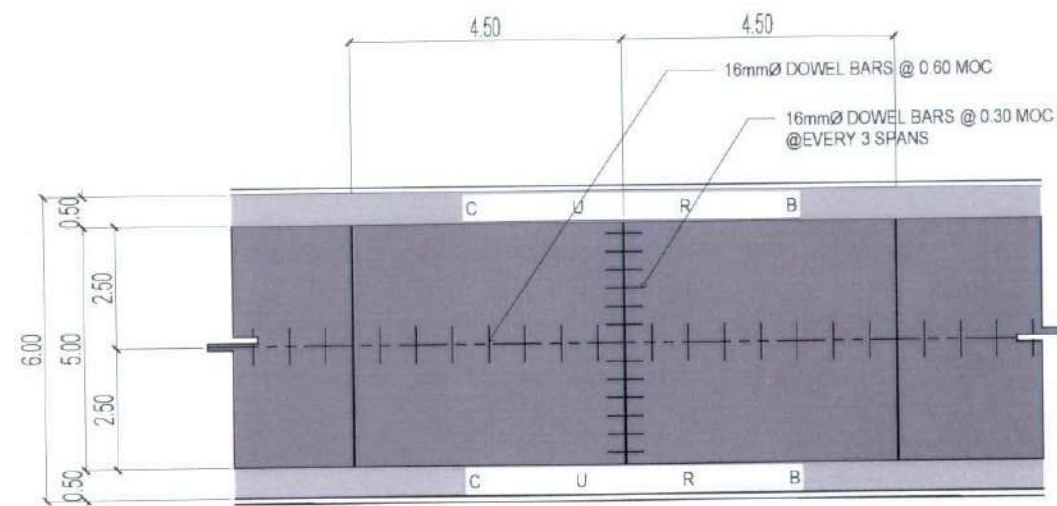
PROJECT TITLE CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: AR. MARK ANTHONY P. PUNZALAN ARCHITECT, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO.: A-43 PAGE NO.: 43/119
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PROPOSED ROAD EXTENSION PLAN

SCALE

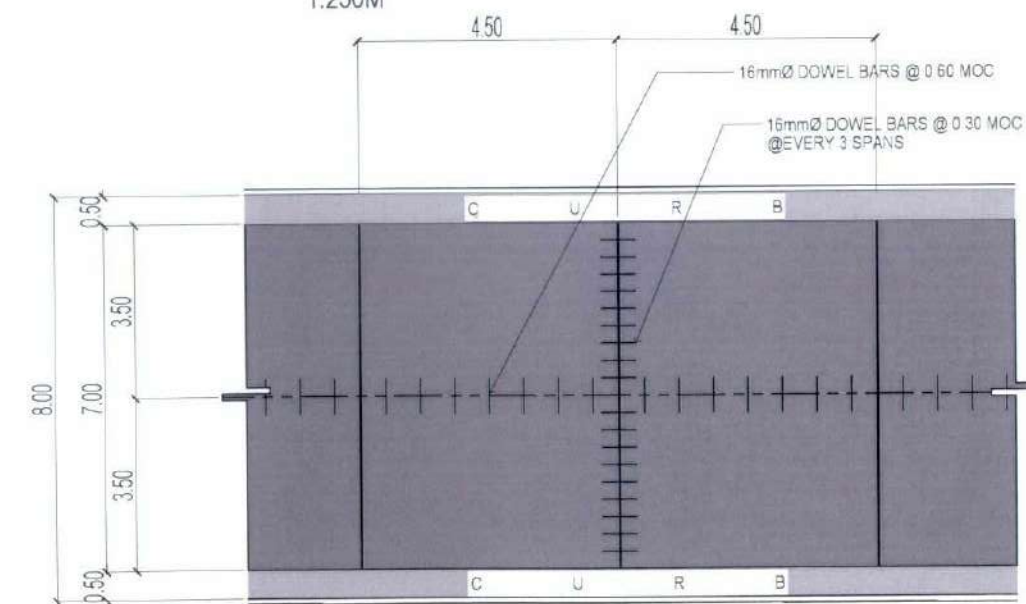
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TYPICAL 6.00M ROADWAY PLAN

SCALE

1:150M



TYPICAL 8.00M ROADWAY PLAN

SCALE

1:150M



TARLAC STATE UNIVERSITY
Facilities Development and
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Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTHONY PUNZALAN
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CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OADM-PDU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OADM

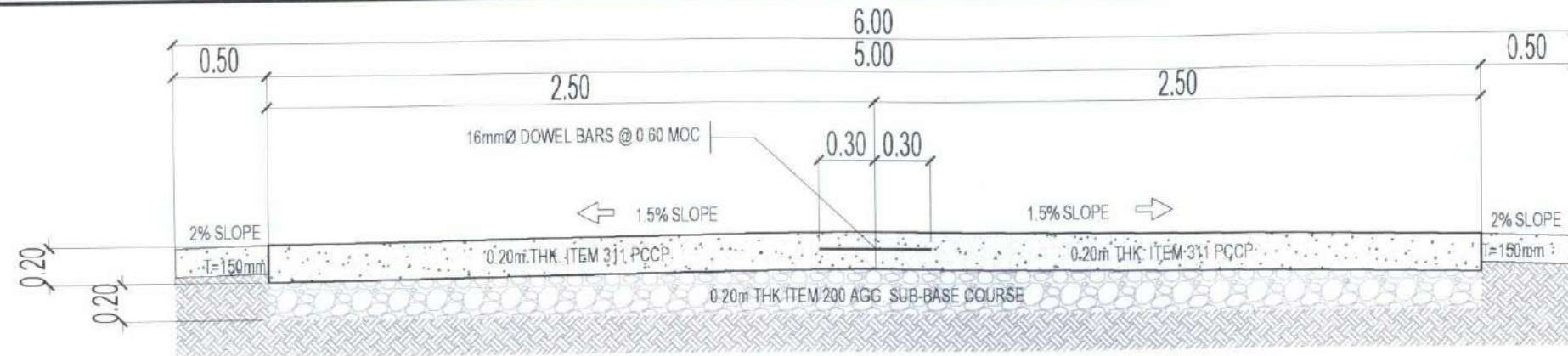
REQUESTING OFFICE:
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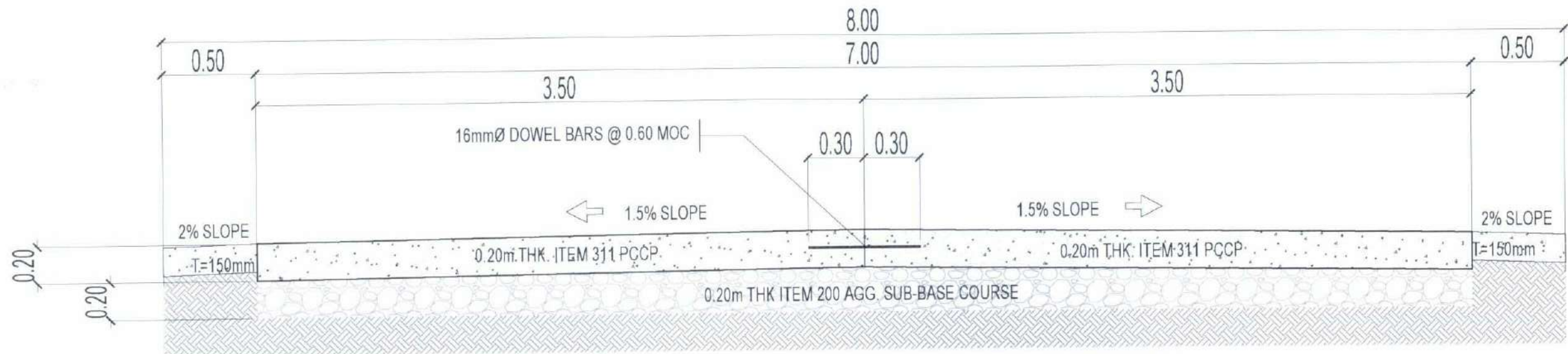
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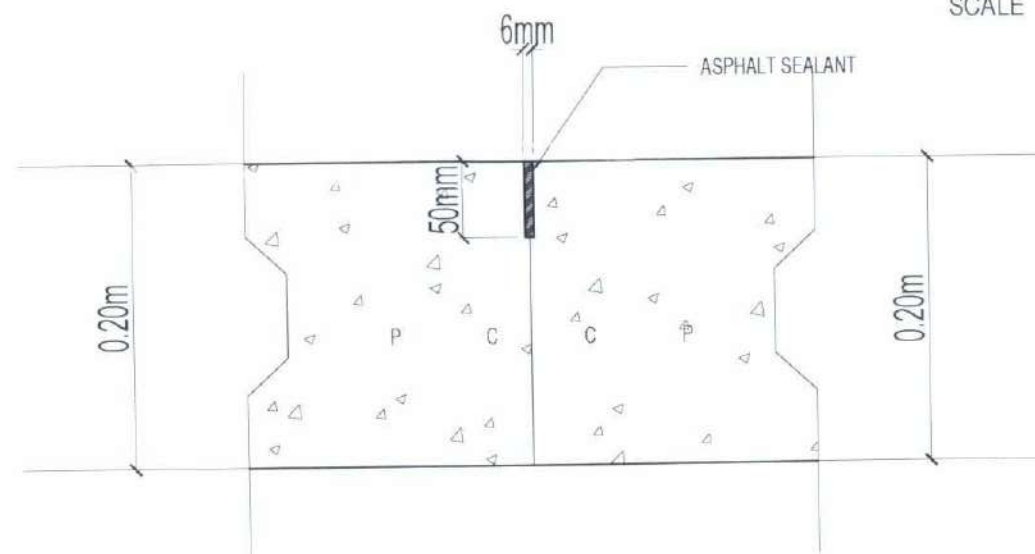
TYPICAL 6.00M ROADWAY SECTION THRU A

SCALE 1:100M



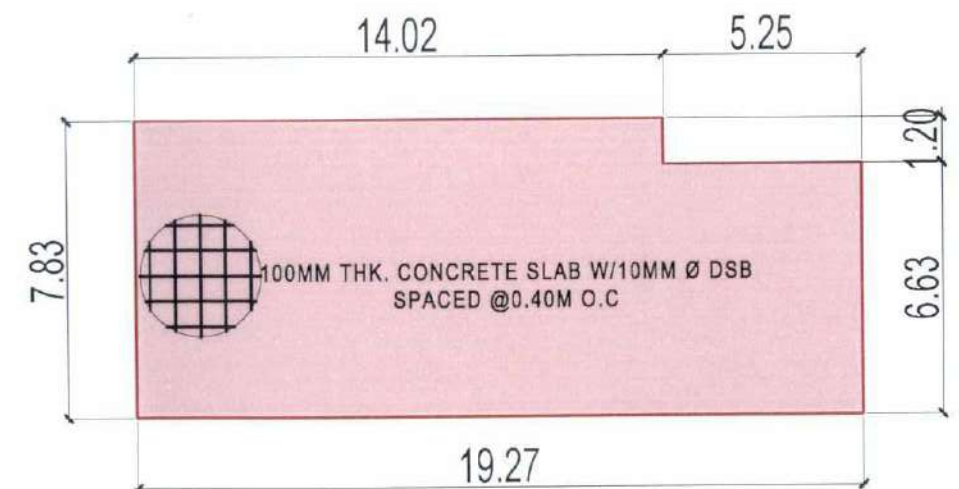
TYPICAL 8.00M ROADWAY SECTION THRU B

SCALE 1:100M



DETAIL OF CONTRACTION JOINT

NTS



CONCRETE SLAB DETAIL

SCALE 1:200M



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PREPARED BY:
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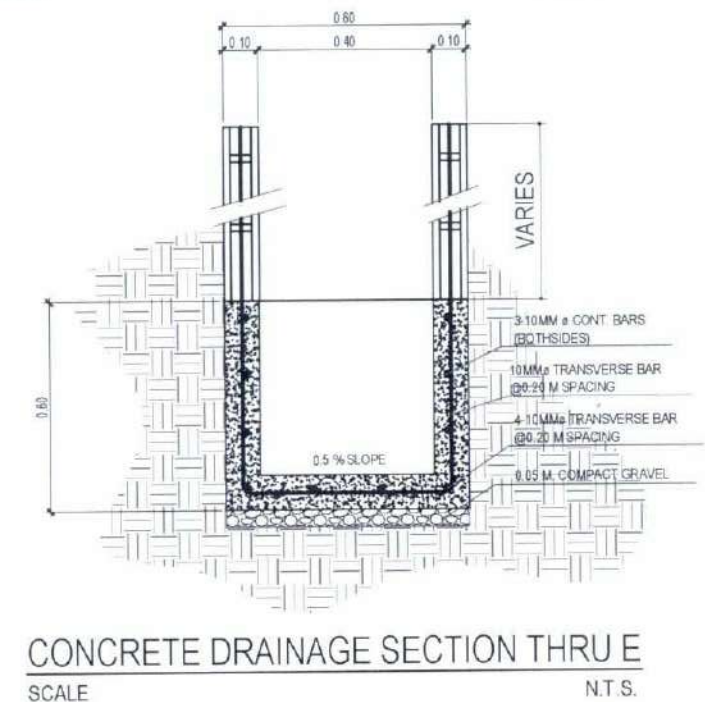
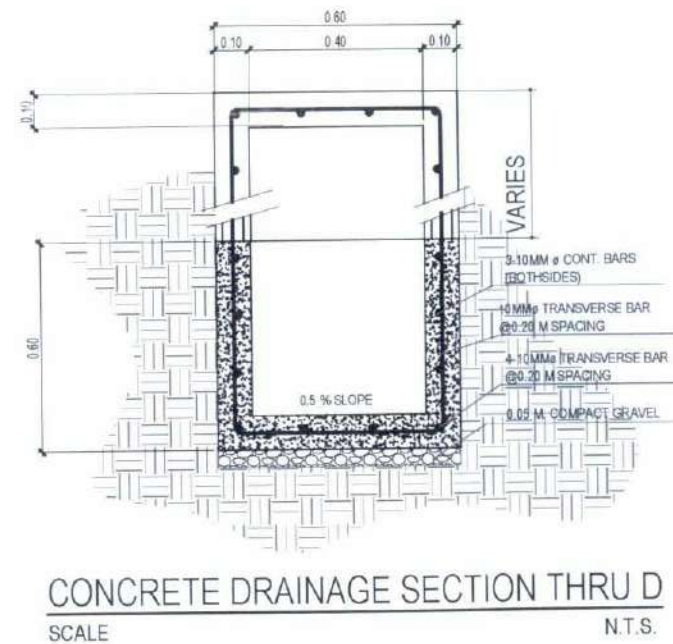
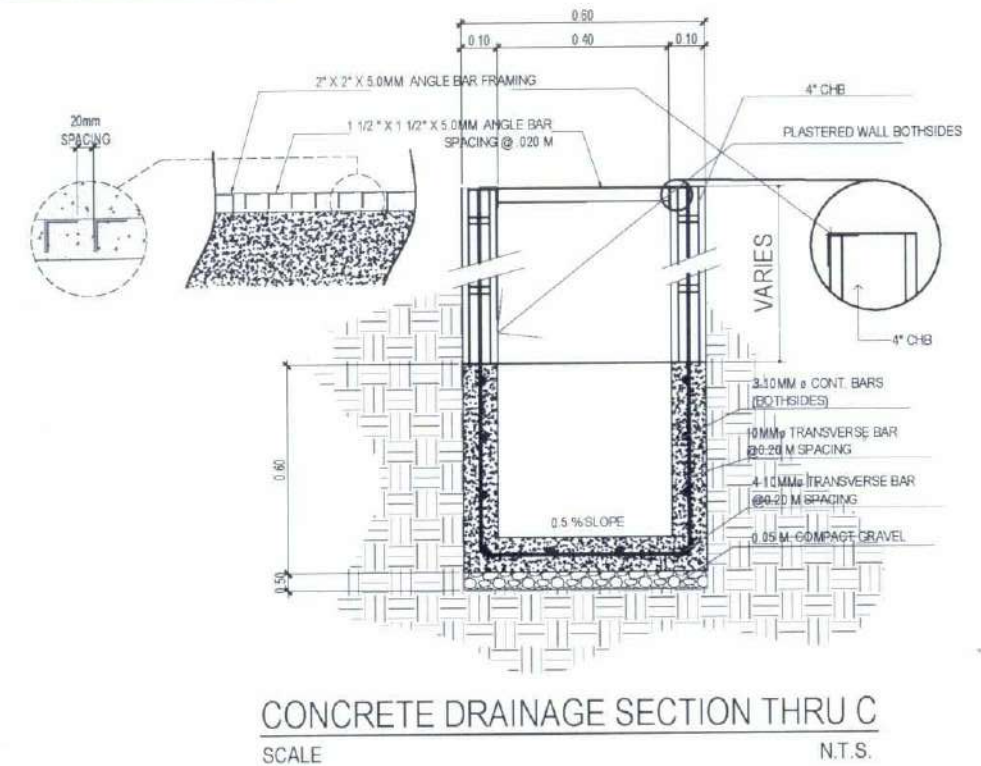
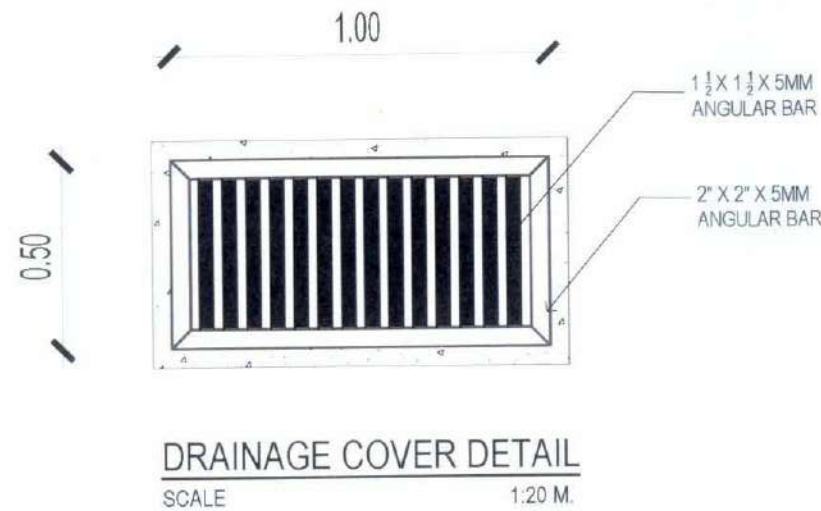
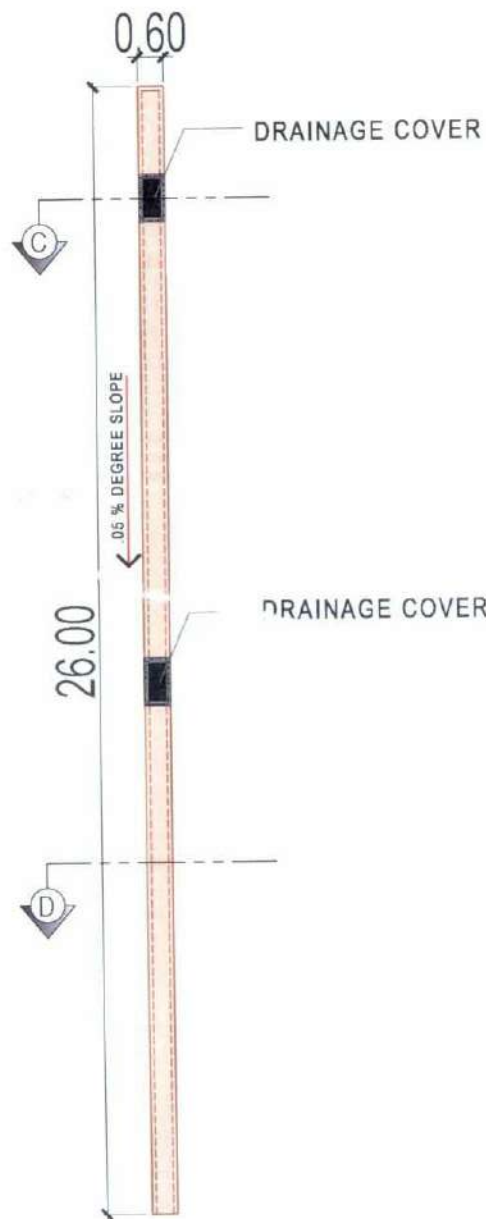
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PROPOSED CLOSED CONCRETE DRAINAGE PLAN

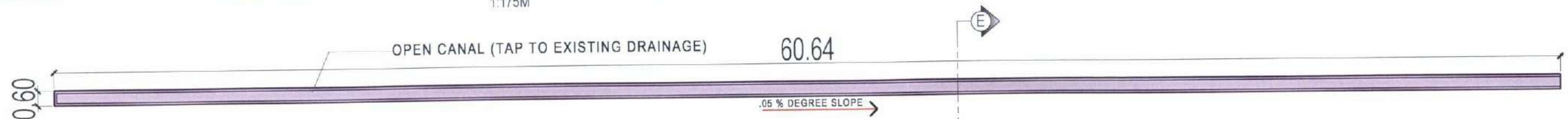
SCALE 1:175M

CONCRETE DRAINAGE SECTION THRU D

SCALE N.T.S.

CONCRETE DRAINAGE SECTION THRU E

SCALE N.T.S.



PROPOSED OPEN CONCRETE DRAINAGE PLAN

SCALE 1:175M



TARLAC STATE UNIVERSITY
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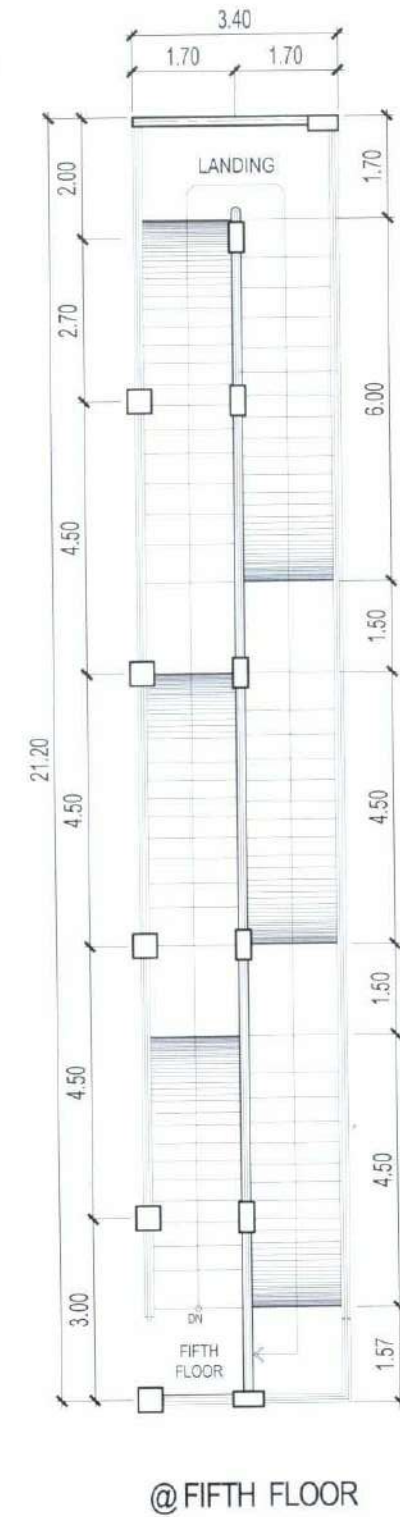
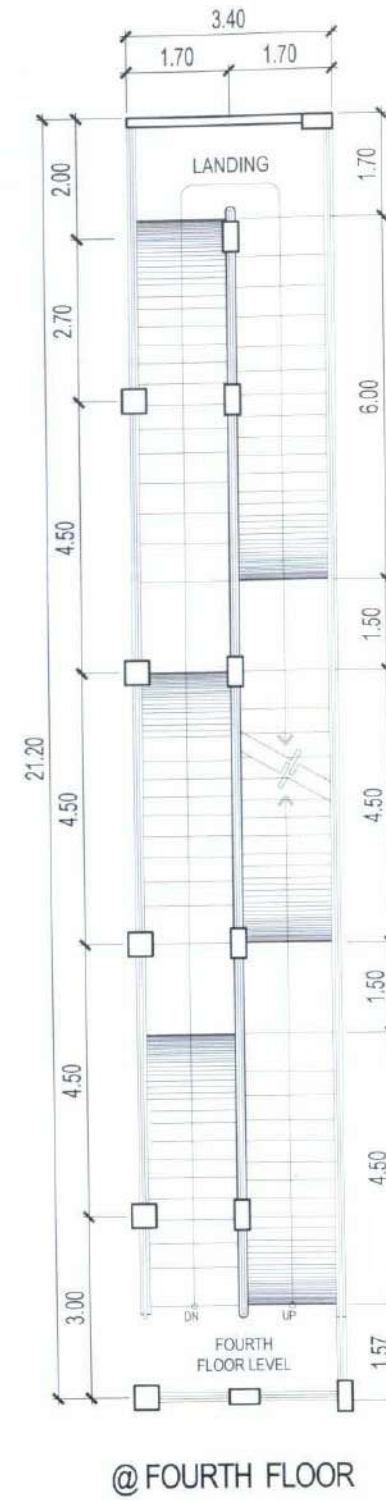
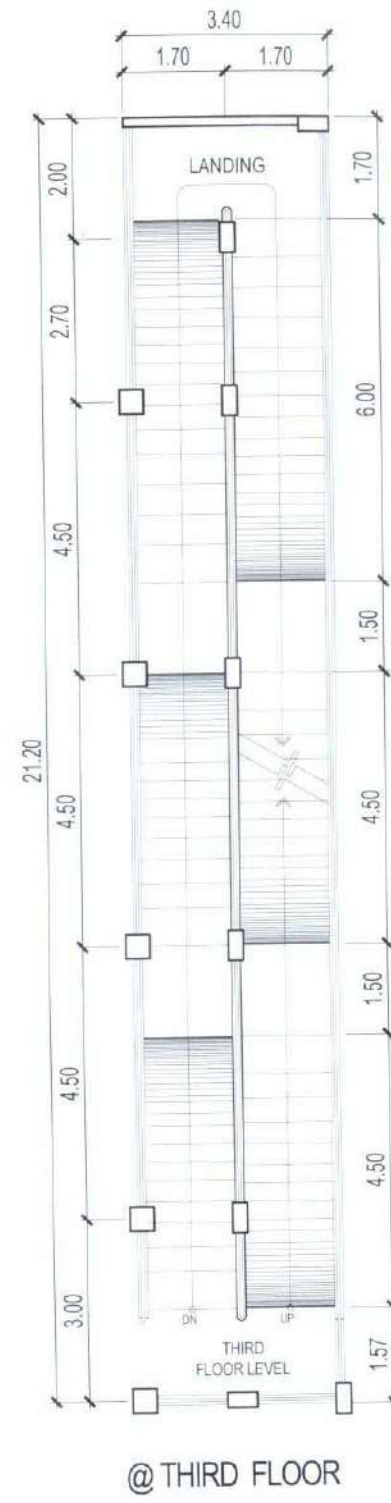
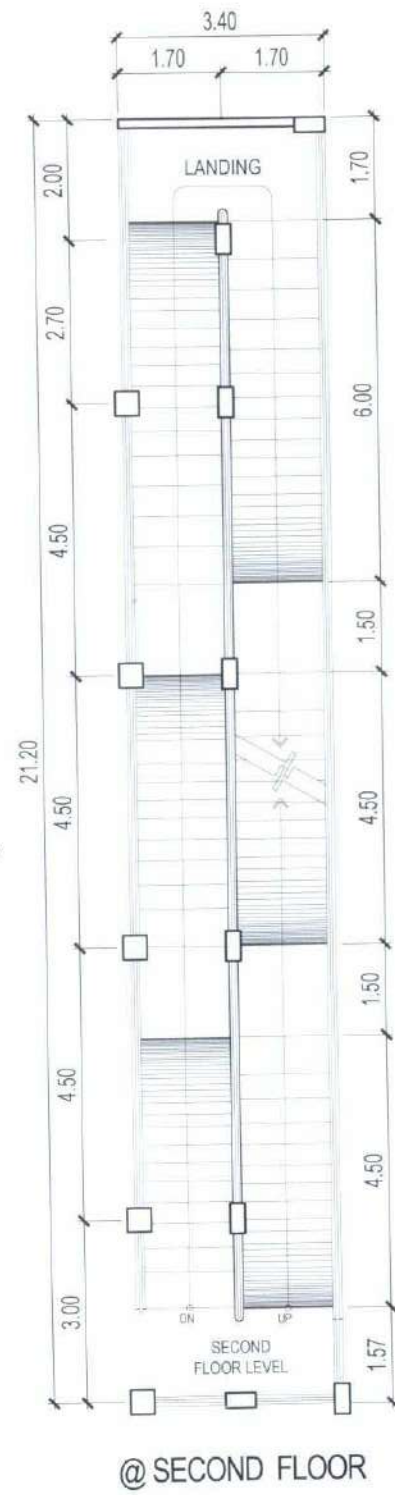
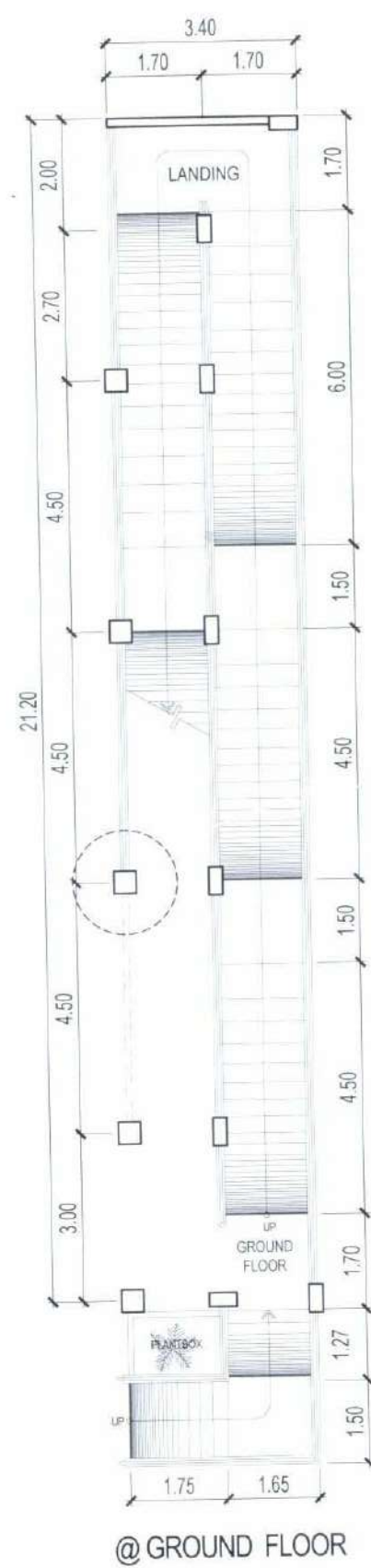
CERTIFIED BY:
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REQUESTING OFFICE:
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DEAN, COE

RECOMMENDING APPROVAL:
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APPROVED:
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PRESIDENT

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RAMP DETAILED PLAN

SCALE 1:125M



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HEAD, OFDM-POU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

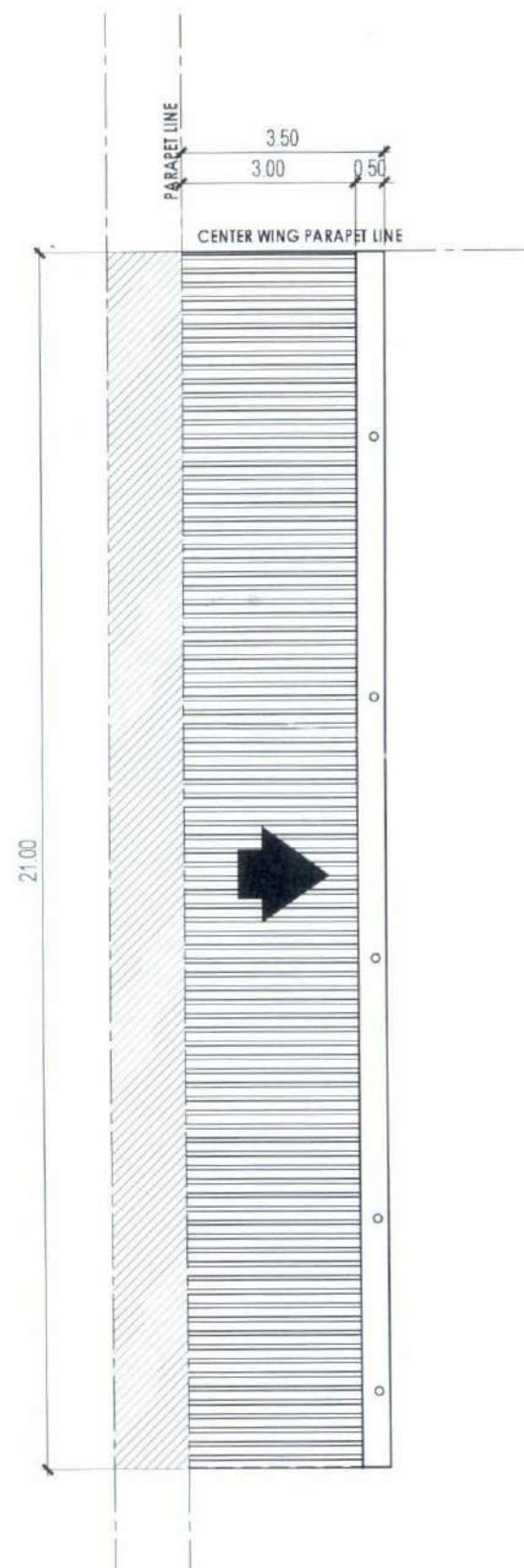
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
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RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

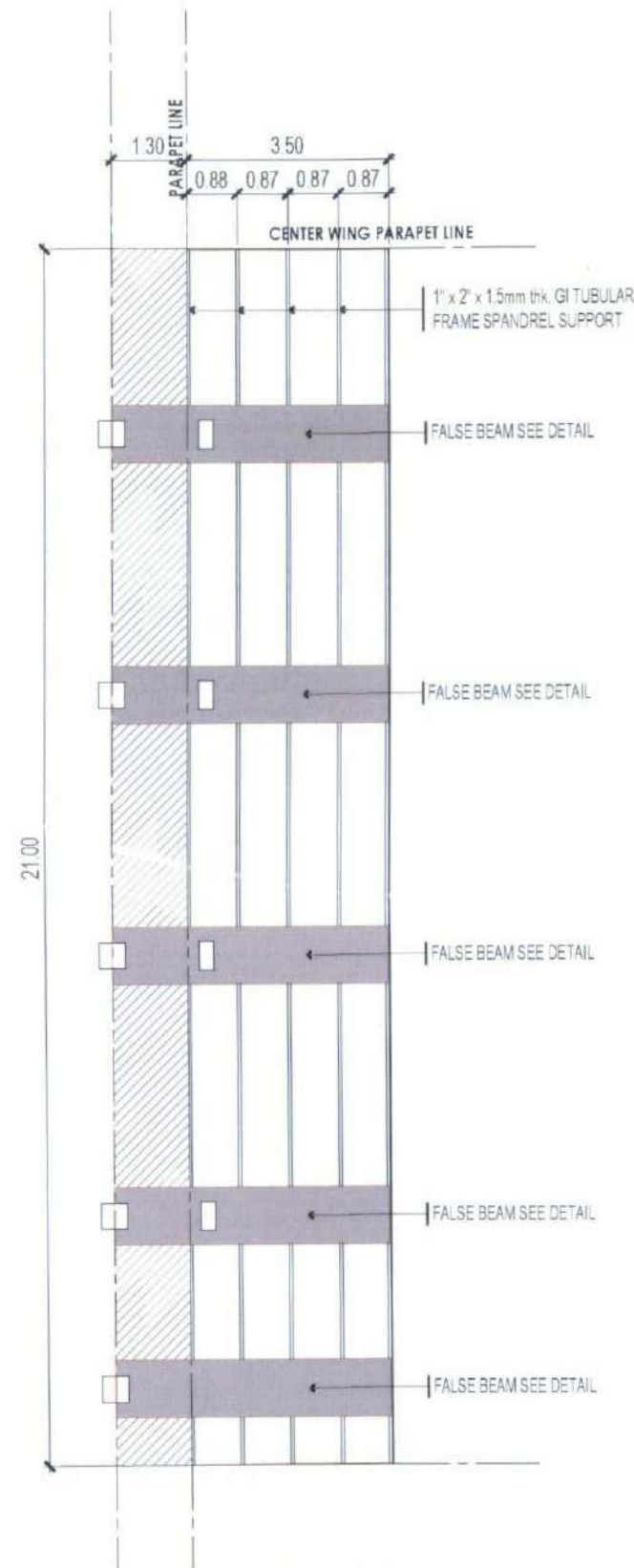
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

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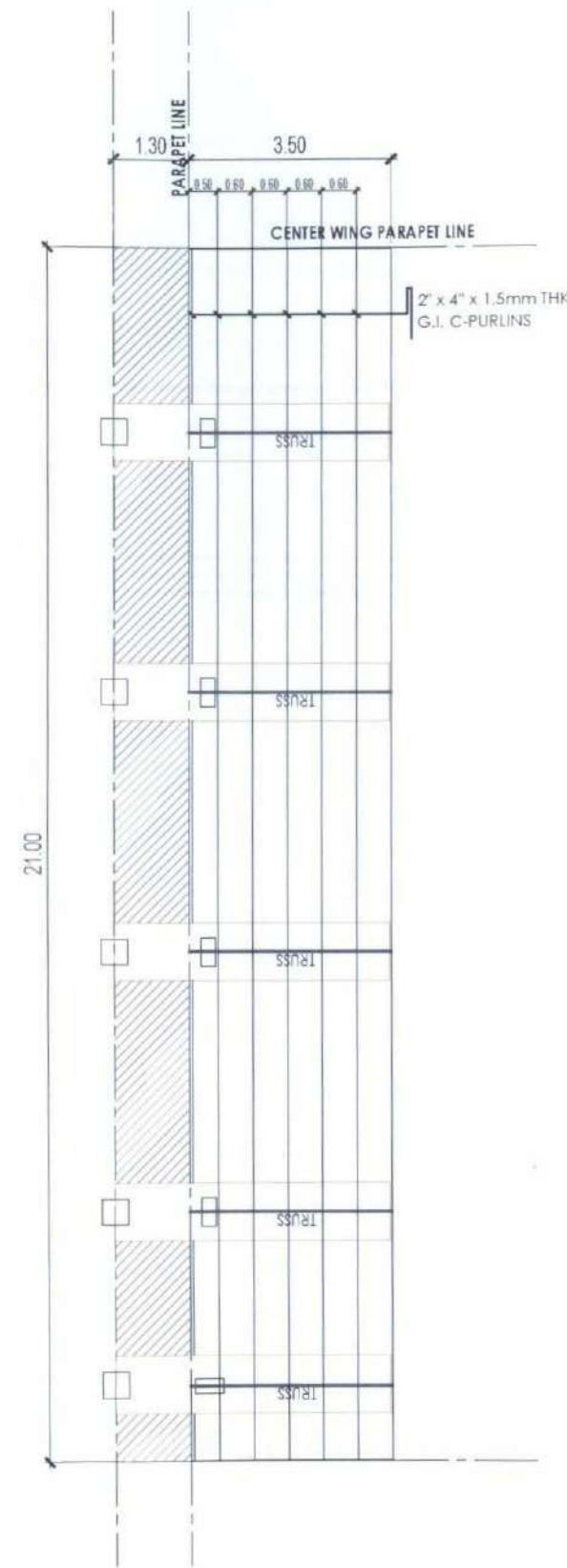
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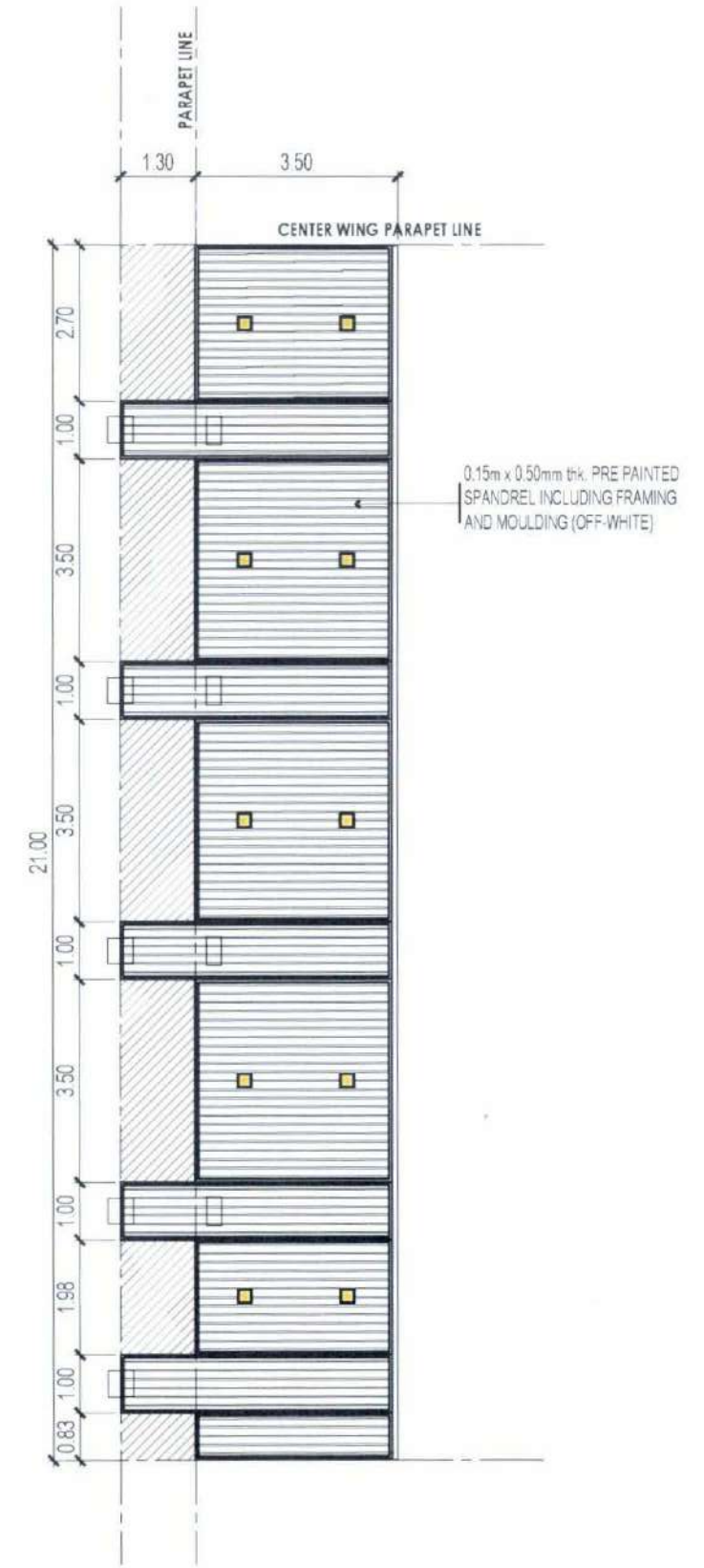
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SCALE 1:125M



RAMP EAVES FRAMING DETAIL
SCALE 1:125M



RAMP FRAMING DETAIL
SCALE 1:125M



RAMP EAVES DETAIL PLAN
SCALE 1:125M



TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Apoledo Boulevard, Tarlac City, Philippines 2200

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. MARK ANTHONY L. PUNZALAN
ARCHITECT, OFDM-PDU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

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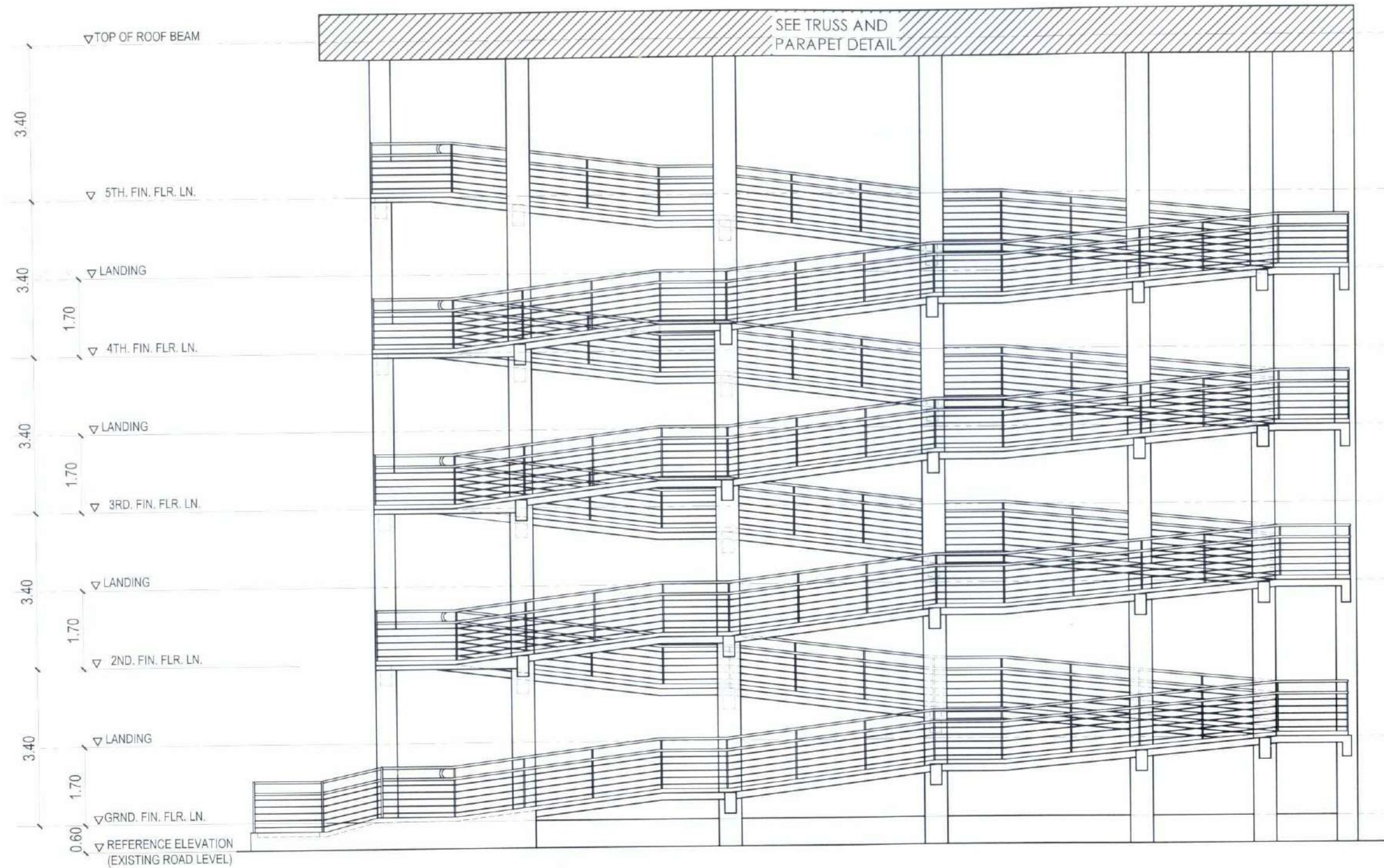
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RAMP RIGHT SIDE ELEVATION

SCALE

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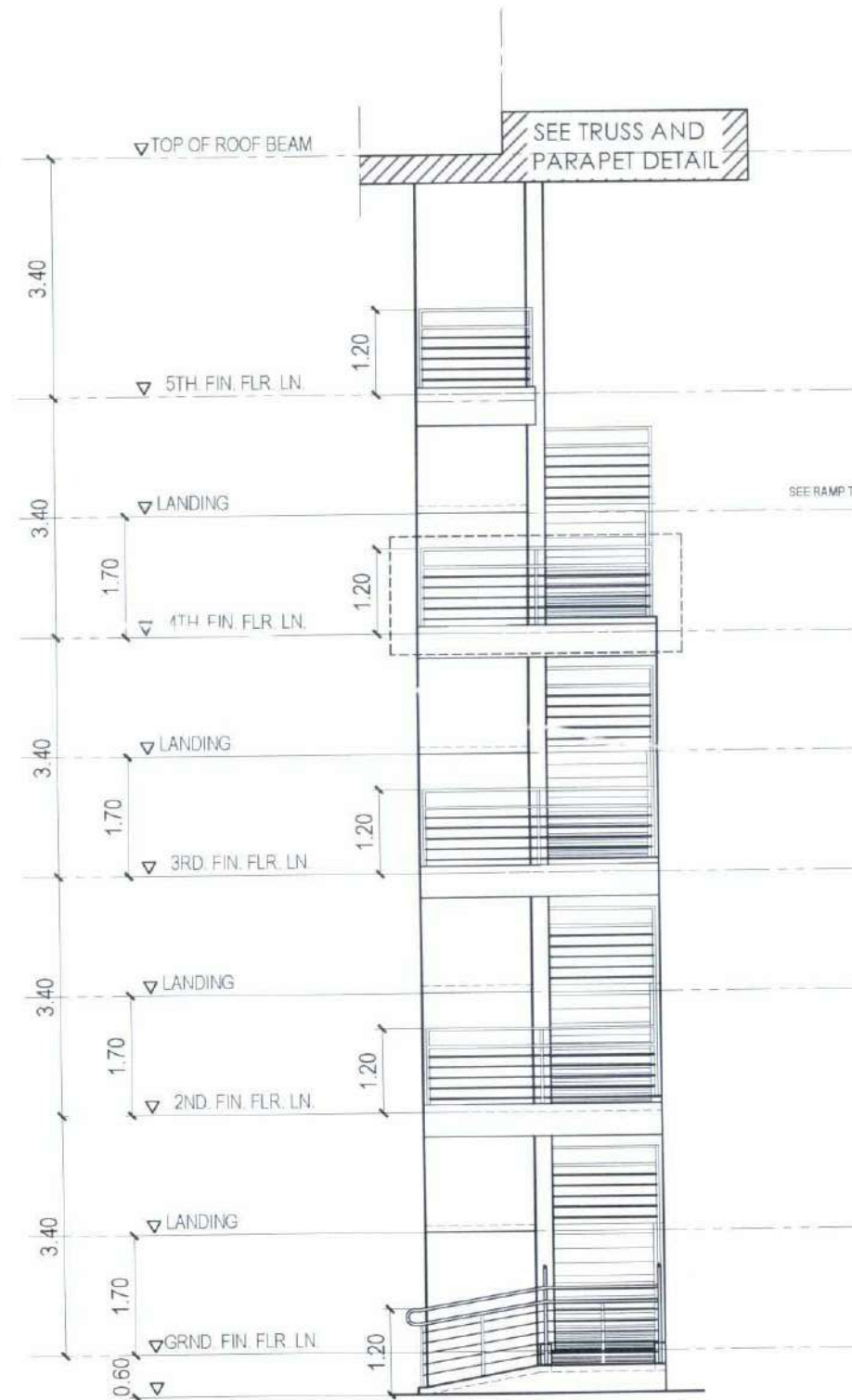
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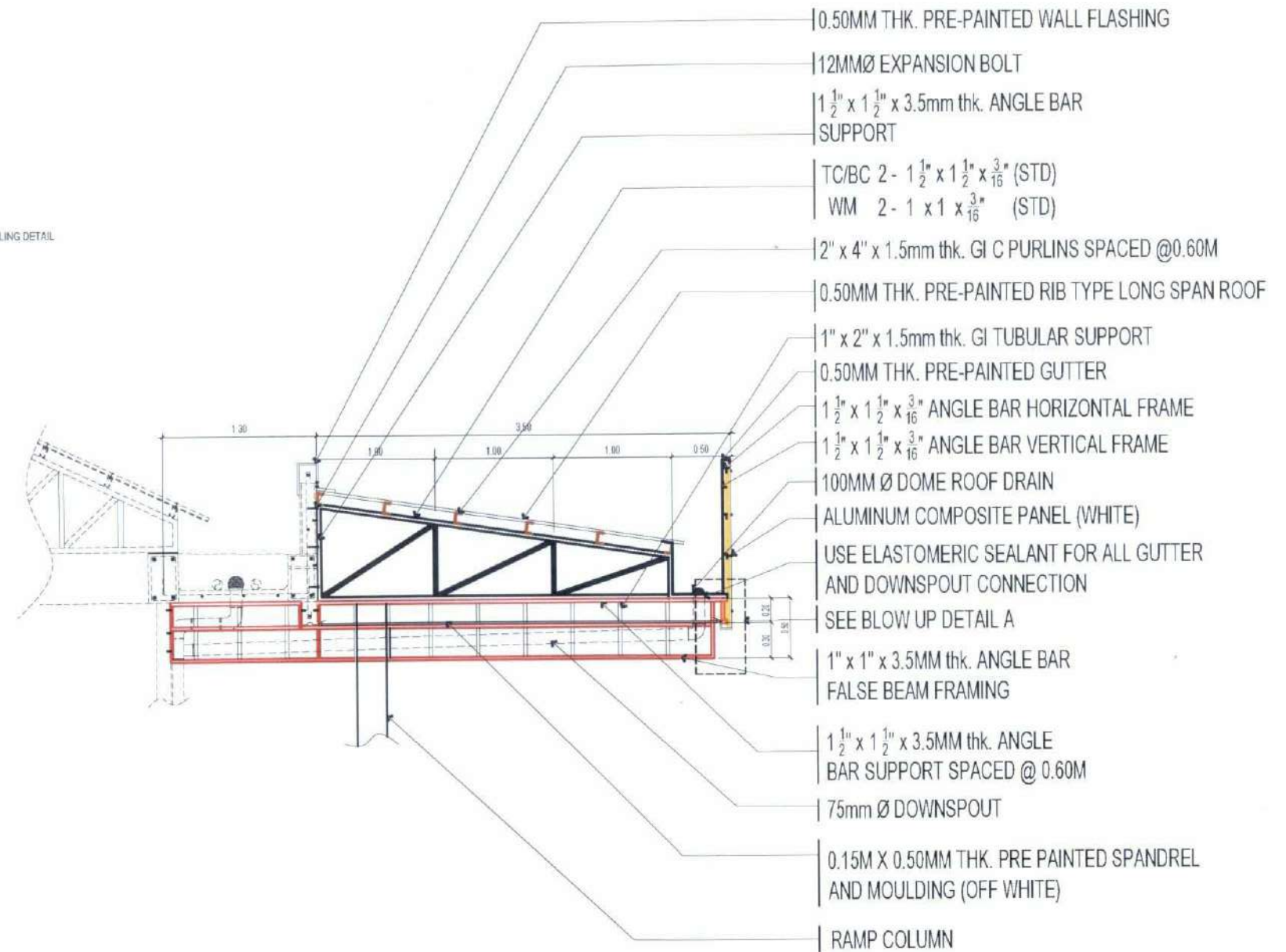
NOTE:

- APPLY 2 COATS OF EPOXY PRIMER ON ALL STEEL FRAME MEMBERS INCLUDING WELDING CONNECTIONS.
- ALL STEEL CONNECTIONS MUST BE WELEDED
- APPLY 2 TOP COATS OF QUICK DRY ENAMEL. (BLACK)
- ALL STEEL MEMBERS SHOULD BE SMOOTH PAINT FINISH.



RAMP FRONT ELEVATION

SCALE 1:100M



TYPICAL FALSE BEAM FRAMING DETAIL

SCALE 1:50M



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Facilities Development and
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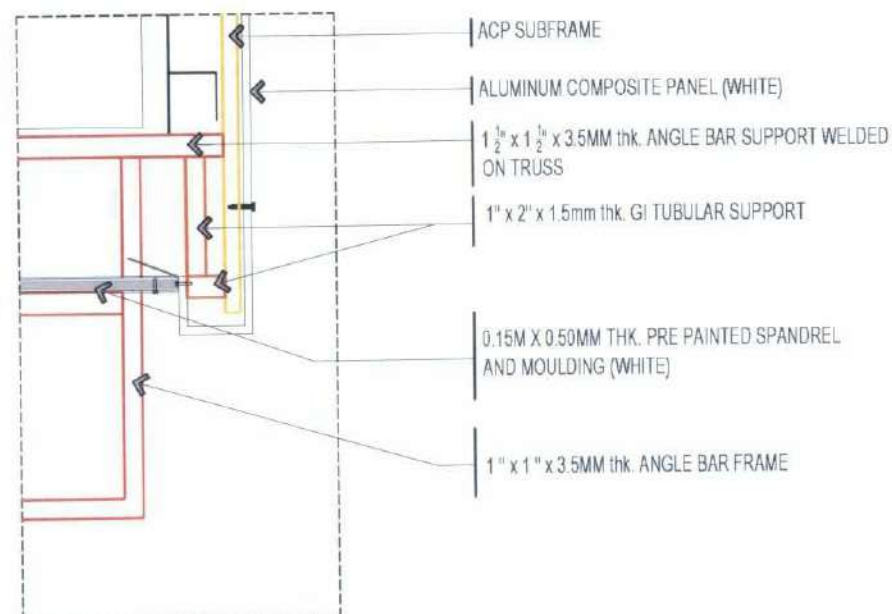
RECOMMENDING APPROVAL:
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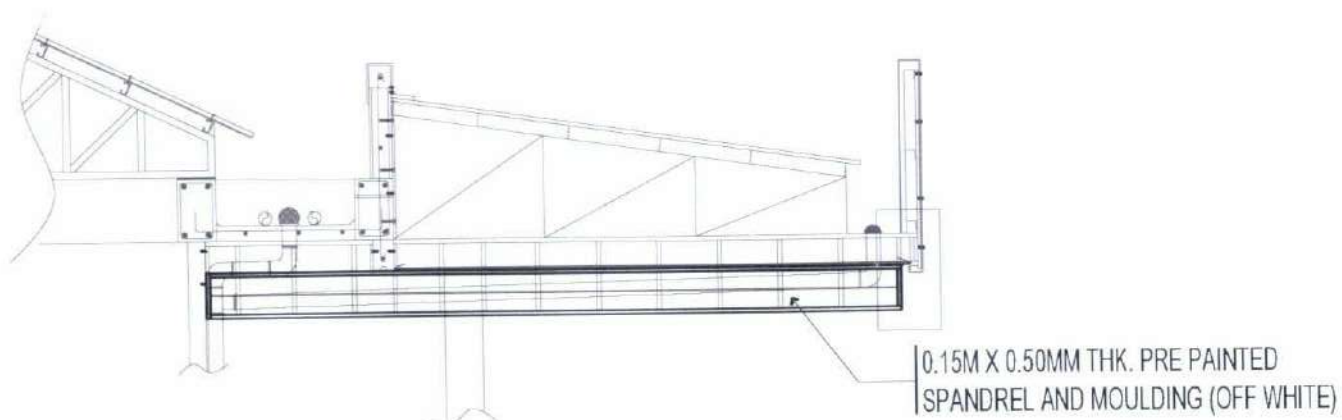
NOTE:

- APPLY 2 COATS OF EPOXY PRIMER ON ALL STEEL FRAME MEMBERS INCLUDING WELDING CONNECTIONS.
- ALL STEEL CONNECTIONS MUST BE WELEDED
- APPLY 2 TOP COATS OF QUICK DRY ENAMEL. (BLACK)
- ALL STEEL MEMBERS SHOULD BE SMOOTH PAINT FINISH.



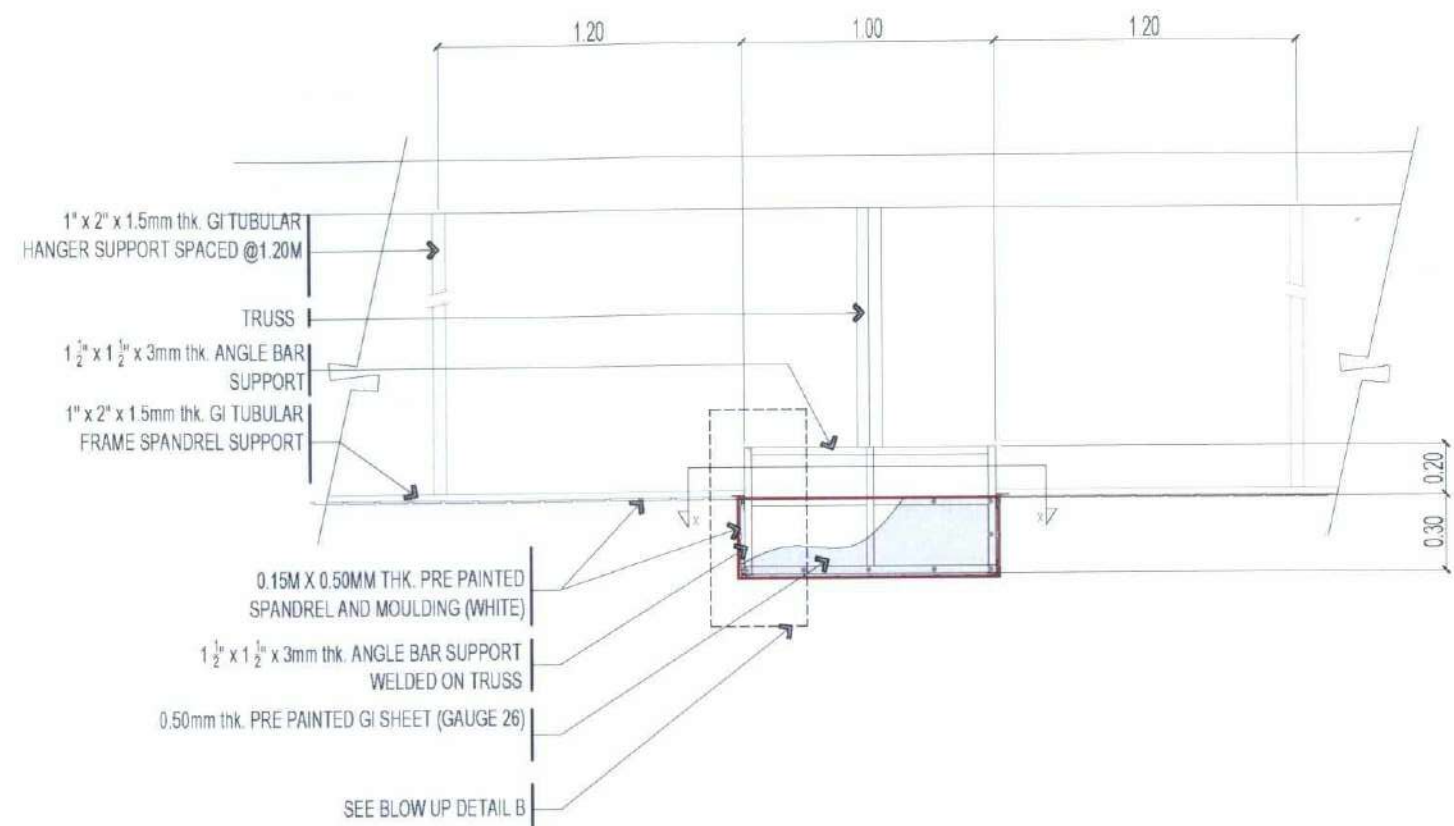
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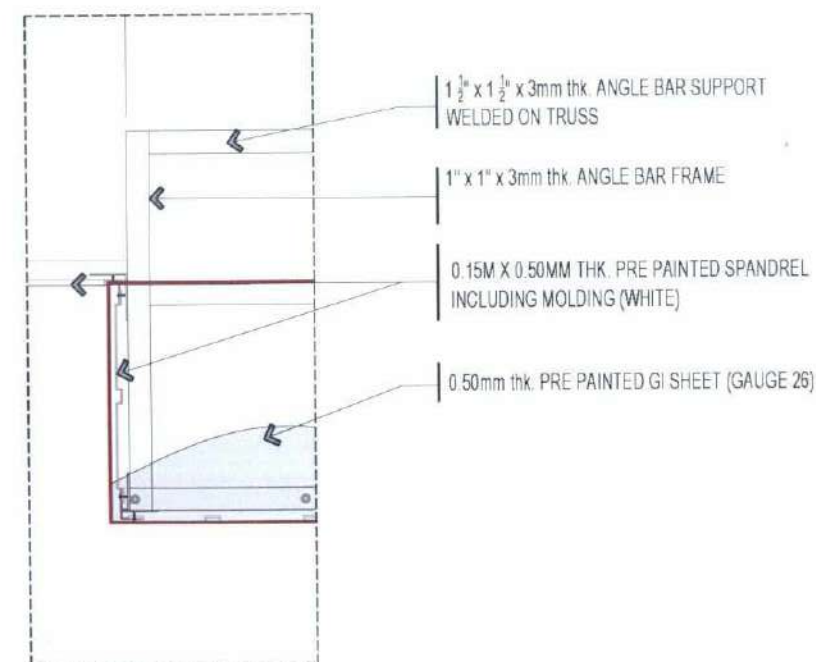
TYPICAL FALSE BEAM SPANDREL DETAIL

SCALE 1:50M



TYPICAL FALSE BEAM FRONT ELEVATION DETAIL

SCALE 1:30M



BLOW UP DETAIL B

SCALE 1:10M



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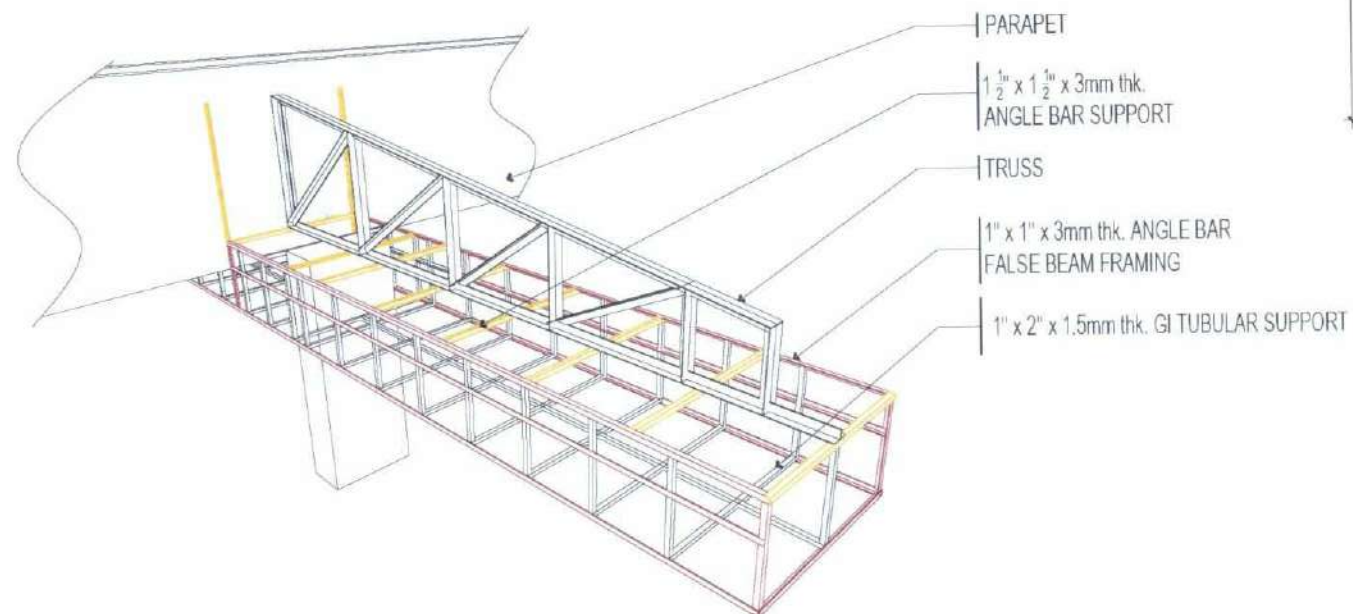
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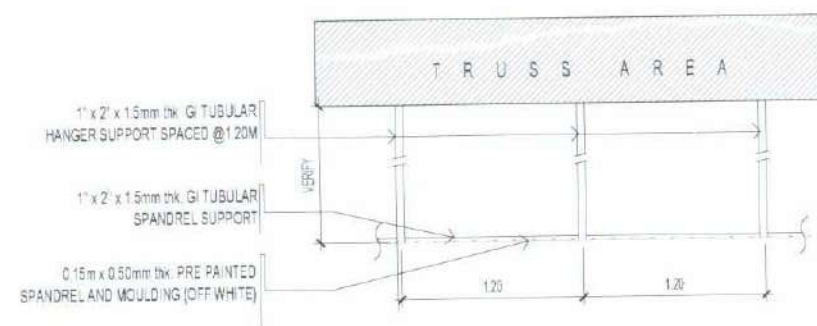
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SECTION THRU X-X
SCALE 1:30M



TYPICAL FALSE BEAM FRAMING ISOMETRIC DETAIL

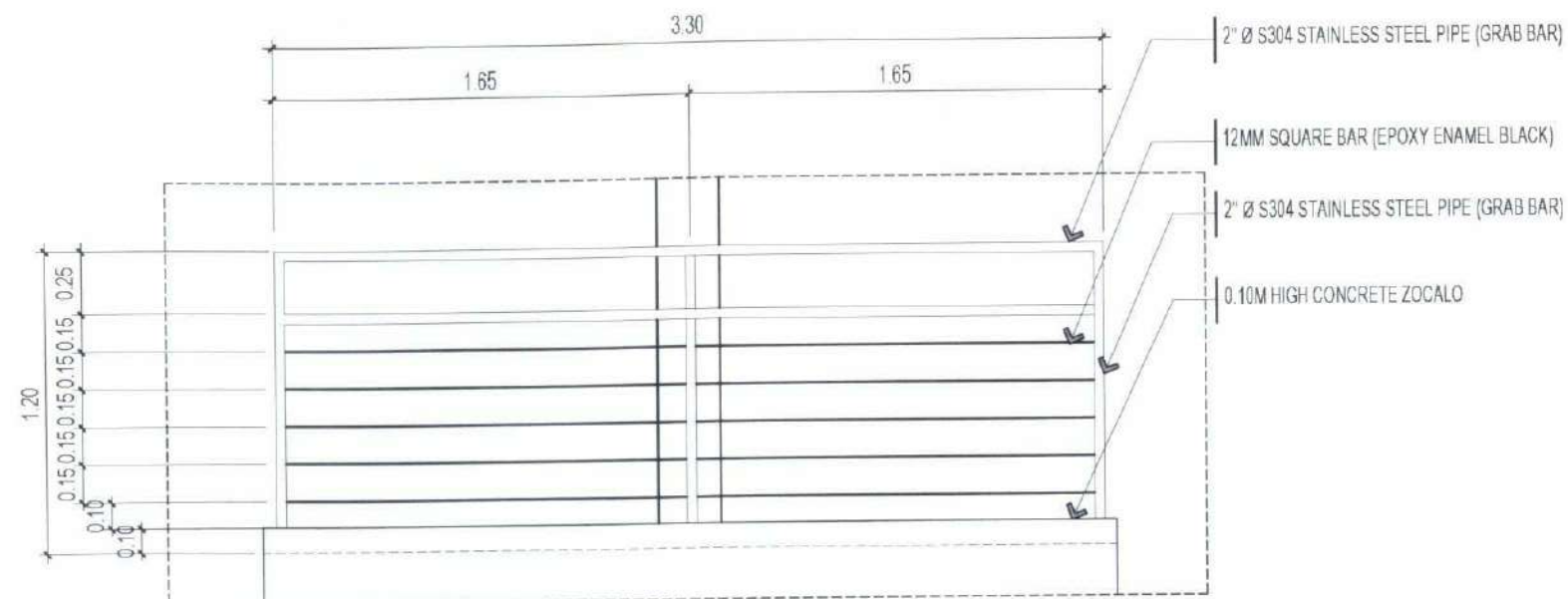
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ROOF EAVES FRAMING SECTION DETAIL

SCALE

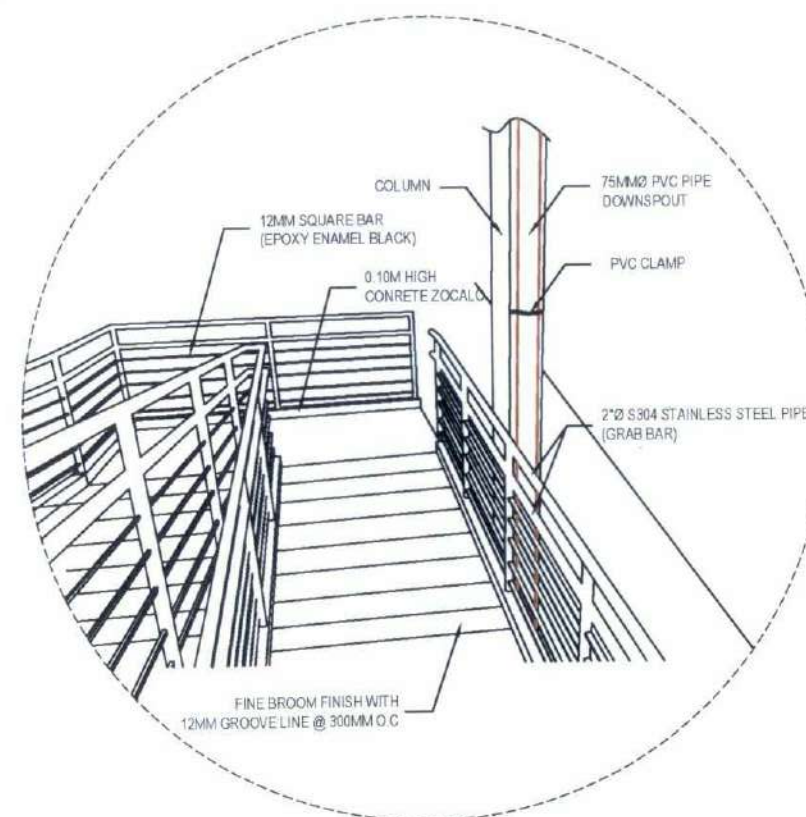
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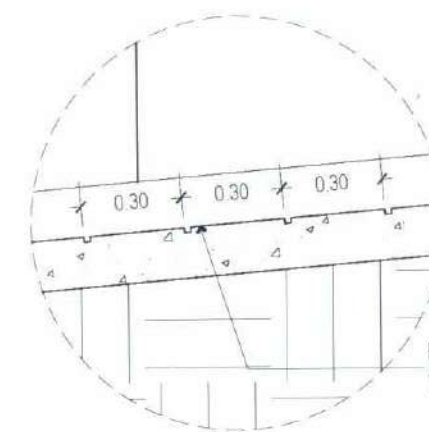
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BLOW UP DETAIL X

NTS



GROOVE BLOW UP DETAIL

SCALE

1:15M



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Facilities Development and
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CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)							AS SHOWN	A-52
PROJECT LOCATION:	AR. MARK ANTHONY L. PUNZALAN CONSTRUCTION DIVISION	AR. CHERRY L. FABIANES HEAD, OFDM-POU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. MIRIAM S. GALVEZ DEAN, COE	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	DATE: 2025	PAGE NO: 52/119
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								

STRUCTURAL - GENERAL NOTES

A. GENERAL

- A.1 THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. NONETHELESS, SPECIFIC NOTES AND DETAILS SHALL PRECEDE OVER GENERAL NOTES AND TYPICAL DETAILS.
- A.2 THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTION WITH OTHER DESIGN DRAWINGS (ARCHITECTURAL, ELECTRICAL, PLUMBING, MECHANICAL, ETC.). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE DRAWINGS INTO THEIR SHOP DRAWINGS AND CONSTRUCTION.
- A.3 CONTRACTOR SHALL STUDY THE DRAWINGS AND SPECIFICATIONS, VERIFY ALL DIMENSIONS, AND INSPECT THE FIELD CONDITIONS, REPORTING ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH ANY PHASE OF THE WORK.
- A.4 THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.
- A.5 THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES AND NOTIFY ANY CONFLICTS TO THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF EXCAVATION.
- A.6 DEMOLITION OF EXISTING STRUCTURES IF ANY SHALL NOT BE COMMENCED UNTIL PROTECTIVE MEASURES ARE SET IN PLACE. PLANS, METHODS, AND SCHEDULES OF DEMOLITION SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER.
- A.7 THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE.
- A.8 THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS FOR REQUIRED OPENINGS. MOREOVER, SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS AND LOCATION OF DEPRESSED FLOOR AREAS.
- A.9 DO NOT SCALE ANY DIMENSION FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST FROM THE ARCHITECT/ENGINEER THE NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.
- A.10 SHOP DRAWINGS OF STRUCTURAL ITEMS FOR STEEL AND CONCRETE MEMBERS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO THE FABRICATION AND CONSTRUCTION.

B. REFERENCES

- B.1 ALL CONCRETE WORKS SHALL BE DONE IN ACCORDANCE WITH:
- THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI 315-99)
 - JOINTS IN CONCRETE CONSTRUCTION (ACI 224.3R-95)
- B.2 ALL STRUCTURAL STEEL WORKS SHALL DONE IN ACCORDANCE WITH:
- SPECIFICATION FOR STRUCTURAL STEEL BUILDING (ANSI/AISC 360-16)
 - STEEL CONSTRUCTION MANUAL, 14TH EDITION

C. CONCRETE

- C.1 UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE STRUCTURAL SPECIFICATIONS, THE MINIMUM 28th DAYS COMPRESSIVE CYLINDER STRENGTH OF CONCRETE WITH CORRESPONDING MAXIMUM AGGREGATE SIZE AND SLUMP SHALL BE AS FOLLOWS.

ELEMENT	28 th DAY STRENGTH	MAX. AGGREGATE SIZE	SLUMP
FOUNDATION & WALLS	4000 PSI	3/4 in.	4 in.
COLUMNS & PEDESTALS	4000 PSI	3/4 in.	4 in.
BEAMS & GIRDERS	4000 PSI	3/4 in.	4 in.
SUSPENDED SLABS	4000 PSI	3/4 in.	4 in.
SLAB ON GRADE	3000 PSI	1 in.	4 in.
NON-STRUCTURAL ELEMENTS	2500 PSI	3/4 in.	4 in.

- C.2 CONCRETE MIX DESIGNS ALONG WITH TEST DATA SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO CONCRETE POURING.
- C.3 PRIOR TO PLACING OF CONCRETE, ALL REINFORCING STEEL BARS, ANCHOR BOLTS, DOWELS, EMBEDDED STRUCTURAL STEELS, PLATES, OR OTHER INSERTS, SHALL BE SECURED IN POSITION AND APPROVED BY THE ENGINEER.
- C.4 CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, REHANDLING OR FLOWING. PLACING SHALL BE DONE PROPERLY WITH BUGGIES, BUCKETS OR WHEEL-BORROWS.

- C.5 NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED BY ENGINEER.

- C.6 ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS BY KEEPING THE CONCRETE ELEMENT MOIST FOR AT LEAST 7 DAYS OR APPLYING LIQUID CURING COMPOUND.

- C.7 CONCRETE CYLINDERS SHALL BE FABRICATED PER EACH 40 CU. M. OR FRACTION THEREOF MIXED EACH DAY FOR EACH CLASS CONCRETE PLACED FOR EACH STRUCTURE.

- C.8 GROUT UNDER BASE PLATES SHALL BE APPROVED NON-SHRINK WITH STRENGTH AT LEAST EQUAL TO THE ON WHICH IT IS PLACED.

D. REINFORCING BARS

- D.1 REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM 615 AS FOLLOWS:

DIAMETER	GRADE
10mmØ	GRADE 40 (275 MPa)
12mmØ & ABOVE	GRADE 60 (414 MPa)

- D.2 USE GAUGE #16 OR HEAVIER FOR TIE WIRE.

- D.3 NO BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE FIELD BENT, EXCEPT AS SHOWN ON PLANS OR PERMITTED BY THE ENGINEER.

- D.4 BARS SHALL NOT BE WELDED UNLESS AUTHORIZED BY THE ENGINEER.

- D.5 ALL REINFORCING BARS SHALL BE CLEANED THOROUGHLY OF ALL LOOSE RUST, SOIL OR OTHER MATERIAL PRIOR TO CONCRETE POURING.

- D.6 MAINTAIN MINIMUM CONCRETE COVER TO TRAVERSE BARS AS FOLLOWS.

ELEMENT	CONCRETE COVER
BELOW GRADE - FOUNDATIONS & WALLS	75mm
BELOW GRADE - COLUMNS, BEAMS, GIRDERS & PEDESTALS	75mm
ABOVE GRADE - COLUMNS, BEAMS, GIRDERS & PEDESTALS	40mm
ABOVE GRADE - SUSPENDED SLABS AND WALLS	25mm
SLAB ON GRADE	40mm

- D.7 ALL LAP SPLICES OF REBARS SHALL CONFORM TO CLASS B TENSION LAP SPLICE AS SHOWN ON THE LAP SPLICE SCHEDULE, UNLESS NOTED OTHERWISE.

- D.8 ALL HOOK ENDS SHOWN ON THE DRAWINGS SHALL BE STANDARD HOOKS. ALL STIRRUPS SHALL HAVE 135° SEISMIC HOOKS, UNLESS NOTED OTHERWISE. CROSS TIES SHALL HAVE STANDARD 90° HOOK ON ONE END AND 135° SEISMIC HOOK ON THE OTHER END.

- D.9 CONSECUTIVE CROSS TIES WITH 90° AND 135° HOOK ENDS SHALL BE ALTERNATED.

E. FORMS AND SHORES

- E.1 FORMS AND SHORES SHALL BE DESIGNED TO CARRY THE LOADS COMING ONTO OR AGAINST THEM WITHOUT EXCESSIVE DEFLECTION.

- E.2 STRIPPING OF FORMS AND SHORES SHALL BE AS FOLLOWS:

FOUNDATION	1 DAY
WALLS & COLUMNS	2 DAYS
BEAMS	14 DAYS
SUSPENDED SLABS EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	14 DAYS

F. MASONRY

- F.1 ALL MASONRY UNITS SHALL BE APPROVED QUALITY, SOUND, FREE FROM CRACKS AND OTHER IMPERFECTIONS.
- F.2 NON-LOAD BEARING CONCRETE HOLLOW BLOCKS SHALL BE USED WITH A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI.

- F.3 METHOD OF SAMPLING FOR QUALITY TEST SHALL BE ONE (1) QUALITY TEST FOR EVERY 10,000 UNITS OR FRACTION THEREOF, WITH THREE (3) SPECIMENS FOR COMPRESSION TEST.

- F.4 CHB WALLS SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	HORIZONTAL REINFORCEMENT	VERTICAL REINFORCEMENT
100mm	10mmØ @ 500mm O.C.	10mmØ @ 500mm O.C.
125mm	10mmØ @ 500mm O.C.	10mmØ @ 500mm O.C.
150mm	10mmØ @ 400mm O.C.	10mmØ @ 400mm O.C.
200mm	10mmØ @ 400mm O.C.	10mmØ @ 400mm O.C.

- F.5 ALL MASONRY WORKS SHALL BE LAID TRUE TO LINE, LEVEL, PLUMB AND NEAT IN ACCORDANCE WITH THE PLANS. DAMAGED UNITS SHALL NOT BE USED. UNITS SHALL BE CUT ACCURATELY TO FIT ALL PLUMBING DUCTS, AND OPENING FOR ELECTRICAL WORKS; ALL HOLES SHALL BE NEATLY PATCHED.

- F.6 NO CONSTRUCTION SUPPORT SHALL BE ATTACHED TO THE CHB WALL EXCEPT WHERE SPECIFICALLY PERMITTED BY THE ENGINEER.

- F.7 UNITS SHALL BE PLACED WHILE THE MORTAR IS SOFT AND PLASTIC, AND SHALL BE USED WITHIN 2.5 HOURS OF INITIAL MIXING. MORTAR THAT HAS STIFFENED SHOULD NOT BE USED. ANY UNIT DISTURBED TO THE EXTENT THAT THE INITIAL BOND IS BROKEN AFTER INITIAL POSITIONING SHALL BE REMOVED AND RE-LAID IN FRESH MORTAR.

- F.8 MORTAR FOR CELLS OF CONCRETE HOLLOW BLOCKS SHALL CONSIST OF ONE (1) PART CEMENT TO THREE (3) PARTS SAND BY VOLUME WITH SUFFICIENT WATER. IT SHALL BE A WORKABLE CEMENT-SAND MIXTURE ATTAINING A 28th DAY COMPRESSIVE STRENGTH OF 1500 PSI.

- F.9 ALL CELLS OF CHB UNITS SHALL BE FULLY GROUTED.

- F.10 WHERE CHB WALLS ADJOIN COLUMNS, BEAMS, AND WALLS, DOWELS WITH THE SAME SIZE AS THE VERTICAL OR HORIZONTAL REINFORCEMENTS SHALL BE PROVIDED.

- F.11 MORTAR FOR PLASTERING SHALL BE PROPORTIONED ONE (1) PART CEMENT TO TWO (2) PARTS SAND WITH SUFFICIENT WATER.

G. STRUCTURAL STEEL

- G.1 ALL STRUCTURAL STEELS SHALL CONFORM TO ASTM A36 HAVING A MINIMUM YIELD STRENGTH OF 36 KSI, UNLESS NOTED OTHERWISE.

- G.2 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36.

- G.3 HIGH STRENGTH BOLTS SHALL BE USED SHALL CONFORM TO ASTM A325 OR ASTM A490.

- G.4 ALL WASHERS SHALL CONFORM TO ASTM F436.

- G.5 ALL NUTS SHALL CONFORM TO ASTM A563.

- G.6 USE E70XX OR E71XX, 70 KSI STRENGTH ELECTRODES, UNLESS NOTED OTHERWISE. TEMPORARY WELDS AND ASSEMBLY ATTACHMENTS SHALL BE KEPT TO A MINIMUM.

- G.7 WELDING SHALL BE DONE IN ACCORDANCE WITH APPROPRIATE WELD PROCEDURE SPECIFICATIONS (WPS).

- G.8 WELDING SHALL CONFORM TO BE DONE WITH AMERICAN WELDING SOCIETY (AWS) STANDARDS.

- G.9 FABRICATORS SHALL BE QUALIFIED WELDERS WITH AUTHENTIC CERTIFICATES.

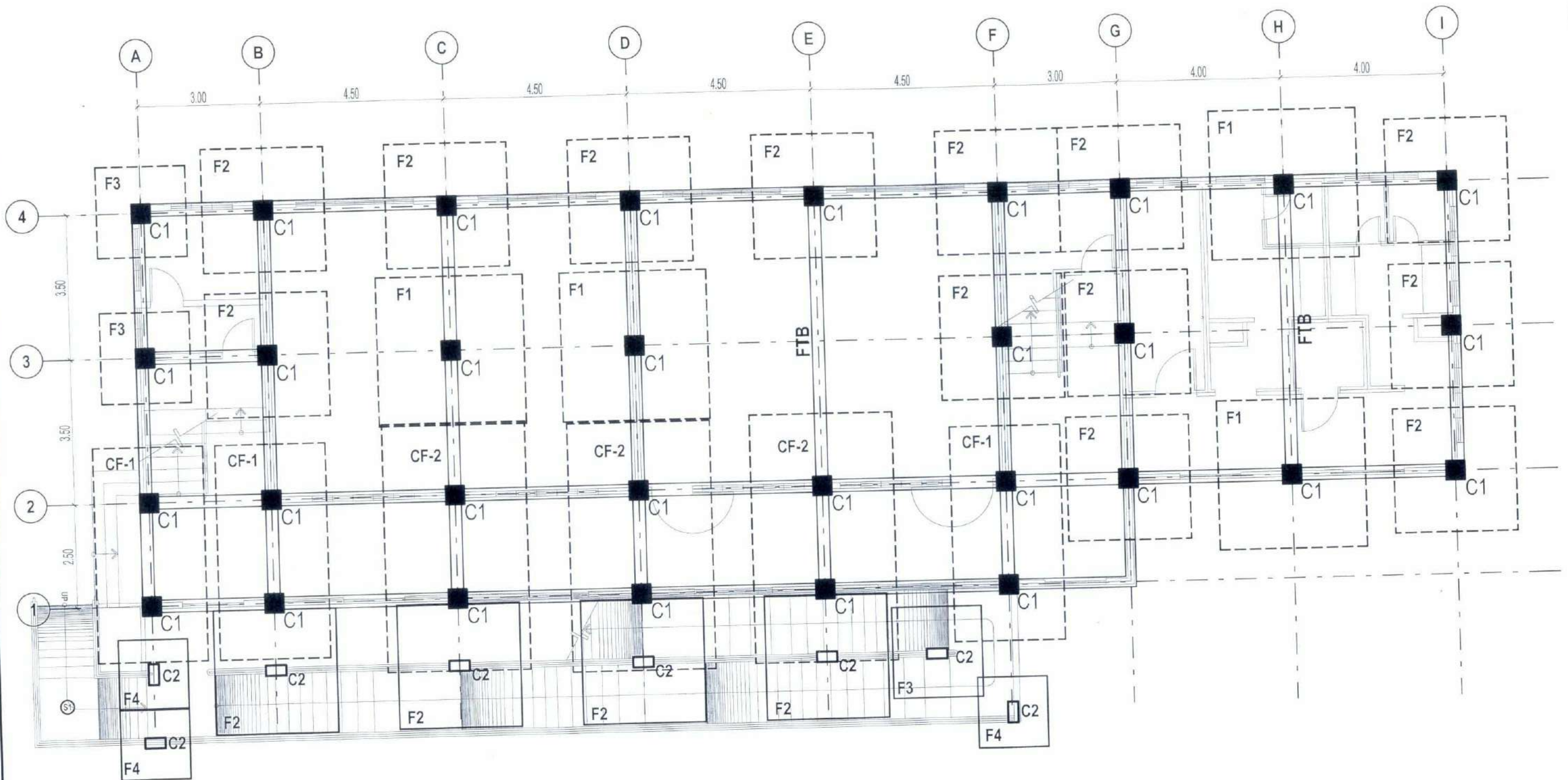
- G.10 SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MEMBER. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED.

- G.11 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO THE FABRICATION AND ERECTION.

- G.12 STEEL MEMBERS TO BE ENCASE IN CONCRETE SHALL NOT BE PAINTED. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL HAVE AT LEAST TWO COATS OF APPROVED PRIMER PAINT.

- G.13 CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SAFETY PROTECTION FOR ERECTION.

		TARLAC STATE UNIVERSITY Facilities Development and Management Office Normalo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO.:
			CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	AR. JULYSSA B. CALUYA ARCHITECT, OTHAP-01	AR. CHERRY L. FABIANES HEAD, OFDM-POU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. MIRIAM S. GALVEZ DEAN, COE	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	S-01
			PROJECT LOCATION:	ENGR. ALEXANDER JHON S. TABAQUERO ENR, ENGINEER, OTHAP-01						DATE: 2025	PAGE NO.:
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GROUND FLOOR FOUNDATION PLAN

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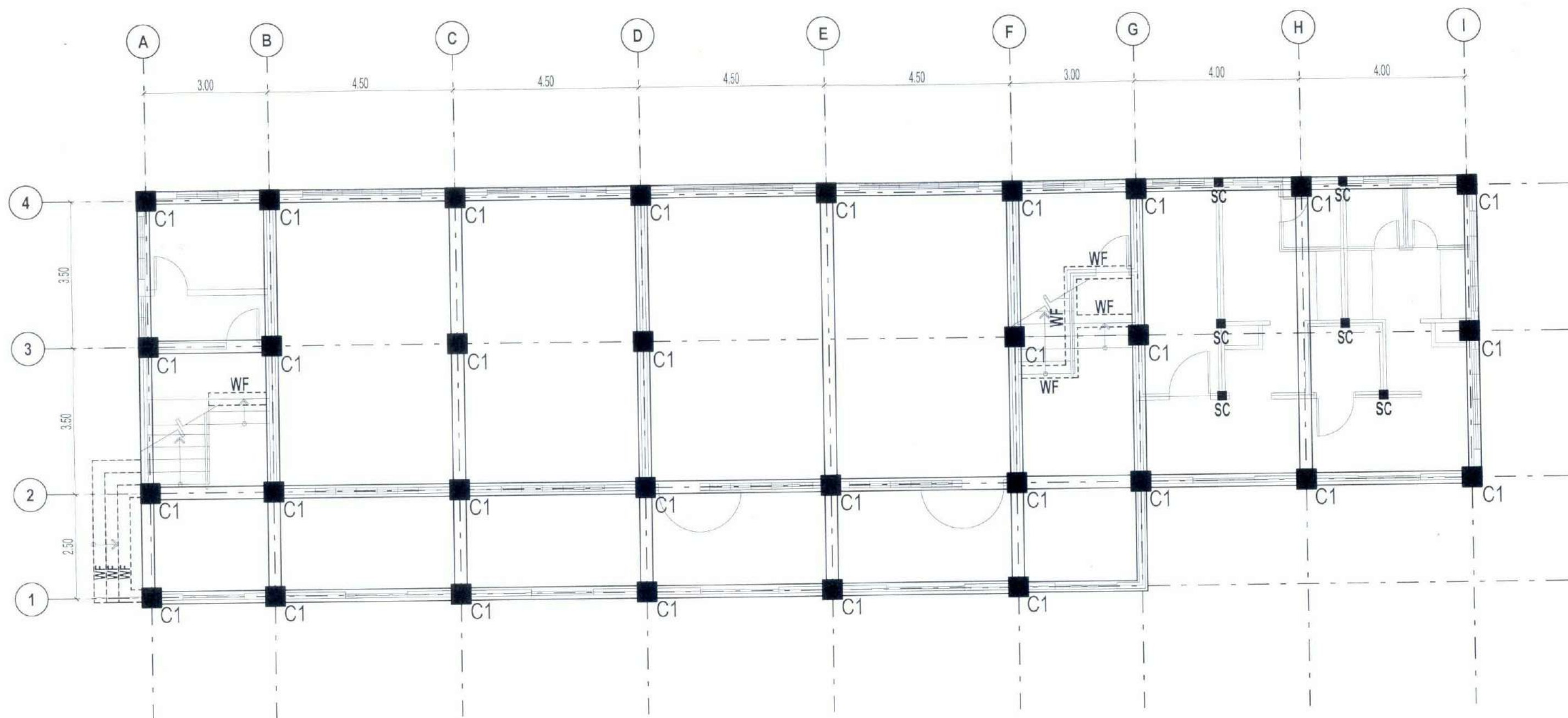
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GROUND FLOOR WALL FOOTING PLAN

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HEAD, OFDM-PDU

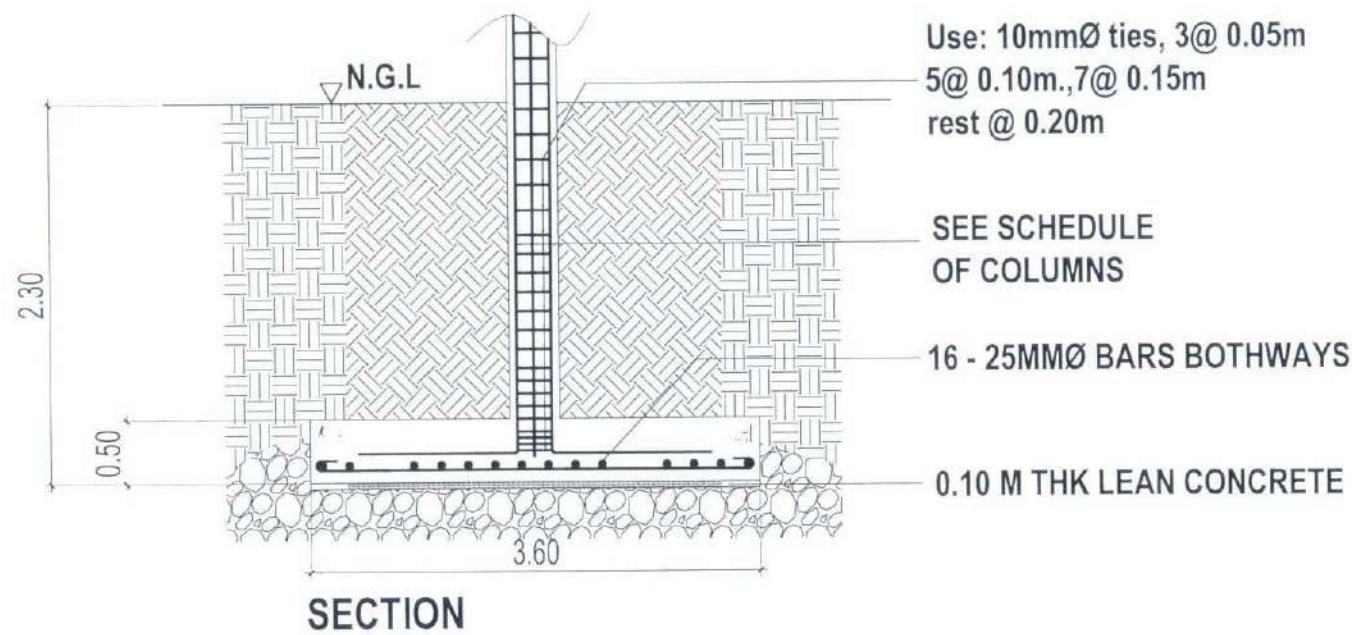
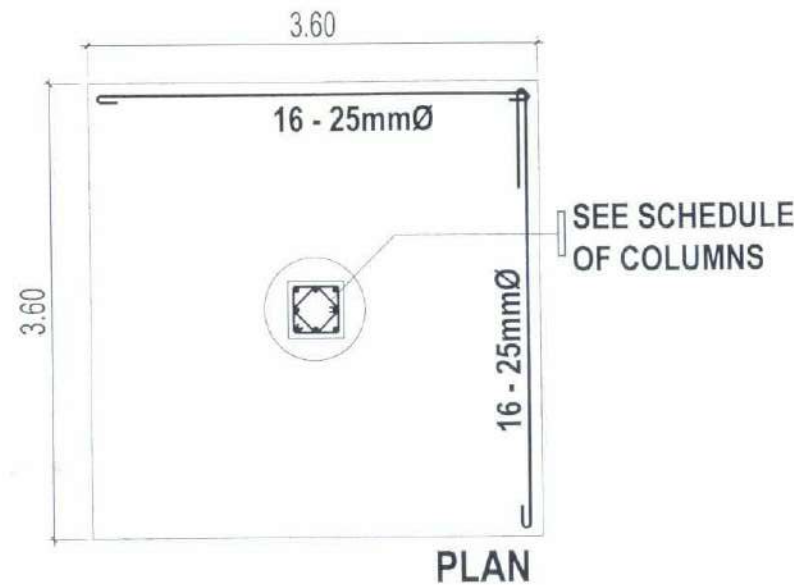
CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

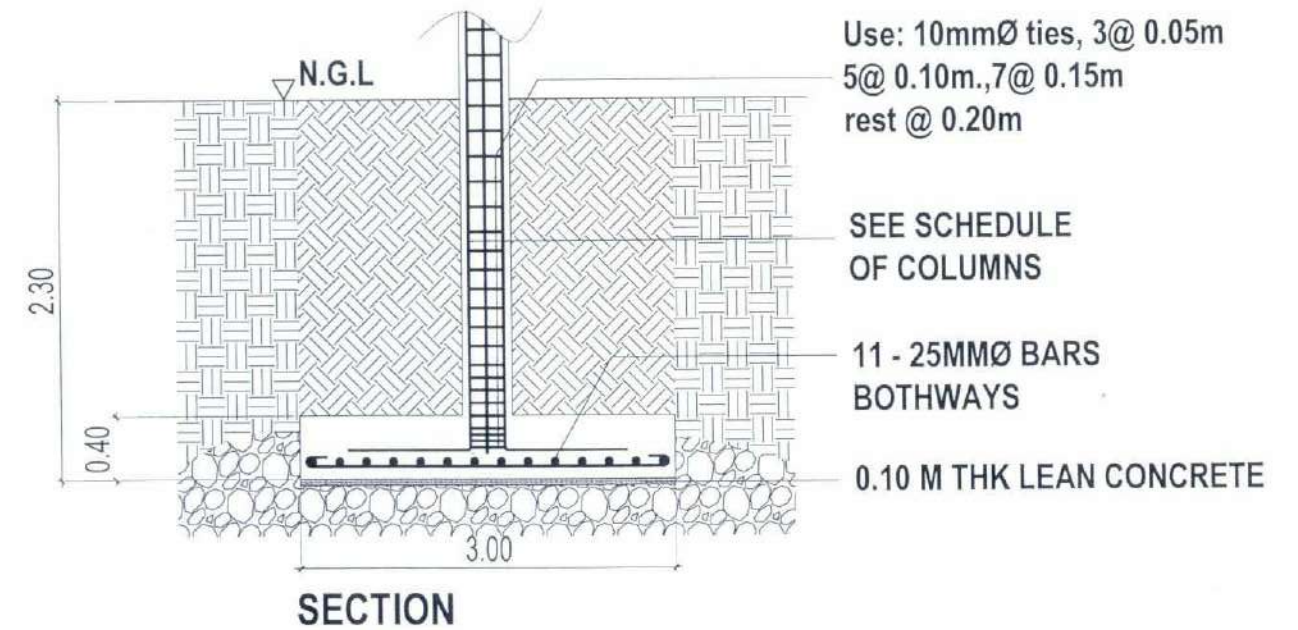
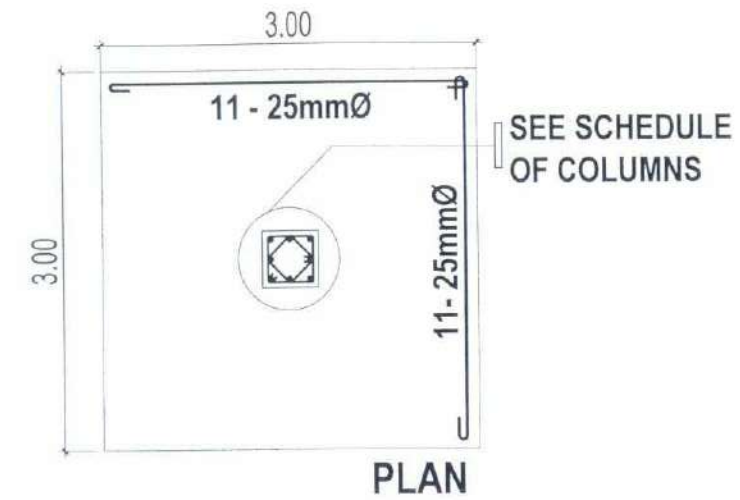
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025
SHEET NO.:
S-03
PAGE NO.:
55/119



COLUMN 1 FOOTING 1

SCALE 1:60M



COLUMN 1 FOOTING 2

SCALE 1:60M

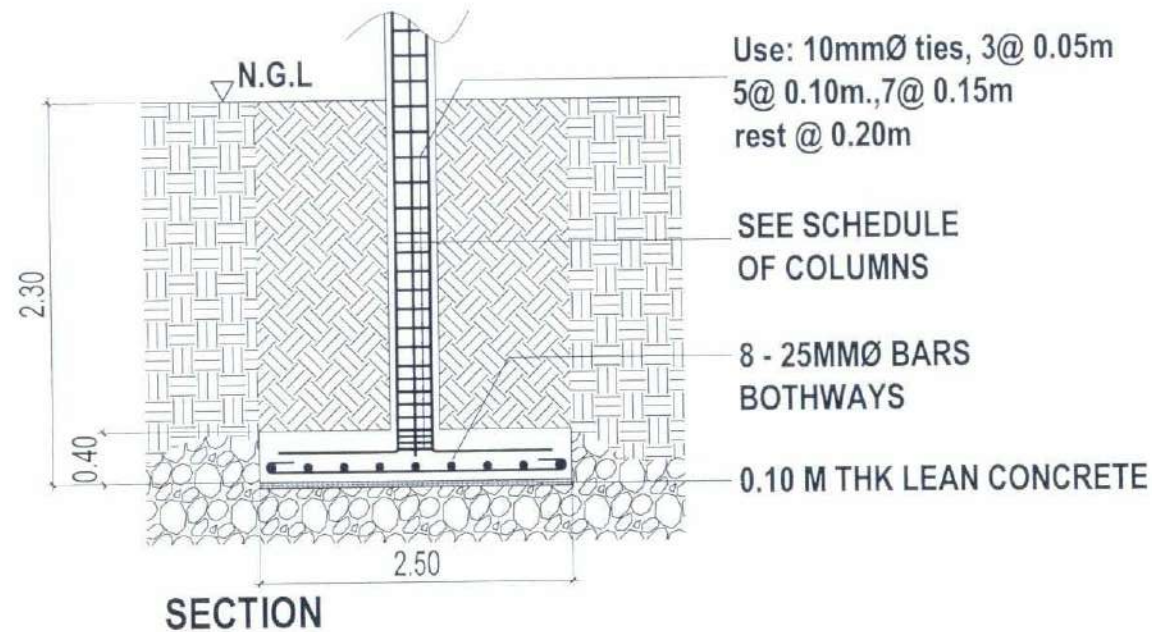
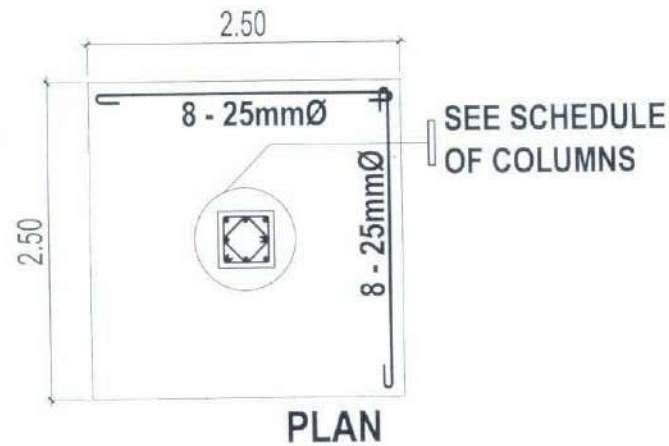


TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO: S-04 PAGE NO: 56/119
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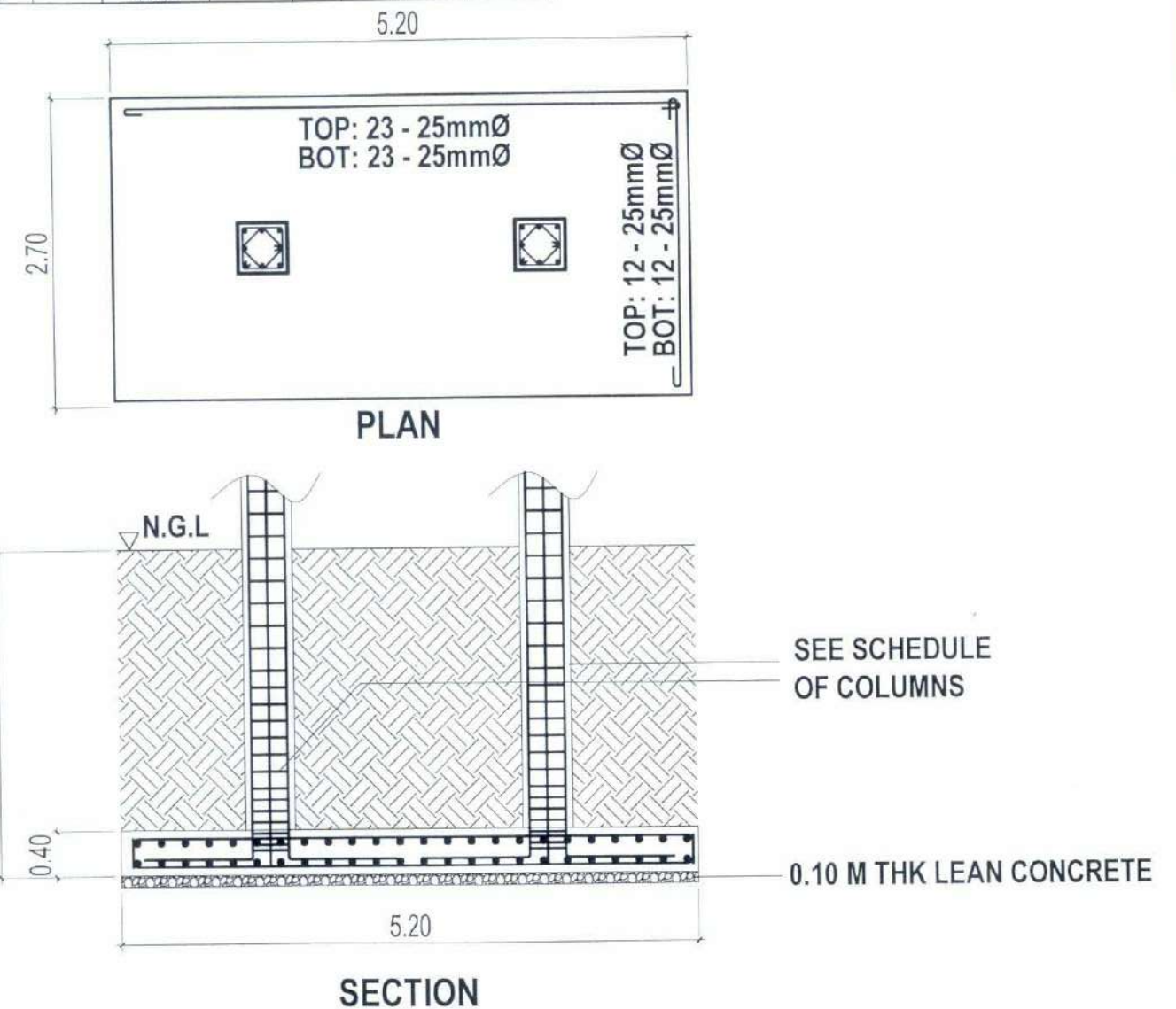
SCHEDULE OF COLUMNS

SCHEDULE OF COLORING														TIES			
MARK	ILLUSTRATION												DIA	NO.	SPACING	REMARKS	
	SECTION (Footing - Grade)	VERTICAL REINF	SECTION (Grade-2nd)	VERTICAL REINF	SECTION (2nd - 3rd)	VERTICAL REINF	SECTION (3rd- 4th)	VERTICAL REINF	SECTION (4th- 5th)	VERTICAL REINF	SECTION (5th- roof)	VERTICAL REINF					
COLUMN 1		8-25mm		8-25mm		8-25mm		8-25mm		8-25mm		8-25mm	10mm	2	50		
													8	75			
													REST	150			
													SPICING	100			
	450x450		450x450		450x450		450x450		450x450		450x450						
MARK	ILLUSTRATION												DIA	NO.	SPACING	REMARKS	
	SECTION (Footing - Grade)	VERTICAL REINF	SECTION (Grade-2nd)	VERTICAL REINF	SECTION (2nd - 3rd)	VERTICAL REINF	SECTION (3rd- 4th)	VERTICAL REINF	SECTION (4th- 5th)	VERTICAL REINF	SECTION (5th- roof)	VERTICAL REINF					
COLUMN FOR RAMP (C2)		2-25mm		2-25mm		2-25mm		2-25mm		2-25mm		2-25mm	10mm	2	50		
		2-20mm		2-20mm		2-20mm		2-20mm		2-20mm		8	75				
												REST	150				
												SPICING	100				
	250x500		250x500		250x500		250x500		250x500		250x500						



COLUMN 1 FOOTING 3

SCALE 1:60M



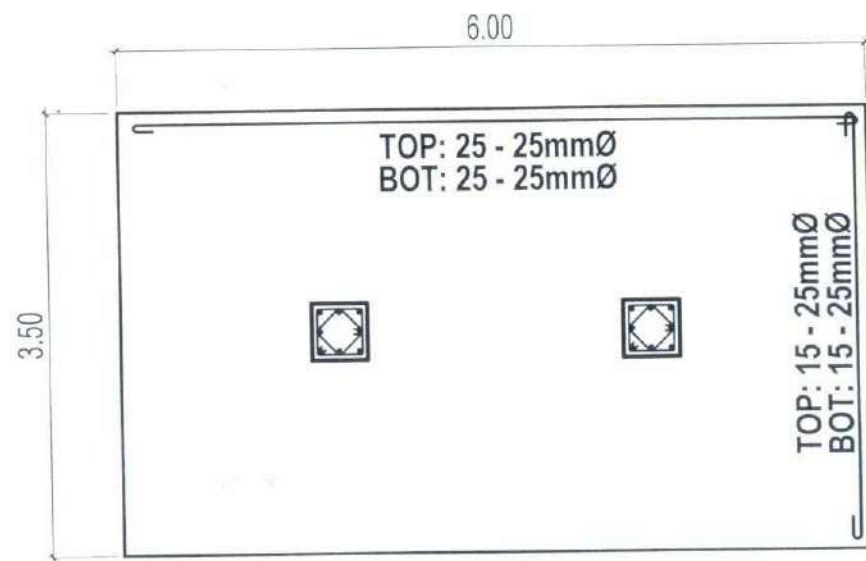
COMBINED FOOTING 1

SCALE 1:60M

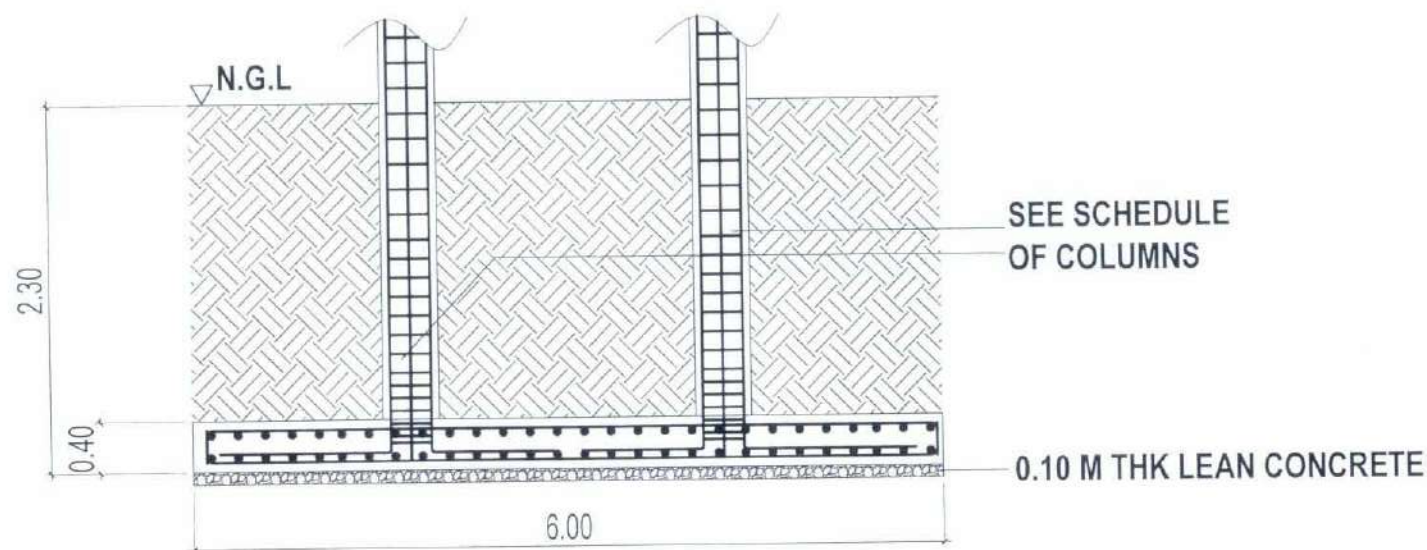


TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: AR. HILYBES B. CALUYA ARCHITECT, OFDM-PU	CHECKED BY: 	CERTIFIED BY: 	REQUESTING OFFICE: 	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: 	SHEET CONTENTS: AS SHOWN	SHEET NO.: S-05
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	ENGR. ALEXANDER J. HON S. TABAQUERO CIVIL ENGINEER, OFDM-MU	AR. CHERRY L. FABIANES HEAD, OFDM-PU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. MIRIAM S. GALVEZ DEAN, COE		DR. ARNOLD E. VELASCO PRESIDENT	DATE: 2025	PAGE NO.: 57/119



PLAN

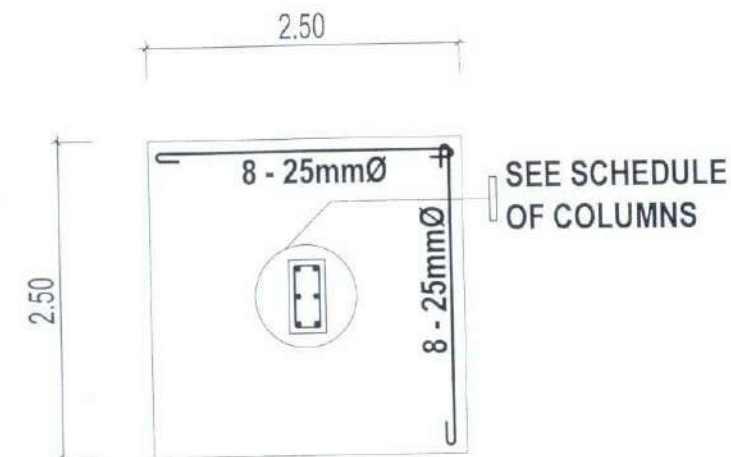


SECTION

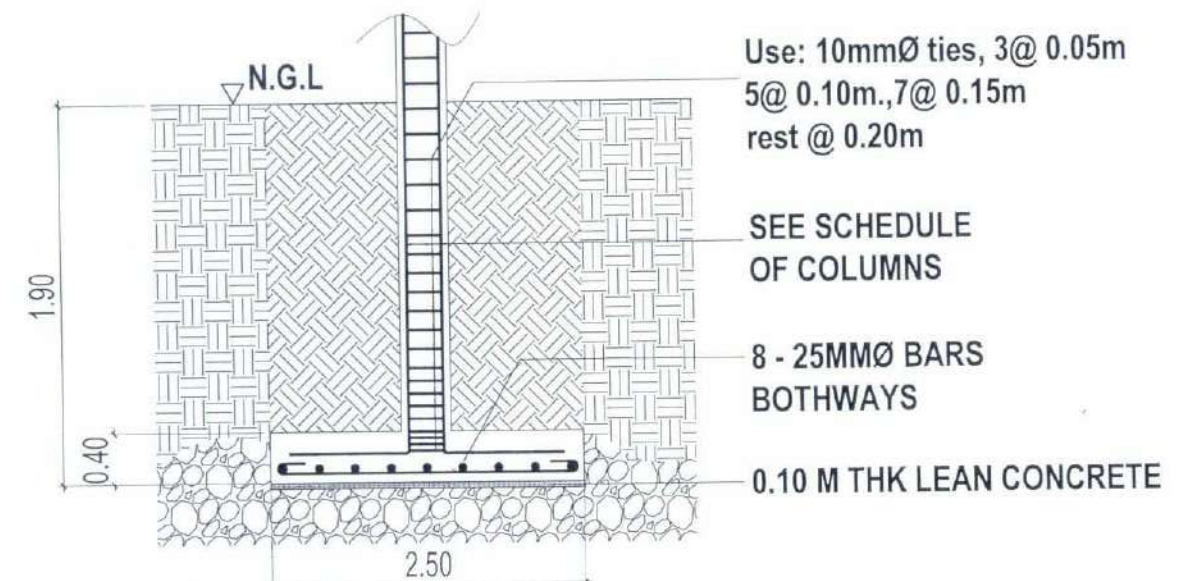
COMBINED FOOTING 2

SCALE

1:60M



PLAN



SECTION

COLUMN 2 FOOTING 3

SCALE

1:60M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. OLYSSES B. CALITA
ARCHITECT, OFDM-PDU
ENGR. ALEXANDER JON S. TABAQUERO
CIVIL ENGINEER, OFDM-MU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

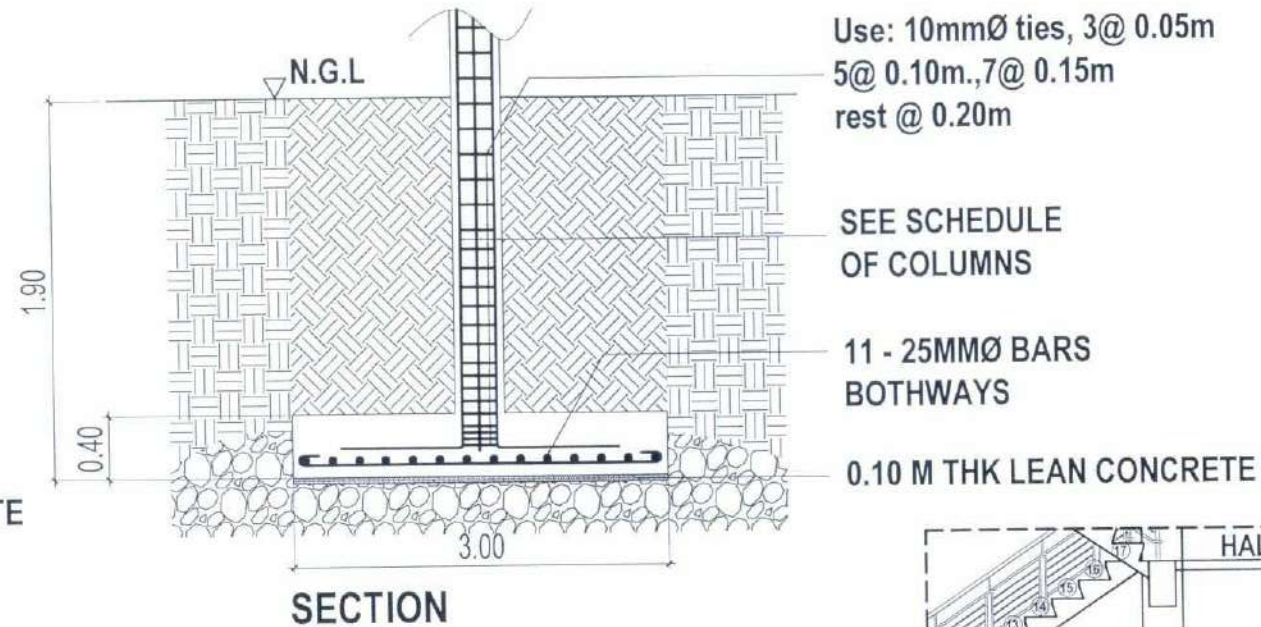
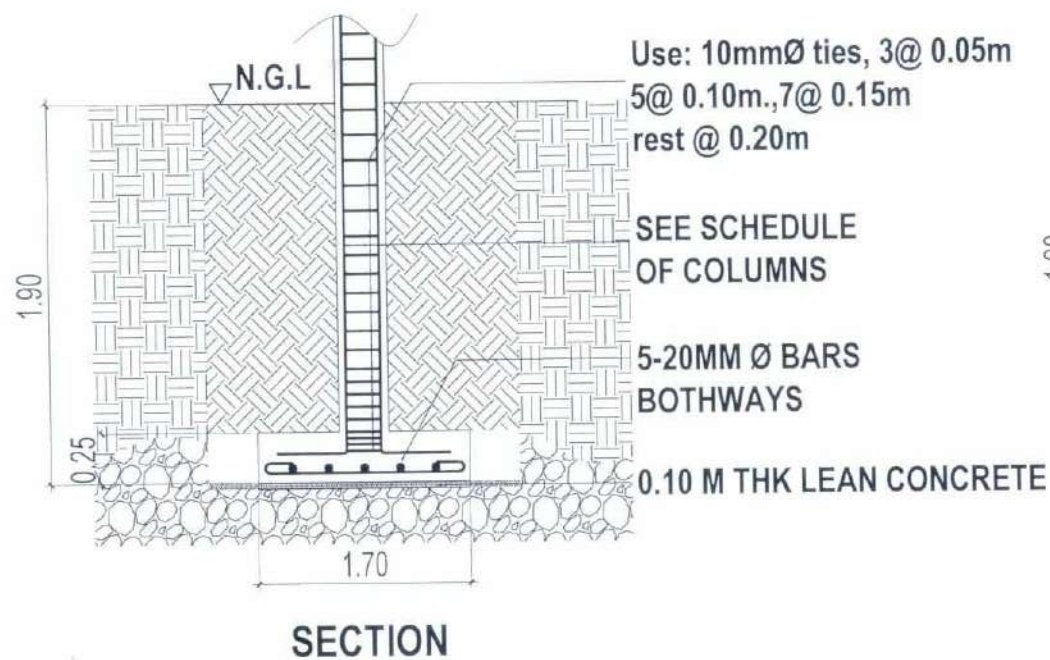
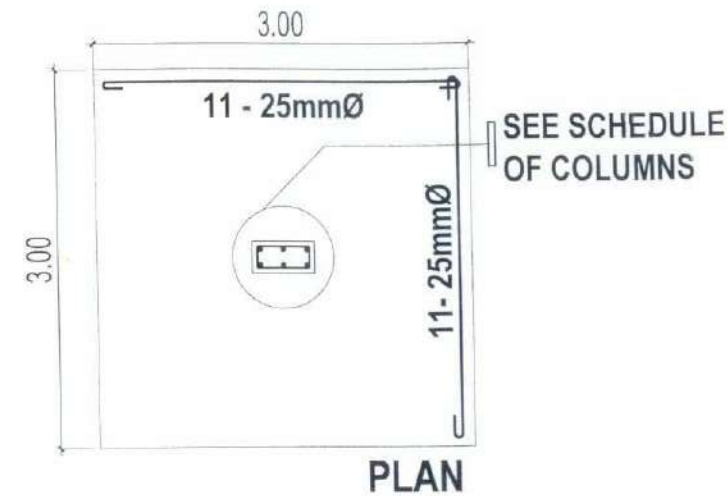
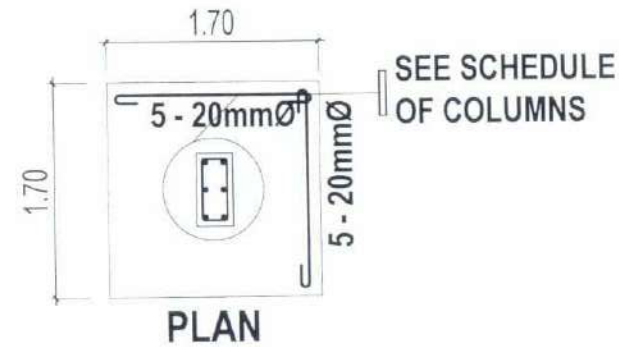
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

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COLUMN 2 FOOTING 4

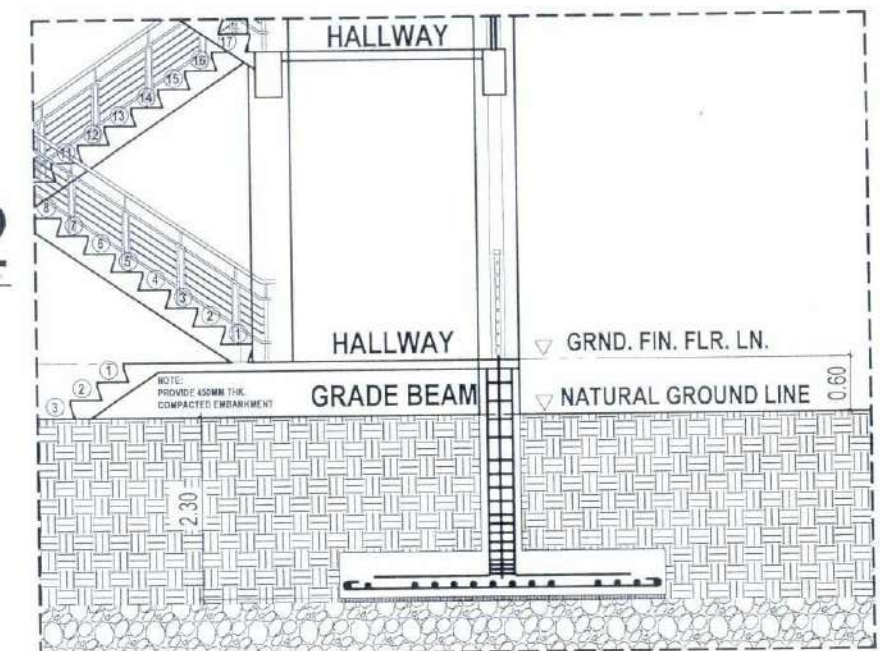
SCALE 1:60M

COLUMN 2 FOOTING 2

SCALE 1:60M

SCHEDULE OF FOOTING TIE BEAMS

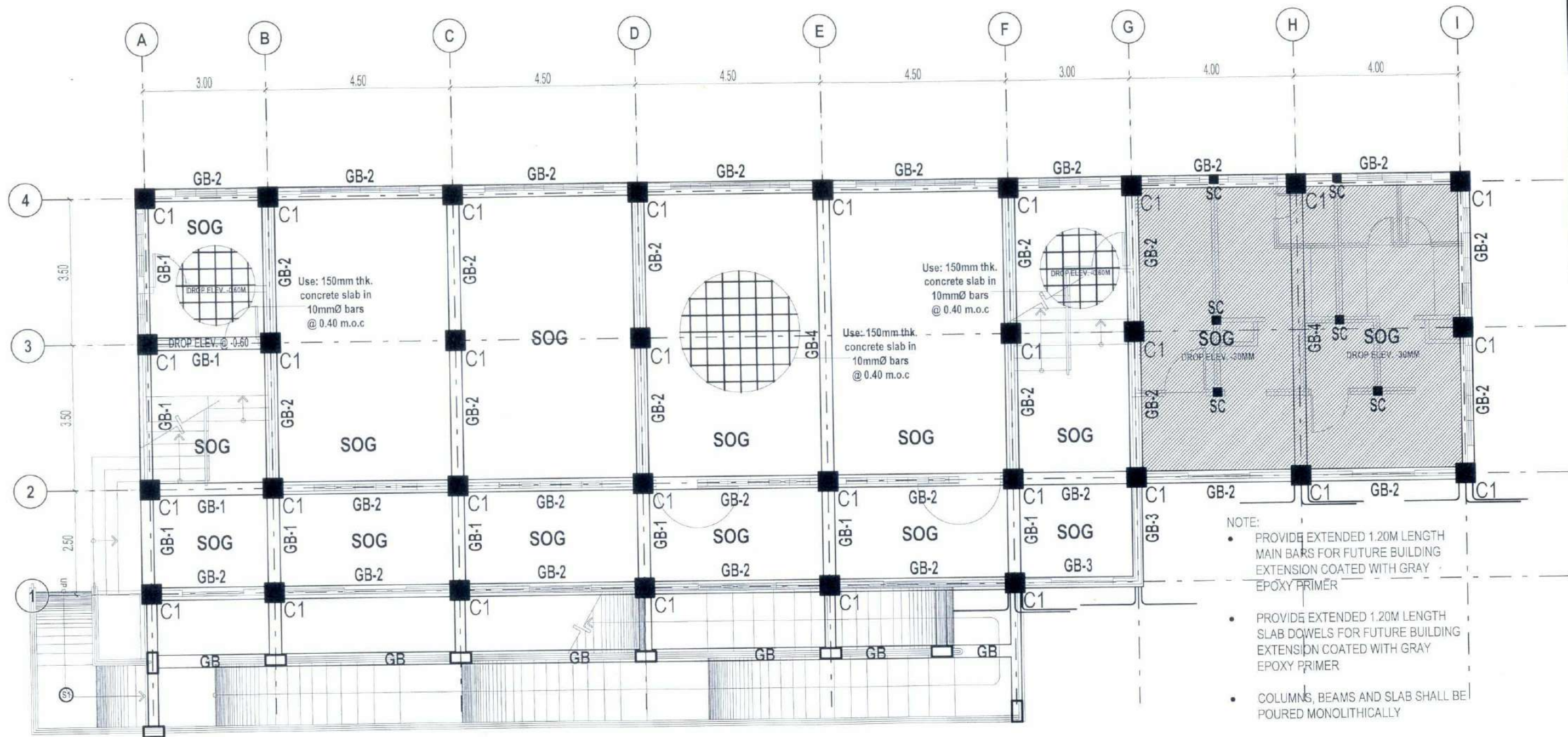
MARK	EXT SUPPORT			MIDSPAN		STIRRUPS			REMARKS
	CONT'. BARS	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
FTB	2-16mm top		2-16mm		2-16mm	10mm	1	50	
							7	100	
							2	150	
	2-16mm bot.		2-16mm		2-16mm		1	200	
							REST		
		350x400		350x400					



SECTIONAL ELEVATION

SCALE : 1:60M

NOTE:
COLUMNS, BEAMS AND SLAB SHALL BE POURED MONOLITHICALLY.



GROUND FLOOR GRADE BEAM PLAN

SCALE : 1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
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Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. JESSES B. CALUYA
ARCHITECT OF SAN ISIDRO
ENGR. ALEXANDER WILSON S. TABAQUERO
CIVIL ENGINEER (R070A-180)

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
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PAGE NO:
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SCHEDULE OF GROUND FLOOR GRADE BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
GB-1			3-25mm		3-25mm		3-25mm	10mm	2	50	
	3-25mm top								10	100	
									REST	150	
	2-20mm bot.		2-20mm		2-20mm		2-20mm		SPLICE	100	
		300x500		300x500		300x500					
GB-2			3-20mm		3-20mm		3-20mm	10mm	2	50	
	3-20mm top		2-16mm		2-16mm		2-16mm		10	100	
	2-16mm mid		2-20mm		2-20mm		2-20mm		REST	150	
	2-20mm bot.								SPLICE	100	
		300x500		300x500		300x500					
GB-3			2-25mm		2-25mm		2-25mm	10mm	2	50	
	2-25mm top		4-16mm		4-16mm		4-16mm		10	100	
	4-16mm mid		2-20mm		2-20mm		2-20mm		REST	150	
	2-20mm bot.								SPLICE	100	
		250x500		250x500		250x500					
GB-4			5-25mm		3-25mm		5-25mm	10mm	2	50	
	3-25mm top								10	100	
									REST	150	
	2-20mm bot.		2-20mm		3-20mm		2-20mm		SPLICE	100	
		300x500		300x500		300x500					



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. JESSE B. CALUYA
ENGR. ALEXANDER JON S. TABAQUERO
HEAD, OFDM FDU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM FDU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

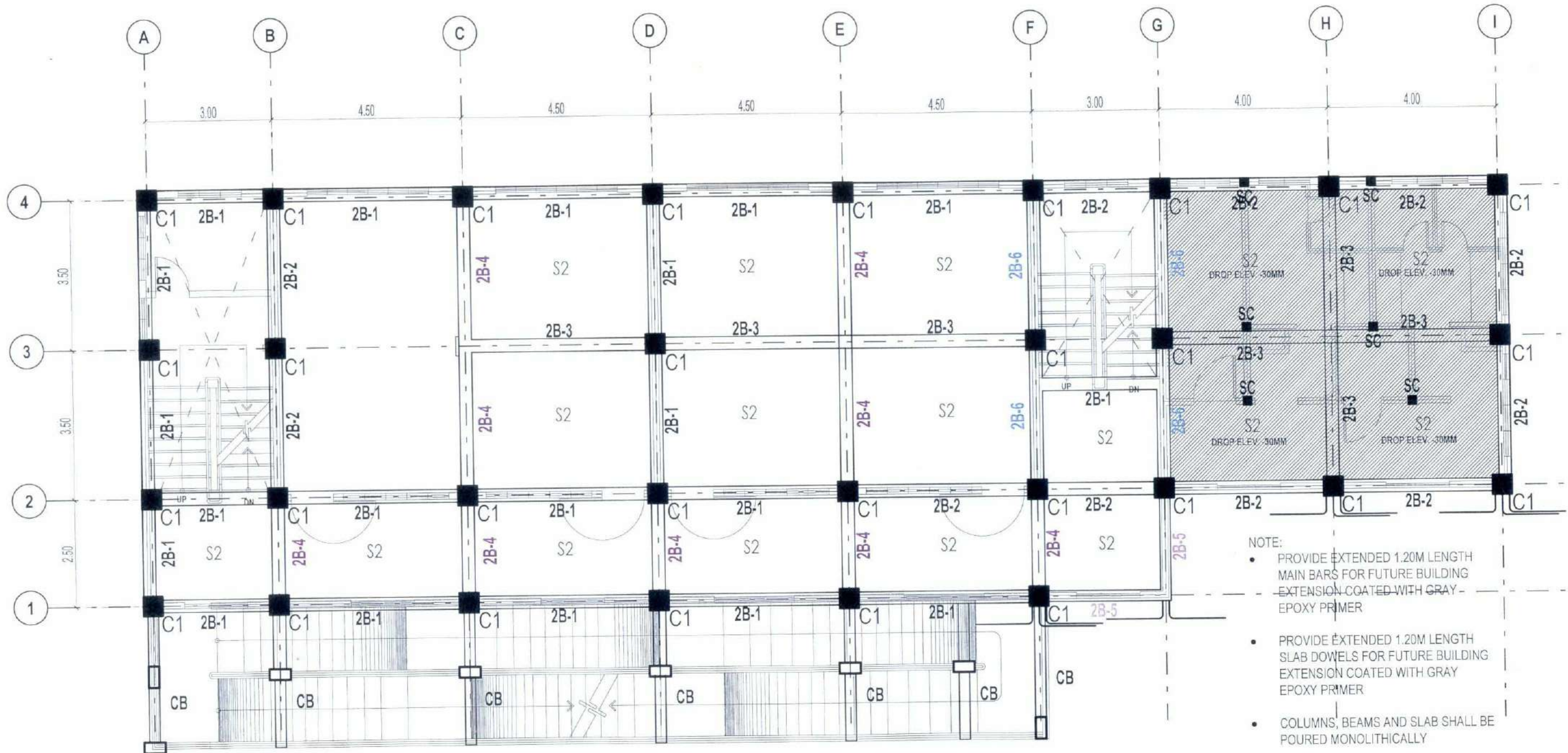
REQUESTING OFFICE:
DR. MARIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

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SECOND FLOOR FRAMING PLAN

SCALE : 1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 3300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. OLYSSES B. CALUYA
ENGR. ALEXANDER WHON S. TABAQUERO
CIVIL ENGINEER, OPM/PMU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OPM/PMU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OPM/PMU

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

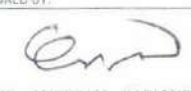
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S-10
PAGE NO.:
62/119

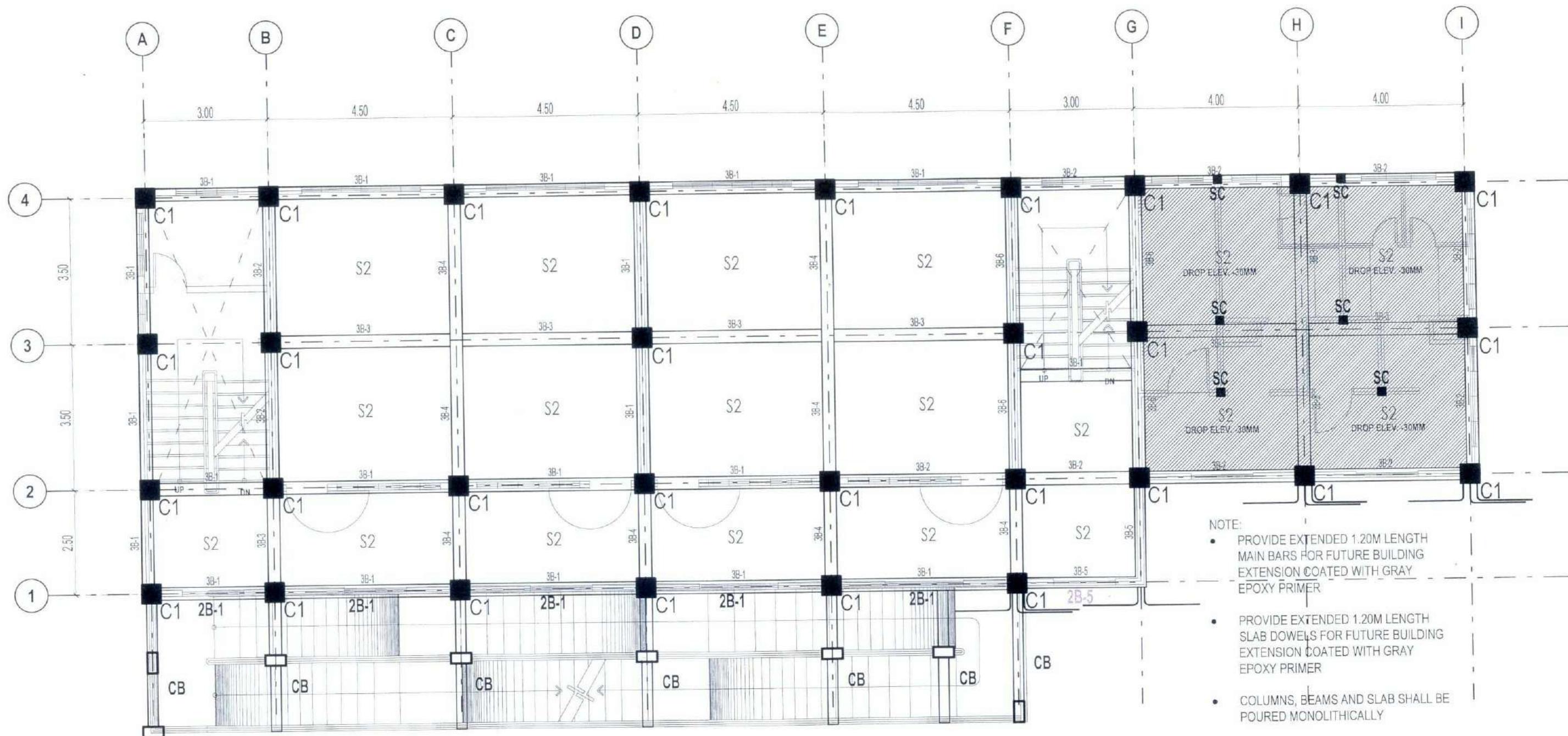
SCHEDULE OF SECOND FLOOR BEAMS

MARK		LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
2B-1								10mm	2	50	
	3-25mm top		3-25mm		3-25mm		3-25mm		10	100	
									REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
2B-2								10mm	2	50	
	3-25mm top		3-25mm		3-25mm		3-25mm		10	100	
	2-16mm mid		2-16mm		2-16mm		2-16mm		REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
2B-3								10mm	2	50	
	3-20mm top		6-20mm		3-20mm		6-20mm		10	100	
									REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
2B-4											
	3-25mm top		6-25mm		3-25mm		6-25mm		10	100	
									REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
2B-5								10mm	2	50	
	2-20mm top		2-20mm		2-20mm		2-20mm		10	100	
	2-16mm mid		2-16mm		2-16mm		2-16mm		REST	150	
	2-20mm bot.		2-20mm		2-20mm		2-20mm		SPLICE	100	
		250x500		250x500		250x500					
2B-6								10mm	2	50	
	3-25mm top		5-25mm		3-25mm		5-25mm		10	100	
	4-16mm mid		4-16mm		4-16mm		4-16mm		REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					



TARLAC STATE UNIVERSITY
Facilities Development and
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Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: AR. JHON CARLO V. MIMANAY DRAFTSMAN, 304M-PDU	CHECKED BY:  AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY:  AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:  DR. MIRIAM S. SALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED:  DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: S-11
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	ENGR. ALEXANDER JHON S. TABAQUERO CHIEF ENGINEER, OFDM-MU						DATE: 2025	PAGE NO.: 63/119



THIRD FLOOR FRAMING PLAN

SCALE : 1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)

PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
MR. JHON CARLO V. MANABLAY
DRAFTSMAN, OFDM-POU
ENGR. ALEXANDER JHON S. TABAQUERO
CIVIL ENGINEER, OFDM-POU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

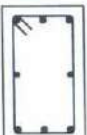
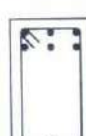
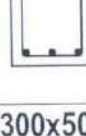
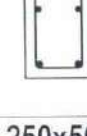
RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

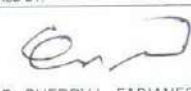
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SCHEDULE OF THIRD FLOOR BEAMS

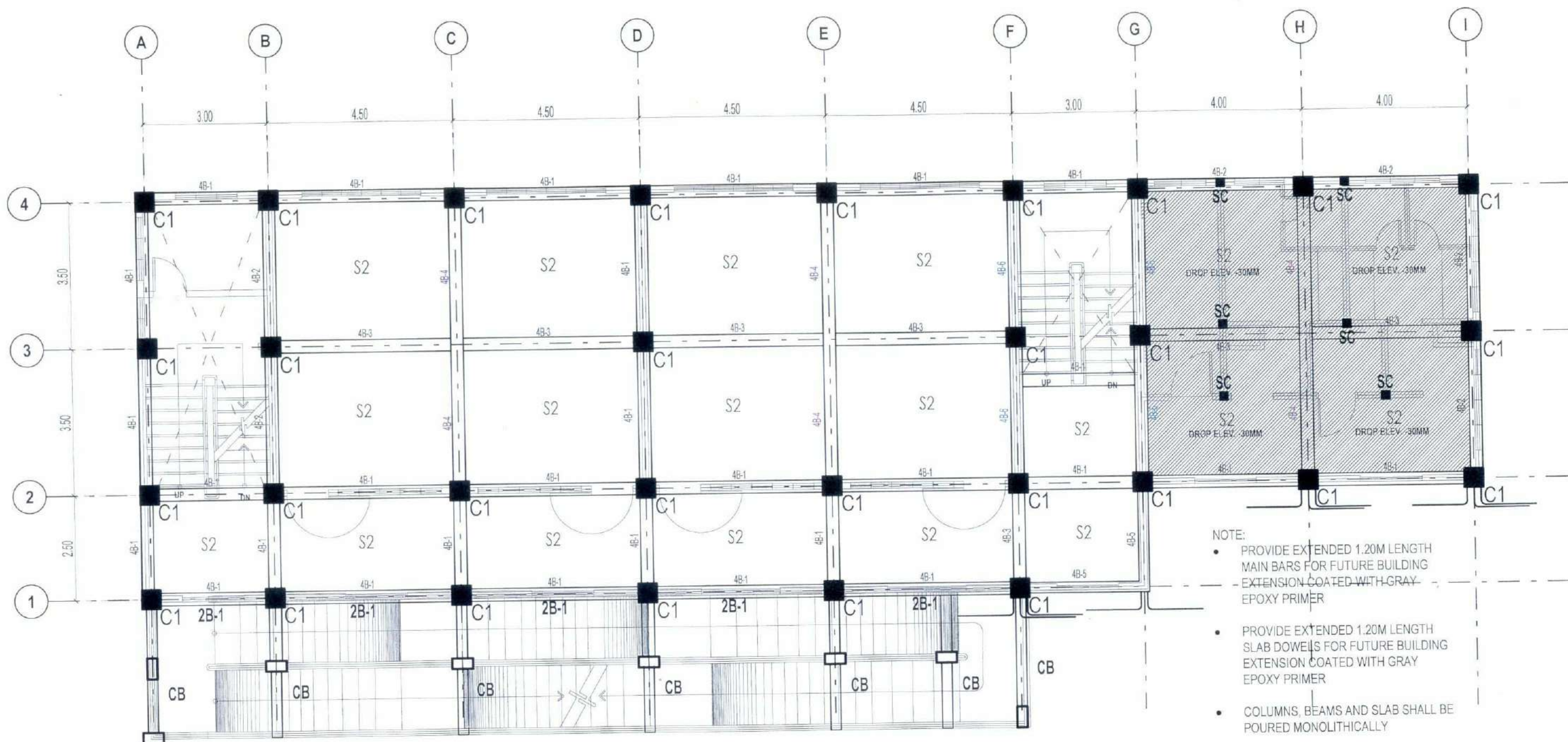
MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
3B-1								10mm	2	50	
	3-25mm top		3-25mm		3-25mm		3-25mm		10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
3B-2								10mm	2	50	
	3-25mm top		3-25mm		3-25mm		3-25mm		10	100	
	2-16mm mid		2-16mm		2-16mm		2-16mm		REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
3B-3								10mm	2	50	
	3-20mm top		6-20mm		3-20mm		6-20mm		10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
3B-4								10mm	2	50	
	3-25mm top		6-25mm		3-25mm		6-25mm		10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
3B-5								10mm	2	50	
	2-20mm top		2-20mm		2-20mm		2-20mm		10	100	
	2-16mm mid		2-16mm		2-16mm		2-16mm		REST	150	
	2-20mm bot.		2-20mm		2-20mm		2-20mm		SPLICE	100	
		250x500		250x500		250x500					
3B-6											
	3-25mm top		5-25mm		3-25mm		5-25mm		10	100	
	4-16mm mid		4-16mm		4-16mm		4-16mm		REST	165	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: AR. JHON CARLO V. MAMAGAY DRAFTSMAN, OFDM	CHECKED BY:  AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY:  AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:  DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL:  ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED:  DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: S-13 PAGE NO.: 65/119
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	ENGR. ALEXANDER JHON S. TABAQUERO CIVIL ENGINEER (OFDM)						DATE: 2025	

NOTE:
COLUMNS, BEAMS AND SLAB SHALL BE POURED MONOLITHICALLY.



FOURTH FLOOR FRAMING PLAN

SCALE : 1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. JHON CARLO V. MAMACDAY
ENGR. ALEXANDER JHON S. TABAQUERO
CIVIL ENGINEER, OFDM

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM PDU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

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DATE: 2025

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SCHEDULE OF FOURTH FLOOR BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
4B-1								10mm	2	50	
	3-20mm top		3-20mm		3-20mm		3-20mm		10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
4B-2								10mm	2	50	
	3-20mm top		3-20mm		3-20mm		3-20mm		10	100	
	2-16mm mid		2-16mm		2-16mm		2-16mm		REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
4B-3								10mm	2	50	
	3-20mm top		6-20mm		3-20mm		6-20mm		10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
4B-4								10mm	2	50	
	3-20mm top		5-20mm		3-20mm		5-20mm		10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
4B-5								10mm	2	50	
	2-20mm top		2-20mm		2-20mm		2-20mm		10	100	
	2-16mm mid		2-16mm		2-16mm				REST	150	
	2-20mm bot.		2-20mm		2-20mm		2-20mm		SPLICE	100	
		250x500		250x500		250x500					
4B-6								10mm	2	50	
	3-25mm top		3-25mm		3-25mm		3-25mm		10	100	
	4-16mm mid		4-16mm		4-16mm		4-16mm		REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					



TARLAC STATE UNIVERSITY
Facilities Development and
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Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
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CHIEF ENGINEER, OFDM-POU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:
AR. ARLEN M. GUIB
DIRECTOR, OFDM

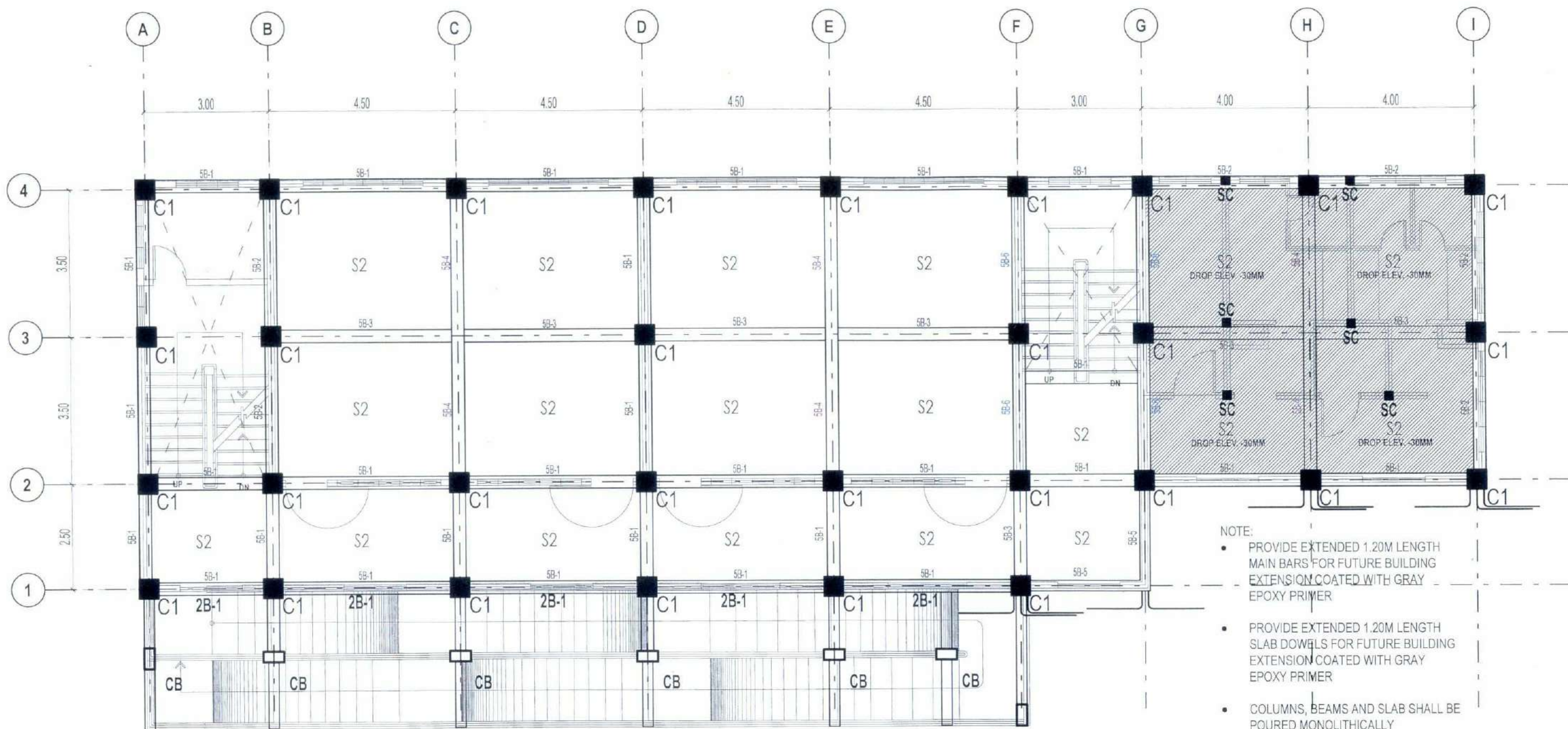
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

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FIFTH FLOOR FRAMING PLAN

SCALE : 1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
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SHEET CONTENTS:
AS SHOWN
DATE: 2025

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68/119

SCHEDULE OF FIFTH FLOOR BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
5B-1	3-20mm top		3-20mm		3-20mm		3-20mm	10mm	2	50	
									10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
5B-2	3-20mm top		3-20mm		3-20mm		3-20mm	10mm	2	50	
	2-16mm mid		2-16mm		2-16mm		2-16mm		10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
5B-3	3-20mm top		6-20mm		3-20mm		6-20mm	10mm	2	50	
									10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
5B-4	3-20mm top		5-20mm		3-20mm		5-20mm	10mm	2	50	
									10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					
5B-5	2-20mm top		2-20mm		2-20mm		2-20mm	10mm	2	50	
	2-16mm mid		2-16mm		2-16mm		2-16mm		10	100	
									REST	150	
	2-20mm bot.		2-20mm		2-20mm		2-20mm		SPLICE	100	
		250x500		250x500		250x500					
5B-6	3-25mm top		3-25mm		3-25mm		3-25mm	10mm	2	50	
	4-16mm mid		4-16mm		4-16mm		4-16mm		10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	100	
		300x500		300x500		300x500					



TARLAC STATE UNIVERSITY
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CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)

PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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HEAD, OFDM-PDU

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DIRECTOR, OFDM

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

DR. MIRIAM S. GALVEZ
DEAN, COE

REQUESTING OFFICE:
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DEAN, COE

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

RECOMMENDING APPROVAL:
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PRESIDENT

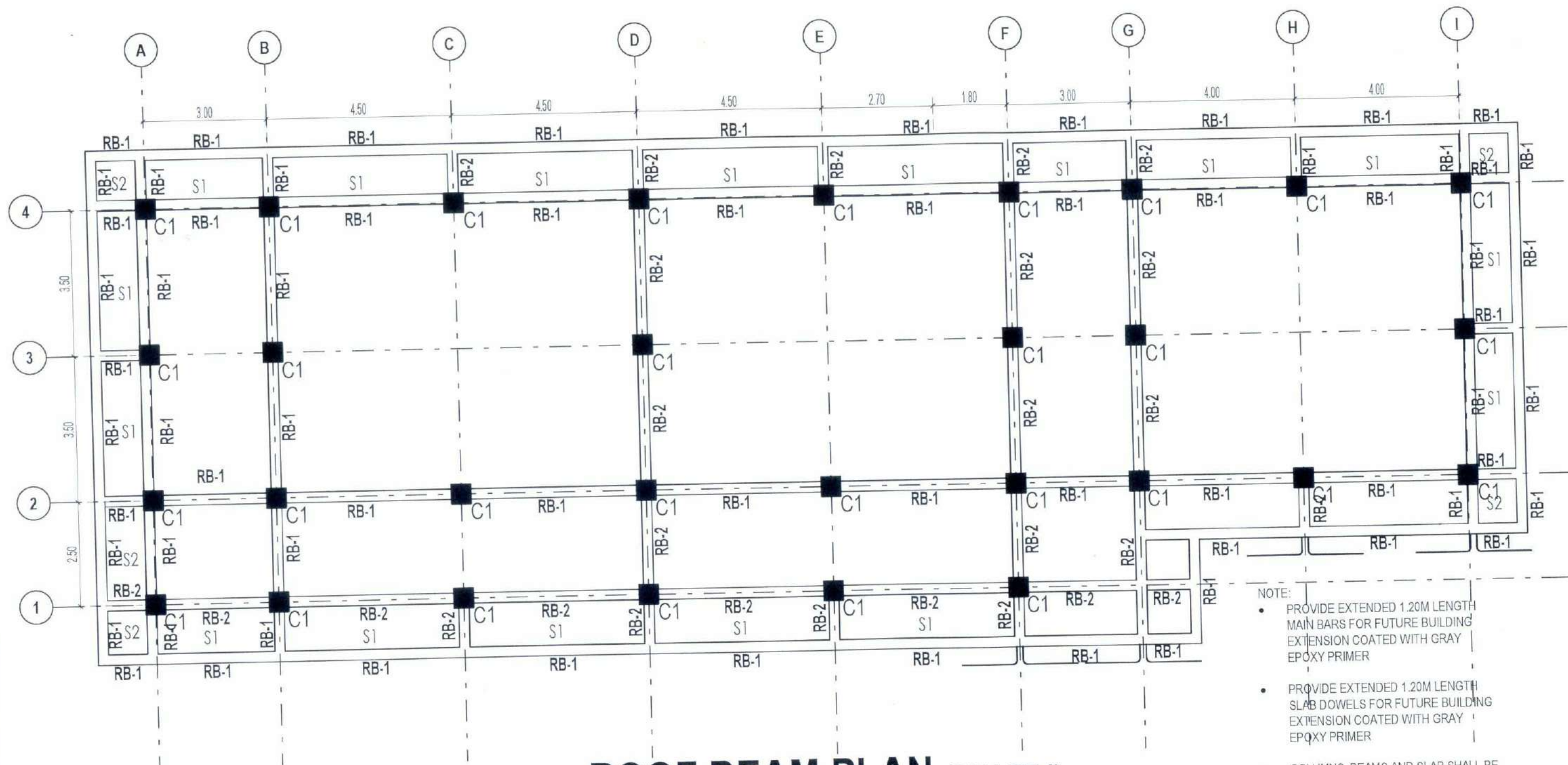
DR. ARNOLD E. VELASCO
PRESIDENT

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ROOF BEAM PLAN (PHASE I)

SCALE : 1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2100

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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HEAD, OFDM-PDU

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SCHEDULE OF ROOF BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
RB-1			2-16mm top		2-16mm		2-16mm	10mm	2	50	
	2-16mm mid		2-16mm		2-16mm		2-16mm		10	100	
	2-16mm bot.		2-16mm		2-16mm		2-16mm		REST	125	
									SPLICE	100	
		250x400		250x400		250x400					
RB-2			3-16mm top		3-16mm		3-16mm	10mm	2	50	
	2-16mm mid		2-16mm		2-16mm		2-16mm		10	100	
	2-16mm bot.		2-16mm		2-16mm		2-16mm		REST	125	
									SPLICE	100	
		250x400		250x400		250x400					

SCHEDULE OF RAMP CANTILEVER BEAM

MARK		LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
CB-1			3-25mm top		4-20mm		4-20mm	10mm	2	50	
			2-12mm		2-12mm		2-12mm		10	100	
	3-20mm bot.		4-20mm		4-20mm		4-20mm		REST	165	
									SPLICE	100	
		250x450		250x450		250x450					



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CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
PROJECT OFDM-POU
ENGR. ALEXANDER JHON S. TABAQUERO
CHIEF ENGINEER, OFDM-MU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

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AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. GALVEZ
DEAN, COE

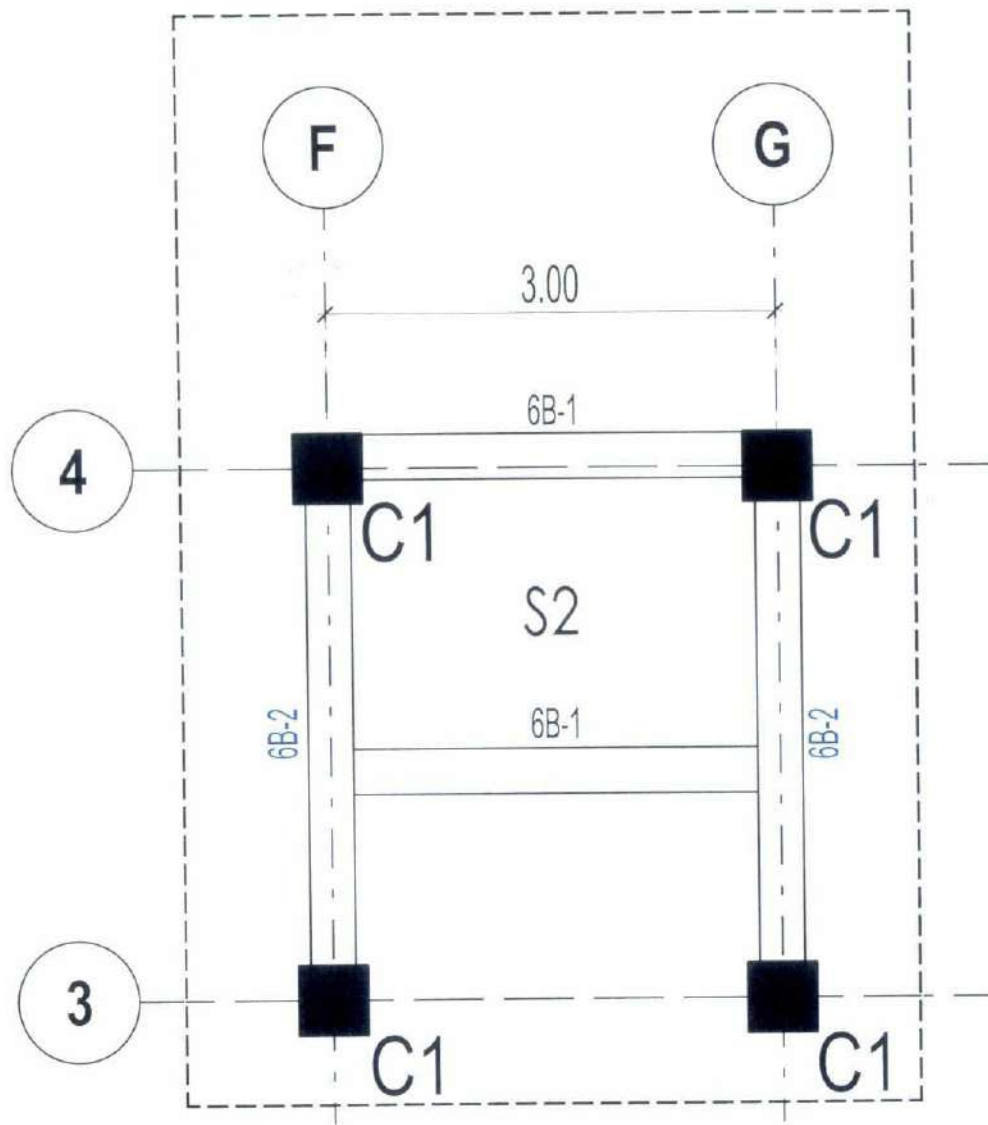
RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

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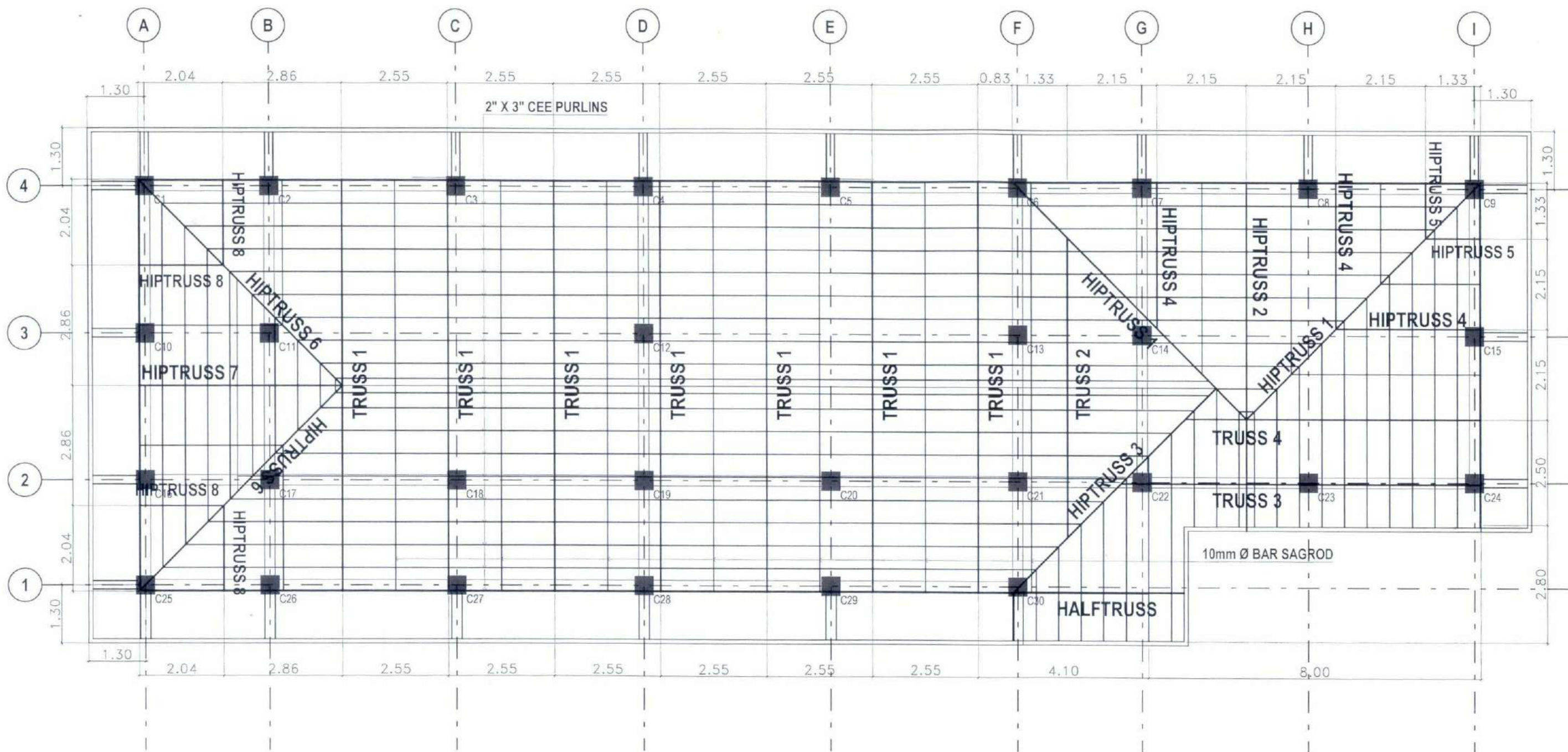
SCHEDULE OF MEZZANINE FLOOR BEAMS

MARK	CONT'. BARS	LEFT		MID SPAN		RIGHT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
6B-1								10mm	2	50	
	3-20mm top		3-20mm		3-20mm		3-20mm		10	100	
									REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	-	
		300x500		300x500		300x500					
6B-2								10mm	2	50	
	3-25mm top		3-25mm		3-25mm		3-25mm		10	100	
	4-16mm mid		4-16mm		4-16mm		4-16mm		REST	150	
	3-20mm bot.		3-20mm		3-20mm		3-20mm		SPLICE	-	
		300x500		300x500		300x500					

MEZZANINE/ROOF DECK BEAM PLAN

SCALE

1:50M



ROOF FRAMING PLAN

SCALE

1:100M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 3300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. ULYSSES B. CALUYA
ARCHITECT, OFDM-POL
ENGR. ALEXANDER JHON S. TABAQUERO
DEAN, OFDM-POL

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HEAD, OFDM-POL

CERTIFIED BY:
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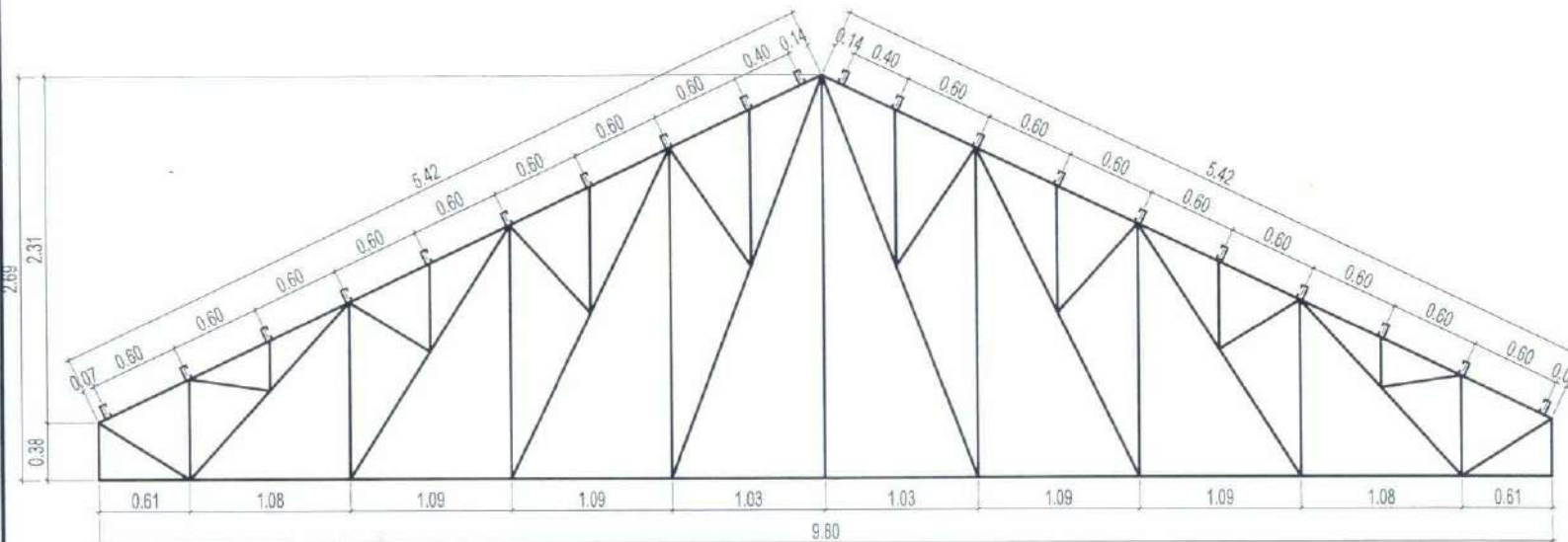
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

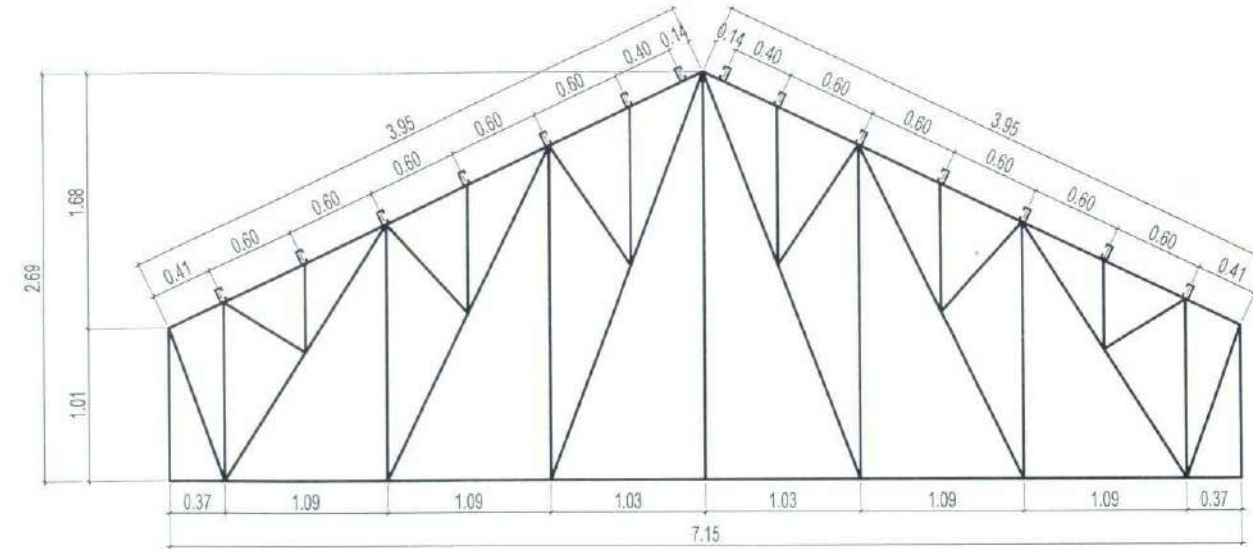
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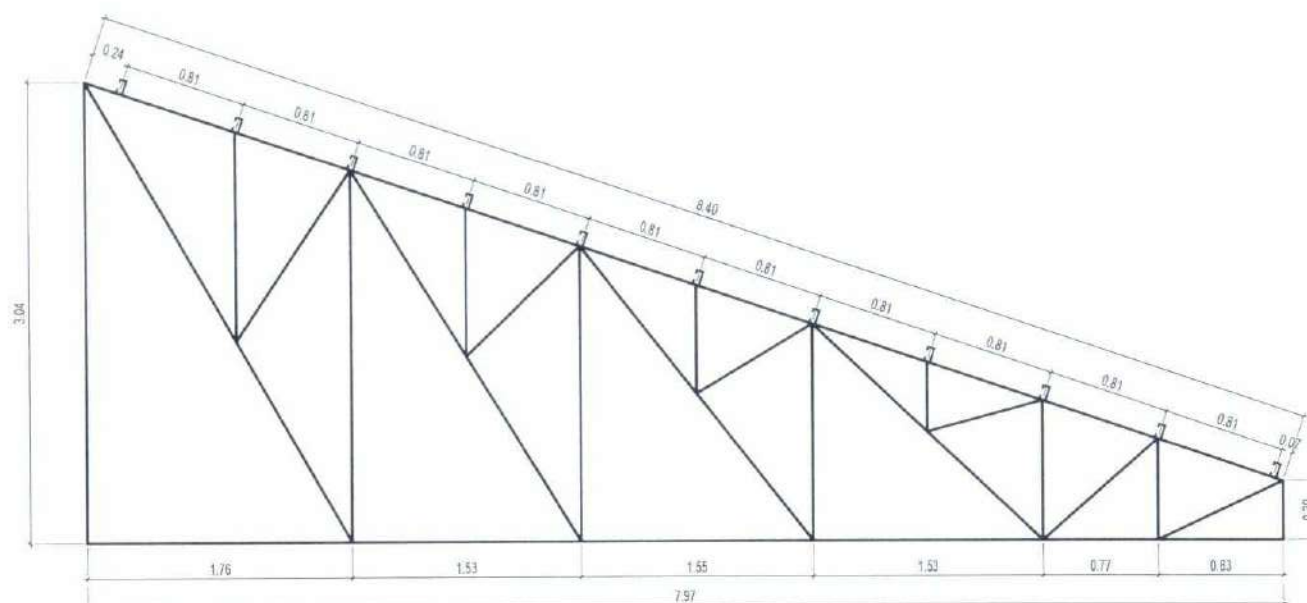
TC/BC 2 - $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ (STD)
WM 2 - $1 \times 1 \times \frac{3}{16}$ (STD)

TRUSS 1 DETAIL



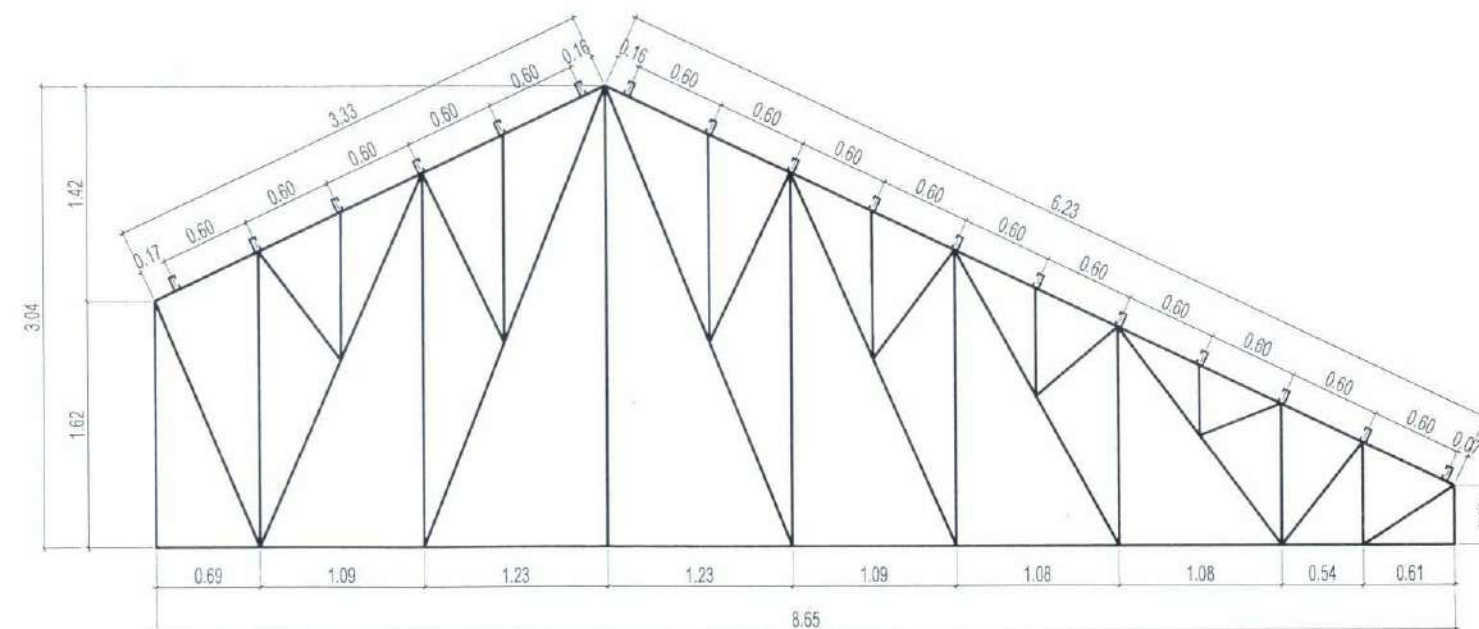
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WM 2 - $1 \times 1 \times \frac{3}{16}$ (STD)

TRUSS 2 DETAIL



TC/BC 2 - $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ (STD)
WM 2 - $1 \times 1 \times \frac{3}{16}$ (STD)

HIPTRUSS 1



TC/BC 2 - $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ (STD)
WM 2 - $1 \times 1 \times \frac{3}{16}$ (STD)

TRUSS 3 DETAIL

TRUSS DIAGRAM

SCALE

1:50M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Rizalino Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
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PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
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ENGINEER, OFDM-MU

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HEAD, OFDM-PU

CERTIFIED BY:
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DIRECTOR, OFDM

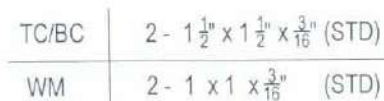
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

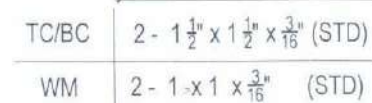
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

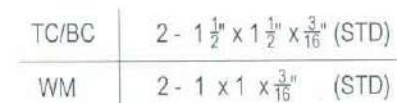
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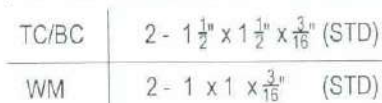
TRUSS 4 DETAIL



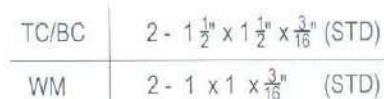
HALFTRUSS DETAIL



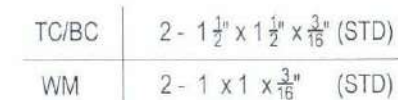
HIPTRUSS 4



HIPTRUSS 2



HIPTRUSS 3

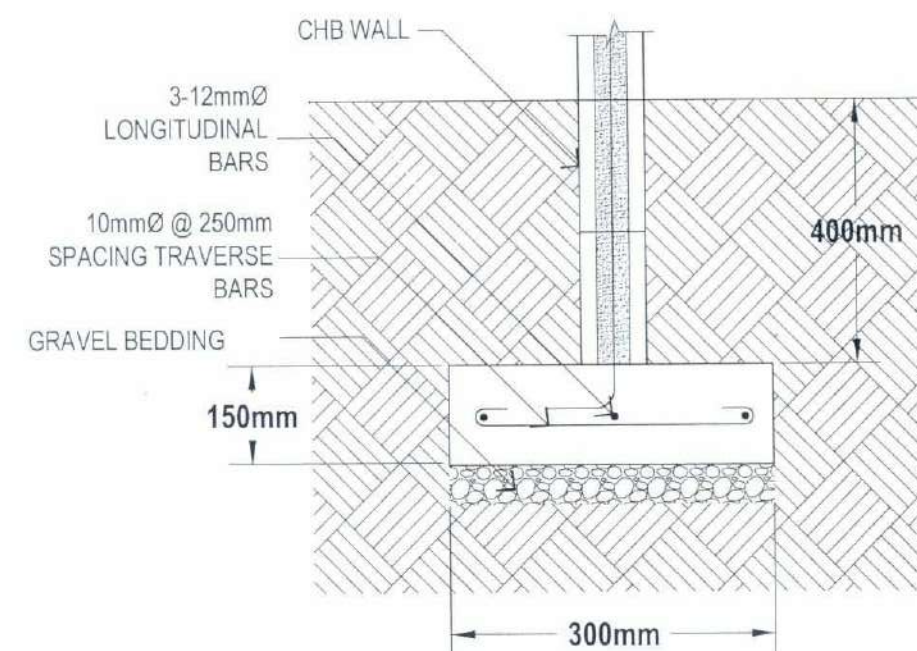
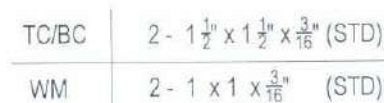
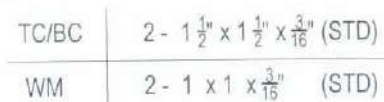


HIPTRUSS 5

1:50M

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Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

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TRUSS DIAGRAM

SCALE

1:50M



TARLAC STATE UNIVERSITY
Facilities Development and
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Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:	SAN SIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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CIVIL ENGINEER (OFM/CMU)

CHECKED BY: 
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HEAD, OEDM-PDU

CERTIFIED BY:

Arle
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE: 
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:

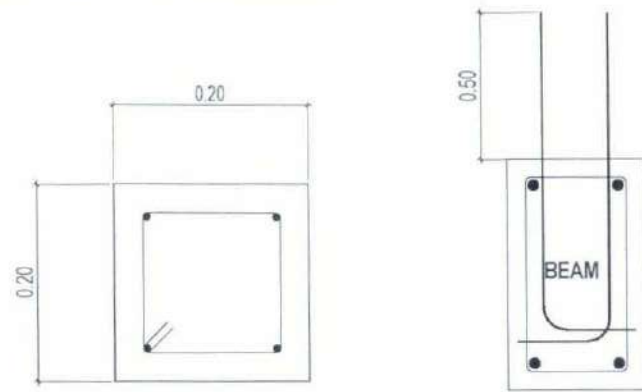
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

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DR. ARNOLD E. VELASCO
PRESIDENT

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DATE: 2025	

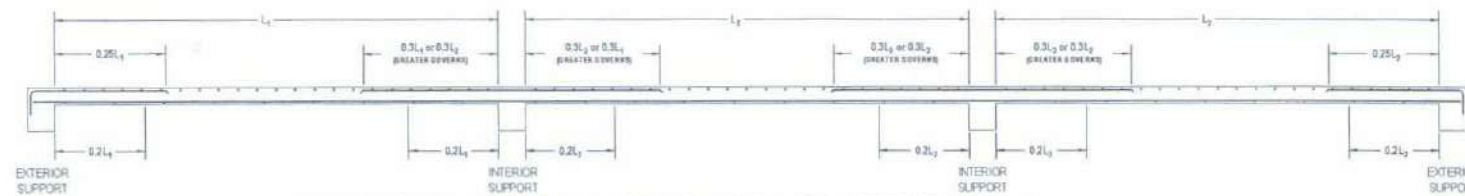
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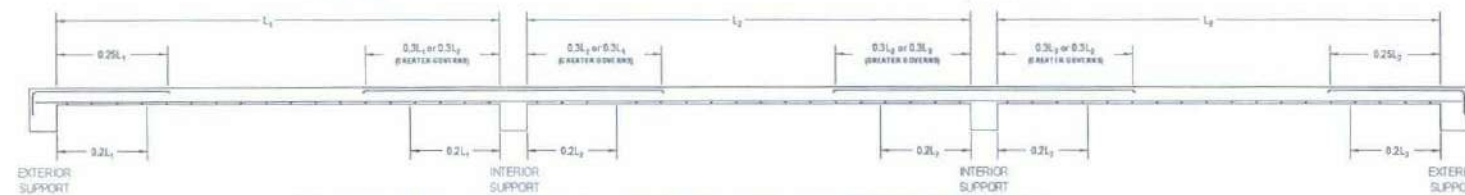
FOUR - LONGITUDINAL BAR
STIFFENER COLUMN

STIFFENER COLUMN DOWEL CONNECTION
DETAIL

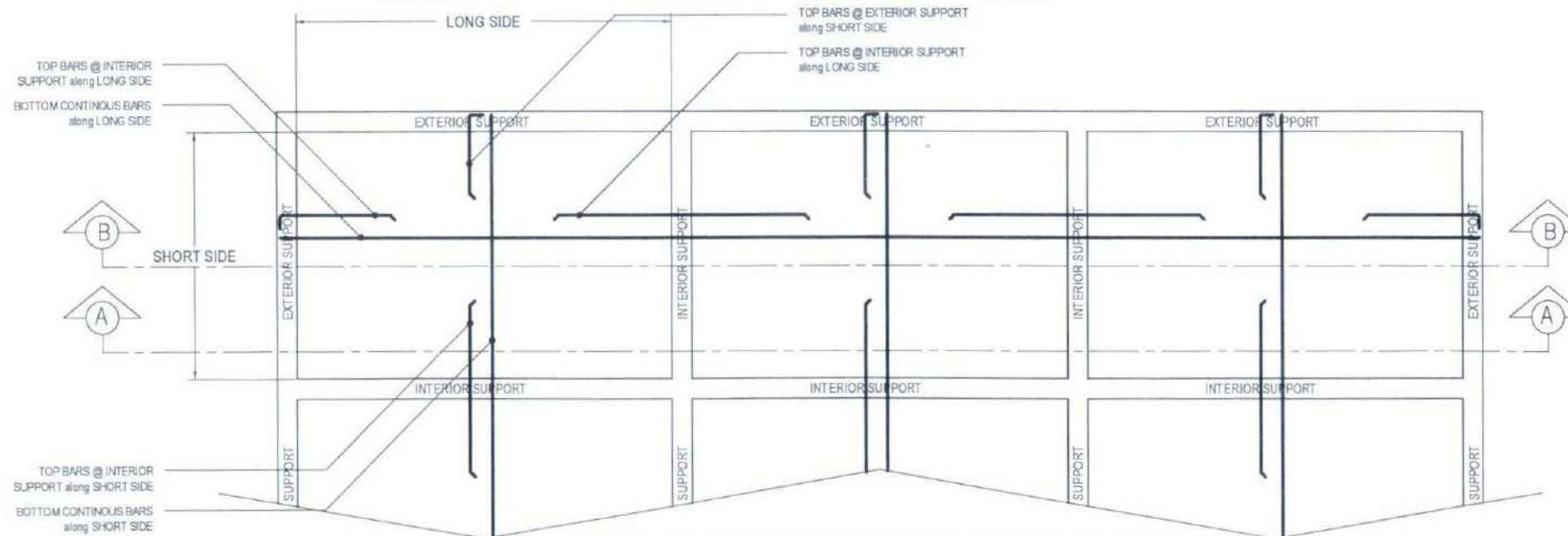
TYPICAL DETAIL OF STIFFENER COLUMN
SCALE N.T.S.



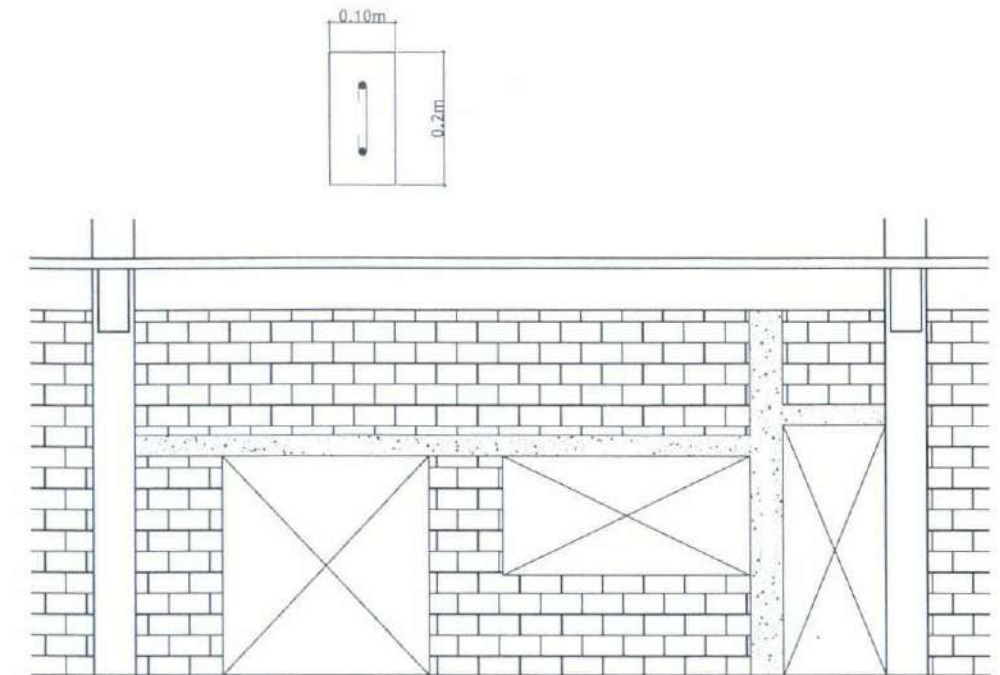
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SCALE N.T.S.



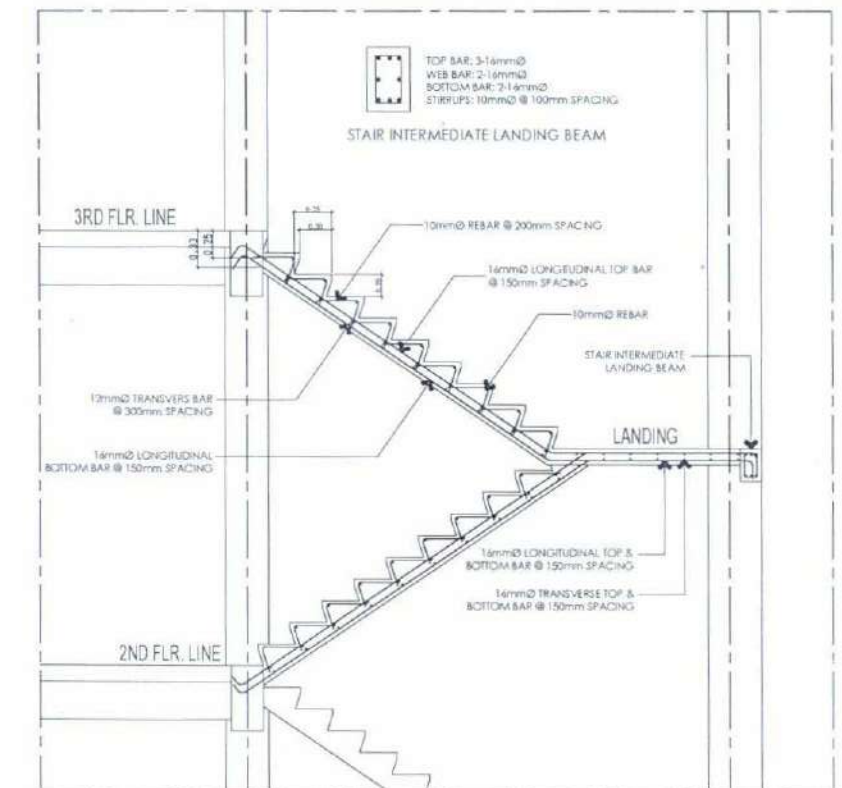
TYPICAL DETAIL OF SLAB: SECTION B-B
SCALE N.T.S.



TYPICAL SLAB REINFORCEMENT LAYOUT
SCALE N.T.S.



TYPICAL DETAIL OF LINTEL BEAM
SCALE N.T.S.



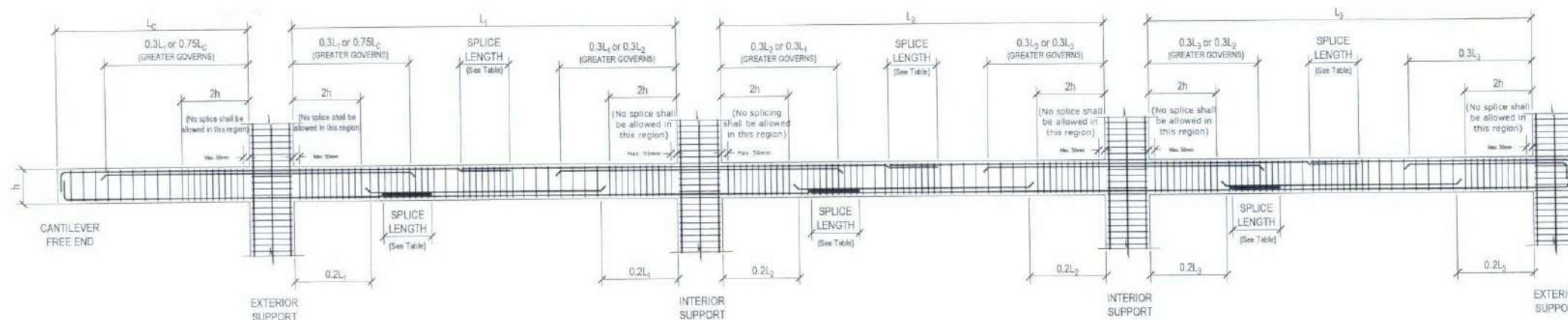
TYPICAL DETAIL OF STAIR

SCHEDULE OF SUSPENDED SLAB

MARK	THICKNESS	REINFORCEMENT	EXTERIOR SUPPORT		MIDPANEL		INTERIOR SUPPORT	
			TOP BAR	BOTTOM BAR	TOP BAR	BOTTOM BAR	TOP BAR	BOTTOM BAR
S1	150mm	ALONG LONG SIDE	10mm @ 200mm	10mm @ 150mm	10mm @ 200mm	10mm @ 150mm	10mm @ 200mm	10mm @ 150mm
		ALONG SHORT SIDE	10mm @ 200mm	10mm @ 150mm	10mm @ 200mm	10mm @ 150mm	10mm @ 200mm	10mm @ 150mm
S2	150mm	ALONG LONG SIDE	10mm @ 200mm	10mm @ 150mm	N/A	10mm @ 150mm	10mm @ 200mm	10mm @ 150mm
		ALONG SHORT SIDE	10mm @ 200mm	10mm @ 150mm	N/A	10mm @ 150mm	10mm @ 200mm	10mm @ 150mm

NOTE:

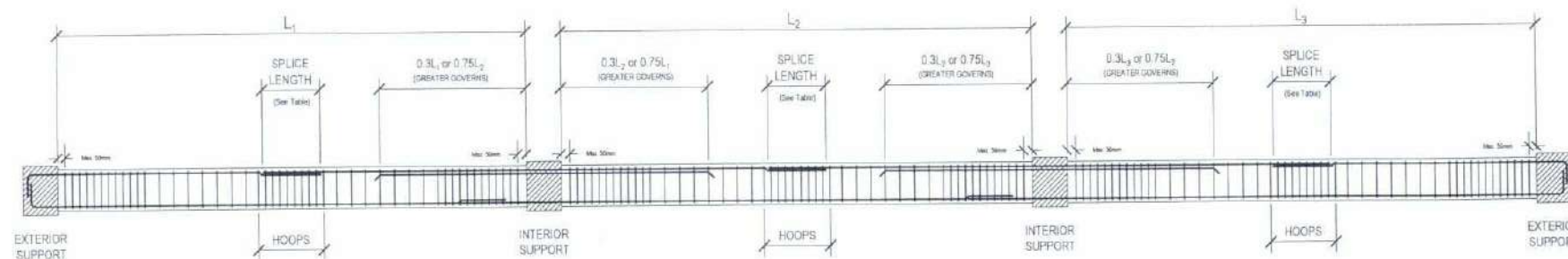
- 100MM SPACING OF SPLICE HOOPS (LATERAL TIES) @ SPLICE LENGTH
- 75MM SPACING OF PERIMETER TIE (JOINT HOOP)



TYPICAL DETAIL OF BEAMS

SCALE

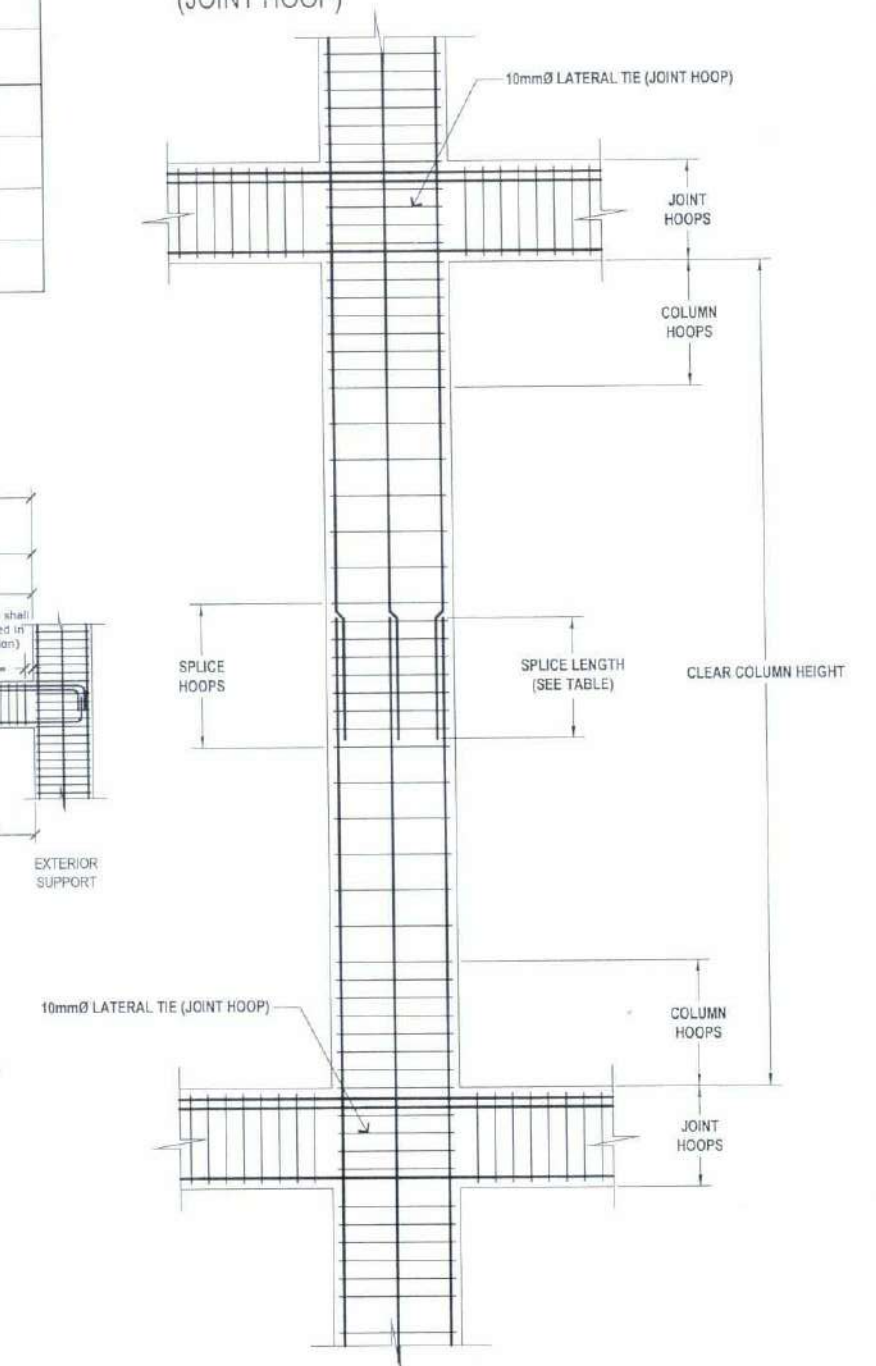
N.T.S.



TYPICAL DETAIL OF INTERMEDIATE BEAM

SCALE

N. T. S.



TYPICAL DETAIL OF COLUMN

SCALE

N.T.S.



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. LEYSSIE B. CALIYA
ARCHT. ST. BUDM-PDO
ENGR. ALEXANDER JHON S. TABAQUERO

CHECKED BY: 
AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

Ar

AR. ARLEN M. GUIB

DIRECTOR, OFDM

REQUESTING OFFICE:	
DR. MIRIAM S. GALVEZ	
DEAN, COE	

RECOMMENDING APPROVAL

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

A. DR. ARNOLD E. VELASCO
PRESIDENT

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AS SHOWN
DATE: 2025

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TENSION LAP SPlice LENGTHS

BAR SIZE	$f_c' = 3,000$ PSI				$f_c' = 4,000$ PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
10mm	490	740	380	570	430	640	330	490
12mm	590	880	460	680	510	770	400	590
16mm	790	1,200	610	910	680	1,100	530	790
20mm	1,000	1,500	780	1,200	850	1,300	660	980
25mm	1,600	2,400	1,200	1,800	1,400	2,100	1,100	1,600
28mm	1,700	2,700	1,300	2,100	1,500	2,300	1,200	1,800
32mm	1,900	3,000	1,500	2,300	1,700	2,600	1,300	2,000
36mm	2,200	3,400	1,700	2,600	1,900	3,000	1,500	2,300

NOTES:

- TABULATED VALUES ARE CLASS B TENSION LAP SPlice LENGTHS BASED ON UNCOATED GRADE 40 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE.
- TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPlice LENGTHS ARE BASED ON ACI 318-14, SECTIONS 25.4.2.2 AND 25.5.2.1, RESPECTIVELY. TABULATED VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRAVERSE REINFORCEMENT AND CONCRETE COVER MEETING THE MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN MILLIMETERS.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
- OTHER BARS ARE THE HORIZONTAL BARS LOCATED WITHIN 12 INCHES DEPTH FROM THE BOTTOM OF SLABS OR FOOTINGS, OR THE VERTICAL BARS OF COLUMN OR WALLS.
- WHEN CLASS A LAP SPlices ARE TO BE USED, DIVIDE THE TABULATED VALUES BY 1.3.
- CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER TO CENTER SPACING OF BARS, ARE DEFINED AS:

FOR BEAMS OR COLUMNS:

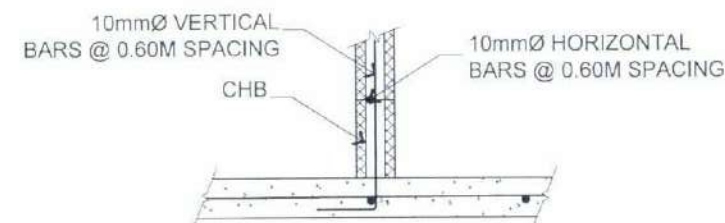
CASE 1 - COVER AT LEAST $1.0d_b$ AND CENTER TO CENTER SPACING AT LEAST $2d_b$
CASE 2 - COVER LESS THAN $1.0d_b$ OR CENTER TO CENTER SPACING LESS THAN $2d_b$

FOR FOOTINGS OR WALLS:

CASE 1 - COVER AT LEAST $1.0d_b$ AND CENTER TO CENTER SPACING AT LEAST $3d_b$
CASE 2 - COVER LESS THAN $1.0d_b$ OR CENTER TO CENTER SPACING LESS THAN $3d_b$

FOR SLABS (USE CLASS A LAP SPlices):

CASE 1 - COVER AT LEAST $1.0d_b$ AND CENTER TO CENTER SPACING AT LEAST $3d_b$
CASE 2 - COVER LESS THAN $1.0d_b$ OR CENTER TO CENTER SPACING LESS THAN $3d_b$



TYPICAL DETAIL OF WALL TO SLAB CONNECTION

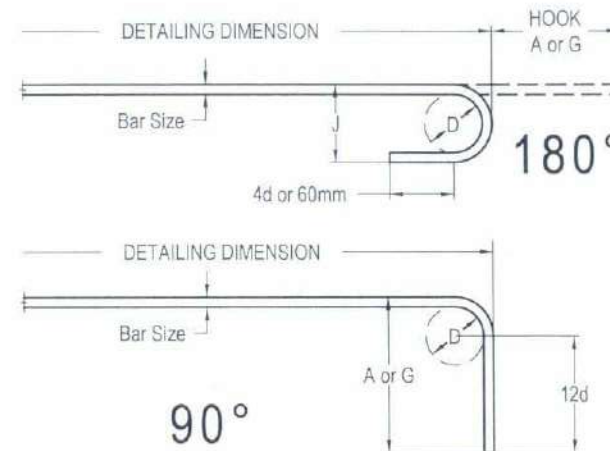
SCALE N.T.S.

RECOMMENDED END HOOKS

ALL GRADES: D = FINISHED BEND DIAMETER

BAR SIZE	D* (mm)	180° HOOK		90° HOOK
		A or G (mm)	J (mm)	A or G (mm)
10mm	60	150	80	150
12mm	80	175	105	200
16mm	100	200	130	250
20mm	135	250	180	375
25mm	155	275	205	425
28mm	240	375	300	475
32mm	275	425	335	550
36mm	305	475	375	625

*FINISHED BEND DIAMETERS INCLUDE "SPRING BACK" EFFECT WHEN BARS STRAIGHTEN OUT SLIGHTLY AFTER BEING BENT AND ARE SLIGHTLY LARGER THAN MINIMUM BEND DIAMETER IN ACI.



DEVELOPMENT LENGTH FOR STANDARD HOOKS IN TENSION

BAR SIZE	$f_c' = 2,500$ PSI	$f_c' = 3,000$ PSI	$f_c' = 4,000$ PSI
10mm	160	150	150
12mm	200	180	160
16mm	260	250	210
20mm	320	300	260
25mm	400	380	320
28mm	450	430	369
32mm	520	480	410
36mm	580	530	460

NOTES:

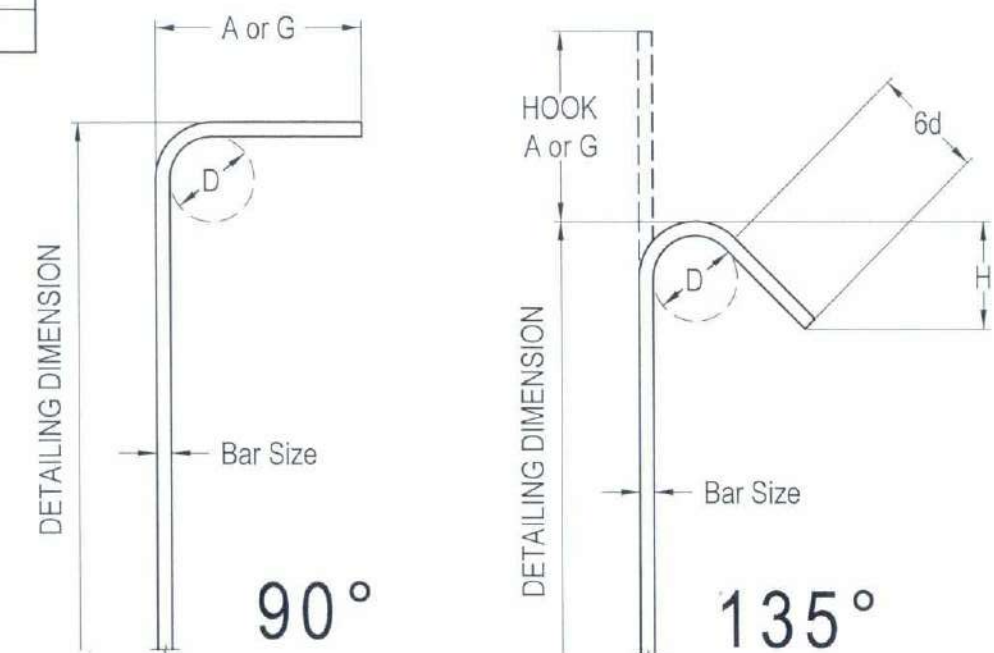
- TABULATED VALUES ARE BASED ON UNCOATED GRADE 40 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE.
- DEVELOPMENT LENGTHS FOR STANDARD HOOKS IN TENSION ARE BASED ON ACI 318-14, SECTIONS 25.4.3. LENGTHS ARE IN MILLIMETERS.

STANDARD STIRRUP/TIE HOOKS

ALL GRADES: D = FINISHED BEND DIAMETER

BAR SIZE	D (mm)	135° HOOK		90° HOOK
		A or G (mm)	H* (mm)	A or G (mm)
10mm	40	105	65	105
12mm	50	115	80	115
16mm	65	140	95	155
20mm	120	230	135	355
25mm	155	270	155	410

*H DIMENSION IS APPROXIMATE



SEISMIC STIRRUP/TIE HOOKS

ALL GRADES: D = FINISHED BEND DIAMETER

BAR SIZE	D (mm)	135° SEISMIC HOOK	
		A or G (mm)	H* (mm)
10mm	40	110	80
12mm	50	115	80
16mm	65	140	95
20mm	120	230	135
25mm	155	270	155

*H DIMENSION IS APPROXIMATE



TARLAC STATE UNIVERSITY
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SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. ALEXANDER JHON S. TABAQUERO
ENGR. CIVIL ENGINEER, OFDM-PSU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-PSU

CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

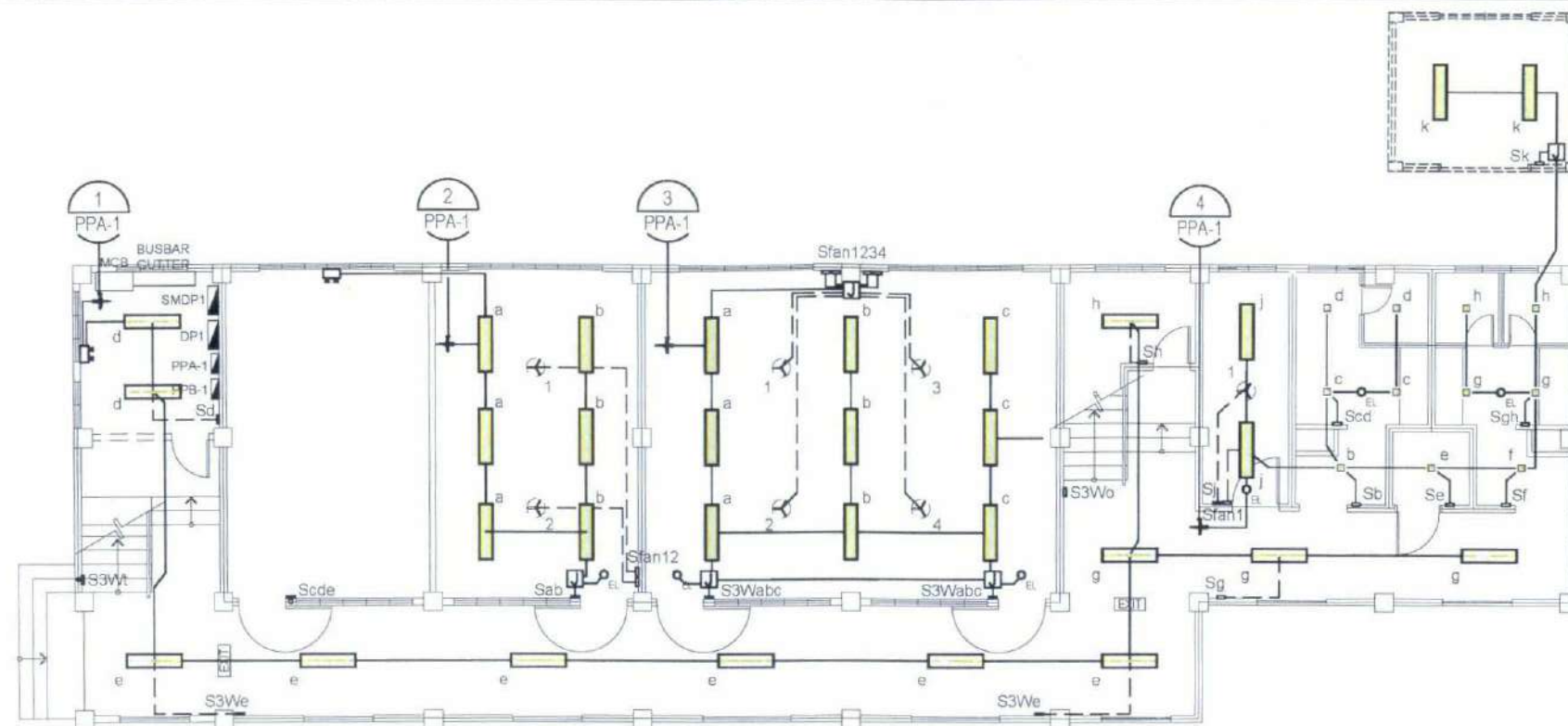
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DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

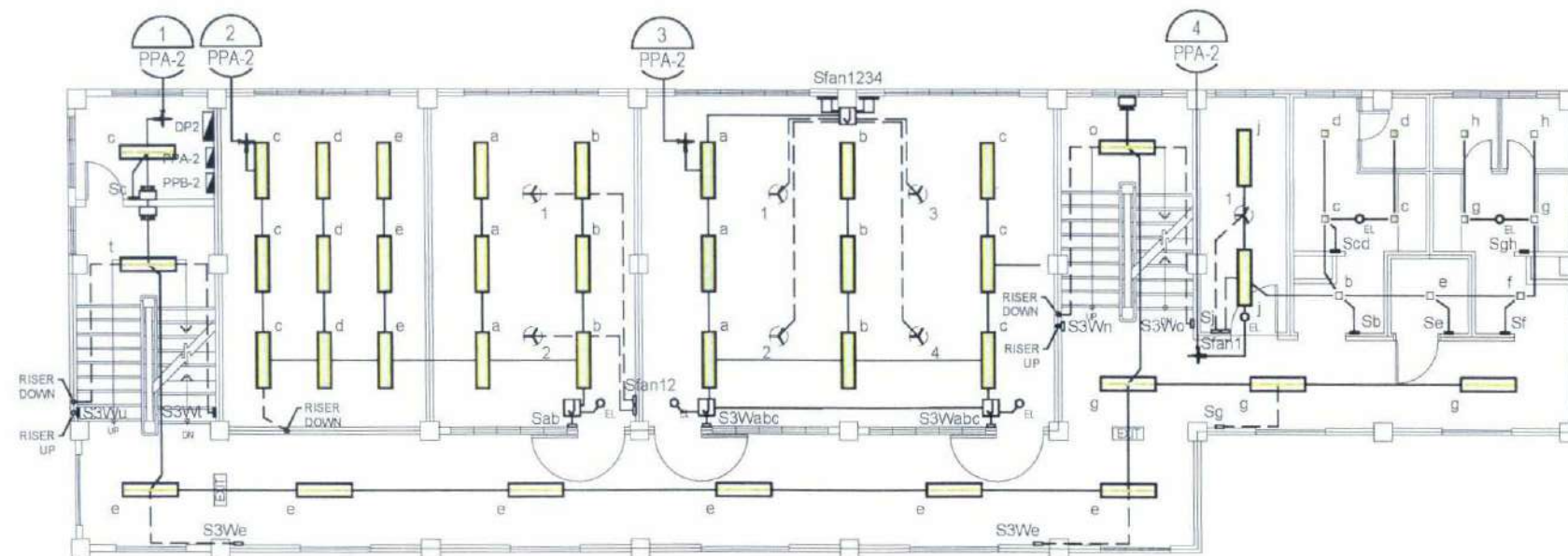
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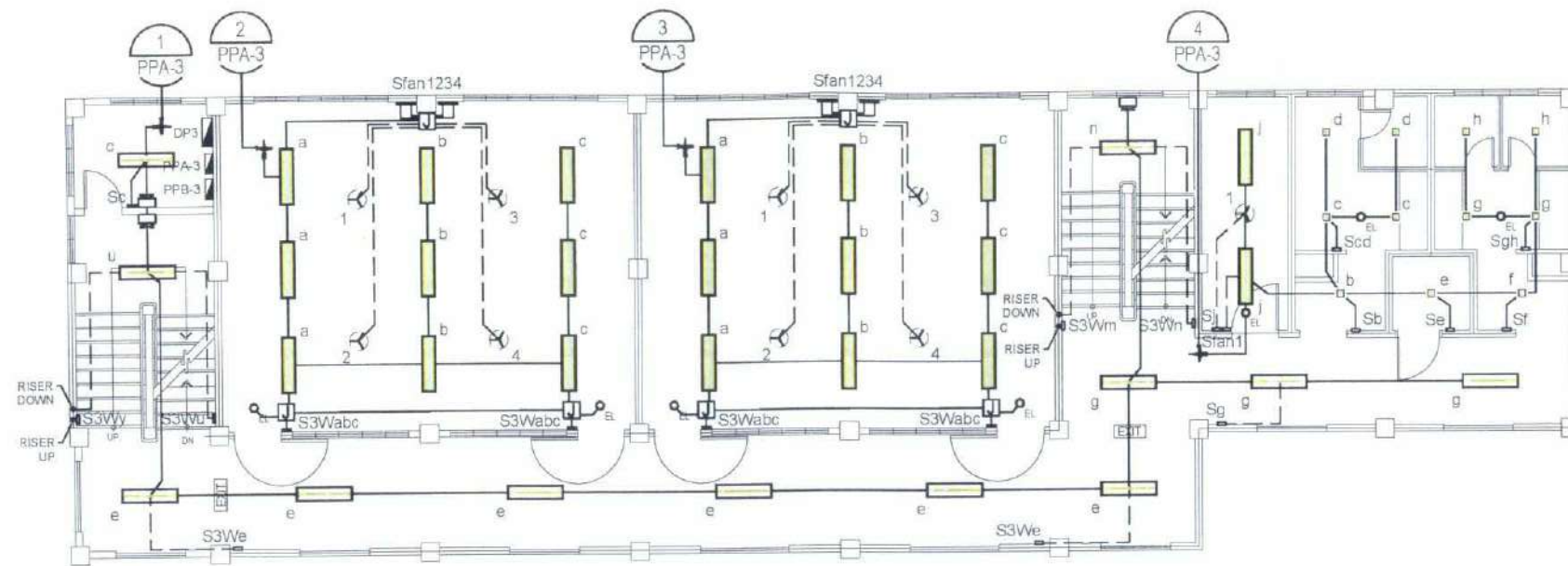
LEGEND

- | | |
|---|---|
|  | 12W LED SQUARE PANEL LIGHT
(SURFACE MOUNTED) |
|  | 1 X 18W LED TUBE LIGHT IN LOUVER
FIXTURE (SURFACE MOUNTED) |
|  | 2 X 18W LED TUBE LIGHT IN LOUVER
FIXTURE (SURFACE MOUNTED) |
|  EL | LED UFO EMERGENCY LIGHT
(RECESSED MOUNTED) |
|  | LED EMERGENCY LIGHT WITH
ONE GANG OUTLET |
|  | CEILING FAN |
|  | LED EMERGENCY EXIT SIGNAGE |
|  | PANEL BOARD |
|  | HOMERUN CIRCUIT |
| S_{a1} | ONE GANG SWITCH |
| S_{ab} | TWO GANG SWITCH |
| S_{abc} | THREE GANG SWITCH |
| S_{3Wa} | ONE GANG 3-WAY SWITCH |
| S_{fan1} | CEILING FAN CONTROL SWITCH |
|  | 4" X 4" PVC PULLBOX |
|  | PANELBOARD |



SECOND FLOOR LIGHTING LAYOUT

SCALE 1:150 MTS.

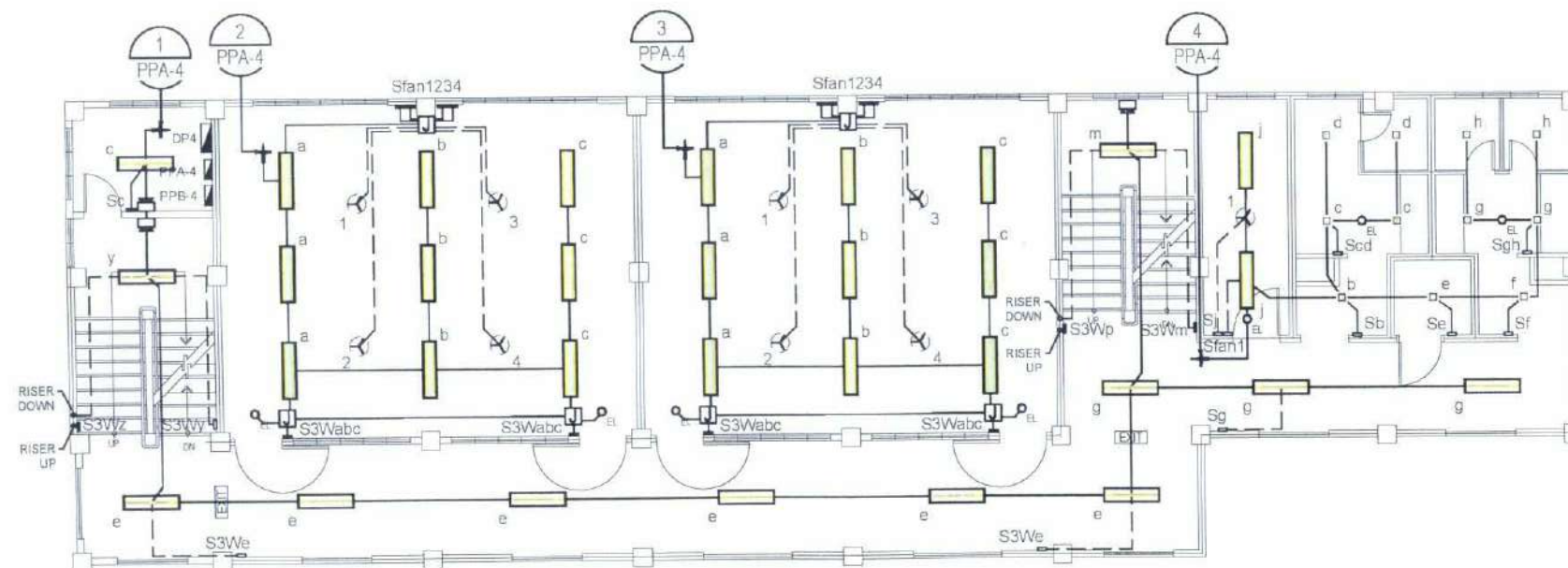


THIRD FLOOR LIGHTING LAYOUT

SCALE 1:150 MTS.

LEGEND

- 12W LED SQUARE PANEL LIGHT (SURFACE MOUNTED)
- 1 X 18W LED TUBE LIGHT IN LOUVER FIXTURE (SURFACE MOUNTED)
- 2 X 18W LED TUBE LIGHT IN LOUVER FIXTURE (SURFACE MOUNTED)
- LED UFO EMERGENCY LIGHT (RECESSED MOUNTED)
- LED EMERGENCY LIGHT WITH ONE GANG OUTLET
- CEILING FAN
- LED EMERGENCY EXIT SIGNAGE
- PANEL BOARD
- HOMERUN CIRCUIT
- ONE GANG SWITCH
- TWO GANG SWITCH
- THREE GANG SWITCH
- ONE GANG 3-WAY SWITCH
- CEILING FAN CONTROL SWITCH
- 4" X 4" PVC PULLBOX
- PANELBOARD



FOURTH FLOOR LIGHTING LAYOUT

SCALE 1:150 MTS.



TARLAC STATE UNIVERSITY
Facilities Development and
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Bureau Road, Tarlac City, Philippines 3300

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SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

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CHECKED BY:

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HEAD, OFDM-POU

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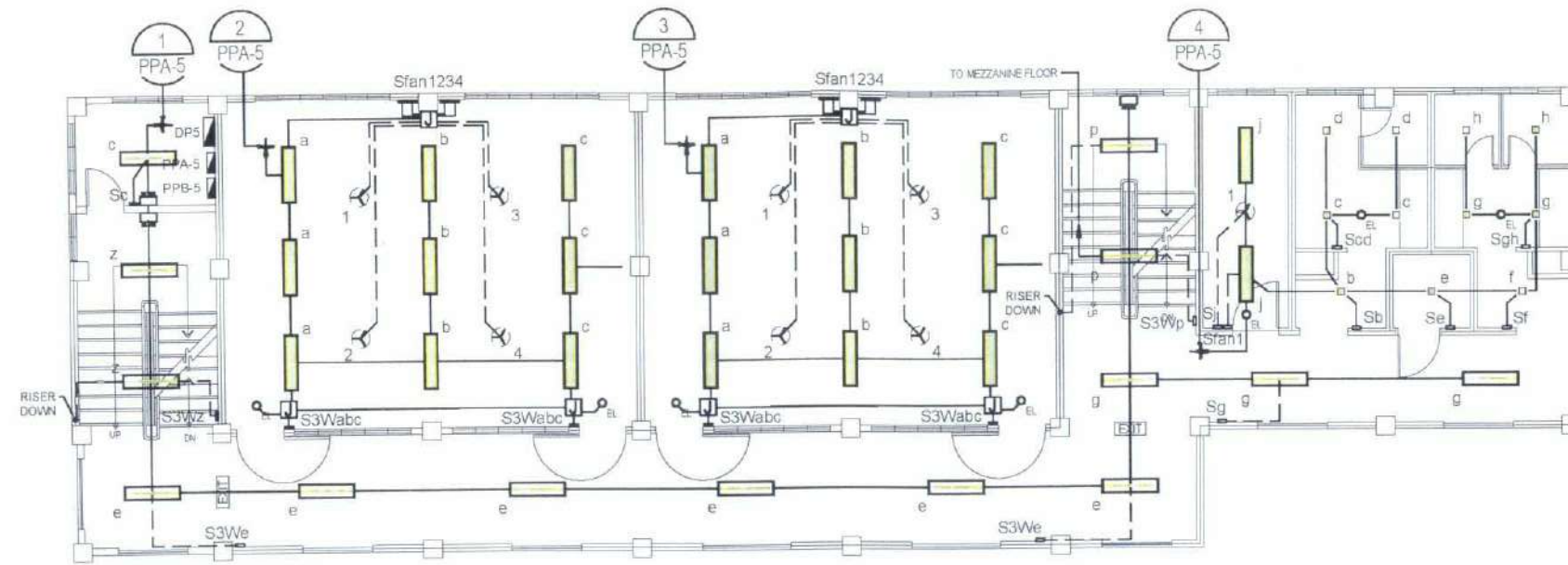
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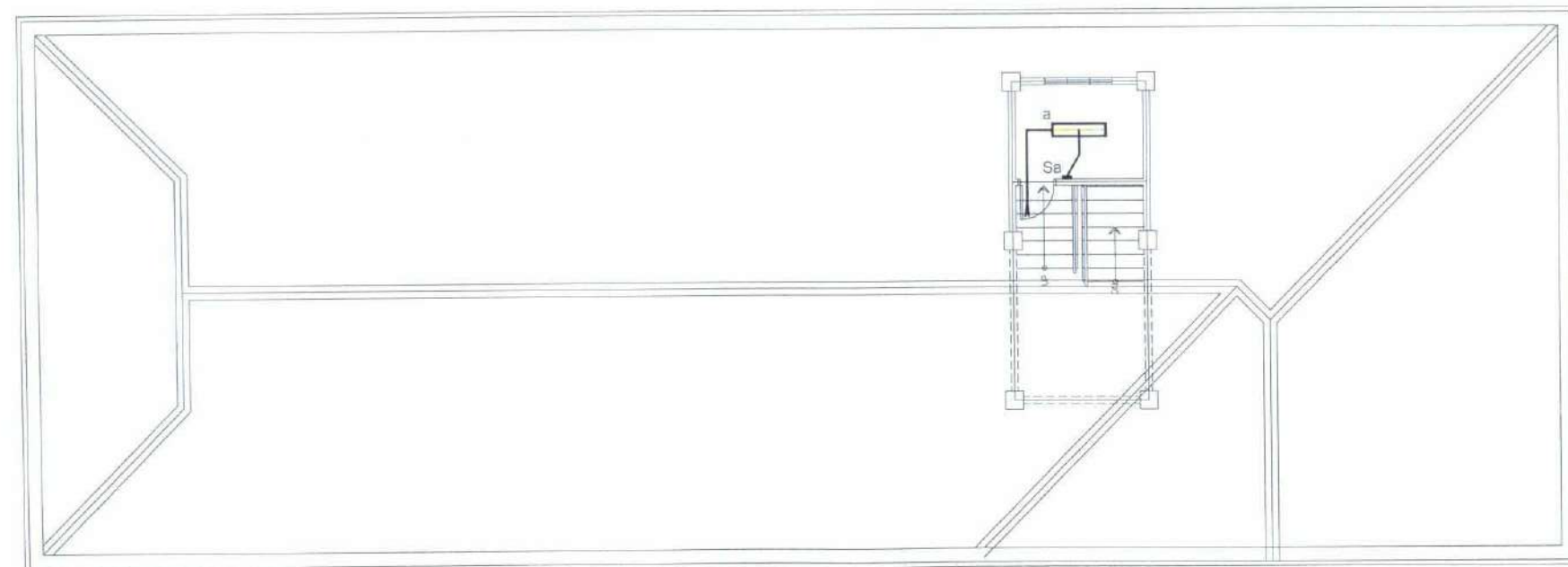


FIFTH FLOOR LIGHTING LAYOUT

SCALE 1:150 MTS.

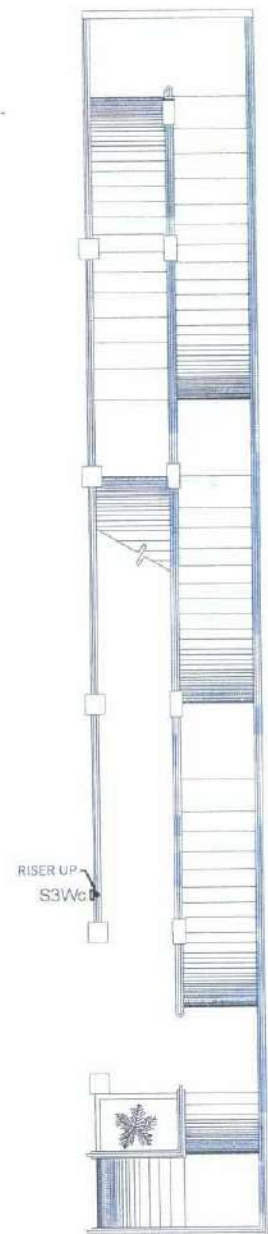
LEGEND

- 12W LED SQUARE PANEL LIGHT (SURFACE MOUNTED)
- 1 X 18W LED TUBE LIGHT IN LOUVER FIXTURE (SURFACE MOUNTED)
- 2 X 18W LED TUBE LIGHT IN LOUVER FIXTURE (SURFACE MOUNTED)
- LED UFO EMERGENCY LIGHT (RECESSED MOUNTED)
- LED EMERGENCY LIGHT WITH ONE GANG OUTLET
- CEILING FAN
- LED EMERGENCY EXIT SIGNAGE
- PANEL BOARD
- HOMERUN CIRCUIT
- ONE GANG SWITCH
- TWO GANG SWITCH
- THREE GANG SWITCH
- ONE GANG 3-WAY SWITCH
- CEILING FAN CONTROL SWITCH
- 4" X 4" PVC PULLBOX
- PANELBOARD

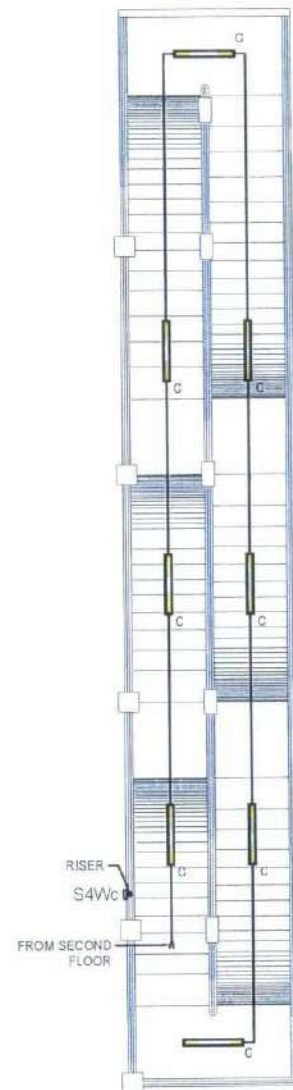


MEZZANINE FLOOR LIGHTING LAYOUT

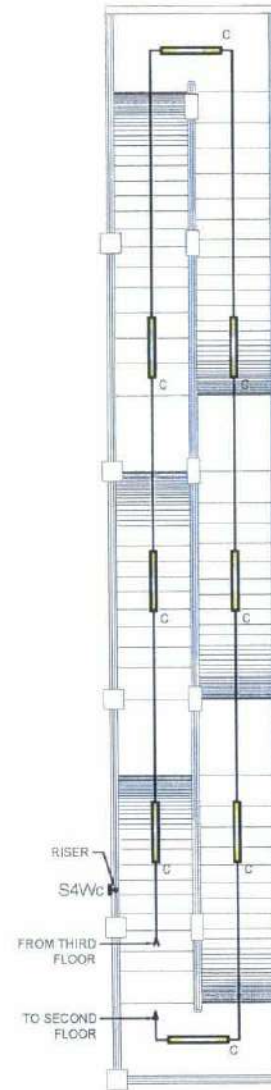
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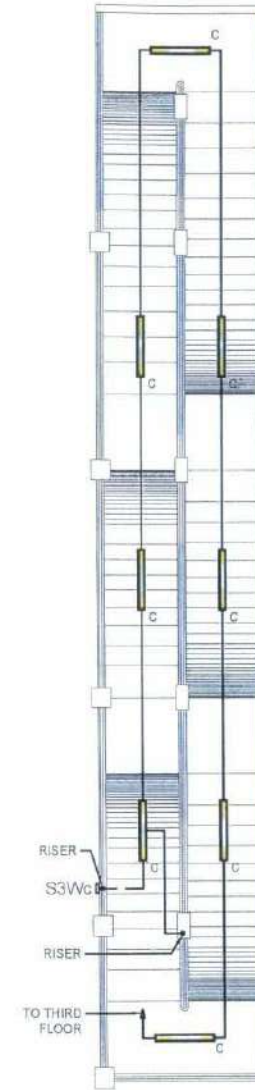
GROUND FLOOR



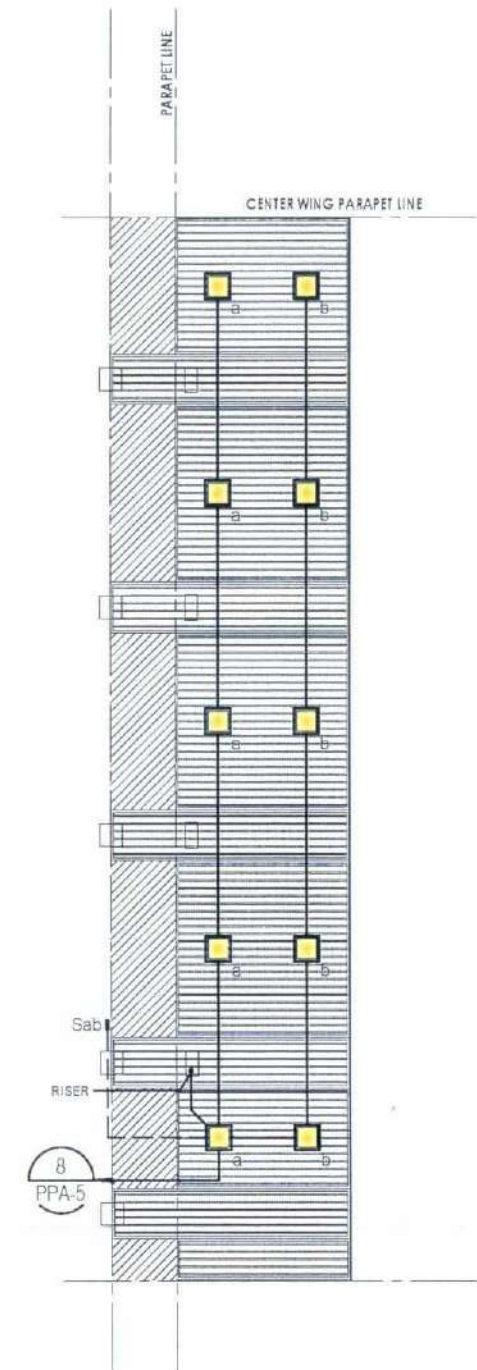
SECOND FLOOR



THIRD FLOOR



FOURTH FLOOR



FIFTH FLOOR EAVES

LEGEND



18W LED SQUARE PANEL LIGHT
(SURFACE MOUNTED)



1 X 18W T8 LED TUBE LIGHT WEATHERPROOF
HOUSING (SURFACE MOUNTED)

RAMP LIGHTING LAYOUT

SCALE 1:150 MTS.



TARLAC STATE UNIVERSITY
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RECOMMENDING APPROVAL:

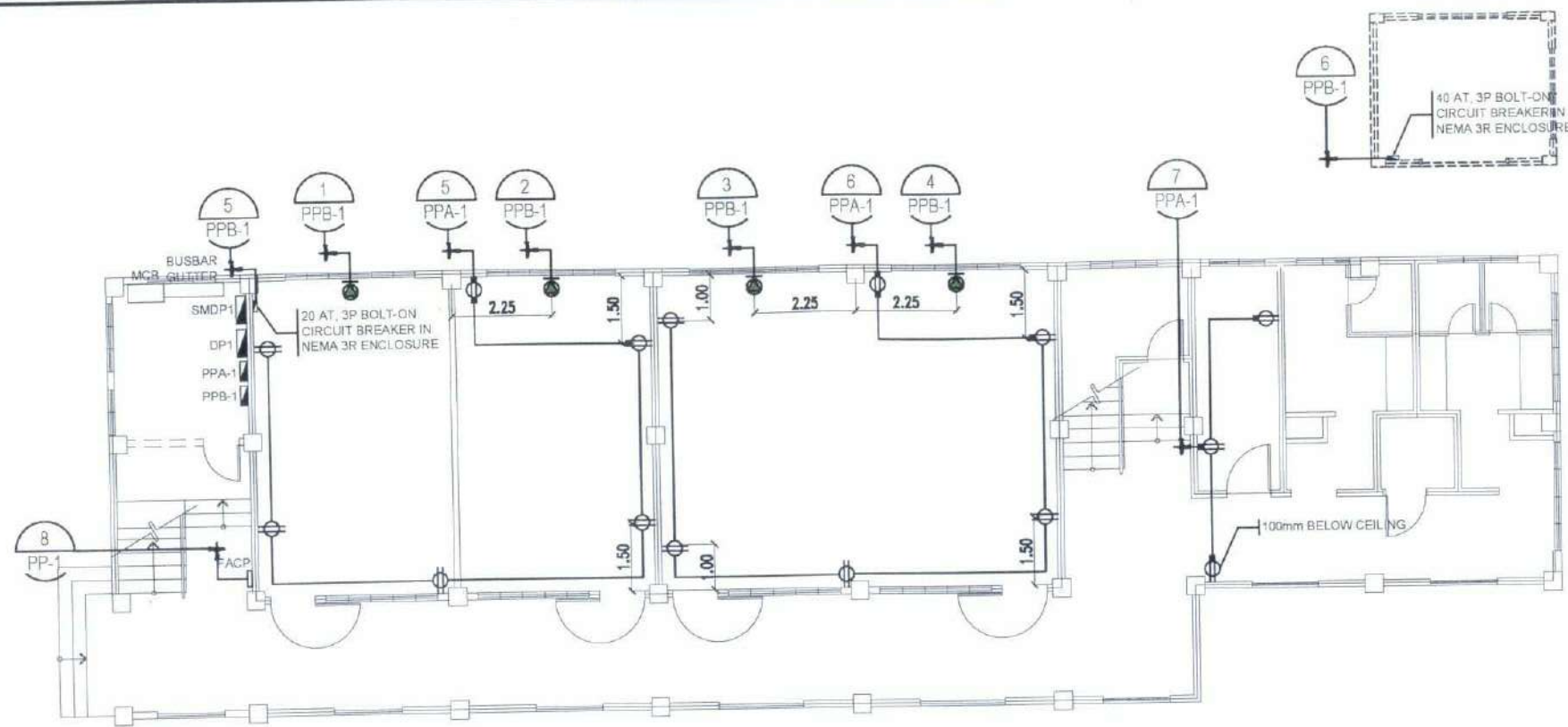
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VP FOR ADMINISTRATION

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DR. ARNOLD E. VELASCO
PRESIDENT

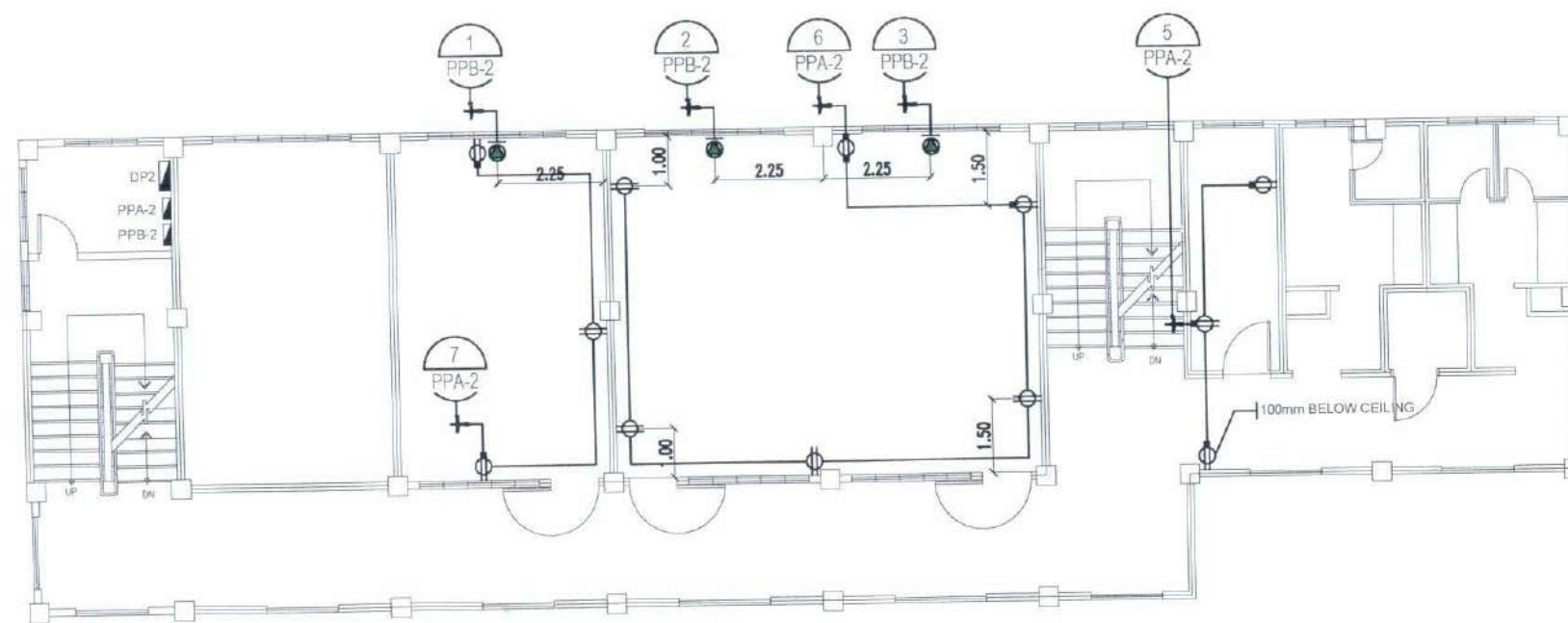
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GROUND FLOOR POWER LAYOUT

SCALE 1:150 MTS.



SECOND FLOOR POWER LAYOUT

SCALE 1:150 MTS.

LEGEND

- UNIVERSAL DUPLEX CONVENIENCE OUTLET
- AIR CONDITIONING UNIT OUTLET
- NEMA 3R ENCLOSURE WITH MCB
- PANEL BOARD
- HOMERUN CIRCUIT
- FIRE ALARM CONTROL PANEL



TARLAC STATE UNIVERSITY
Facilities Development and
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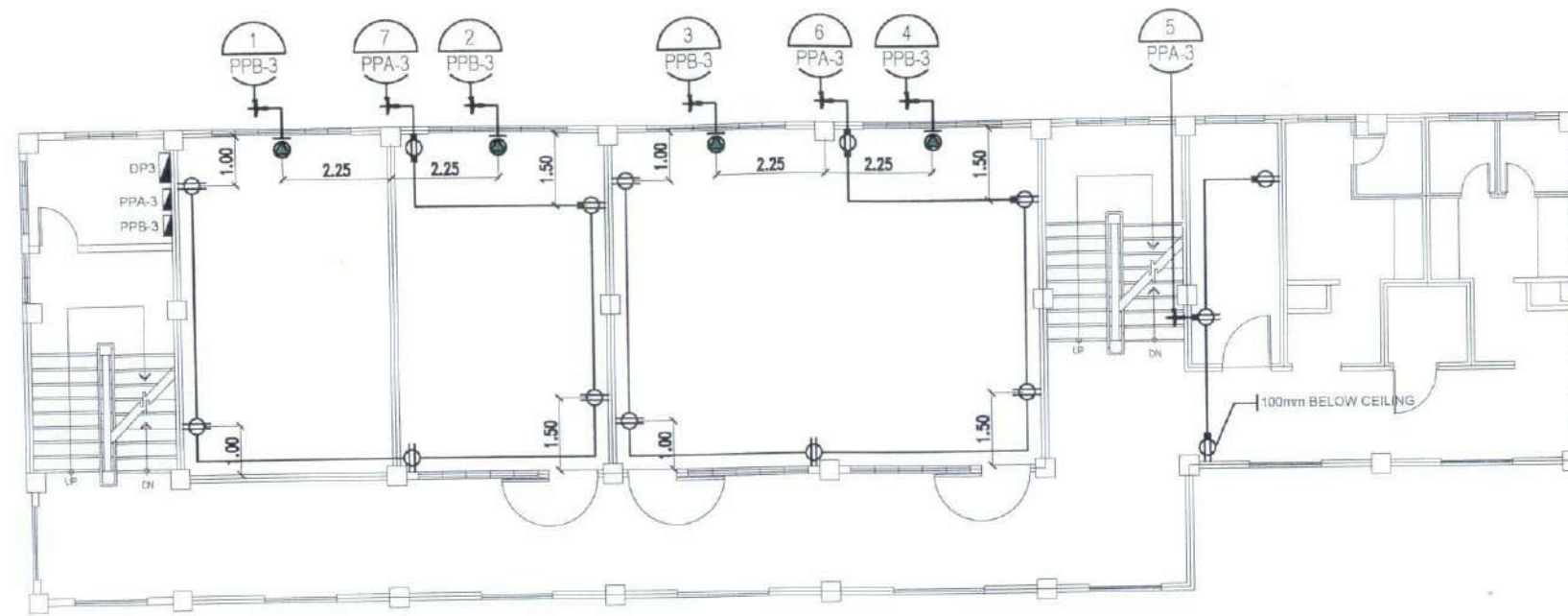
RECOMMENDING APPROVAL

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

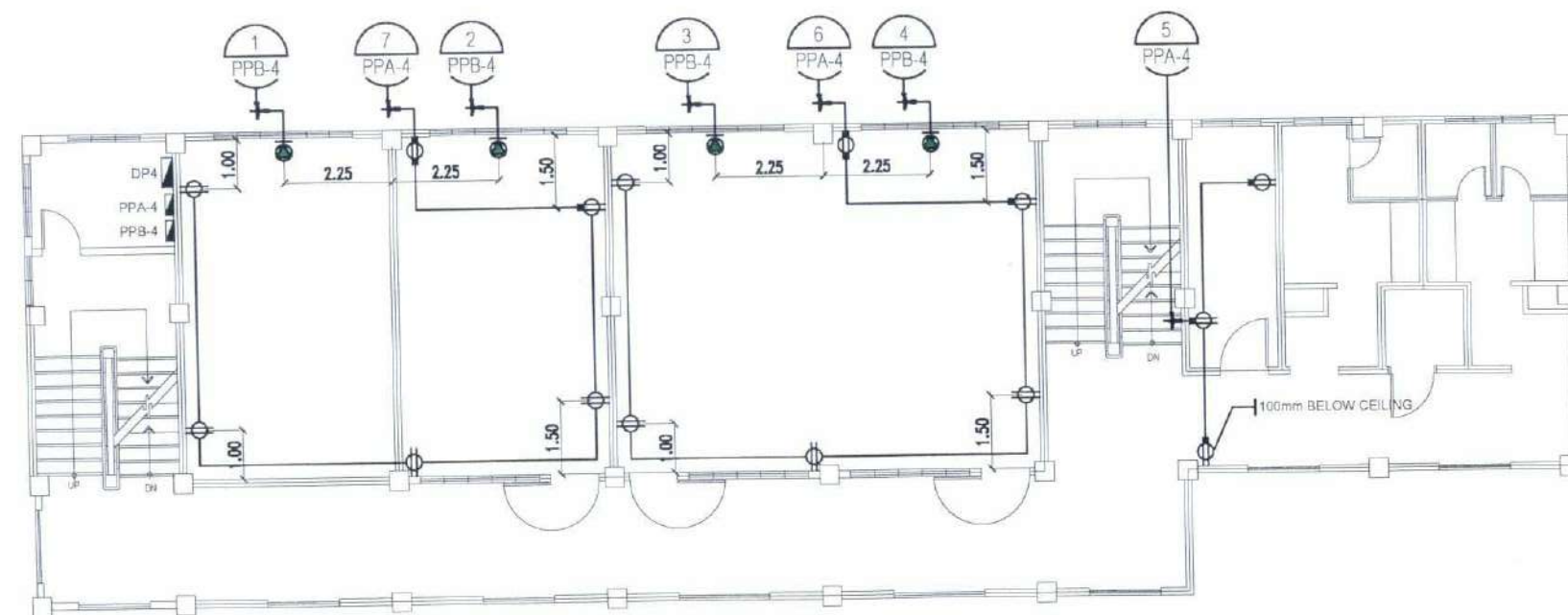
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THIRD FLOOR POWER LAYOUT
SCALE 1:150 MTS.



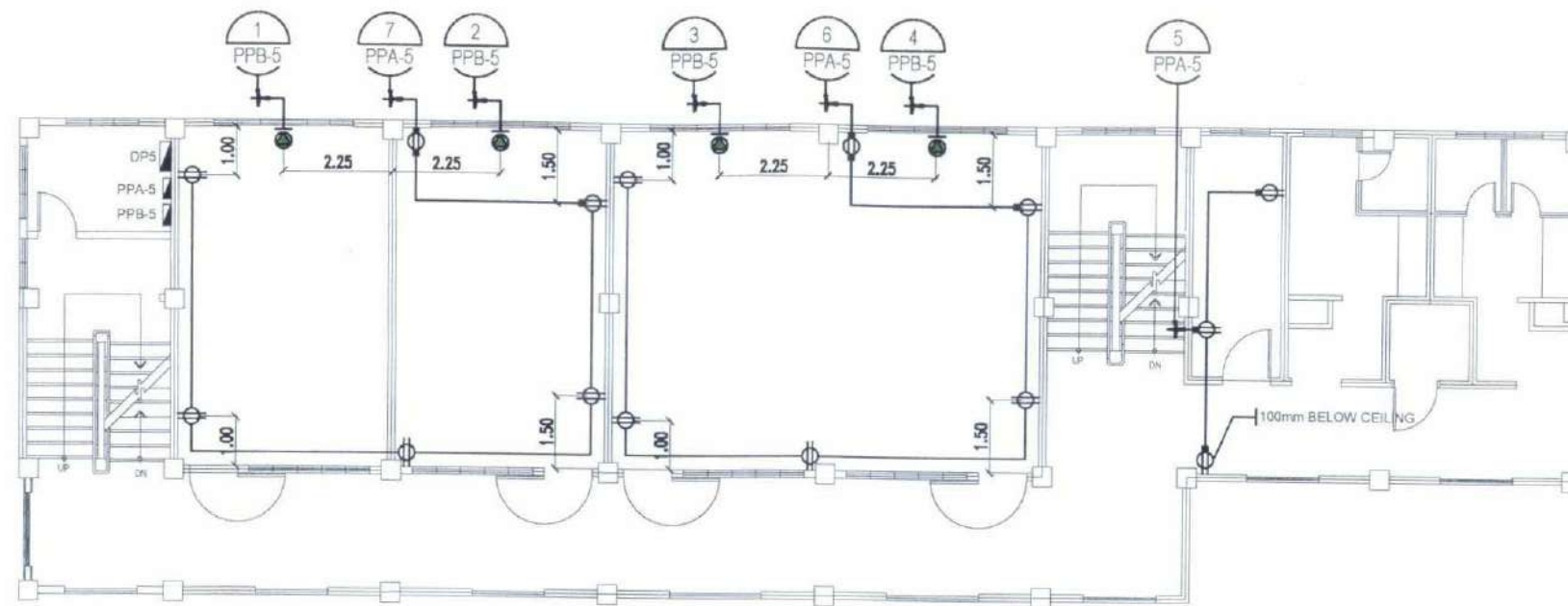
FOURTH FLOOR POWER LAYOUT
SCALE 1:150 MTS.

LEGEND

- UNIVERSAL DUPLEX CONVENIENCE OUTLET
- AIR CONDITIONING UNIT OUTLET
- NEMA 3R ENCLOSURE WITH MCB
- PANEL BOARD
- HOMERUN CIRCUIT
- FIRE ALARM CONTROL PANEL

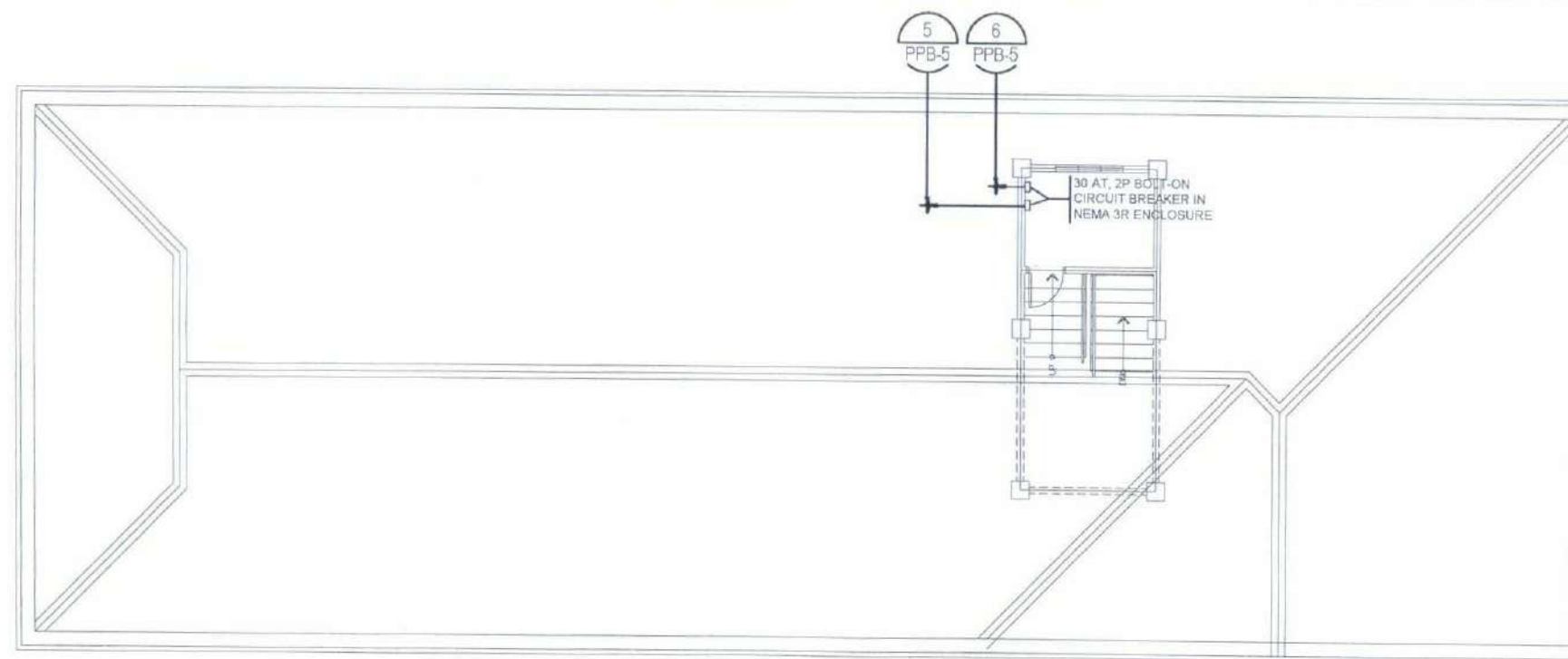


PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: ENGR. MISAEL REIGH MIEL V. CABANSAG ELECTRICAL ENGINEER, OFDM-MIU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO: E-06 PAGE NO: 85 / 119
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FIFTH FLOOR POWER LAYOUT

SCALE 1:150 MTS.



MEZZANINE FLOOR POWER LAYOUT

SCALE 1:150 MTS.

LEGEND

- UNIVERSAL DUPLEX CONVENIENCE OUTLET
- AIR CONDITIONING UNIT OUTLET
- NEMA 3R ENCLOSURE WITH MCB
- PANEL BOARD
- HOMERUN CIRCUIT
- FIRE ALARM CONTROL PANEL

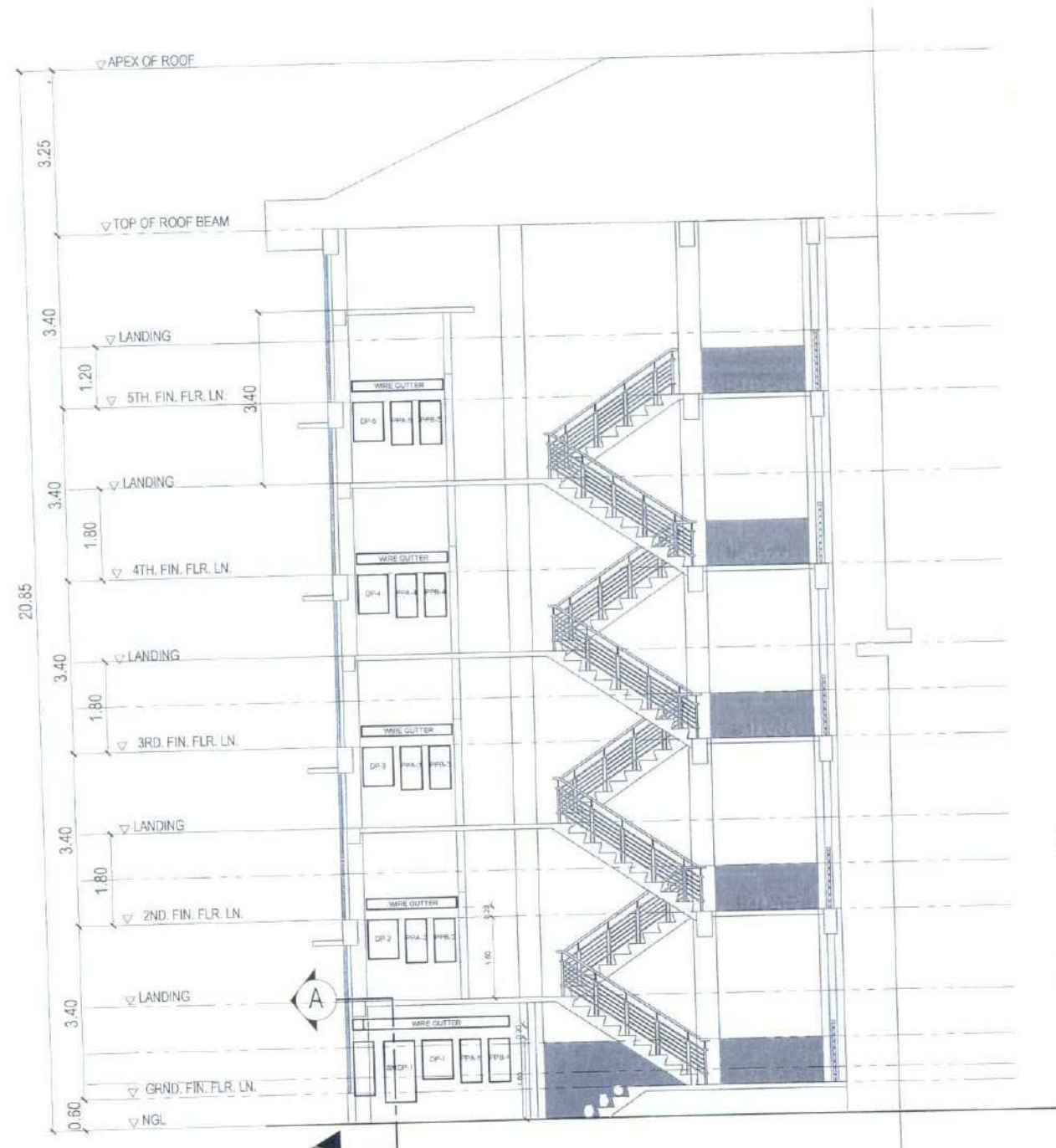


TARLAC STATE UNIVERSITY
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PROJECT TITLE:	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY:	ENGR. MISABEL REIGH MIEL V. CASANSAG ELECTRICAL ENGINEER, OFDM-MBU	CHECKED BY:	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY:	AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:	DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL:	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED:	DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS:	AS SHOWN	SHEET NO:	E-07
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY													DATE: 2025		86 / 119	

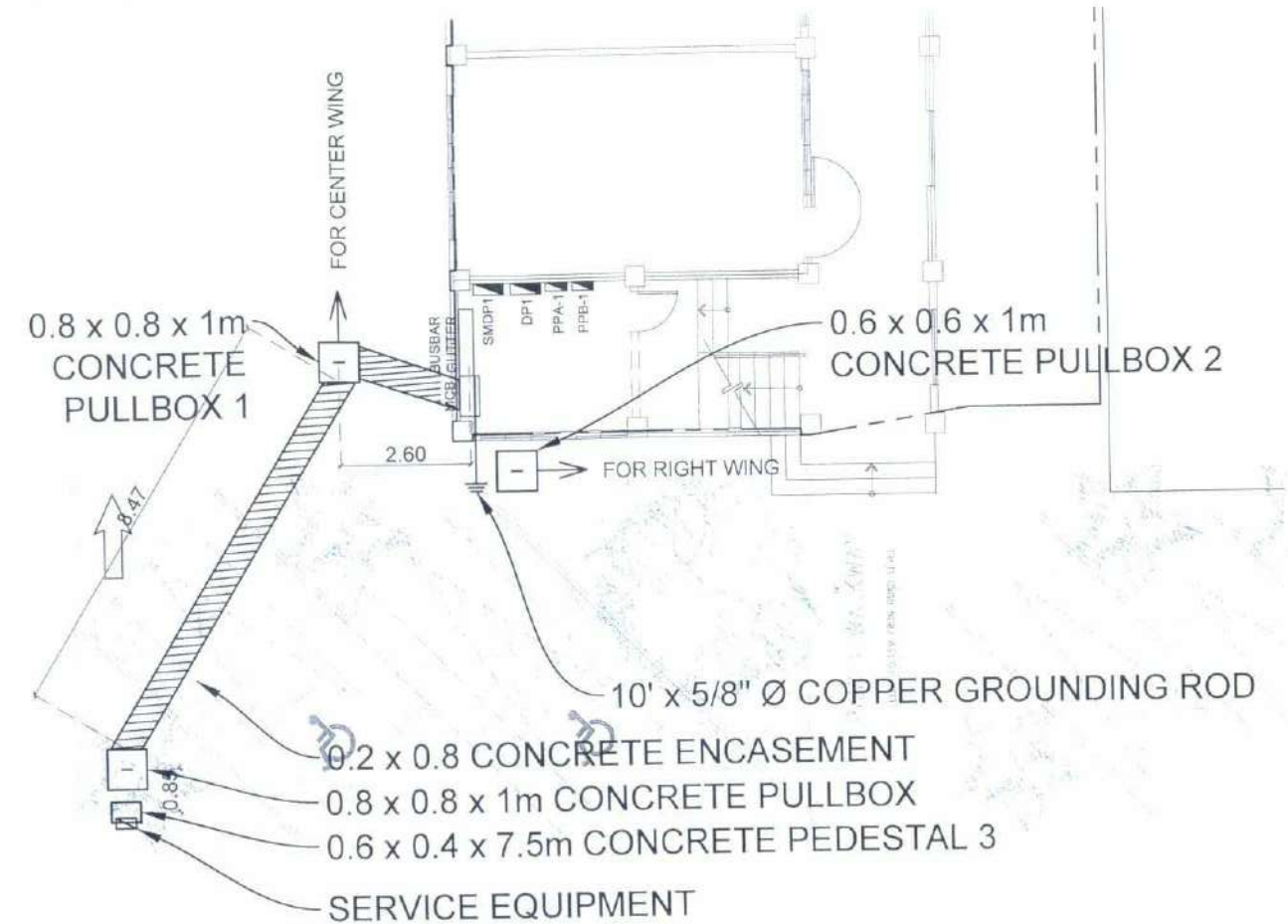
NOTE:

ALL RISER PIPE FOR PANELBOARDS SHALL BE ELECTRICAL METALLIC TUBING.



ELECTRICAL ROOM ELEVATION

SCALE 1:100 MTS.



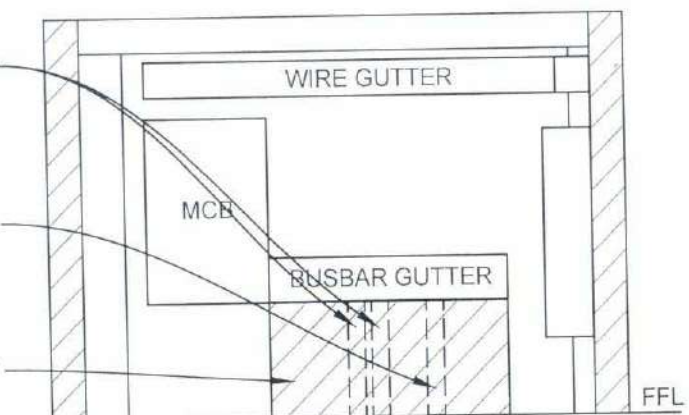
MAIN FEEDER LINE LAYOUT

SCALE 1: 150MTS.

PROVIDE 2 X 4" Ø PVC CONDUIT FROM BUSBAR GUTTER TO CONCRETE PULLBOX 1 FOR FUTURE USE

PROVIDE 1 X 4" Ø PVC CONDUIT FROM BUSBAR GUTTER TO CONCRETE PULLBOX 2 FOR FUTURE USE

CONCRETE ENCASEMENT



SECTION ELEVATION @ A

SCALE NTS.



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DEAN, COE

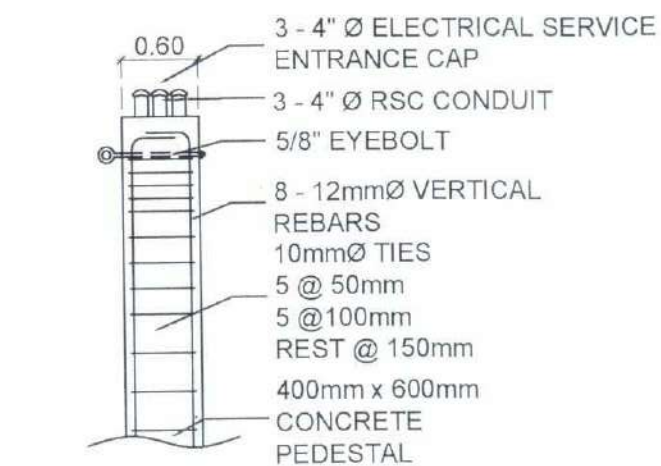
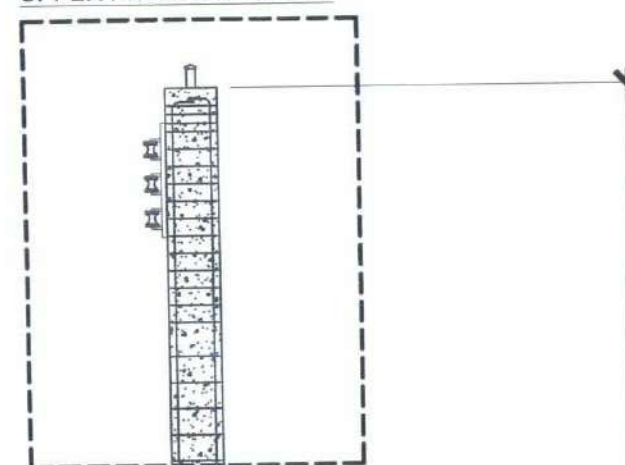
RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

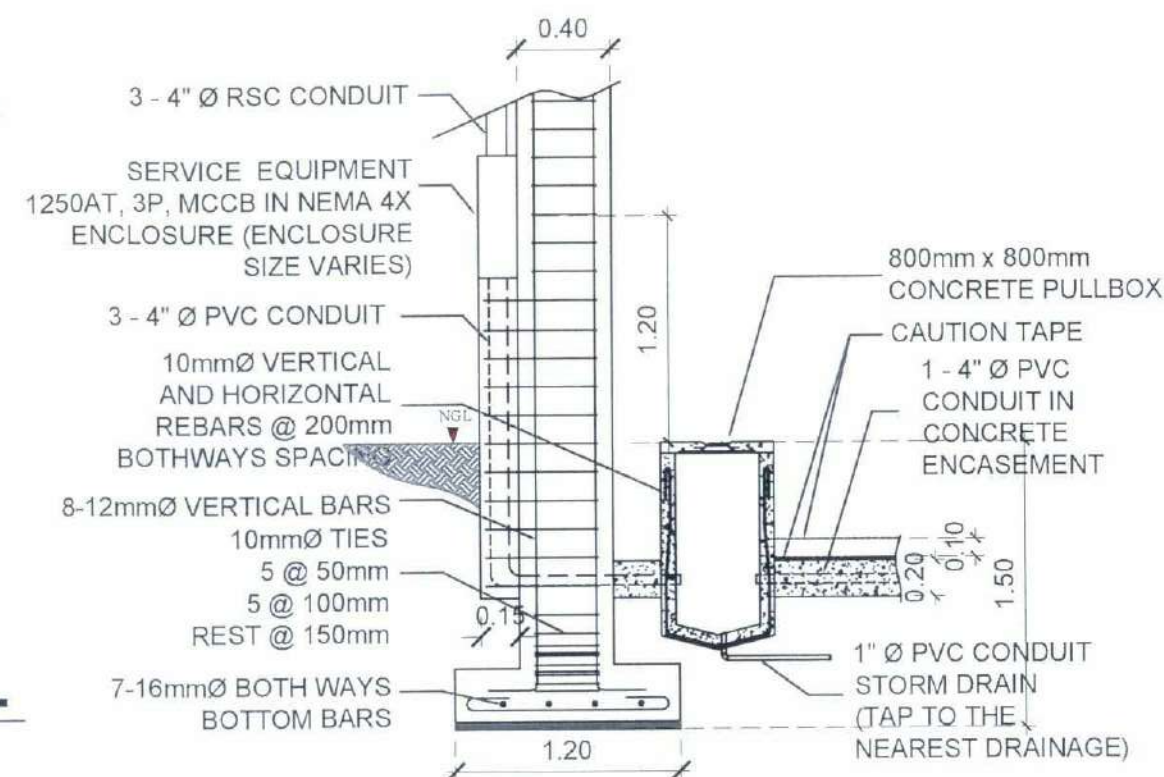
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UPPER PEDESTAL DETAIL



UPPER PEDESTAL DETAIL

SCALE NTS.

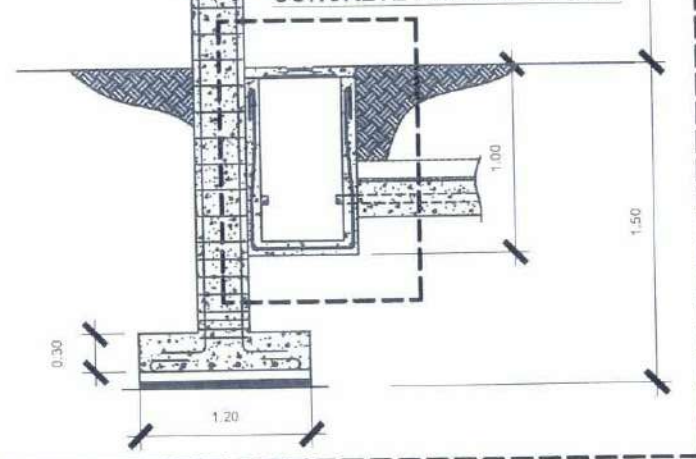


LOWER PEDESTAL DETAIL

SCALE NTS.

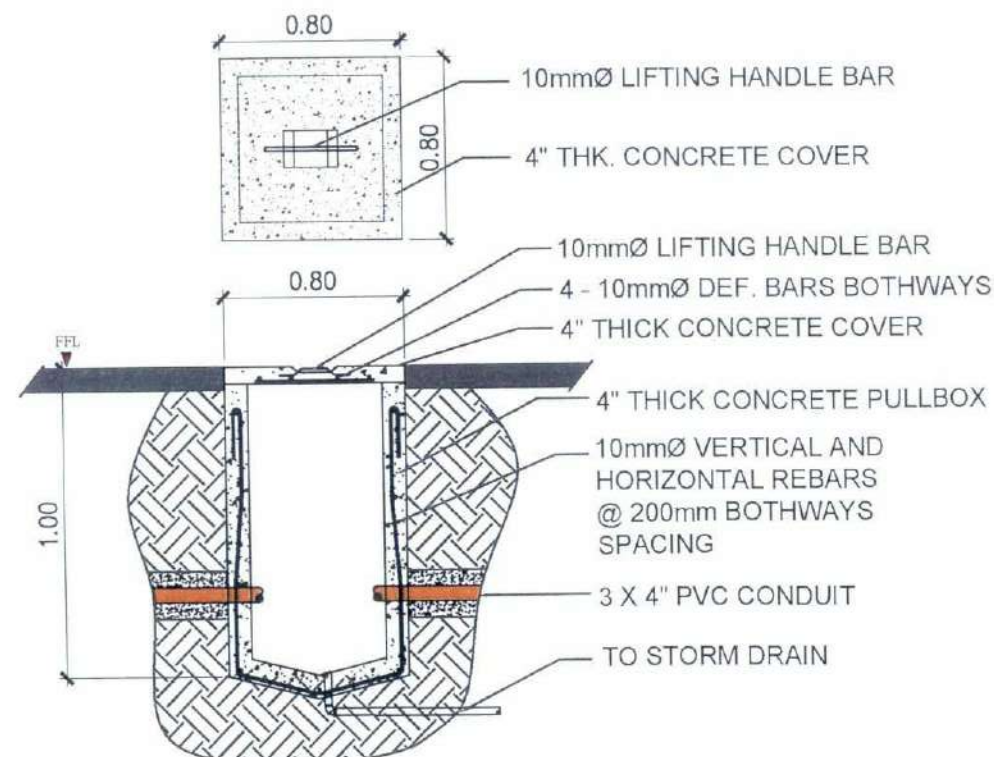
LOWER PEDESTAL DETAIL

CONCRETE PULLBOX DETAIL



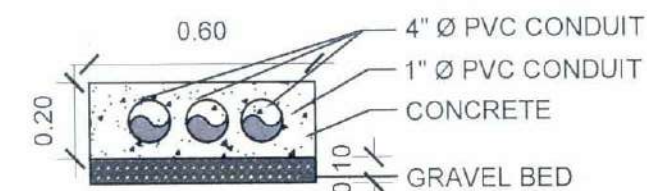
SERVICE ENTRANCE PEDESTAL

SCALE NTS.



CONCRETE PULLBOX DETAILS

SCALE 1:25MTS.



CONCRETE
ENCASEMENT DETAILS

SCALE 1:20MTS.



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Ramonio Roadward, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

ENGR. MISAEL REIGH MIEL V. CABANSAG
ELECTRICAL ENGINEER, OFDM-MU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. BALVEZ
DEAN, COE

RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

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SINGLE LINE DIAGRAM

1. ALL WORKS HEREIN SHALL COMPLY WITH THE LATEST PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND WITH RULES AND REGULATIONS OF THE POWER COMPANY CONCERNED.
2. ALL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY QUALIFIED AND COMPETENT LICENSED ELECTRICAL ENGINEER.
3. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE NEW AND APPROVED TYPE FOR THE LOCATION AND PURPOSES.
4. THE SERVICE ENTRANCE SHALL BE THREE-PHASE, THREE-WIRES, 230 V, 60Hz.
5. WHENEVER REQUIRED AND NECESSARY PVC PULL BOXES AND JUNCTION BOXES SHALL BE INSTALLED AT CONVENIENT SPACE AND LOCATION.
6. ALL PANEL BOARDS SHALL BE BREAKER TYPE ENCLOSED IN A METAL CABINET, ALL MAIN BRANCHES AND MOTOR PANEL SHALL BE BOLT-ON.
7. ALL CONVENIENCE OUTLETS, 3 PRONG (PARALLEL SLOT, GROUNDING TYPE) AND LIGHTING SWITCHES SHALL BE RATED 15A, 240V, AND 10A, 240V RESPECTIVELY AS MANUFACTURED.
8. ALL LINE CABLES SHALL HAVE 90°C RATED THHN/THWN-2 INSULATION.
9. THE MINIMUM WIRE AND CONDUIT SIZE SHALL BE 3.5mm SQUARE THHN/THWN COPPER AND 20MM Ø RESPECTIVELY. (REFER TO THE LOAD SCHEDULE FOR THE OTHER WIRE AND CONDUIT SIZES).
10. FOR EACH SPACE BRANCH CIRCUIT IN PANEL BOARD PROVIDE ONE EMPTY 20mm Ø CONDUIT CONNECTED TO AN OCTAGONAL BOX ABOVE THE CEILING.
11. ALL SPECIFIED CONDUCTOR SHALL BE MADE OF COPPER.
12. CONDUIT TRADE SIZES WERE SPECIFIED BASED ON INNER DIAMETER.
13. ALL FEEDERS AND BRANCH CIRCUITS SHALL BE INSTALLED AS INDICATED ON PLAN. INDIVIDUAL CIRCUIT HOMERUNS TO PANEL BOARDS SHALL NOT BE COMBINED IN THE SAME RACEWAY UNLESS OTHERWISE INDICATED.
14. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:

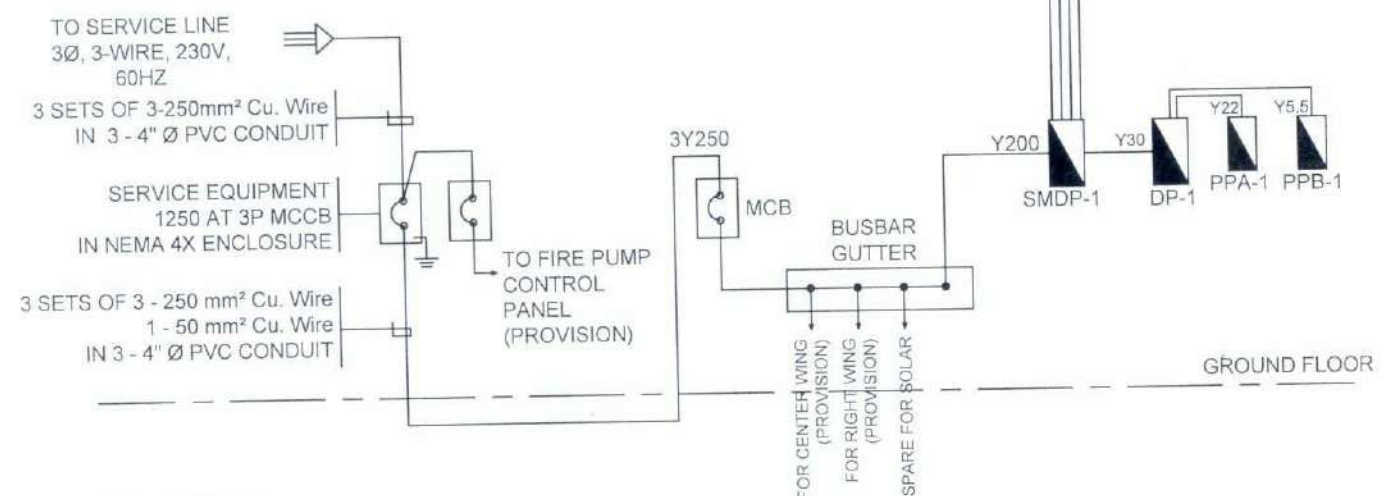
- | | | |
|----|--|---------------------------------|
| A. | LIGHTING SWITCHES | 1.40M ABOVE FINISHED FLOOR LINE |
| B. | CONVENIENCE OUTLETS | 0.30M ABOVE FINISHED FLOOR LINE |
| C. | TELEPHONE OUTLETS | 0.40M ABOVE FINISHED FLOOR LINE |
| D. | PANEL BOARDS AND
TELEPHONE CABINETS | 1.40M ABOVE FINISHED FLOOR LINE |

15. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, THE FOLLOWING TESTS SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE OWNER'S REPRESENTATIVE.

- A. INSTALLATION RESISTANCE TEST
C. OPERATIONAL TEST
- B. GROUND RESISTANCE TEST
D. SYSTEM TEST AND ACCEPTANCE

16. WORKMANSHIP: THE WORK THROUGHOUT SHALL BE EXECUTED IN THE MOST AND THOROUGH MANNER KNOWN TO TRADE AND SATISFACTION OF THE ARCHITECT AND ENGINEER.

SYMBOL	WIRING SIZE				CONDUIT SIZE
Y3.5	3-3.5 SQ.MM	THHN/TW/N-2	1-3.5 SQ.MM	THHN (G)	3/4" Ø
Y5	3-5.5 SQ.MM	THHN/TW/N-2	1-5.5 SQ.MM	THHN (G)	1" Ø
Y8	3-8.0 SQ.MM	THHN/TW/N-2	1-5.5 SQ.MM	THHN (G)	1" Ø
Y14	3-14 SQ.MM	THHN/TW/N-2	1-5.5 SQ.MM	THHN (G)	1 1/4" Ø
Y22	3-22 SQ.MM	THHN/TW/N-2	1-5.5 SQ.MM	THHN (G)	1 1/4" Ø
Y30	3-30 SQ.MM	THHN/TW/N-2	1-8.0 SQ.MM	THHN (G)	1 1/2" Ø
Y38	3-38 SQ.MM	THHN/TW/N-2	1-14 SQ.MM	THHN (G)	1 1/2" Ø
Y50	3-50 SQ.MM	THHN/TW/N-2	1-14 SQ.MM	THHN (G)	2" Ø
Y60	3-60 SQ.MM	THHN/TW/N-2	1-22 SQ.MM	THHN (G)	2" Ø
Y80	3-80 SQ.MM	THHN/TW/N-2	1-22 SQ.MM	THHN (G)	2" Ø
Y100	3-100 SQ.MM	THHN/TW/N-2	1-30 SQ.MM	THHN (G)	2 1/2" Ø
Y125	3-125 SQ.MM	THHN/TW/N-2	1-30 SQ.MM	THHN (G)	2 1/2" Ø
Y150	3-150 SQ.MM	THHN/TW/N-2	1-30 SQ.MM	THHN (G)	3" Ø
Y175	3-175 SQ.MM	THHN/TW/N-2	1-30 SQ.MM	THHN (G)	3" Ø
Y200	3-200 SQ.MM	THHN/TW/N-2	1-50 SQ.MM	THHN (G)	4" Ø
Y250	3-250 SQ.MM	THHN/TW/N-2	1-50 SQ.MM	THHN (G)	4" Ø



LOAD SCHEDULE

PANEL BOARD		MCB				LOCATION				ELECTRICAL ROOM (GROUND FLOOR)		
FROM		SERVICE ENTRANCE				SYSTEM VOLTAGE				3ø, 3 Wire, 230V		
CIRCUIT NUMBER	DESCRIPTION	AMPERE PER PHASE				CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT
		AB	BC	CA	ABC	AT	AF	POLE				
1	SMDP-1	177.94	167.13	183.34	20.72	320	400	3	3 - 200 mm ²	THHN/THWN-2	1 - 50 mm ²	1 - 4" ø IMC
2	SMDP-2 (PROVISION FOR CENTER WING)	382.24	409.87	377.26	15.20							
3	SMDP-3 (PROVISION FOR RIGHT WING)	177.94	167.13	183.34	20.72							
4	SPACE (PROVISION FOR SOLAR)											
COMPUTATION												
TOTAL CONNECTED LOADS PER PHASE (A)		738.12	744.12	743.95	56.65			Phase Multiplier		1.732	Voltage	230
TOTAL LOAD CURRENT (A)		1345.46										
DEMAND FACTOR APPLICATION		80%										
DEMAND LOAD CURRENT (A)		1076.37				1250	2000	3	3 SETS OF 3 - 250 mm ²	THHN/THWN-2	1 - 50 mm ²	3 - 4" ø PVC 1 CONCRETE PEDESTAL
		ENCLOSURE				NEMA 1		MOUNTING		WALL MOUNTED		

PANEL BOARD		SMDP-1				LOCATION			ELECTRICAL ROOM (GROUND FLOOR)			
FROM		MCB				SYSTEM VOLTAGE			3q, 3 Wire, 230V			
CIRCUIT NUMBER	DESCRIPTION	AMPERE PER PHASE				CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT
		AB	BC	CA	ABC	AT	AF	POLE				
1	DP-1	39.58	33.34	33.98	20.72	100	100	3	3 - 30 mm ²	THHN/THWN-2	1 - 8.0 mm ²	1 1/2" ϕ EMT
2	DP-2	31.60	33.34	33.98		80	100	3	3 - 22 mm ²	THHN/THWN-2	1 - 8.0 mm ²	1 1/2" ϕ EMT
3	DP-3	32.93	36.97	33.98		80	100	3	3 - 22 mm ²	THHN/THWN-2	1 - 8.0 mm ²	1 1/2" ϕ EMT
4	DP-4	32.93	28.99	41.96		80	100	3	3 - 22 mm ²	THHN/THWN-2	1 - 8.0 mm ²	1 1/2" ϕ EMT
5	DP-5	40.91	34.47	39.46		80	100	3	3 - 22 mm ²	THHN/THWN-2	1 - 8.0 mm ²	1 1/2" ϕ EMT
6	SPACE											
COMPUTATION												
TOTAL CONNECTED LOADS PER PHASE (A)		177.94	167.13	183.34	20.7226			Phase Multiplier		1.732	Voltage	230
TOTAL LOAD CURRENT (A)		338.27										
DEMAND FACTOR APPLICATION		80%										
DEMAND LOAD CURRENT (A)		270.62				320	400	3	3 - 200 mm ²	THHN/THWN-2	1 - 50 mm ²	1 - 4" ϕ IMC
		ENCLOSURE				NEMA 1		MOUNTING		WALL MOUNTED		

PANEL BOARD		DP-1				LOCATION				ELECTRICAL ROOM (GROUND FLOOR)		
FROM		SMDP-1				SYSTEM VOLTAGE				3ø, 3 Wire, 230V		
CIRCUIT NUMBER	DECRPTION	AMPERE PER PAHSE				CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT
		AB	BC	CA	ABC	AT	AF	POLE				
1	PPA-1	10.58	12.32	12.96		30	100	3	3 - 5.5 mm²	THHN/THWN-2	1 - 3.5 mm²	1" ø EMT
2	PPB-1	29.00	21.02	21.02	20.72	80	100	3	3 - 22 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/4" ø EMT
3	SPACE											
4	SPACE											
COMPUTATION												
TOTAL CONNECTED LOADS PER PHASE (A)		39.58	33.34	33.98	20.72			Phase Multiplier		1.732	Voltage	230
TOTAL LOAD CURRENT (A)		89.27										
DEMAND FACTOR APPLICATION		80%										
DEMAND LOAD CURRENT (A)		71.42				100	100	3	3 - 30 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/2" ø EMT
		ENCLOSURE				NEMA 1		MOUNTING		WALL MOUNTED		

PANEL BOARD		DP-2				LOCATION			ELECTRICAL ROOM (SECOND FLOOR)			
FROM		SMDP-1				SYSTEM VOLTAGE			3ø, 3 Wire, 230V			
CIRCUIT NUMBER	DESCRIPTION	AMPERE PER PHASE				CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT
		AB	BC	CA	ABC	AT	AF	POLE				
1	PPA-2	10.58	12.32	12.96		30	100	3	3 - 5.5 mm²	THHN/THWN-2	1 - 3.5 mm²	1" ø EMT
2	PPB-2	21.02	21.02	21.02		60	100	3	3 - 14 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/4" ø EMT
3	SPACE											
4	SPACE											
COMPUTATION												
TOTAL CONNECTED LOADS PER PHASE (A)		31.60	33.34	33.98	0.00		Phase Multiplier			1.732	Voltage	230
TOTAL LOAD CURRENT (A)		58.85										
DEMAND FACTOR APPLICATION		80%										
DEMAND LOAD CURRENT (A)		47.08				80	100	3	3 - 22 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/2" ø EMT
		ENCLOSURE				NEMA 1			WALL MOUNTED			

PANEL BOARD		DP-3				LOCATION			ELECTRICAL ROOM (THIRD FLOOR)			
FROM		SMDP-1				SYSTEM VOLTAGE			3ø, 3 Wire, 230V			
CIRCUIT NUMBER	DECRPTION	AMPERE PER PAHSE				CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT
		AB	BC	CA	ABC	AT	AF	POLE				
1	PPA-3	11.91	7.97	12.96		30	100	3	3 - 5.5 mm²	THHN/THWN-2	1 - 3.5 mm²	1" ø EMT
2	PPB-3	21.02	29.00	21.02		60	100	3	3 - 14 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/4" ø EMT
3	SPACE											
4	SPACE											
COMPUTATION												
TOTAL CONNECTED LOADS PER PHASE (A)		32.93	36.97	33.98	0.00		Phase Multiplier			1.732	Voltage	230
TOTAL LOAD CURRENT (A)		64.04										
DEMAND FACTOR APPLICATION		80%										
DEMAND LOAD CURRENT (A)		51.23				80	100	3	3 - 22 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/2" ø EMT
		ENCLOSURE				NEMA 1		MOUNTING		WALL MOUNTED		

PANEL BOARD		DP-4				LOCATION			ELECTRICAL ROOM (FOURTH FLOOR)			
FROM		SMDP-1				SYSTEM VOLTAGE			3ø, 3 Wire, 230V			
CIRCUIT NUMBER	DECRPTION	AMPERE PER PAHSE				CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT
		AB	BC	CA	ABC	AT	AF	POLE				
1	PPA-4	11.91	7.97	12.96		30	100	3	3 - 5.5 mm²	THHN/THWN-2	1 - 3.5 mm²	1" ø EMT
2	PPB-4	21.02	21.02	29.00		60	100	3	3 - 14 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/4" ø EMT
3	SPACE											
4	SPACE											
COMPUTATION												
TOTAL CONNECTED LOADS PER PHASE (A)		32.93	28.99	41.96	0.00	Phase Multiplier			1.732	Voltage	230	
TOTAL LOAD CURRENT (A)		72.67										
DEMAND FACTOR APPLICATION		80%										
DEMAND LOAD CURRENT (A)		58.13				80	100	3	3 - 22 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/2" ø EMT
		ENCLOSURE				NEMA 1		MOUNTING		WALL MOUNTED		

PANEL BOARD		DP-5				LOCATION			ELECTRICAL ROOM (FIFTH FLOOR)			
FROM		SMDP-1				SYSTEM VOLTAGE			3ø, 3 Wire, 230V			
CIRCUIT NUMBER	DESCRIPTION	AMPERE PER PHASE				CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT
		AB	BC	CA	ABC	AT	AF	POLE				
1	PPA-5	11.91	7.97	12.96		30	100	3	3 - 5.5 mm²	THHN/THWN-2	1 - 3.5 mm²	1" ø EMT
2	PPB-5	29.00	22.50	26.50		60	100	3	3 - 14 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/4" ø EMT
3	SPACE											
4	SPACE											
COMPUTATION												
TOTAL CONNECTED LOADS PER PHASE (A)		40.91	30.47	39.46	0.00			Phase Multiplier		1.732	Voltage	230
TOTAL LOAD CURRENT (A)		70.85										
DEMAND FACTOR APPLICATION		80%										
DEMAND LOAD CURRENT (A)		56.68				80	100	3	3 - 22 mm²	THHN/THWN-2	1 - 8.0 mm²	1 1/2" ø EMT
			ENCLOSURE			NEMA 1		MOUNTING		WALL MOUNTED		

PANEL BOARD			PPA-1			LOCATION			ELECTRICAL ROOM (GROUND FLOOR)				
FROM			DP-1			SYSTEM VOLTAGE			3ø, 3 Wire, 230V				
CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VOLT-AMPERE	AMPERE PER PHASE			CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT
				AB	BC	CA	AT	AF	POLE				
1	LIGHTING OUTLET	15	229	1.00			15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
2	LIGHTING OUTLET	9	264	1.15			15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
3	LIGHTING OUTLET	14	567		2.47		15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
4	LIGHTING OUTLET	15	267		1.16		15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
5	CONVENIENCE OUTLET	3	540			2.35	20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
6	CONVENIENCE OUTLET	8	1440			6.26	20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
7	CONVENIENCE OUTLET	8	1440	6.26			20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
8	FIRE ALARM CONTROL PANEL	1	1500		6.52		20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
9	SPARE	1	500			2.17	20	100	2				
10	SPARE	1	500	2.17			20	100	2				
11	SPARE	1	500		2.17		20	100	2				
12	SPARE	1	500			2.17	20	100	2				
COMPUTATION													
TOTAL CONNECTED LOADS PER PHASE (A)				10.58	12.32	12.96	Phase Multiplier			1.732	Voltage (V)		230
TOTAL LOAD CURRENT (A)				22.44									
DEMAND FACTOR APPLICATION				80%									
DEMAND LOAD CURRENT (A)				17.95	30			100	3	3 - 5.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	1" ø EMT
			ENCLOSURE			NEMA 1		MOUNTING			WALL MOUNTED		

PANEL BOARD			PPA-2			LOCATION			ELECTRICAL ROOM (SECOND FLOOR)				
FROM			DP-2			SYSTEM VOLTAGE			3ø, 3 Wire, 230V				
CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VOLT-AMPERE	AMPERE PER PHASE			CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT
				AB	BC	CA	AT	AF	POLE				
1	LIGHTING OUTLET	16	232	1.01			15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
2	LIGHTING OUTLET	18	663	2.88			15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
3	LIGHTING OUTLET	14	567		2.47		15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
4	LIGHTING OUTLET	15	267		1.16		15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
5	CONVENIENCE OUTLET	3	540			2.35	20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
6	CONVENIENCE OUTLET	8	1440			6.26	20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
7	CONVENIENCE OUTLET	3	540	2.35			20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
8	SPARE	1	500		2.17		20	100	2				
9	SPARE	1	500			2.17	20	100	2				
10	SPARE	1	500	2.17			20	100	2				
11	SPARE	1	500		2.17		20	100	2				
12	SPARE	1	500			2.17	20	100	2				
COMPUTATION													
TOTAL CONNECTED LOADS PER PHASE (A)				8.41	7.97	12.96	Phase Multiplier			1.732	Voltage (V)		230
TOTAL LOAD CURRENT (A)				22.44									
DEMAND FACTOR APPLICATION				80%									
DEMAND LOAD CURRENT (A)				17.95	30			100	3	3 - 5.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	1" ø EMT
			ENCLOSURE			NEMA 1			MOUNTING			WALL MOUNTED	

PANEL BOARD			PPA-3			LOCATION			ELECTRICAL ROOM (THIRD FLOOR)				
FROM			DP-3			SYSTEM VOLTAGE			3ø, 3 Wire, 230V				
CIRCUIT NUMBER	DESCRIPTION	NO. OF OUTLET	VOLT-AMPERE			CIRCUIT BREAKER			CONDUCTOR	TYPE OF WIRE	GROUND	CONDUIT	
			AMPERE	AB	BC	CA	AT	AF					POLE
1	LIGHTING OUTLET	16	232	1.01			15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
2	LIGHTING OUTLET	14	567	2.47			15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
3	LIGHTING OUTLET	14	567		2.47		15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
4	LIGHTING OUTLET	15	267		1.16		15	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
5	CONVENIENCE OUTLET	3	540			2.35	20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
6	CONVENIENCE OUTLET	8	1440			6.26	20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
7	CONVENIENCE OUTLET	8	1440	6.26			20	100	2	2 - 3.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	3/4" ø PVC
8	SPARE	1	500		2.17		20	100	2				
9	SPARE	1	500			2.17	20	100	2				
10	SPARE	1	500	2.17			20	100	2				
11	SPARE	1	500		2.17		20	100	2				
12	SPARE	1	500			2.17	20	100	2				
COMPUTATION													
TOTAL CONNECTED LOADS PER PHASE (A)				11.91	7.97	12.96	Phase Multiplier			1.732	Voltage (V)		230
TOTAL LOAD CURRENT (A)				22.44									
DEMAND FACTOR APPLICATION				80%									
DEMAND LOAD CURRENT (A)				17.95			30	100	3	3 - 5.5 mm ²	THHN/THWN-2	1 - 3.5 mm ²	1" ø EMT
			ENCLOSURE			NEMA 1		MOUNTING		WALL MOUNTED			



TARLAC STATE UNIVERSITY
Facilities Development and Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

ENGR. MISAEL REIGH MIEL V. CABANSAG
ELECTRICAL ENGINEER, OFDM-MIU

CHECKED BY:

ATTY. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

ATTY. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
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PANEL BOARD FROM		PPA-4 DP-4		LOCATION		ELECTRICAL ROOM (FOURTH FLOOR)	
CIRCUIT NUMBER		DESCRIPTION		NO. OF OUTLET		SYSTEM VOLTAGE	

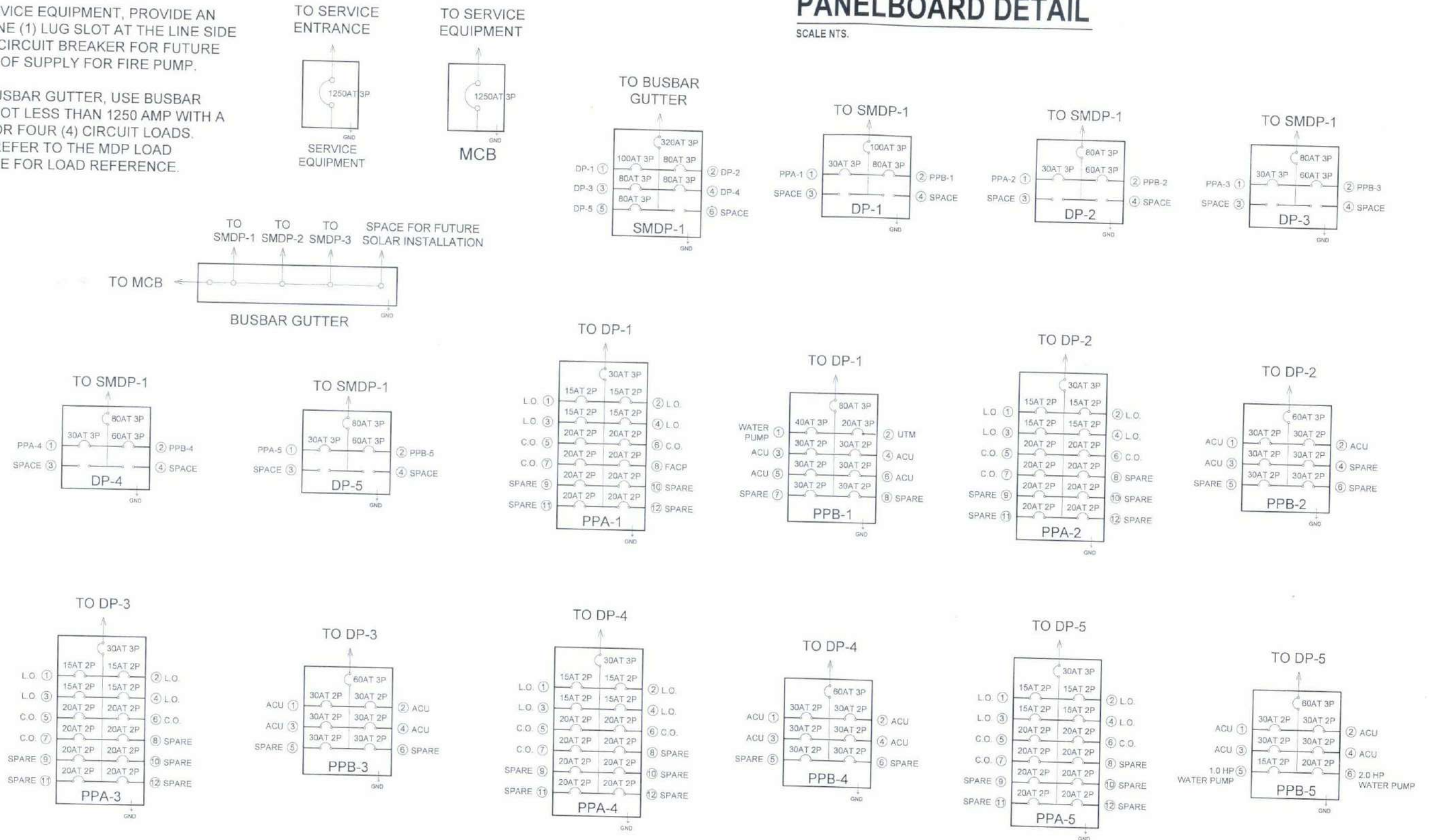
NOTES:

1. AT SERVICE EQUIPMENT, PROVIDE AN EXTRA ONE (1) LUG SLOT AT THE LINE SIDE OF MAIN CIRCUIT BREAKER FOR FUTURE TAPPING OF SUPPLY FOR FIRE PUMP.

2. FOR BUSBAR GUTTER, USE BUSBAR RATING NOT LESS THAN 1250 AMP WITH A SLOTS FOR FOUR (4) CIRCUIT LOADS. PLEASE REFER TO THE MDP LOAD SCHEDULE FOR LOAD REFERENCE.

PANELBOARD DETAIL

SCALE NTS.



SERVICE DROP TO MDP:
EFF. Z AT 85% PF: 0.043
MDP TO SMDP-1:
EFF. Z AT 85% PF: 0.049
SMDP-1 TO DP-5:
EFF. Z AT 85% PF: 0.29
DP-5 TO FARTHEST MOTOR LOAD: VD = (2 X 14.5 X 20 X 1.1)/305 = 2.09 V
EFF. Z AT 85% PF: 1.1

$$VD = (1.732 \times 1076.37 \times 25 \times 0.043) / (3 \times 305) = 2.19 \text{ V}$$

$$VD = (1.732 \times 270.62 \times 4 \times 0.049) / 305 = 0.30 \text{ V}$$

$$VD = (1.732 \times 56.68 \times 16 \times 0.29) / 305 = 1.49 \text{ V}$$

$$\text{TOTAL \%VD} = (2.19 + 0.30 + 1.49 + 2.09) / 230 \times 100 = 2.64\%$$

VOLTAGE DROP CALCULATION

FOR LUMP LOAD SMDP-2

$$\text{Sactual} = 275.01 \times 0.7496 = 206.15 \text{ kVA}$$

$$\text{Zsmdp-2} = 0.278 \times 501 / 206.15 = 0.6756 \text{ p.u.}$$

FOR LUMP LOAD SMDP-3

$$\text{Sactual} = 129.04 \times 0.6066 = 78.2757 \text{ kVA}$$

$$\text{Zsmdp-3} = 0.278 \times 501 / 78.2757 = 1.7793 \text{ p.u.}$$

FOR LUMP LOAD PPB-1

$$\text{Sactual} = 22.39 \times 0.866 = 19.3897 \text{ kVA}$$

$$\text{Zppb-1} = 0.278 \times 501 / 19.3897 = 7.1831 \text{ p.u.}$$

FOR LUMP LOAD DP-2, DP-3, DP-4

$$\text{Sactual} = 23.89 \times 0.5583 = 13.3378 \text{ kVA}$$

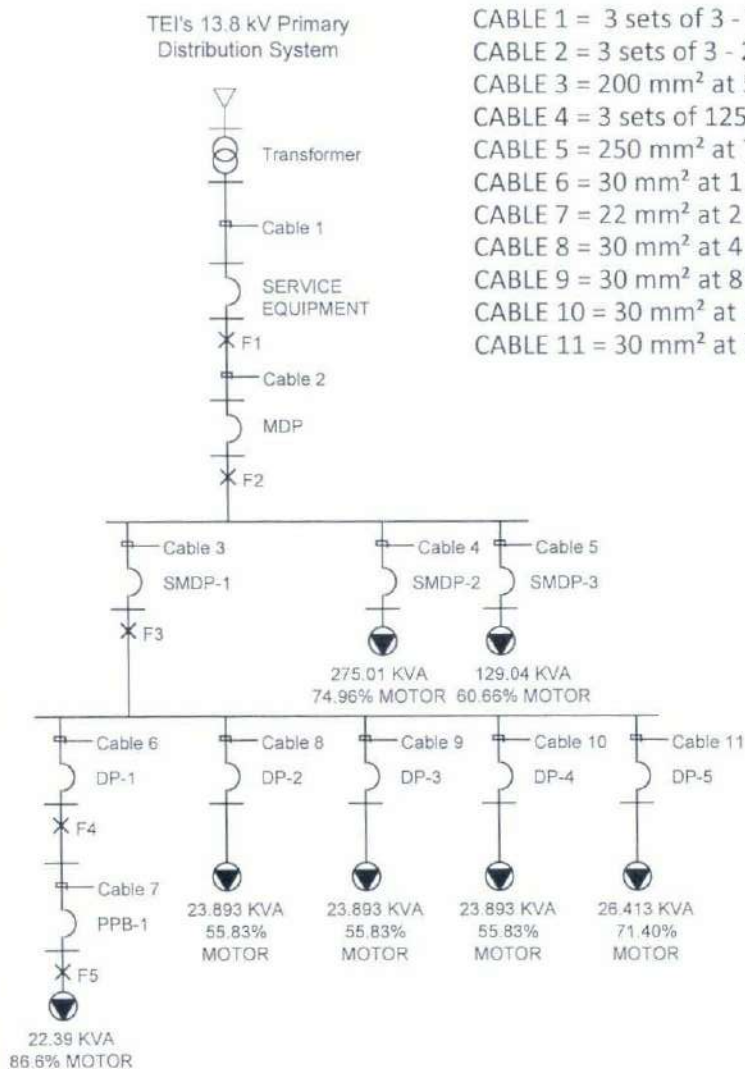
$$\text{Zdp-2} = \text{Zdp-3} = \text{Zdp-4} = 0.278 \times 501 / 13.3378 = 10.4424 \text{ p.u.}$$

FOR LUMP LOAD DP-5

$$\text{Sactual} = 26.413 \times 0.714 = 18.8589 \text{ VA}$$

$$\text{Zdp-5} = 0.278 \times 501 / 18.8589 = 7.3853 \text{ p.u.}$$

SINGLE-LINE DIAGRAM



SHORT CIRCUIT LEVEL FOR UTILITY IS ASSUMED AS 1000 MVA

TRANSFORMER = 3 x 167 kVA 1Ø, 230 V, 60 Hz, 5% IMPEDANCE

CABLE 1 = 3 sets of 3 - 250 mm² at 3 m, 0.00016 ohms
CABLE 2 = 3 sets of 3 - 250 mm² at 42 m, 0.00218 ohms
CABLE 3 = 200 mm² at 5 m, 0.00085 ohms
CABLE 4 = 3 sets of 125 mm² at 36 m, 0.00261 ohms
CABLE 5 = 250 mm² at 72 m, 0.0112 ohms
CABLE 6 = 30 mm² at 1 m, 0.00064 ohms
CABLE 7 = 22 mm² at 2 m, 0.00206 ohms
CABLE 8 = 30 mm² at 4 m, 0.00256 ohms
CABLE 9 = 30 mm² at 8 m, 0.00512 ohms
CABLE 10 = 30 mm² at 12 m, 0.00768 ohms
CABLE 11 = 30 mm² at 16 m, 0.01024 ohms

A. Base Values:

$$\text{kVbase} = 0.230$$

$$\text{MVAbase} = 0.501$$

$$\text{Zbase} = (0.230)^2 / 0.501 = 0.1056 \text{ ohms}$$

$$\text{Ibase} = 0.501 \times 1,000 / (1.732 \times 0.230) = 1257.66 \text{ A}$$

B. Impedance Per Unit Values:

$$\text{Zutility} = 0.501 / 1000 = 0.0005 \text{ p.u.}$$

$$\text{Ztransformer} = 5/100 = 0.05 \text{ p.u.}$$

$$\text{Zcable1} = 0.00016 / 0.1056 = 0.0015 \text{ p.u.}$$

$$\text{Zcable2} = 0.00218 / 0.1056 = 0.0206 \text{ p.u.}$$

$$\text{Zcable3} = 0.00085 / 0.1056 = 0.0081 \text{ p.u.}$$

$$\text{Zcable4} = 0.00261 / 0.1056 = 0.0247 \text{ p.u.}$$

$$\text{Zcable5} = 0.0112 / 0.1056 = 0.1060 \text{ p.u.}$$

$$\text{Zcable6} = 0.00064 / 0.1056 = 0.0061 \text{ p.u.}$$

$$\text{Zcable7} = 0.00206 / 0.1056 = 0.0195 \text{ p.u.}$$

$$\text{Zcable8} = 0.00256 / 0.1056 = 0.0243 \text{ p.u.}$$

$$\text{Zcable9} = 0.00512 / 0.1056 = 0.0485 \text{ p.u.}$$

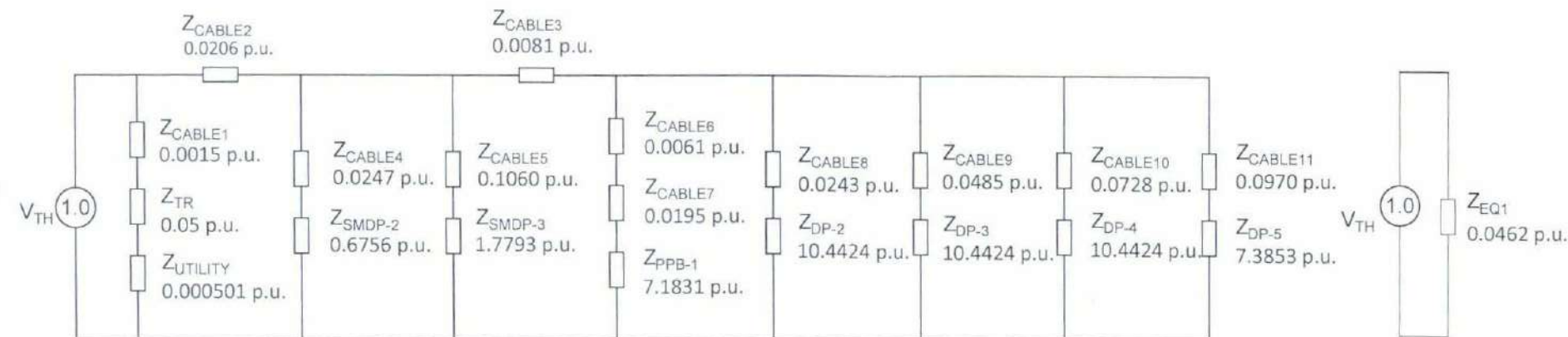
$$\text{Zcable10} = 0.00768 / 0.1056 = 0.0728 \text{ p.u.}$$

$$\text{Zcable11} = 0.01024 / 0.1056 = 0.0970 \text{ p.u.}$$

KAIC RATING SPECIFICATIONS

SPECIFIED MINIMUM VALUES FOR CIRCUIT BREAKERS KAIC RATINGS.

SERVICE EQUIPMENT CIRCUIT BREAKER	35 KAIC
MDP MAIN CIRCUIT BREAKER	35 KAIC
MDP BRANCH CIRCUIT BREAKER	35 KAIC
SMDP-1 MAIN CIRCUIT BREAKER	22 KAIC
SMDP-1 BRANCH CIRCUIT BREAKER	22 KAIC
DP-1 MAIN CIRCUIT BREAKER	22 KAIC
DP-1 BRANCH CIRCUIT BREAKER	22 KAIC
PPA-1, PPA-2, PPA-3, PPA-4, PPA-5 MAIN CIRCUIT BREAKER	14 KAIC
PPA-1, PPA-2, PPA-3, PPA-4, PPA-5 BRANCH CIRCUIT BREAKER	14 KAIC
PPB-1, PPB-2, PPB-3, PPB-4, PPB-5 MAIN CIRCUIT BREAKER	14 KAIC
PPB-1, PPB-2, PPB-3, PPB-4, PPB-5 BRANCH CIRCUIT BREAKER	14 KAIC



FOR FAULT at F1

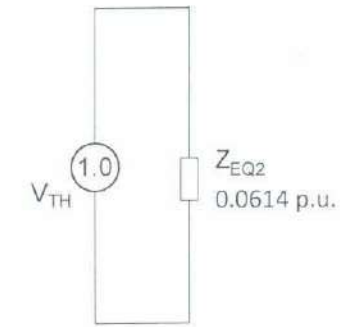
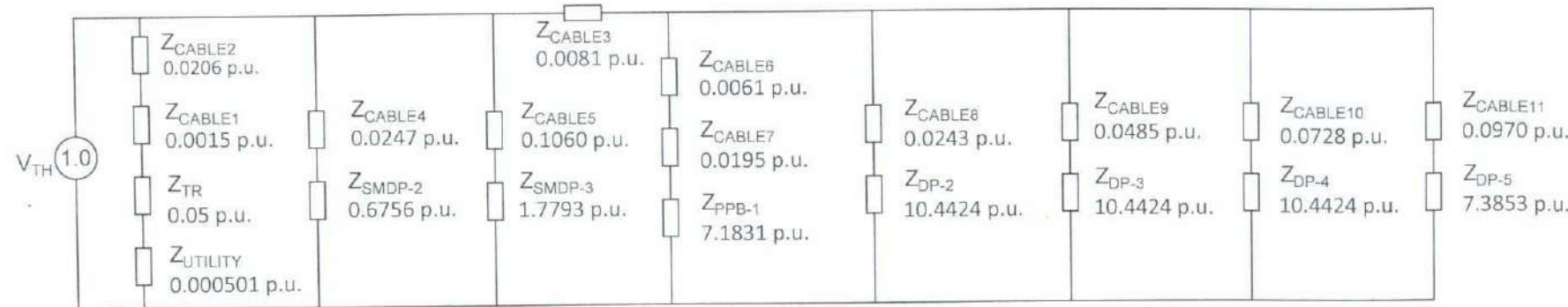
$$\text{Ifault1} = (1/0.0462) \times 1257.66$$

$$= 27.20 \text{ KAIC}$$

SAY ~ 28 KAIC

SHORT CIRCUIT CALCULATION

TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	ENGR. MISAEL REIGH MIEL V. CABANSAG ELECTRICAL ENGINEER, OFDM-MU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. MIRIAM S. BALVEZ DEAN, COE	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	E-14
	PROJECT LOCATION:							DATE: 2025	93 / 119

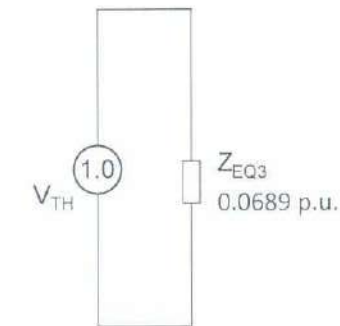
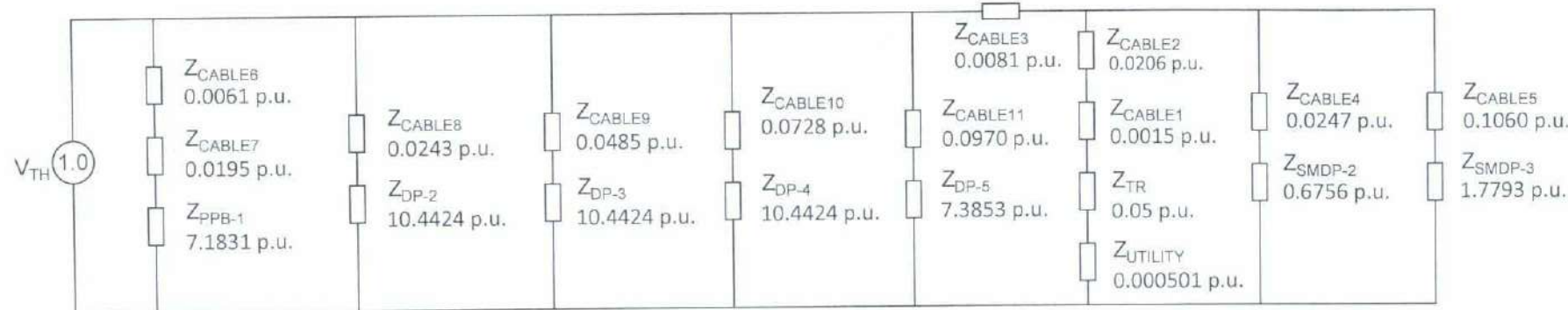


FOR FAULT at F2

$$I_{\text{fault2}} = (1/0.0614) \times 1257.66$$

$$= 20.4865 \text{ KAIC}$$

SAY ~ 21 KAIC

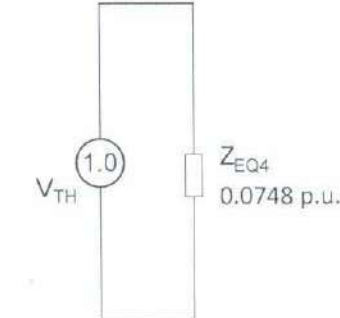
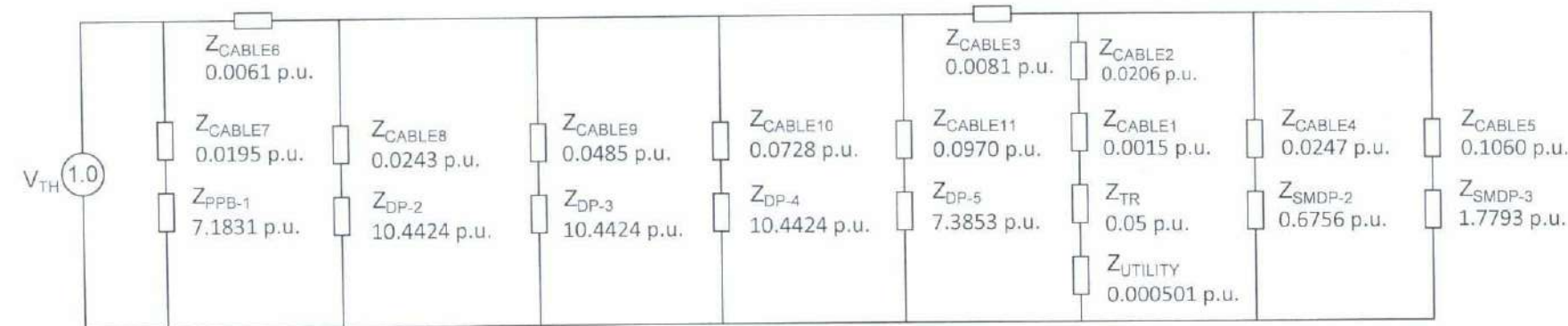


FOR FAULT at F3

$$I_{\text{fault3}} = (1/0.0689) \times 1257.66$$

$$= 18.2649 \text{ KAIC}$$

SAY ~ 19 KAIC

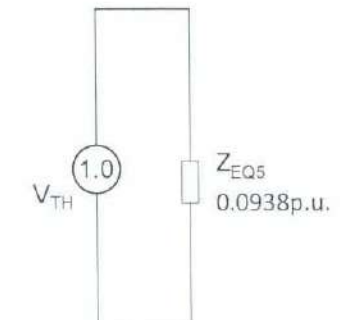
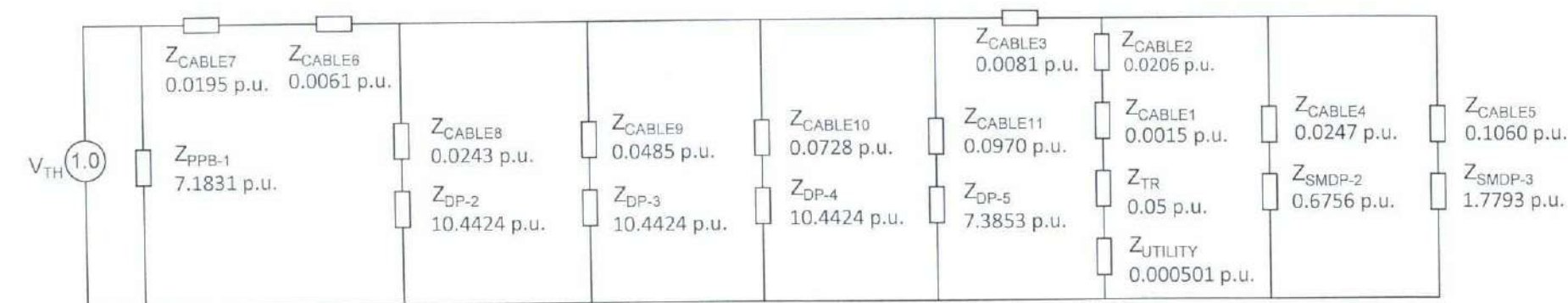


FOR FAULT at F4

$$I_{\text{fault4}} = (1/0.0748) \times 1257.66$$

$$= 16.8142 \text{ KAIC}$$

SAY ~ 17 KAIC



FOR FAULT at F5

$$I_{\text{fault5}} = (1/0.0938) \times 1257.66$$

$$= 13.4046 \text{ KAIC}$$

SAY ~ 14 KAIC



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PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

ENGR. MISAEL REIGH MIEL V. CABANSAG
ELECTRICAL ENGINEER, OFDM-MIU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. ALVAREZ
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RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

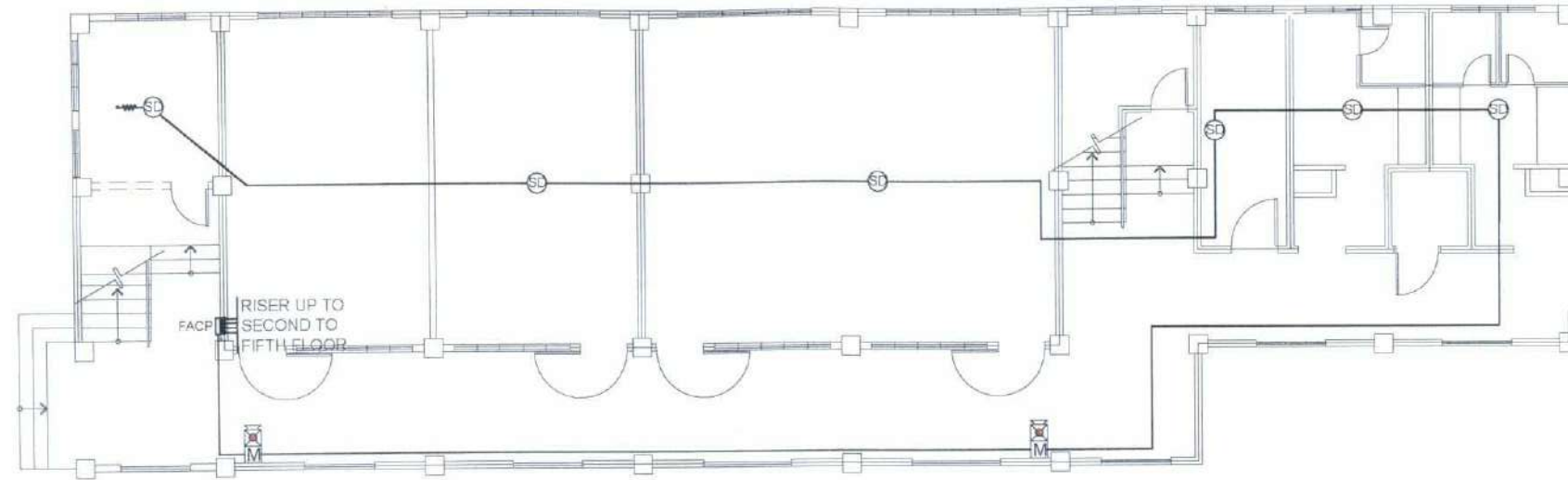
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO:
E-15
PAGE NO:
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NOTES:

1. CONCEAL ALL PIPES WITH ROUGH-IN INSIDE THE WALL, FLOOR AND CEILING.
2. STROBE HORN SHALL BE MOUNTED 300mm BELOW THE CEILING.
3. MANUAL CALL POINT SHALL BE MOUNTED 1.4m ABOVE FINISHED FLOOR LINE.

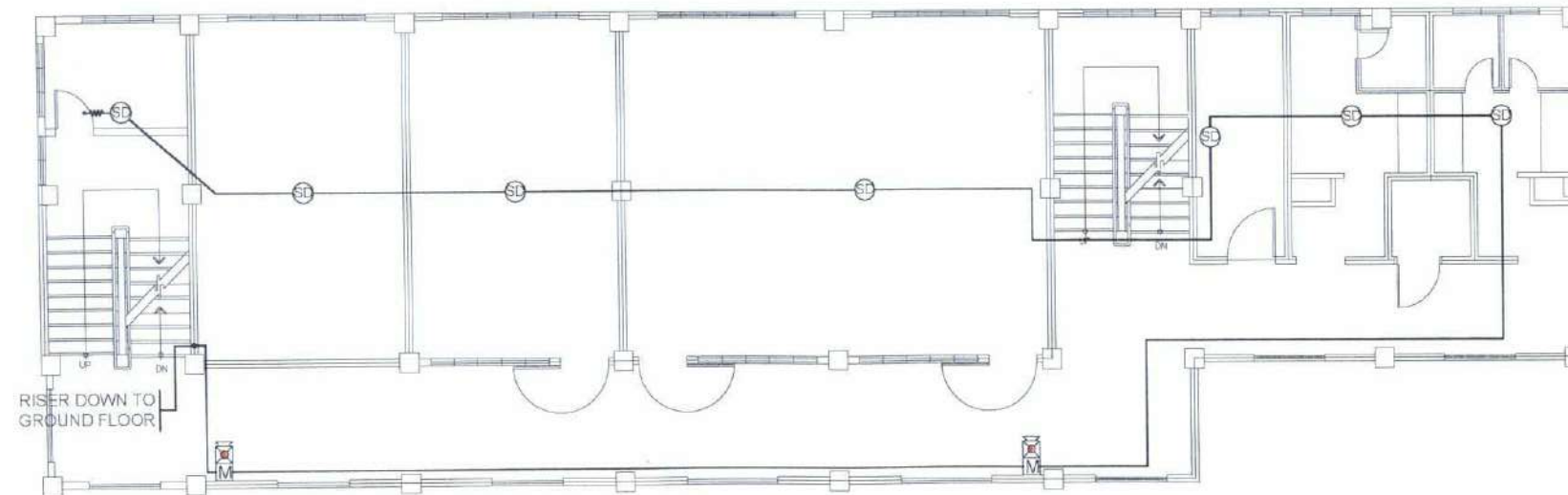


GROUND FLOOR FDAS LAYOUT

SCALE 1:150 MTS.

LEGEND

- SMOKE DETECTOR
- FIRE ALARM CONTROL PANEL
- END OF THE LINE RESISTOR
- STROBE HORN
- MANUAL CALL POINT



SECOND FLOOR FDAS LAYOUT

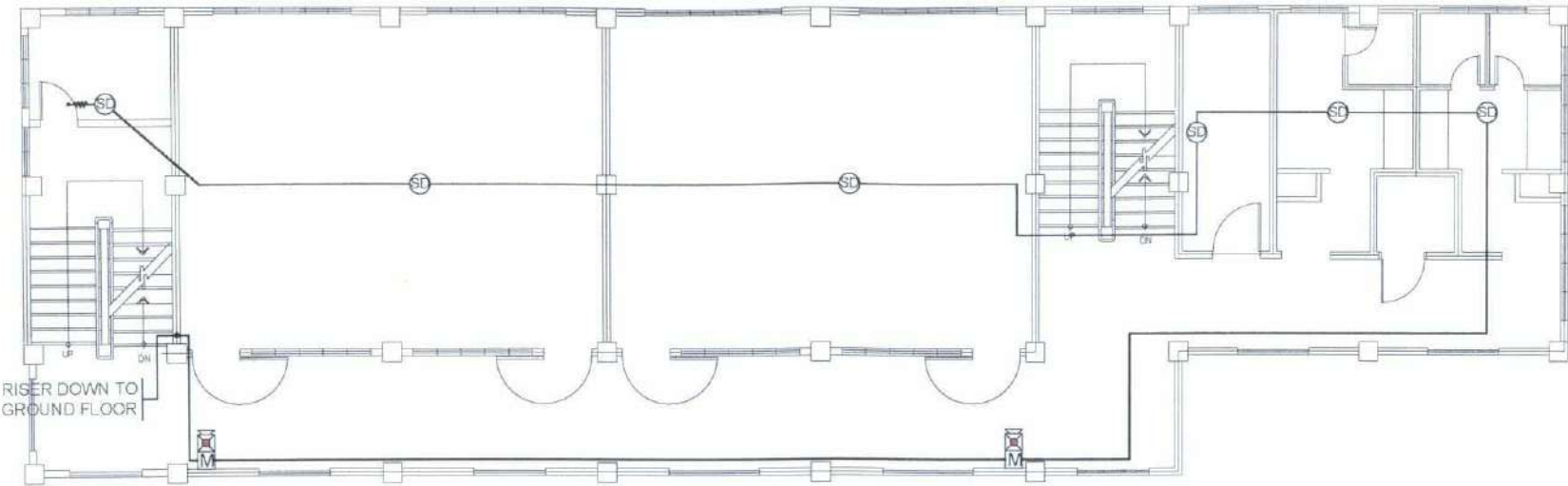
SCALE 1:150 MTS.



TARLAC STATE UNIVERSITY
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Norminio Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY:	ENGR. MISAEL REIGH MIEL V. CABANSAG ELECTRICAL ENGINEER, OFDM-MBU	CHECKED BY:	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY:	AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:	DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL:	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED:	DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS:	AS SHOWN	SHEET NO.:	E-16
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY													DATE: 2025		PAGE NO.:	95 / 119

- NOTES:
- 1. CONCEAL ALL PIPES AND BOXES WITH ROUGH-IN INSIDE THE WALL, FLOOR AND CEILING.
 - 2. STROBE HORN SHALL BE MOUNTED 300mm BELOW THE CEILING.
 - 3. MANUAL CALL POINT SHALL BE MOUNTED 1.4m ABOVE FINISHED FLOOR LINE.

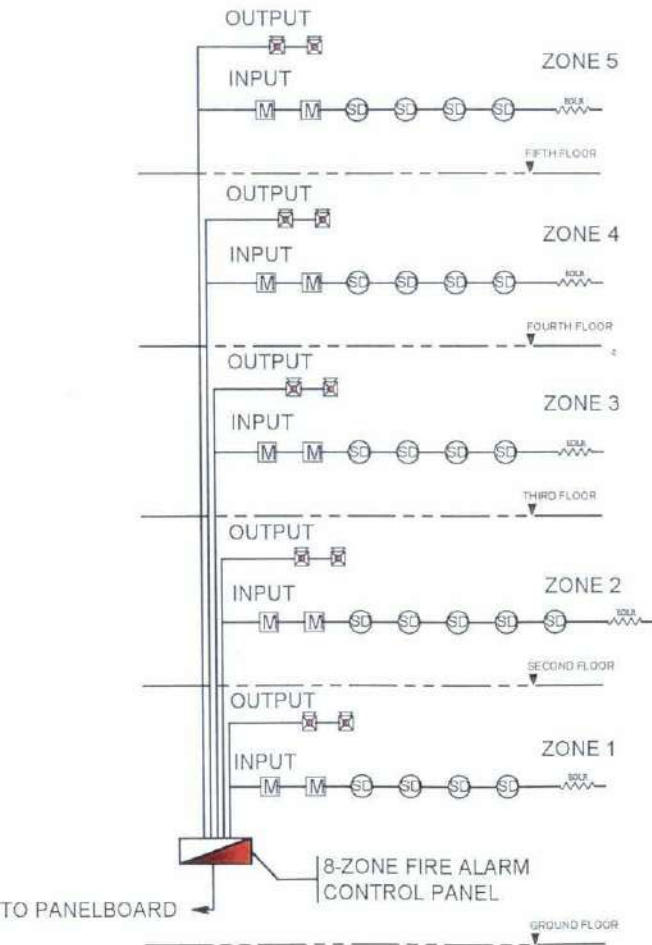


TYPICAL FDAS LAYOUT FOR THIRD TO FIFTH FLOOR

SCALE 1:150 MTS.

LEGEND

- SD SMOKE DETECTOR
- [Symbol] FIRE ALARM CONTROL PANEL
- [Symbol] END OF THE LINE RESISTOR
- [Symbol] STROBE HORN
- M MANUAL CALL POINT



FDAS RISER DIAGRAM



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Parral Road, Tarlac City, Philippines 2100

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
[Signature]
ENGR. MISAEL REIGH MIEL V. CABANSAG
ELECTRICAL ENGINEER, OFDM-MIU

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CERTIFIED BY:
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AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
[Signature]
DR. MIRIAM S. GALVEZ
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ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

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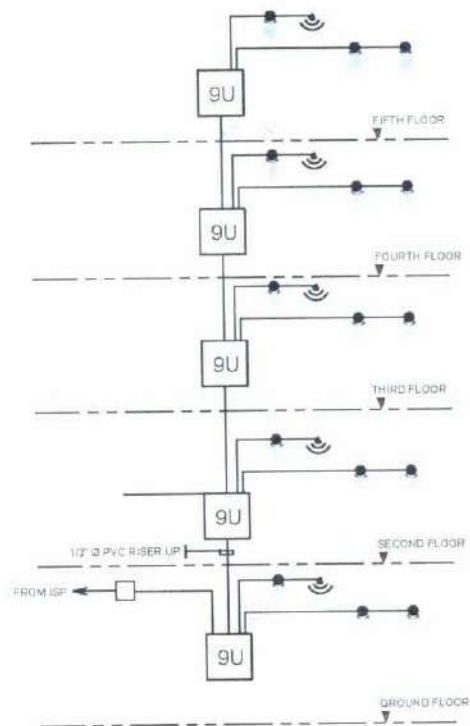
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NOTES:

1. CONCEAL ALL PIPES AND BOXES INSIDE THE WALL, FLOOR, AND CEILING. LAN CABLES ARE INCLUDED IN INSTALLATION OF AUXILIARY LAYOUT.

2. ALL CCTV CAMERAS AND ACCESS POINTS INDICATES ON THE FLOOR PLAN ARE PROPOSED LOCATION FOR FUTURE USE. PROVIDE PULL BOXES ON EACH PROPOSED LOCATIONS.

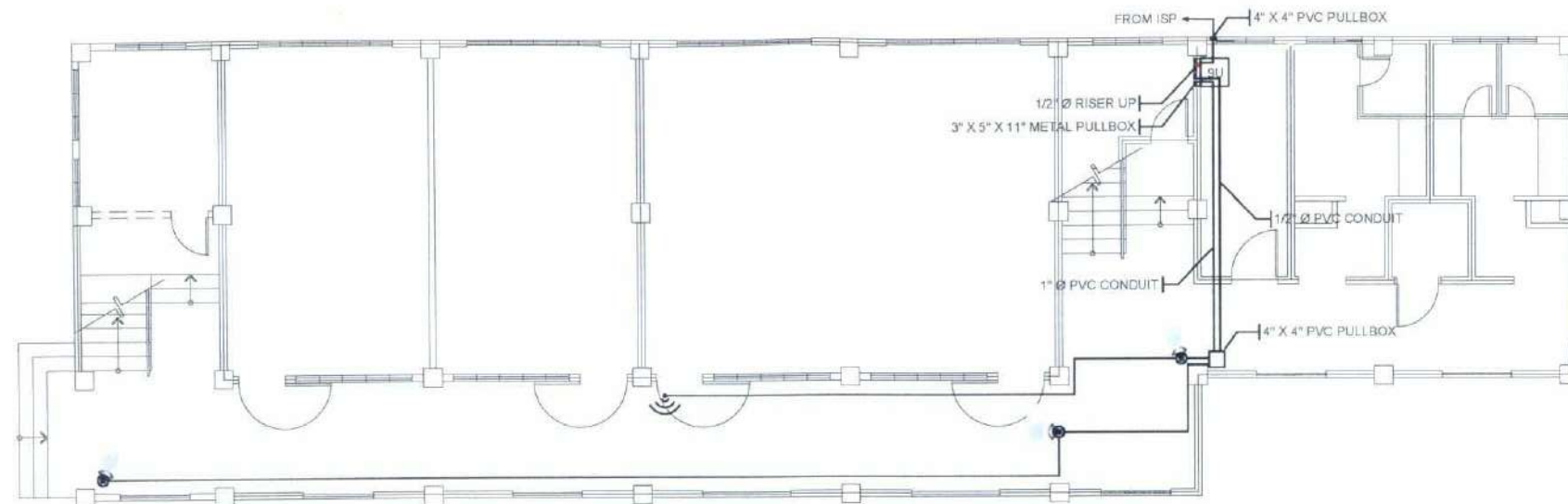
3. PROVIDE TAG/LABEL ON ALL CABLES.



RISER DIAGRAM

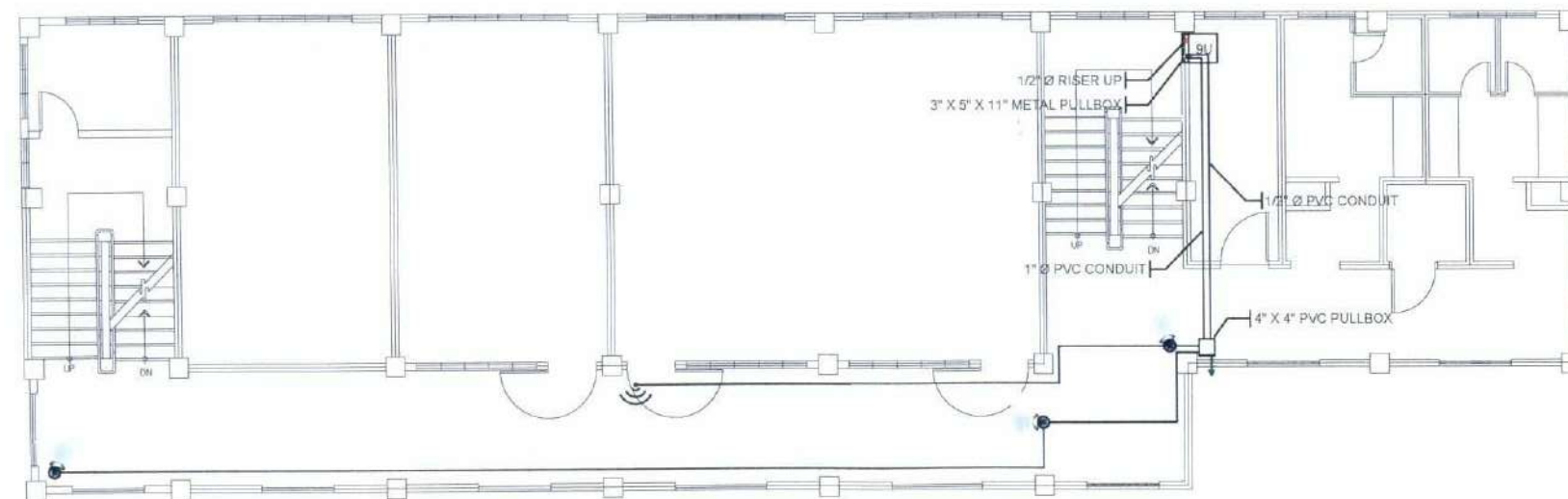
LEGEND

-  CCTV CAMERA
-  ACCESS POINT
-  9U DATA CABINET



GROUND FLOOR AUXILIARY LAYOUT

SCALE 1:150 MTS.

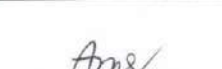
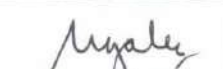


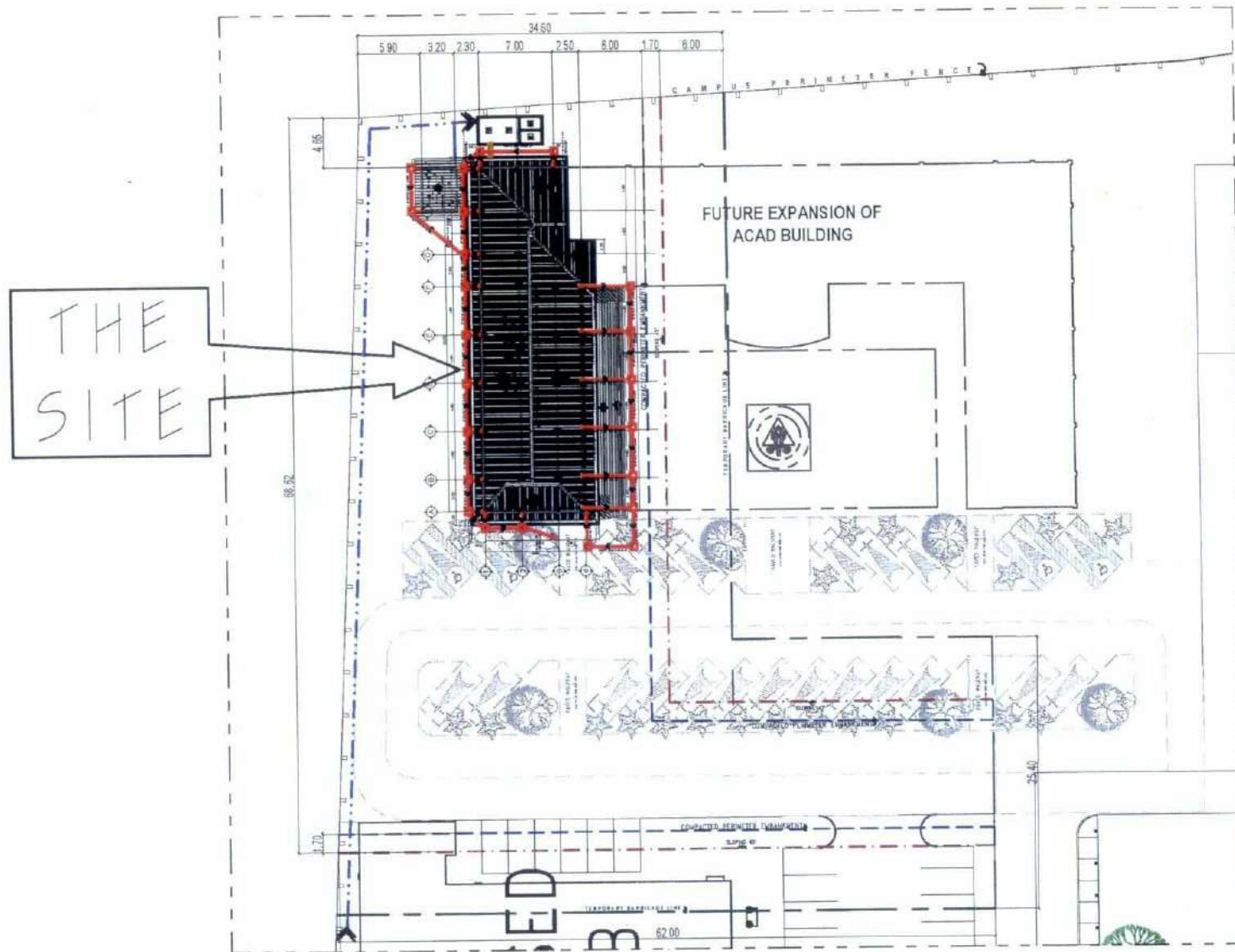
TYPICAL AUXILIARY LAYOUT FOR SECOND TO FIFTH FLOOR

SCALE 1:150 MTS.



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Rommelito Boulevard, Tarlac City, Philippines 3400

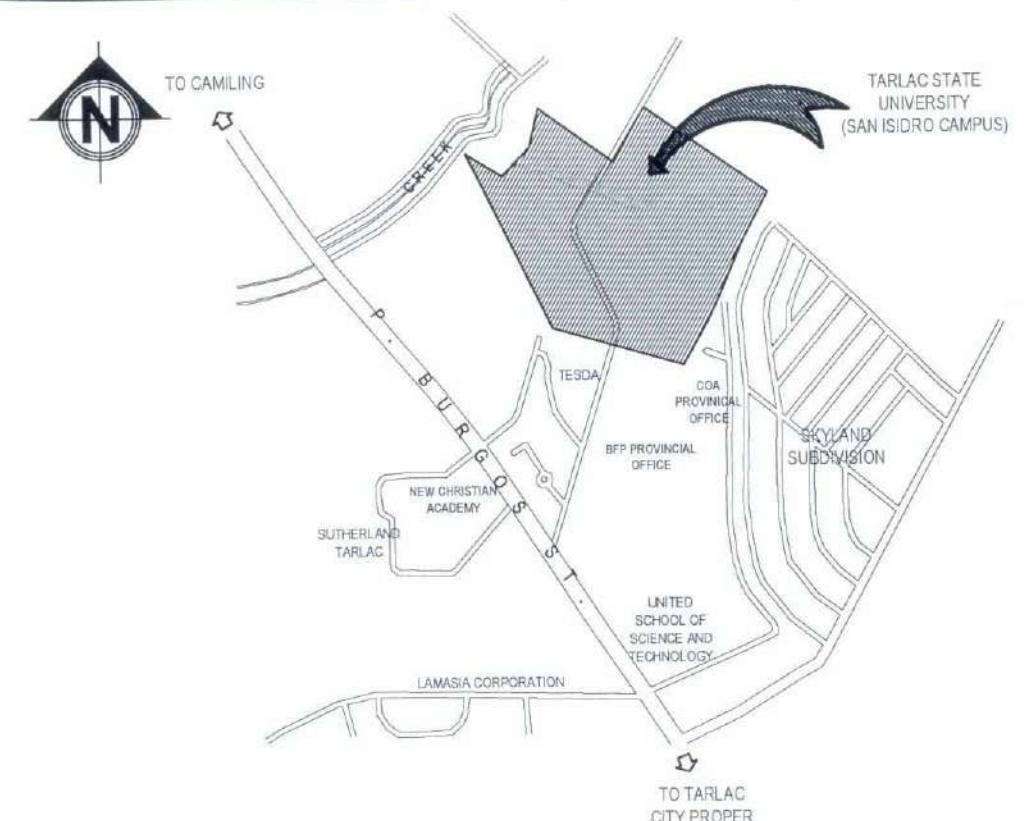
PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY:  ENGR. MIGUEL REIGH MIEL V. CABANSAG ELECTRICAL ENGINEER, OFDM-MBU	CHECKED BY:  AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY:  AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:  DR. MIRIAM S. BALVEZ DEAN, COE	RECOMMENDING APPROVAL:  ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED:  DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: E-18
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2025	PAGE NO.: 97 / 119



SITE DEVELOPMENT PLAN

1:500 MTS

SP	SOIL PIPE	FD	FLOOR DRAIN	6" Ø PVC S1000 WASTE PIPES	63 MM Ø HDPE PIPE
WP	WASTE PIPE	RD	ROOF DRAIN	4" Ø PVC S1000 SOIL/WASTE PIPES	75 MM Ø PPR PIPE PN20
VP	VENT PIPE	URI	URINAL	3" Ø PVC S1000 WASTE PIPES	63 MM Ø PPR PIPE PN20
SS	SOIL STACK	WC	WATER CLOSET	2" Ø PVC S1000 WASTE PIPES	50 MM Ø PPR PIPE PN20
VS	VENT STACK	LAV	LAVATORY	4" Ø PVC S1000 VENT PIPES	32 MM Ø PPR PIPE PN20
VTW	VENT THRU WALL	GV	GATE VALVE	2" Ø PVC S1000 VENT PIPES	20 MM Ø PPR PIPE PN20
SVTR	STACK VENT THRU ROOF	CV	CHECK VALVE	6" Ø PVC S1000 STORM DRAIN PIPES	
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK	3" Ø PVC S1000 STORM DRAIN PIPES	



VICINITY MAP

SCALE : NTS

GENERAL NOTES

- GRADE OF THE HORIZONTAL PIPING:**
RUN ALL HORIZONTAL PIPING IN PERFECT ALIGNMENT AT THE UNIFORM GRADE OF NOT LESS THAN (2%).
- CHANGES IN DIRECTION:**
ALL CHANGES IN DIRECTION SHALL BE MADE BY THE APPROPRIATE USE OF 45° WYE, LONG SWEEP QUATER BEND, SIXTH, EIGHT, OR SIXTEENTH BENDS, WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL. A SINGLE 1/8 BEND COMBINATION MAY BE USED ON WASTE, LINES, TEES AND CROSSES MAY BE USED ON VENT PIPES.
- PROHIBITED FITTINGS:**
NO DOUBLE TEE BRANCHES SHALL BE USED ON HORIZONTAL SOIL OR WASTE LINES, DRILLING & TRAPPINGS OF HOUSE DRAINS, WASTE OR VENT PIPES AND USE OF SADDLE HUB AND BENDS ARE PROHIBITED.
- SLEEVES:**
PROVIDE THE PIPE SLEEVES AT WALLS, COLUMNS OR SLAB ON SIZED BIGGER THAN THE ACTUAL SIZE OF THE PIPE PASSING THROUGH WALLS OR UNDER SLABS TO PROTECT PIPES FROM BREAKAGE.
- PIPES CLEANOUTS:**
CLEANOUTS ARE REQUIRED EVERY CHANGE IN HORIZONTAL DIRECTION EXCEEDING TWENTY - TWO AND HALF DEGREES (22 1/2°).
- DEAD ENDS AVOIDED:**
IN THE INSTALLATIONS OF PLUMBING SYSTEM DEAD ENDS SHALL BE AVOIDED.
- ALL PLUMBING WORKS:**
ALL PLUMBING WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL PLUMBING CODE, REQUIREMENTS OF THE PLUMBING INSPECTION OFFICE AND PERTINENT PROVISIONS OF THE NATIONAL BUILDING CODE.



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SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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AR. PAULO A. DOCTOR
ARCHITECT/UMP, OFDM-PSU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-PSU

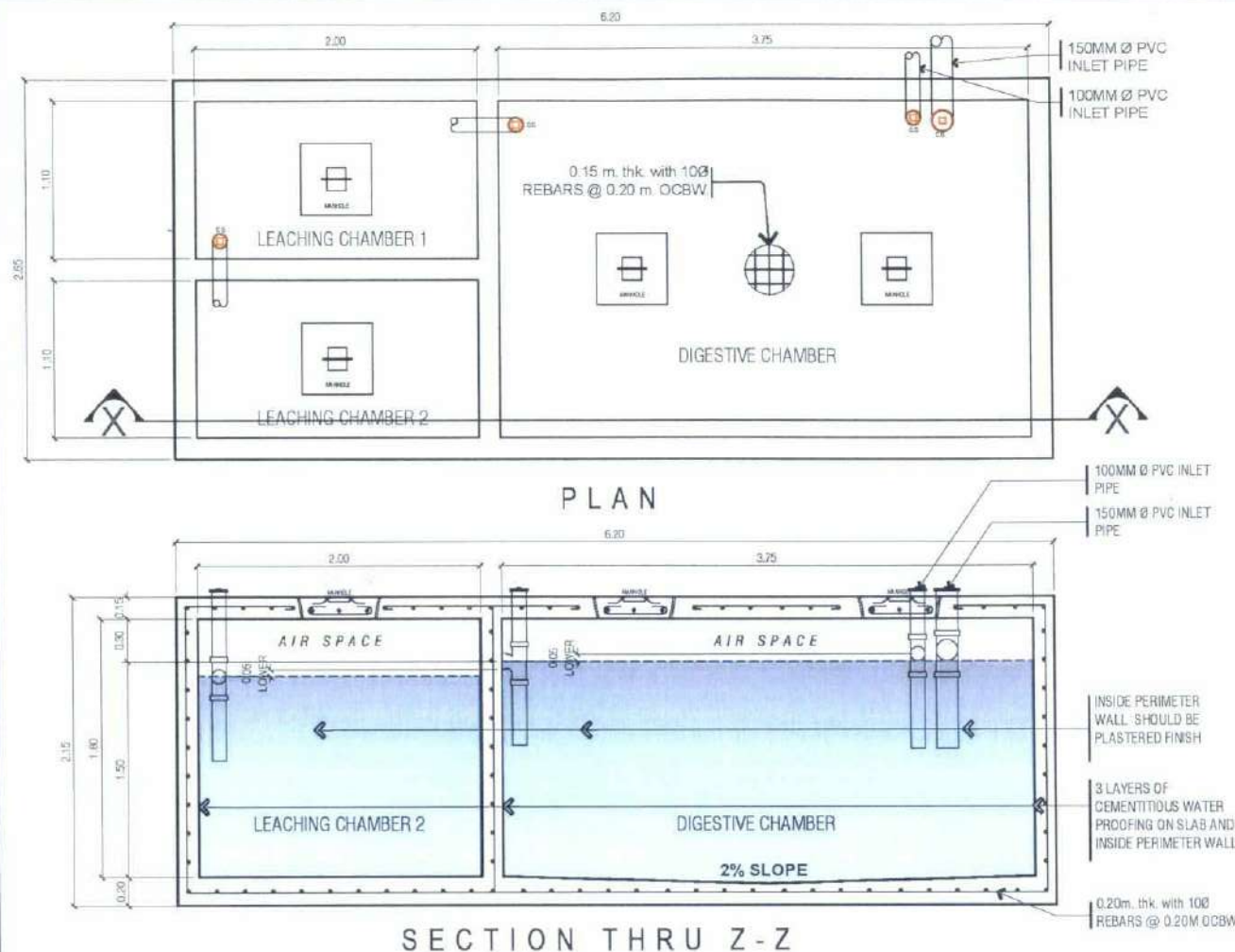
CERTIFIED BY:
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
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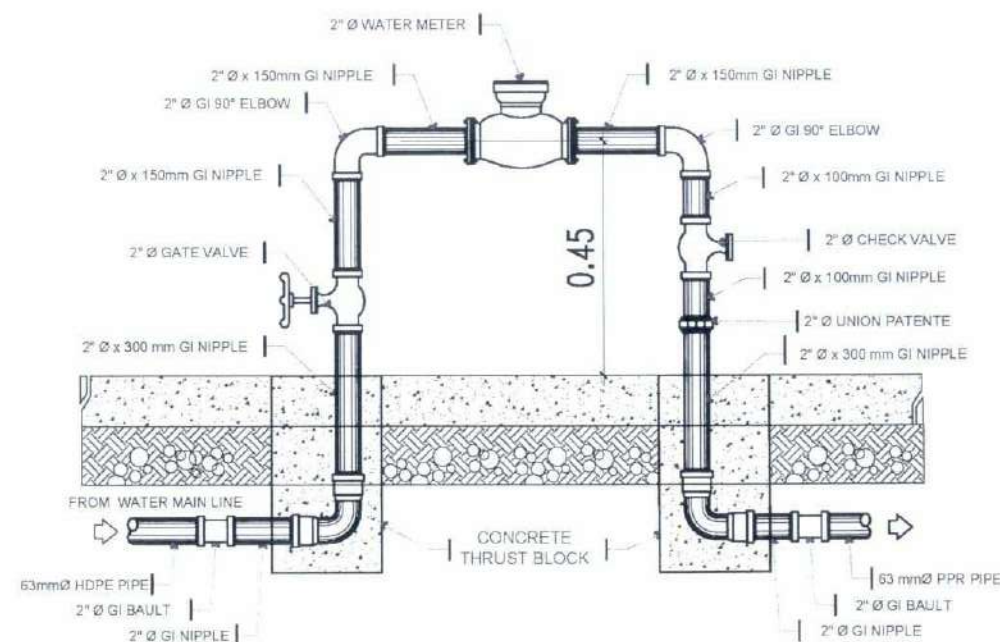
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

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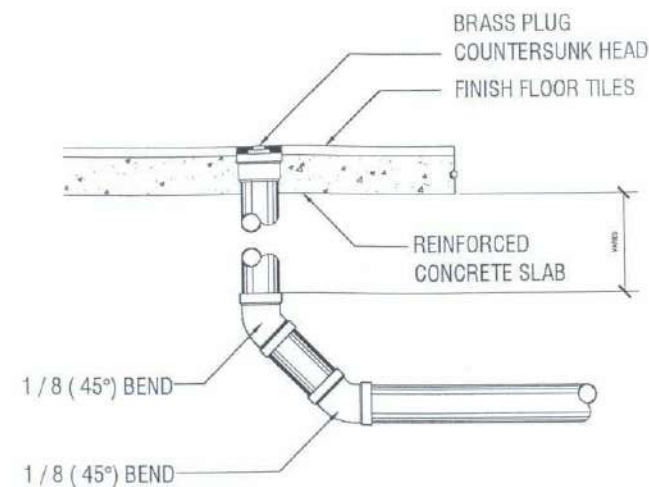
SEPTIC VAULT DETAILS

SCALE 1:50 MTS



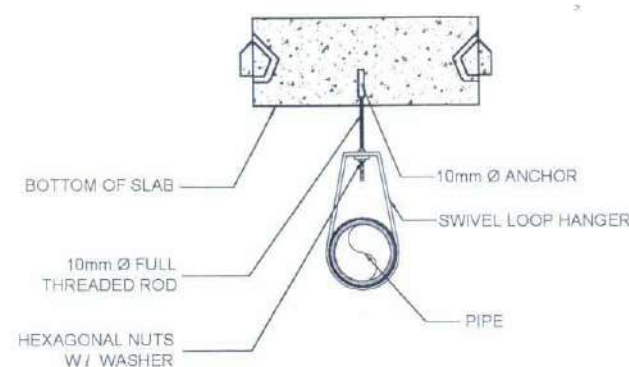
BUILDING SUB-METER DETAIL

NTS



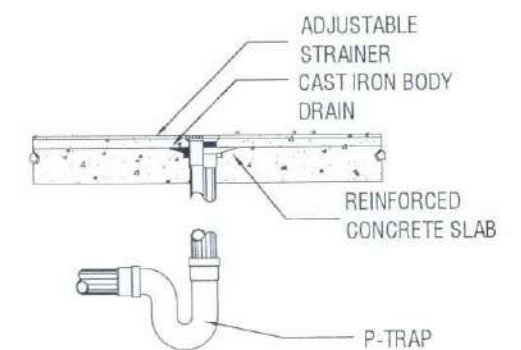
FLOOR CLEAN-OUT DETAIL

NTS



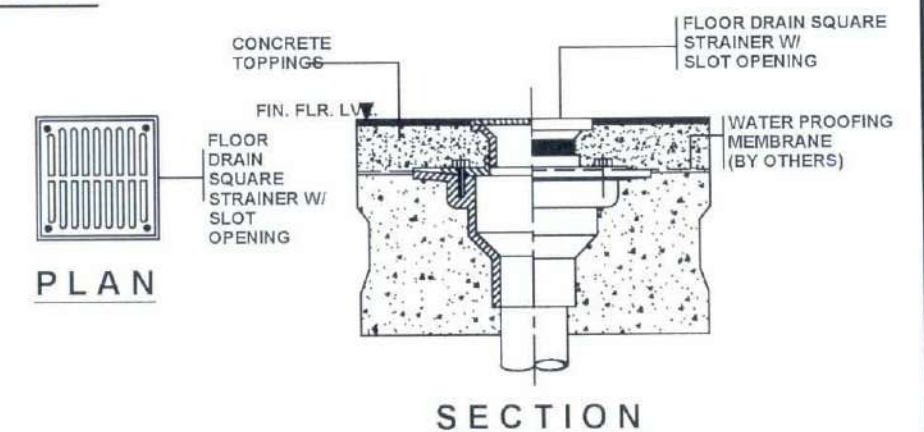
PIPE HANGER DETAIL

NTS



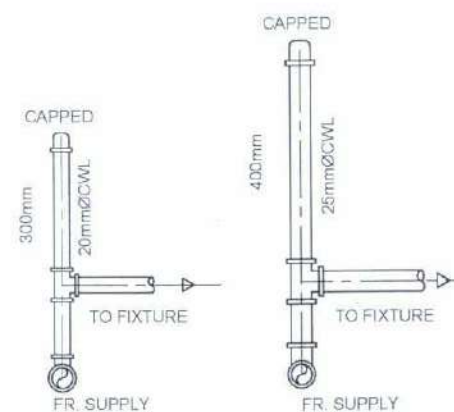
FLOOR DRAIN DETAIL

NTS



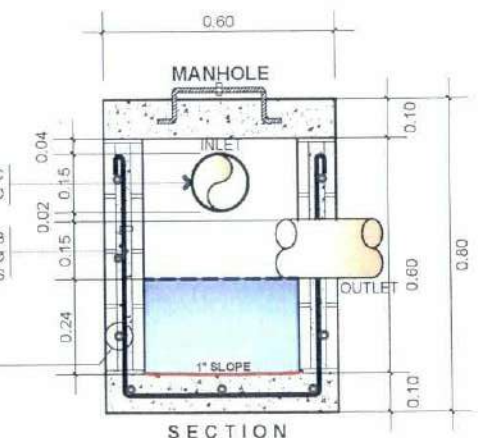
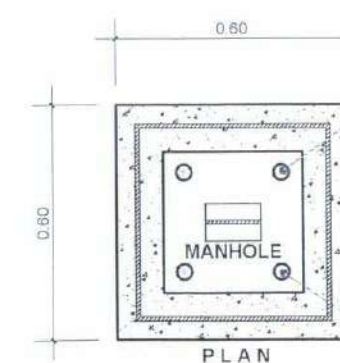
FLOOR DRAIN DETAIL

NTS



TYPICAL AIR CHAMBER DETAIL

NTS



CATCH BASIN DETAIL

NTS



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Roadward, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)

PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
Ar. Paulo A. Doctor
ARCHITECT/MP, OFDM-POU

CHECKED BY:
Ar. Cherry L. Fabianes
HEAD, OFDM-POU

CERTIFIED BY:
Ar. Arlen M. Guieb
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REQUESTING OFFICE:
Dr. Miriam S. Galvez
DEAN, COE

RECOMMENDING APPROVAL:
Atty. Wilmark J. Ramos, DBA
VP FOR ADMINISTRATION

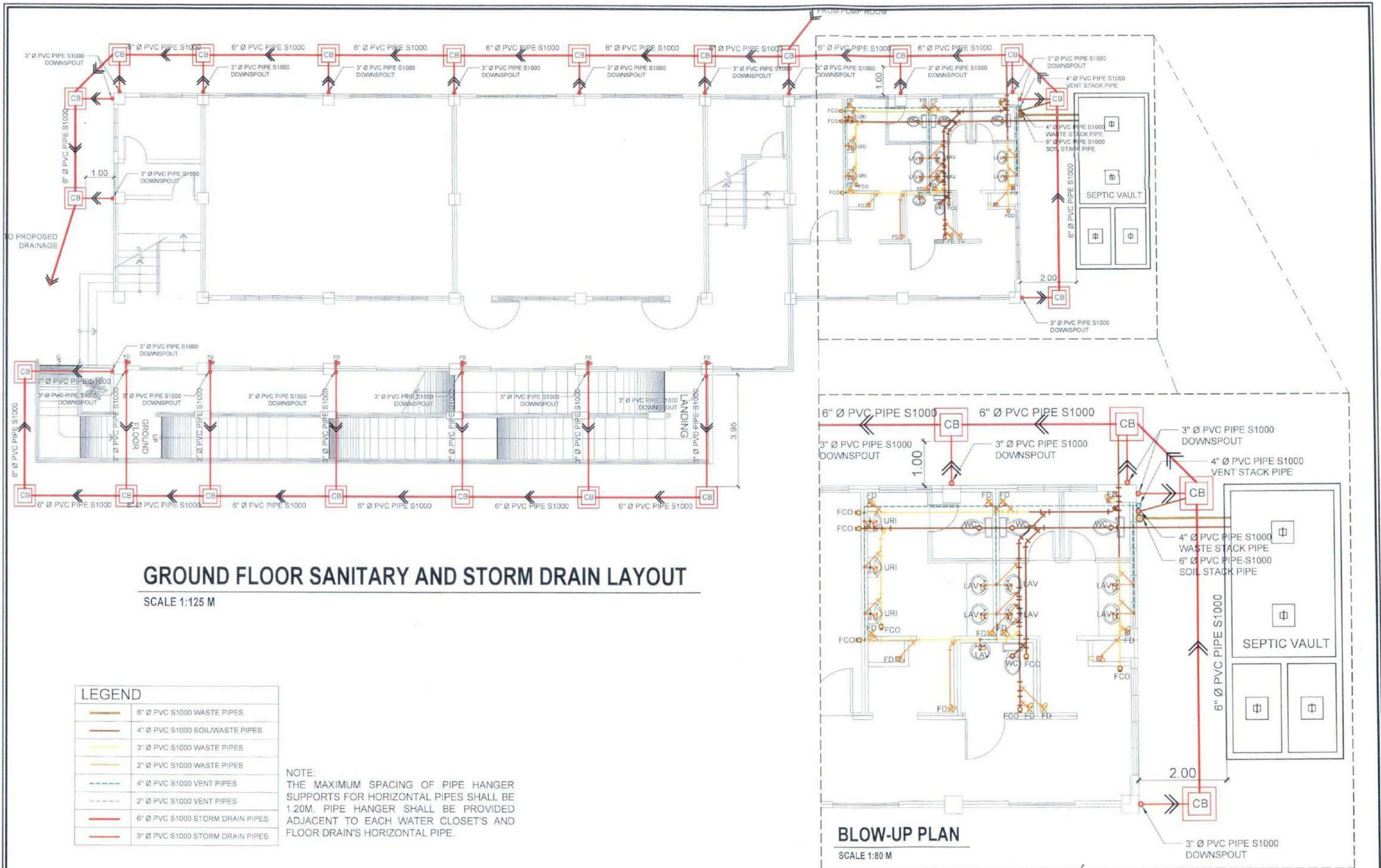
APPROVED:
Dr. Arnold E. Velasco
PRESIDENT

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DATE: 2025

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PAGE NO.:
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TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Rommel Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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HEAD, OFDM-PCU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. GALVEZ
DEAN, COE

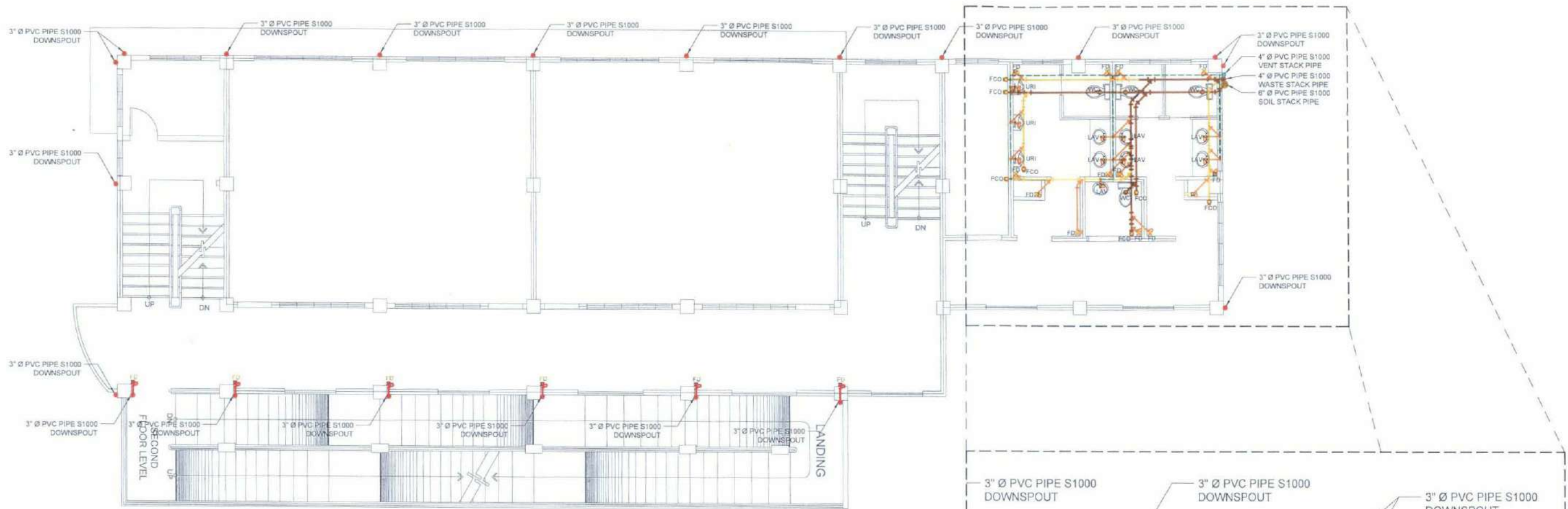
RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025
SHEET NO.:
P-04
PAGE NO.:
101/119



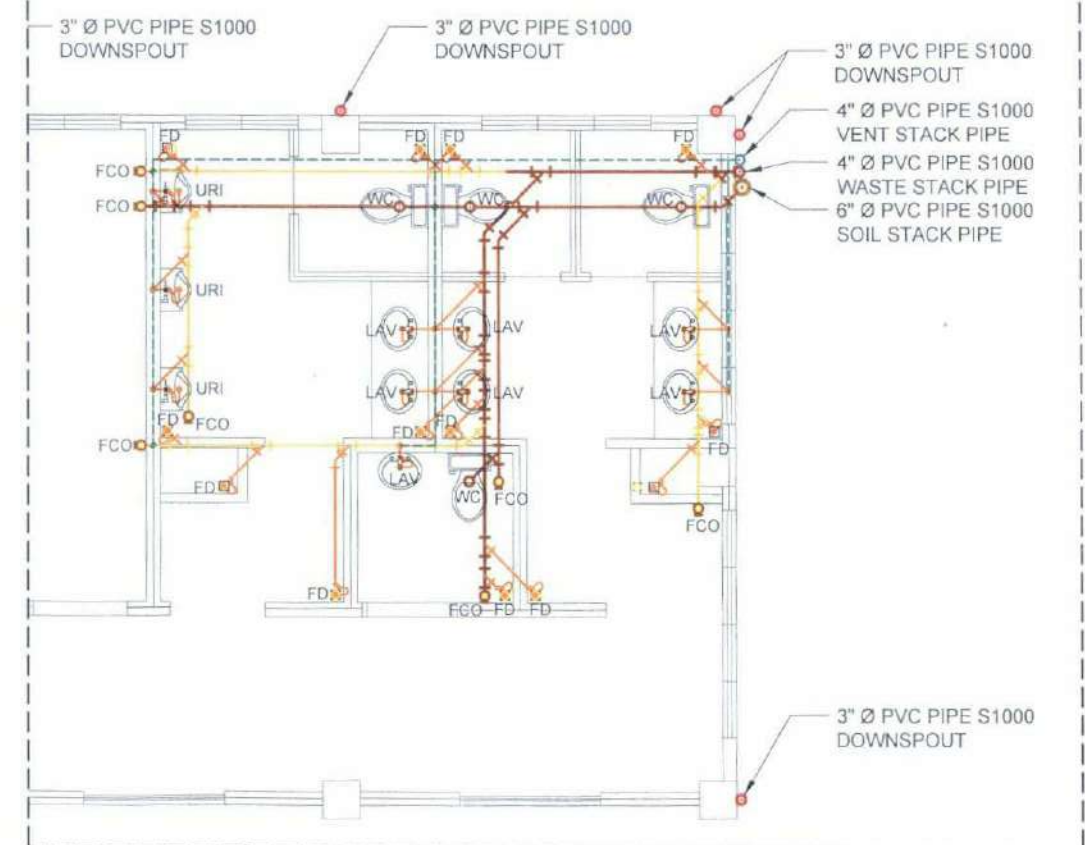
TYPICAL SECOND-FIFTH FLOOR SANITARY AND STORM DRAIN LAYOUT

SCALE 1:125 M

LEGEND

	6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES
	3" Ø PVC S1000 STORM DRAIN PIPES

NOTE:
THE MAXIMUM SPACING OF PIPE HANGER SUPPORTS FOR HORIZONTAL PIPES SHALL BE 1.20M. PIPE HANGER SHALL BE PROVIDED ADJACENT TO EACH WATER CLOSET'S AND FLOOR DRAIN'S HORIZONTAL PIPE.



BLOW-UP PLAN

SCALE 1:80 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Aramin Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
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DEAN, COE

RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

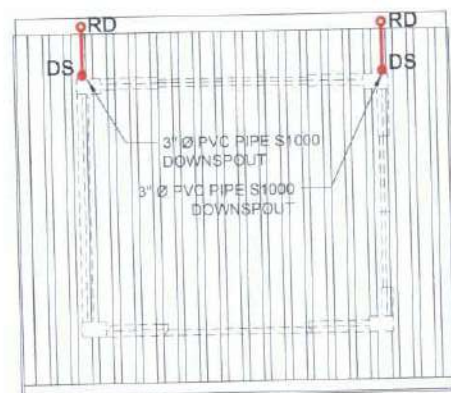
DR. ARNOLD E. VELASCO
PRESIDENT

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DATE: 2025

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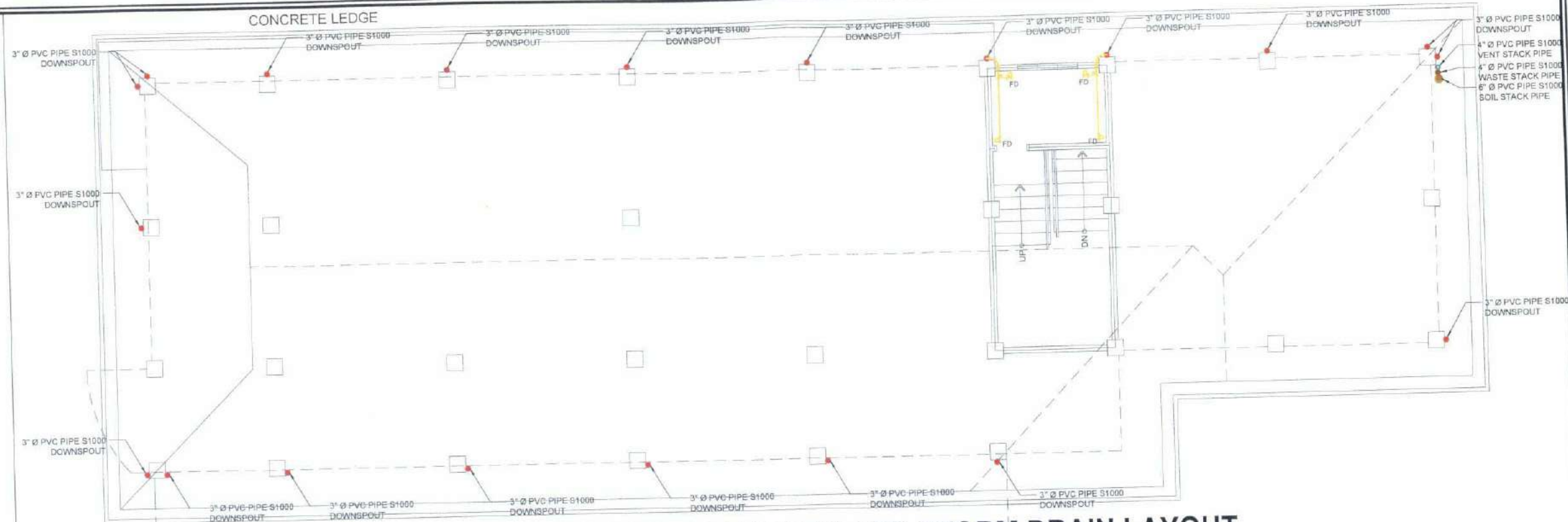
PUMP ROOM STORM DRAIN LAYOUT

SCALE 1:100 M

NOTE:
THE MAXIMUM SPACING OF PIPE HANGER
SUPPORTS FOR HORIZONTAL PIPES SHALL
BE 1.20M. PIPE HANGER SHALL BE
PROVIDED ADJACENT TO EACH WATER
CLOSET'S AND FLOOR DRAIN'S
HORIZONTAL PIPE.

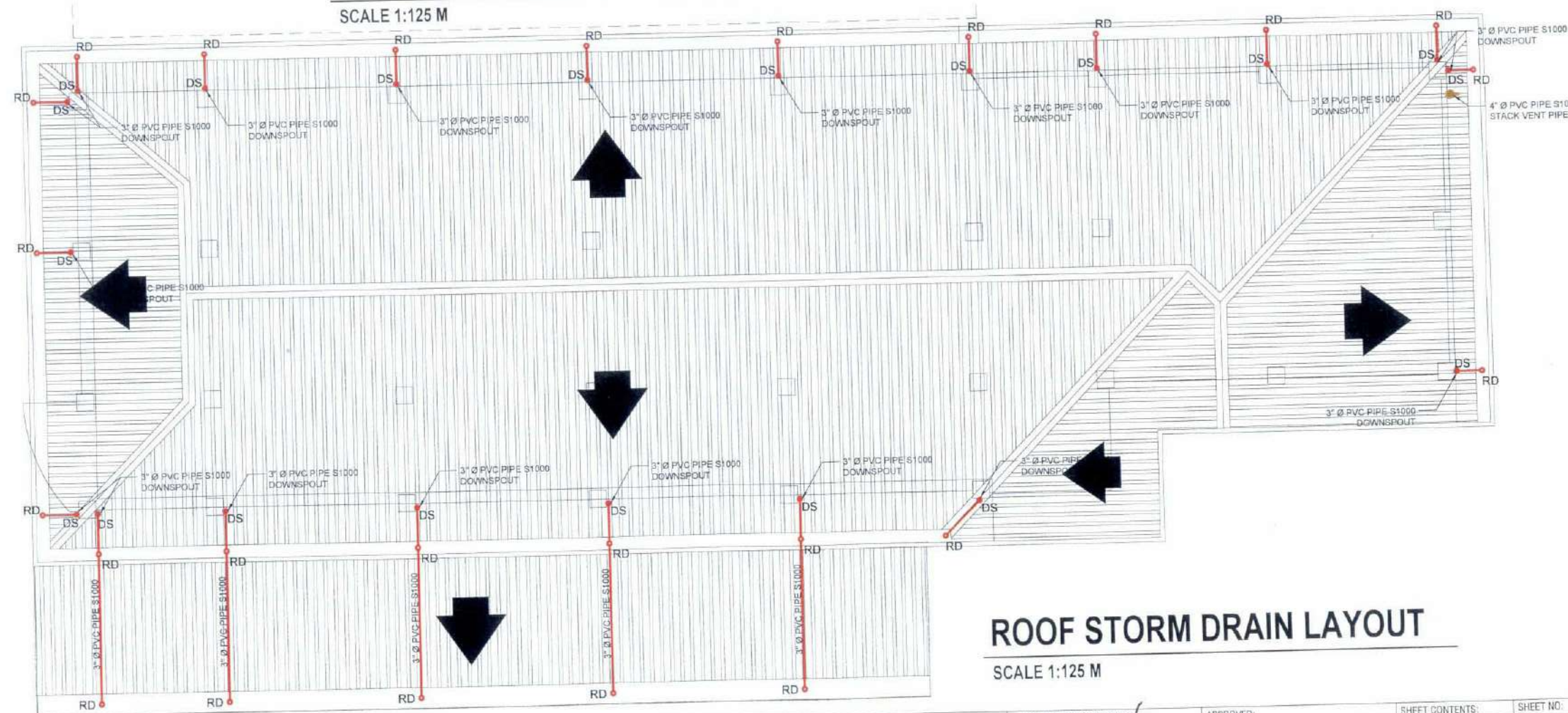
LEGEND

	6" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES
	3" Ø PVC S1000 STORM DRAIN PIPES



WATER TANK ROOM SANITARY AND STORM DRAIN LAYOUT

SCALE 1:125 M



ROOF STORM DRAIN LAYOUT

SCALE 1:125 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Remigio Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

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RECOMMENDING APPROVAL

ATTY. WILMARK J. RAMOS, DBA
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SHEET CONTENTS:

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DATE: 2025

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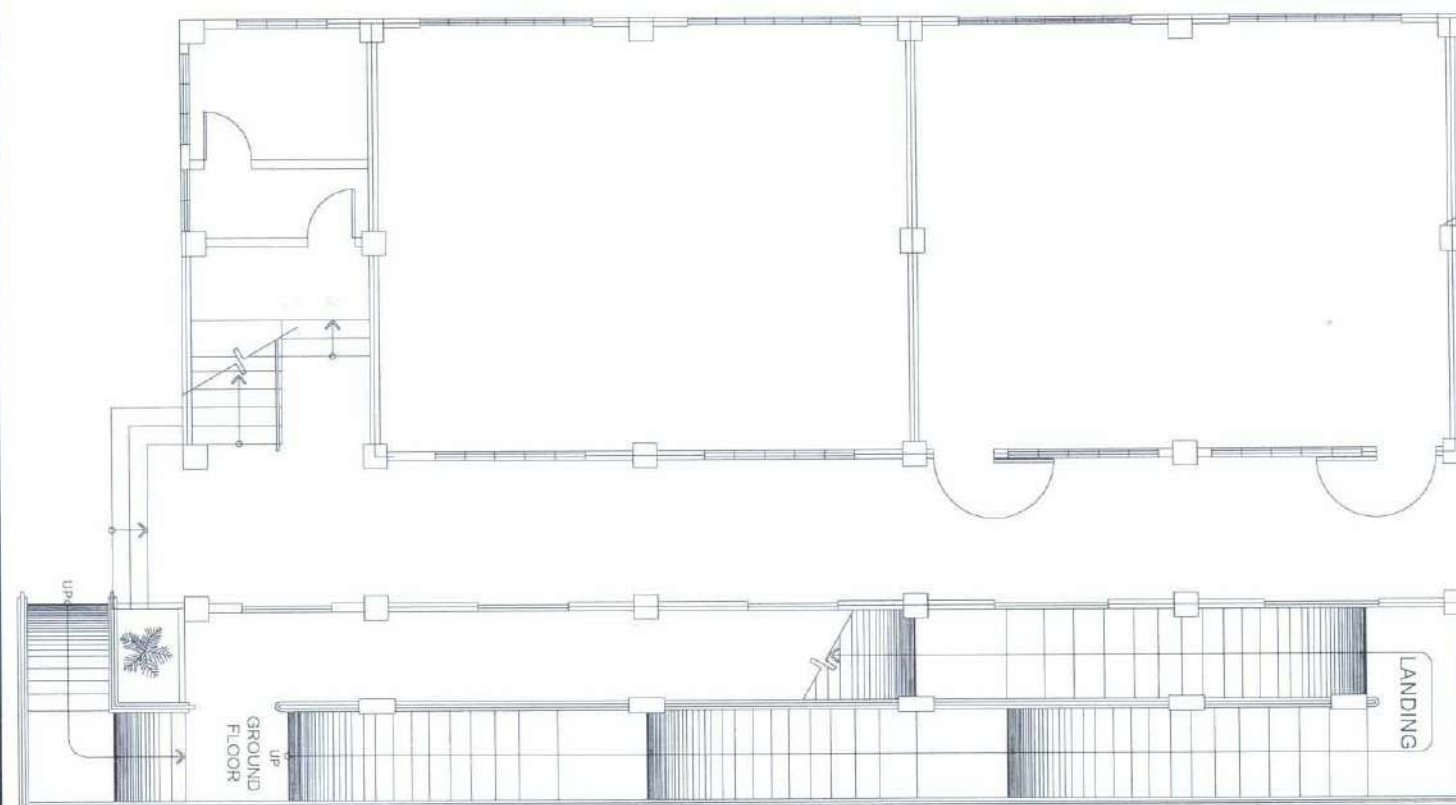
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PUMP NO.	QTY.	PUMP TYPE	LOCATION	CAPACITY	TOTAL DYNAMIC HEAD	MOTOR	POWER			PIPE DIAMETER	
							VOLT	PHASE	HERTZ	SUCTION	DISCHARGE
	1	STAINLESS STEEL HORIZONTAL MULTI-STAGED CENTRIFUGAL PUMP	PUMP ROOM	100 GPM	35.5 M	1 SET 5.0 HP 3500 RPM	230V	3Ø	60HZ	2 1/2" IN	2 1/2" IN

PUMP REQUIREMENTS:

PUMP REQUIREMENTS:
STAINLESS STEEL MULTI-STAGED CENTRIFUGAL PUMP, PRESSURE TRANSMITTER, PRESSURE SWITCH,
PRESSURE GAUGE, FLOAT SWITCH FOR PUMP DRY-RUNNING PREVENTION



GROUND FLOOR WATERLINE LAYOUT

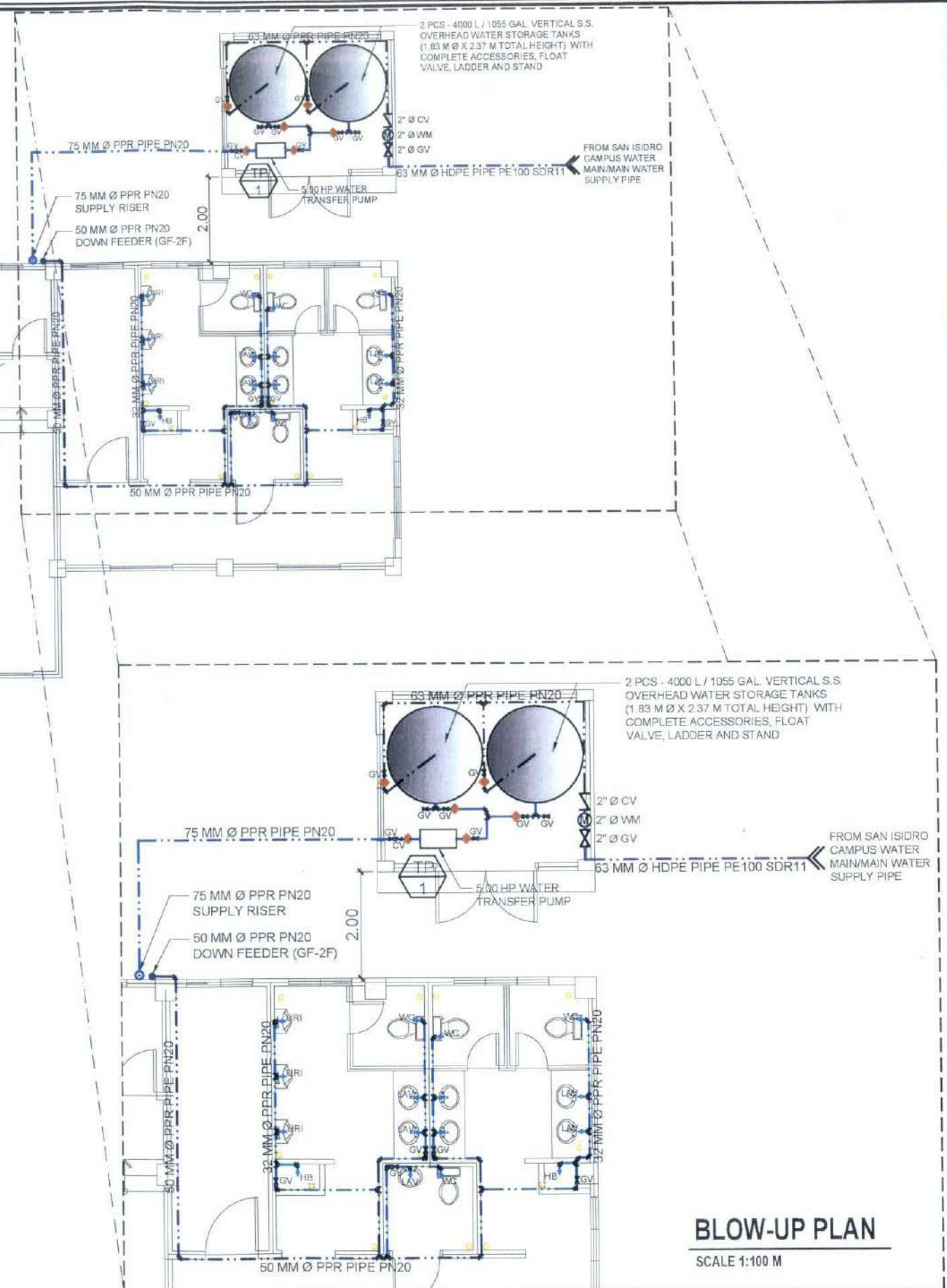
1:125 M

LEGEND		PPR PIPE SIZES		
	63 MM Ø HDPE PIPE	NOMINAL SIZE	OUTSIDE DIAMETER	PN 20 PIPE THICKNESS
	63 MM Ø PPR PIPE PN20	<i>inches</i>	<i>mm</i>	<i>mm</i>
	75 MM Ø PPR PIPE PN20	$\frac{1}{2}$ "	20	3.4
	50 MM Ø PPR PIPE PN20	1"	32	5.4
	32 MM Ø PPR PIPE PN20	$1\frac{1}{2}$ "	50	8.3
	20 MM Ø PPR PIPE PN20	2"	63	10.5
		$2\frac{1}{2}$ "	75	12.5

NOTE:

- ALL FIXTURE SUPPLY PIPES WILL BE 20MM Ø PPR PIPE PN20, EXCEPT FOR THE PWD WATER CLOSET WHICH WILL BE 32 MM Ø PPR PIPE PN20.

- PROVIDE 300MM HIGH 25MM Ø PPR PIPE PN20 AIR CHAMBER WITH END CAP FOR EVERY LAVATORY, KITCHEN SINK, AND HOSE BIBBS.



BLOW-UP PLAN

SCALE 1:100 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

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AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:	
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AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:	
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DR. MIRIAM S. GALVEZ
DEAN, COL

RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

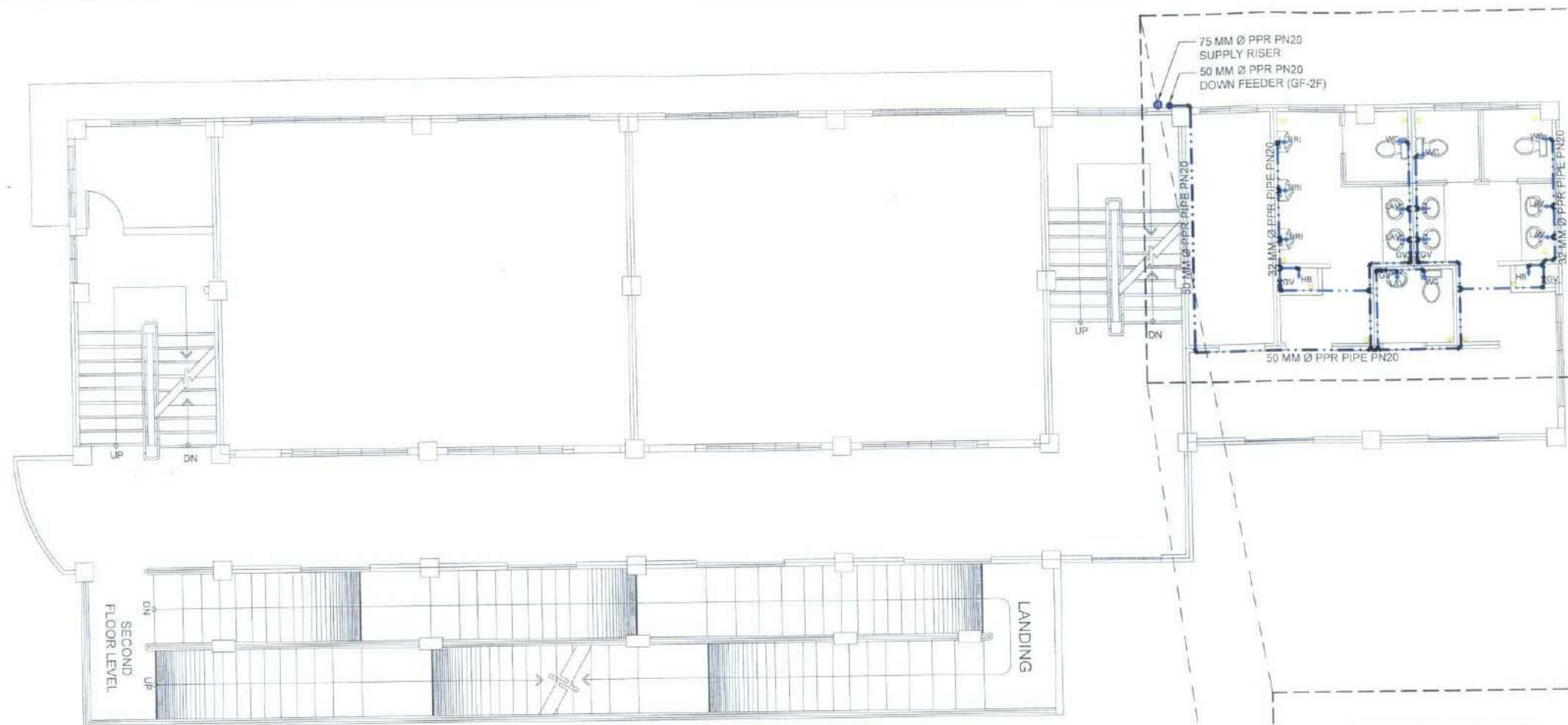
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SECOND FLOOR WATERLINE LAYOUT

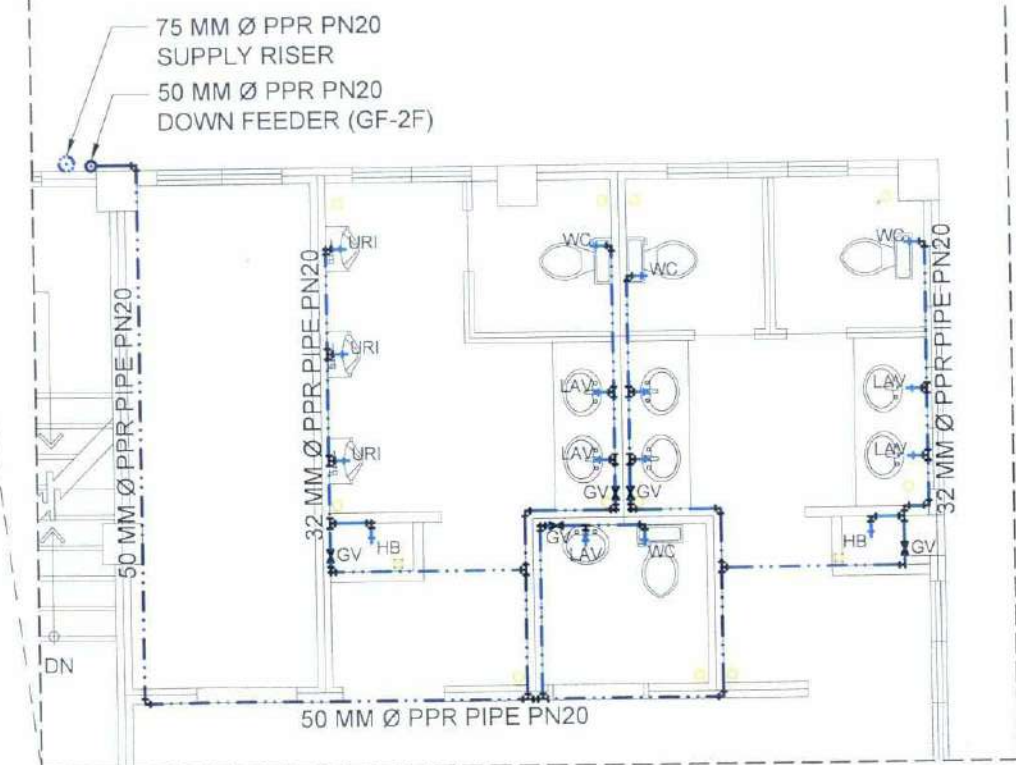
1:125 M

LEGEND		PPR PIPE SIZES		
		NOMINAL SIZE	OUTSIDE DIAMETER	PN 20 PIPE THICKNESS
---	63 MM Ø HDPE PIPE			
---	63 MM Ø PPR PIPE PN20	inches	mm	mm
---	75 MM Ø PPR PIPE PN20	$\frac{1}{2}$ "	20	3.4
---	50 MM Ø PPR PIPE PN20	1"	32	5.4
---	32 MM Ø PPR PIPE PN20	$1\frac{1}{2}$ "	50	8.3
---	20 MM Ø PPR PIPE PN20	2"	63	10.5
---		$2\frac{1}{2}$ "	75	12.5

NOTE:

• ALL FIXTURE SUPPLY PIPES WILL BE 20MM Ø PPR PIPE PN20, EXCEPT FOR THE PWD WATER CLOSET WHICH WILL BE 32 MM Ø PPR PIPE PN20.

• PROVIDE 300MM HIGH 25MM Ø PPR PIPE PN20 AIR CHAMBER WITH END CAP FOR EVERY LAVATORY, KITCHEN SINK, AND HOSE BIBBS.



BLOW-UP PLAN

SCALE 1:75 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romelio Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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AR. ARLEN M. GUIEB
DIRECTOR, OFDM

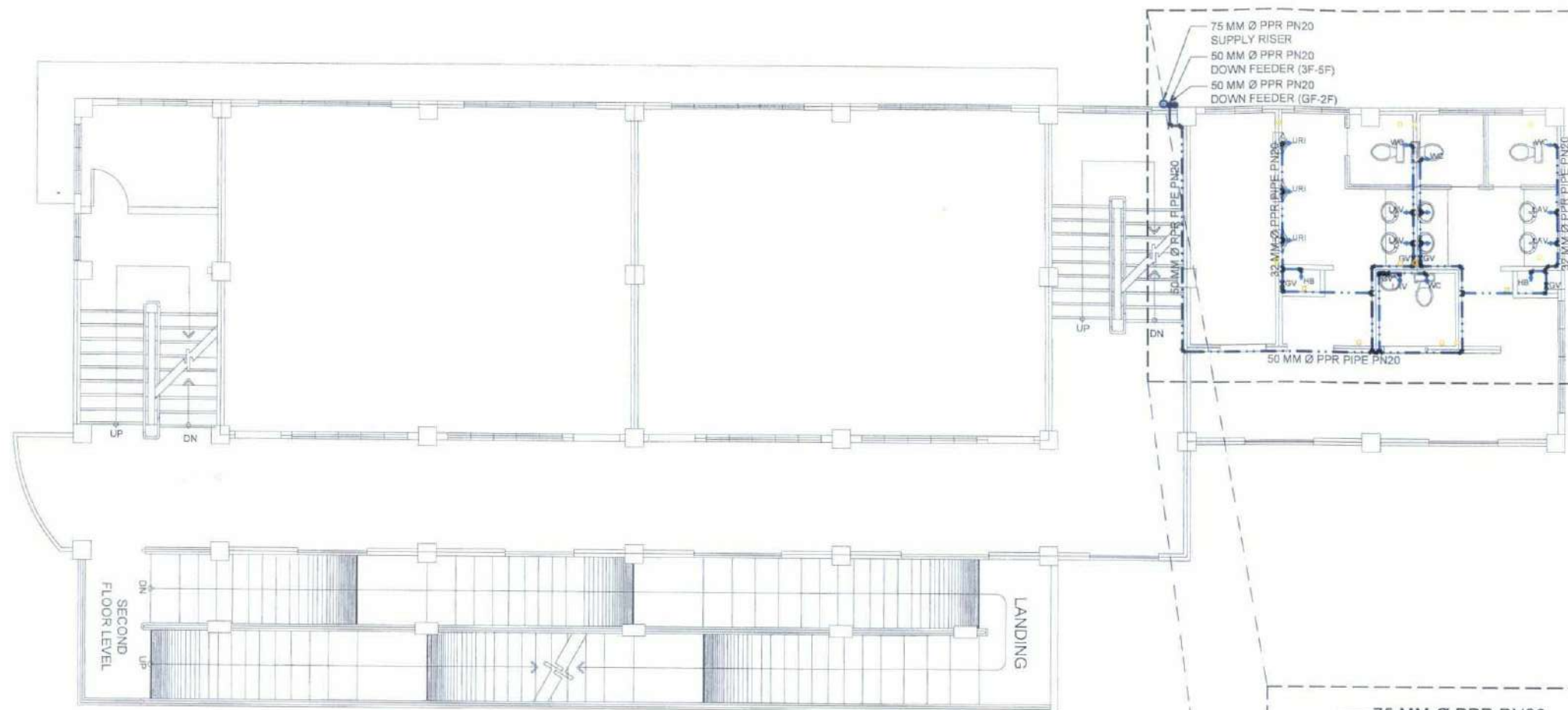
REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
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RECOMMENDING APPROVAL:
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PRESIDENT

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TYPICAL THIRD - FIFTH FLOOR WATERLINE LAYOUT

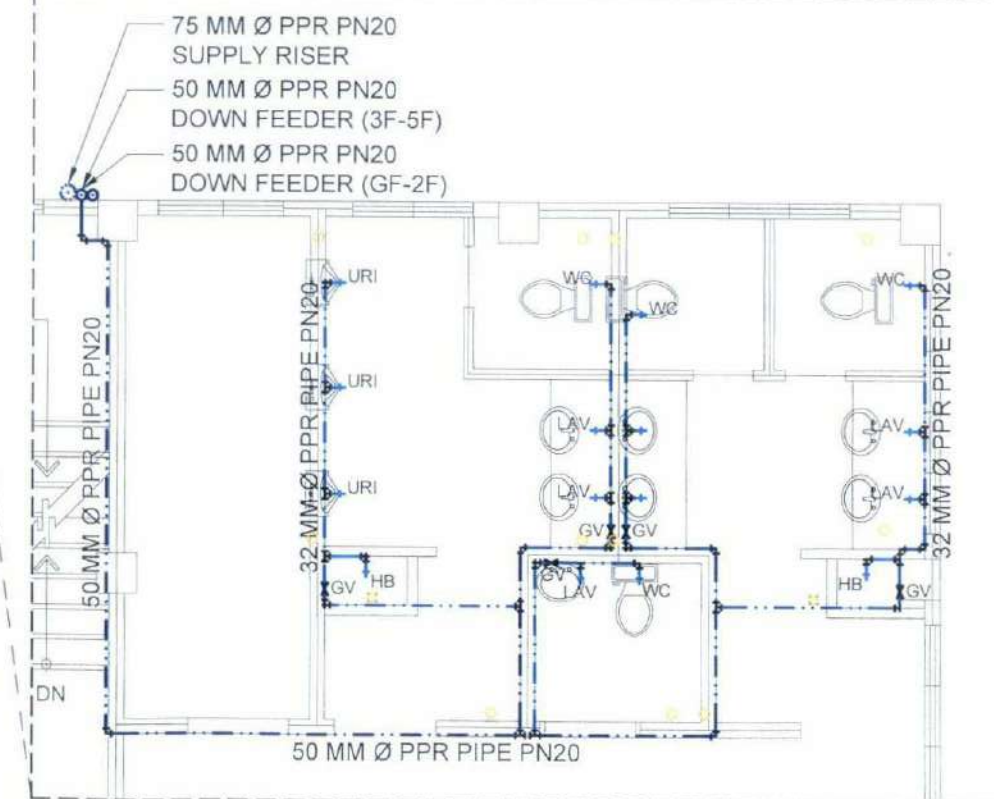
1:125 M

LEGEND		PPR PIPE SIZES		
		NOMINAL SIZE	OUTSIDE DIAMETER	PN 20 PIPE THICKNESS
----	63 MM Ø HDPE PIPE			
----	63 MM Ø PPR PIPE PN20			
----	75 MM Ø PPR PIPE PN20			
----	50 MM Ø PPR PIPE PN20			
----	32 MM Ø PPR PIPE PN20			
----	20 MM Ø PPR PIPE PN20			
		inches	mm	mm
		3/2"	20	3.4
		1"	32	5.4
		1 1/2"	50	8.3
		2"	63	10.5
		2 1/2"	75	12.5

NOTE:

• ALL FIXTURE SUPPLY PIPES WILL BE 20MM Ø PPR PIPE PN20, EXCEPT FOR THE PWD WATER CLOSET WHICH WILL BE 32 MM Ø PPR PIPE PN20.

• PROVIDE 300MM HIGH 25MM Ø PPR PIPE PN20 AIR CHAMBER WITH END CAP FOR EVERY LAVATORY, KITCHEN SINK, AND HOSE BIBBS.



BLOW-UP PLAN

SCALE 1:75 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 3300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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VP FOR ADMINISTRATION

APPROVED:

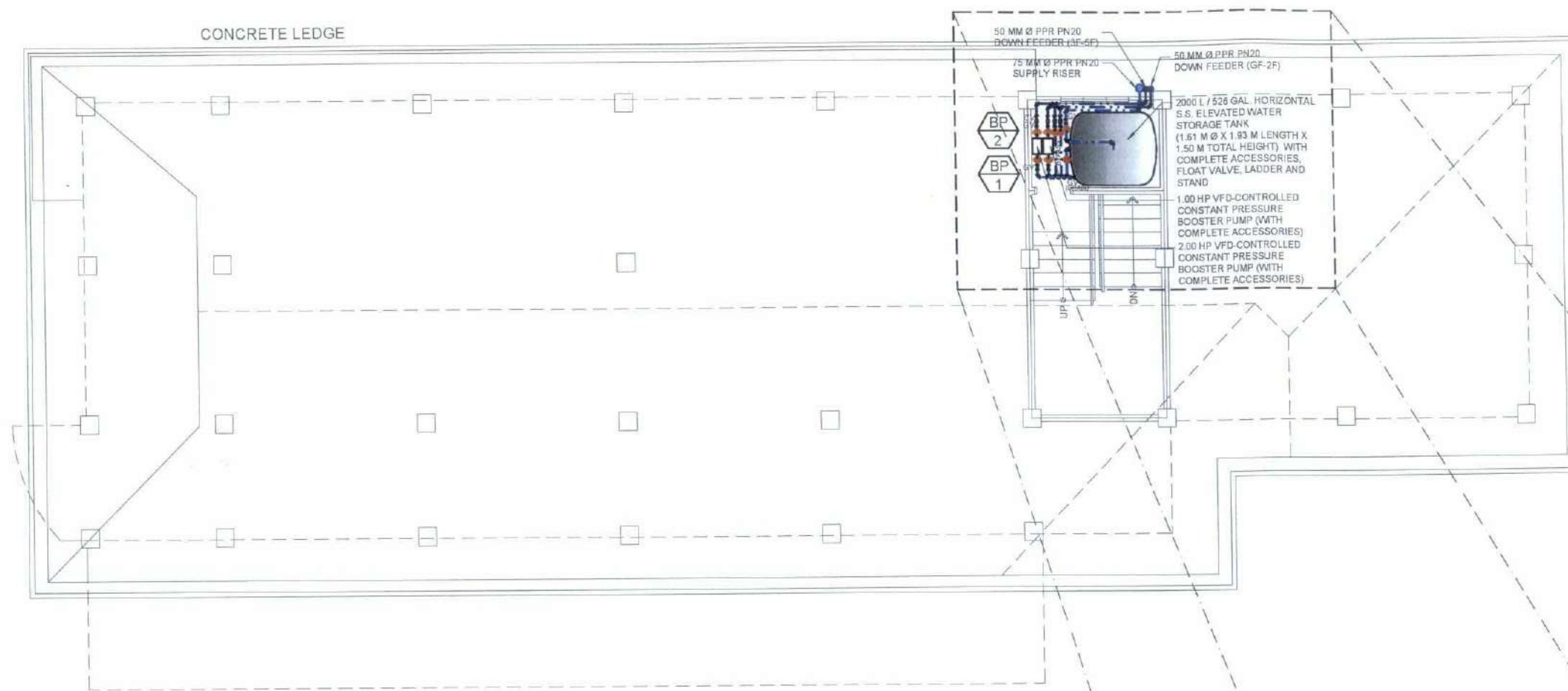
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:

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DATE: 2025

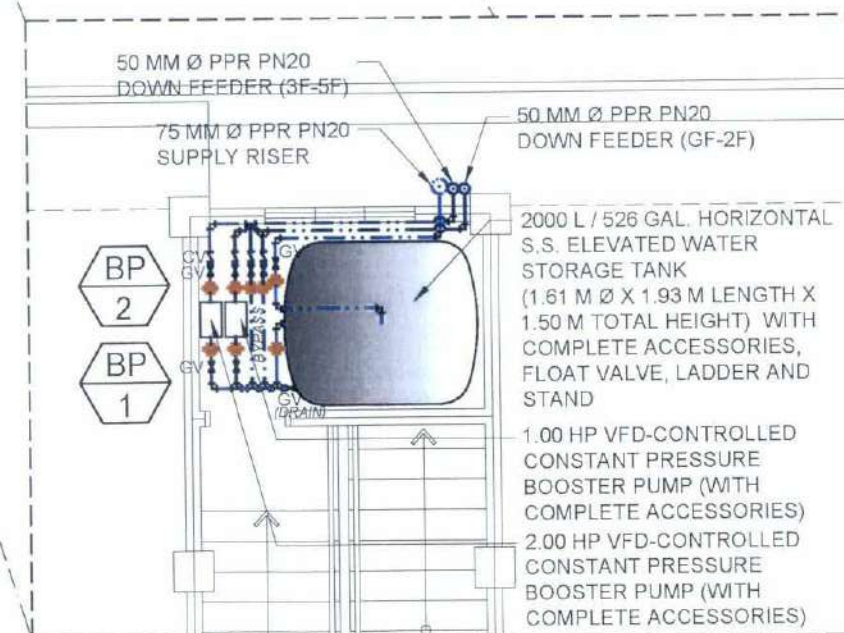
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WATER TANK ROOM WATERLINE LAYOUT

1:125 M



BLOW-UP PLAN

SCALE 1:75 M

LEGEND		PPR PIPE SIZES		
		NOMINAL SIZE	OUTSIDE DIAMETER	PN 20 PIPE THICKNESS
---	63 MM Ø HDPE PIPE			
---	63 MM Ø PPR PIPE PN20	inches	mm	mm
---	75 MM Ø PPR PIPE PN20	1"	20	3.4
---	50 MM Ø PPR PIPE PN20	1 1/2"	32	5.4
---	32 MM Ø PPR PIPE PN20	2"	50	8.3
---	20 MM Ø PPR PIPE PN20	2 1/2"	63	10.5
---			75	12.5

NOTE:

• ALL FIXTURE SUPPLY PIPES WILL BE 20MM Ø PPR PIPE PN20, EXCEPT FOR THE PWD WATER CLOSET WHICH WILL BE 32 MM Ø PPR PIPE PN20.

• PROVIDE 300MM HIGH 25MM Ø PPR PIPE PN20 AIR CHAMBER WITH END CAP FOR EVERY LAVATORY, KITCHEN SINK, AND HOSE BIBBS.



TARLAC STATE UNIVERSITY
Facilities Development and
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PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)

PROJECT LOCATION:
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REQUESTING OFFICE:
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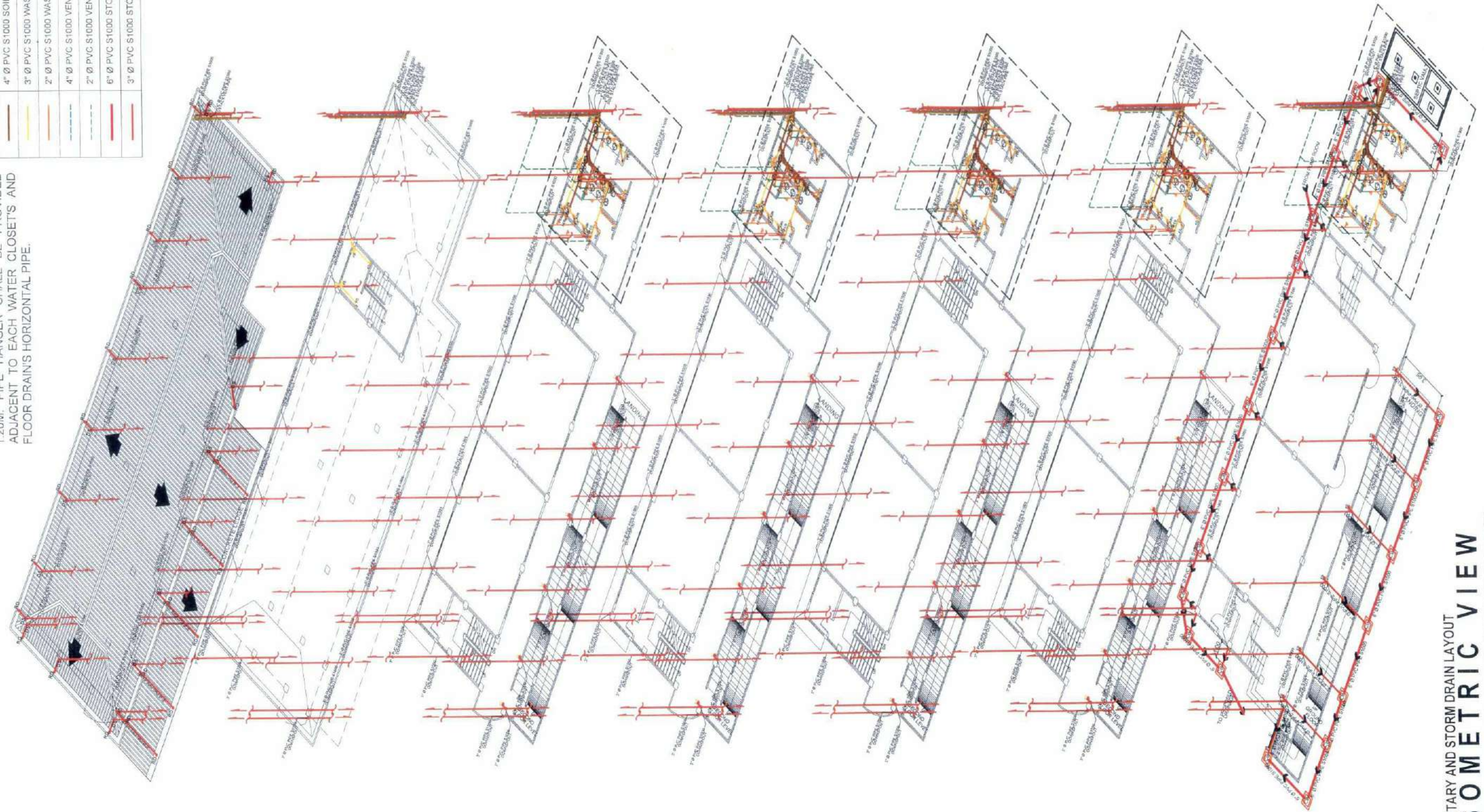
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

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LEGEND	
	8" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 WASTE PIPES
	4" Ø PVC S1000 VENT PIPES
	2" Ø PVC S1000 VENT PIPES
	6" Ø PVC S1000 STORM DRAIN PIPES
	3" Ø PVC S1000 STORM DRAIN PIPES

NOTE:
THE MAXIMUM SPACING OF PIPE HANGER
SUPPORTS FOR HORIZONTAL PIPES SHALL BE
1.20M. PIPE HANGER SHALL BE PROVIDED
ADJACENT TO EACH WATER CLOSET'S AND
FLOOR DRAIN'S HORIZONTAL PIPE.



SANITARY AND STORM DRAIN LAYOUT
ISOMETRIC VIEW

SCALE 1:225 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Rimulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
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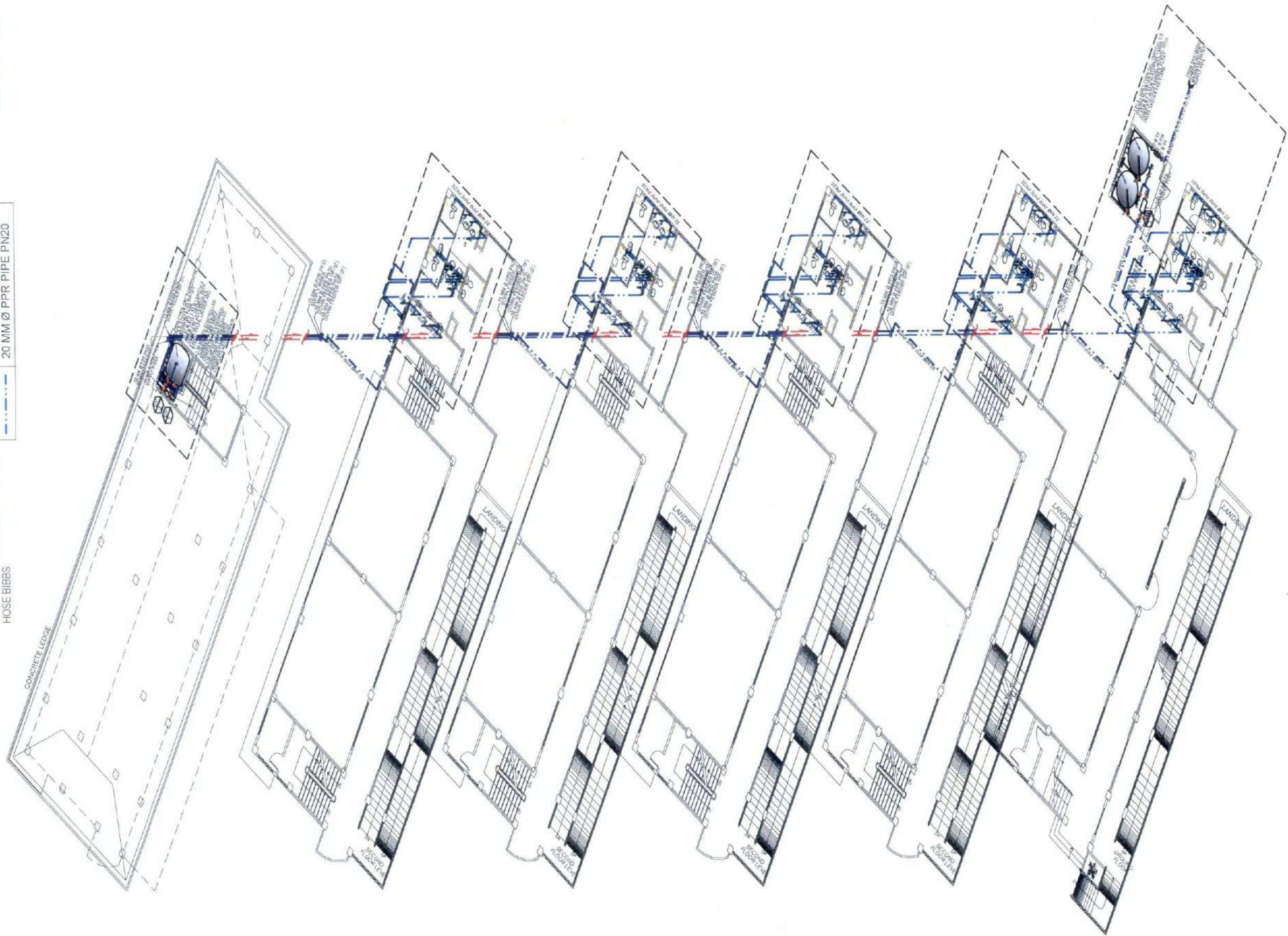
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DATE: 2025

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LEGEND	PPR PIPE SIZES		
	NOMINAL SIZE	OUTSIDE DIAMETER	PIPE THICKNESS
63 MM Ø HDPE PIPE	inches	mm	mm
63 MM Ø PPR PIPE PN20	1 1/2"	20	3.4
75 MM Ø PPR PIPE PN20	1"	32	5.4
50 MM Ø PPR PIPE PN20	1 1/2"	50	8.3
32 MM Ø PPR PIPE PN20	2"	63	10.5
20 MM Ø PPR PIPE PN20	2 1/2"	75	12.5

NOTE:

- ALL FIXTURE SUPPLY PIPES WILL BE 20MM Ø PPR PIPE PN20, EXCEPT FOR THE PWD WATER CLOSET WHICH WILL BE 32 MM Ø PPR PIPE PN20
- PROVIDE 300MM HIGH 25MM Ø PPR PIPE PN20 AIR CHAMBER WITH END CAP FOR EVERY LAVATORY, KITCHEN SINK, AND HOSE BIBBS



WATERLINE LAYOUT
ISOMETRIC VIEW

SCALE 1:200 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2100

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)

PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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CHECKED BY:
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AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:
Ar. Arlen M. Guieb
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
Miriam S. Galvez
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
Wilmak J. Ramos
ATTY. WILMARK J. RAMOS, DBA
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Arnold E. Velasco
DR. ARNOLD E. VELASCO
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DATE: 2025

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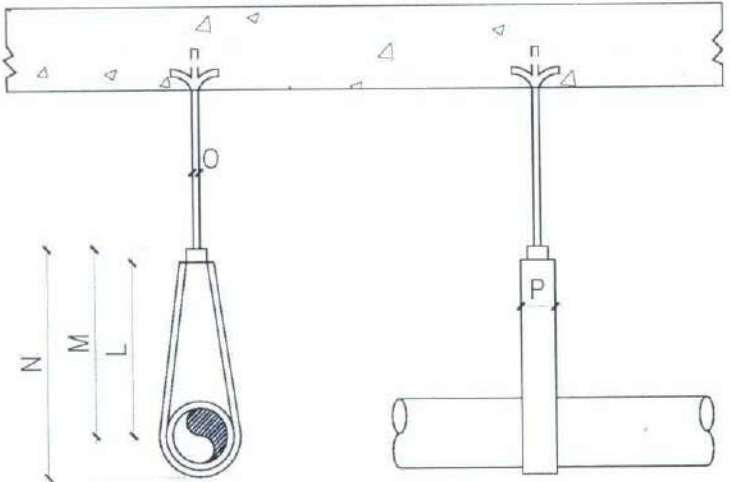
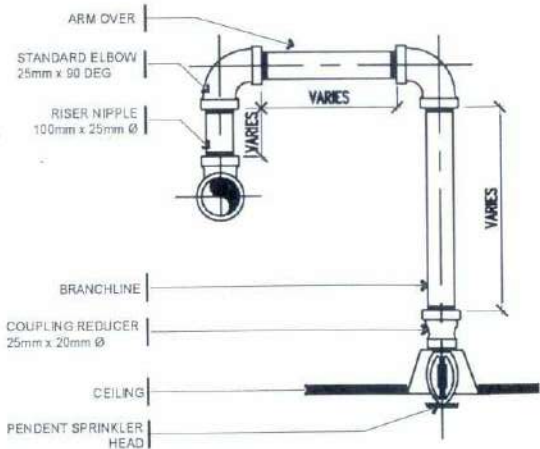
GENERAL NOTES:

- 1.0 THE FIRE PROTECTION SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES & REGULATIONS:
- THE FIRE CODE OF THE PHILIPPINES & REGULATIONS
NATIONAL BUILDING CODE OF THE PHILIPPINES
PMC - PHILIPPINE MECHANICAL CODE 2003
NFPA 10 - STANDARD FOR PORTABLE FIRE EXTINGUISHER
NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEM
NFPA 20 - STANDARD FOR THE INSTALLATION OF CENTRIFUGAL FIRE PUMP
UNDERWRITERS LABORATORIES, INC. (UL)
FACTORY MUTUAL (FM)
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- 2.0 DESIGN CRITERIA:
- TYPE OF OCCUPANCY : LIGHT HAZARD
SYSTEM CLASS : EDUCATIONAL
DESIGN DENSITY : 0.10 gpm/ft
AREA OF SPRINKLER OPERATION : 677.77 ft²
DURATION OF WATER SUPPLY : 30 MINUTES
SPRINKLER TEMPERATURE : 165 °F (RED)(GLASS BULB)(QUICK RESPONSE)
SPRINKLER K-FACTOR : 5.6
HOSE STREAM ALLOWANCE : 100 gpm
- 3.0 ALL FIRE PROTECTION WORKS SHALL CONFORM WITH THE LATEST EDITION OF THE FIRE CODE OF THE PHILIPPINES, NFPA AND LOCAL ORDINANCES, AND ALL INSTALLATION SHALL BE SUPERVISED BY A LICENSED MECHANICAL ENGINEER.
- 4.0 PIPING TO BE SCHD.#40 BLACK IRON PIPE, FITTINGS 50mm AND SMALLER SHALL BE SCREWED TYPE, 65mm AND LARGER SHALL BE WELDED TYPE.
- 5.0 SCREWED UNIONS SHALL NOT USED ON PIPE LARGER THAN 50mm.
- 6.0 ALL THREADED PIPE AND FITTINGS SHALL HAVE THREAD CUT TO ASME B1.20.1. (PIPE THREADS, GENERAL PURPOSE).
- 7.0 HEXAGONAL BUSHING OR FACE BUSHING SHALL BE PERMITTED IN REDUCING THE SIZE OF OPENING OF FITTING WHEN THE STANDARD FITTINGS OF THE REQUIRED SIZE ARE NOT AVAILABLE.
- 8.0 ALL PIPES SIZES ARE IN MILLIMETERS, DIAMETER, UNLESS OTHERWISE SPECIFIED.
- 9.0 CONTRACTOR TO VERIFY ACTUAL TAPPING POINTS(POINT OF CONNECTIONS),
PIPE SIZES & OTHER DATA REQUIRED FOR THE COMPLETE OPERATION OF THE SYSTEM.
- 10.0 THE SUCTION PIPE AND PUMP SUCTION FLANGE ARE NOT OF THE SAME SIZE, THEY SHALL BE CONNECTED WITH AN ECCENTRIC TAPERED REDUCER OR INCREASER INSTALLED IN SUCH A WAY AS TO AVOID AIR POCKET.
- 11.0 THE USE OF THREDOLET OR WELDOLET IS ACCEPTABLE PROVIDED THAT HOLE SAW IS USED IN CUTTING HOLE THRU.
- 12.0 ALL PIPES PASSING THRU WALLS AND SLAB SHALL BE PROVIDED W/ PIPE SLEEVE AND FIRE RATED SEALANT.
- 13.0 ALL UNDERGROUND PIPES MUST BE WRAPPED WITH ANTI-CORRSION TAPE OR AN EQUIVALENT PROTECTIVE MATERIAL.
- 14.0 THE USE OF SCREWED CROSS FITTING IS NOT ACCEPTABLE
- 15.0 ALL SPRINKLER HEADS SHALL BE STANDARD RESPONSE TYPE.
- 16.0 THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF SPRINKLER IN COORDINATION WITH THE ARCHITECTURAL CEILING LAYOUT. ANY RELOCATION SHALL BE SUBJECT TO ARCHITECT'S AND ENGINEER'S APPROVAL.
- 17.0 ALL DRAIN PIPES FOR INSPECTOR'S TEST CONNECTION AND DRAIN VALVES SHALL BE PIPED TO THE NEAREST FLOOR DRAIN/STORM DRAIN.

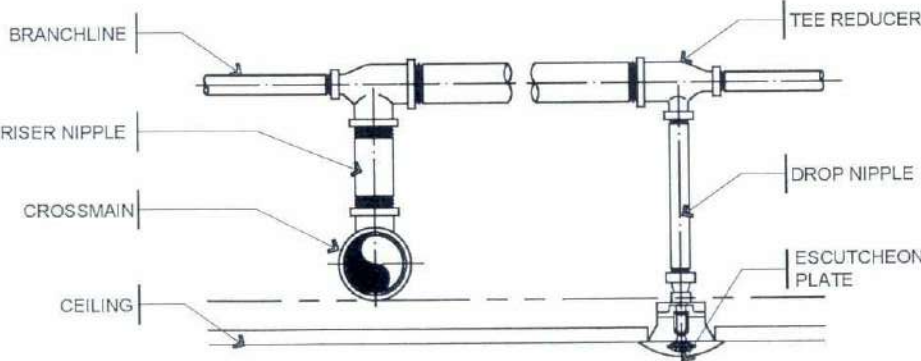
LEGENDS AND SYMBOLS

SYMBOL	DESCRIPTION
	CROSS MAIN
	BRANCH LINE
	DRAIN LINE
	UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	GV - GATE VALVE
	CV - CHECK VALVE
	OS & Y GATE VALVE
	FCV - FIRE CONNECTION VALVE
	FIRE ALARM CHECK VALVE
	PRV - PRESSURE RELIEF VALVE
	FIRE DEPARTMENT (GAMGE) CONNECTION
	FM - FLOW METER
	PENDENT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	FP - FIRE PUMP
	JP - JOCKEY PUMP
	REDUCER
	RN - RISER NIPPLE
	FIRE HOSE CABINET
	PIPE END CAP

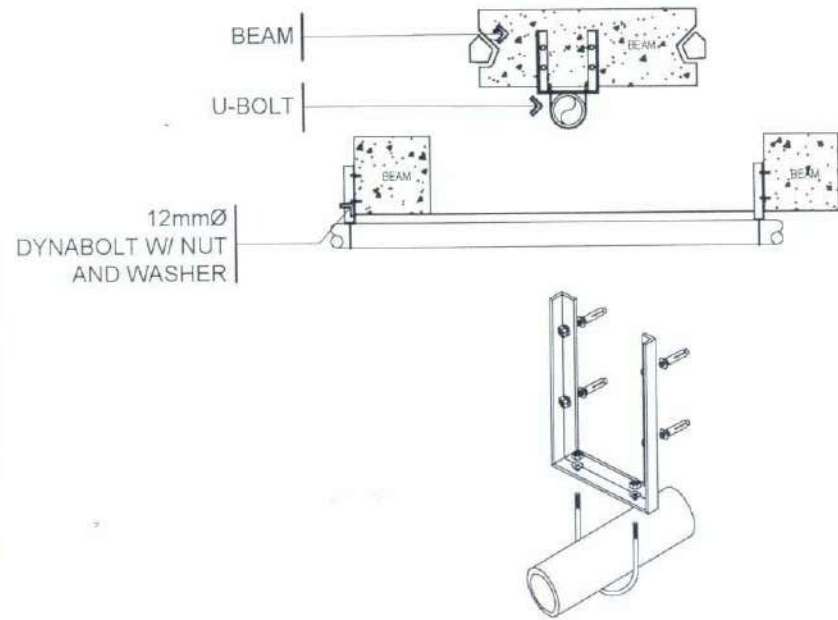
PIPE SIZE	mm	25	32	40	50	65	80	100
	inch	1	1 1/4	1 1/2	2	2 1/2	3	4
L	mm	54	57	57	65	75	79	89
	inch	2 1/8	2 1/4	2 1/4	2 1/2	3	3 1/8	3 1/2
M	mm	70	73	79	89	108	121	130
	inch	2 3/4	2 7/8	3 1/8	3 1/2	4 1/4	4 3/4	5 1/8
N	mm	83	95	110	121	143	146	191
	inch	3 1/4	3 3/4	4 1/4	4 3/4	5 5/8	5 3/4	7 1/2
O	mm	10	10	10	10	13	13	16
	inch	3/8	3/8	3/8	3/8	1/2	1/2	5/8
P	mm	1.6x16	1.6x16	1.6x16	1.6x16	2.4x19	2.4x19	3.2x19
	inch	1/16 x 5/8	1/16 x 5/8	1/16 x 5/8	1/16 x 5/8	3/32 x 3/4	3/32 x 3/4	1/8 x 3/4



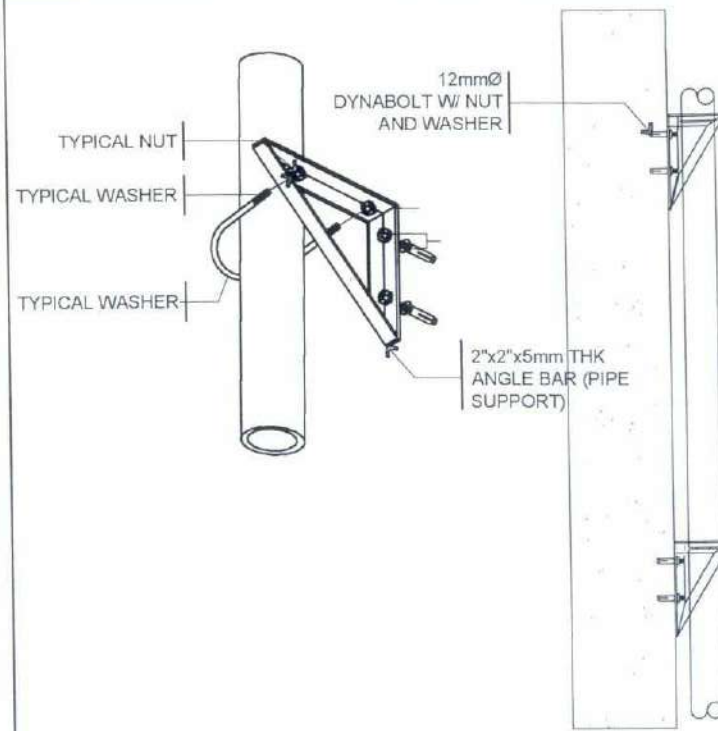
01 SCHEDULE OF PIPE HANGERS AND SUPPORTS
SCALE: NTS



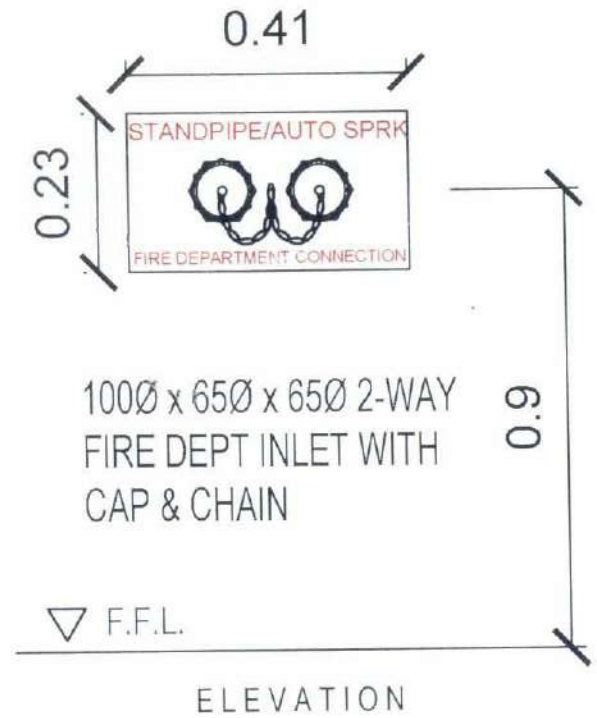
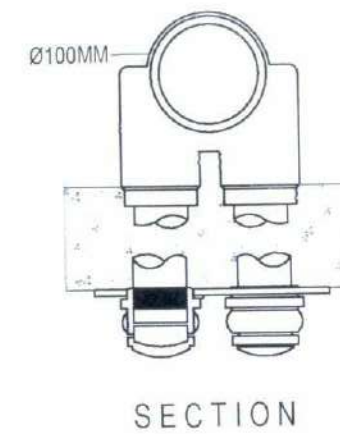
03 TYPICAL CROSSMAIN/BRANCHLINE CON. DETAIL
SCALE: NTS



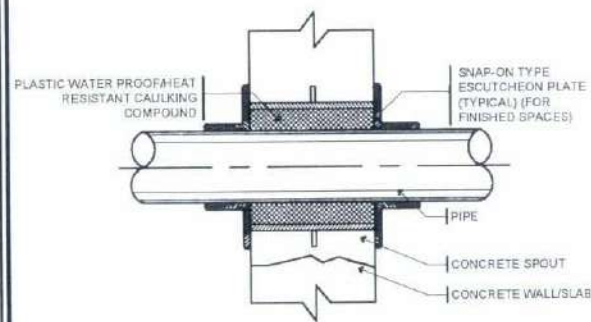
01
M-03
AFSS ACADEMIC BUILDING
CROSSMAIN HANGER DETAIL
SCALE: NTS



02
M-03
AFSS ACADEMIC BUILDING
PIPE RISER SUPPORT DETAIL
SCALE: NTS

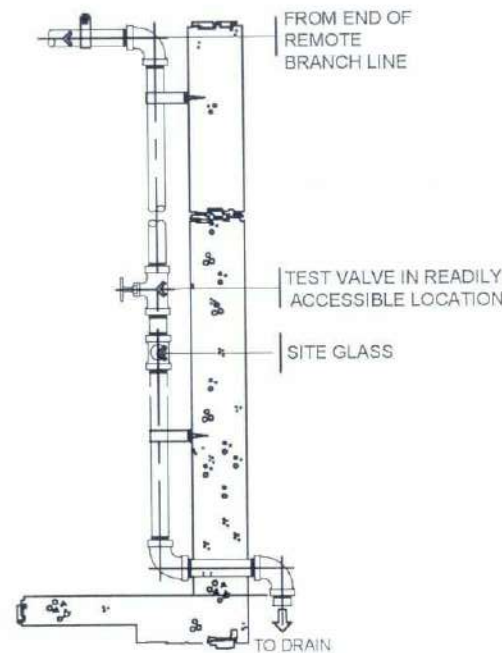


03
M-02
AFSS ACADEMIC BUILDING
FIRE DEPARTMENT CON. DETAIL
SCALE: NTS

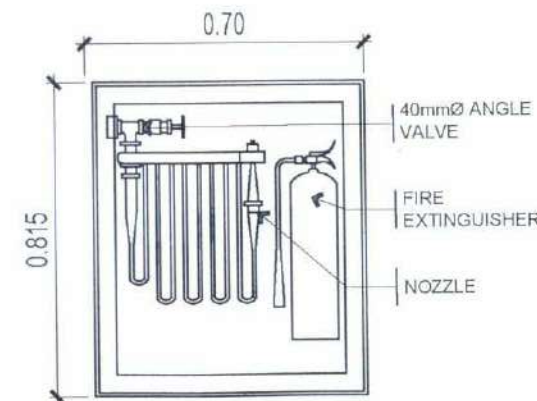


04
M-03
AFSS ACADEMIC BUILDING
PIPE THRU WALLS/SLAB DETAIL
SCALE: NTS

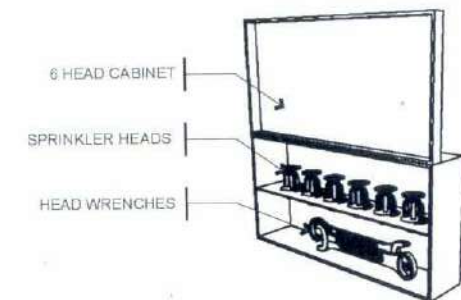
SCHEDULE OF PIPE SLEEVE					
PIPE SIZE		PIPE SLEEVE			
mm.	in.	mm.	in.		
25	1	50	2		
32	1.25	50	2		
40	1.50	65	2.50		
50	2	75	3		
80	3	100	4		
100	4	150	6		
150	6	200	7		



06
M-02
AFSS ACADEMIC BUILDING
INSPECTOR'S TEST CON. DETAIL
SCALE: NTS

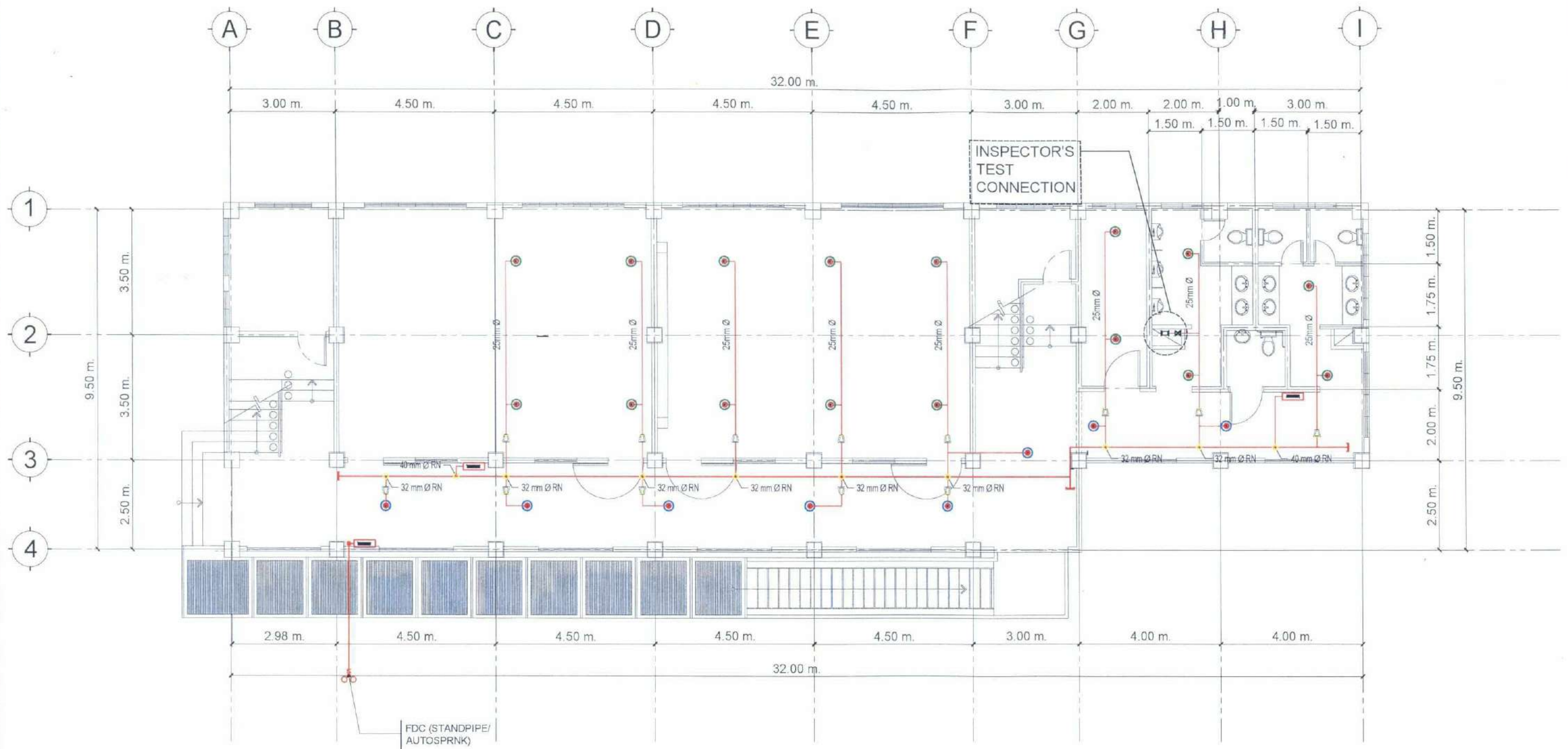


08
M-02
AFSS ACADEMIC BUILDING
FIRE HOSE CABINET DETAIL
SCALE: NTS



07
M-02
AFSS ACADEMIC BUILDING
SPARE SPRINKLER CABINET DETAIL
SCALE: NTS

NOTE:
OS & Y GATE VALVE SHALL BE PROVIDED WITH SUPERVISORY
SWITCH INTERLOCKED WITH FIRE ALARM SYSTEM



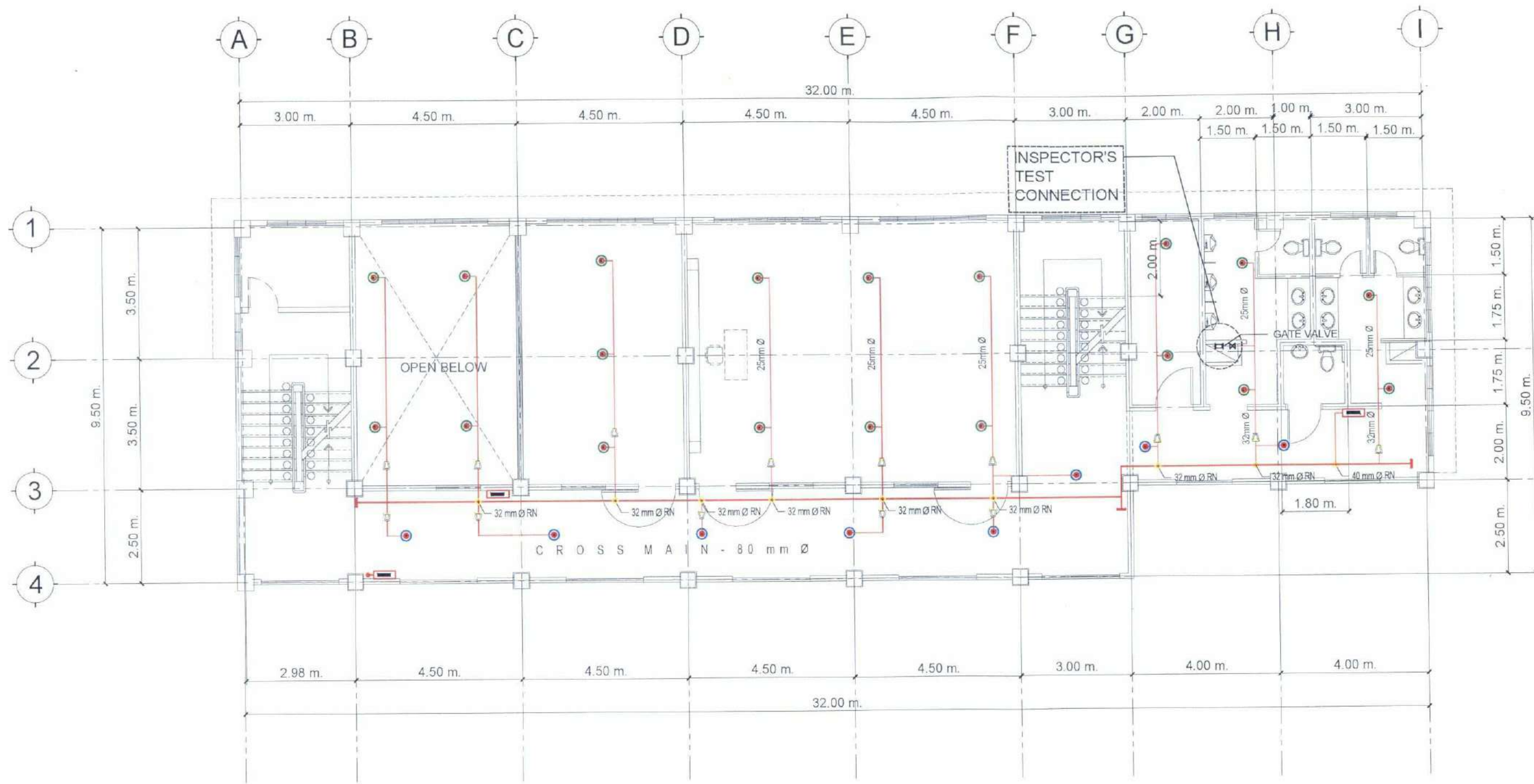
01
M-03
AFSS ACADEMIC BUILDING
GROUND FLOOR AUTO. FIRE SPRINKLER SYSTEM LAYOUT
SCALE 1:115 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	PREPARED BY: ENGR. JOHN MYRO B. GANARA MECHANICAL ENGINEER, OFDM-AMU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: 2025	SHEET NO.: M-03 PAGE NO.: 112/119
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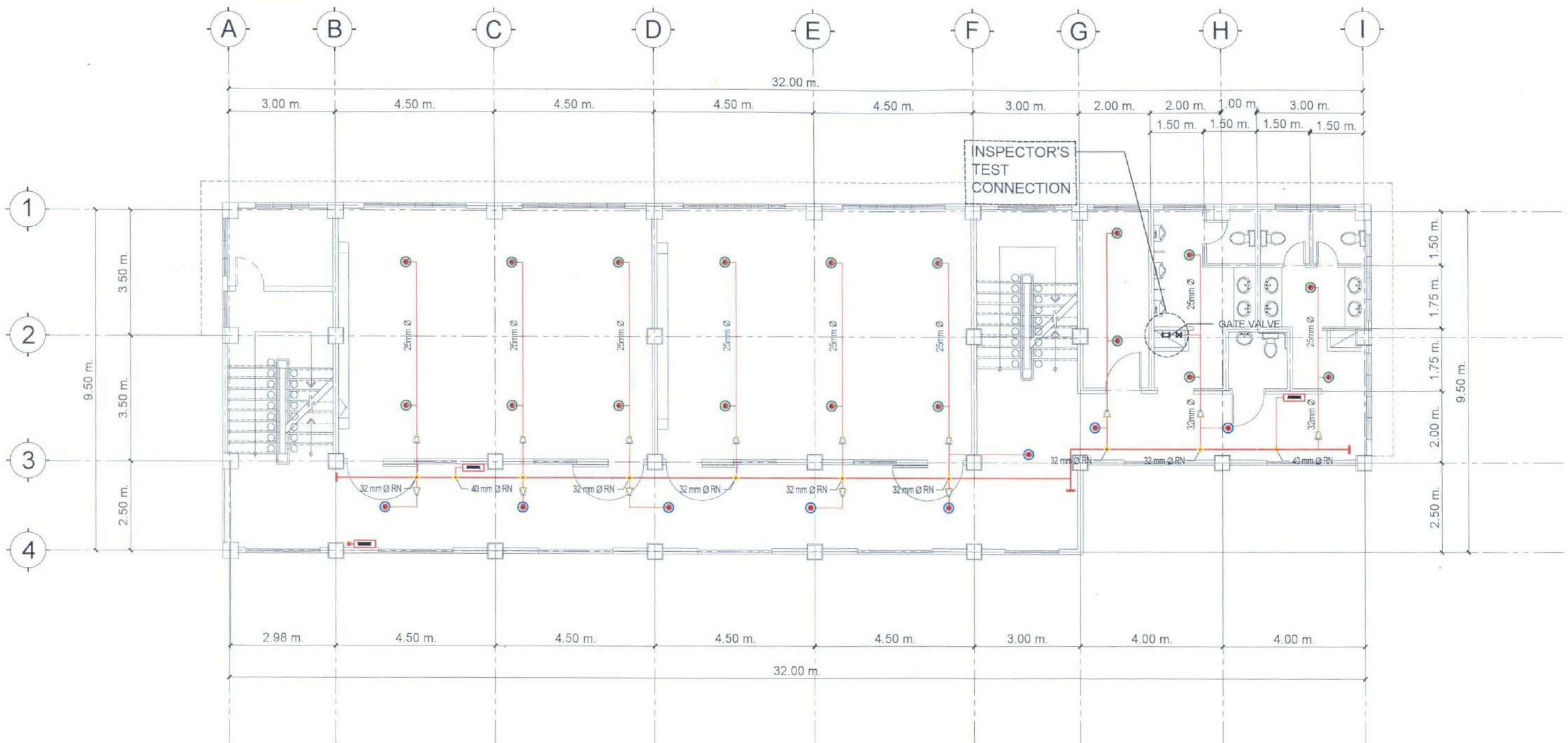
NOTE:
OS & Y GATE VALVE SHALL BE PROVIDED WITH SUPERVISORY
SWITCH INTERLOCKED WITH FIRE ALARM SYSTEM



01
M-04
AFSS ACADEMIC BUILDING
SECOND FLOOR AUTO. FIRE SPRINKLER SYSTEM LAYOUT
SCALE 1:115 M

 TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2306	PROJECT TITLE: CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1) PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY:  ENGR. JOHN MYRO B. GANARA MECHANICAL ENGINEER, OFDM-MIU	CHECKED BY:  AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY:  AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:  DR. MIRIAM S. GALVEZ DEAN, COE	RECOMMENDING APPROVAL:  ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED:  DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN SHEET NO.: M-04 PAGE NO.: 113/119 DATE: 2025
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NOTE:
OS & Y GATE VALVE SHALL BE PROVIDED WITH SUPERVISORY
SWITCH INTERLOCKED WITH FIRE ALARM SYSTEM



01
M-05
AFSS ACADEMIC BUILDING
THIRD TO FOURTH FLOOR AUTO. FIRE SPRINKLER SYSTEM LAYOUT
SCALE 1:115M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Road, Tarlac City, Philippines 2100

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

ENGR. JOHN MYRO B. GANARA
MECHANICAL ENGINEER, OFDM-MBU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:

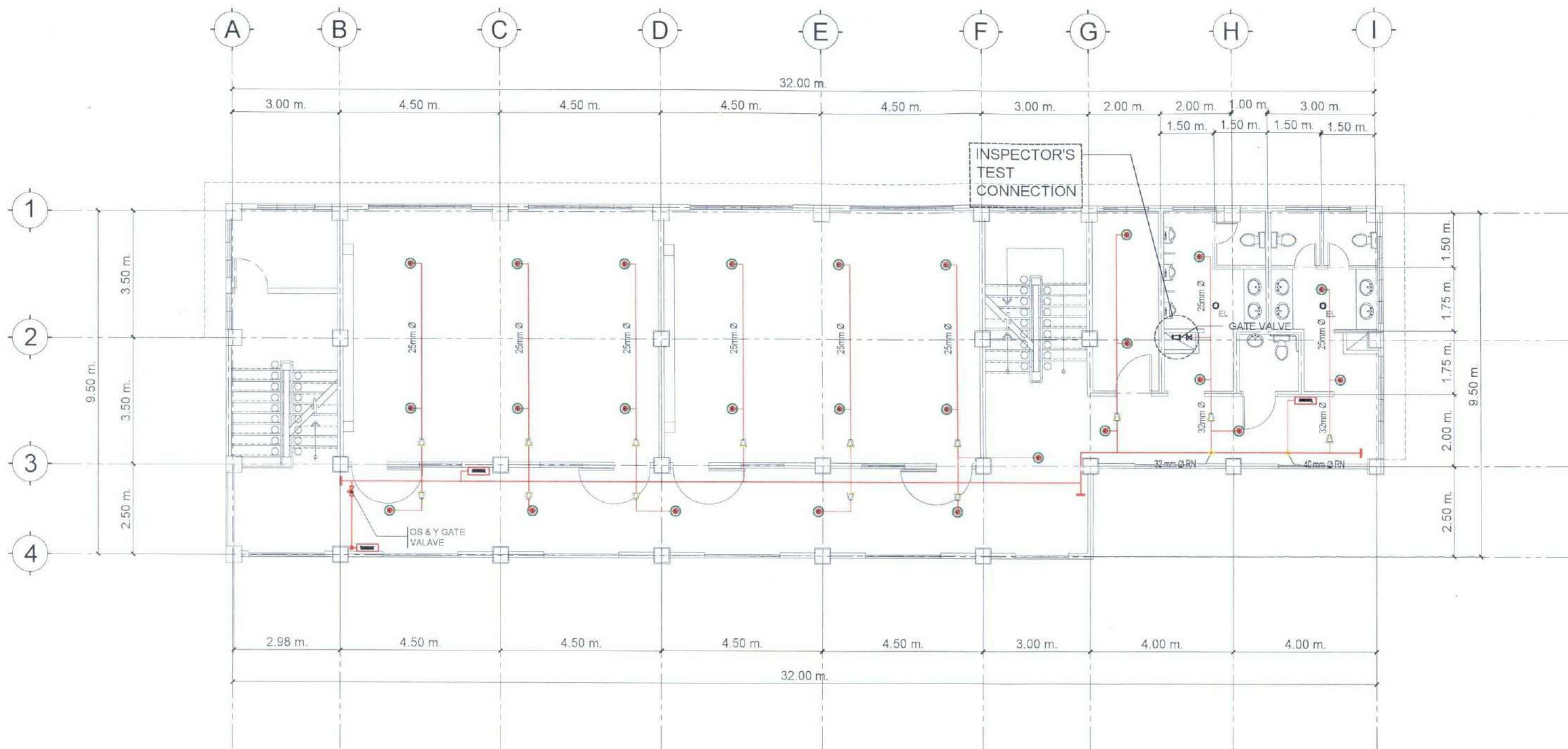
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO.:
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PAGE NO.:
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01
M-06

AFSS ACADEMIC BUILDING
FIFTH FLOOR AUTO. FIRE SPRINKLER SYSTEM LAYOUT
SCALE 1:115M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Roadward, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

ENGR. JOHN MYRO B. GANARA
MECHANICAL ENGINEER, OFDM-MIU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:

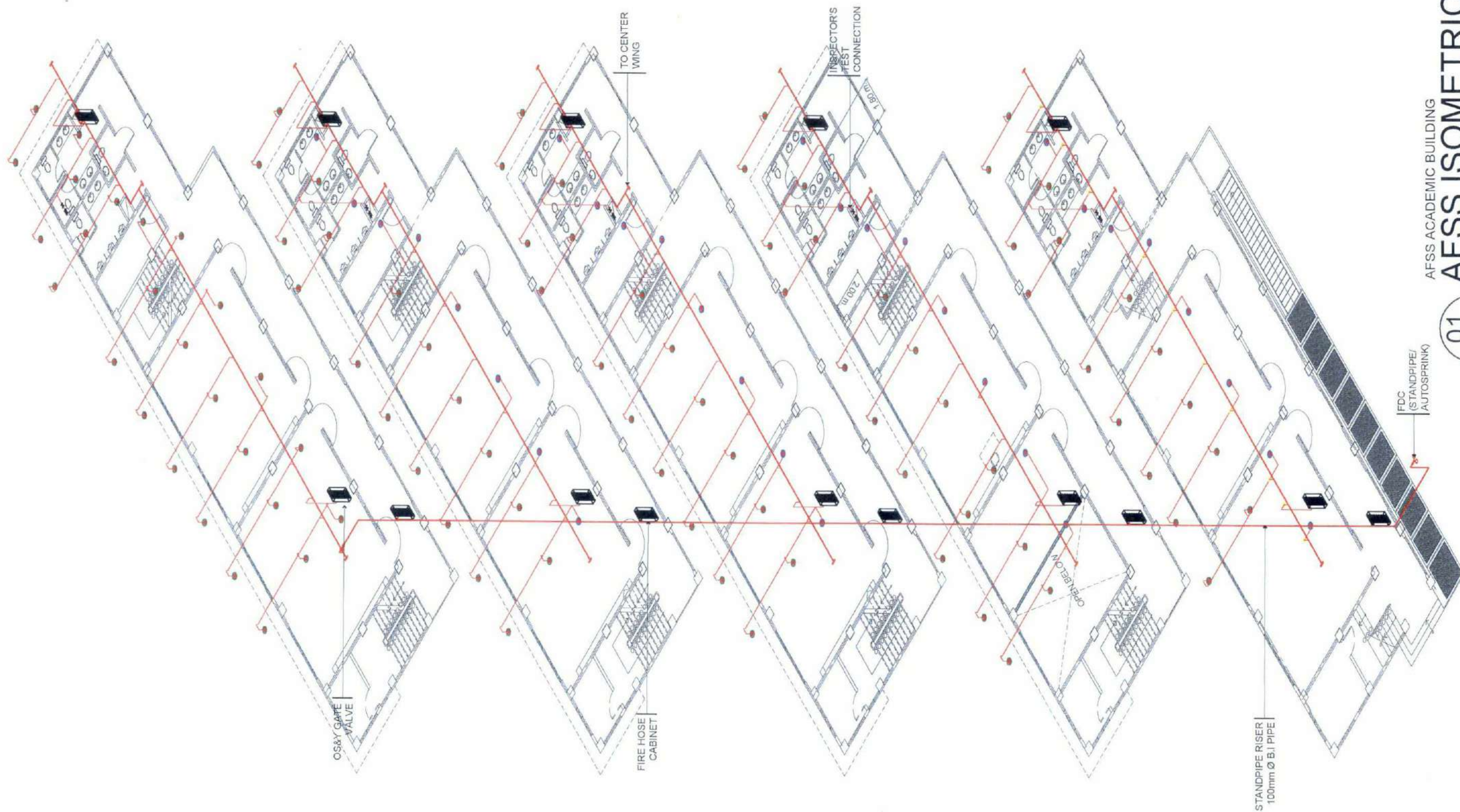
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
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DATE: 2025

SHEET NO:
M-06
PAGE NO:
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AFSS ISOMETRIC VIEW

SCALE 1:160 M

01

M-07



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
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ENGR. JOHN MYRO B. GANARA
MECHANICAL ENGINEER, OFDM-MAU

CHECKED BY:
[Signature]
AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:
[Signature]
AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:
[Signature]
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
[Signature]
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
[Signature]
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

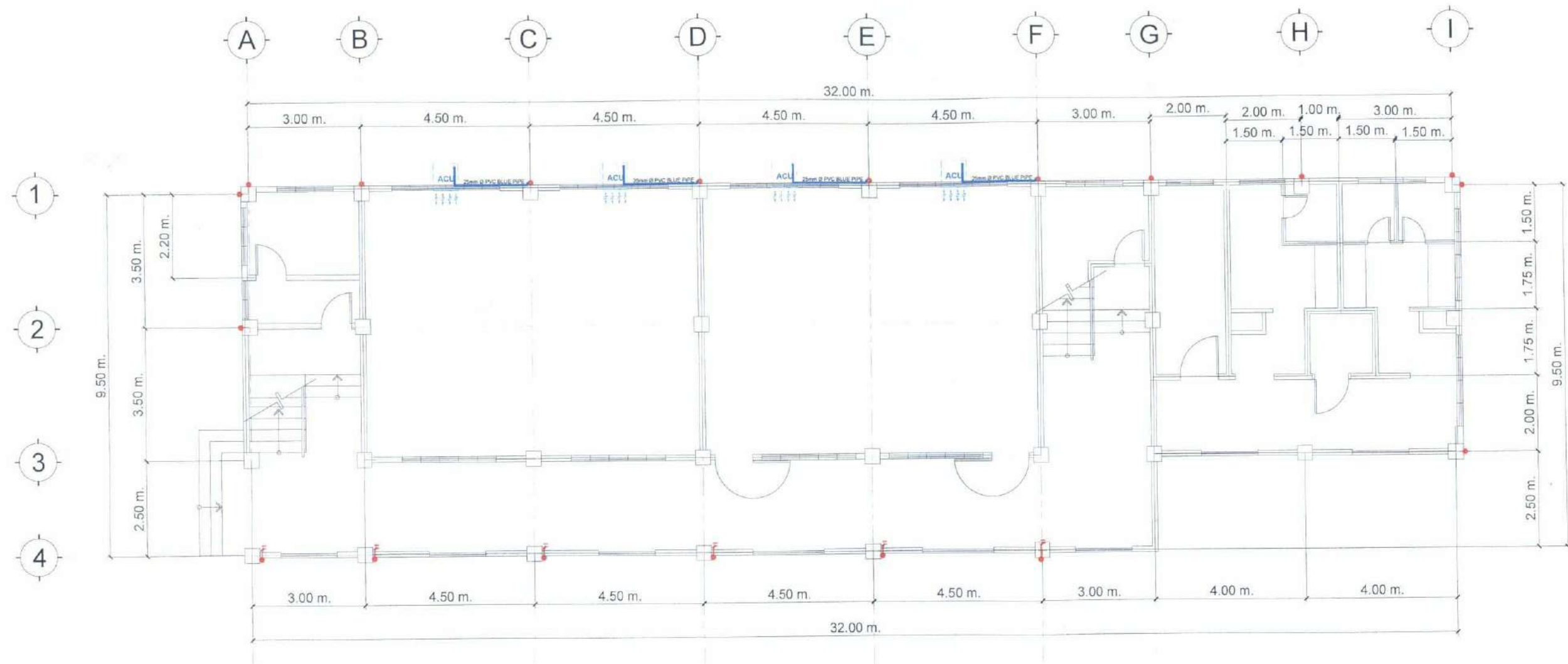
SHEET NO.:
M-07
PAGE NO.:
116/119

NOTE:

- CONDENSATE DRAIN PIPES FOR AIR CONDITIONING UNITS SHALL BE MADE OF 25mm Ø PVC (BLUE) AND MUST BE CONCEALED ON WALL/SLAB.
- ALL AIR CONDITIONING UNITS ARE **NOT INCLUDED** ON THE SCOPE OF WORK.

LEGENDS:

- 25mm Ø PVC BLUE PIPE
- DOWNSPOUT
- ACU WINDOW TYPE (PROPOSED LOCATION; ITEM NOT INCLUDED)



01
M-08

ACU'S ACADEMIC BUILDING

GROUND, 3RD, 4TH AND 5TH FLOOR CONDENSATE DRAINPIPE LAYOUT

SCALE 1:125 M



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Ramulio Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
ENGR. JOHNNY B. GANARA
MECHANICAL ENGINEER, OFDM-MU

CHECKED BY:
AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:
AR. ARLEN D. GUIB
DIRECTOR, OFDM

REQUESTING OFFICE:
DR. MIRIAM S. GALVEZ
DEAN, COE

RECOMMENDING APPROVAL:
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

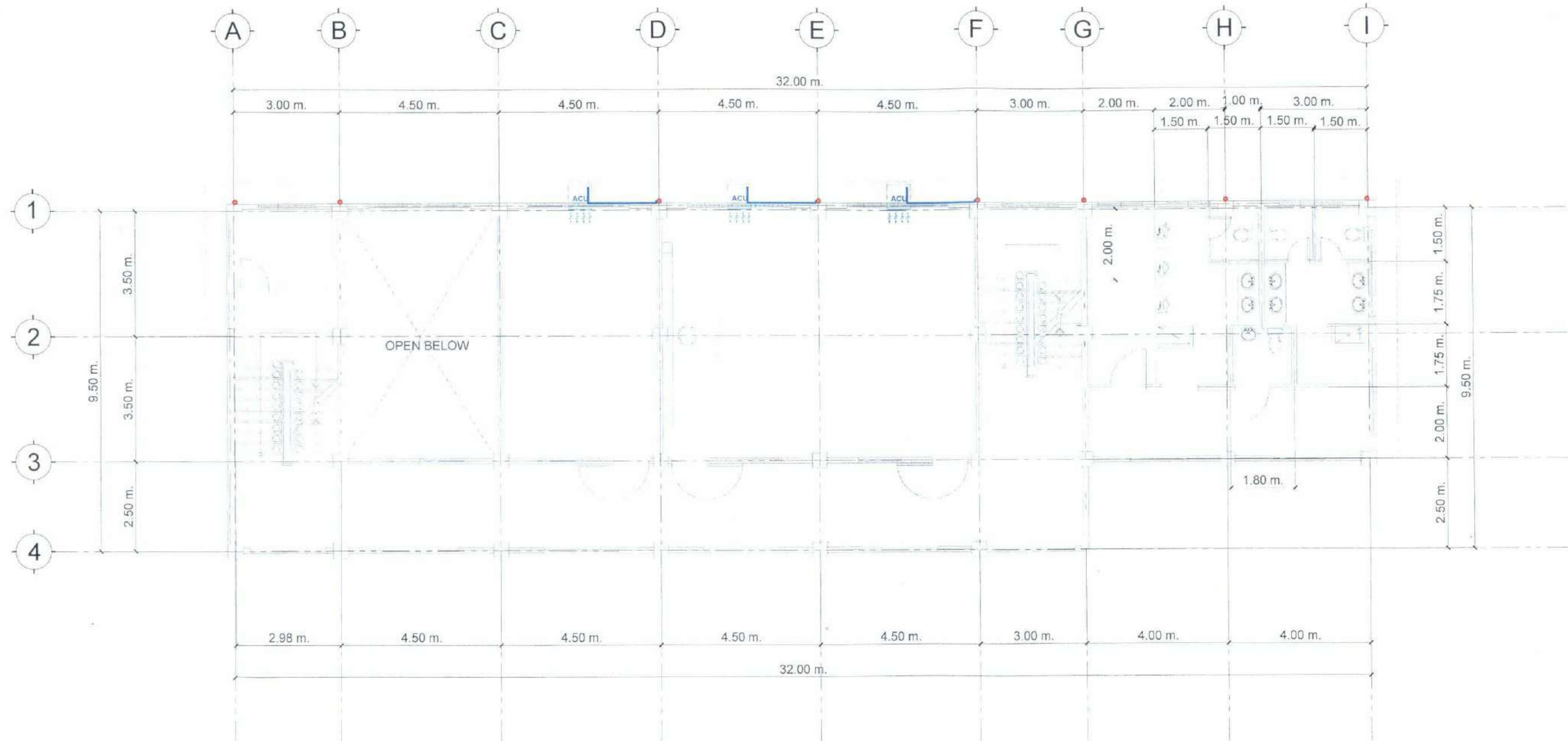
SHEET NO.:
M-08
PAGE NO.:
117/119

NOTE:

- CONDENSATE DRAIN PIPES FOR AIR CONDITIONING UNITS SHALL BE MADE OF 25mm Ø PVC (BLUE) AND MUST BE CONCEALED ON WALL/SLAB.
- ALL AIR CONDITIONING UNITS ARE **NOT INCLUDED** ON THE SCOPE OF WORK.

LEGENDS:

- 25mm Ø PVC BLUE PIPE
- DOWNSPOUT
- ACU WINDOW TYPE (PROPOSED LOCATION; ITEM NOT INCLUDED)



01
M-09
ACU'S ACADEMIC BUILDING
SECOND FLOOR CONDENSATE DRAINPIPE LAYOUT
SCALE 1:125 M

 TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
	CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)	ENGR. JOHN MYRO B. GANARA MECHANICAL ENGINEER, OFDM-MIU	AR. CHERRY L. FABIANES HEAD, OFDM-POU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. MIRIAM S. GALVEZ DEAN, COE	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	M-09
	PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: 2025	PAGE NO: 118/119

LEGENDS:



- ACU WINDOW TYPE
(PROPOSED LOCATION;
ITEM NOT INCLUDED)



- 25mm Ø PVC BLUE PIPE

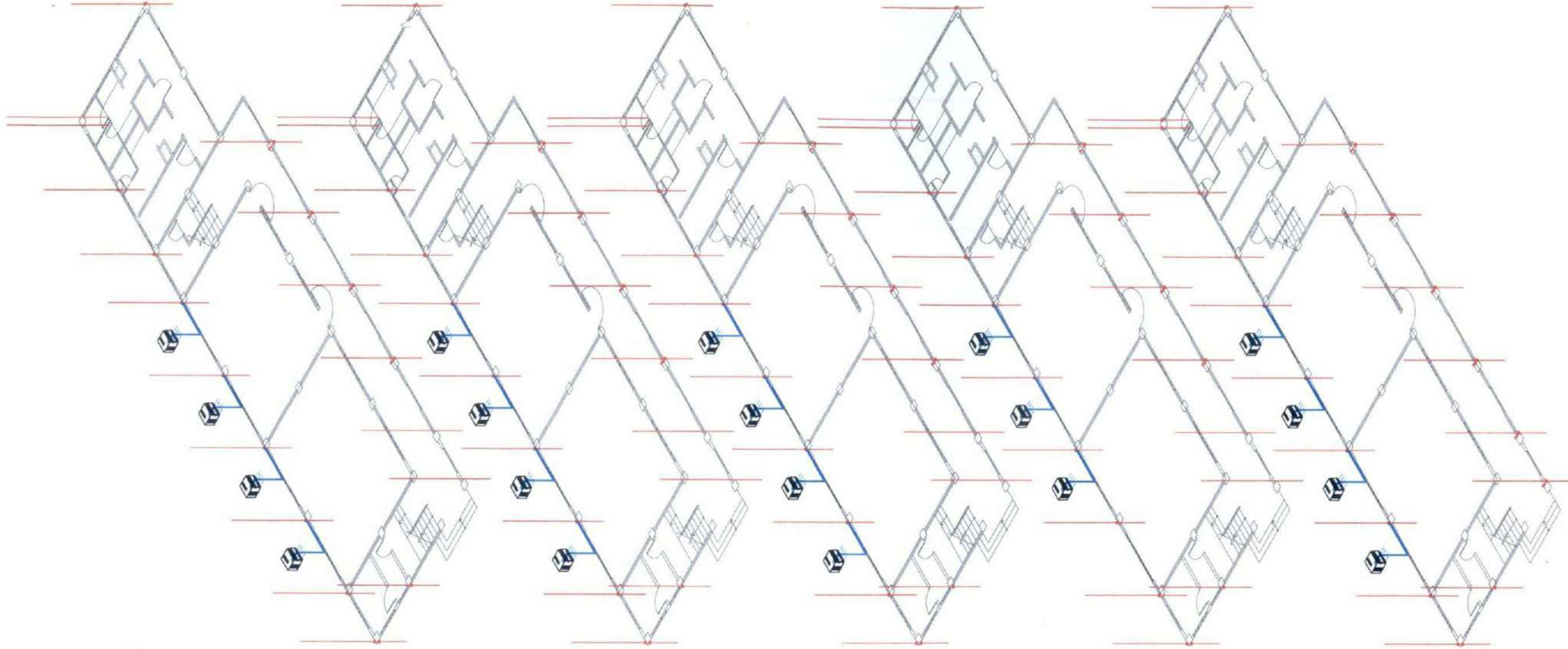


- 75mm Ø PVC S1000 STORM
DRAIN PIPES

NOTE:

CONDENSATE DRAIN PIPES
FOR AIR CONDITIONING
UNITS SHALL BE MADE OF
25mm Ø PVC (BLUE) AND
MUST BE CONCEALED ON
WALL/SLAB.

ALL AIR CONDITIONING
UNITS ARE **NOT INCLUDED**
ON THE SCOPE OF WORK.



TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF COE ACADEMIC BUILDING (PHASE 1)
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

ENGR. JOHN MYRO B. GANARA
MECHANICAL ENGINEER, OFDM-MIU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. MIRIAM S. VALVEZ
DEAN, COE

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ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

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PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: 2025

SHEET NO:
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PAGE NO:
119/119

ACU'S ACADEMIC BUILDING

CONDENSATE DRAIN PIPE ISOMETRIC VIEW

01
M-10

SCALE 1:200 M