



P E R S P E C T I V E

TABLE CONTENTS

A01	PERSPECTIVE & TABLE CONTENTS	1	A01	MATERIAL RECOVERY FACILITY (MRF) LUCINDA CAMPUS	34
A02	MATERIAL RECOVERY FACILITY (MRF) SAN ISIDRO CAMPUS	2	A02	EXTERIOR PERSPECTIVE	35
A03	EXTERIOR PERSPECTIVE	3	A03	LOCATION MAP, VICINITY MAP & EMBANKMENT PLAN	36
A04	LOCATION MAP, VICINITY MAP & EMBANKMENT PLAN	4	A04	SITE DEVELOPMENT PLAN	37
A05	SITE DEVELOPMENT PLAN	5	A05	PROPOSED FLOOR PLAN	38
A06	GATE ELEVATION & SPOT DETAILS	6	A06	FRONT & RIGHT-SIDE ELEVATIONS	39
A07	PROPOSED FLOOR PLAN	7	A07	REAR & LEFT-SIDE ELEVATIONS, ROOF FLASHING DETAIL	40
A08	FRONT & RIGHT-SIDE ELEVATIONS	8	A08	CROSS & LONGITUDINAL SECTIONS	41
A09	REAR & LEFT-SIDE ELEVATIONS, ROOF FLASHING DETAIL	9	A09	PROPOSED ROOF PLAN	42
A10	CROSS & LONGITUDINAL SECTIONS	10	A10	GROUND FLOOR FINISHES	43
A11	PROPOSED ROOF PLAN	11	A11	TOILET PLAN, SECTIONAL ELEVATIONS & TOILET SIGNAGE DETAIL	44
A12	GROUND FLOOR FINISHES	12	A12	WASH AREA PLAN & SECTIONAL ELEVATIONS	45
A13	TOILET PLAN, SECTIONAL ELEVATIONS & TOILET SIGNAGE DETAIL	13	A13	SCHEDULE OF DOORS, WINDOWS & INTERIOR WALL DETAILS	46
A14	WASH AREA PLAN & SECTIONAL ELEVATIONS	14	A14	SCHEDULE OF WALL & CEILING FINISHES, LEDGE DETAIL & TYPICAL EAVES & END FLASHING SECTION DETAIL	47
A15	SCHEDULE OF DOORS, WINDOWS & INTERIOR WALL DETAILS	15	A15	STEP BLOW-UP PLAN, STEP CHB FOOTING DETAILS, LETTERHEAD & ROOM SIGNAGE DETAIL	48
A16	SCHEDULE OF WALL & CEILING FINISHES, LEDGE DETAIL & TYPICAL EAVES & END FLASHING SECTION DETAIL	16	S01	STRUCTURAL GENERAL NOTES	49
A17	STEP BLOW-UP PLAN, STEP CHB FOOTING DETAILS, LETTERHEAD & ROOM SIGNAGE DETAIL	17	S02	GROUND FLOOR FOUNDATION PLAN	50
S01	STRUCTURAL GENERAL NOTES	18	S03	GROUND FLOOR ROOF FRAMING PLAN	51
S02	GROUND FLOOR FOUNDATION PLAN	19	S04	TENSION LAP SPlice LENGTHS RECOMMENDED END HOOKS STANDARD STIRRUP/TIE HOOKS TYPICAL DETAIL OF WALL TO SLAB CONNECTION DEVELOPMENT LENGTHS FOR STANDARD HOOKS IN TENSION SEISMIC STIRRUP HOOKS	52
S03	GROUND FLOOR ROOF FRAMING PLAN	20	S05	SCHEDULE OF SLAB, TYPICAL COLUMN & FOOTING DETAILS, SCHEDULE OF COLUMNS & BEAMS, WALL FOOTING DETAIL & TYPICAL DETAIL OF BEAM & LINTEL BEAM	53
S04	TENSION LAP SPlice LENGTHS RECOMMENDED END HOOKS STANDARD STIRRUP/TIE HOOKS TYPICAL DETAIL OF WALL TO SLAB CONNECTION DEVELOPMENT LENGTHS FOR STANDARD HOOKS IN TENSION SEISMIC STIRRUP HOOKS	21	E01	GEN. NOTES & SPECIFICATIONS, LIGHTING LAYOUTS, MOUNTING DETAILS & LEGENDS	54
S05	SCHEDULE OF SLAB, TYPICAL COLUMN & FOOTING DETAILS, SCHEDULE OF COLUMNS & BEAMS, WALL FOOTING DETAIL & TYPICAL DETAIL OF BEAM & LINTEL BEAM	22	E02	SERVICE CONNECTION, POWER LAYOUTS, DETAIL OF PANEL BOARD & SCHEDULE OF LOADS	55
E01	GEN. NOTES & SPECIFICATIONS, LIGHTING LAYOUTS, MOUNTING DETAILS & LEGENDS	23	E03	FIRE DETECTION & ALARM SYSTEM LAYOUT, FDAS GEN. NOTES, LEGENDS & FDAS RISER DIAGRAM LAYOUT	56
E02	SERVICE CONNECTION, POWER LAYOUTS, DETAIL OF PANEL BOARD & SCHEDULE OF LOADS	24	P01	LOCATION MAP & SITE DEVELOPMENT PLAN	57
E03	FIRE DETECTION & ALARM SYSTEM LAYOUT, FDAS GEN. NOTES, LEGENDS & FDAS RISER DIAGRAM LAYOUT	25	P02	GEN. NOTES, LEGENDS & SEPTIC TANK DETAILS	58
P01	LOCATION MAP & SITE DEVELOPMENT PLAN	26	P03	LIQUID WASTE INTERCEPTOR & COLLECTION TRAY DETAILS	59
P02	GEN. NOTES, LEGENDS & SEPTIC TANK DETAILS	27	P04	SANITARY LAYOUT	60
P03	LIQUID WASTE INTERCEPTOR & COLLECTION TRAY DETAILS	28	P05	STORM DRAIN LAYOUT	61
P04	SANITARY LAYOUT	29	P06	ISOMETRIC VIEW SANITARY LAYOUT	62
P05	STORM DRAIN LAYOUT	30	P07	WATER SUPPLY LAYOUT	63
P06	ISOMETRIC VIEW SANITARY LAYOUT	31	P08	WATER SUPPLY ISOMETRIC LAYOUT	64
P07	WATER SUPPLY LAYOUT	32			
P08	WATER SUPPLY ISOMETRIC LAYOUT	33			

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS
AND HIGHWAYS
OFFICE OF THE
BUILDING OFFICIALS

DISTRICT / CITY / MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

MECHANICAL



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OHS

RECOMMENDING APPROVAL:

ATTY. GABRIEL E. BENITEZ
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:

AS SHOWN

DATE: JUNE 2025

SHEET NO:

A-01

PAGE NO:

01/64

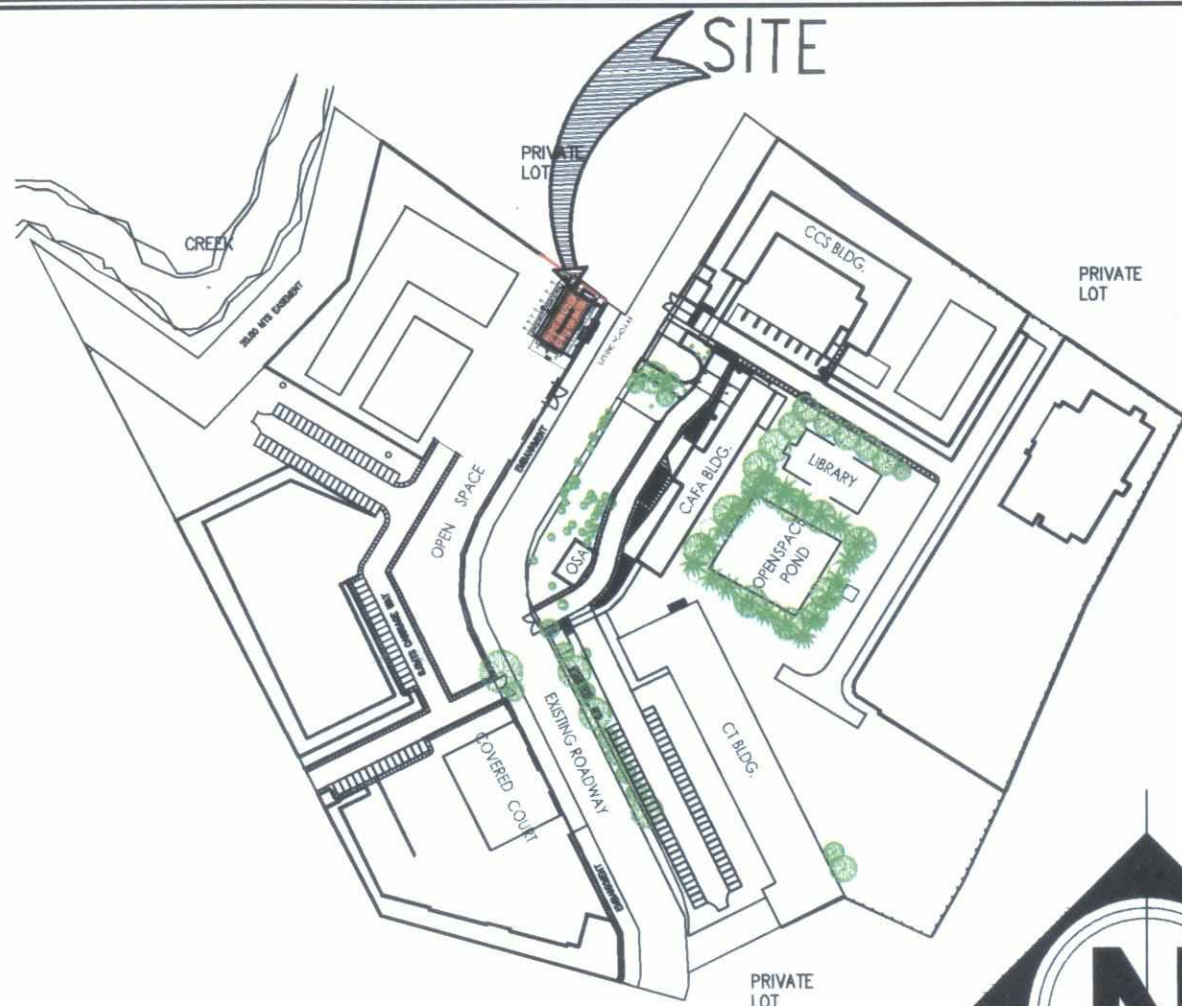
SAN ISIDRO CAMPUS



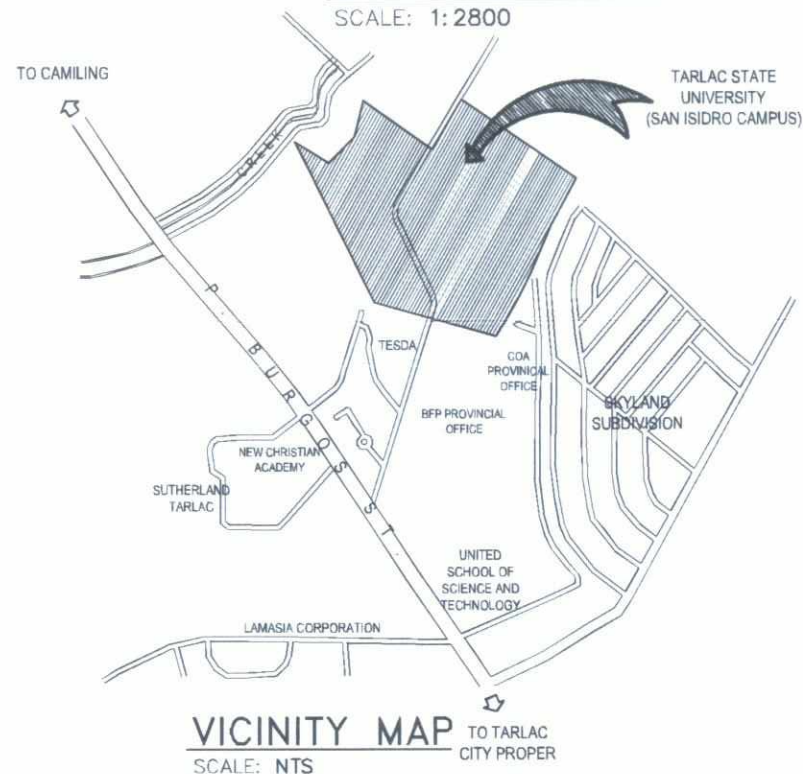


P E R S P E C T I V E

 TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:	
	CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS								AS SHOWN	A-03
	PROJECT LOCATION:	AR. ULYSSES B. CALUYA ARCHITECT, OFDM	AR. CHERRY L. FABIANES HEAD, OFDM-POU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ROMMEL M. HERNANDEZ DIRECTOR, OHS	ATTY. GUEPOLDA E. BONTAR VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO RESIDENT	DATE: JUNE 2025	PAGE NO: 03/64	



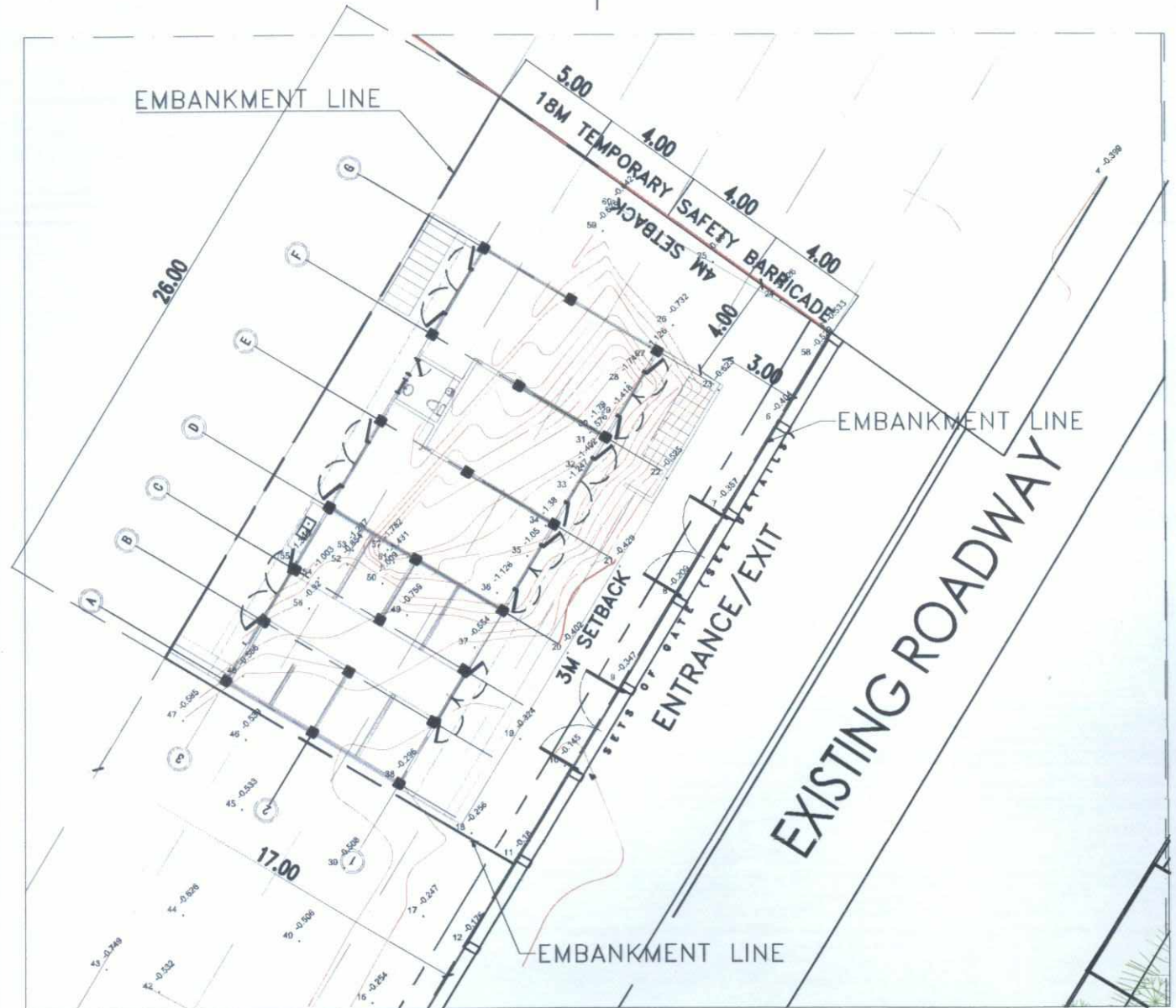
LOCATION MAP
SCALE: 1:2800



VICINITY MAP
SCALE: NTS

NOTE:

*USE PRE-PAINTED GI ROOF SHEET WITH STABLE FRAME FOR BARRICADE DURING CONSTRUCTION; DO NOT USE BLUESACK OR PLYWOOD.



EMBANKMENT PLAN
SCALE: 1:300



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUIS

RECOMMENDING APPROVAL:

ATTY. GUEDOLFO C. BENJON
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:

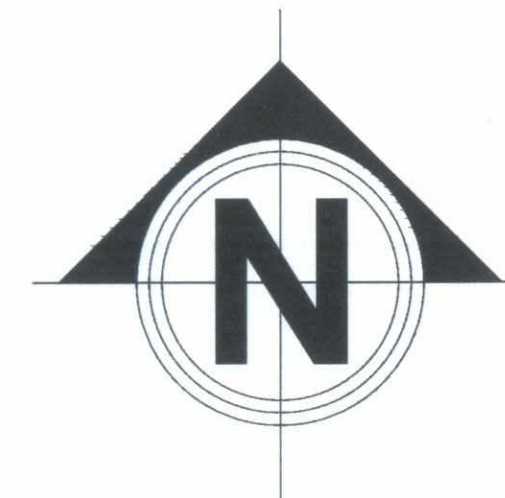
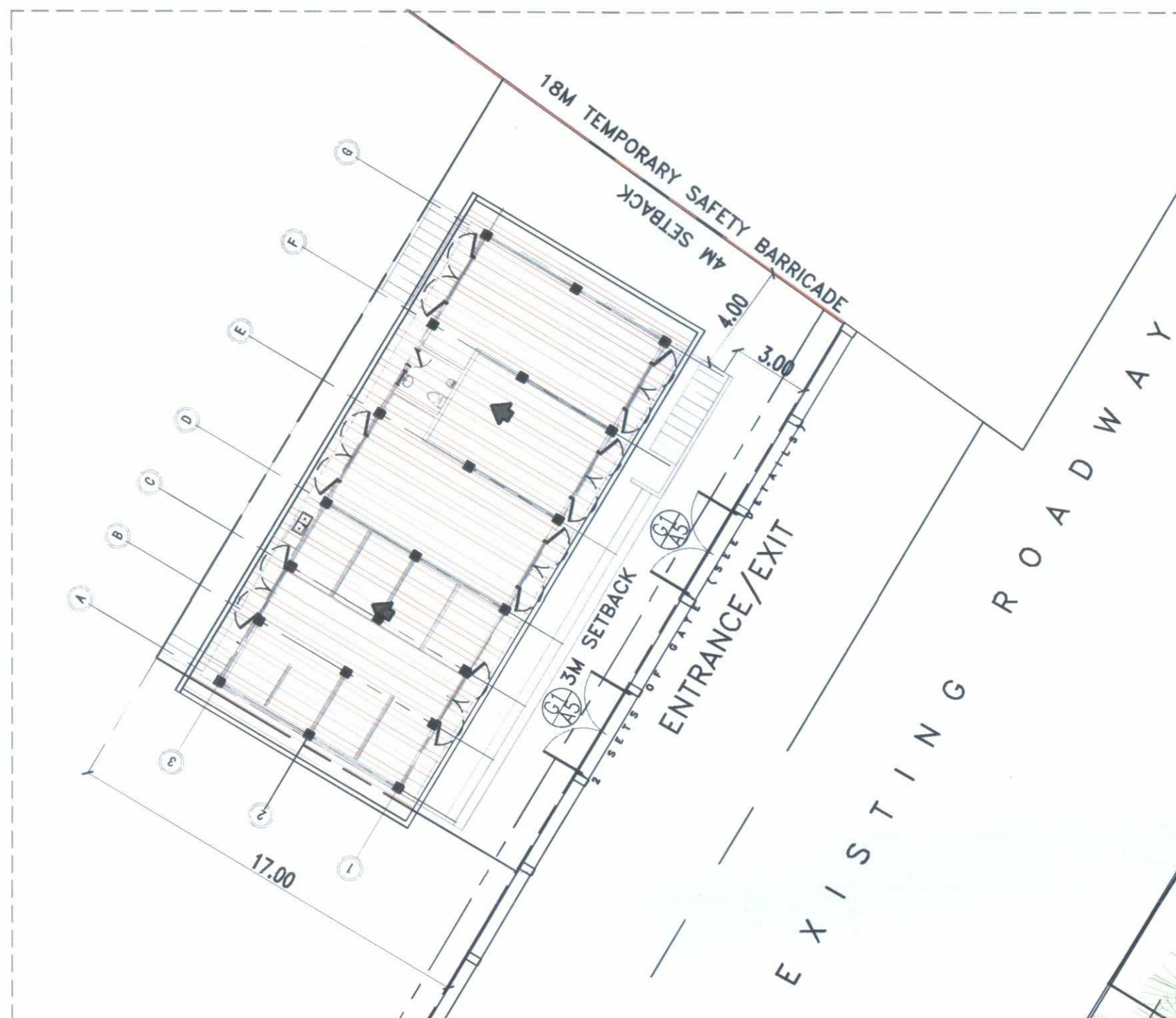
AS SHOWN
DATE: JUNE 2025

SHEET NO:

A-04
PAGE NO:
04/64

NOTE:

*USE PRE-PAINTED GI ROOF SHEET WITH STABLE FRAME FOR BARRICADE DURING CONSTRUCTION; DO NOT USE BLUESACK OR PLYWOOD.



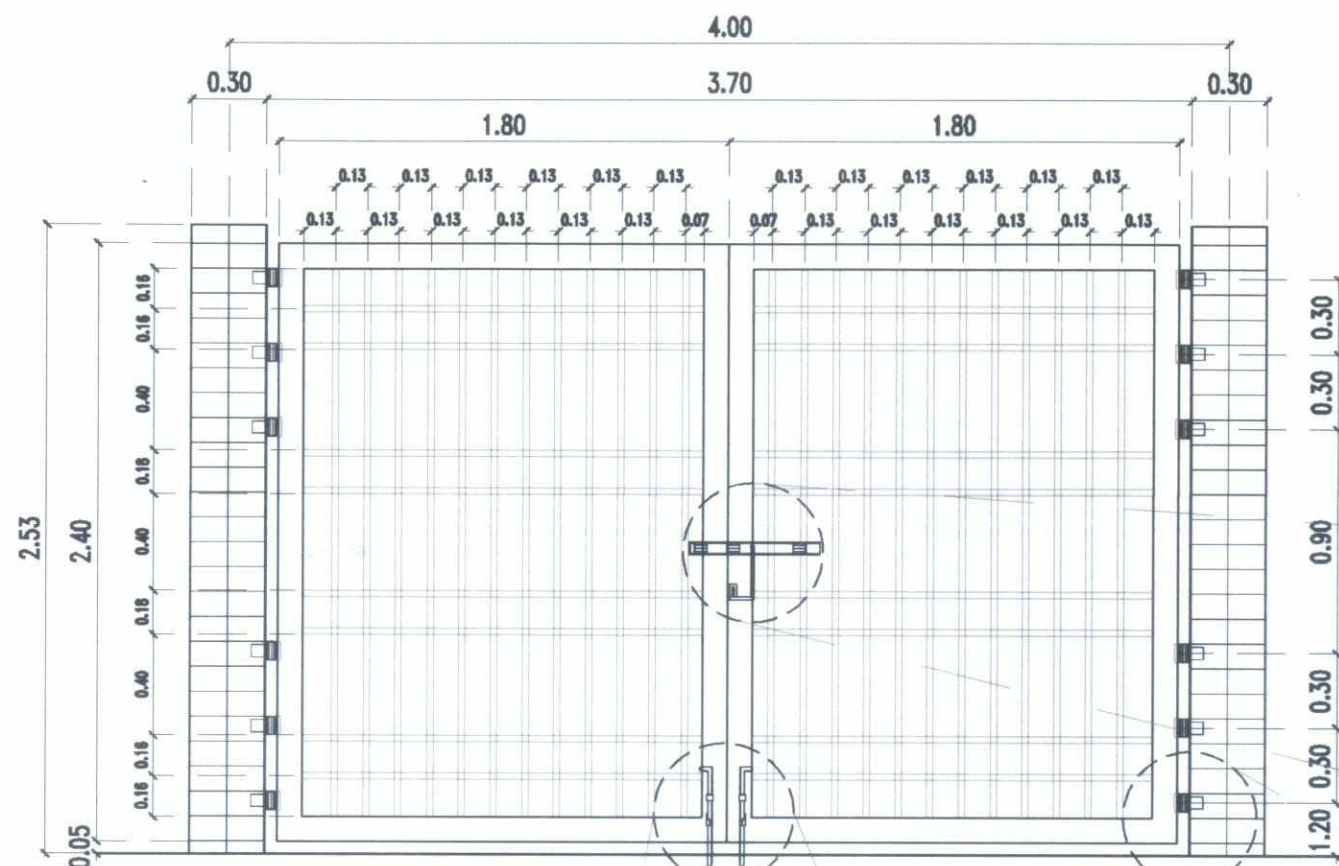
SITE DEVELOPMENT PLAN

SCALE: 1: 200 METERS

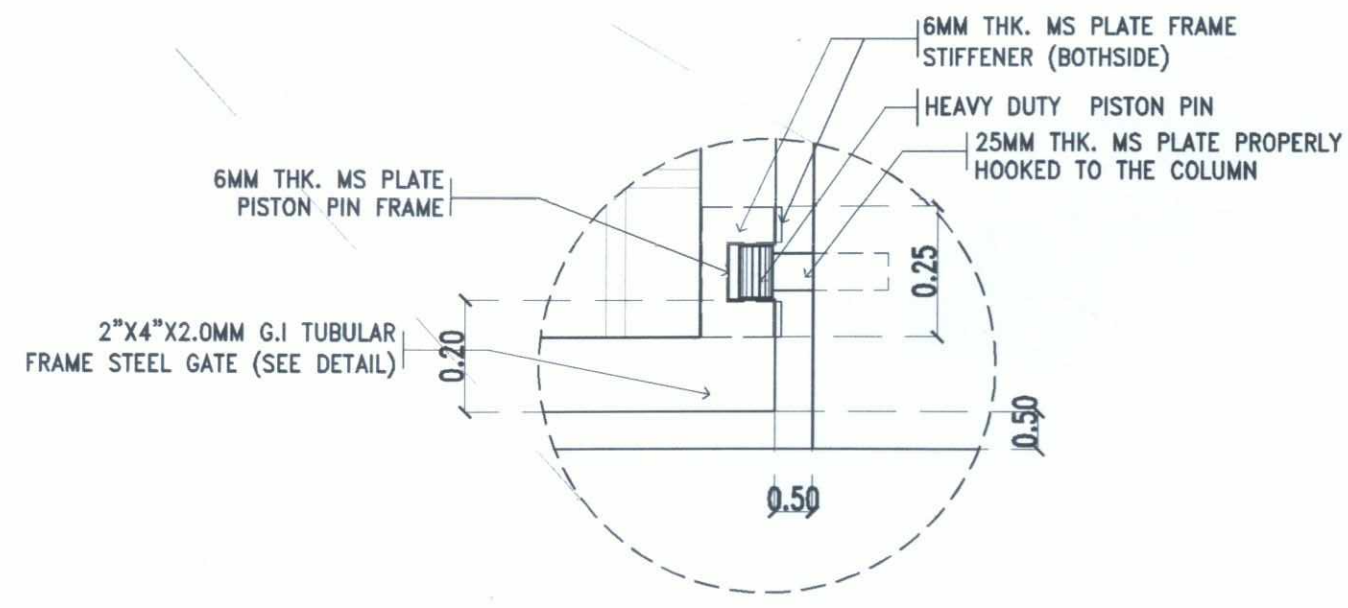
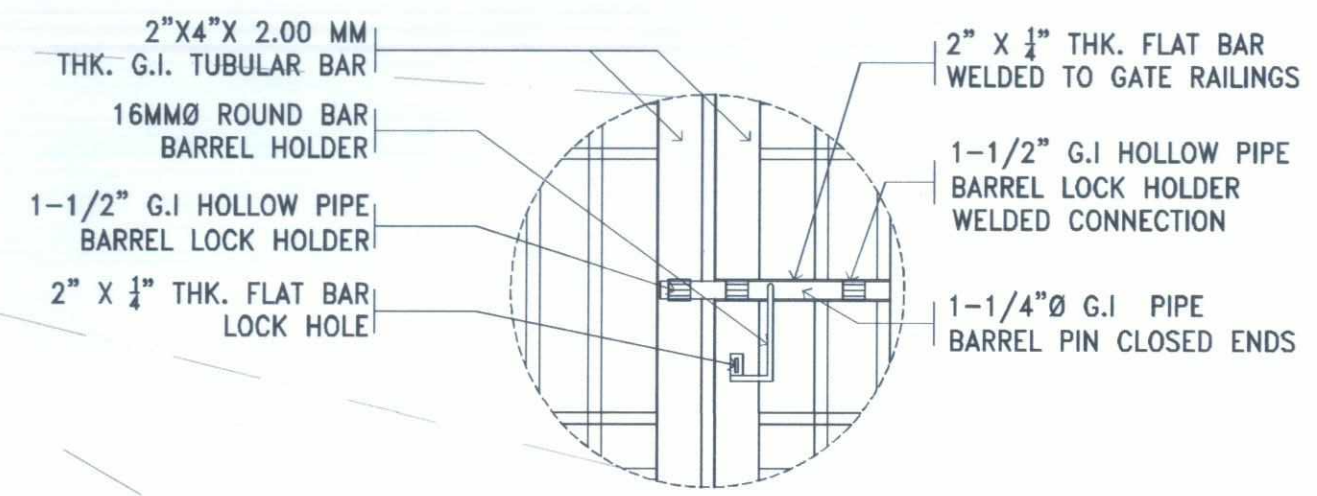
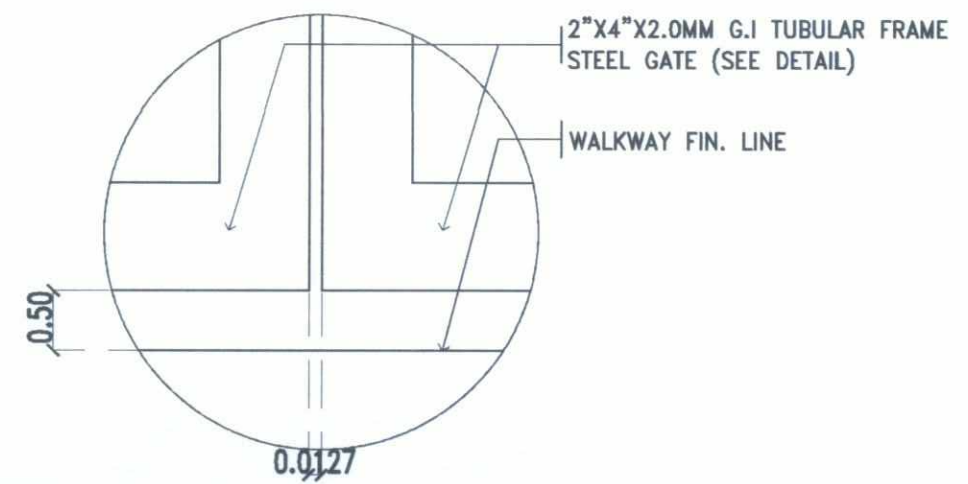
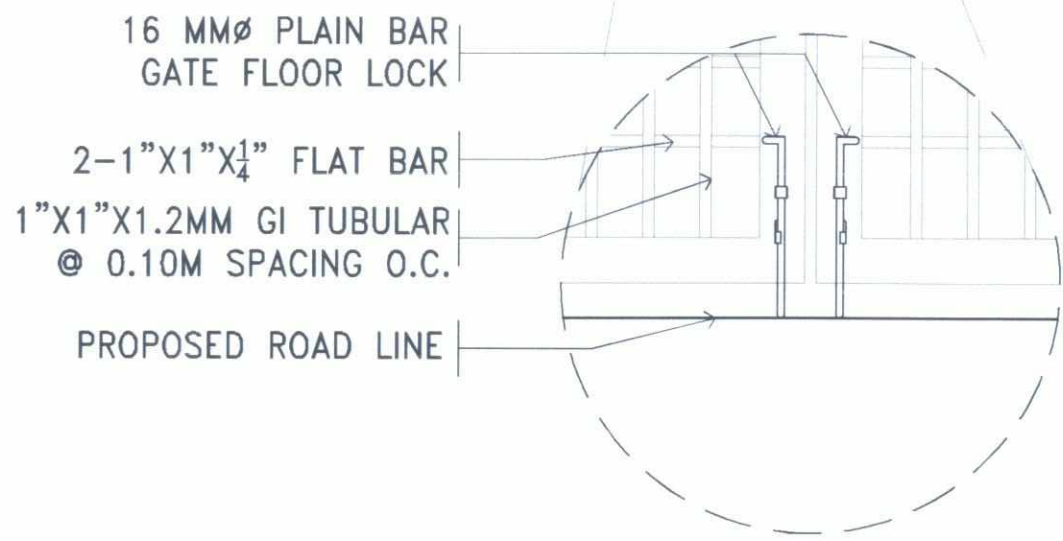


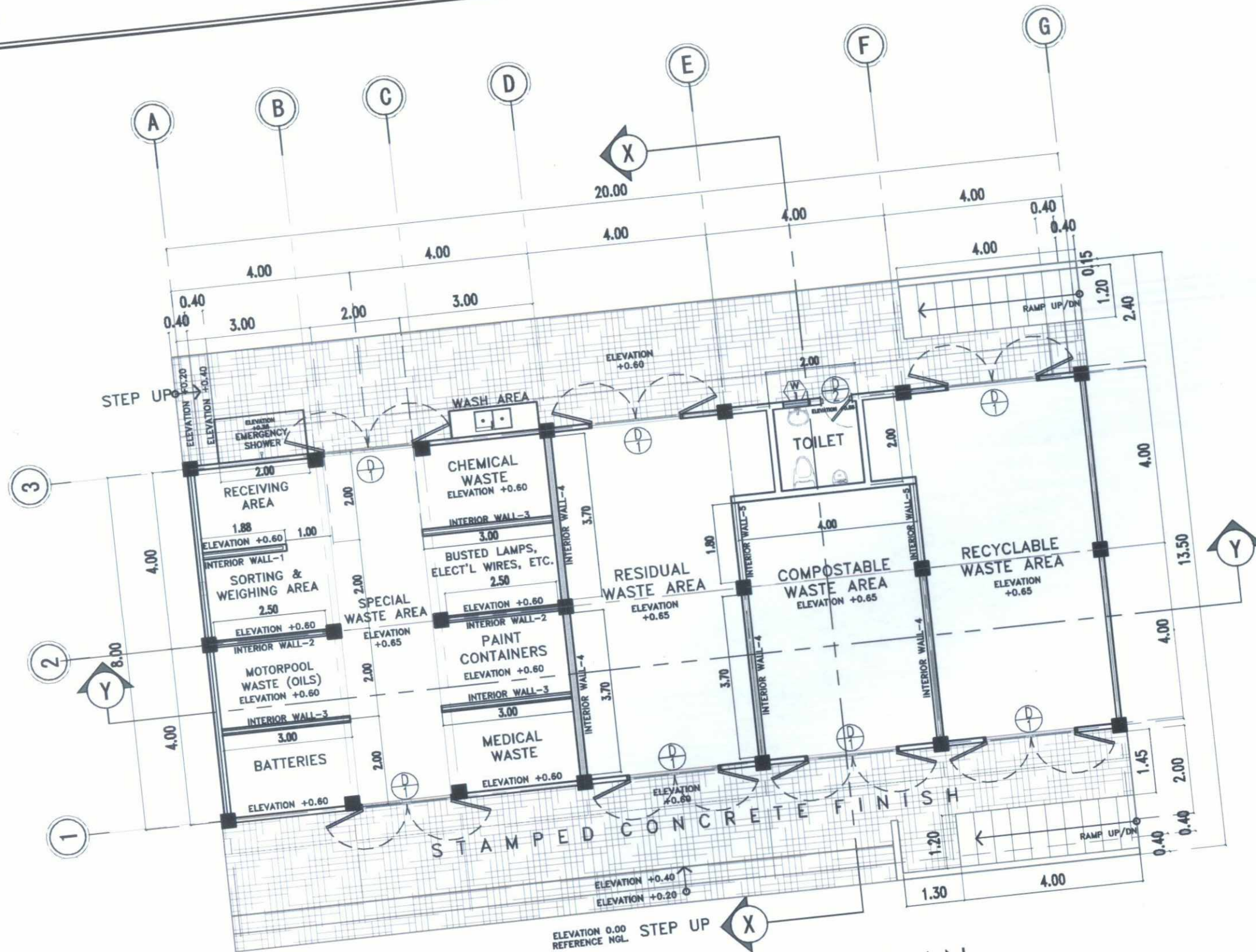
TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, OFDM	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ROMMEL M. HERNANDEZ DIRECTOR, OHS	RECOMMENDING APPROVAL: ATTY. GERARDO E. BENITEZ ATTY. WILMAR J. RAMOS, BSA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-05
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: JUNE 2025	PAGE NO: 05/64



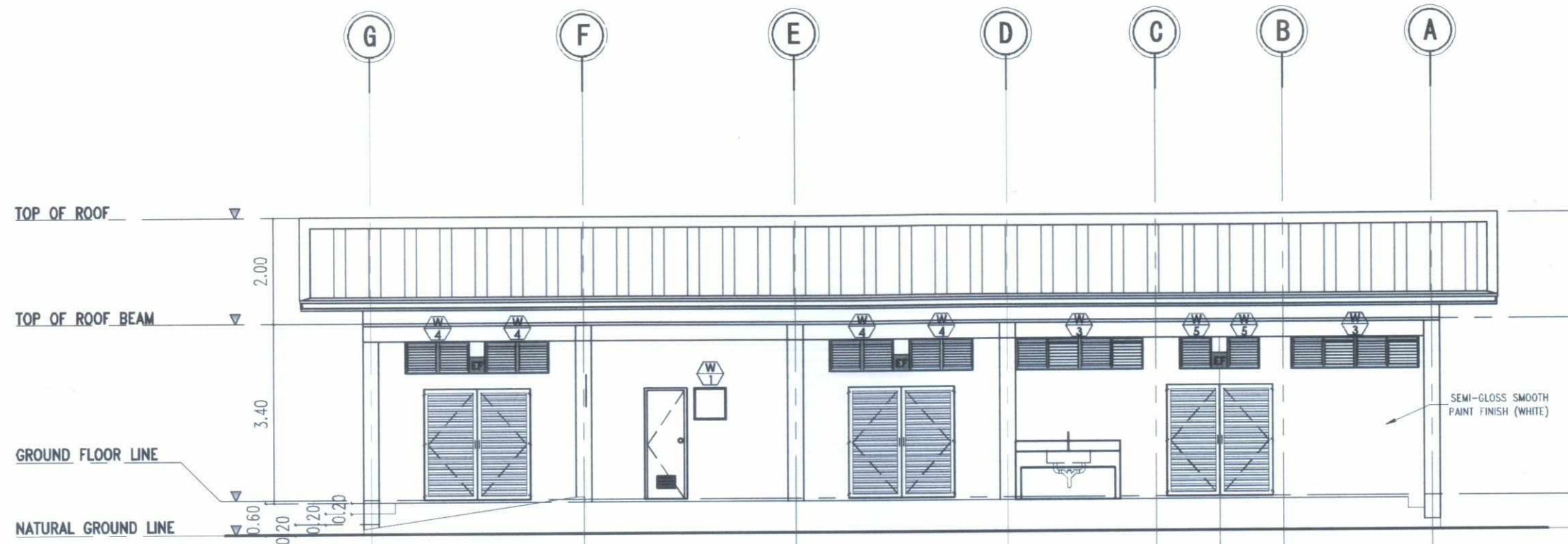
GATE ELEVATION & SPOT DETAILS (G1)
SCALE: 1:30





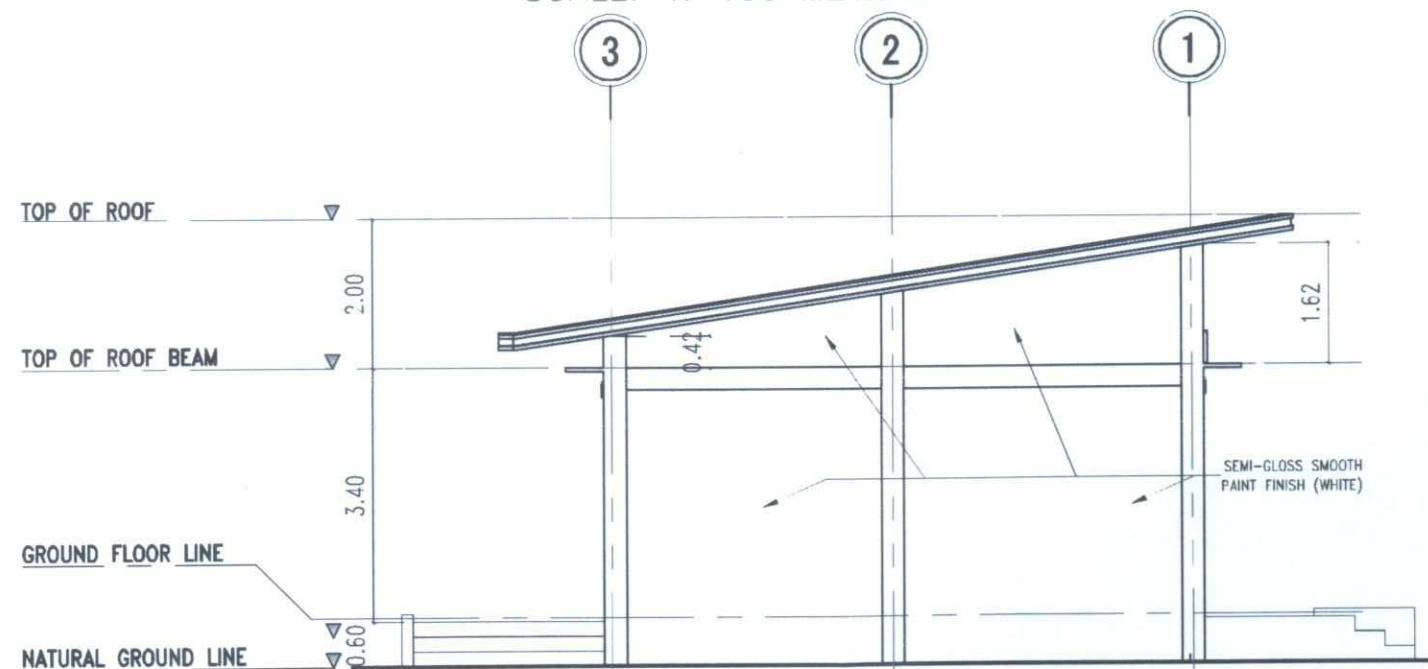
PROPOSED FLOOR PLAN SCALE: 1: 100 METERS





REAR ELEVATION

SCALE: 1: 100 METERS



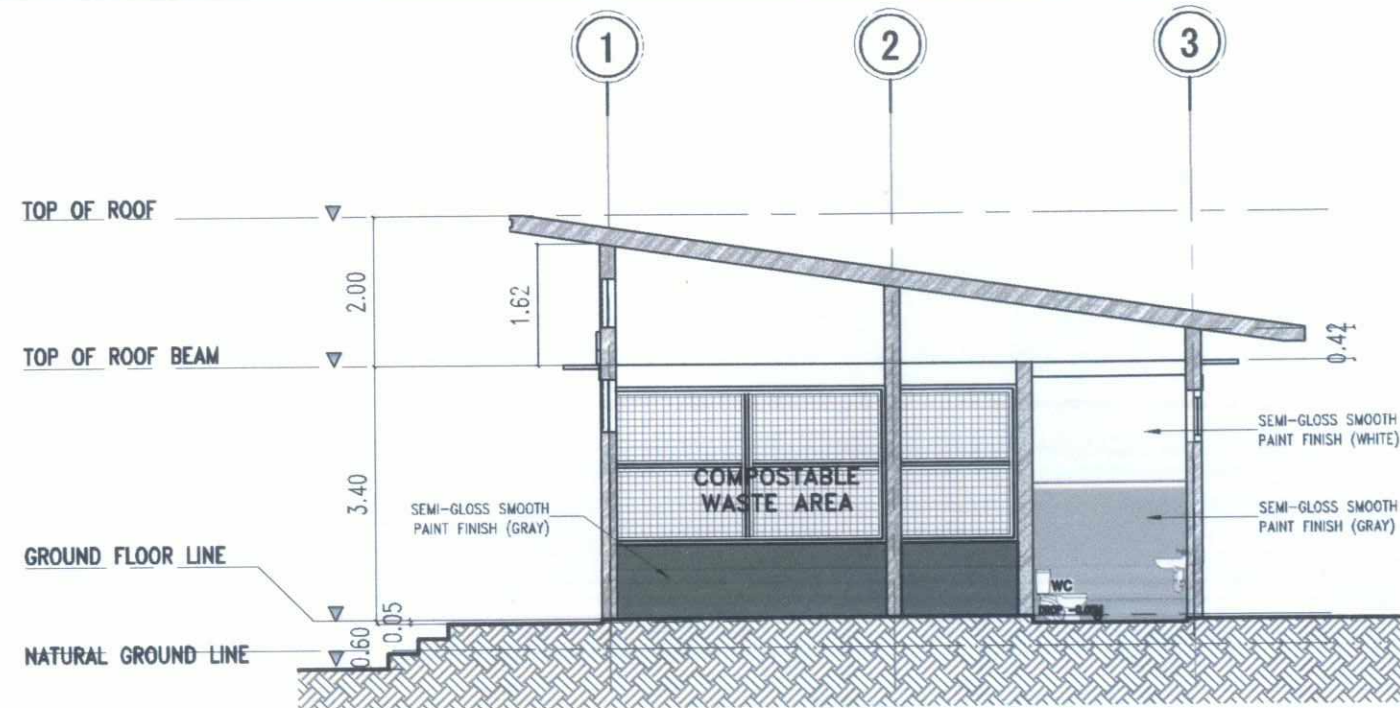
LEFT-SIDE ELEVATION

SCALE: 1: 100 METERS



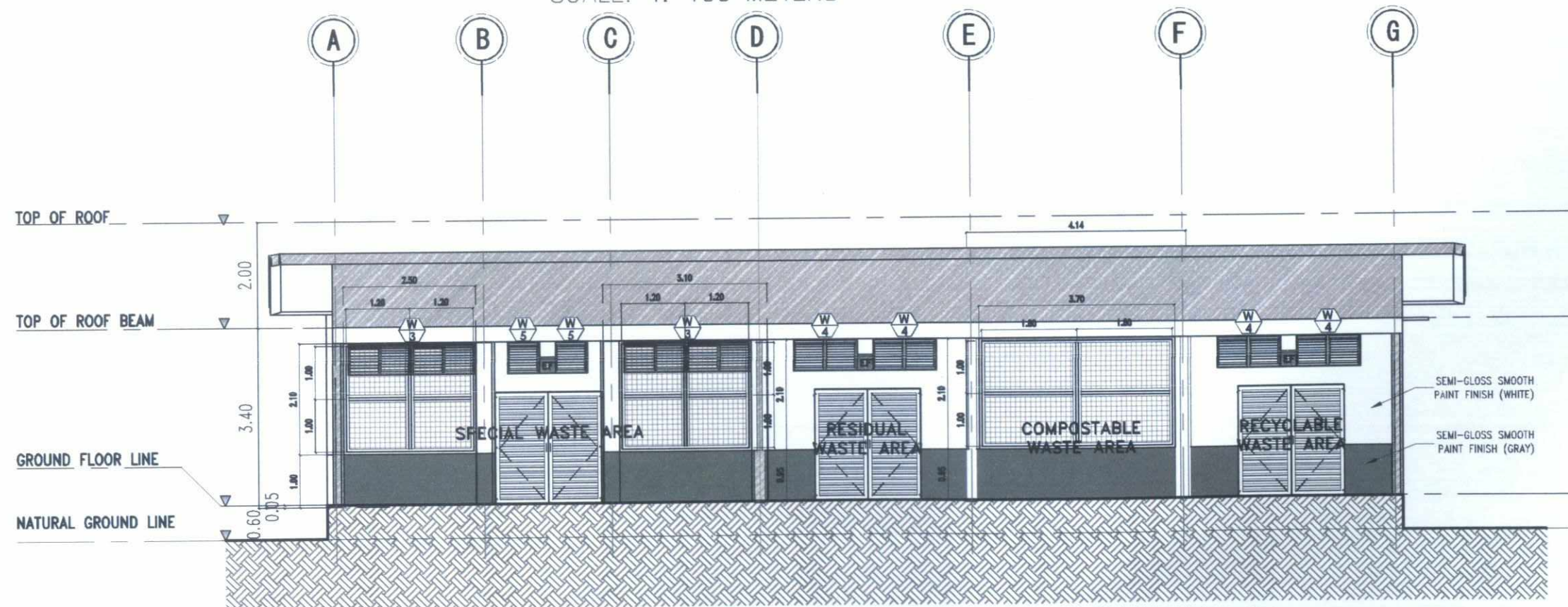
TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, OFDM	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ROMMEL M. HERNANDEZ DIRECTOR, OUIHS	RECOMMENDING APPROVAL: ATTY. CHEDOUGE BENITEZ VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-09
PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: JUNE 2025	PAGE NO: 09/64



CROSS SECTION THRU X-X

SCALE: 1: 100 METERS



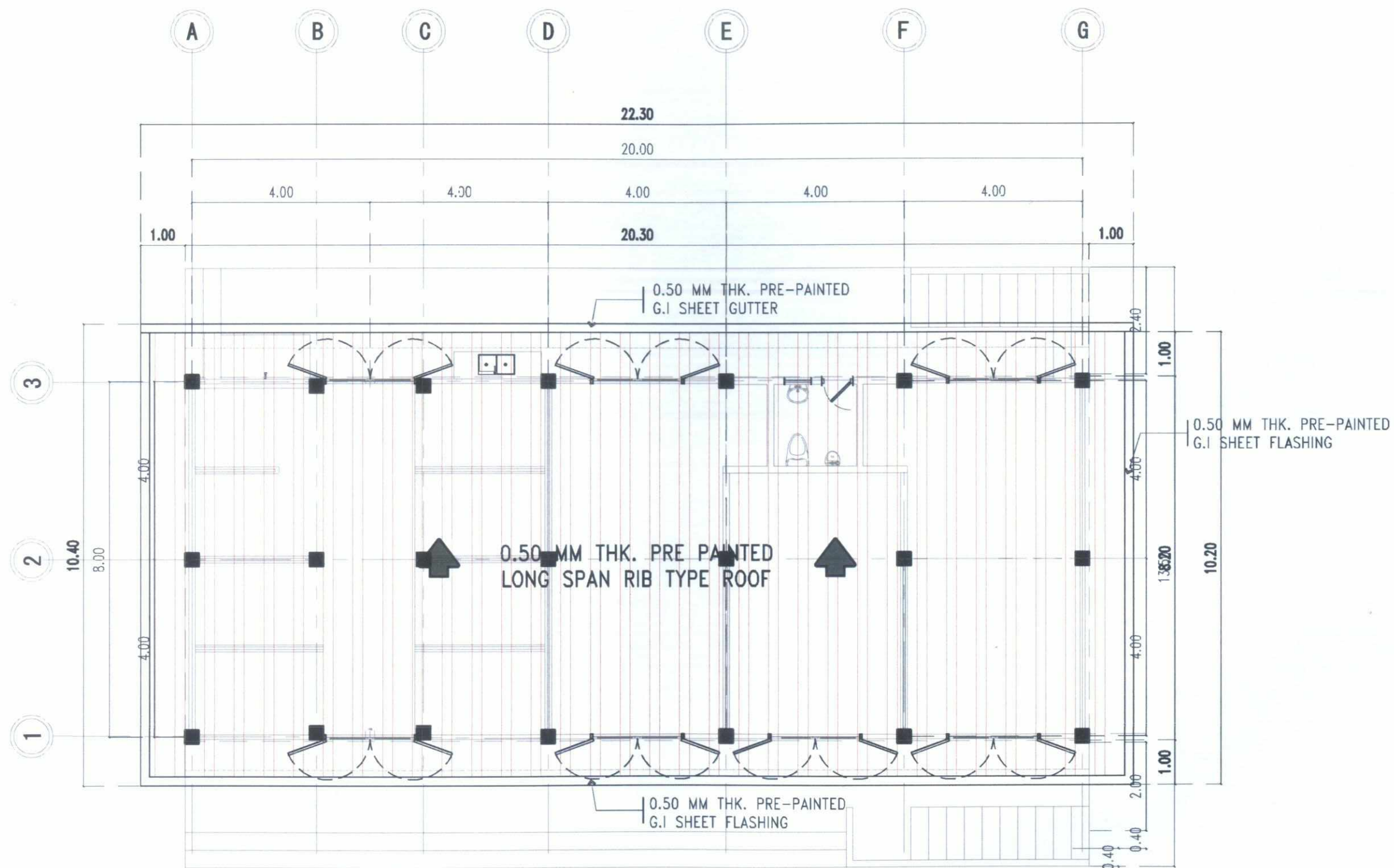
LONGITUDINAL SECTION THRU Y-Y

SCALE: 1: 100 METERS



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

PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, OFDM	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ROMMEL M. HERNANDEZ DIRECTOR, BUHS	RECOMMENDING APPROVAL: ATTY. GHEROLD A. DENITEZ ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: JUNE 2025	SHEET NO: A-10 PAGE NO: 10/64
--	--	---	---	---	--	---	--	--



PROPOSED ROOF PLAN

SCALE: 1: 100 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUGS

RECOMMENDING APPROVAL:

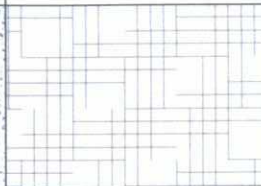
ATTY. GHEROLD A. BENITEZ
ATTY. WILMAR J. RAMOS, DBA
VP FOR ADMINISTRATION

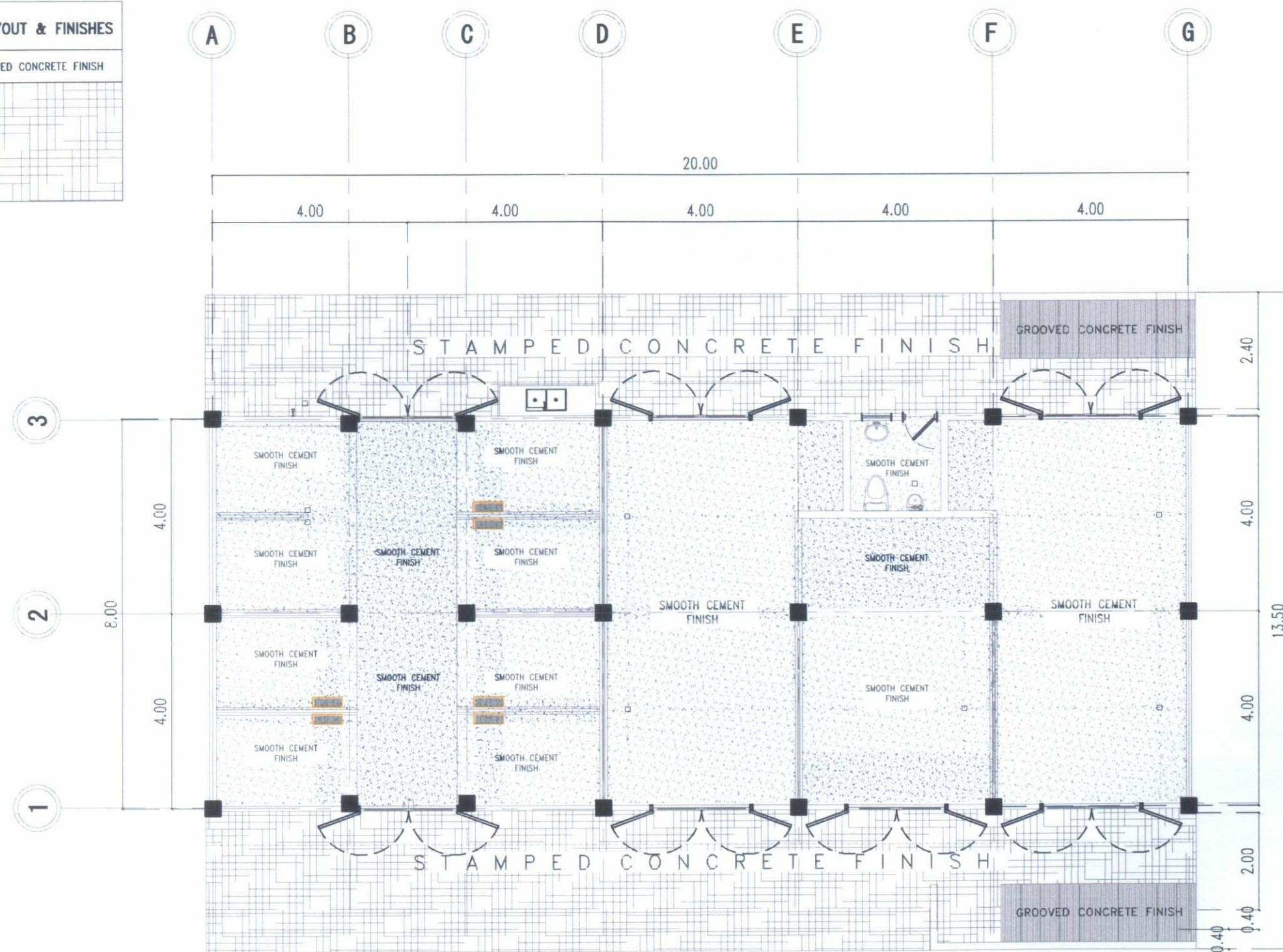
APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO.:
A-11
PAGE NO.:
11/64

SCHEDULE OF FLOOR TILE LAYOUT & FINISHES	
SMOOTH CEMENT FINISH	STAMPED CONCRETE FINISH
	



GROUND FLOOR FINISHES

SCALE: 1: 100 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALLUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUIS

RECOMMENDING APPROVAL:

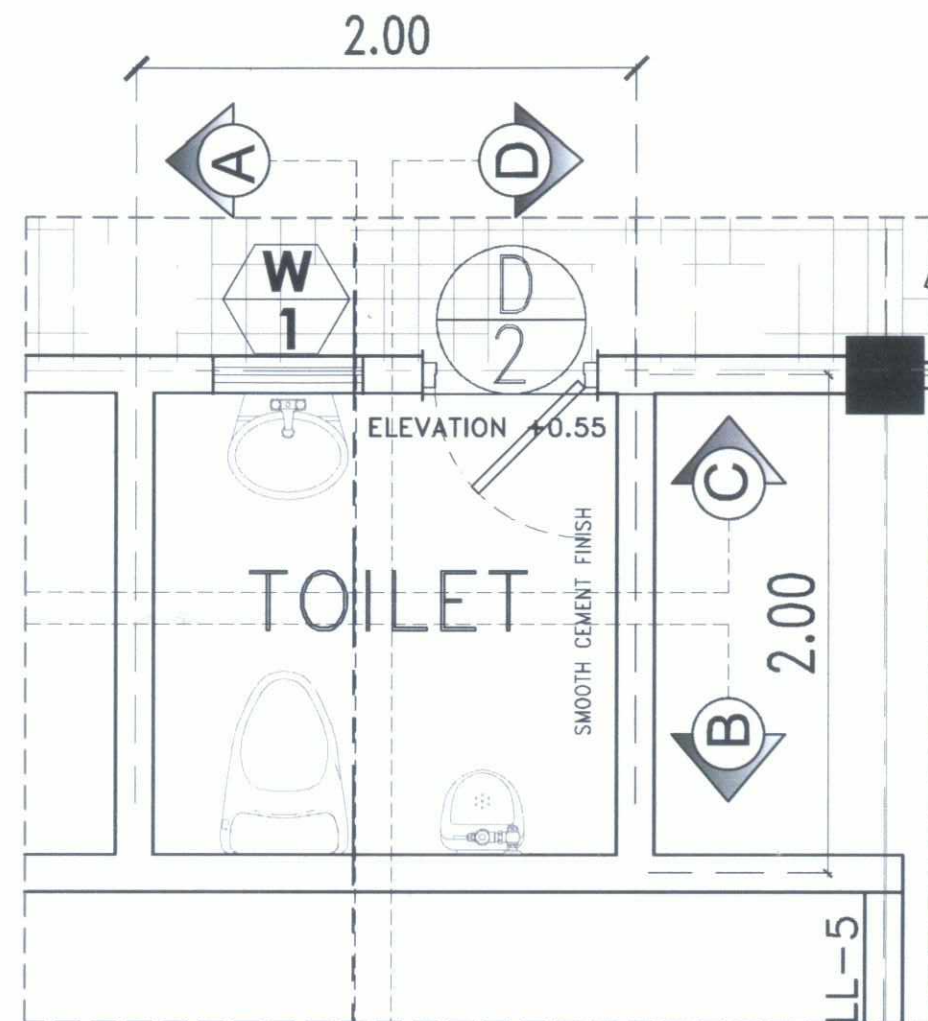
ATTY. GERALD S. CABANILLA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
A-12
PAGE NO:
12/64



BLOW-UP MALE TOILET FLOOR PLAN

SCALE: 1: 30 METERS



ACRYLIC CLEAR GLASS SIGNAGE

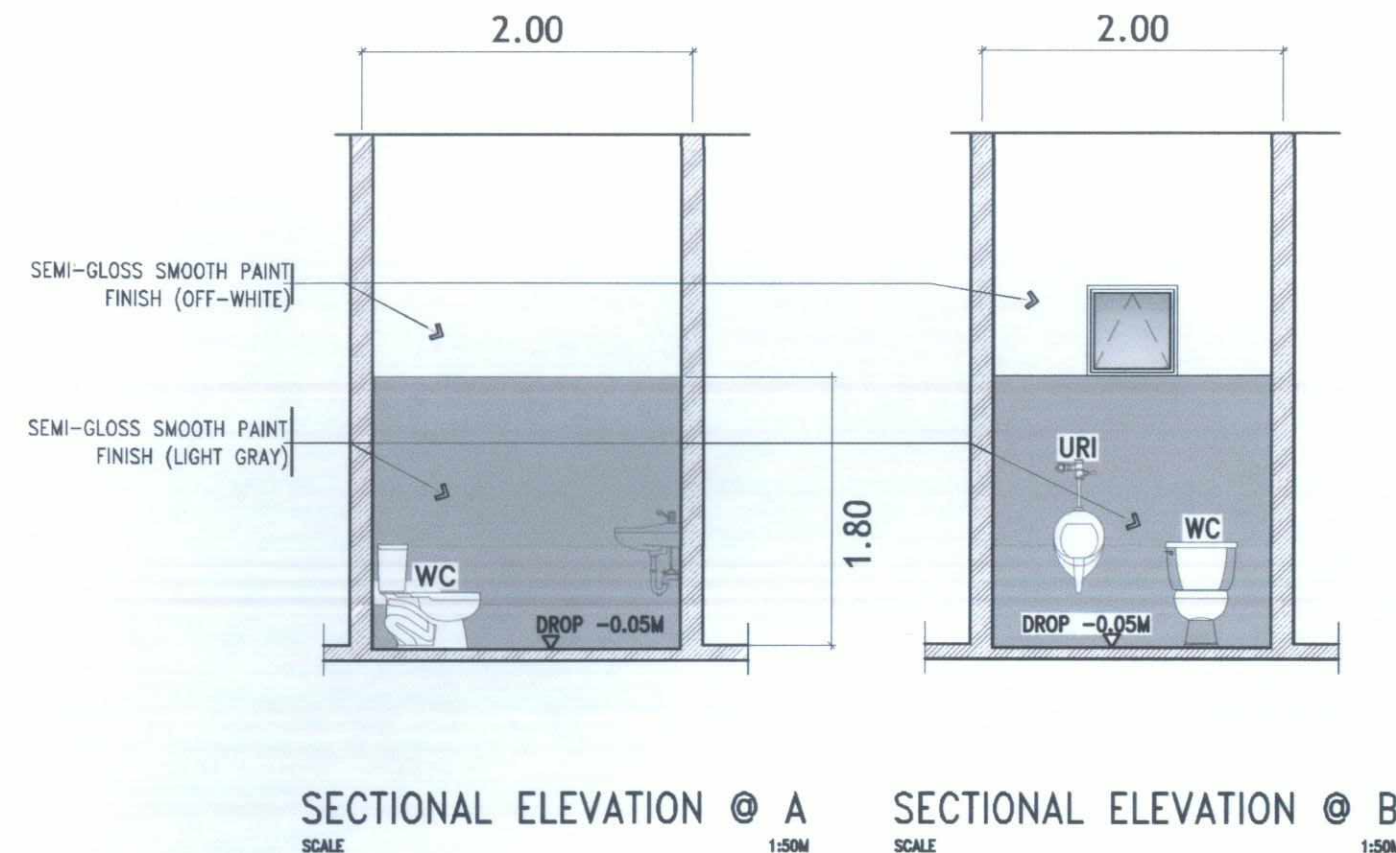
SIGNAGE SPECIFICATION:

PROPORTIONED LETTERING ON 3mm thk. x 150mm x 450mm
CLEAR ACRYLIC GLASS WITH 2pcs. 8mmx17mm ACRYLIC
GLASS FIXING BOLT SCREWS

NOTE: THE FONT STYLE, FONT SIZE, TEXT CONTENT
SHALL BE FOR APPROVAL.

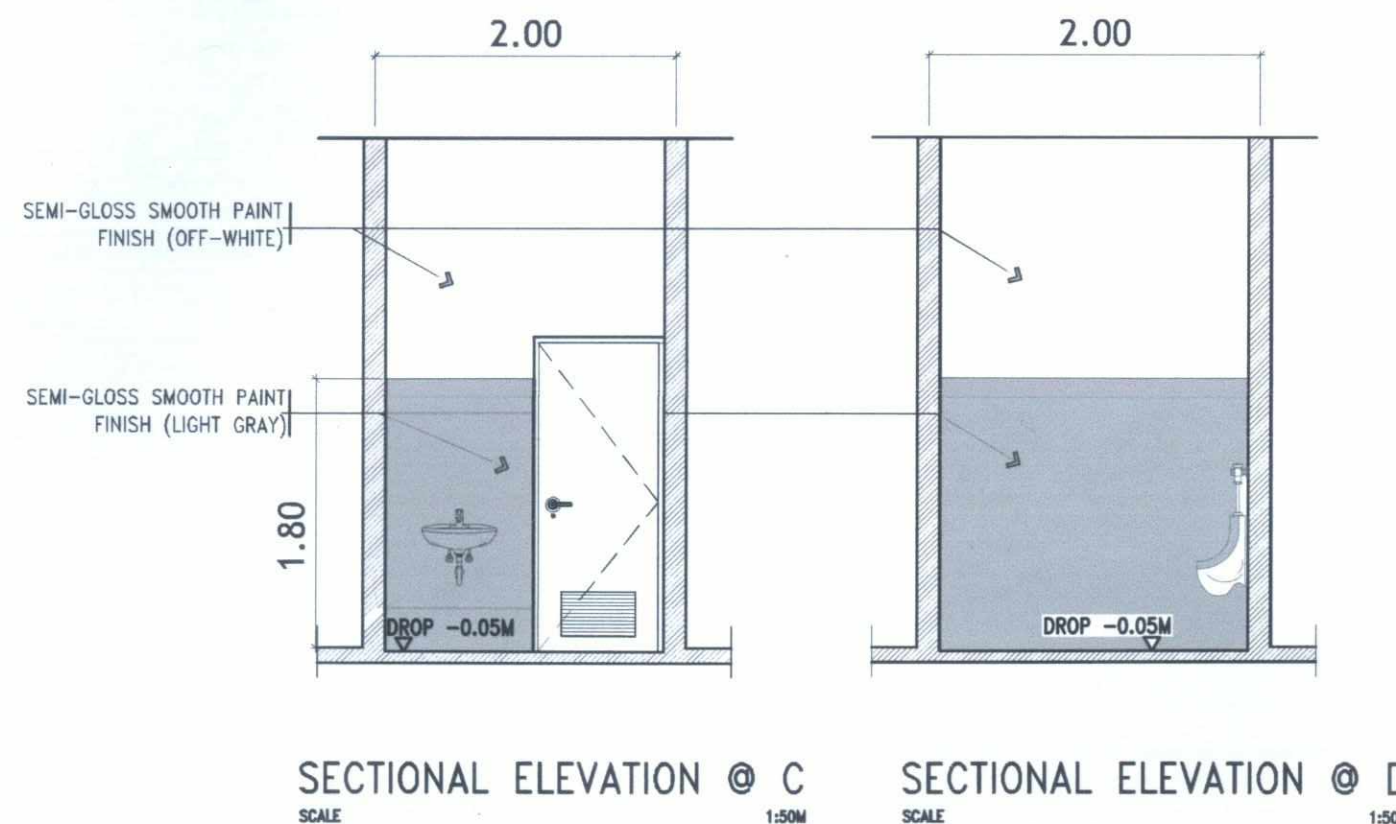
TOILET SIGNAGE DETAIL

SCALE
1:8 MTS



SECTIONAL ELEVATION @ A
SCALE 1:50M

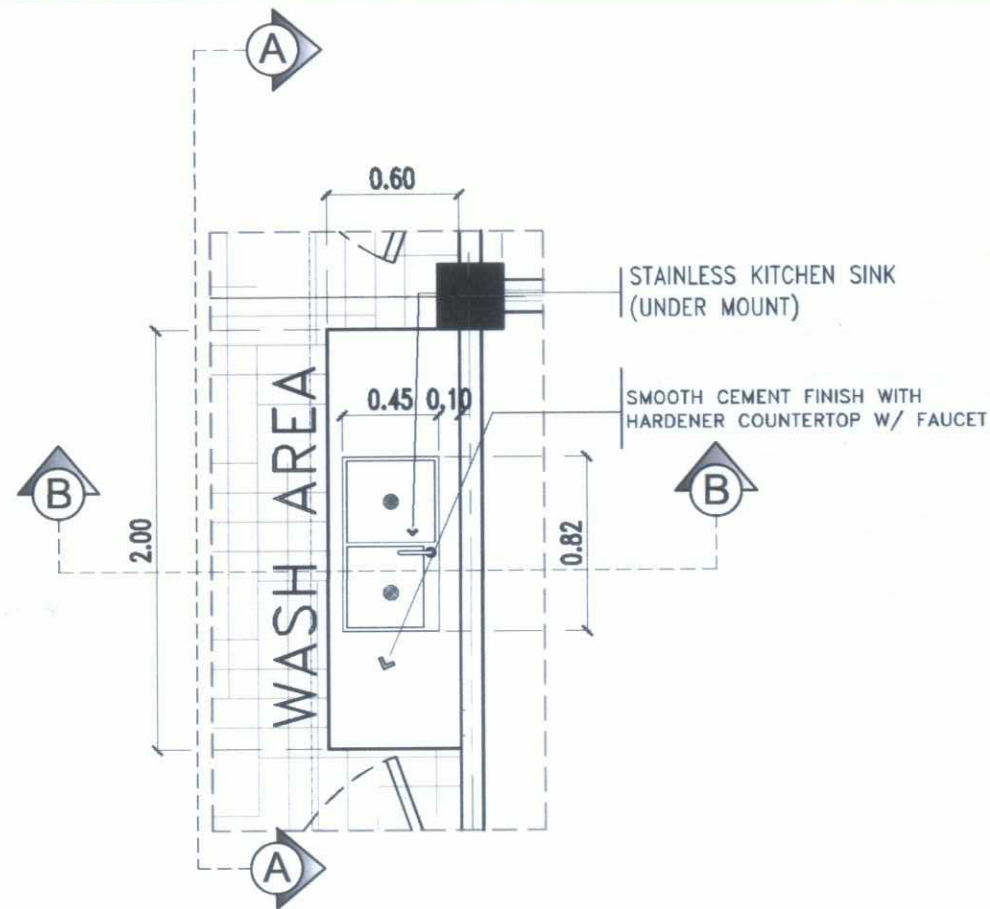
SECTIONAL ELEVATION @ B
SCALE 1:50M



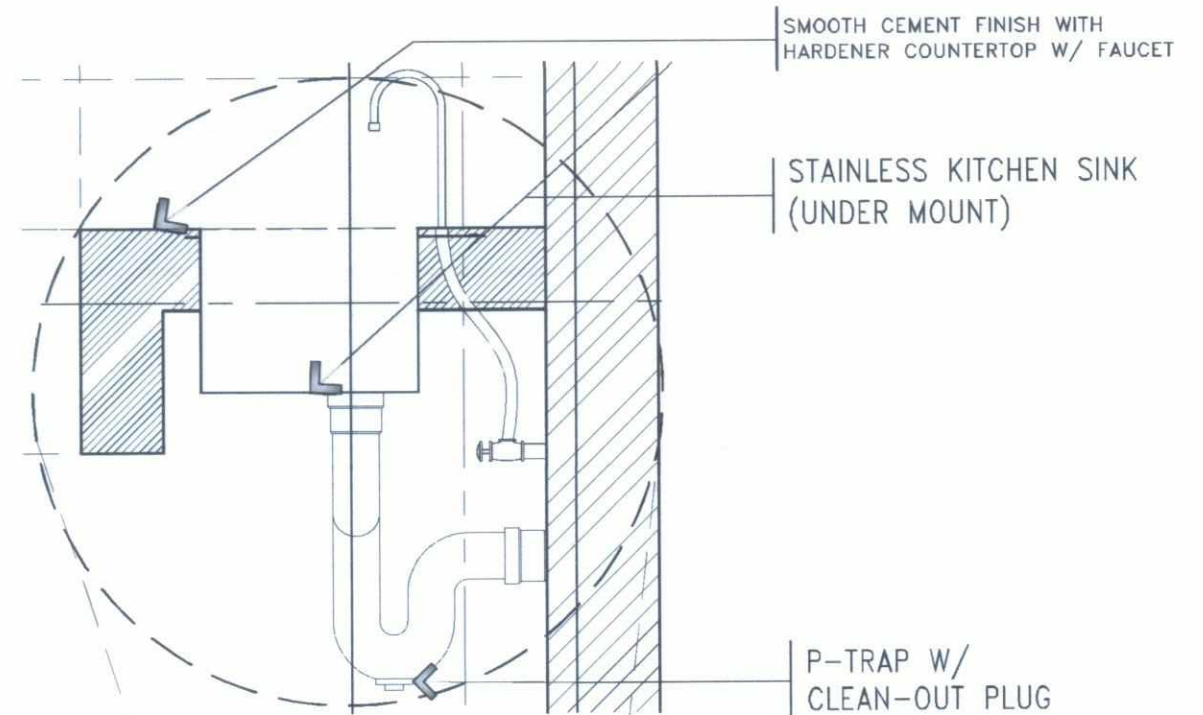
SECTIONAL ELEVATION @ C
SCALE 1:50M

SECTIONAL ELEVATION @ D
SCALE 1:50M

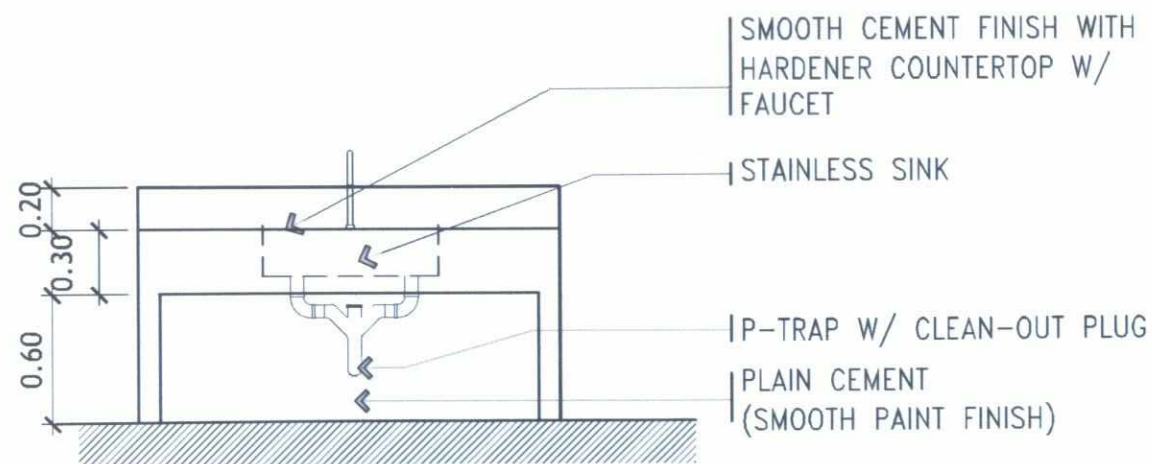
	TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS PROJECT LOCATION: SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, OFDM	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ROMMEL M. HERNANDEZ DIRECTOR, DUHS	RECOMMENDING APPROVAL: ATTY. GERALD C. BONILLA ATTY. WILMARK J. RAMOS, DBAG VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: JUNE 2025	SHEET NO.: A-13 PAGE NO.: 13/64
--	--	---	--	---	---	---	--	---	--	--



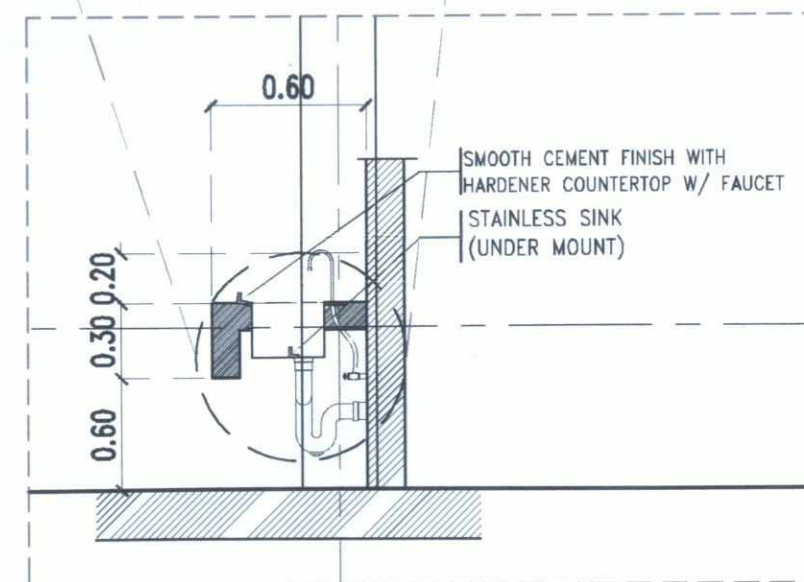
BLOW-UP WASH AREA PLAN
SCALE: 1: 40 METERS



KITCHEN SINK DETAIL
SCALE: 1:15 METERS



SECTIONAL ELEVATION A
SCALE: 1: 35 METERS



SECTIONAL ELEVATION B
SCALE: 1: 30 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AB. ULYSSES B. CALUYA
ARCHITECT, OFDM

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

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

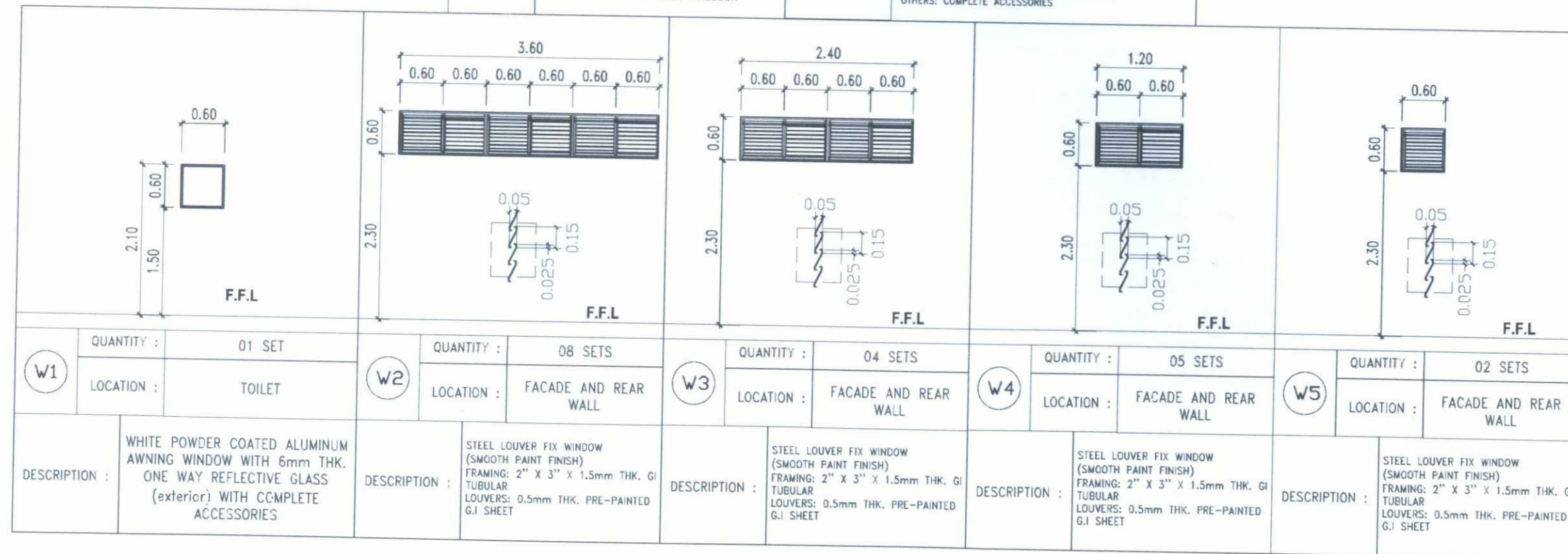
REQUESTING OFFICE:
DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUIS

RECOMMENDING APPROVAL:
ATTY. GABRIEL B. DELA CRUZ
ATTY. WILMARK RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
A-14
PAGE NO:
14/64



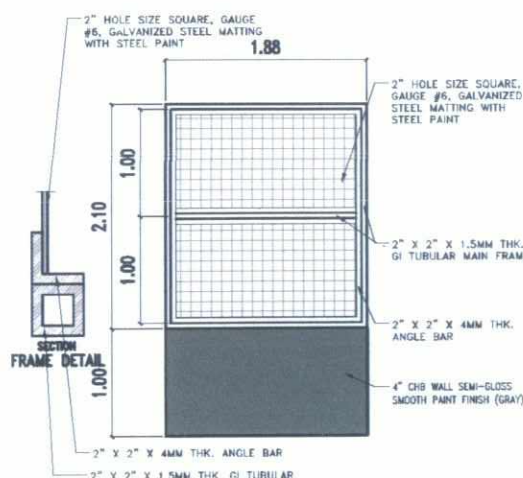
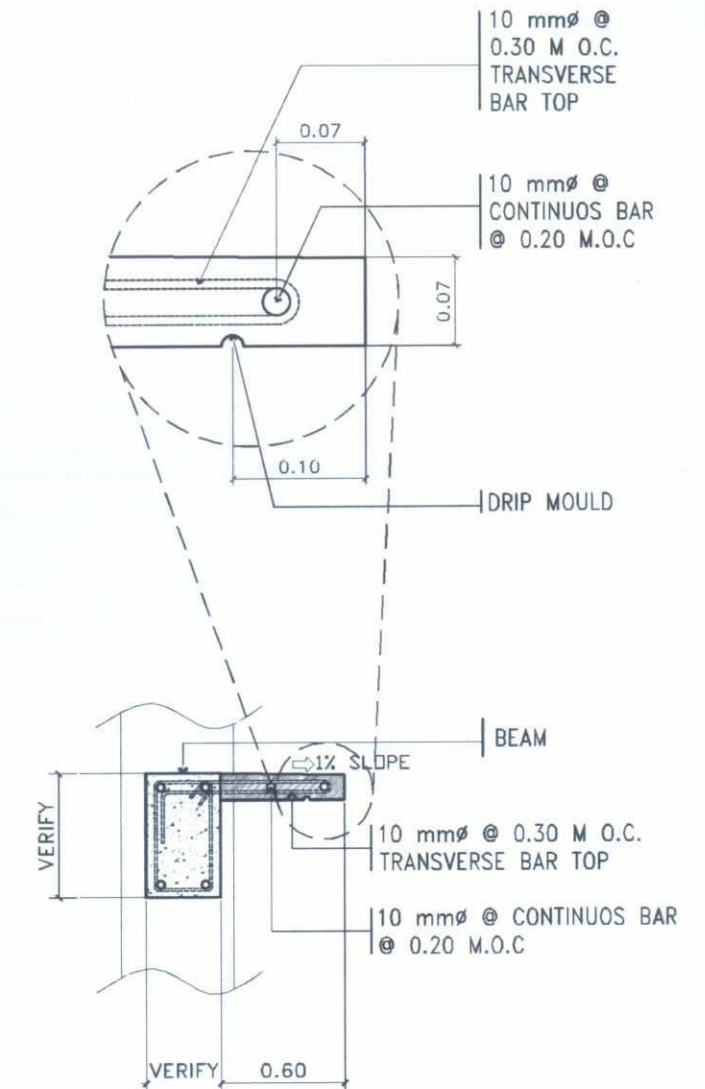
TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
	CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	 AR. JUYSSSES B. CALUYA ARCHITECT, OFDM	 AR. CHERRY L. FABIANES HEAD, OFDM-POU	 AR. ARLEN M. GUIEB DIRECTOR, OFDM	 DR. ROMMEL M. HERNANDEZ DIRECTOR, DUHS	 ATTY. GHERALD C. BENITEZ ATTY. WILMARK J. RAMOS, DBAG VP FOR ADMINISTRATION	 DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	A-15
	PROJECT LOCATION:							SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DATE: JUNE 2025

NOTE:
ALL STEEL MEMBERS SHALL BE
EPOXY PRIMER PAINTED.

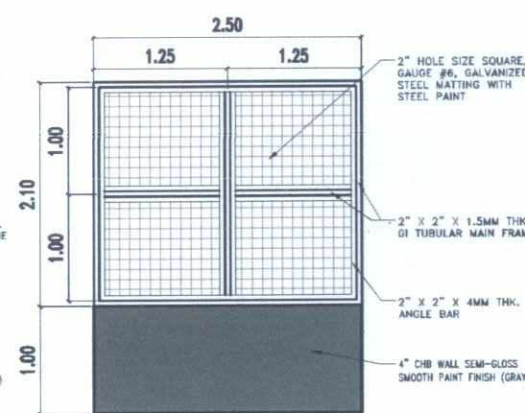
SCHEDULE OF WALL FINISHES

GROUND FLOOR OF FINISHES

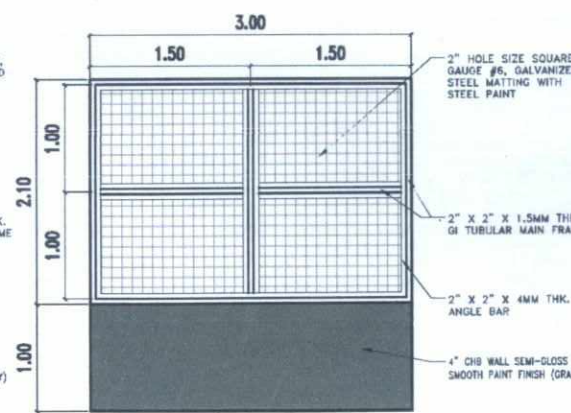
AREA / ROOM	WALL FINISHES (FACING THE FLOOR PLAN)				CEILING FINISHES
	N	S	E	W	FINISH
RECEIVING AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
SORTING & WEIGHING AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
SPECIAL WASTE AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
RESIDUAL WASTE AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
COMPOSTABLE WASTE AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
RECYCLABLE WASTE AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
FEMALE TOILET WITH SHOWER	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
MALE TOILET WITH SHOWER	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	



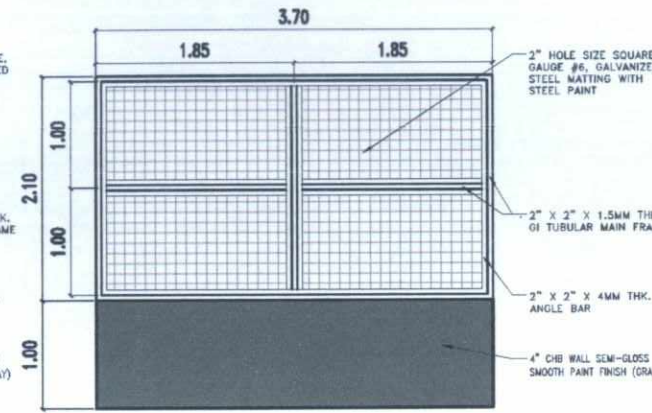
INTERIOR WALL-1
SCALE: 1: 70 METERS



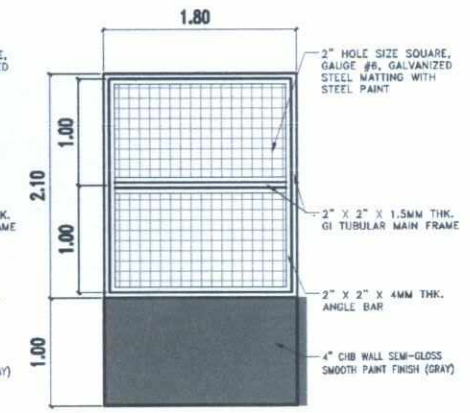
INTERIOR WALL-2
SCALE: 1: 70 METERS



INTERIOR WALL-3
SCALE: 1: 70 METERS



INTERIOR WALL-4
SCALE: 1: 70 METERS



INTERIOR WALL-5
SCALE: 1: 70 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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

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

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

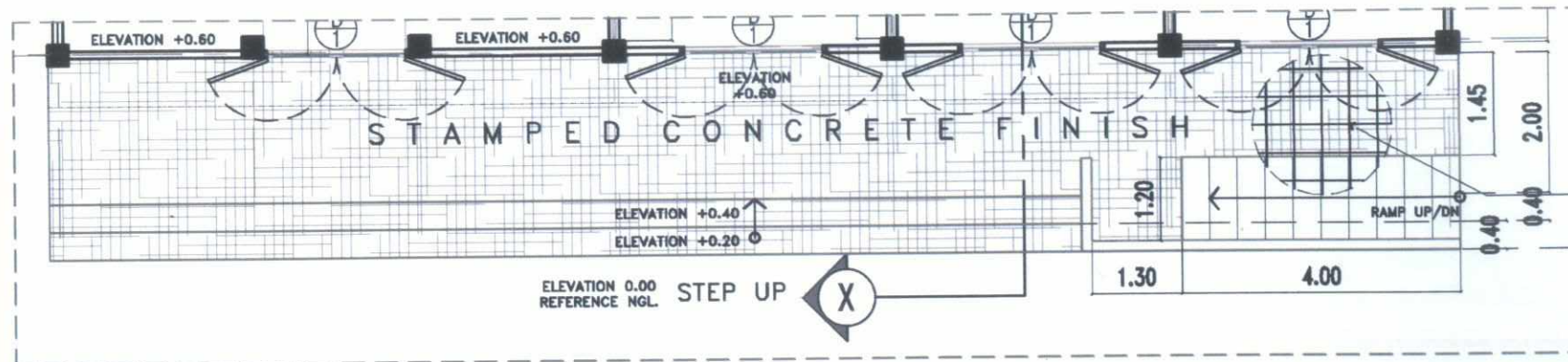
REQUESTING OFFICE:
DR. ROMMEL M. HERNANDEZ
DIRECTOR, OHS

RECOMMENDING APPROVAL:
ATTY. VILMAR C. RAMOS, DBAG
VP FOR ADMINISTRATION

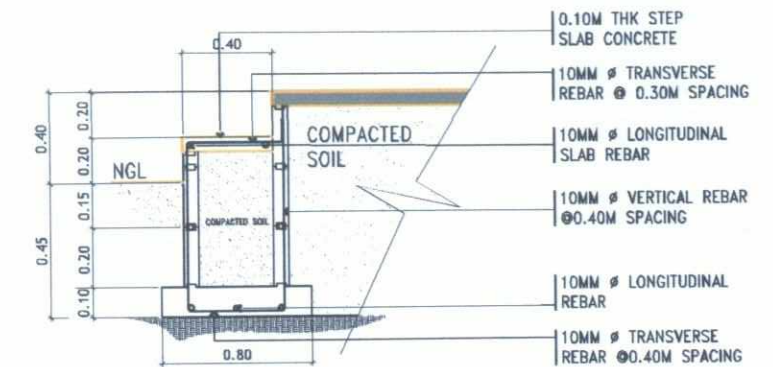
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

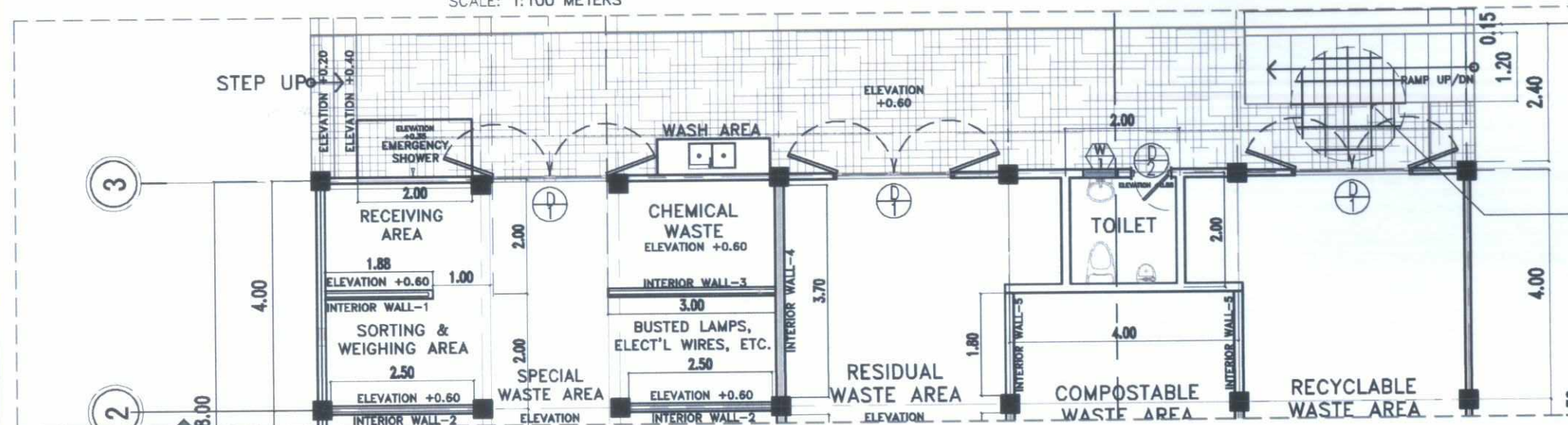
SHEET NO:
A-16
PAGE NO:
16/64



FRONT STEP BLOW-UP PLAN
SCALE: 1:100 METERS



TYPICAL STEP CHB FOOTING DETAILS
SCALE: 1: 25 METERS



REAR STEP BLOW-UP PLAN
SCALE: 1:100 METERS

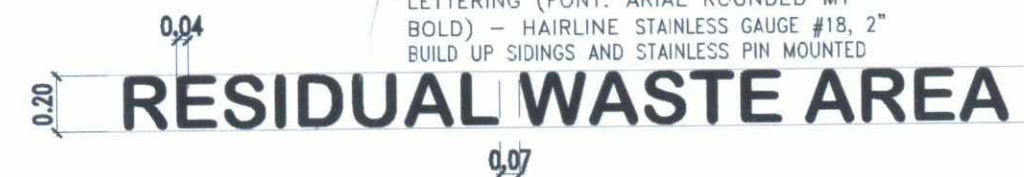
0.10M THK SLAB WITH
10mm Ø DEFORMED BAR
SPACED @ 0.40M.O.C.B.W.



LETTER HEAD DETAIL
SCALE: 1:50 METERS



TYPICAL ROOM SIGNAGE DETAIL
SCALE: 1:30 METERS



TYPICAL ROOM SIGNAGE DETAIL
SCALE: 1:25 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OHS

RECOMMENDING APPROVAL:

ATTY. GHEORGE C. BONITO
ATTY. WILMAR L. RAMOS, DEAN
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:

AS SHOWN

PAGE NO:

DATE: JUNE 2025

SHEET NO:

A-17

PAGE NO:

17/64

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 | 3000 PSI | 3/4 in. | 4 in. |
| COLUMNS & PEDESTALS | 3000 PSI | 3/4 in. | 4 in. |
| BEAMS & GIRDERS | 3000 PSI | 3/4 in. | 4 in. |
| SUSPENDED SLABS | 3000 PSI | 3/4 in. | 4 in. |
| SLAB ON GRADE | 2500 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 THE 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 MATERIAL 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 (276 MPa) |
| 12mmØ & ABOVE | GRADE 40 (276 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 | 20mm |
| 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/TIES 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:

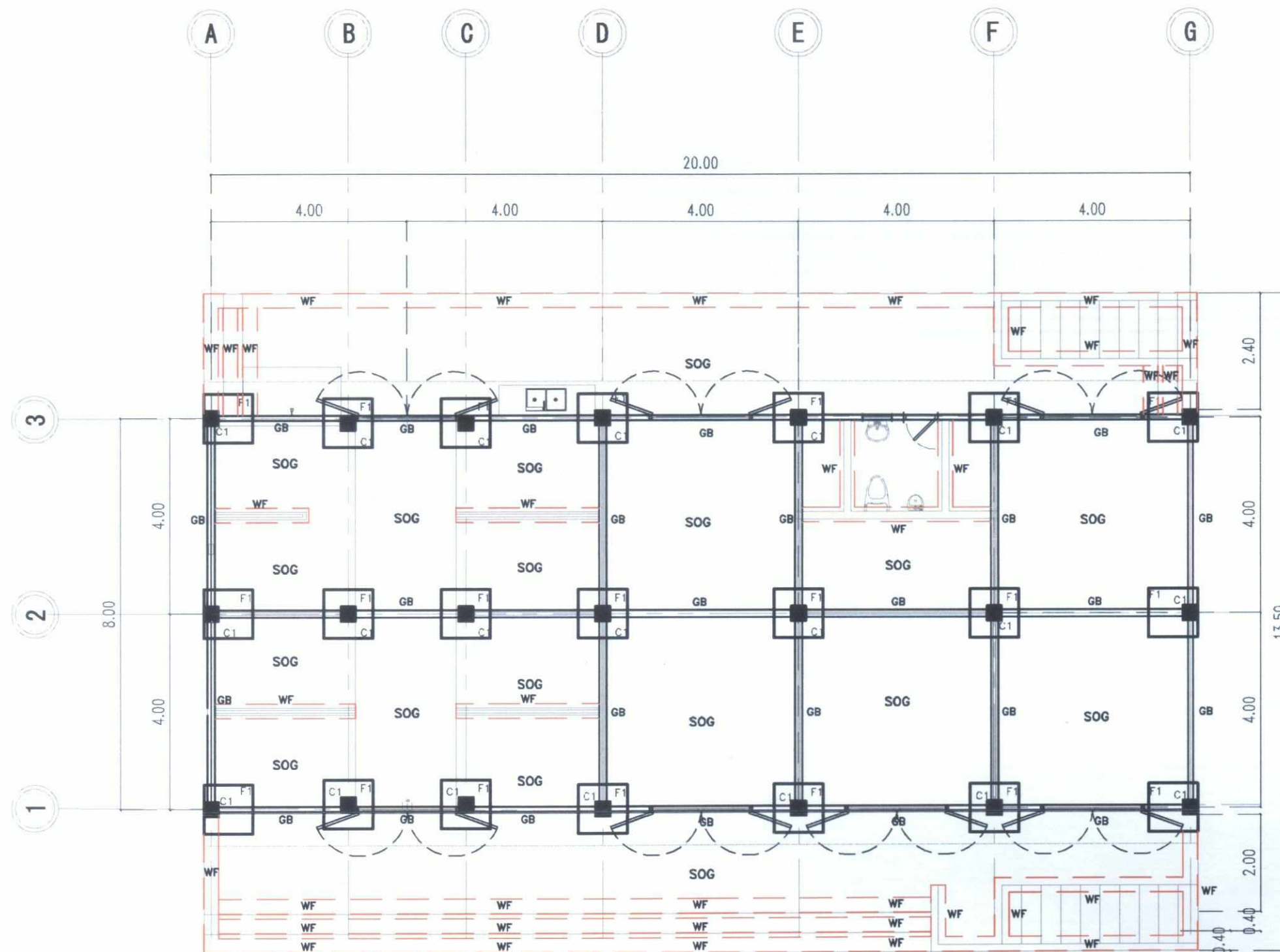
THICKNESS	HORIZONTAL REINFORCEMENT	VERTICAL REINFORCEMENT
100mm	10mmØ @ 600mm O.C.	10mmØ @ 600mm O.C.
125mm	10mmØ @ 600mm O.C.	10mmØ @ 600mm O.C.
150mm	10mmØ @ 400mm O.C.	10mmØ @ 400mm O.C.
200mm	10mmØ @ 400mm O.C.	10mmØ @ 400mm O.C.

- 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 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.

 	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
	CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS							AS SHOWN	S-01
	PROJECT LOCATION:								PAGE NO:
	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	AR. ULYSSES B. CALUYA ARCHITECT-OFDM	AR. CHERRY L. FABIANES HEAD, OFDM-POU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ROMMEL M. HERNANDEZ DIRECTOR, DUHS	ATTY. GILBERT S. CHAVEZ ATTY. WILMAR V. RAMOS, DBA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	DATE: MAY 2025	18/66



GROUND FLOOR FOUNDATION PLAN
SCALE: 1: 100 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUGS

RECOMMENDING APPROVAL:

ATTY. GHERARDO C. BENITEZ
VP FOR ADMINISTRATION

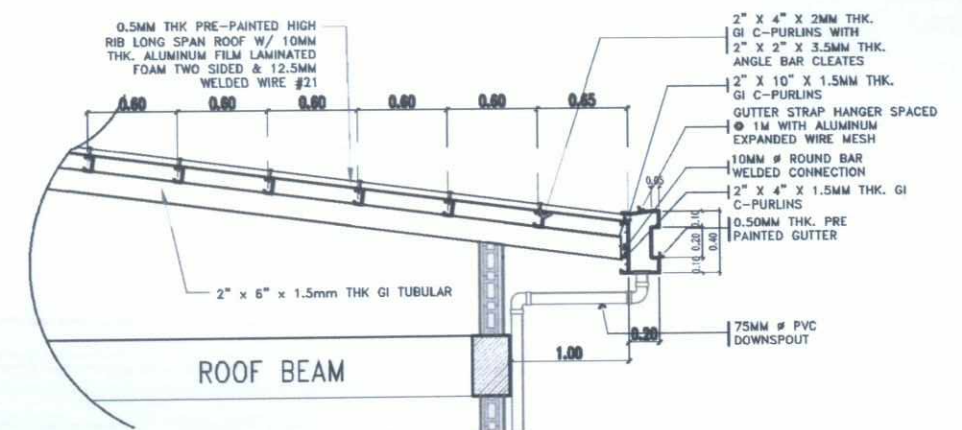
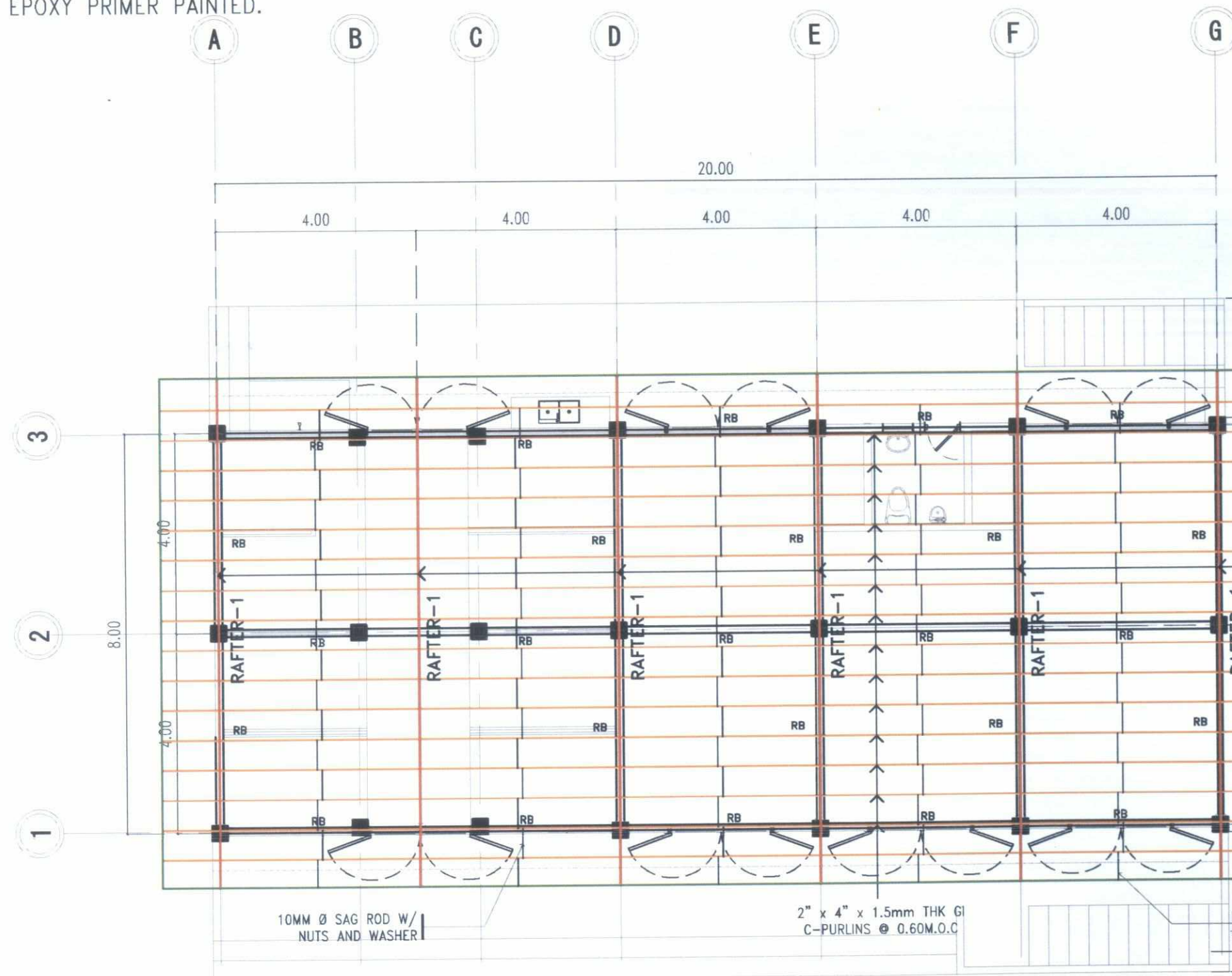
APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

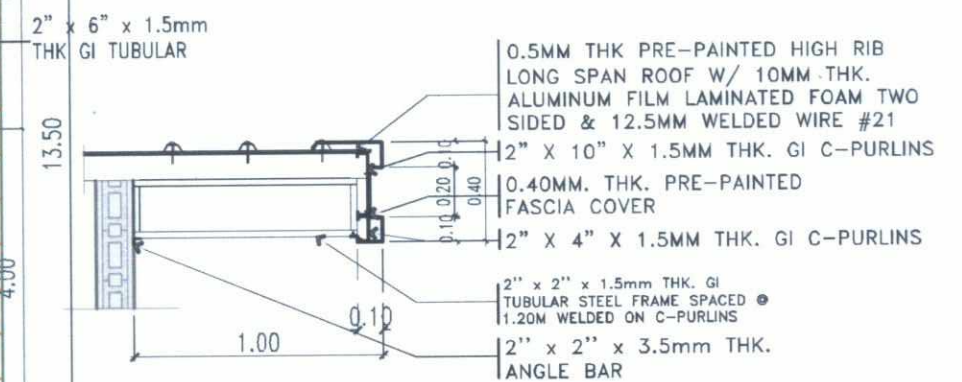
SHEET CONTENTS:
AS SHOWN
DATE: MAY 2025

SHEET NO:
S-02
PAGE NO:
19/66

NOTE:
ALL STEEL MEMBERS SHALL BE
EPOXY PRIMER PAINTED.



TYPICAL EAVES SECTION DETAILS



TYPICAL END FLUSHING DETAILS

SCALE: 1: 30 METERS

GROUND FLOOR ROOF FRAMING PLAN

SCALE: 1: 100 METERS

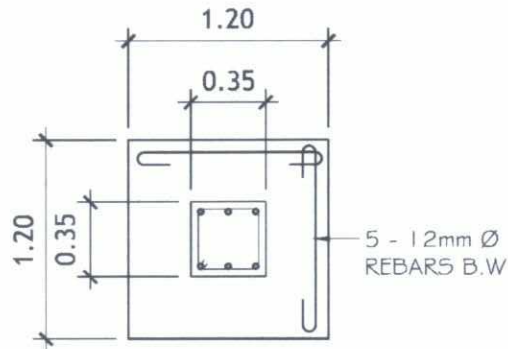


TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

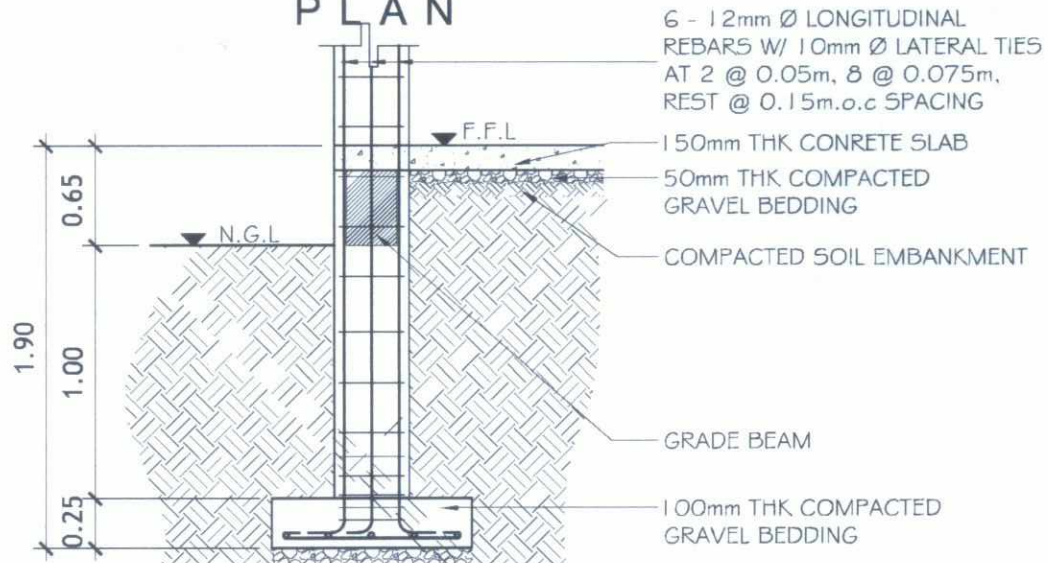
PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING/A PROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	 AR. DYLISSSES B. CALUYA ARCHITECT, OFDM	 AR. CHERRY L. FABIANES HEAD, OFDM-POU	 AR. ARLEN M. GUIEB DIRECTOR, OFDM	 DR. ROMMEL M. HERNANDEZ DIRECTOR, OUIS	 ATTY. GHEROLD C. BENITEZ ATTY. MILMAR V. RAMOS, DSA VP FOR ADMINISTRATION	 DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	S-03
PROJECT LOCATION:							SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	DATE: MAY 2025

SCHEDULE OF SLAB

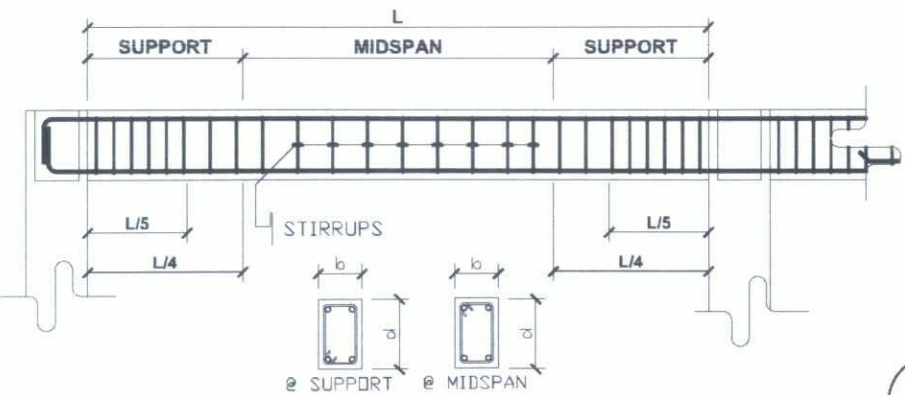
MARK	THICKNESS	REINFORCEMENT	EXTERIOR SUPPORT		MIDPANEL		INTERIOR SUPPORT	
			TOP BAR	BOTTOM BAR	TOP BAR	BOTTOM BAR	TOP BAR	BOTTOM BAR
SOG	125mm	ALONG LONG SIDE	N/A	10mm @ 400mm	N/A	10mm @ 400mm	N/A	10mm @ 400mm
		ALONG SHORT SIDE	N/A	10mm @ 400mm	N/A	10mm @ 400mm	N/A	10mm @ 400mm



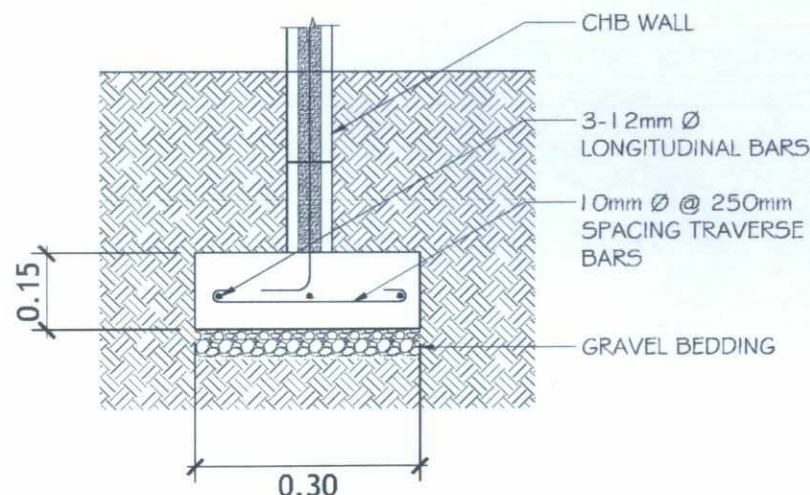
PLAN



SECTION COLUMN & FOOTING DETAIL
SCALE 1:30 MTS.



TYPICAL BEAM DETAIL
SCALE: 1: 50 METERS



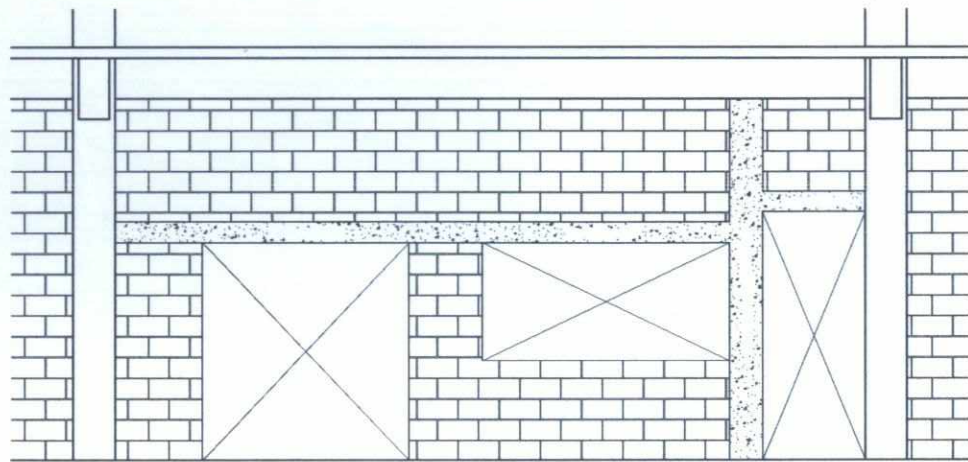
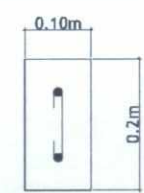
WALL FOOTING DETAIL
SCALE 1:10 MTS.

SCHEDULE OF COLUMNS

COLUMN MARK	NO. OF SETS	DIMENSION (MM)		FIGURE	LATERAL TIES
C-1	21 SETS	a (width)	b (depth)		10MM D.S.B , 2 @ 0.05M, 8 @ 0.075M, THE REST 0.15M M.O.C
		300	300		

SCHEDULE OF BEAMS

MARK	CONT'. BARS	EXT SUPPORT		MIDSPAN		INT SUPPORT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
GB	2-12mm top		2-12mm		2-12mm		2-12mm	10mm	2	50	
	2-12mm bot.		2-12mm		2-12mm		2-12mm		10	100	
									REST	200	
									SPLICE	100	
RB	2-12mm top		2-12mm		2-12mm		2-12mm	10mm	2	50	
	2-12mm bot.		2-12mm		2-12mm		2-12mm		10	100	
									REST	200	
									SPLICE	100	
		250x350		250x350		250x350					



GENERAL NOTES & SPECIFICATIONS

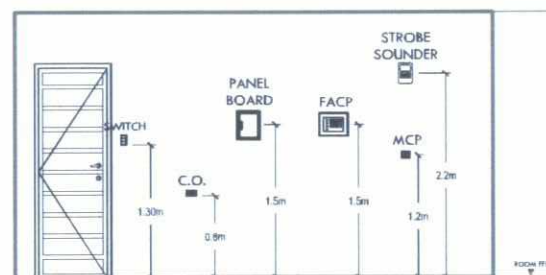
1. ALL ELECTRICAL INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH PROVISIONS OF THE LATEST EDITION OF PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES AND WITH THE REQUIREMENTS OF THE POWER COMPANY CONCERNED.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE SUPERVISION OF A DULY LICENSED REGISTERED ELECTRICAL ENGINEER OR PROFESSIONAL ELECTRICAL ENGINEER.
3. MATERIALS THAT PROVIDES SUPPORT, ADDED SAFETY, AND ACCESS, SUCH AS PULL BOXES, JUNCTION BOXES, BENDS AND OTHER FITTINGS SHALL BE PROVIDED EVEN IF NOT EXPLICITLY STATED IN THE PLAN.
4. THE ELECTRICAL SERVICE ENTRANCE POWER FOR THE BUILDING SHALL BE 230V, SINGLE PHASE, 2-WIRE + GROUND, 60 HZ.
5. WIRES SHALL BE COLOR CODED AS FOLLOWS:

6. LINE 1 --- RED	LINE 2 --- BLACK	GROUND --- GREEN
-------------------	------------------	------------------
7. WIRING METHOD SHALL BE AS FOLLOWS:

a. FOR EMBEDDED PIPE	-POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 (PVC SCH 40)
b. FOR RUN EXPOSED PIPE	-ELECTRICAL METALLIC TUBING (EMT) / INTERMEDIATE METAL CONDUIT (IMC)
c. FOR DRYWALL	-MICA TUBE, PVC FLEXIBLE HOSE OR PVC SCH 40
7. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
8. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT SHALL BE 3.5mm.
9. ANY DISCREPANCY IN LOCATION AND RATING OF ELECTRICAL EQUIPMENT SHALL BE VERIFIED WITH THE OWNER AND CHANGES SHALL BE MADE ACCORDINGLY.
10. ALL CONVENIENCE OUTLETS AND MOTOR LOADS SHALL BE PROPERLY GROUNDED TO THE DISTRIBUTION PANEL AND SECURELY BONDED TO THE GROUNDING ELECTRODE SYSTEM.

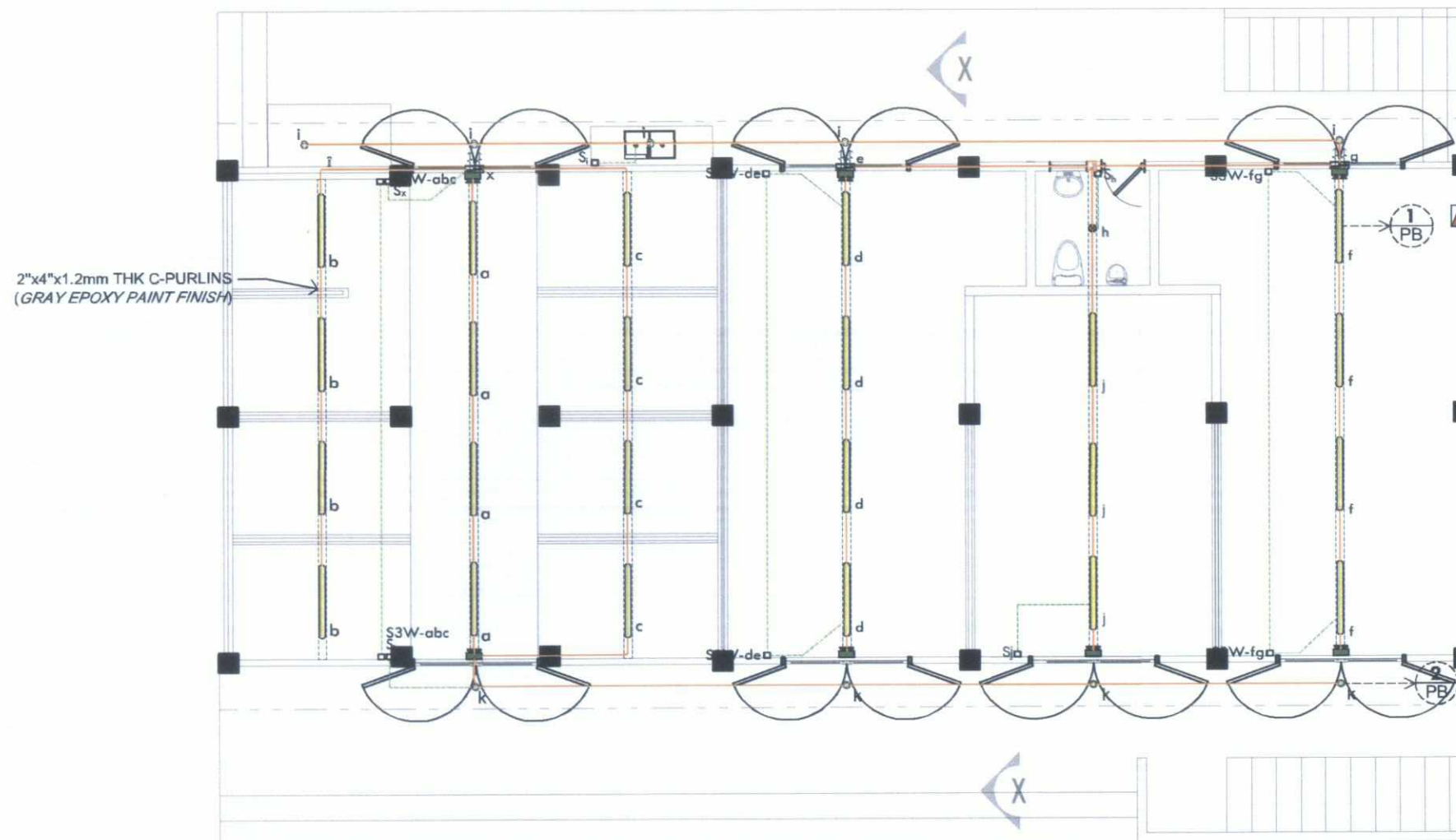
LEGENDS

	1-18W T5 LED TUBE IN A WEATHERPROOF HOUSING (DL)
	20W LED BULB WITH RECEPTACLE
	12W LED 4" ROUND SURFACE MOUNTED DOWNLIGHT (DL)
	WALL MOUNTED EMERGENCY LIGHT WITH OUTLET
	ONE-GANG WIDE SERIES 1-WAY SWITCH
	TWO-GANG WIDE SERIES 3-WAY SWITCH
	THREE-GANG WIDE SERIES 3-WAY SWITCH
	40W INDUSTRIAL TYPE WALL MOUNTED EXHAUST FAN WITH LOUVERS
	DUPLEX UNIVERSAL CONVENIENCE OUTLET WITH GROUND WITH WEATHERPROOF COVER
	PVC CONDUIT
	PANELBOARD



MOUNTING HEIGHT DETAILS

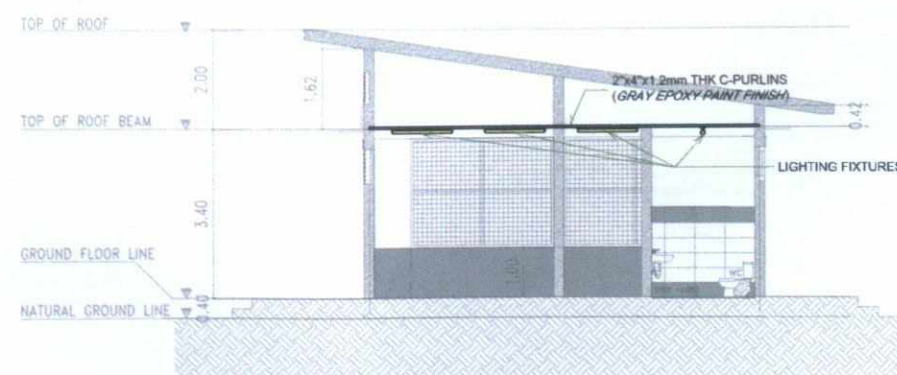
NTS



PROPOSED LIGHTING LAYOUT

SAN ISIDRO CAMPUS

SCALE 1 : 100 MTS



CROSS SECTION THRU X-X

SCALE 1 : 150 MTS



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

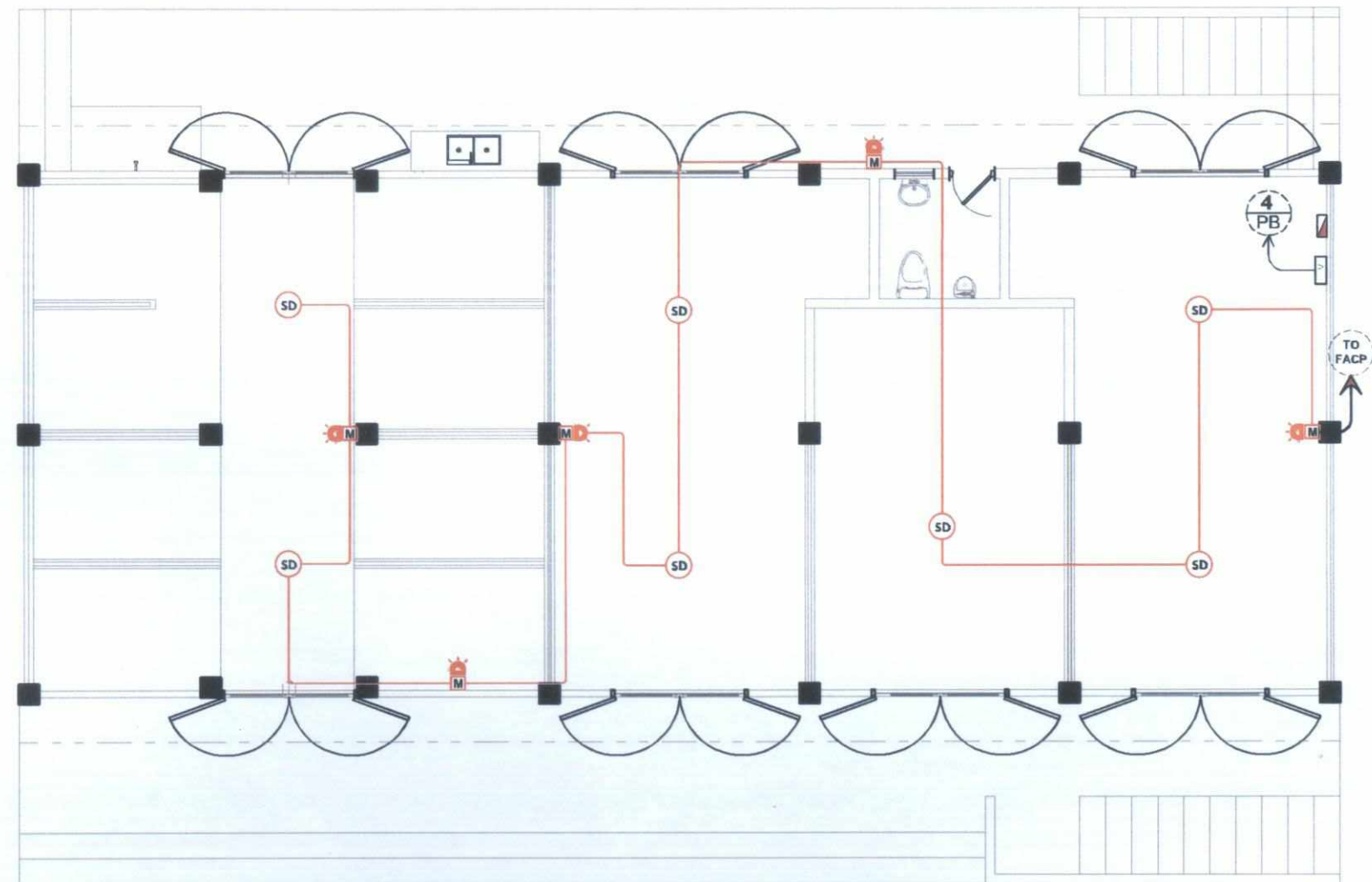
PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)							AS SHOWN	E- 01
PROJECT LOCATION:	ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, OFDM-PDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ROMMEL M. HERNANDEZ HEAD, DUIS	ATTY. GERALD A. DELA CRUZ ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	DATE:	PAGE NO: 23/64
SAN ISIDRO & LUCINDA CAMPUS, TARLAC STATE UNIVERSITY								

FDAS GENERAL NOTES

1. ALL FIRE DETECTION AND ALARM SYSTEM INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FIRE CODE, AND THE RULES AND REGULATIONS OF THE LOCAL FIRE BUREAU.
2. THE FIRE DETECTION AND ALARM SYSTEM SHALL BE DESIGNED AND CONSTRUCTED SO THAT THERE ARE APPROPRIATE PROVISIONS FOR THE EARLY WARNING OF FIRE, AND APPROPRIATE MEANS OF ESCAPE IN CASE OF FIRE FROM THE BUILDING TO A PLACE OF SAFETY OUTSIDE THE BUILDING CAPABLE OF BEING SAFELY AND EFFECTIVELY USED AT ALL MATERIAL TIMES.
3. MOUNTING HEIGHTS OF FIRE DETECTION DEVICES ARE THE FOLLOWING:
 - DETECTORS (CEILING MOUNTED), VARIES
 - SOUNDERS 2.20 METERS
 - MANUAL CALL POINT 1.20 METERS
 - CONTROL PANEL 1.50 METERS
4. ALL MATERIALS TO BE USED ARE NEW AND WILL BE INSTALLED IN APPLICATION FOR WHICH THEY ARE INTENDED.

LEGENDS

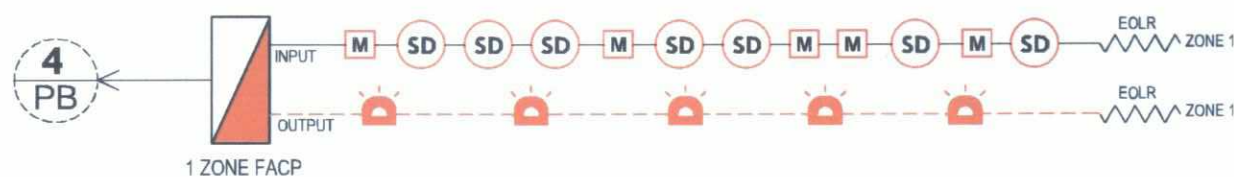
	SMOKE DETECTOR
	MANUAL CALL POINT
	STROBE WITH SOUNDER
	END OF THE LINE RESISTOR
	FIRE ALARM CONTROL PANEL



PROPOSED CONVENTIONAL FDAS LAYOUT

SAN ISIDRO CAMPUS

SCALE 1 : 100 MTS



FDAS SINGLE LINE DIAGRAM



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
PROJECT LOCATION:
SAN ISIDRO & LUCINDA CAMPUS,
TARLAC STATE UNIVERSITY

PREPARED BY:

ENGR. MARK JOMELLE O. NATIVIDAD
ELECTRICAL ENGINEER, OFDM-PDU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
HEAD, OUIS

RECOMMENDING APPROVAL:

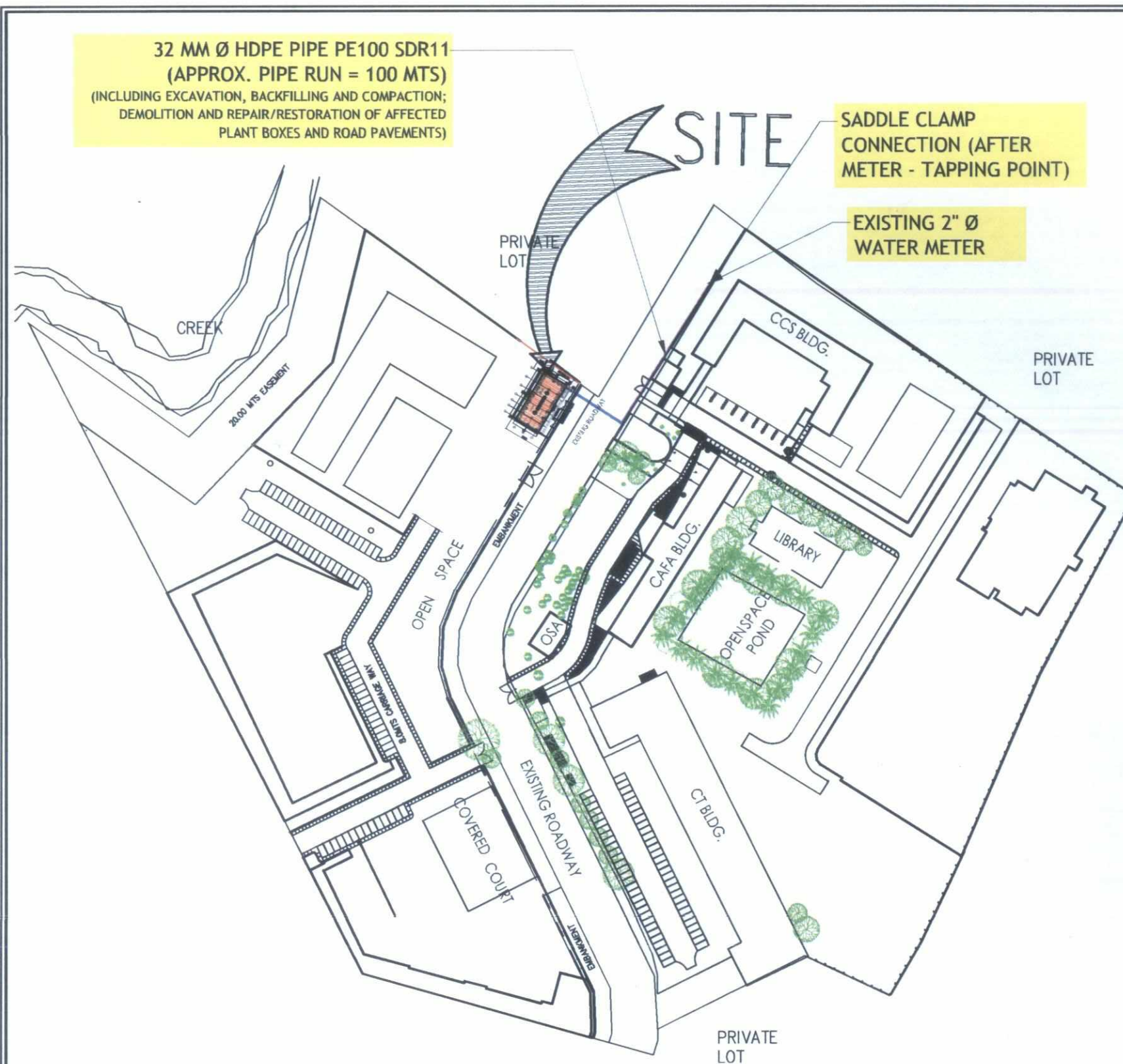
ATTY. GHEROLD C. BENITEZ
ATTY. WILMARK S. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

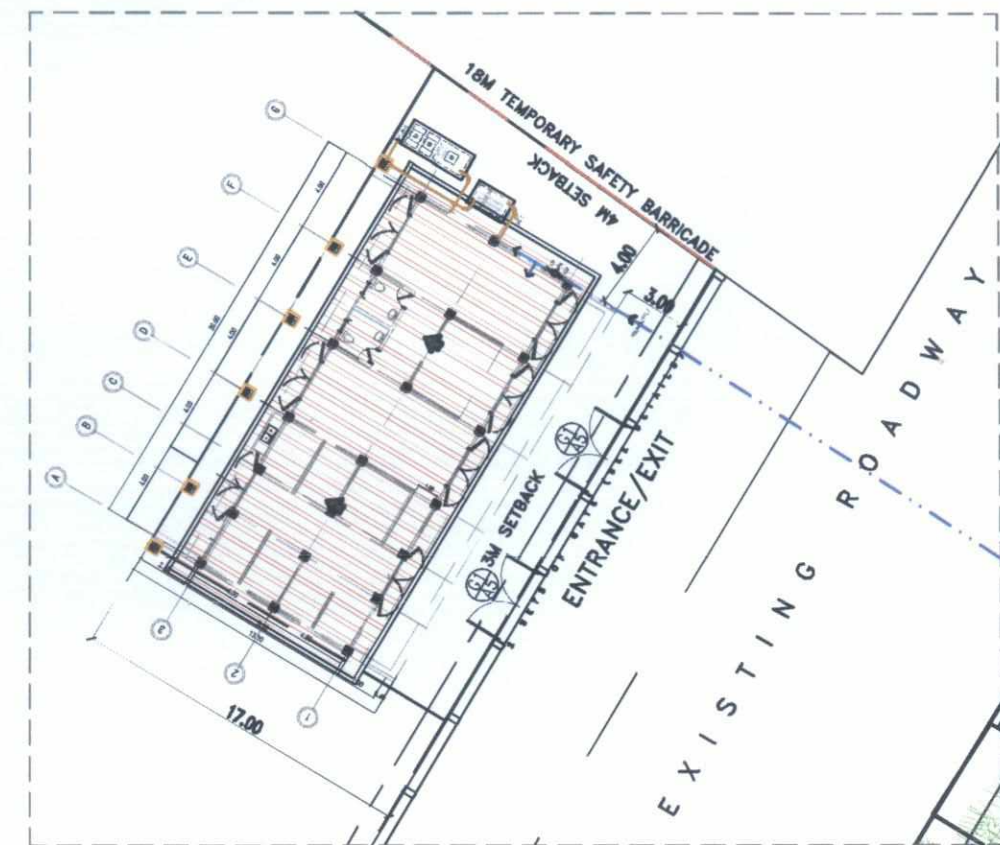
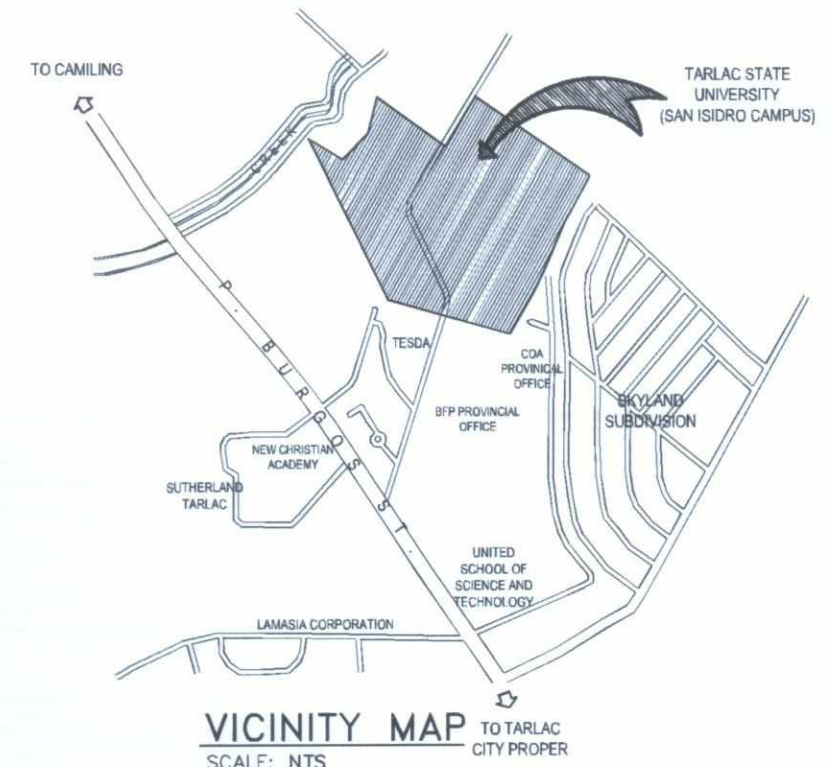
SHEET CONTENTS:
AS SHOWN
DATE:

SHEET NO.:
E-03
PAGE NO.:
25/64



LOCATION MAP AND MAIN WATER CONNECTION PLAN

SCALE: NTS



SITE DEVELOPMENT PLAN

SCALE: 1: 350 METERS

 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 MATERIAL RECOVERY FACILITY (MRF) AT LUCINDA AND SAN ISIDRO CAMPUS	AR. PAUL O. DOCTOR, RMP ARCHITECT/MASTER PLUMBER, OFDM-POU	AR. CHERRY L. FABIANES HEAD, OFDM-POU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ROMMEL M. HERNANDEZ DIRECTOR, OUPS	ATTY. GILBERTO GARCIA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	P-01
	PROJECT LOCATION:							DATE: JUNE 2025	PAGE NO: 26/64
	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								

LEGENDS

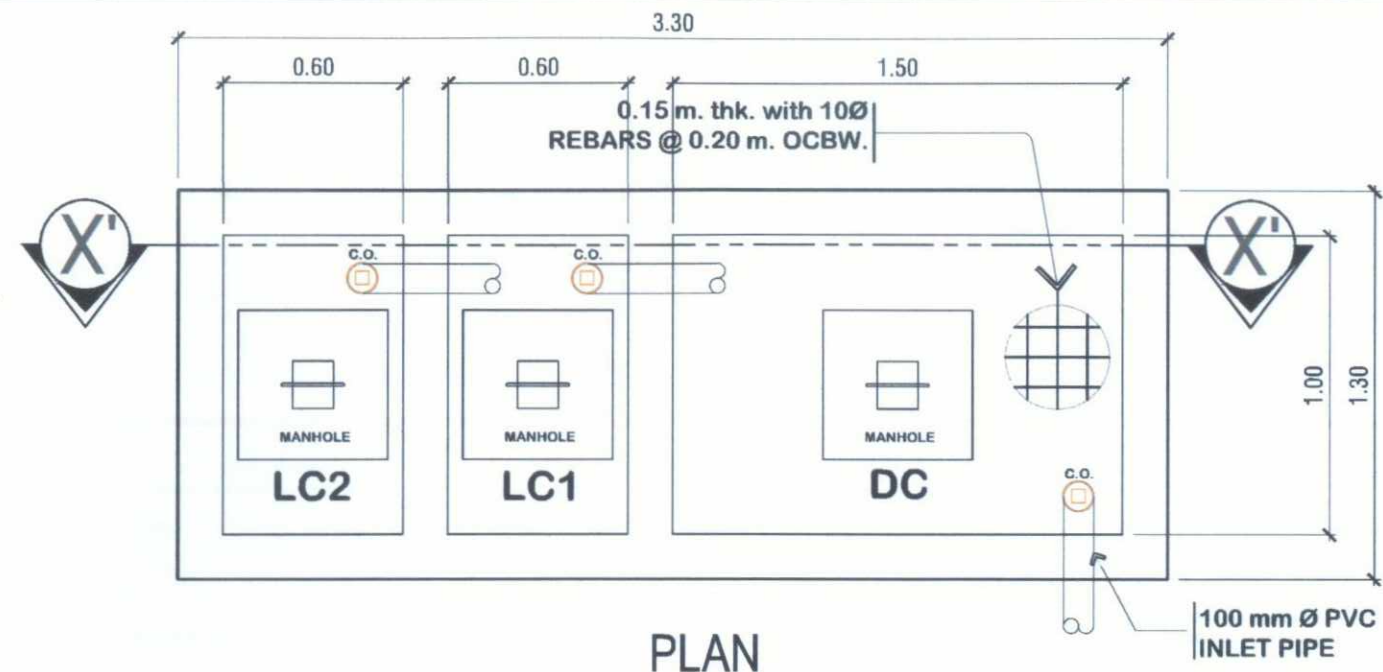
SP	SOIL PIPE	FD	FLOOR DRAIN
WP	WASTE PIPE	RD	ROOF DRAIN
VP	VENT PIPE	URI	URINAL
SS	SOIL STACK	WC	WATER CLOSET
VS	VENT STACK	LAV	LAVATORY
VTW	VENT THRU WALL	GV	GATE VALVE
SVTR	STACK VENT THRU ROOF	CV	CHECK VALVE
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK
		4" Ø PVC S1000 SOIL/WASTE PIPES	
		3" Ø PVC S1000 WASTE/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

GENERAL NOTES:

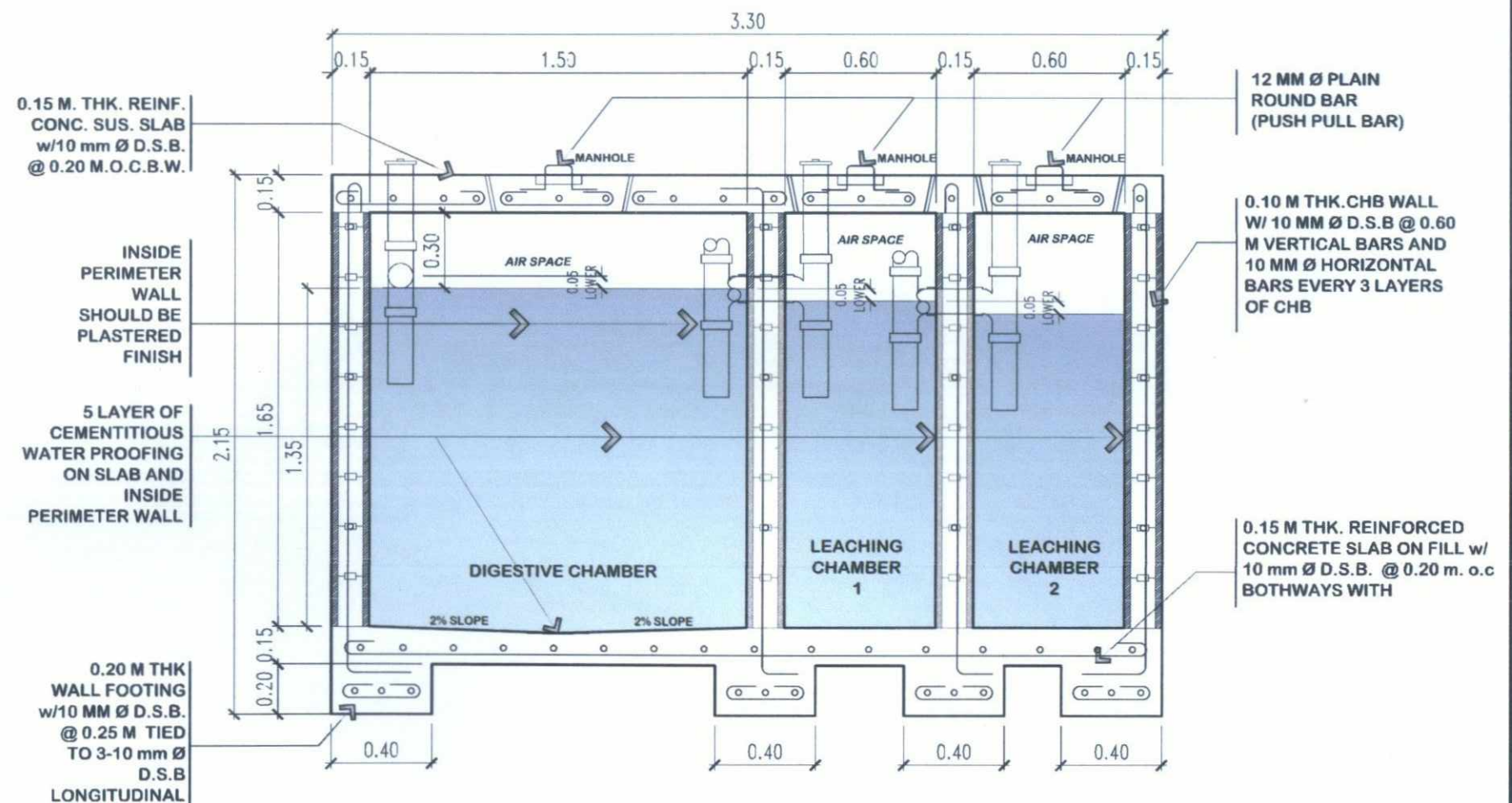
- GRADE OF HORIZONTAL PIPING
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AT A UNIFORM GRADE OF NOT LESS THAN (2%) TWO PERCENT.
- CHANGE OF DIRECTION
ALL CHANGES IN DIRECTION SHALL BE MADE BY THE APPROPRIATE USE OF 45° WYE, LONG SWEEP, QUARTER BEND, SIXTH, EIGHT, SIXTEENTH BEND WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, A SINGLE 1/8 BEND COMBINATION MAYBE USED ON WASTE LINE.
- PROHIBITED FITTINGS
NO DOUBLE TEE BRANCHES SHALL BE USED ON SOIL & WASTE LINES. DRILLING & TAPPING OF HOUSE DRAIN, WASTE PIPES OR USE OF SADDLE HUB AND BENDS ARE PROHIBITED.
- SLEEVES
PROVIDE PIPE SLEEVES AT WALL, COLUMN & SLAB ONE SIZE BIGGER THAN THE ACTUAL SIZE OF PIPE PASSING THRU WALLS OR UNDER SLAB TO PROTECT PIPES FROM BREAKAGE.
- PIPE CLEANOUTS
CLEANOUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
 - EVERY CHANGE IN HORIZONTAL DIRECTION EXCEEDING TWENTY - TWO AND ONE - HALF DEGREES.
 - ONE AND HALF METERS INSIDE THE PROPERTY LINE BEFORE THE HOUSE DRAINAGE CONNECTION.
 - EVERY FIFTEEN METERS (15.00) IN HORIZONTAL RUN OF PIPES.
 - AT THE END OF ANY HORIZONTAL PIPES.
- DEAD ENDS AVOIDED:
IN THE INSTALLATIONS OF PLUMBING SYSTEM, DEAD-END SHALL BE AVOIDED.
- ALL PLUMBING WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL BUILDING CODE, REQUIREMENTS OF THE PLUMBING INSPECTION OFFICE AND PERTINENT PROVISION OF THE NATIONAL BUILDING CODE.

THE CONTRACTOR SHALL BE VERIFY ALL THE EXISTING UTILITIES AT SITE AND COORDINATES THE WORKS WITH WATER LINE SERVICE CONNECTION POINT.

ALL PIPES SIZES ARE IN MILLIMETERS AND ALL DIMENSION ARE IN METERS UNLESS OTHERWISE SPECIFIED.



PLAN



SECTION X'-X'

SEPTIC TANK DETAILS

SCALE: 1:25



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
Ar. Paulo A. Doctor, RMP
ARCHITECT/MANAGING PLUMBER, OFDM-POU

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

CERTIFIED BY:
Ar. Arlen M. Guieb
DIRECTOR, OFDM

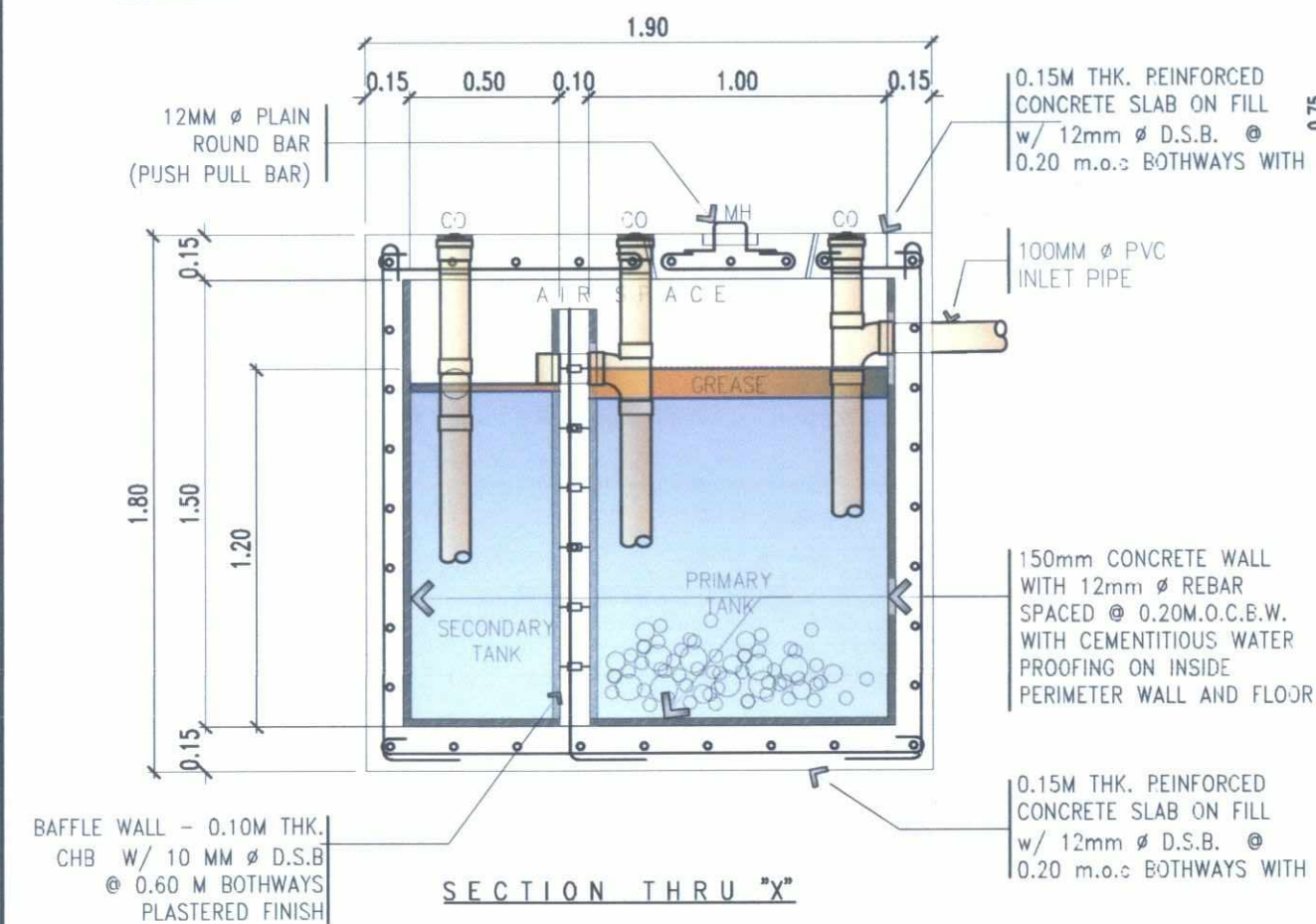
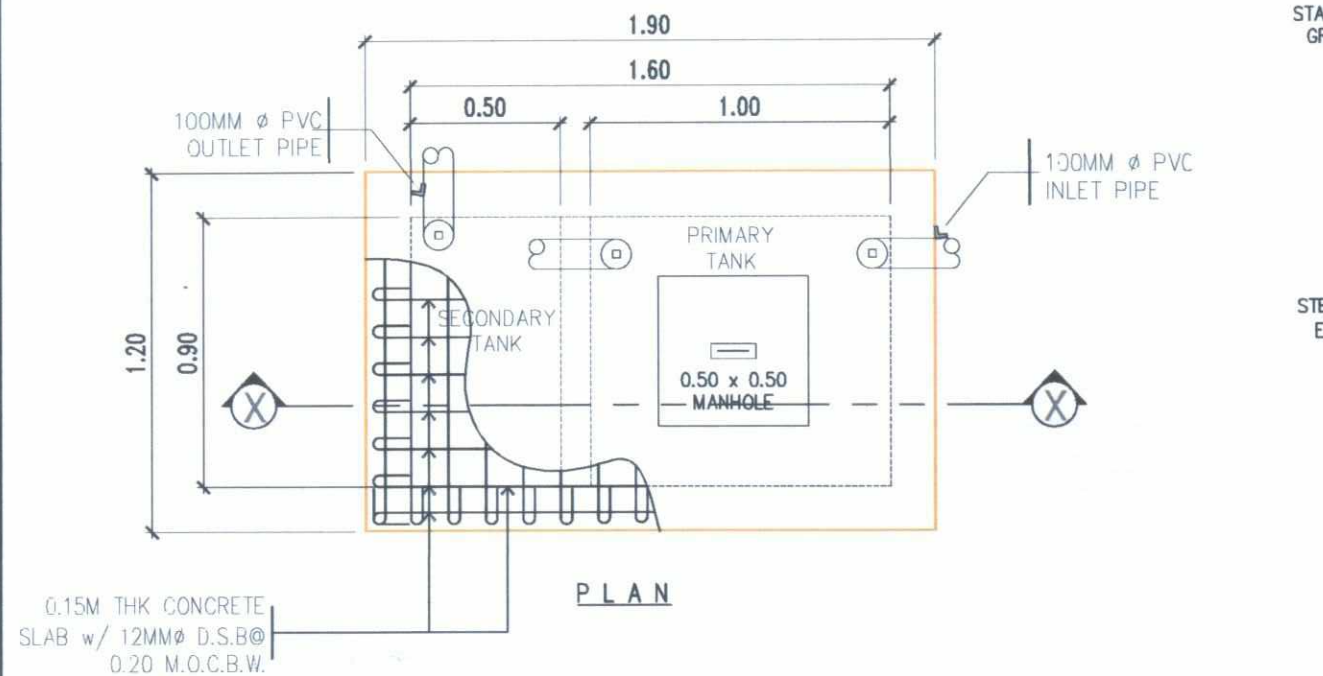
REQUESTING OFFICE:
Dr. Rommel M. Hernandez
DIRECTOR, DUNS

RECOMMENDING APPROVAL:
Atty. Gherold C. Benitez
ATTY. WILMARK F. RAMOS, DBA
VP FOR ADMINISTRATION

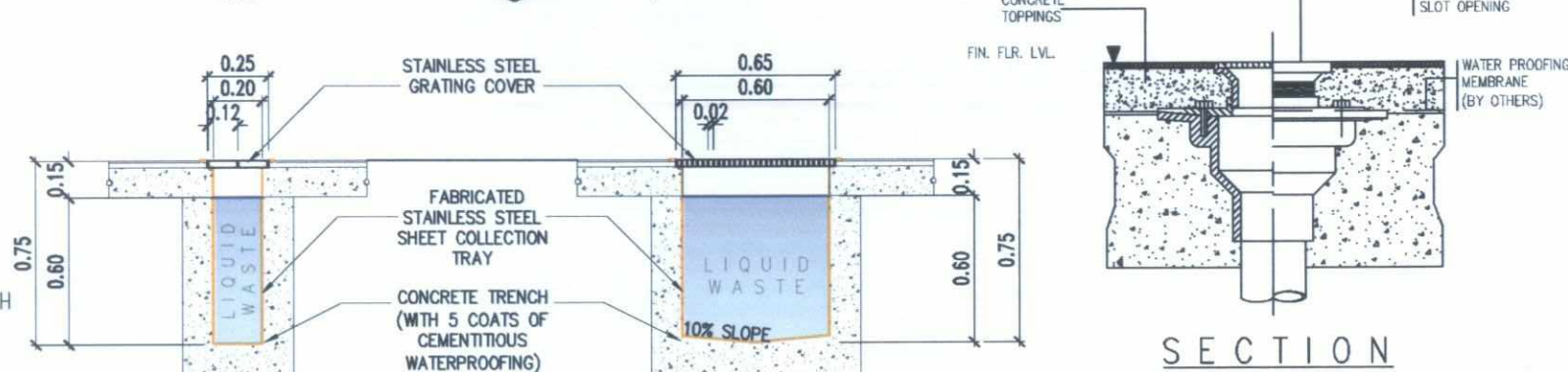
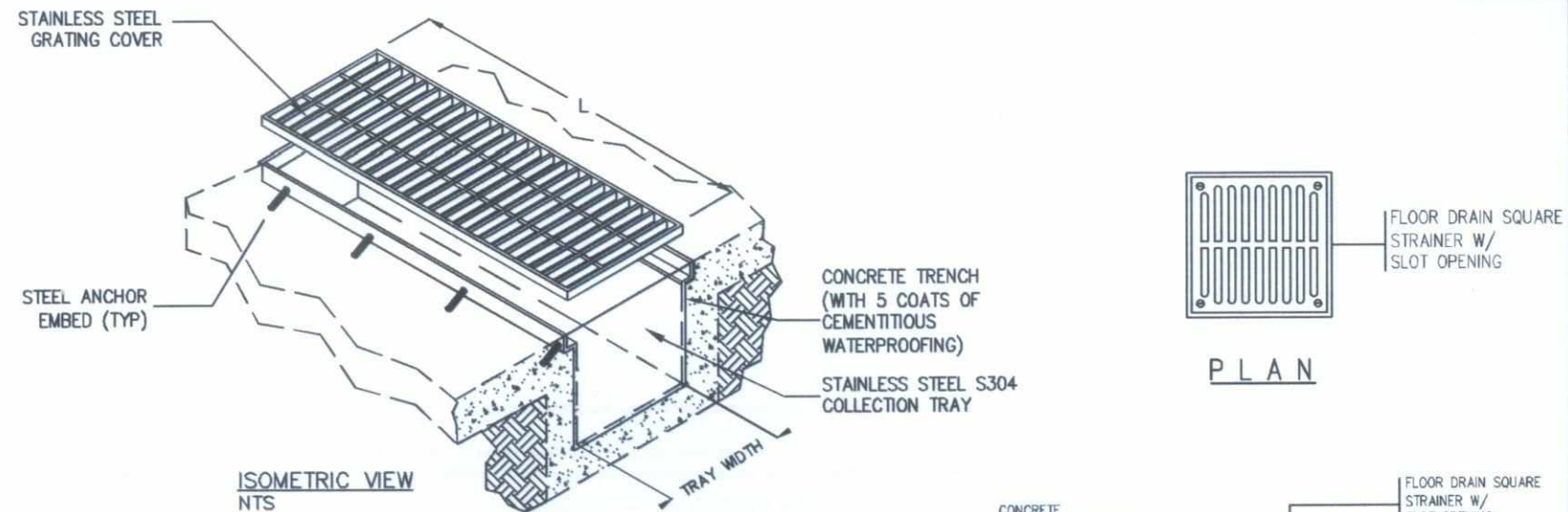
APPROVED:
Dr. Arnold E. Velasco
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
P-02
PAGE NO:
27/64

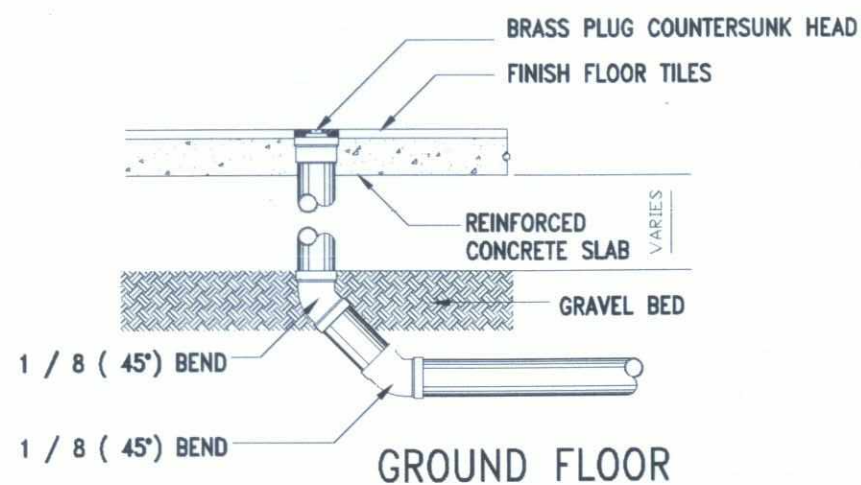


LIQUID WASTE INTERCEPTOR DETAILS
SCALE: 1:25

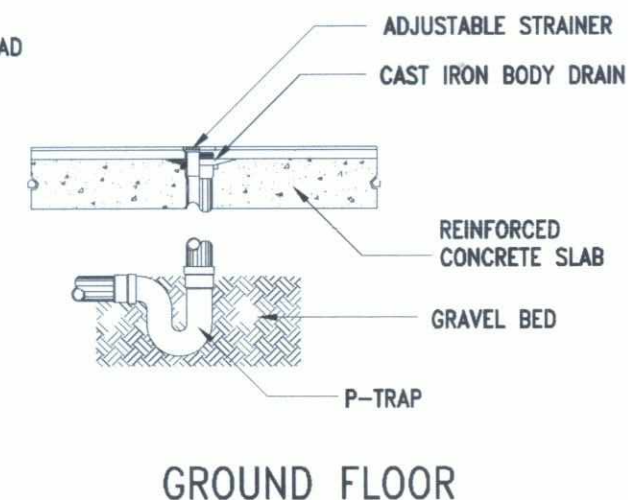


COLLECTION TRAY DETAIL
SCALE: 1:25

FLOOR DRAIN DETAIL
SCALE: NTS



FLOOR CLEAN-OUT DETAIL
SCALE: NTS



FLOOR DRAIN DETAIL
SCALE: NTS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. PAULO ALDOCTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU

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

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

REQUESTING OFFICE:
DR. ROMMEL M. HERNANDEZ
DIRECTOR, OHS

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

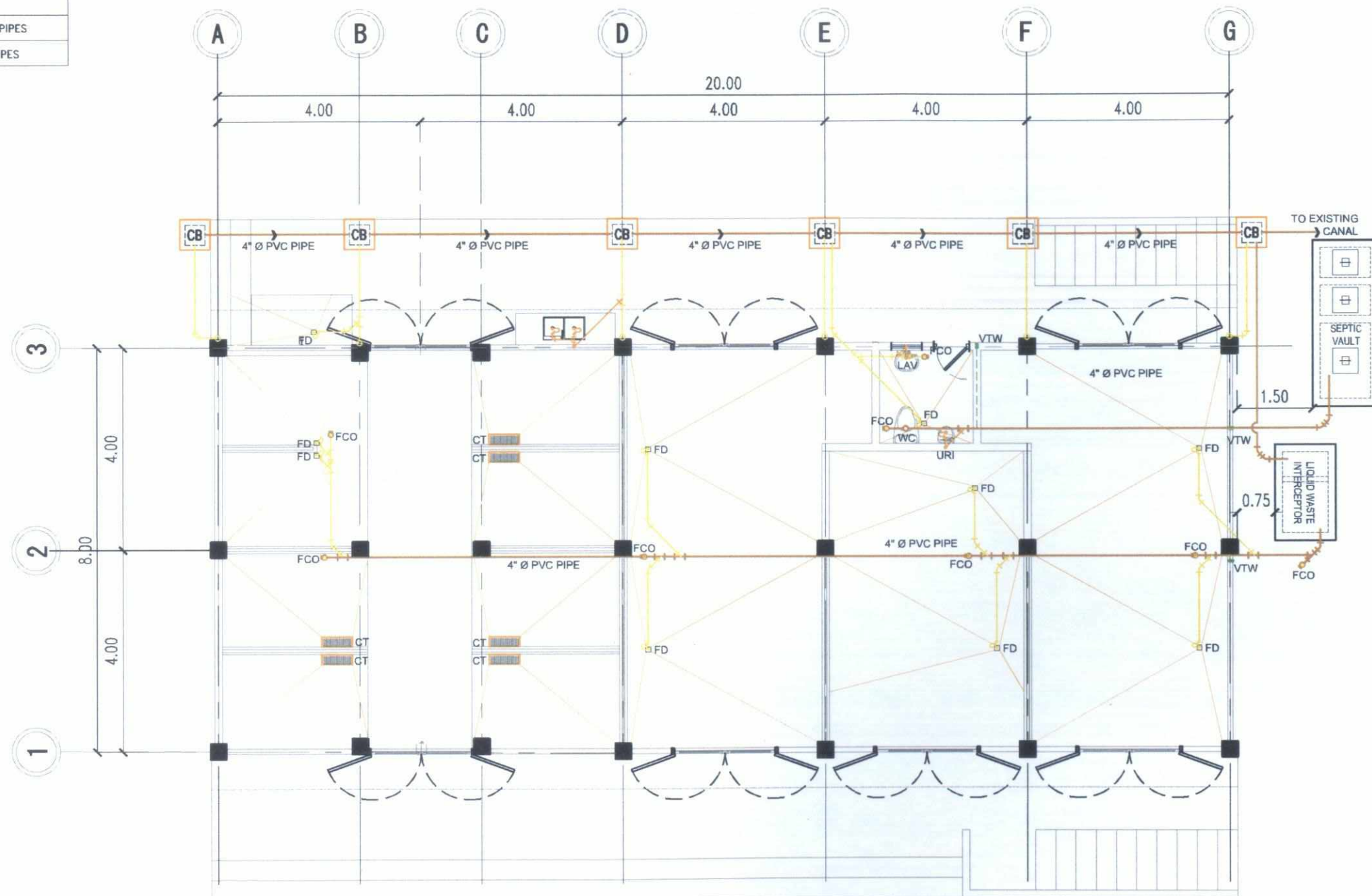
APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO.:
P-03
PAGE NO.:
28/64

LEGEND

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



GROUND FLOOR SANITARY LAYOUT SCALE: 1:100



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. PAULO A. DOCTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OHS

RECOMMENDING APPROVAL:

ATTY. WILMARCK S. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
P-04
PAGE NO:
29/64

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



ROOF LEVEL
STORM DRAIN LAYOUT
SCALE: 1:100

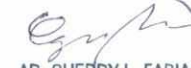


TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. PAULITA A. DOCTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OHS

RECOMMENDING APPROVAL:

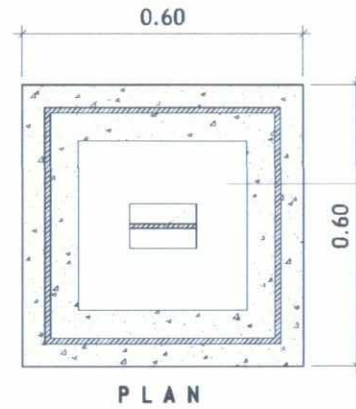
ATTY. WILMAR J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

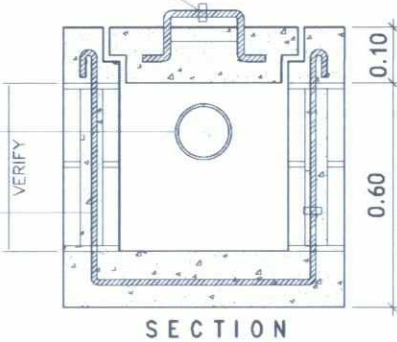
SHEET NO:
P-05
PAGE NO:
30/64



12 mm Ø PLAIN
HANDLE BAR

12 mm Ø PLAIN
HANDLE BAR

PVC PIPE
100mm thk. CHB
w/ 10 mm Ø
STIFFENER BARS



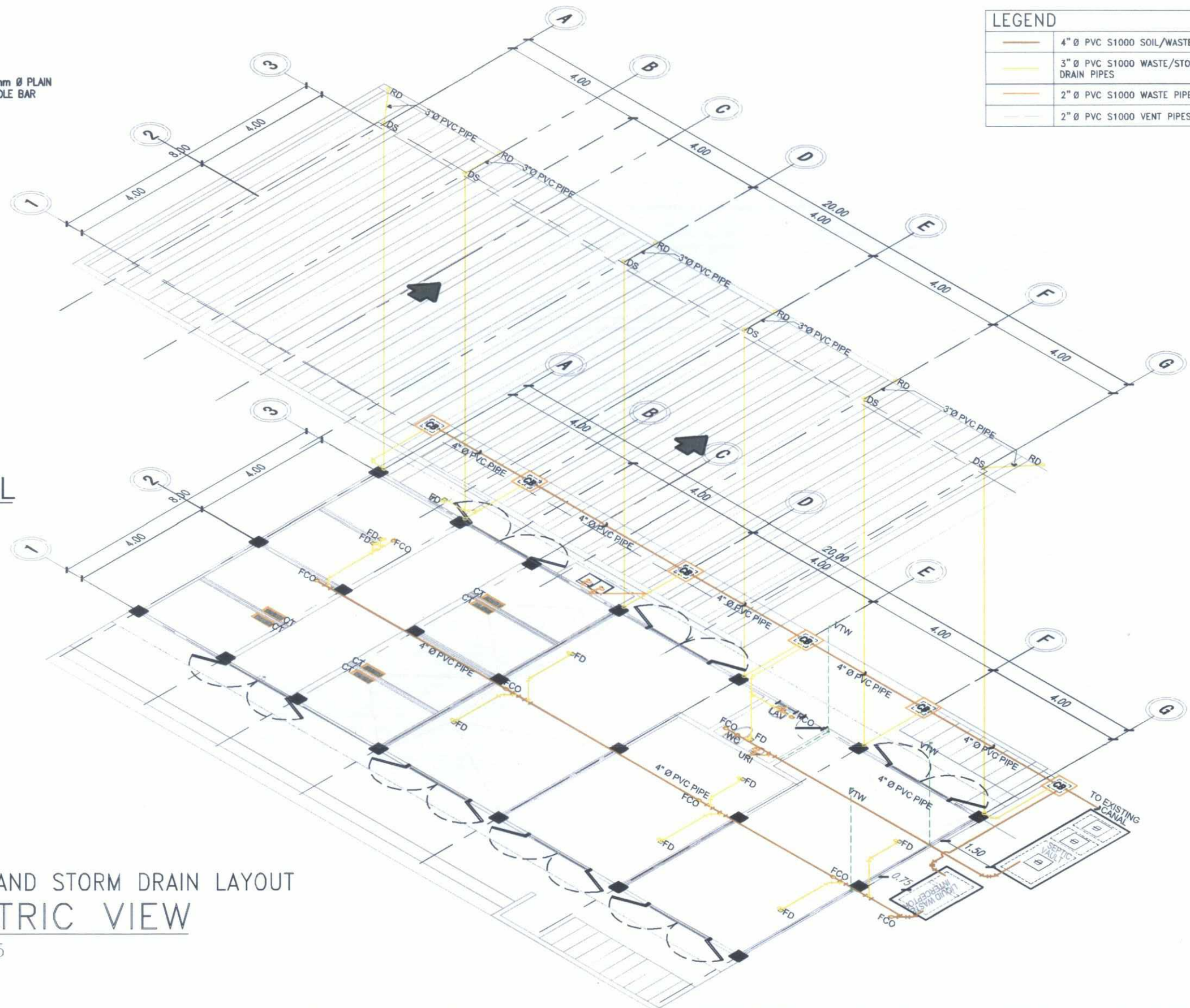
CATCH BASIN DETAIL

SCALE: NTS

SANITARY AND STORM DRAIN LAYOUT ISOMETRIC VIEW

SCALE: 1:75

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



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS

PROJECT LOCATION:
SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. PAULO A. DOCTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, DUHS

RECOMMENDING APPROVAL:

ATTY. GHEROLD C. BENITEZ
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN

DATE: JUNE 2025

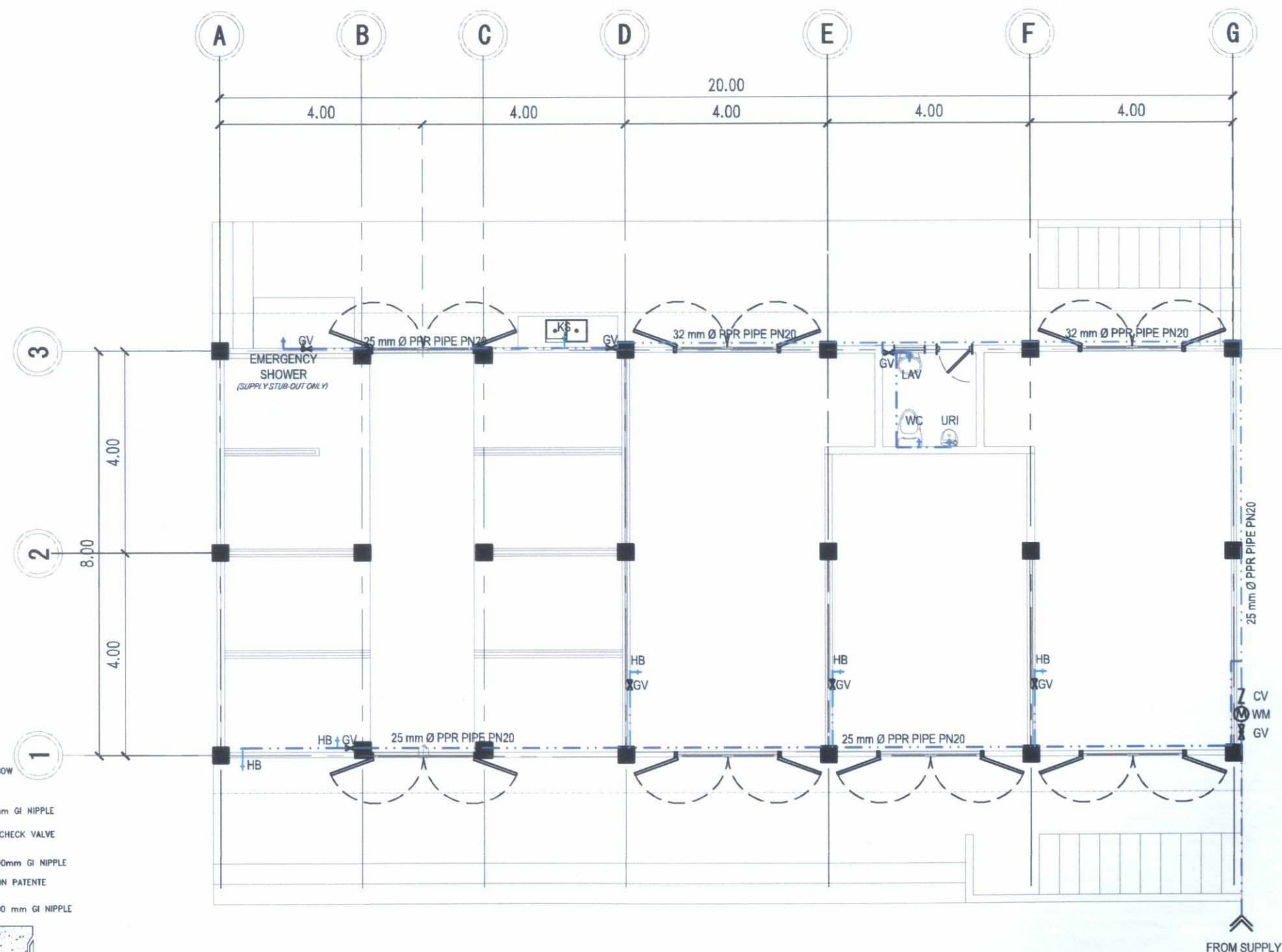
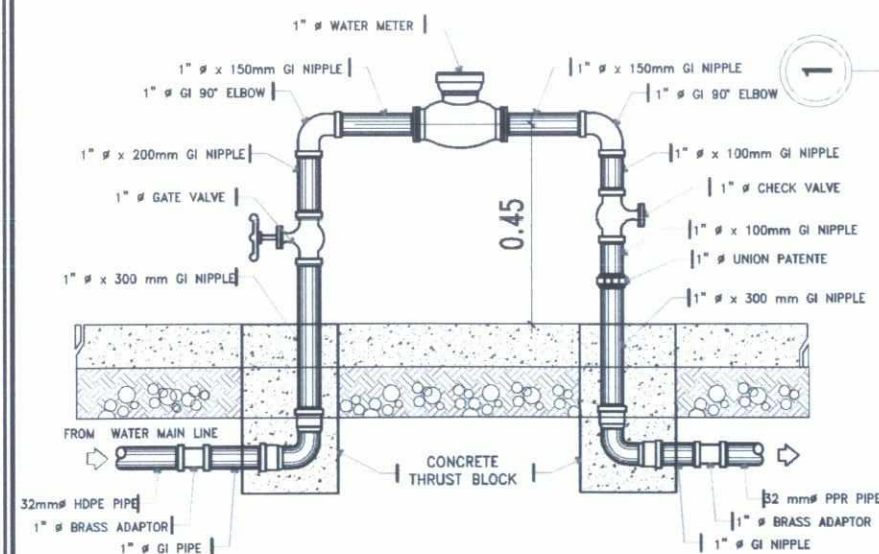
SHEET NO:
P-06

PAGE NO:
31/64

LEGEND	
	32MM Ø PPR PIPE PN20
	25MM Ø PPR PIPE PN20
	20MM Ø PPR PIPE PN20

NOTE:

- ALL FIXTURE SUPPLY PIPES SHALL BE 20MM Ø PPR PIPE PN20 EXCEPT FOR EMERGENCY SHOWERS, WHICH SHALL BE 25MM Ø PPR PIPE PN20.
- PROVIDE 300MM HIGH 20MM Ø PPR PIPE PN20 AIR CHAMBER WITH END CAP FOR EVERY LAVATORY, KITCHEN SINK, AND HOSE BIBBS.



BUILDING SUB-METER DETAIL

SCALE:

NTS

WATER SUPPLY LAYOUT

SCALE:

1:100



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

PROJECT TITLE:	CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF) AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:	SAN ISIDRO EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:



AR. PAULO A. DOCTOR, RMP

ARCHITECT/REGISTERED PLUMBER, CENM, RCM

CHECKED BY:



AR. CHERRY L. FABIANES
HEALTH MEDICAL PMU

CERTIFIED BY:


AR. ARLEN M. GUIEB
DIRECTOR, OEDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ

DIRECTOR

RECOMMENDING APPROVAL



ATTY. GHEROLD C. BENITEZ

~~ATTY. WILMARK J. RAMOS, DBA~~

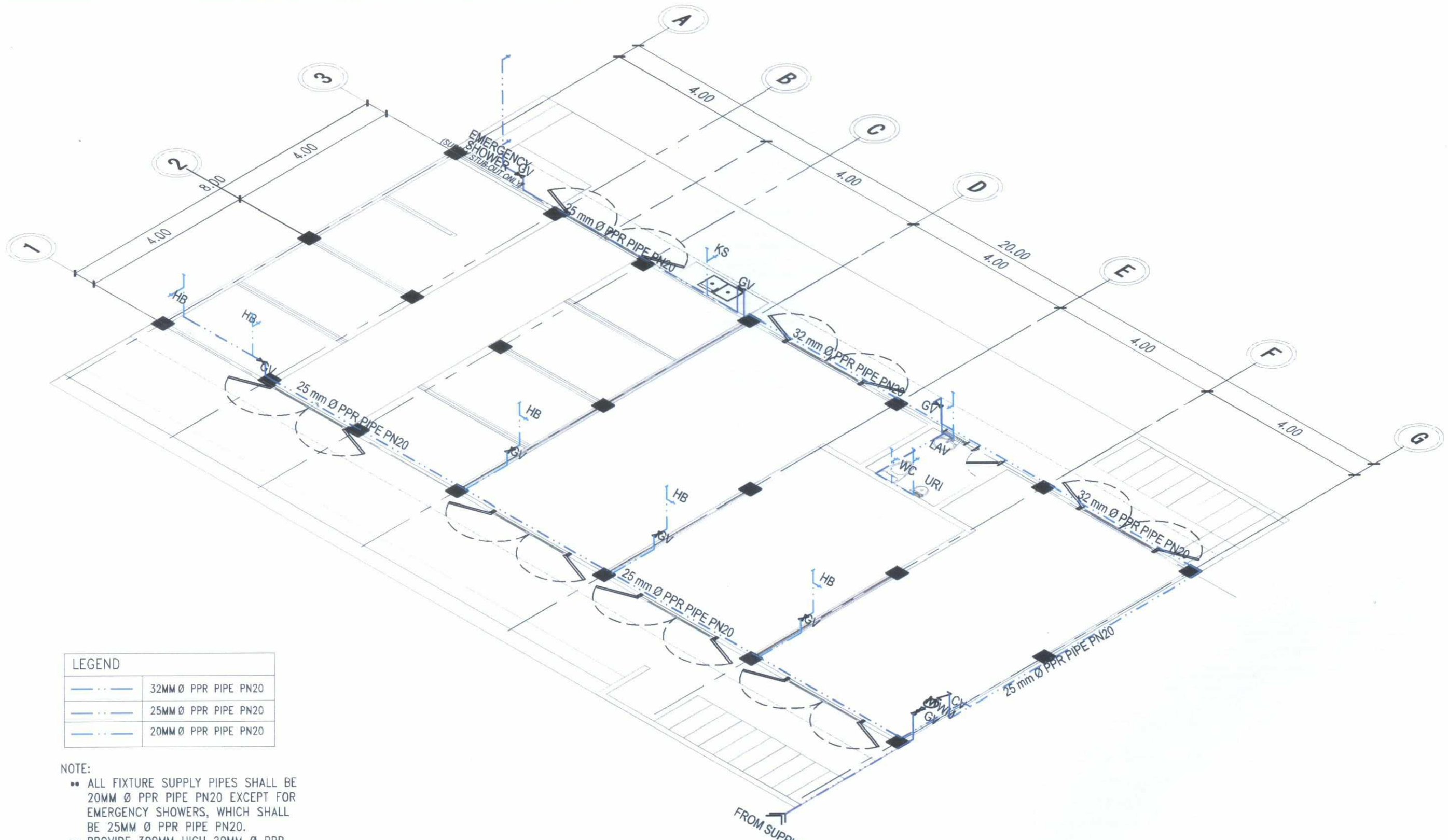
UD FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO

SHEET CONTENTS:	
AS SHOWN	
DATE: JUNE 2025	

SHEET NO:	P-07
PAGE NO:	32/64



LEGEND	
	32MM Ø PPR PIPE PN20
	25MM Ø PPR PIPE PN20
	20MM Ø PPR PIPE PN20

- NOTE:
- ALL FIXTURE SUPPLY PIPES SHALL BE 20MM Ø PPR PIPE PN20 EXCEPT FOR EMERGENCY SHOWERS, WHICH SHALL BE 25MM Ø PPR PIPE PN20.
 - PROVIDE 300MM HIGH 20MM Ø PPR PIPE PN20 AIR CHAMBER WITH END CAP FOR EVERY LAVATORY, KITCHEN SINK, AND HOSE BIBBS.

WATER SUPPLY ISOMETRIC LAYOUT
SCALE: 1: 75

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 MATERIAL RECOVERY FACILITY (MRF) AT LUCINDA AND SAN ISIDRO CAMPUS							AS SHOWN	P-08
	PROJECT LOCATION:	AR. PAULO A. DOCTOR RMP ARCHITECT/MASTER PLUMBER, OFDM-PDU	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ROMMEL M. HERNANDEZ DIRECTOR, OUMS	ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	DATE: JUNE 2025	PAGE NO: 33/64

MATERIAL RECOVERY FACILITY (MRF) LUCINDA CAMPUS



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

PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, OEDM	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ROMMEL M. HERNANDEZ DIRECTOR, OUIS	RECOMMENDING APPROVAL: ATTY. CHEROLD C. BENITEZ ATTY. WILMAR J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-01
PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY							DATE: JUNE 2025	PAGE NO: 34/64



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 MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OHS

RECOMMENDING APPROVAL:

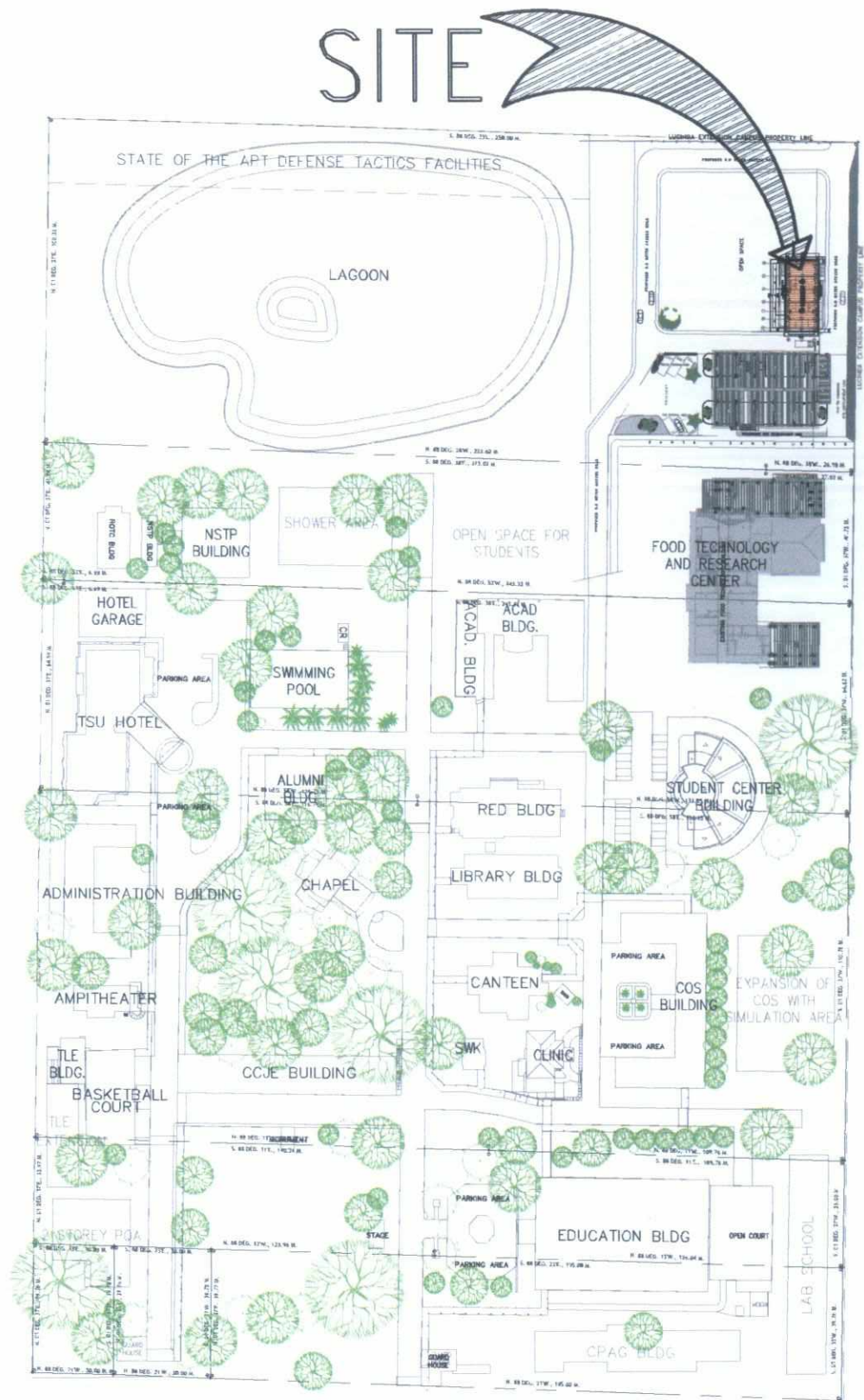
ATTY. GHEROUC C. BENITEZ
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

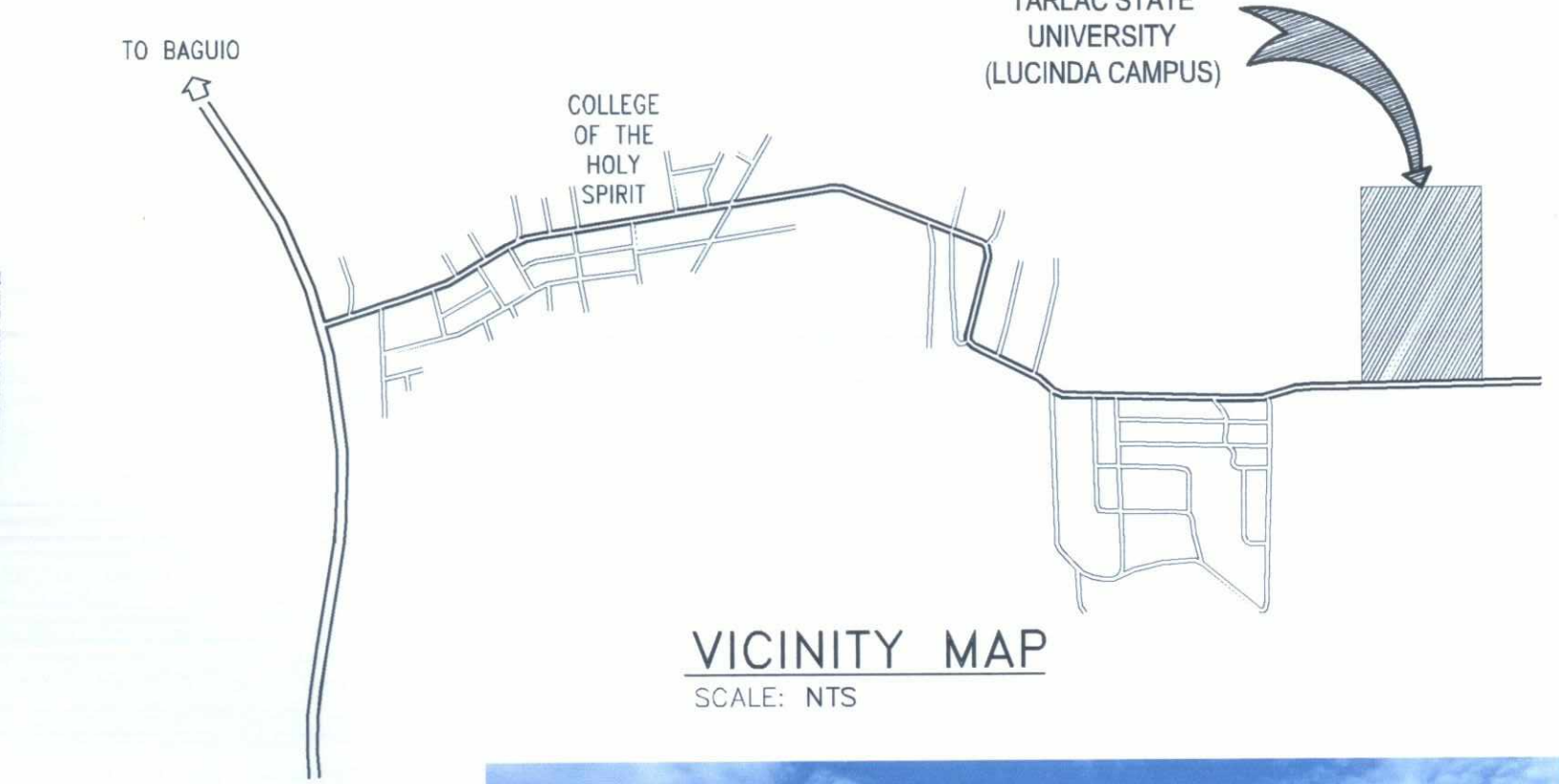
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
A-02
PAGE NO:
35/64



LOCATION MAP
SCALE: 1:2000



VICINITY MAP
SCALE: NTS

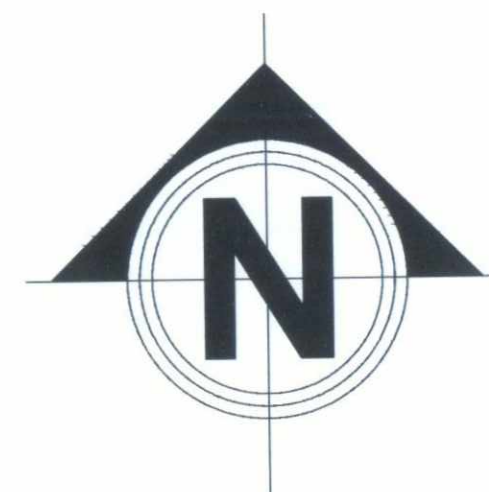
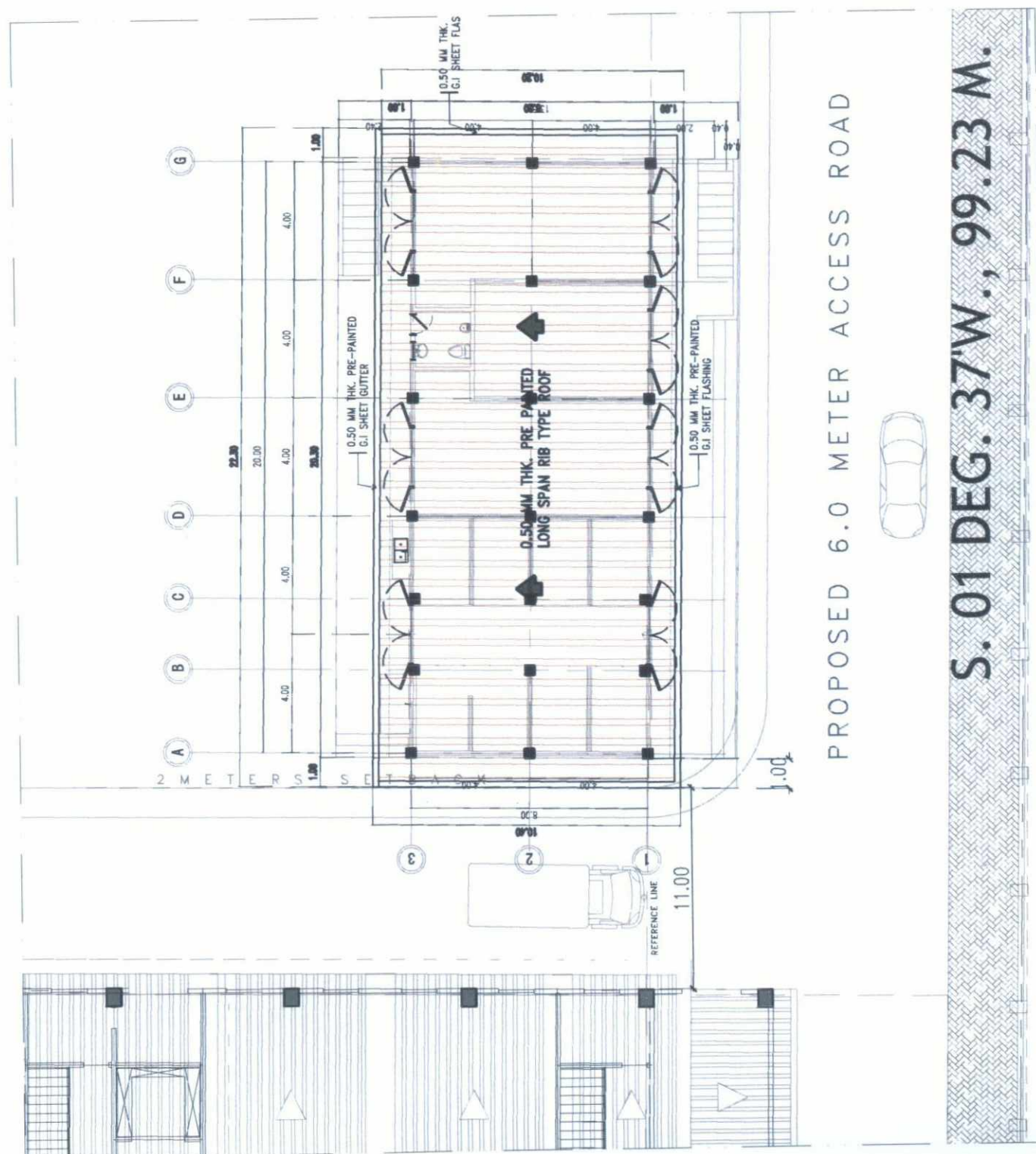


EXISTING CONDITION OF SITE
SCALE: NTS

	TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, OFDM	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ROMMEL M. HERNANDEZ DIRECTOR, OHS	RECOMMENDING APPROVAL: ATTY. GERALD C. BENITEZ ATTY. WILMARINO J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: JUNE 2025	SHEET NO: A-03 PAGE NO: 36/64
--	---	---	--	---	---	--	---	---	--	--

*DEMOLISH THE EXISTING
22M X 4M X 3M HEIGHT
MRF BUILDING

*USE PRE-PAINTED GI ROOF SHEET WITH STABLE FRAME FOR BARRICADE DURING CONSTRUCTION; DO NOT USE BLUESACK OR PLYWOOD.

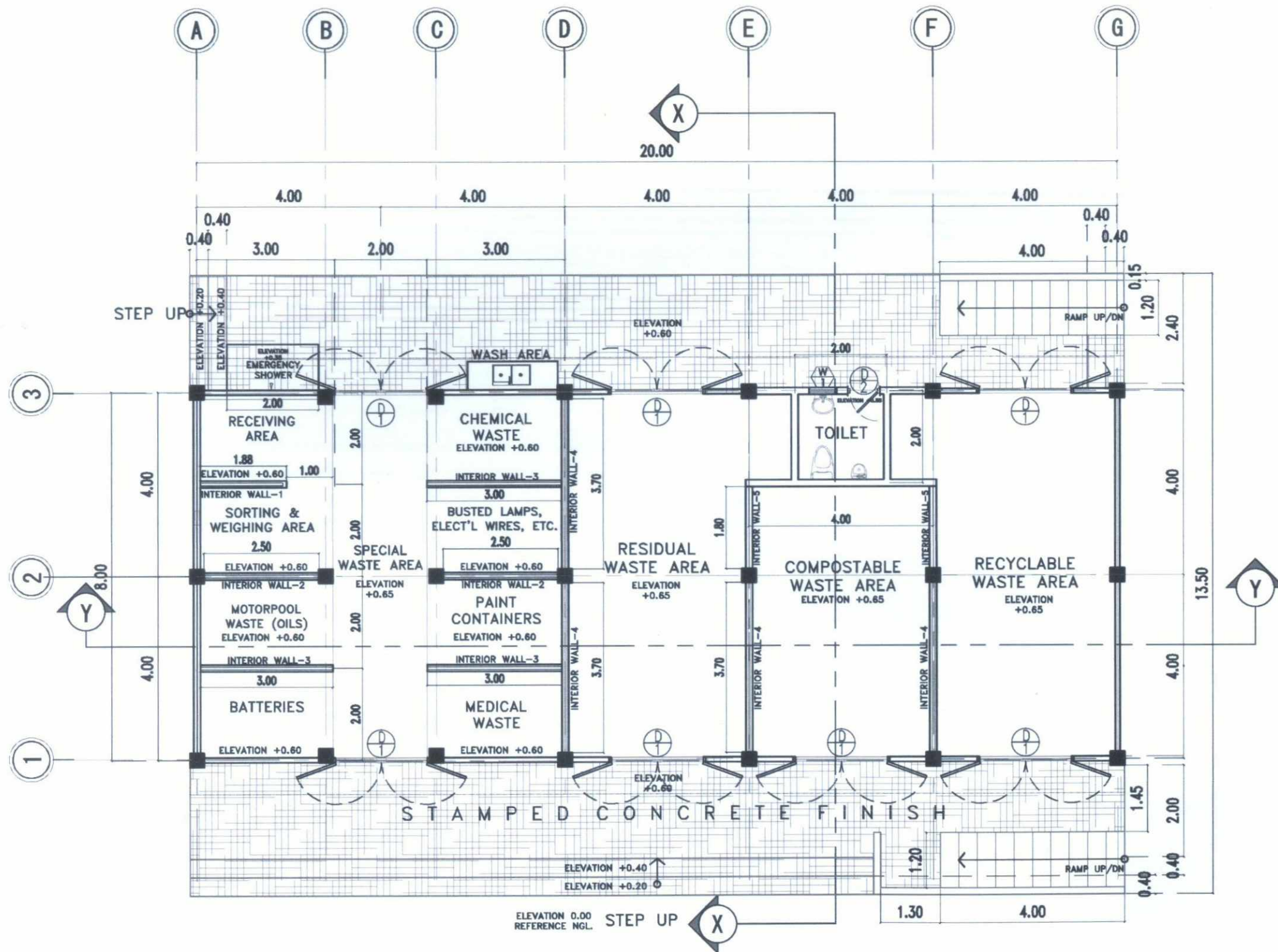


SCALE: 1: 150 METERS



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

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS							AS SHOWN	A-04
PROJECT LOCATION:	ARCHITECT, OFDM	HEAD, OFDM-POU	DIRECTOR, OFDM	DIRECTOR, OIUH	VP FOR ADMINISTRATION	PRESIDENT	DATE: JUNE 2025	PAGE NO: 37/64
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
[Signature]
AR. ULYSSES B. CALUYA
ARCHITECT, OFDM

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

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

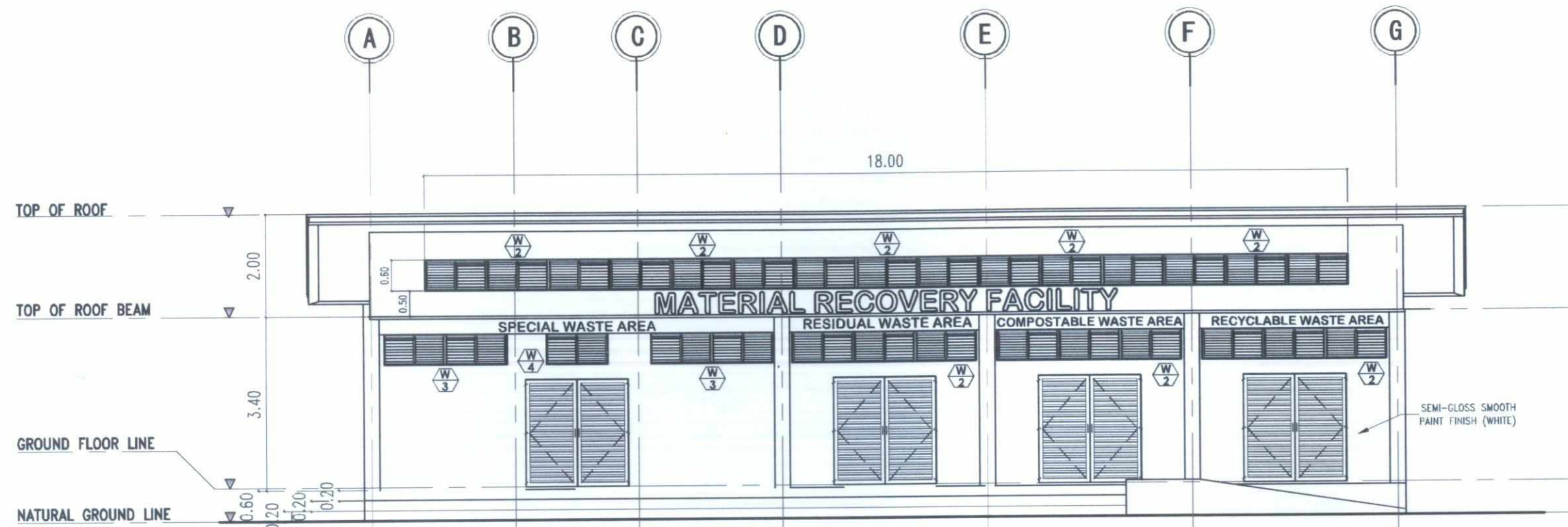
REQUESTING OFFICE:
[Signature]
DR. ROMMEL M. HERNANDEZ
DIRECTOR, OMS

RECOMMENDING APPROVAL:
[Signature]
ATTY. GHEROLD A. BENITEZ
ATTY. WILMAR J. RAMOS, DBA
VP FOR ADMINISTRATION

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

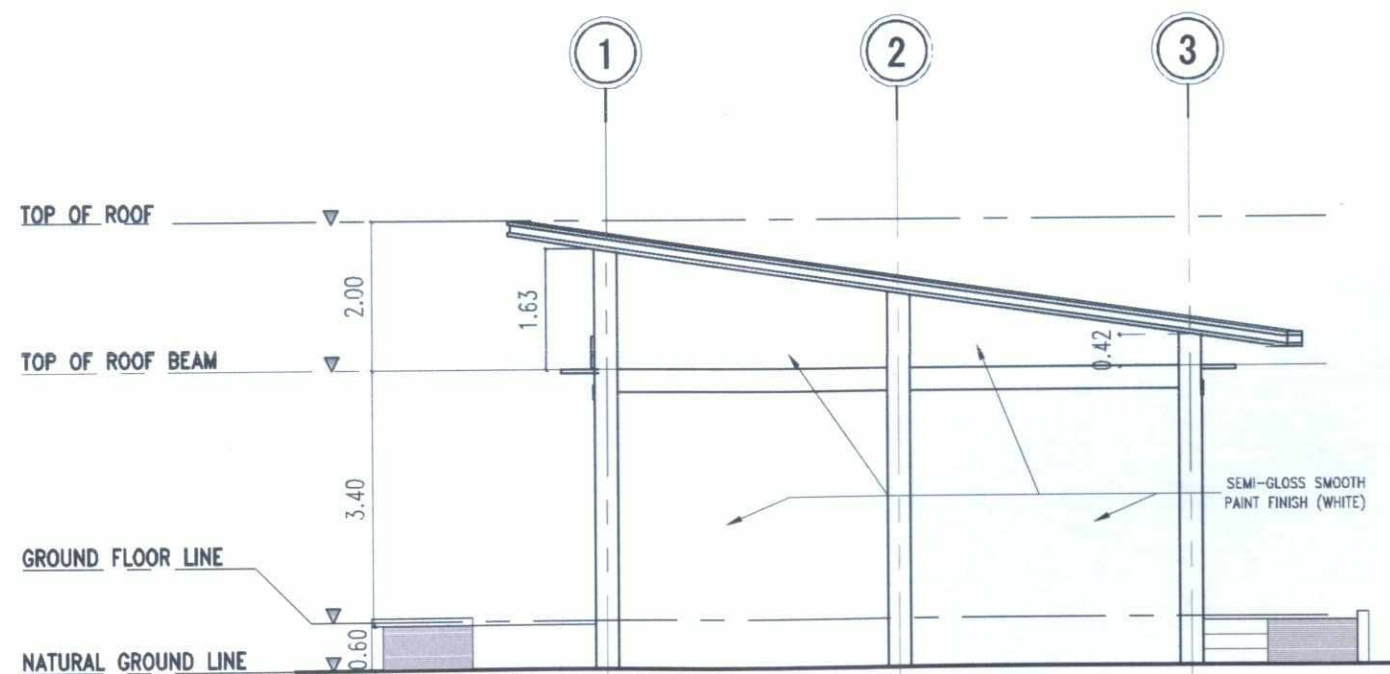
SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
A-05
PAGE NO:
38/64



FRONT ELEVATION

SCALE: 1: 100 METERS



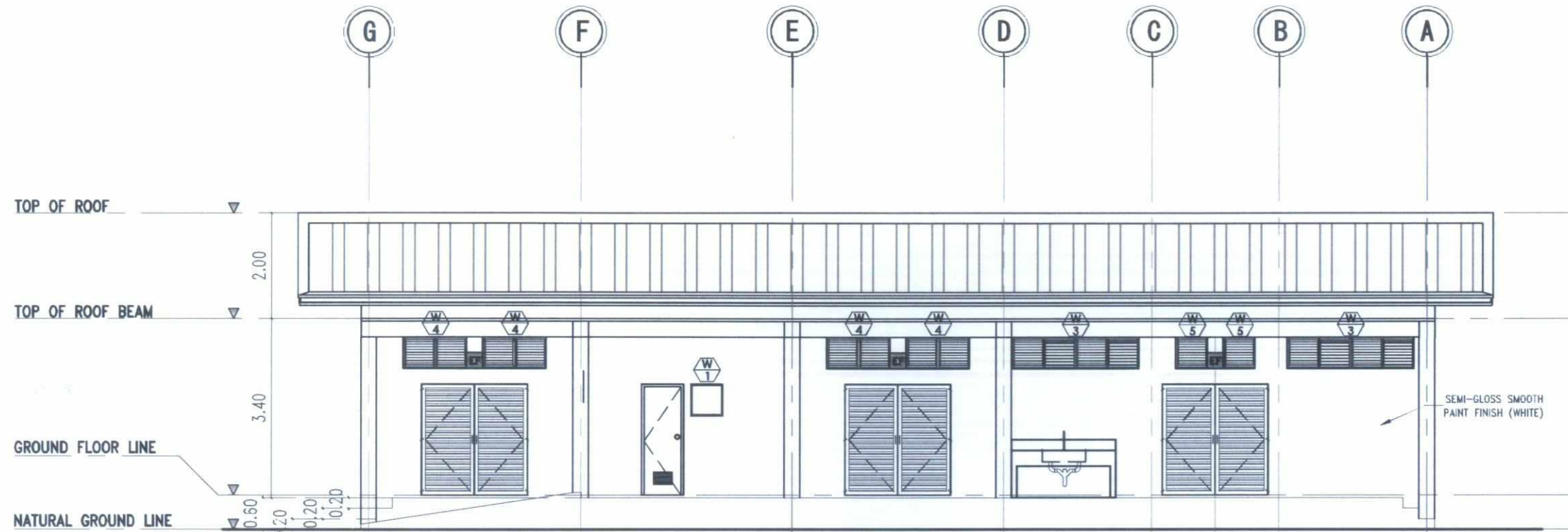
RIGHT-SIDE ELEVATION

SCALE: 1: 100 METERS



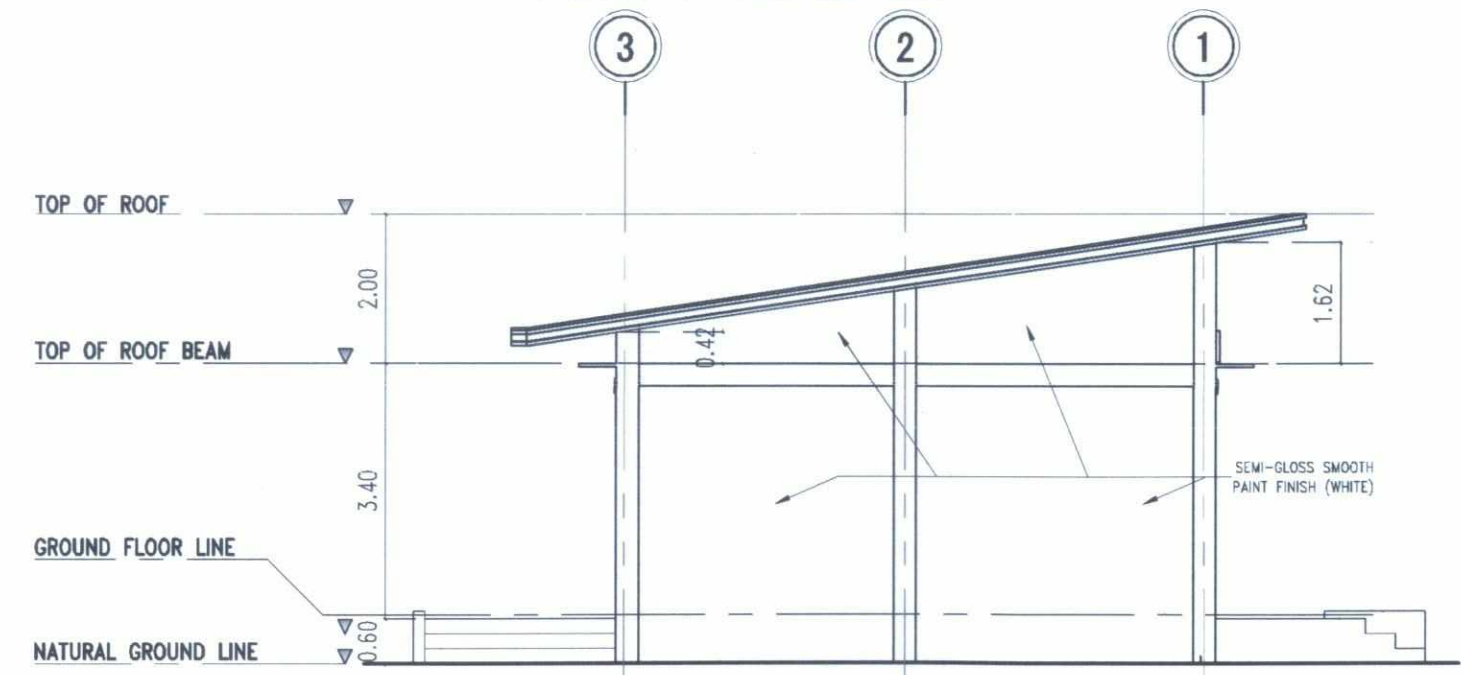
TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:	CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	PREPARED BY:	AR. ULYSSES B. CALUYA ARCHITECT, OFDM	CHECKED BY:	AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY:	AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:	DR. ROMMEL M. HERNANDEZ DIRECTOR, OHS	RECOMMENDING APPROVAL:	ATTY. FHEROLD C. BENITEZ ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED:	DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS:	AS SHOWN	SHEET NO:	A-06
PROJECT LOCATION:	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY													DATE: JUNE 2025		PAGE NO:	39/64



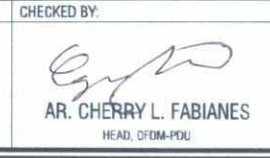
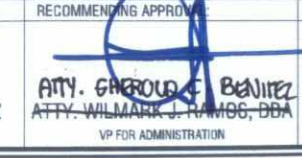
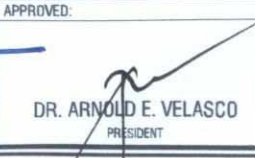
REAR ELEVATION

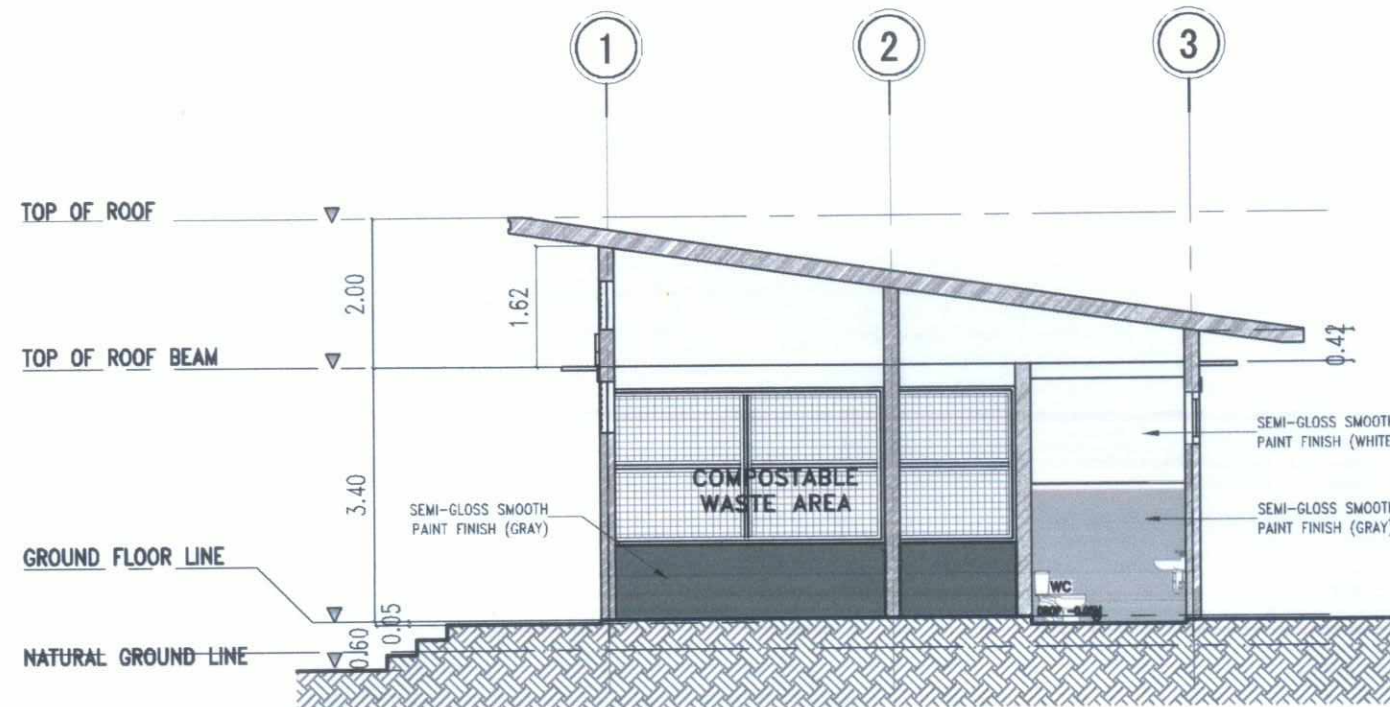
SCALE: 1: 100 METERS



LEFT-SIDE ELEVATION

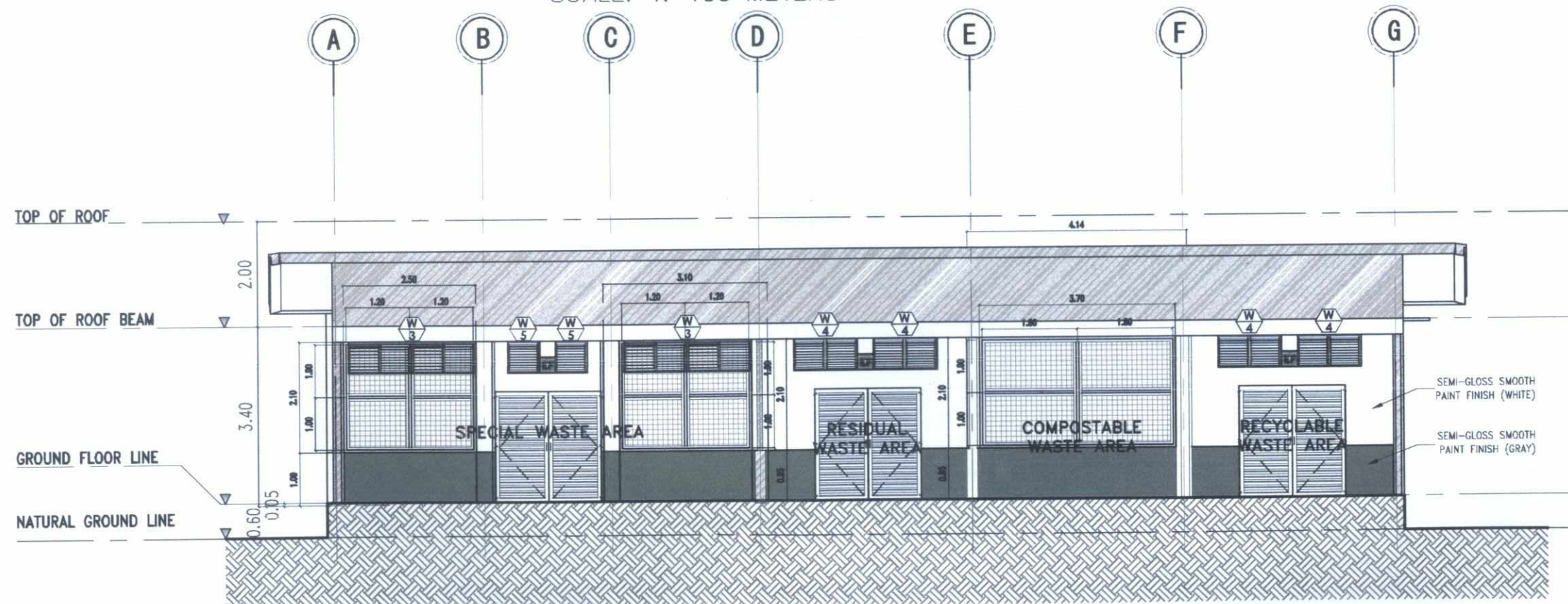
SCALE: 1: 100 METERS

	TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	PREPARED BY:  AR. ULYSSES B. CALUYA ARCHITECT, OFDM	CHECKED BY:  AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY:  AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:  DR. ROMMEL M. HERNANDEZ DIRECTOR, DUHS	RECOMMENDING APPROVAL:  ATTY. GABRIEL E. BAUTISTA VP FOR ADMINISTRATION	APPROVED:  DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO: A-07 PAGE NO: 40/64 DATE: JUNE 2025
---	---	---	---	--	--	--	---	--	-----------------------------	---



CROSS SECTION THRU X-X

SCALE: 1: 100 METERS



LONGITUDINAL SECTION THRU Y-Y

SCALE: 1: 100 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. CRYSTIAN B. CALUYA
ARCHITECT, OFDM

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

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

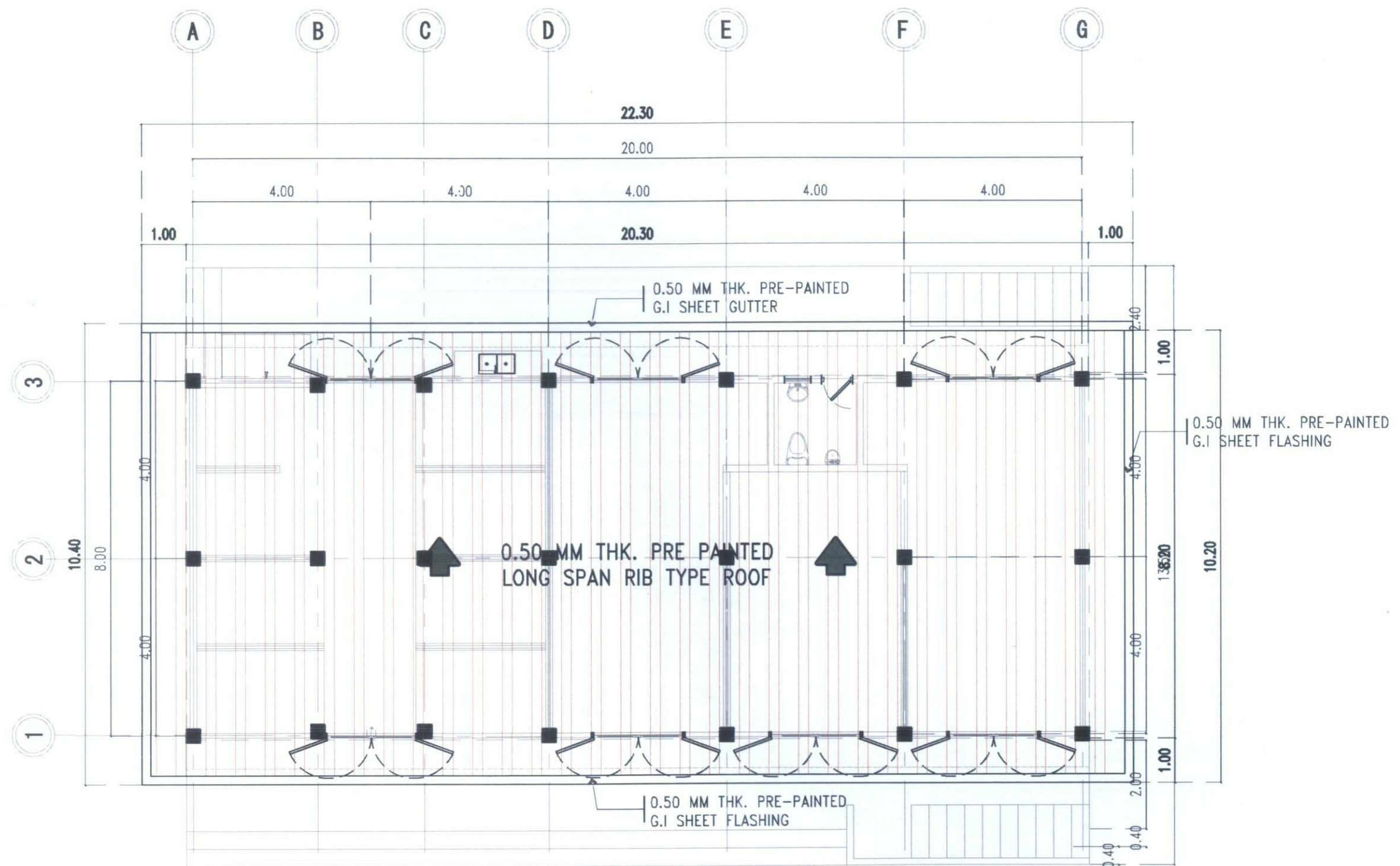
REQUESTING OFFICE:
DR. ROMMEL M. HERNANDEZ
DIRECTOR, OIRHS

RECOMMENDING APPROVAL:
ATTY. GERALD O. BENITEZ
ATTY. WILMARK D. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
A-08
PAGE NO:
41/64



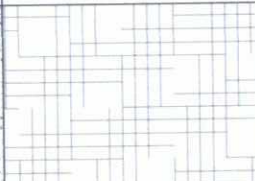
PROPOSED ROOF PLAN

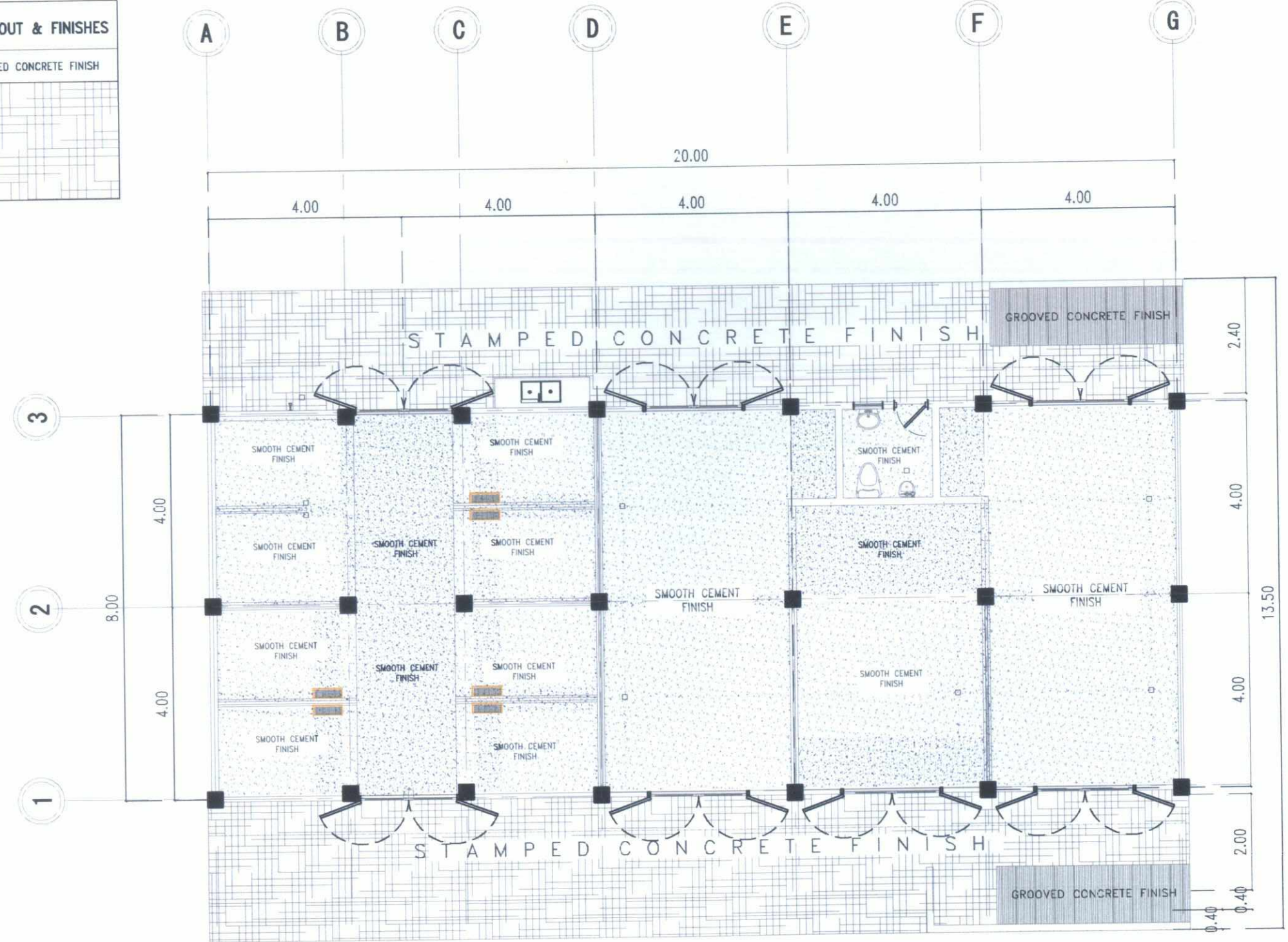
SCALE: 1: 100 METERS



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

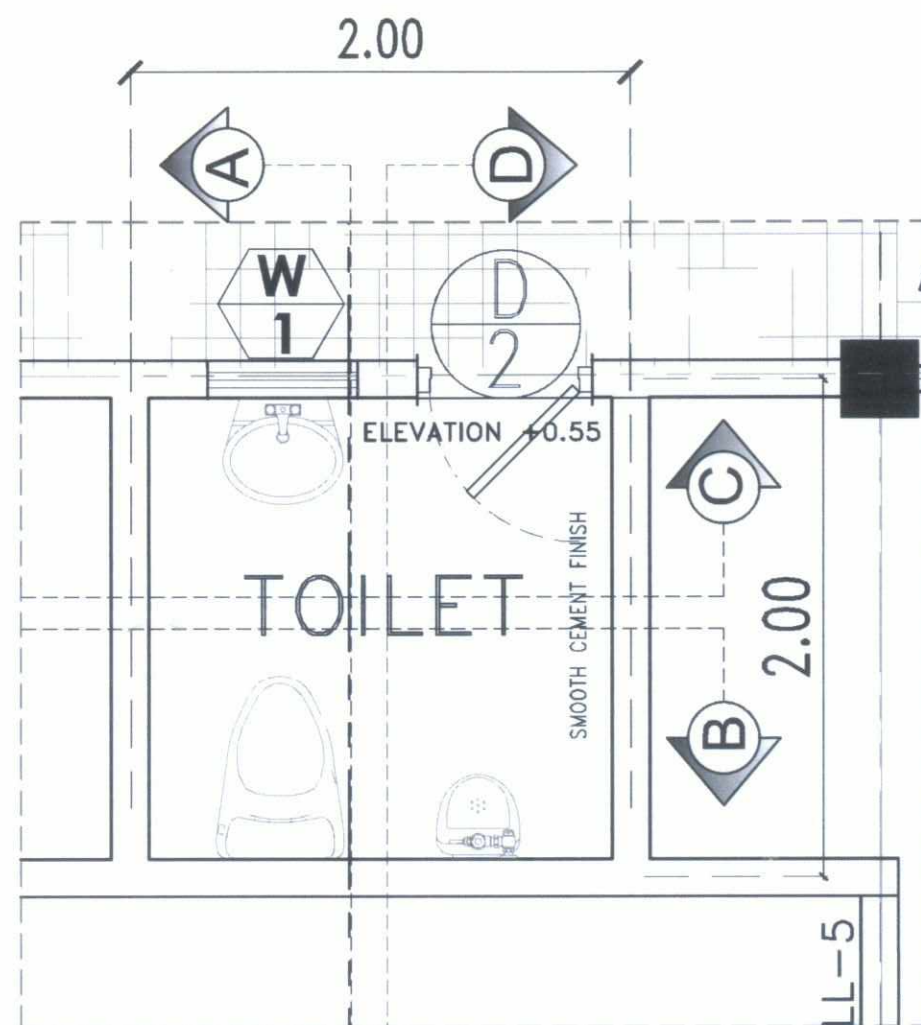
PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	PREPARED BY: AR. ULYSSES B. CALUYA ARCHITECT, OFDM	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ROMMEL M. HERNANDEZ DIRECTOR, OHS	RECOMMENDING APPROPRIAL: ATTY. WILMARK J. RAMOS, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: JUNE 2025	SHEET NO: A-09 PAGE NO: 42/64
--	--	---	---	--	--	---	--	--

SCHEDULE OF FLOOR TILE LAYOUT & FINISHES	
SMOOTH CEMENT FINISH	STAMPED CONCRETE FINISH
	



GROUND FLOOR FINISHES
SCALE: 1: 100 METERS

 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 MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	AR. LILYSSES B. CALUYA	AR. CHERRY L. FABIANES	AR. ARLEN M. GUIEB	DR. ROMMEL M. HERNANDEZ	ATTY. GHEROLD C. BERNIER	DR. ARNOLD E. VELASCO	AS SHOWN	A-10
	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY	ARCHITECT, OFDM	HEAD, OFDM-PDU	DIRECTOR, OFDM	DIRECTOR, OUMS	VP FOR ADMINISTRATION	PRESIDENT	DATE: JUNE 2025	PAGE NO: 43/64



BLOW-UP MALE TOILET FLOOR PLAN

SCALE: 1: 30 METERS



ACRYLIC CLEAR GLASS SIGNAGE

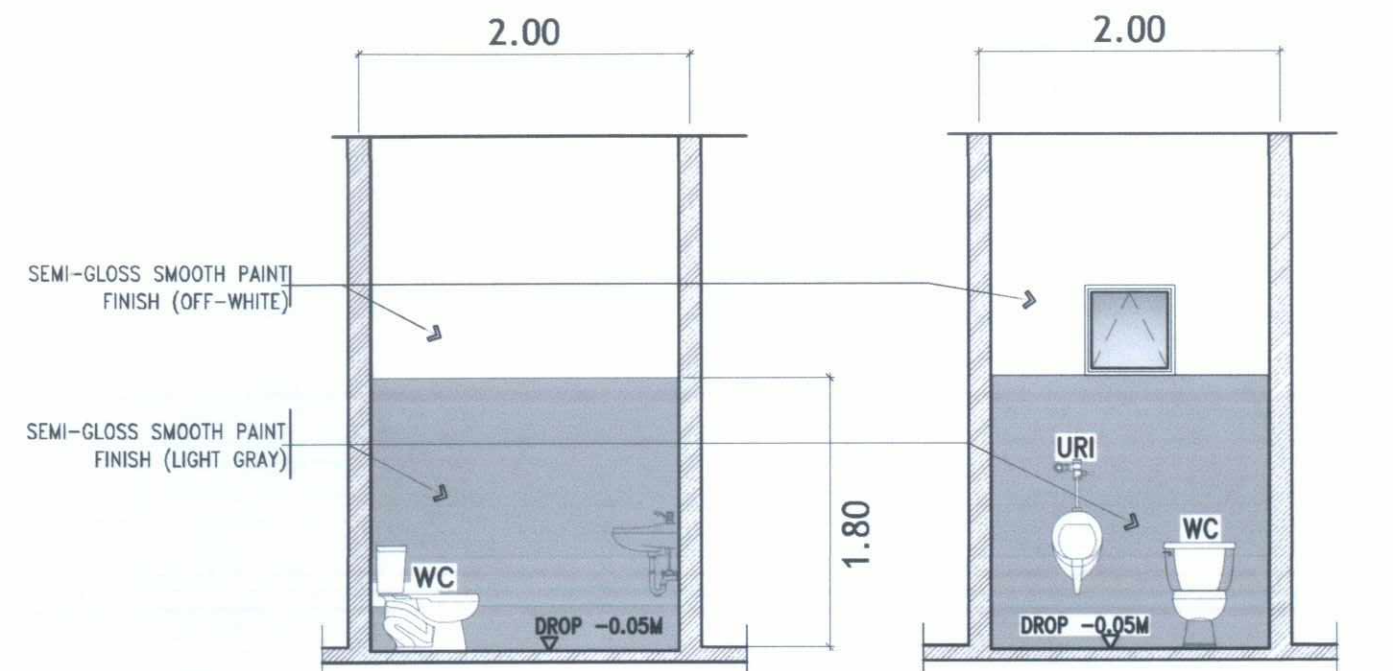
SIGNAGE SPECIFICATION:

PROPORTIONED LETTERING ON 3mm thk. x 150mm x 450mm
CLEAR ACRYLIC GLASS WITH 2pcs. 8mmx17mm ACRYLIC
GLASS FIXING BOLT SCREWS

NOTE: THE FONT STYLE, FONT SIZE, TEXT CONTENT
SHALL BE FOR APPROVAL.

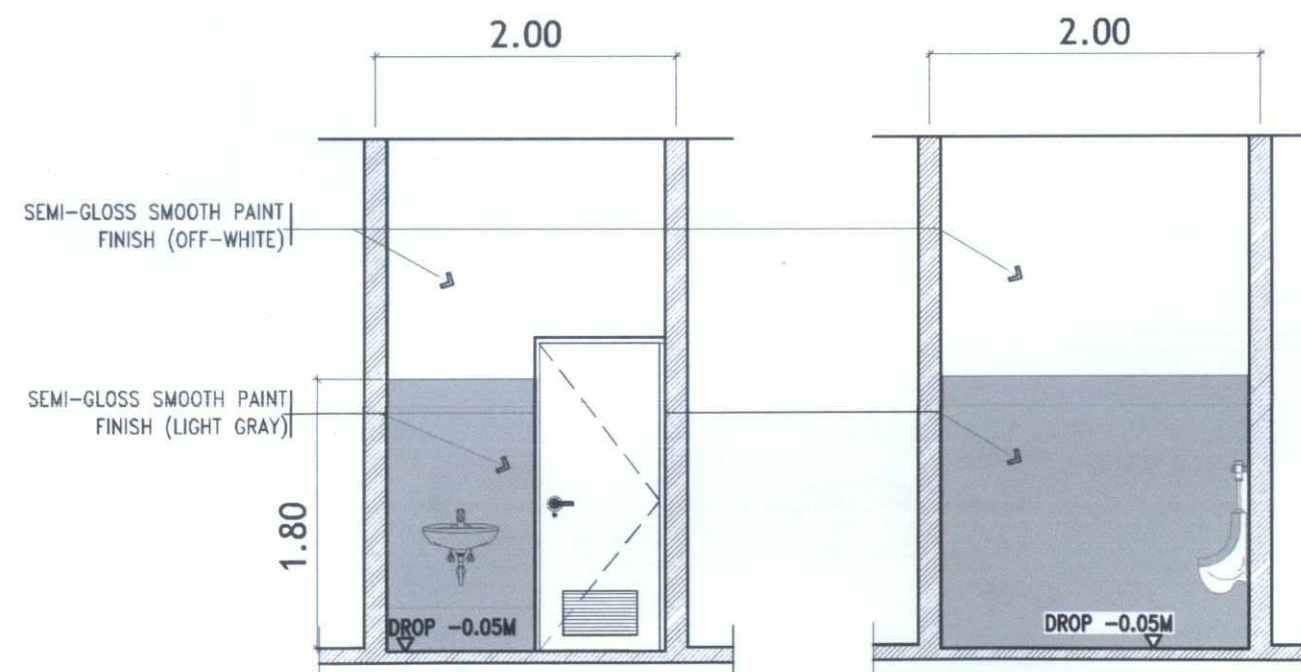
TOILET SIGNAGE DETAIL

SCALE
1:8 MTS



SECTIONAL ELEVATION @ A
SCALE 1:50M

SECTIONAL ELEVATION @ B
SCALE 1:50M



SECTIONAL ELEVATION @ C
SCALE 1:50M

SECTIONAL ELEVATION @ D
SCALE 1:50M



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
ARCHITECT, OEDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUMS

RECOMMENDING APPROVAL:

ATTY. CHERO C. BENITEZ
ATTY. WILMARK P. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:

AS SHOWN

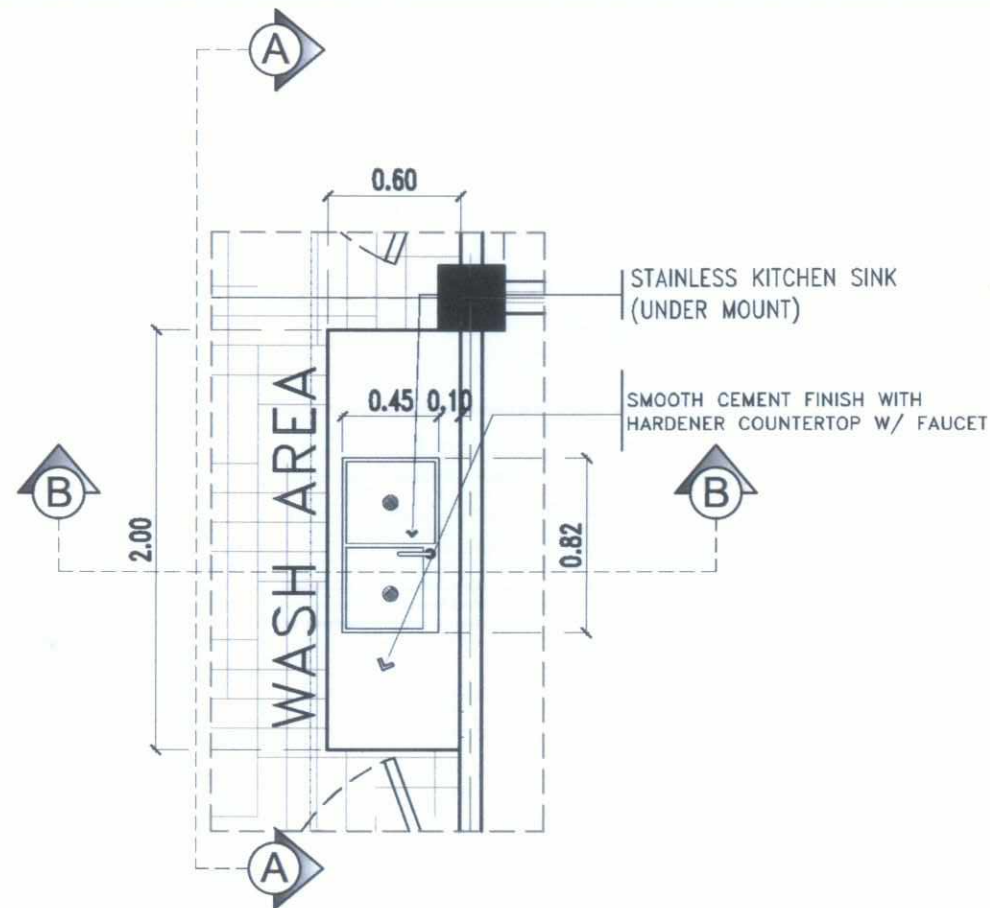
DATE: JUNE 2025

SHEET NO:

A-11

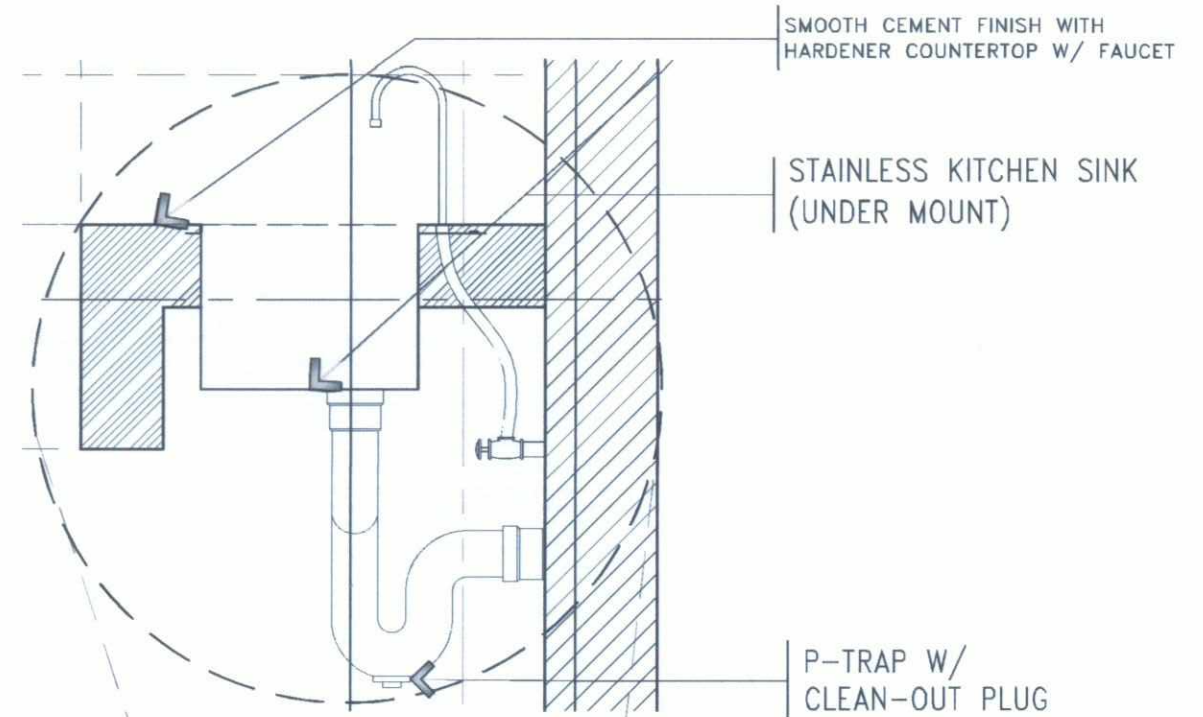
PAGE NO:

44/64



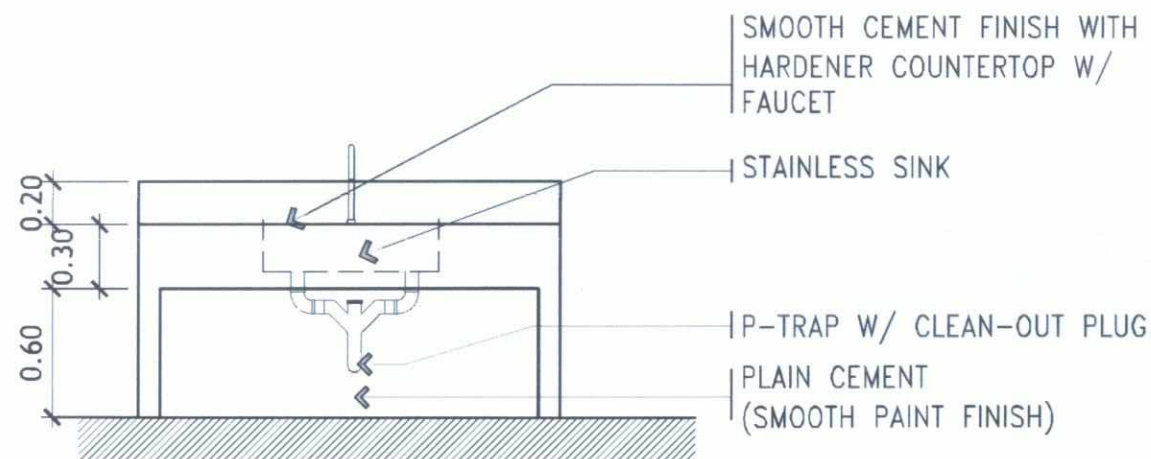
BLOW-UP WASH AREA PLAN

SCALE: 1: 40 METERS



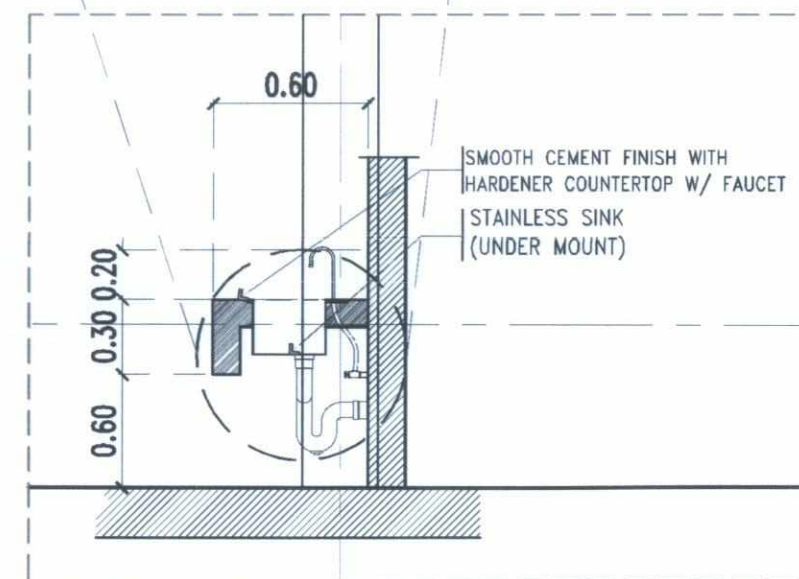
KITCHEN SINK DETAIL

SCALE: 1:15 METERS



SECTIONAL ELEVATION A

SCALE: 1: 35 METERS



SECTIONAL ELEVATION B

SCALE: 1: 30 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. GYLSSES B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUMS

RECOMMENDING APPROVAL:

ATTY. GHEROLD S. BENITEZ
ATTY. WILMARK L. FARMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:

AS SHOWN

DATE: JUNE 2025

SHEET NO:

A-12

PAGE NO:

45/64

D1	7 SETS	D2	1 SET
LOCATION : HAZARDOUS WASTE AREA, NON-BIODEGRADABLE WASTE AREA, BIODEGRADABLE WASTE AREA & RECYCLABLE WASTE AREA		LOCATION : TOILET	
SINGLE SWING STEEL LOUVER DOOR (SMOOTH PAINT FINISH) FRAMING: 2" X 3" X 1.5mm THK. GI TUBULAR LOUVERS: 0.5mm THK. PRE-PAINTED G.I. SHEET ACCESSORIES: 3/4" # HEAVY DUTY CYLINDRICAL HINGES, 12MM ROUND BAR HANDLE WITH HEAVY DUTY PADLOCK		SINGLE SWING STEEL DOOR WITH LOUVERS (SMOOTH PAINT FINISH) DOOR & JAMB: 0.50mm thk. W/ SOUND PROOF SEAL STRIP (SELF ADHESIVE RUBBER) KNOB: HEAVY DUTY DOME TYPE LOCKSET HINGES: HEAVY DUTY HINGES OTHERS: COMPLETE ACCESSORIES	

W1	QUANTITY : 01 SET LOCATION : TOILET	W2	QUANTITY : 08 SETS LOCATION : FACADE AND REAR WALL	W3	QUANTITY : 04 SETS LOCATION : FACADE AND REAR WALL	W4	QUANTITY : 05 SETS LOCATION : FACADE AND REAR WALL	W5	QUANTITY : 02 SETS LOCATION : FACADE AND REAR WALL
DESCRIPTION : WHITE POWDER COATED ALUMINUM AWNING WINDOW WITH 6mm THK. ONE WAY REFLECTIVE GLASS (exterior) WITH COMPLETE ACCESSORIES		DESCRIPTION : STEEL LOUVER FIX WINDOW (SMOOTH PAINT FINISH) FRAMING: 2" X 3" X 1.5mm THK. GI TUBULAR LOUVERS: 0.5mm THK. PRE-PAINTED G.I. SHEET		DESCRIPTION : STEEL LOUVER FIX WINDOW (SMOOTH PAINT FINISH) FRAMING: 2" X 3" X 1.5mm THK. GI TUBULAR LOUVERS: 0.5mm THK. PRE-PAINTED G.I. SHEET		DESCRIPTION : STEEL LOUVER FIX WINDOW (SMOOTH PAINT FINISH) FRAMING: 2" X 3" X 1.5mm THK. GI TUBULAR LOUVERS: 0.5mm THK. PRE-PAINTED G.I. SHEET		DESCRIPTION : STEEL LOUVER FIX WINDOW (SMOOTH PAINT FINISH) FRAMING: 2" X 3" X 1.5mm THK. GI TUBULAR LOUVERS: 0.5mm THK. PRE-PAINTED G.I. SHEET	

SCHEDULE OF DOORS AND WINDOWS

SCALE: 1: 70 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUMS

RECOMMENDING APPROVAL:

ATTY. GHERON O. BENITEZ
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

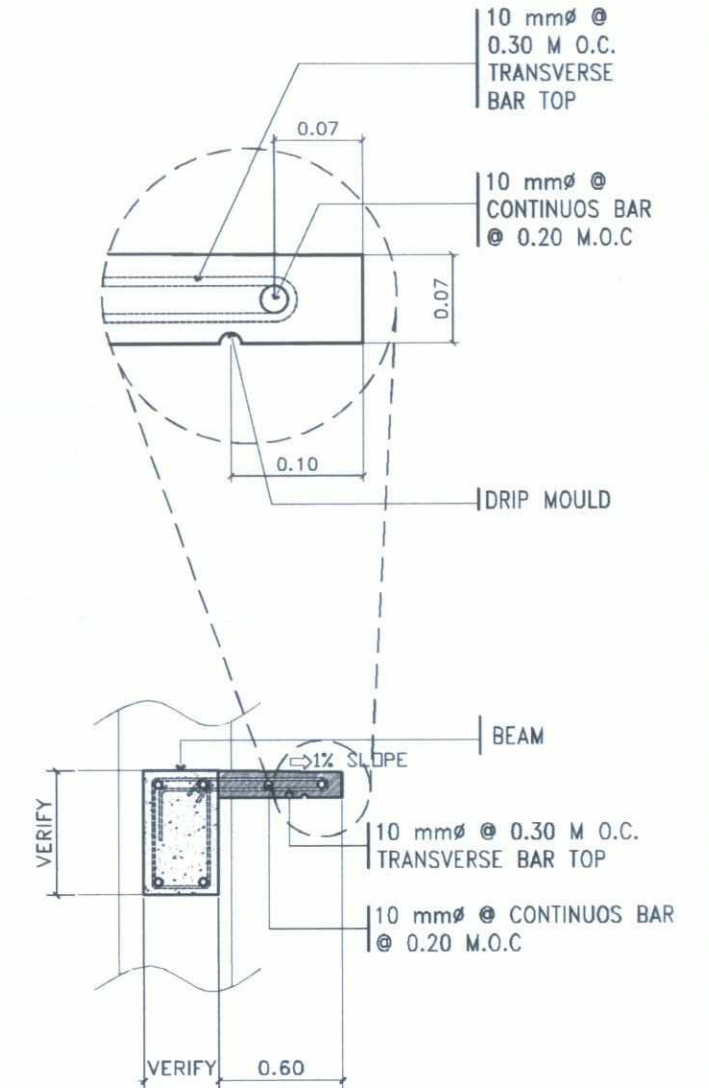
SHEET NO:
A-13
PAGE NO:
46/64

NOTE:
ALL STEEL MEMBERS SHALL BE
EPOXY PRIMER PAINTED.

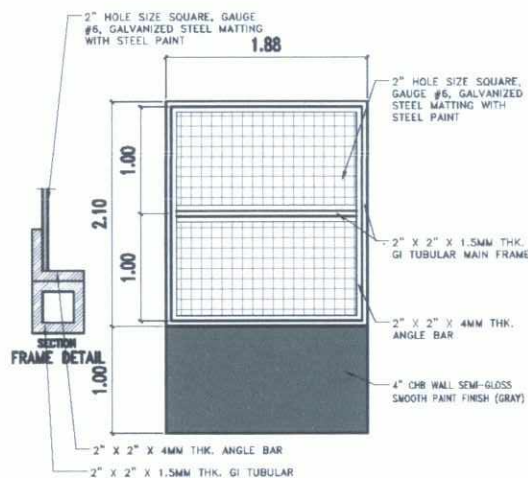
SCHEDULE OF WALL FINISHES

GROUND FLOOR OF FINISHES

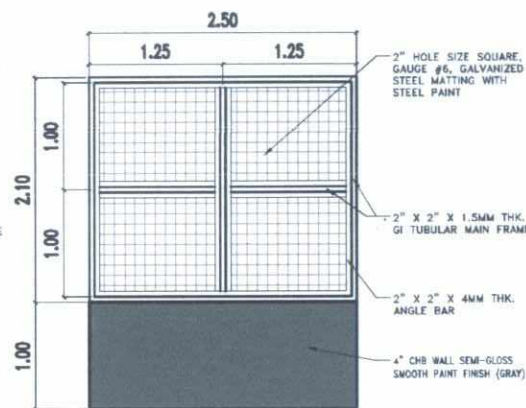
AREA / ROOM	WALL FINISHES (FACING THE FLOOR PLAN)				CEILING FINISHES
	N	S	E	W	FINISH
RECEIVING AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
SORTING & WEIGHING AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
SPECIAL WASTE AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
RESIDUAL WASTE AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
COMPOSTABLE WASTE AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
RECYCLABLE WASTE AREA	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
FEMALE TOILET WITH SHOWER	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	
MALE TOILET WITH SHOWER	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	SEMI-GLOSS SMOOTH PAINT FINISH (WHITE & GRAY)	



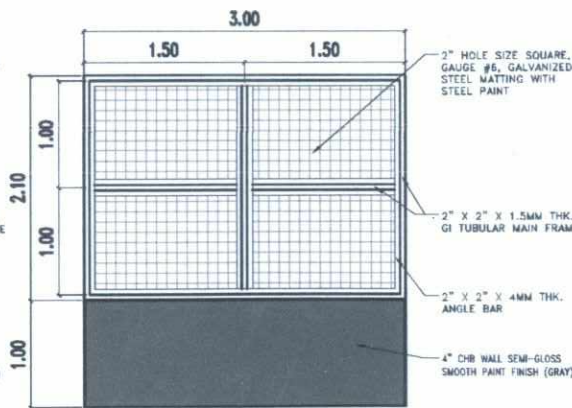
TYPICAL LEDGE SPOT DETAIL
SCALE: NTS



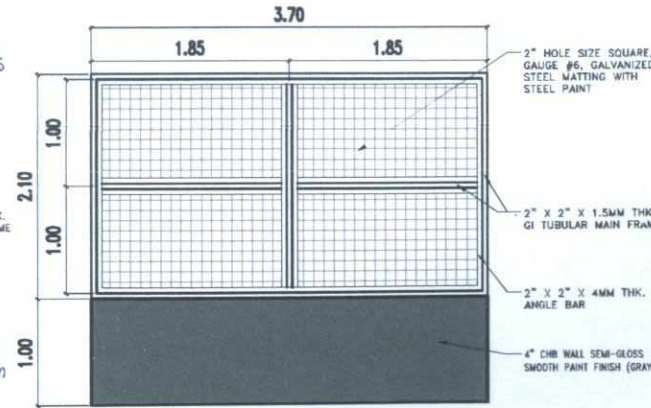
INTERIOR WALL-1
SCALE: 1: 70 METERS



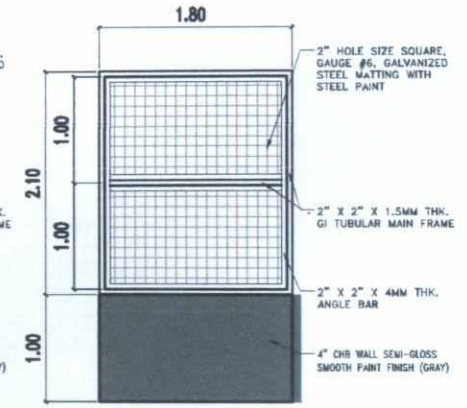
INTERIOR WALL-2
SCALE: 1: 70 METERS



INTERIOR WALL-3
SCALE: 1: 70 METERS



INTERIOR WALL-4
SCALE: 1: 70 METERS



INTERIOR WALL-5
SCALE: 1: 70 METERS



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

PROJECT TITLE:	CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:


AR. ULYSSES B. CALUYA
ARCHITECT, CDR.

CHECKED BY:


AR. CHERRY L. FABIANES
HEAD, DEEDMILL

CERTIFIED BY:


AR. ARLEN M. GUIEB
DIRECTOR, OEDM

REQUESTING OFFICE: 

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OJHS

RECOMMENDING APPROVAL:



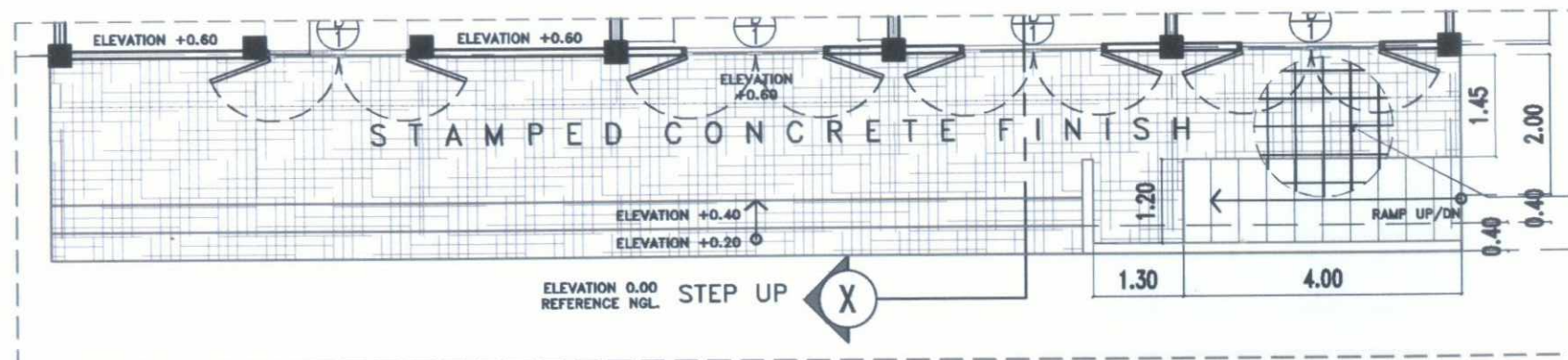
RITY. CHEROLD C. BENITEZ
ATTY. WILMARLY RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:



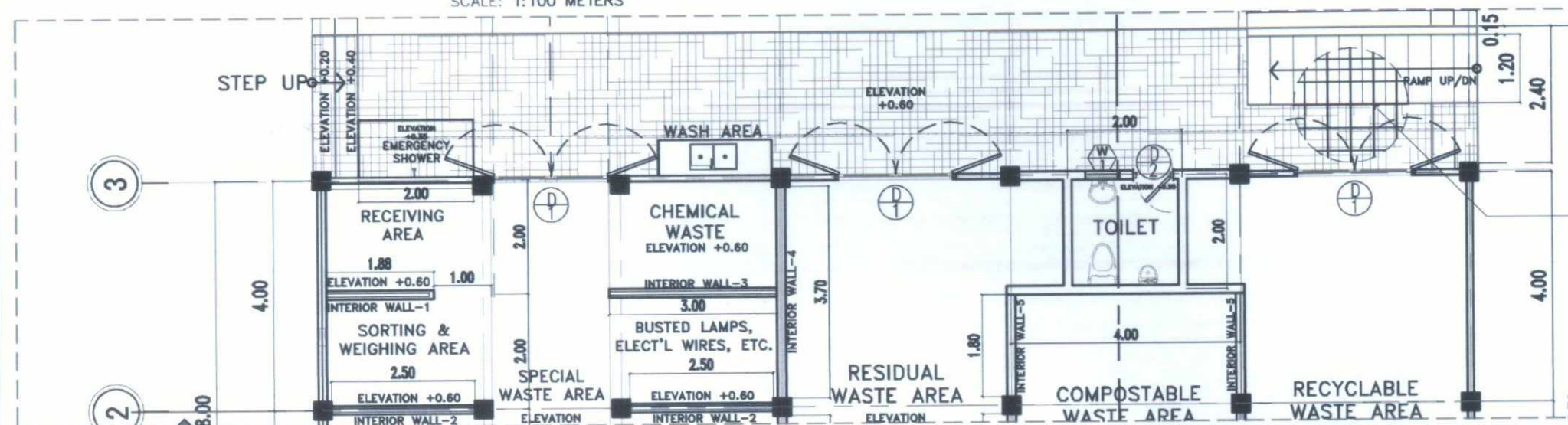
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:	SHEET NO:
AS SHOWN	A-14
	PAGE NO:
DATE: JUNE 2025	47/64



FRONT STEP BLOW-UP PLAN

SCALE: 1:100 METERS



REAR STEP BLOW-UP PLAN

SCALE: 1:100 METERS



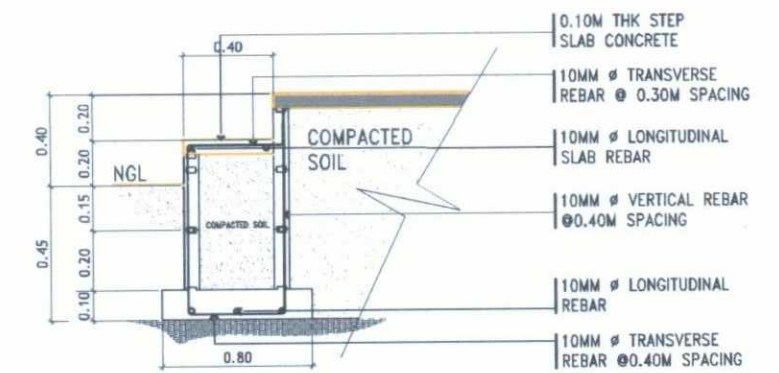
LETTER HEAD DETAIL

SCALE: 1:50 METERS



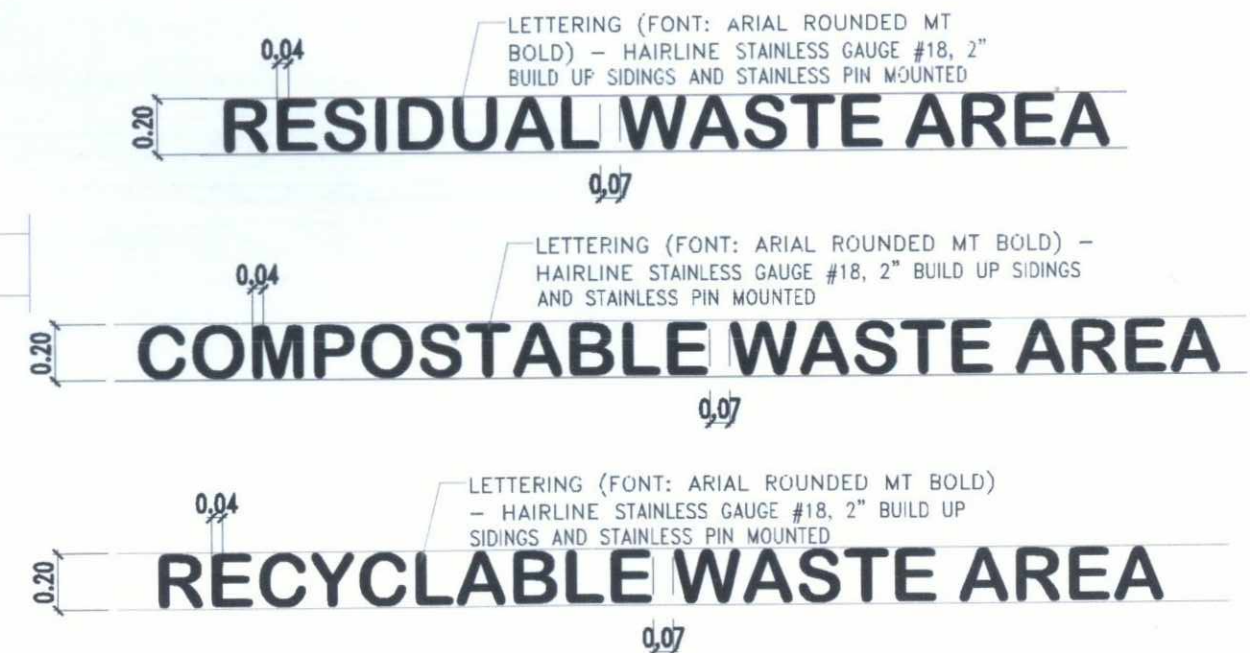
TYPICAL ROOM SIGNAGE DETAIL

SCALE: 1:30 METERS



TYPICAL STEP CHB FOOTING DETAILS

SCALE: 1: 25 METERS



TYPICAL ROOM SIGNAGE DETAIL

SCALE: 1: 25 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

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

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

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

REQUESTING OFFICE:
DR. ROMMEL M. HERNANDEZ
DIRECTOR, DUHS

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

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO.:
A-15
PAGE NO.:
48/64

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	3000 PSI	3/4 in.	4 in.
COLUMNS & PEDESTALS	3000 PSI	3/4 in.	4 in.
BEAMS & GIRDERS	3000 PSI	3/4 in.	4 in.
SUSPENDED SLABS	3000 PSI	3/4 in.	4 in.
SLAB ON GRADE	2500 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 THE 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 MATERIAL 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 (276 MPa)
12mmØ & ABOVE	GRADE 40 (276 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	20mm
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/TIES 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 @ 600mm O.C.	10mmØ @ 600mm O.C.
125mm	10mmØ @ 600mm O.C.	10mmØ @ 600mm 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 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
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. JESSE B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-PDU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, DUHS

RECOMMENDING APPROVAL:

ATTY. GUEROU D. Benitez
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:

AS SHOWN

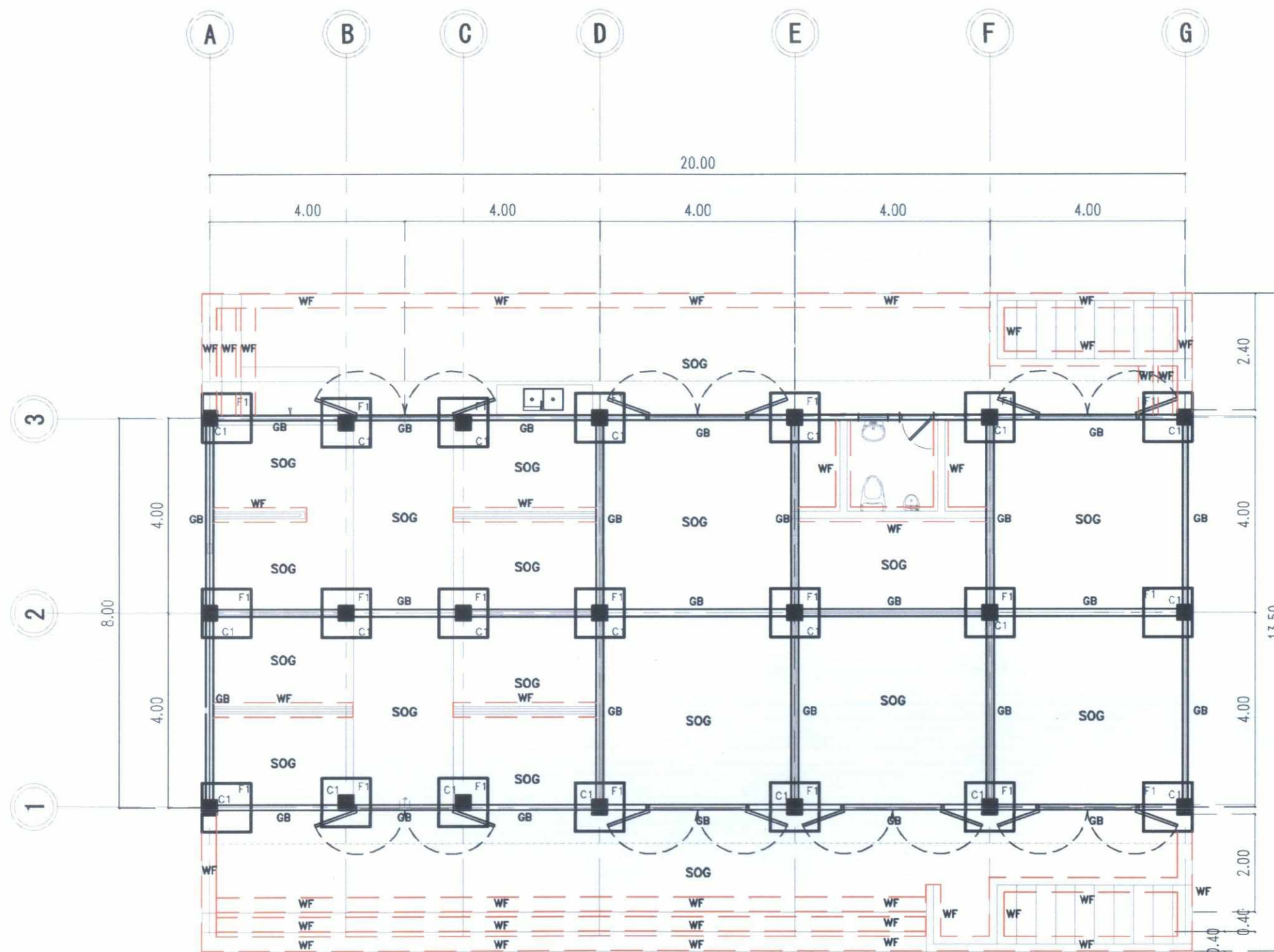
DATE: MAY 2025

SHEET NO:

S-01

PAGE NO:

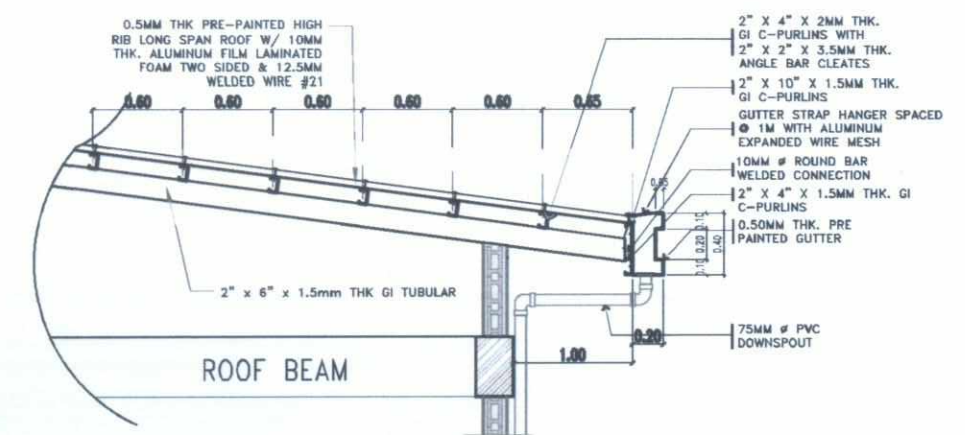
49/66



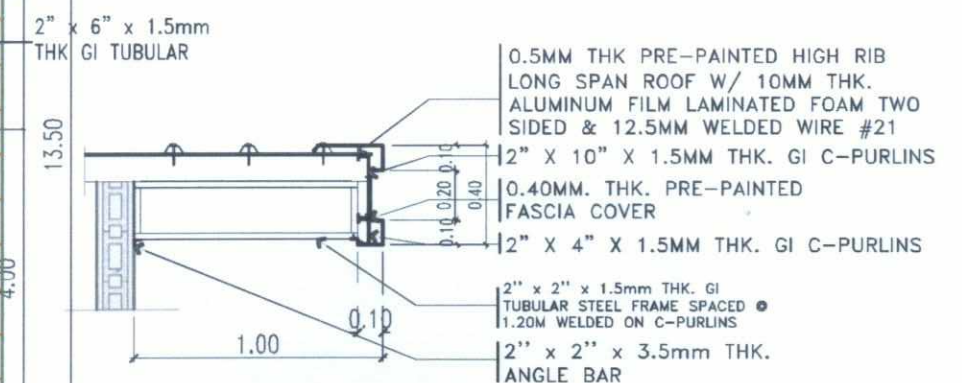
GROUND FLOOR FOUNDATION PLAN
SCALE: 1: 100 METERS

 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 MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS	AR. ULYSSES B. CALUYA ARCHITECT, OFDM	AR. CHERRY L. FABIANES HEAD, OFDM-POL	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ROMMEL M. HERNANDEZ DIRECTOR, OHS	ATTY. GHEROLDO S. DENITEZ ATTY. WILMARK J. RAMOS, DDA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	S-02
	PROJECT LOCATION: LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY								PAGE NO: 50/66
								DATE: MAY 2025	

Structural drawing of a roof truss system. The drawing shows a plan view of the roof structure with rafters and purlins. The rafters are labeled "RAFTER-1" and the purlins are labeled "C-PURLINS @ 0.60M.O.C". The drawing includes dimensions for the spacing of the rafters and purlins, and a note indicating the use of "10MM Ø SAG ROD W/ NUTS AND WASHER".



SCALE: 1: 50 METERS



SCALE: 1: 30 METERS

SCALE: 1: 100 METERS

TENSION LAP SPLICE LENGTHS								
BAR SIZE	fc' = 3,000 PSI				fc' = 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	760	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

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

The diagram illustrates the detailing of two types of bar hooks:

- 180° Hook:**
 - DETAILING DIMENSION:** The total length of the hook.
 - Bar Size:** The diameter of the bar.
 - Hook A or G:** The length of the hook.
 - J:** The distance from the end of the bar to the start of the hook.
 - D:** The diameter of the hook.
 - 4d or 60mm:** The length of the hook.
 - 180°:** The angle of the hook.
- 90° Hook:**
 - DETAILING DIMENSION:** The total length of the hook.
 - Bar Size:** The diameter of the bar.
 - A or G:** The length of the hook.
 - 12d:** The length of the hook.
 - 90°:** The angle of the hook.

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

The diagram illustrates the detailing dimensions for two types of bar hooks: a 90° hook and a 135° hook.

90° Hook:

- DETAILING DIMENSION:** The vertical dimension of the hook.
- A or G:** The horizontal dimension of the hook.
- D:** The diameter of the bar.
- Bar Size:** The size of the bar.

135° Hook:

- DETAILING DIMENSION:** The vertical dimension of the hook.
- HOOK A or G:** The horizontal dimension of the hook.
- D:** The diameter of the bar.
- 6d:** The length of the hook.
- H:** The height of the hook.
- Bar Size:** The size of the bar.

10mm $\varnothing$ VERTICAL BARS @ 0.60M SPACING

CHB

10mm $\varnothing$ HORIZONTAL BARS @ 0.60M SPACING

TYPICAL DETAIL OF WALL TO SLAB CONNECTION

BAR SIZE	$f_c' = 2,500 \text{ PSI}$	$f_c' = 3,000 \text{ PSI}$	$f_c' = 4,000 \text{ PSI}$
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

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

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



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

PROJECT TITLE:	CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:


AR. ULYSSES B. CALUYA
ADJUTANT CORM

CHECKED BY:



AR. CHERRY L. FABIANES
HEAD, DECD-MDU

CERTIFIED BY:

Ar. Arlen M. Guieb

AR. ARLEN M. GUIEB

DIRECTOR, OEDM

REQUESTING OFFICE: 

DR. ROMMEL M. HERNANDEZ
DIRECTOR, DHS

RECOMMENDING APPROVAL:

ATTY. GHEROLD C. BOUTER
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:



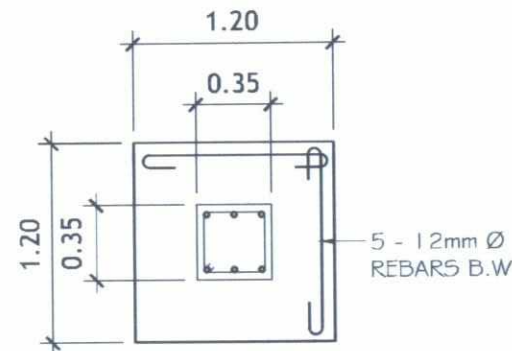
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: MAY 2025

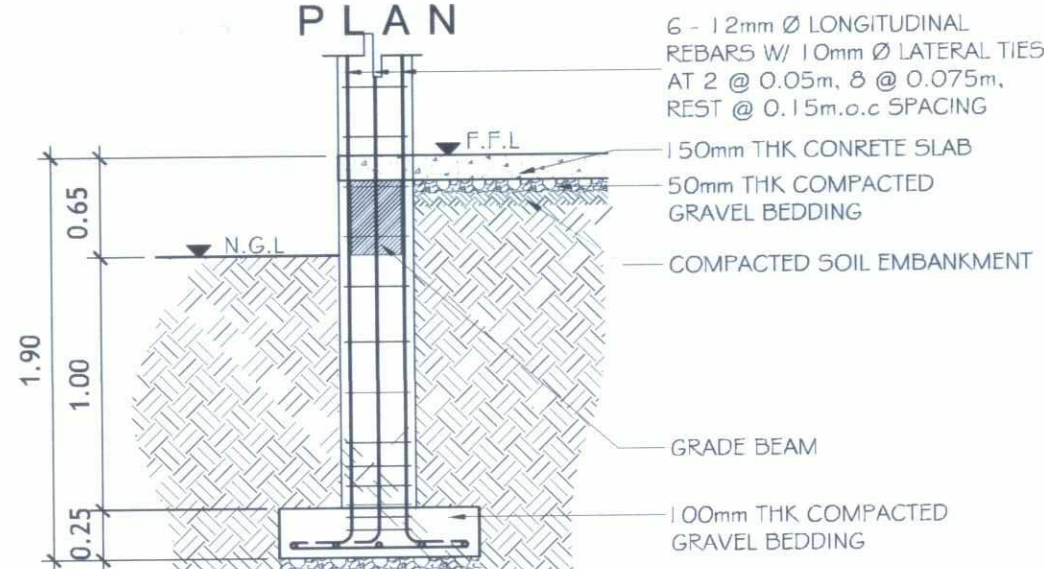
SHEET NO:
S-04
PAGE NO:
52/66

SCHEDULE OF SLAB

MARK	THICKNESS	REINFORCEMENT	EXTERIOR SUPPORT		MIDPANEL		INTERIOR SUPPORT	
			TOP BAR	BOTTOM BAR	TOP BAR	BOTTOM BAR	TOP BAR	BOTTOM BAR
SOG	125mm	ALONG LONG SIDE	N/A	10mm @ 400mm	N/A	10mm @ 400mm	N/A	10mm @ 400mm
		ALONG SHORT SIDE	N/A	10mm @ 400mm	N/A	10mm @ 400mm	N/A	10mm @ 400mm

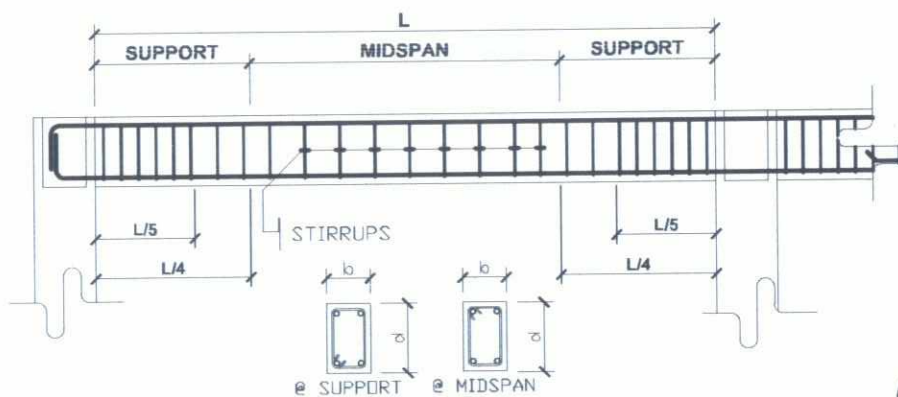


PLAN



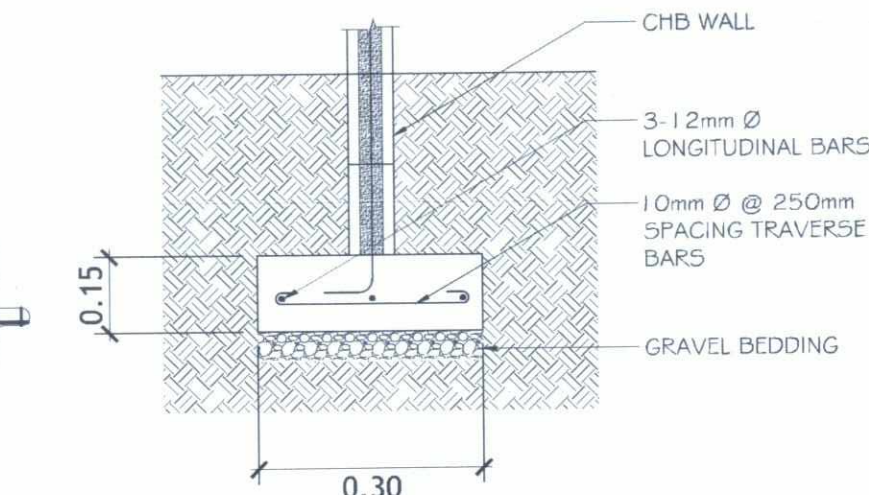
SECTION
COLUMN & FOOTING DETAIL

SCALE 1:30 MTS.



TYPICAL BEAM DETAIL

SCALE: 1: 50 METERS



WALL FOOTING DETAIL

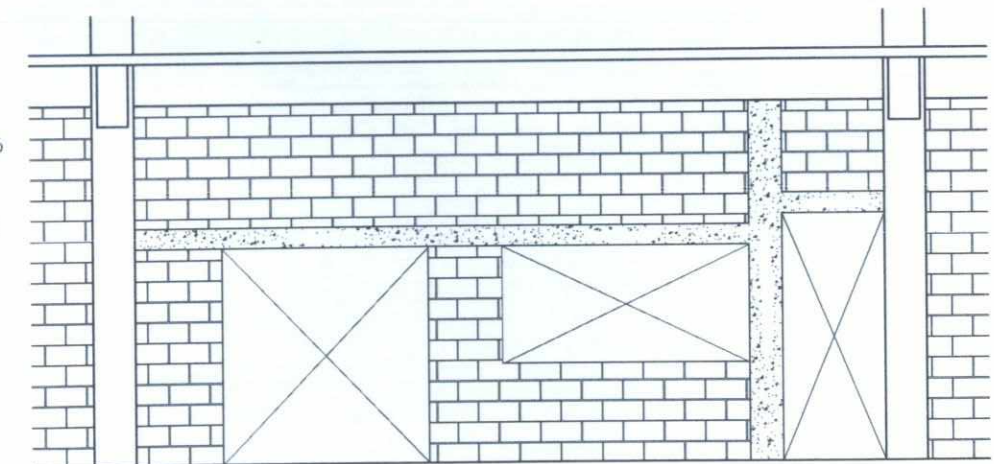
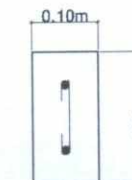
SCALE 1:10 MTS.

SCHEDULE OF COLUMNS

COLUMN MARK	NO. OF SETS	DIMENSION (MM)		FIGURE	LATERAL TIES
C-1	21 SETS	a (width)	b (depth)		10MM D.S.B., 2 @ 0.05M, 8 @ 0.075M, THE REST 0.15M M.O.C
		300	300		

SCHEDULE OF BEAMS

MARK	CONT'. BARS	EXT SUPPORT		MIDSPAN		INT SUPPORT		STIRRUPS			REMARKS
		SECTION	REINF	SECTION	REINF	SECTION	REINF	DIA	NO.	SPACING	
GB	2-12mm top		2-12mm		2-12mm		2-12mm	10mm	2	50	
	2-12mm bot.		2-12mm		2-12mm		2-12mm		10	100	
									REST	200	
									SPLICE	100	
		250x350		250x350		250x350					
RB	2-12mm top		2-12mm		2-12mm		2-12mm	10mm	2	50	
	2-12mm bot.		2-12mm		2-12mm		2-12mm		10	100	
									REST	200	
									SPLICE	100	
		250x350		250x350		250x350					



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY AT
LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. ULYSSES B. CALUYA
ARCHITECT, OFDM

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUPH

RECOMMENDING APPROVAL:

ATTY. GERALD C. RAMIREZ
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: MAY 2025

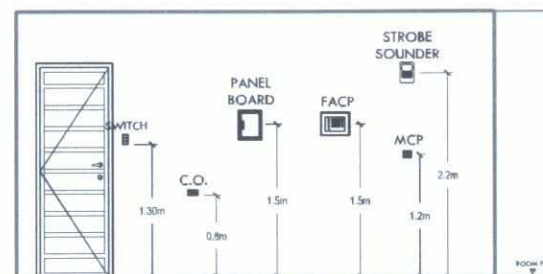
SHEET NO:
S-05
PAGE NO:
53/66

GENERAL NOTES & SPECIFICATIONS

- ALL ELECTRICAL INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH PROVISIONS OF THE LATEST EDITION OF 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 THE REQUIREMENTS OF THE POWER COMPANY CONCERNED.
- ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE SUPERVISION OF A DULY LICENSED REGISTERED ELECTRICAL ENGINEER OR PROFESSIONAL ELECTRICAL ENGINEER.
- MATERIALS THAT PROVIDES SUPPORT, ADDED SAFETY, AND ACCESS, SUCH AS PULL BOXES, JUNCTION BOXES, BENDS AND OTHER FITTINGS SHALL BE PROVIDED EVEN IF NOT EXPLICITLY STATED IN THE PLAN.
- THE ELECTRICAL SERVICE ENTRANCE POWER FOR THE BUILDING SHALL BE 230V, SINGLE PHASE, 2-WIRE + GROUND, 60 HZ.
- WIRES SHALL BE COLOR CODED AS FOLLOWS:
LINE 1 --- RED LINE 2 --- BLACK GROUND --- GREEN
- WIRING METHOD SHALL BE AS FOLLOWS:
a. FOR EMBEDDED PIPE -POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 (PVC SCH 40)
b. FOR RUN EXPOSED PIPE -ELECTRICAL METALLIC TUBING (EMT) / INTERMEDIATE METAL CONDUIT (IMC)
c. FOR DRYWALL -MICA TUBE, PVC FLEXIBLE HOSE OR PVC SCH 40
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT SHALL BE 3.5mm.
- ANY DISCREPANCY IN LOCATION AND RATING OF ELECTRICAL EQUIPMENT SHALL BE VERIFIED WITH THE OWNER AND CHANGES SHALL BE MADE ACCORDINGLY.
- ALL CONVENIENCE OUTLETS AND MOTOR LOADS SHALL BE PROPERLY GROUNDED TO THE DISTRIBUTION PANEL AND SECURELY BONDED TO THE GROUNDING ELECTRODE SYSTEM.

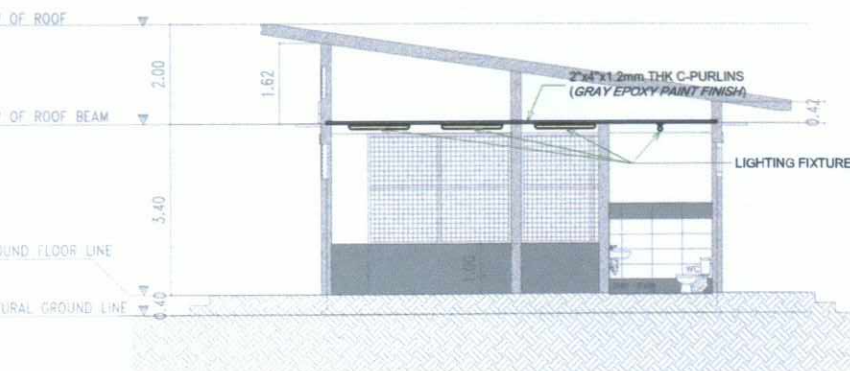
LEGENDS

	1-18W T5 LED TUBE IN A WEATHERPROOF HOUSING (DL)
	20W LED BULB WITH RECEPTACLE
	12W LED 4" ROUND SURFACE MOUNTED DOWNLIGHT (DL)
	WALL MOUNTED EMERGENCY LIGHT WITH OUTLET
	ONE-GANG WIDE SERIES 1-WAY SWITCH
	S3W-ab TWO-GANG WIDE SERIES 3-WAY SWITCH
	S3W-abc THREE-GANG WIDE SERIES 3-WAY SWITCH
	40W INDUSTRIAL TYPE WALL MOUNTED EXHAUST FAN WITH LOUVERS
	DUPLEX UNIVERSAL CONVENIENCE OUTLET WITH GROUND WITH WEATHERPROOF COVER
	PVC CONDUIT
	PANELBOARD



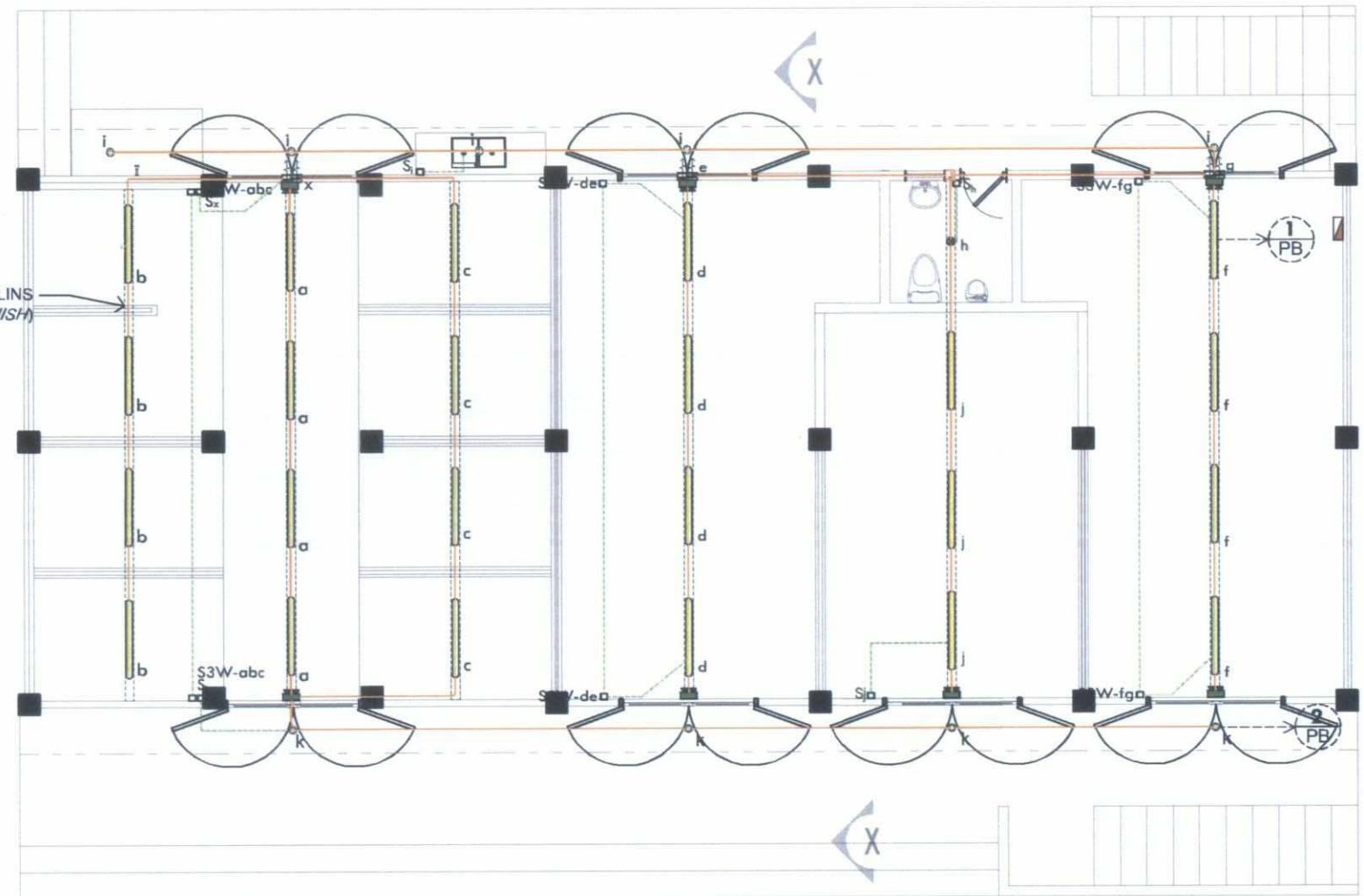
MOUNTING HEIGHT DETAILS

NTS



CROSS SECTION THRU X-X

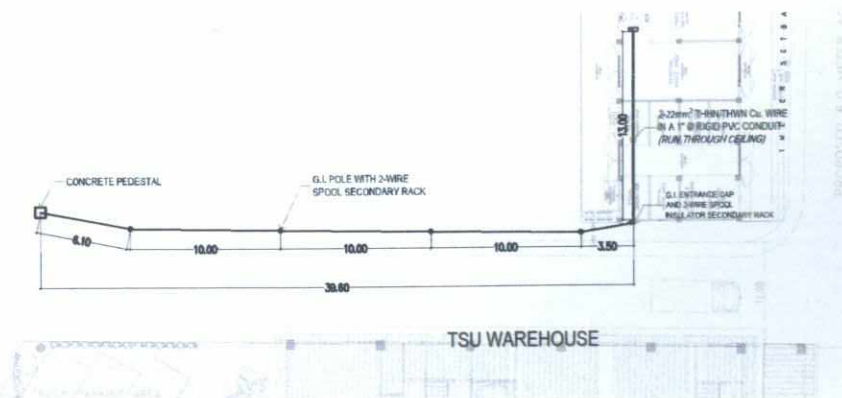
SCALE 1: 150 MTS



PROPOSED LIGHTING LAYOUT

LUCINDA CAMPUS

SCALE 1: 100 MTS



SERVICE ENTRANCE LAYOUT

NTS



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

PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, OFDM-PDU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-PDU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ROMMEL M. HERNANDEZ HEAD, DUHS	RECOMMENDING APPROVAL: ATTY. GHEROLD C. BANTUA ATTY. WILMARK J. BANGG, DBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN	SHEET NO.: E-01
PROJECT LOCATION: SAN ISIDRO & LUCINDA CAMPUS, TARLAC STATE UNIVERSITY							DATE:	PAGE NO.: 54/64

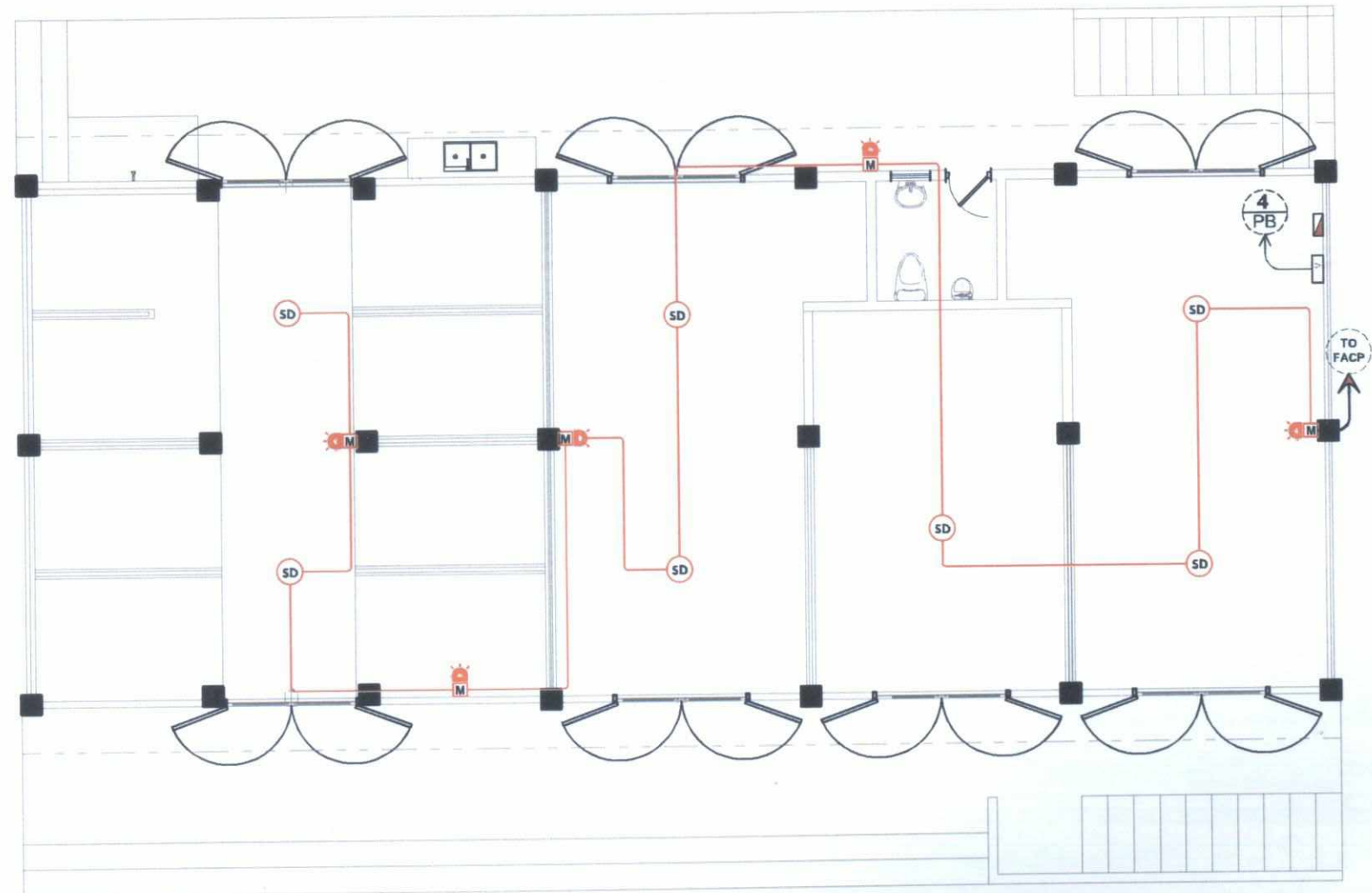
SHEET CONTENTS:	SHEET NO:
AS SHOWN	E-02
	PAGE NO:
DATE:	55/64

FDAS GENERAL NOTES

1. ALL FIRE DETECTION AND ALARM SYSTEM INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FIRE CODE, AND THE RULES AND REGULATIONS OF THE LOCAL FIRE BUREAU.
2. THE FIRE DETECTION AND ALARM SYSTEM SHALL BE DESIGNED AND CONSTRUCTED SO THAT THERE ARE APPROPRIATE PROVISIONS FOR THE EARLY WARNING OF FIRE, AND APPROPRIATE MEANS OF ESCAPE IN CASE OF FIRE FROM THE BUILDING TO A PLACE OF SAFETY OUTSIDE THE BUILDING CAPABLE OF BEING SAFELY AND EFFECTIVELY USED AT ALL MATERIAL TIMES.
3. MOUNTING HEIGHTS OF FIRE DETECTION DEVICES ARE THE FOLLOWING:
 - DETECTORS (CEILING MOUNTED), VARIES
 - SOUNDERS 2.20 METERS
 - MANUAL CALL POINT 1.20 METERS
 - CONTROL PANEL 1.50 METERS
4. ALL MATERIALS TO BE USED ARE NEW AND WILL BE INSTALLED IN APPLICATION FOR WHICH THEY ARE INTENDED.

LEGENDS

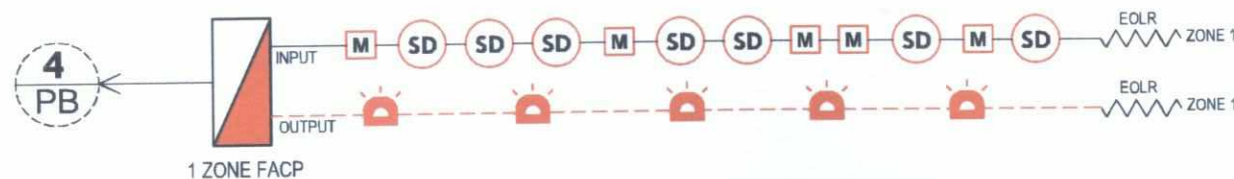
	SMOKE DETECTOR
	MANUAL CALL POINT
	ALARM BELL
	END OF THE LINE RESISTOR
	FIRE ALARM CONTROL PANEL



PROPOSED CONVENTIONAL FDAS LAYOUT

LUCINDA CAMPUS

SCALE 1 : 100 MTS



FDAS SINGLE LINE DIAGRAM

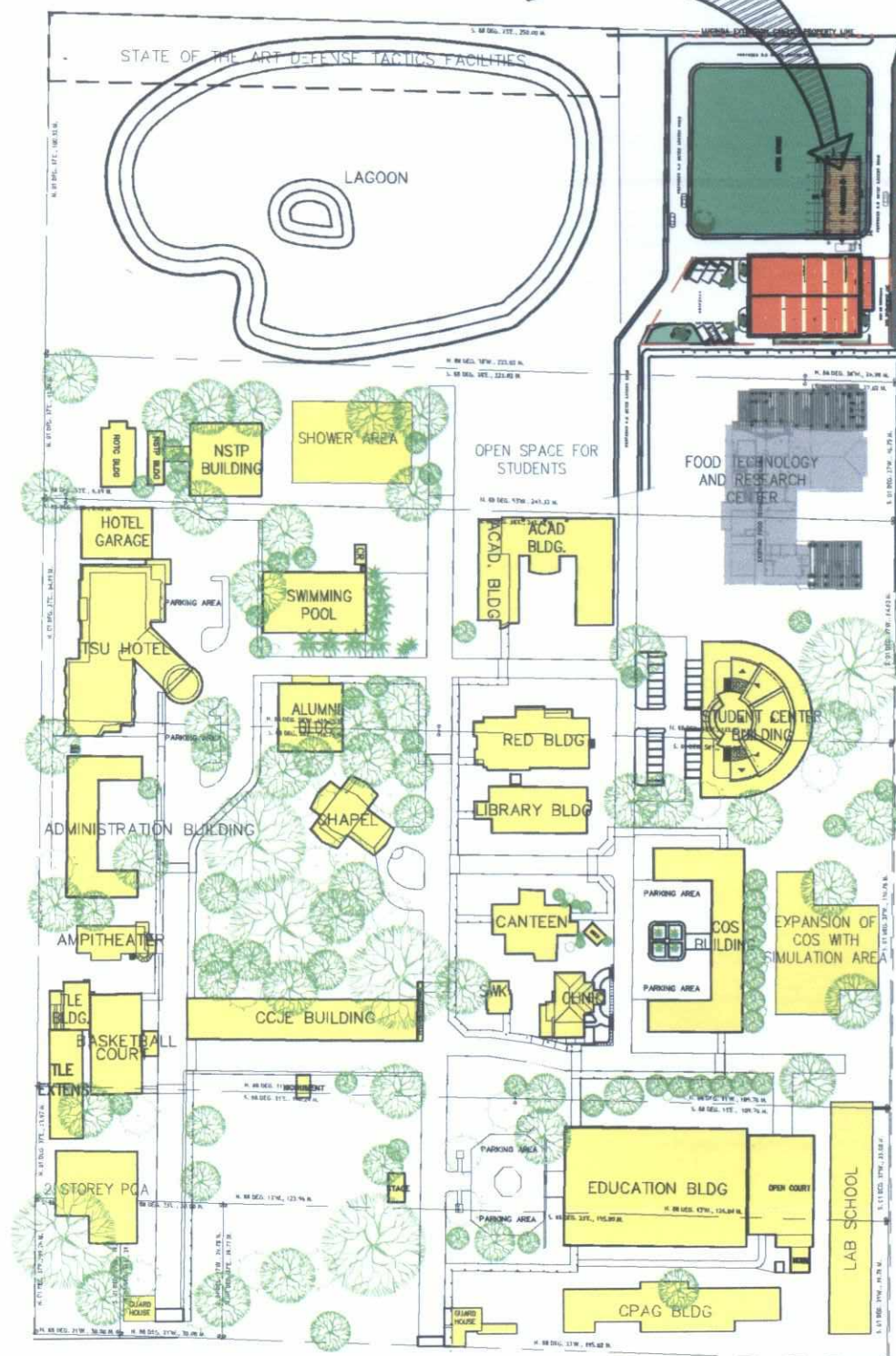


TARLAC STATE UNIVERSITY
Facilities Development and
Management Office
Romulo Boulevard, Tarlac City, Philippines 2300

PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)	PREPARED BY: ENGR. MARK JOMELLE O. NATIVIDAD ELECTRICAL ENGINEER, OFDM-POU	CHECKED BY: AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY: AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE: DR. ROMMEL M. HERNANDEZ HEAD, OHS	RECOMMENDING APPROVAL: ATTY. GERALD O. BENITEZ ATTY. WILMARK RAMOS, BBA VP FOR ADMINISTRATION	APPROVED: DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE:	SHEET NO: E-03 PAGE NO: 56/64
--	--	---	---	--	--	---	--------------------------------------	--



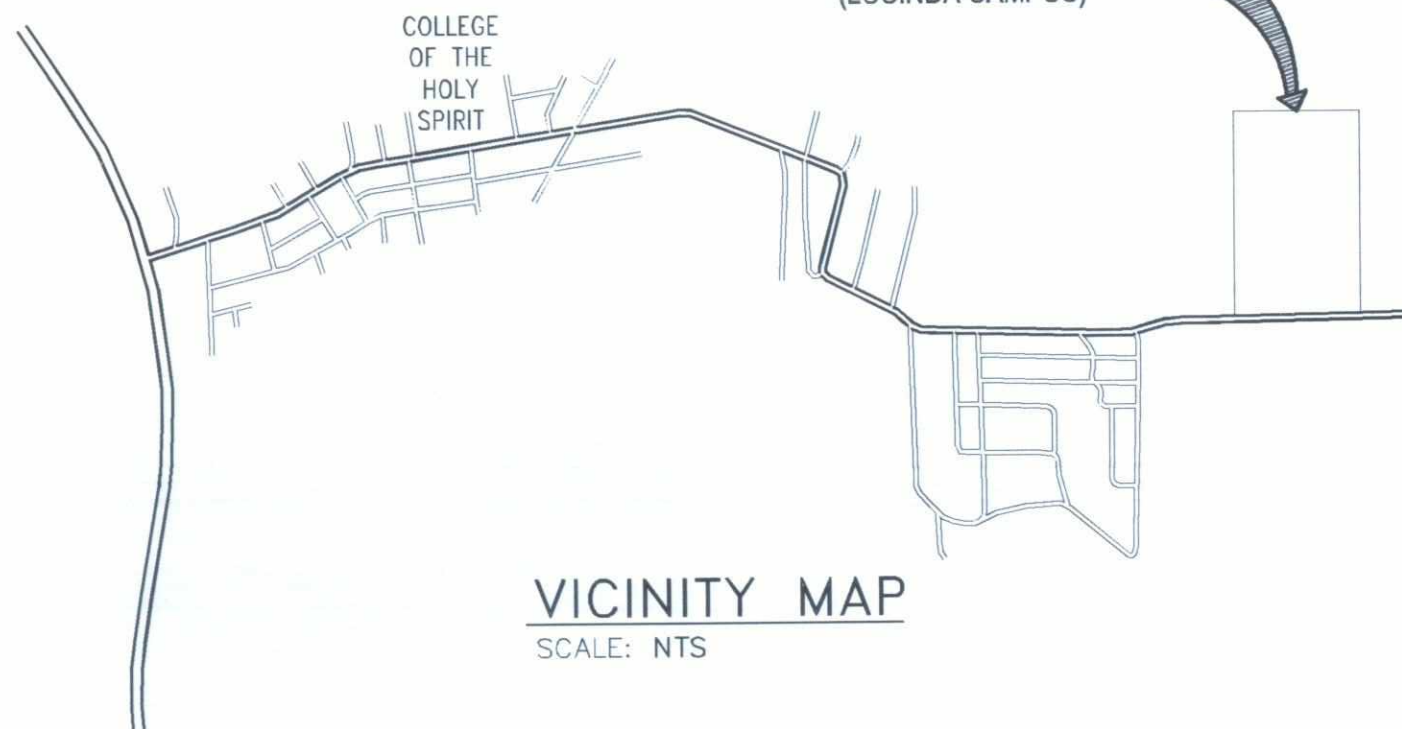
SITE



LOCATION MAP

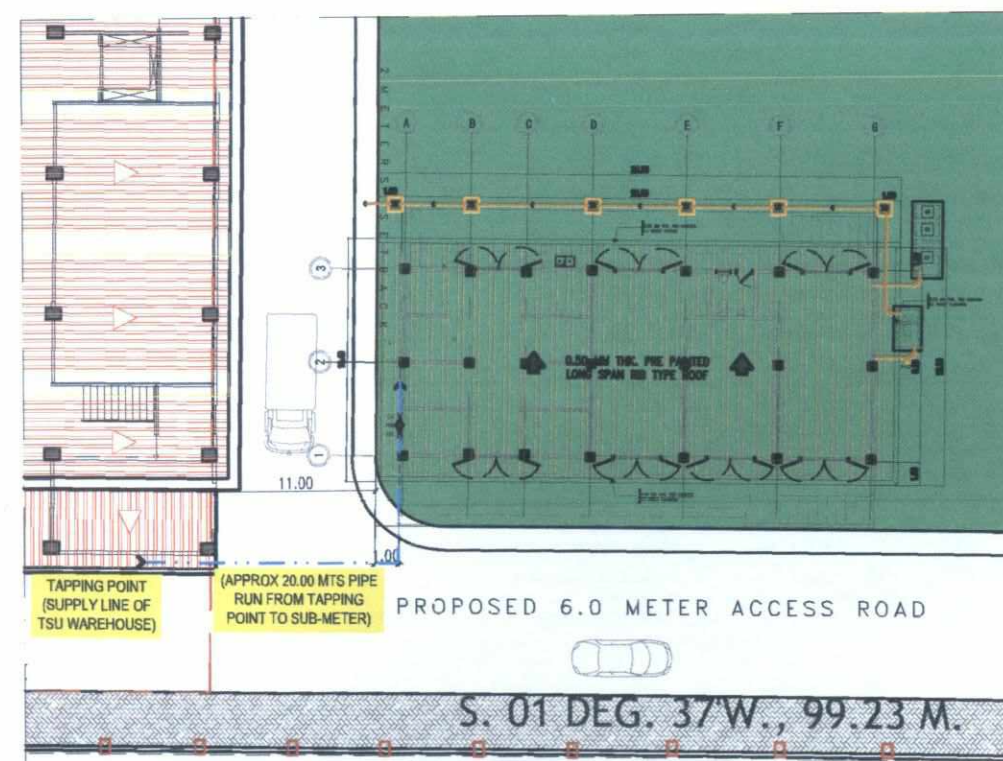
SCALE: 1: 2000

TARLAC STATE
UNIVERSITY
(LUCINDA CAMPUS)



VICINITY MAP

SCALE: NTS



SITE DEVELOPMENT PLAN

SCALE: 1: 250 METERS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. PAULO A. DOCTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-POU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OCHS

RECOMMENDING APPROVAL:

ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
P-01
PAGE NO:
57/64

LEGENDS

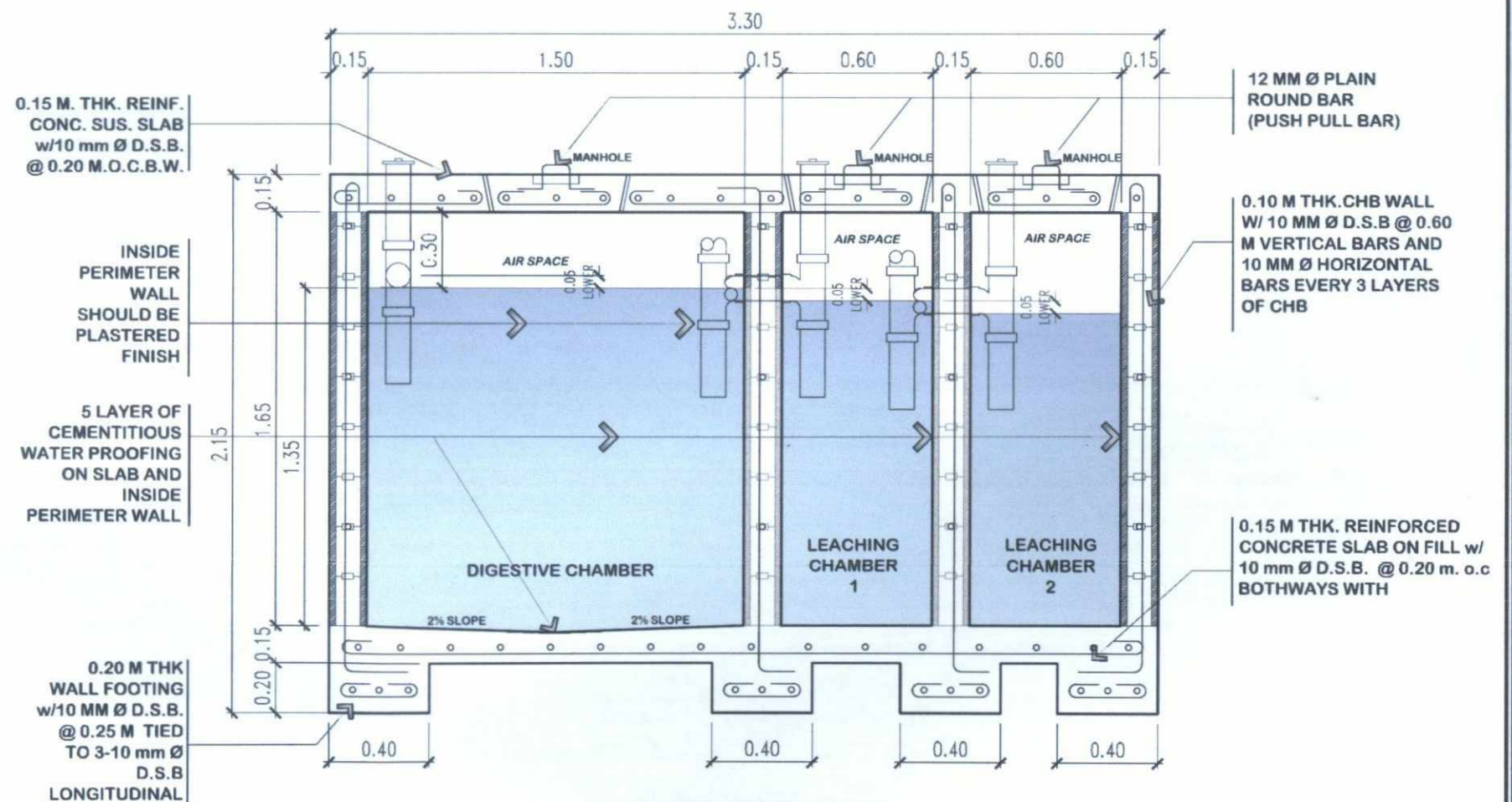
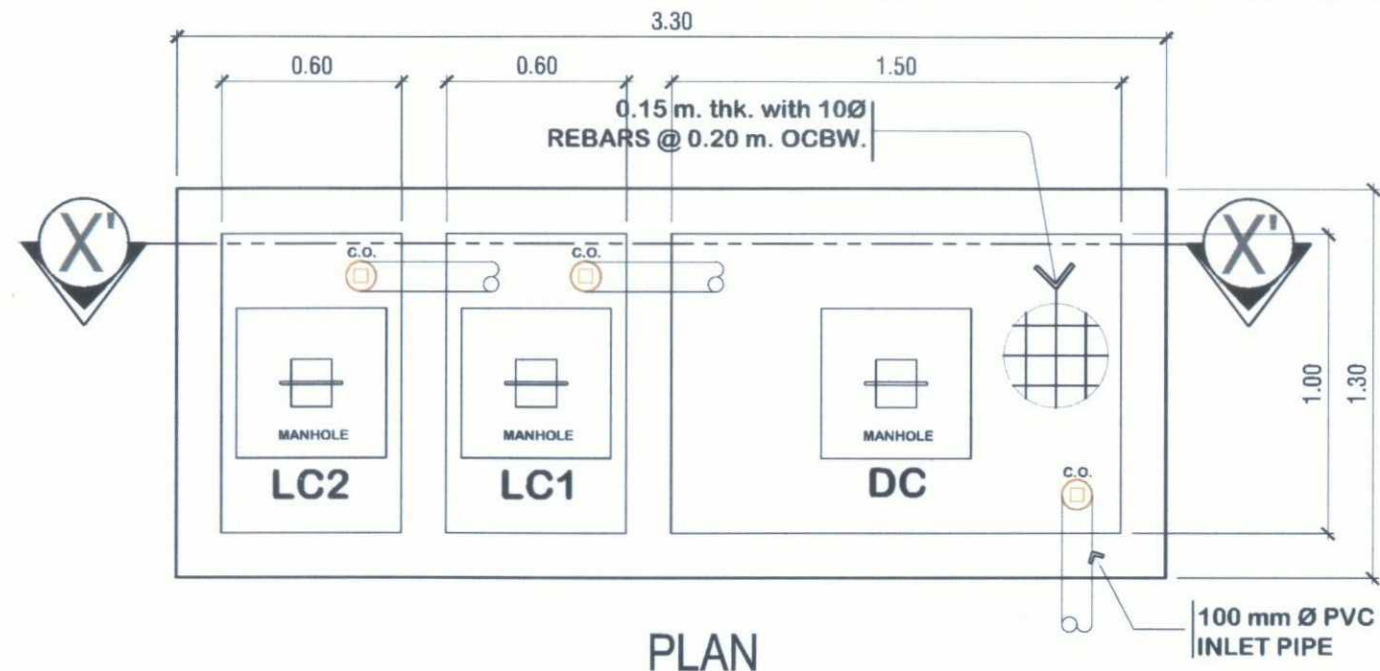
SP	SOIL PIPE	FD	FLOOR DRAIN
WP	WASTE PIPE	RD	ROOF DRAIN
VP	VENT PIPE	URI	URINAL
SS	SOIL STACK	WC	WATER CLOSET
VS	VENT STACK	LAV	LAVATORY
VTW	VENT THRU WALL	GV	GATE VALVE
SVTR	STACK VENT THRU ROOF	CV	CHECK VALVE
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK
4" Ø PVC S1000 SOIL/WASTE PIPES			
3" Ø PVC S1000 WASTE/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

GENERAL NOTES:

- GRADE OF HORIZONTAL PIPING
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AT A UNIFORM GRADE OF NOT LESS THAN (2%) TWO PERCENT.
- CHANGE OF DIRECTION
ALL CHANGES IN DIRECTION SHALL BE MADE BY THE APPROPRIATE USE OF 45° WYE, LONG SWEEP, QUARTER BEND, SIXTH, EIGHT, SIXTEENTH BEND WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, A SINGLE 1/8 BEND COMBINATION MAYBE USED ON WASTE LINE.
- PROHIBITED FITTINGS
NO DOUBLE TEE BRANCHES SHALL BE USED ON SOIL & WASTE LINES. DRILLING & TAPPING OF HOUSE DRAIN, WASTE PIPES OR USE OF SADDLE HUB AND BENDS ARE PROHIBITED.
- SLEEVES
PROVIDE PIPE SLEEVES AT WALL, COLUMN & SLAB ONE SIZE BIGGER THAN THE ACTUAL SIZE OF PIPE PASSING THRU WALLS OR UNDER SLAB TO PROTECT PIPES FROM BREAKAGE.
- PIPE CLEANOUTS
CLEANOUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
A) EVERY CHANGE IN HORIZONTAL DIRECTION EXCEEDING TWENTY - TWO AND ONE - HALF DEGREES.
B) ONE AND HALF METERS INSIDE THE PROPERTY LINE BEFORE THE HOUSE DRAINAGE CONNECTION.
C) EVERY FIFTEEN METERS (15.00) IN HORIZONTAL RUN OF PIPES.
D) AT THE END OF ANY HORIZONTAL PIPES.
- DEAD ENDS AVOIDED:
IN THE INSTALLATIONS OF PLUMBING SYSTEM, DEAD-END SHALL BE AVOIDED.
- ALL PLUMBING WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL BUILDING CODE, REQUIREMENTS OF THE PLUMBING INSPECTION OFFICE AND PERTINENT PROVISION OF THE NATIONAL BUILDING CODE.

THE CONTRACTOR SHALL BE VERIFY ALL THE EXISTING UTILITIES AT SITE AND COORDINATES THE WORKS WITH WATER LINE SERVICE CONNECTION POINT.

ALL PIPES SIZES ARE IN MILLIMETERS AND ALL DIMENSION ARE IN METERS UNLESS OTHERWISE SPECIFIED.

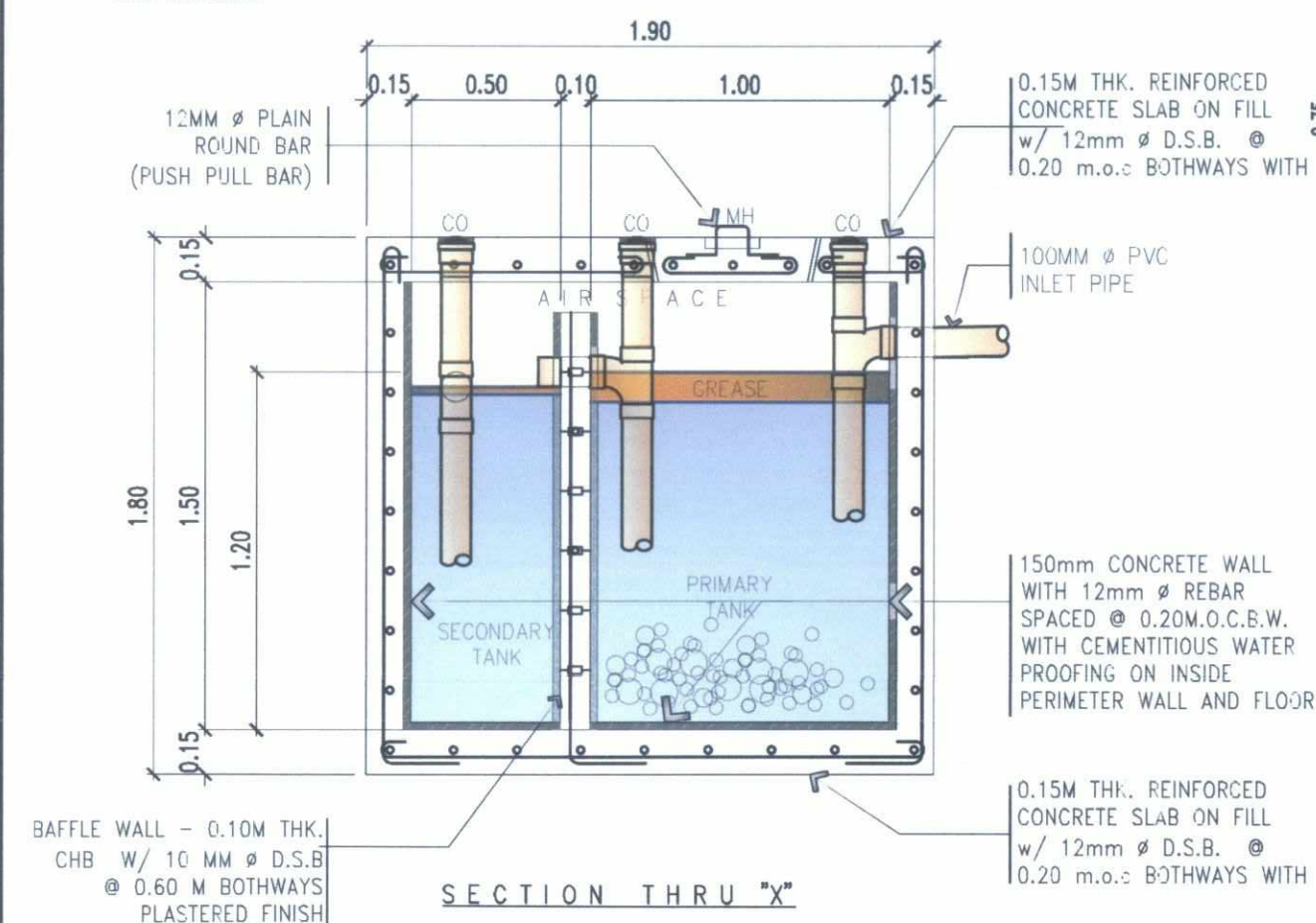
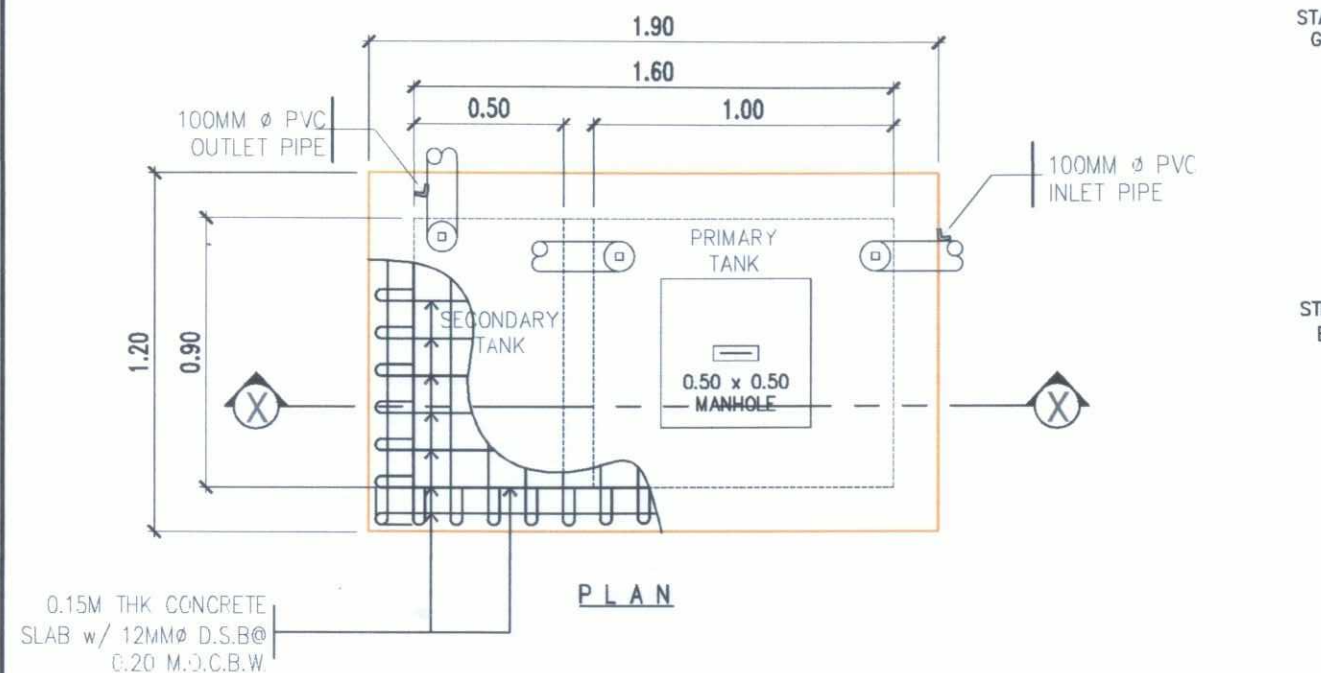


SECTION X'-X'

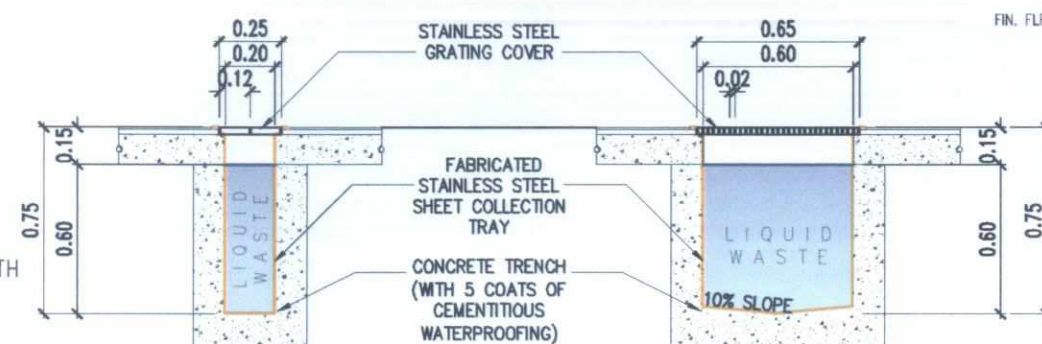
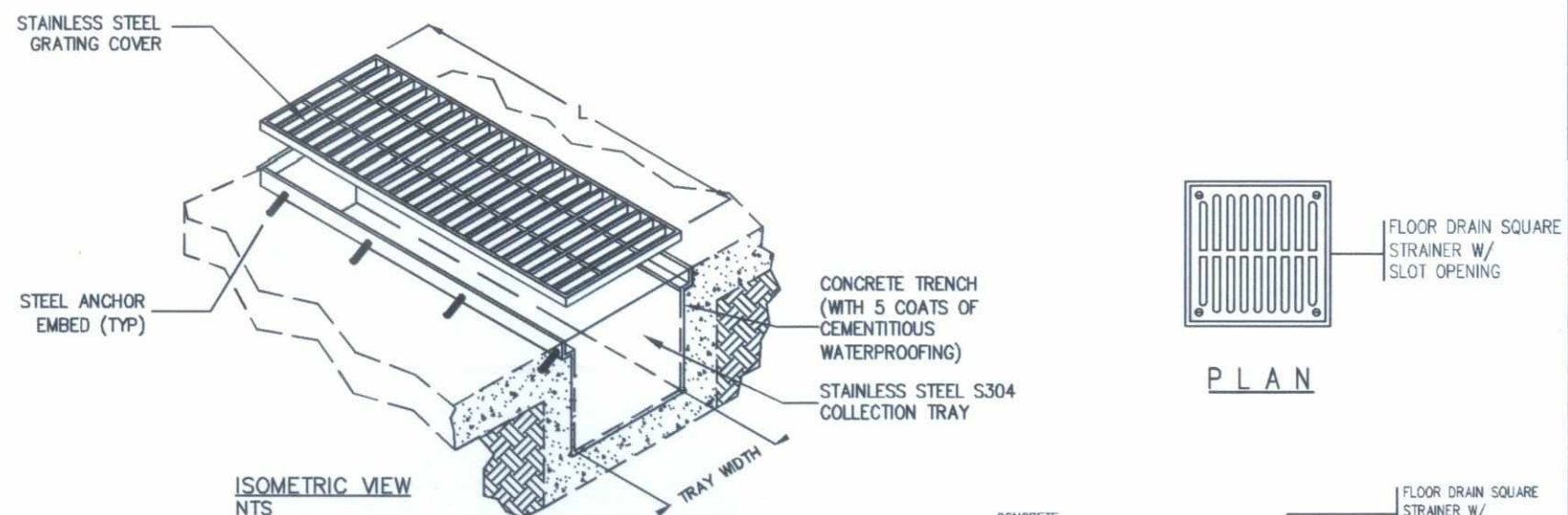
SEPTIC TANK DETAILS

SCALE: 1: 25

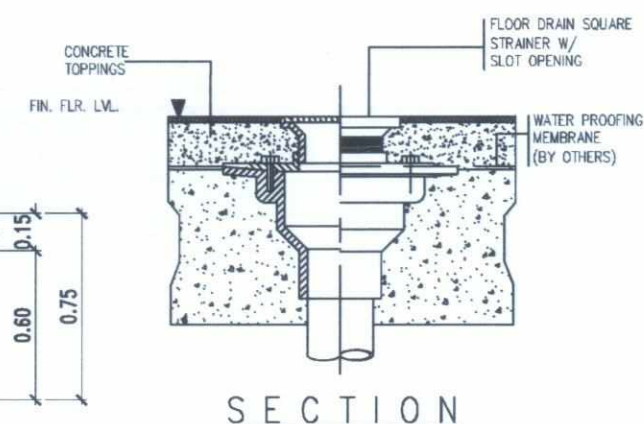
TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
	CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF) AT LUCINDA AND SAN ISIDRO CAMPUS	AR. PAUL A. DOCTOR, RMP ARCHITECT/MASTER PLUMBER, OFDM-POU	AR. CHERRY L. FABIANES HEAD, OFDM-POU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ROMMEL M. HERNANDEZ DIRECTOR, OHS	ATTY. GREGORIO C. BENTEZ ATTY. WILMARK J. AMOS, DBA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	P-02
	PROJECT LOCATION:	LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY						DATE: JUNE 2025	PAGE NO: 58/64



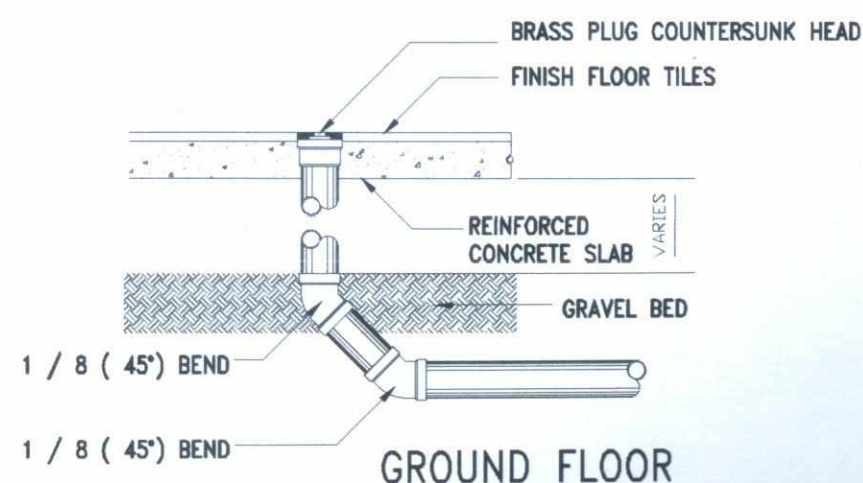
LIQUID WASTE INTERCEPTOR DETAILS
SCALE: 1:25



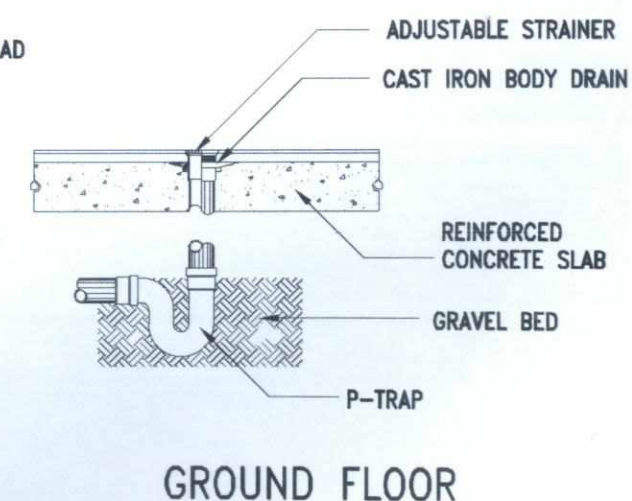
COLLECTION TRAY DETAIL
SCALE: 1:25



FLOOR DRAIN DETAIL
SCALE: NTS



FLOOR CLEAN-OUT DETAIL
SCALE: NTS



FLOOR DRAIN DETAIL
SCALE: NTS



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
AR. PAULO A. DOCTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-POU

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

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

REQUESTING OFFICE:
DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUPHS

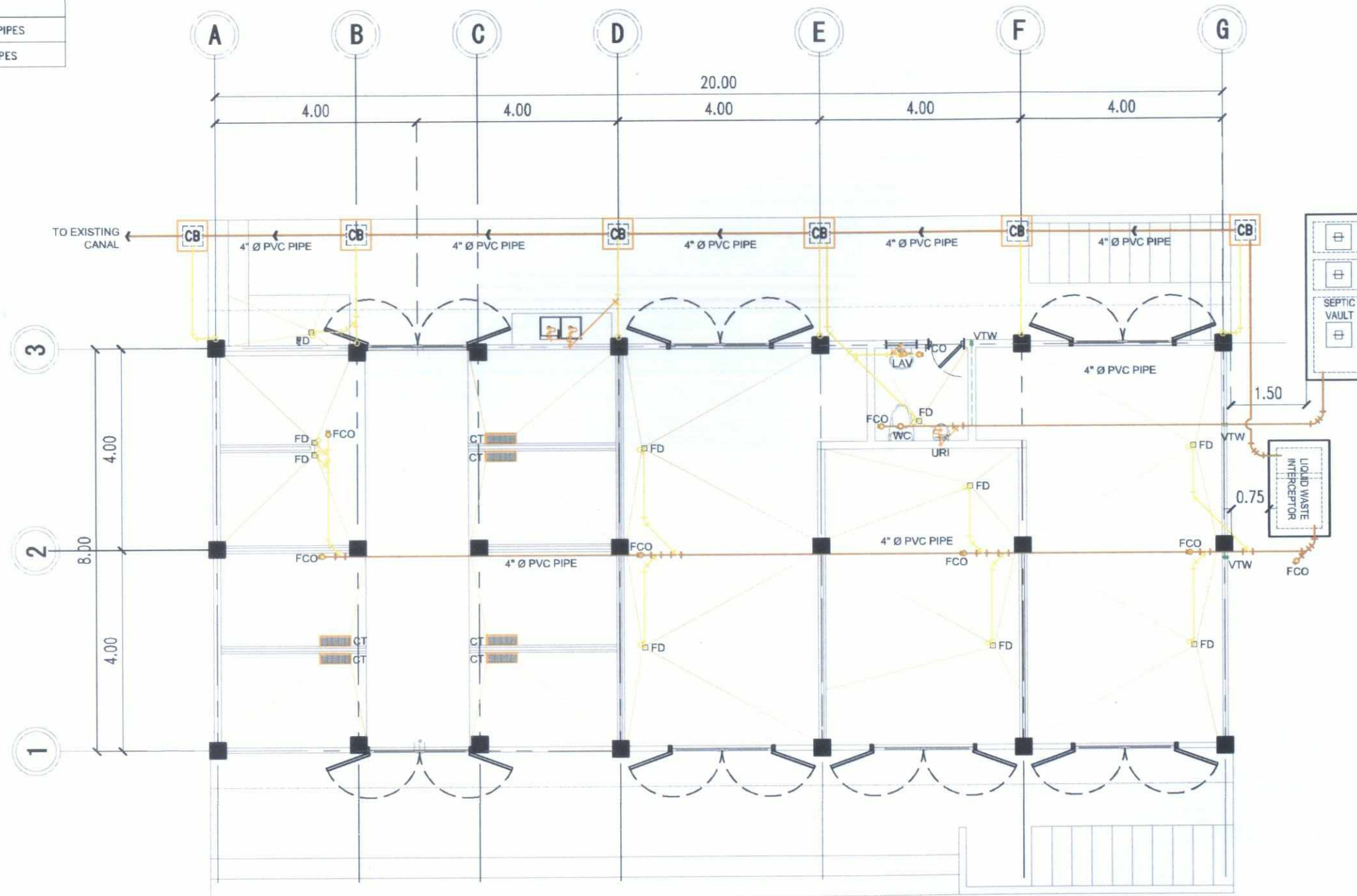
RECOMMENDING APPROVAL:
PITY. SHEROLD A. BENITEZ
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
P-03
PAGE NO:
59/64

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



GROUND FLOOR
SANITARY LAYOUT
SCALE: 1:100



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. PAULO A. DOCTOR, RMP
ARCHITECT/MASTER PLUMBER, OADM-POU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, DUHS

RECOMMENDING APPROVAL:

ATTY. GERALD O. BENITEZ
ATTY. WILMARK S. RAMOS, DBA
VP FOR ADMINISTRATION

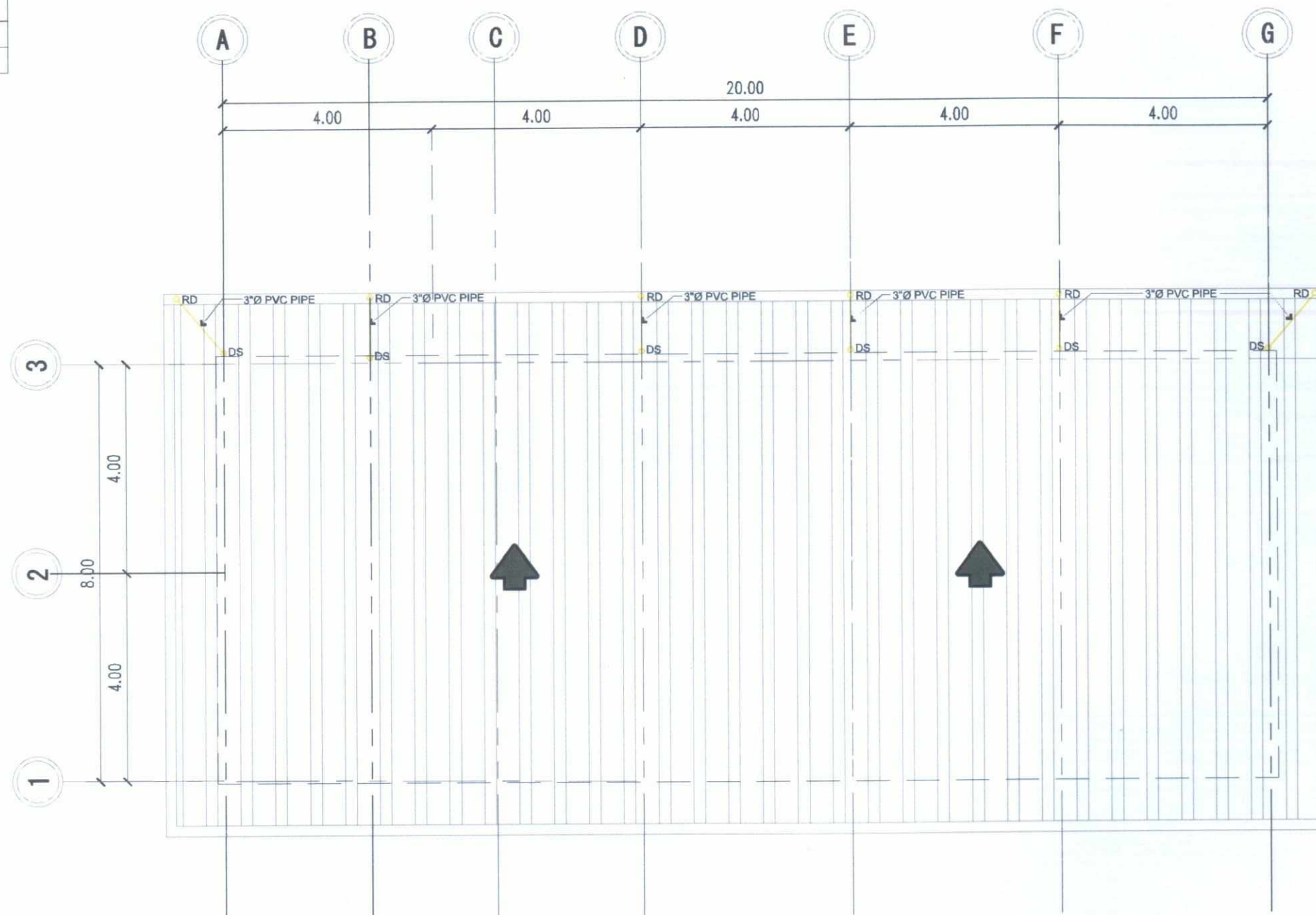
APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
P-04
PAGE NO:
60/64

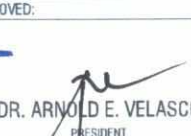
LEGEND	
	4" Ø PVC S1000 SOIL/WASTE PIPES
	3" Ø PVC S1000 WASTE/STORM DRAIN PIPES
	2" Ø PVC S1000 WASTE PIPES
	2" Ø PVC S1000 VENT PIPES

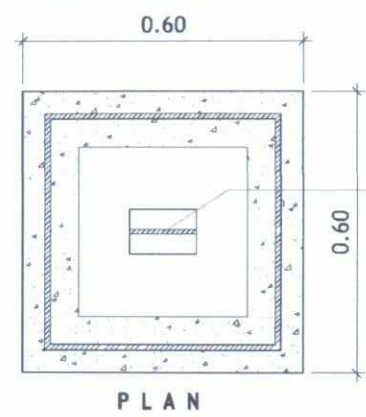


ROOF LEVEL
STORM DRAIN LAYOUT
SCALE: 1:100



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

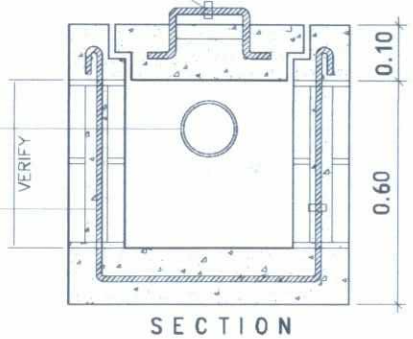
PROJECT TITLE: CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF) AT LUCINDA AND SAN ISIDRO CAMPUS	PREPARED BY:  AR. PAULO A. DOCTOR, RMP ARCHITECT/MASTER PLUMBER, OFDM-POU	CHECKED BY:  AR. CHERRY L. FABIANES HEAD, OFDM-POU	CERTIFIED BY:  AR. ARLEN M. GUIEB DIRECTOR, OFDM	REQUESTING OFFICE:  DR. ROMMEL M. HERNANDEZ DIRECTOR, OHS	RECOMMENDING APPROVAL:  ATTY. SHEROLD A. BENITEZ ATTY. WILMARK S. RIMOS, DBA VP FOR ADMINISTRATION	APPROVED:  DR. ARNOLD E. VELASCO PRESIDENT	SHEET CONTENTS: AS SHOWN DATE: JUNE 2025	SHEET NO: P-05 PAGE NO: 61/64
--	---	--	--	---	---	--	--	--



12 mm Ø PLAIN
HANDLE BAR

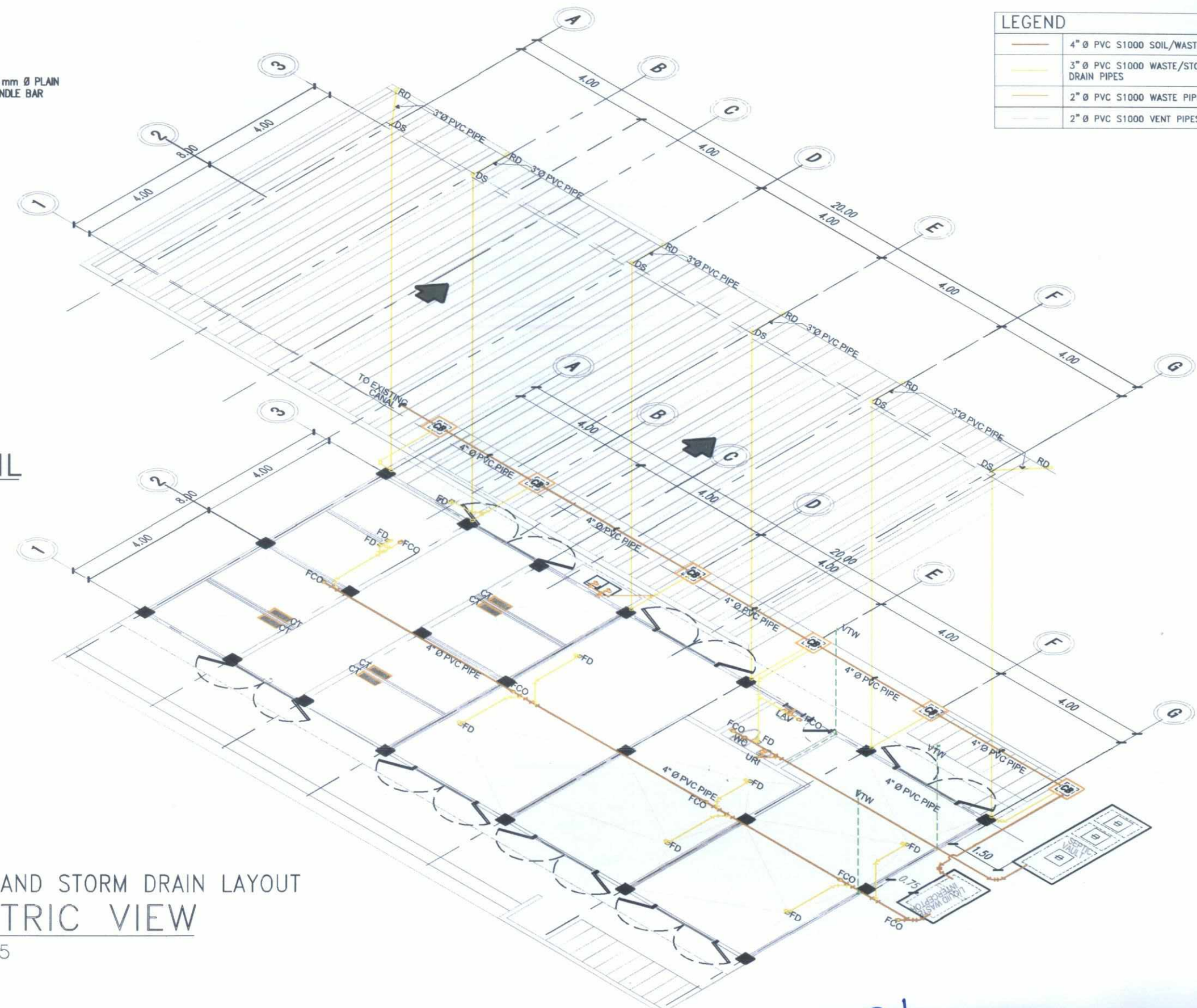
12 mm Ø PLAIN
HANDLE BAR

PVC PIPE
100mm thk. CHB
w/ 10 mm Ø
STIFFENER BARS



CATCH BASIN DETAIL SCALE: NTS

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

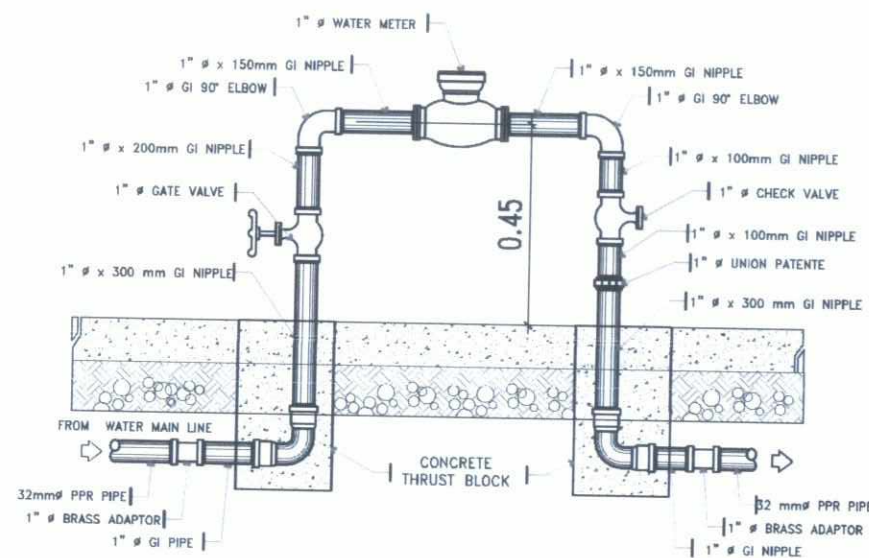


SANITARY AND STORM DRAIN LAYOUT ISOMETRIC VIEW SCALE: 1:75

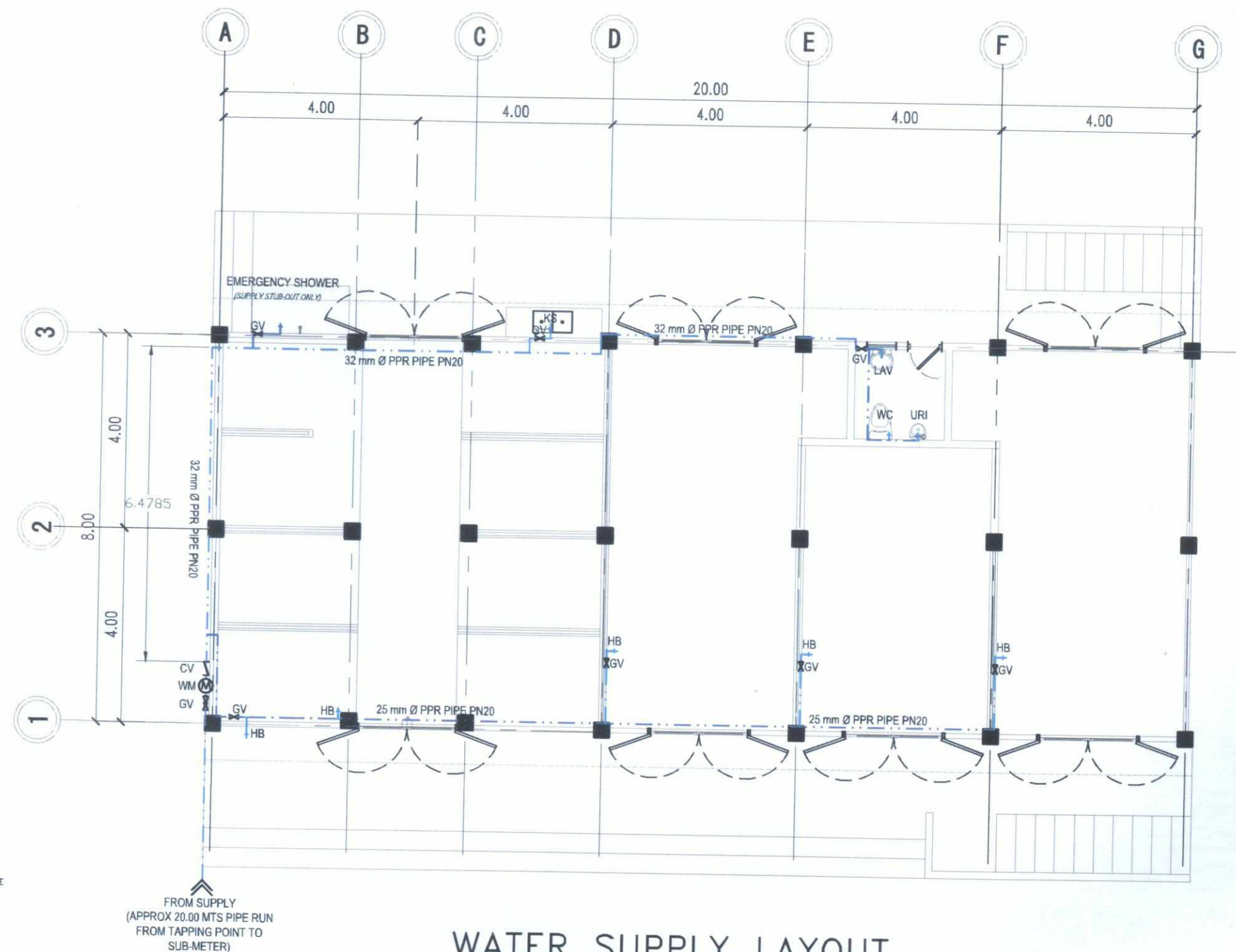
TARLAC STATE UNIVERSITY Facilities Development and Management Office Romulo Boulevard, Tarlac City, Philippines 2300	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	CERTIFIED BY:	REQUESTING OFFICE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO:
	CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF) AT LUCINDA AND SAN ISIDRO CAMPUS	AR. PAULO E. DOCTOR, RMP ARCHITECT/MASTER PLUMBER, OFDM-POU	AR. CHERRY L. FABIANES HEAD, OFDM-POU	AR. ARLEN M. GUIEB DIRECTOR, OFDM	DR. ROMMEL M. HERNANDEZ DIRECTOR, OHS	ATTY. GHEROLD C. BENTEZ ATTY. WILMAR L. RAMOS, DBA VP FOR ADMINISTRATION	DR. ARNOLD E. VELASCO PRESIDENT	AS SHOWN	P-06
	PROJECT LOCATION:								DATE: JUNE 2025
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY									

LEGEND	
	32MM Ø PPR PIPE PN20
	25MM Ø PPR PIPE PN20
	20MM Ø PPR PIPE PN20

- NOTE:
- ALL FIXTURE SUPPLY PIPES SHALL BE 20MM Ø PPR PIPE PN20 EXCEPT FOR EMERGENCY SHOWERS, WHICH SHALL BE 25MM Ø PPR PIPE PN20.
 - PROVIDE 300MM HIGH 20MM Ø PPR PIPE PN20 AIR CHAMBER WITH END CAP FOR EVERY LAVATORY, KITCHEN SINK, AND HOSE BIBBS.



BUILDING SUB-METER DETAIL
SCALE: NTS



WATER SUPPLY LAYOUT
SCALE: 1:100



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:

AR. PAULO A. DORTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-POU

CHECKED BY:

AR. CHERRY L. FABIANES
HEAD, OFDM-POU

CERTIFIED BY:

AR. ARLEN M. GUIEB
DIRECTOR, OFDM

REQUESTING OFFICE:

DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUIHS

RECOMMENDING APPROVAL:

ATTY. SHEROLD C. BENITEZ
ATTY. WILMARK J. RAMOS, DBA
VP FOR ADMINISTRATION

APPROVED:

DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:

AS SHOWN

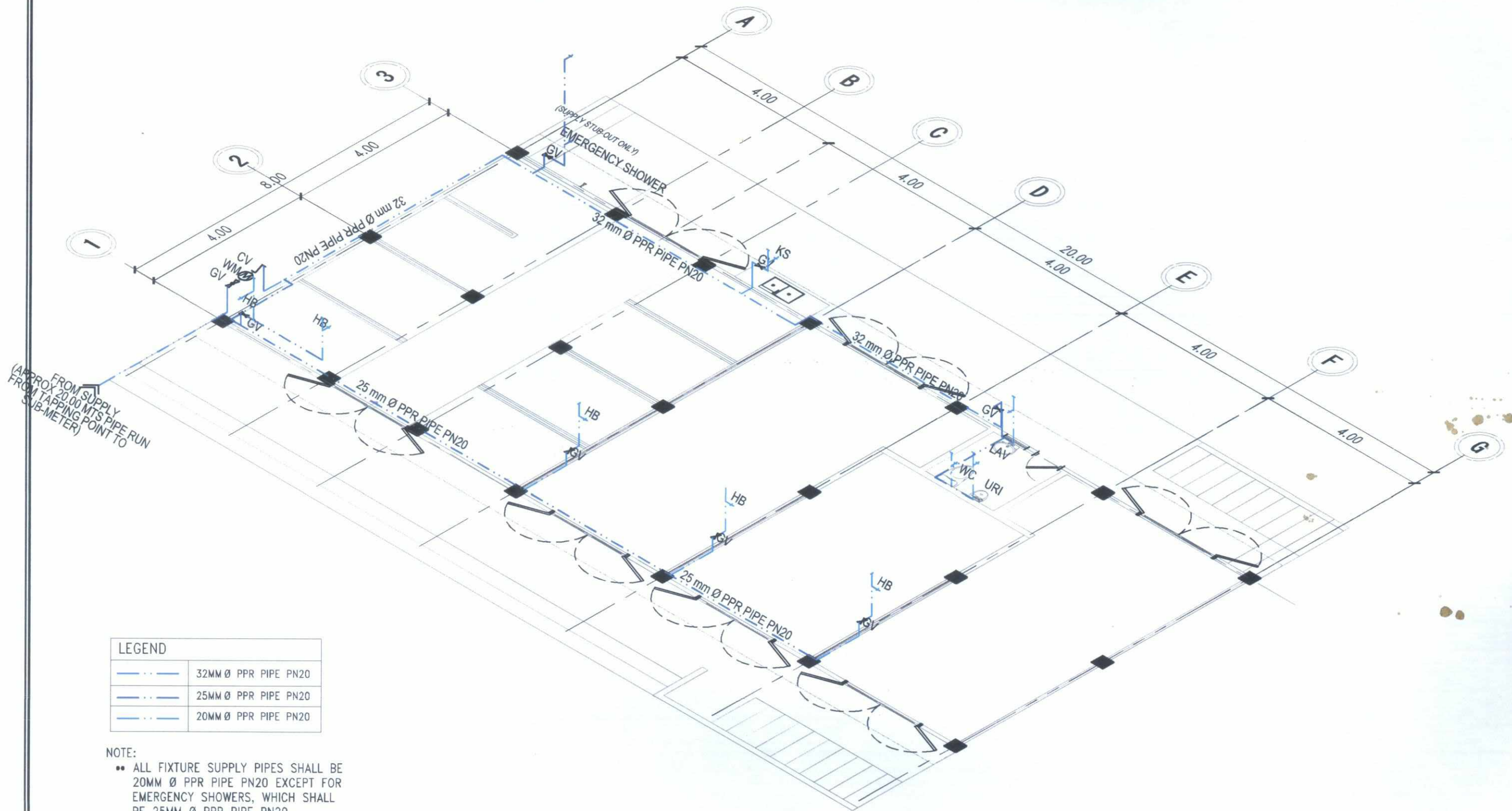
DATE: JUNE 2025

SHEET NO:

P-07

PAGE NO:

63/64



LEGEND

— — — — —	32MM Ø PPR PIPE PN20
— — — — —	25MM Ø PPR PIPE PN20
— — — — —	20MM Ø PPR PIPE PN20

NOTE:

- ALL FIXTURE SUPPLY PIPES SHALL BE 20MM Ø PPR PIPE PN20 EXCEPT FOR EMERGENCY SHOWERS, WHICH SHALL BE 25MM Ø PPR PIPE PN20.
- PROVIDE 300MM HIGH 20MM Ø PPR PIPE PN20 AIR CHAMBER WITH END CAP FOR EVERY LAVATORY, KITCHEN SINK, AND HOSE BIBBS.

WATER SUPPLY ISOMETRIC LAYOUT

SCALE:

1: 75



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

PROJECT TITLE:
CONSTRUCTION OF MATERIAL RECOVERY FACILITY (MRF)
AT LUCINDA AND SAN ISIDRO CAMPUS
PROJECT LOCATION:
LUCINDA EXTENSION CAMPUS, TARLAC STATE UNIVERSITY

PREPARED BY:
Paulo A. Doctor
AR. PAULO A. DOCTOR, RMP
ARCHITECT/MASTER PLUMBER, OFDM-PDU

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

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

REQUESTING OFFICE:
Rommel M. Hernandez
DR. ROMMEL M. HERNANDEZ
DIRECTOR, OUMS

RECOMMENDING APPROVAL:
Gerald C. Daniez
ATTY. GERALD C. DANIEZ
ATTY. WILMARK J. BANCAY, DBA
VP FOR ADMINISTRATION

APPROVED:
Arnold E. Velasco
DR. ARNOLD E. VELASCO
PRESIDENT

SHEET CONTENTS:
AS SHOWN
DATE: JUNE 2025

SHEET NO:
P-08
PAGE NO:
64/64