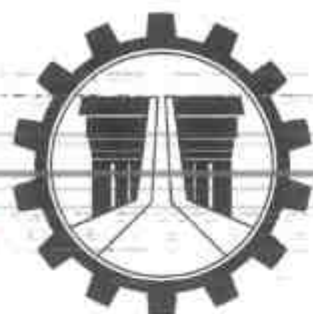




REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE VIII
SOUTHERN LEYTE 2nd DISTRICT ENGINEERING OFFICE
SOGOD, SOUTHERN LEYTE

C.Y. 2025 PROJECT
DETAILED ENGINEERING DESIGN PLAN FOR
**CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC
INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/
FACILITIES TO SUPPORT SOCIAL SERVICES -
CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING
BRGY. MERCEDES, SILAGO, SOUTHERN LEYTE**

BRGY. MERCEDES, SILAGO, SOUTHERN LEYTE
9.9463490°N , 125.2813050°E

SUBMITTED:


RAINIER LOU C. RUIZ
CHIEF, PLANNING & DESIGN SECTION

DATE:

MAR 31 2025

RECOMMENDED:


EVELYN D. YAP
ASSISTANT DISTRICT ENGINEER

DATE:

APR 04 2025

APPROVED:


EDUARDO V. SANTOS
DISTRICT ENGINEER

DATE:

APR 04 2025

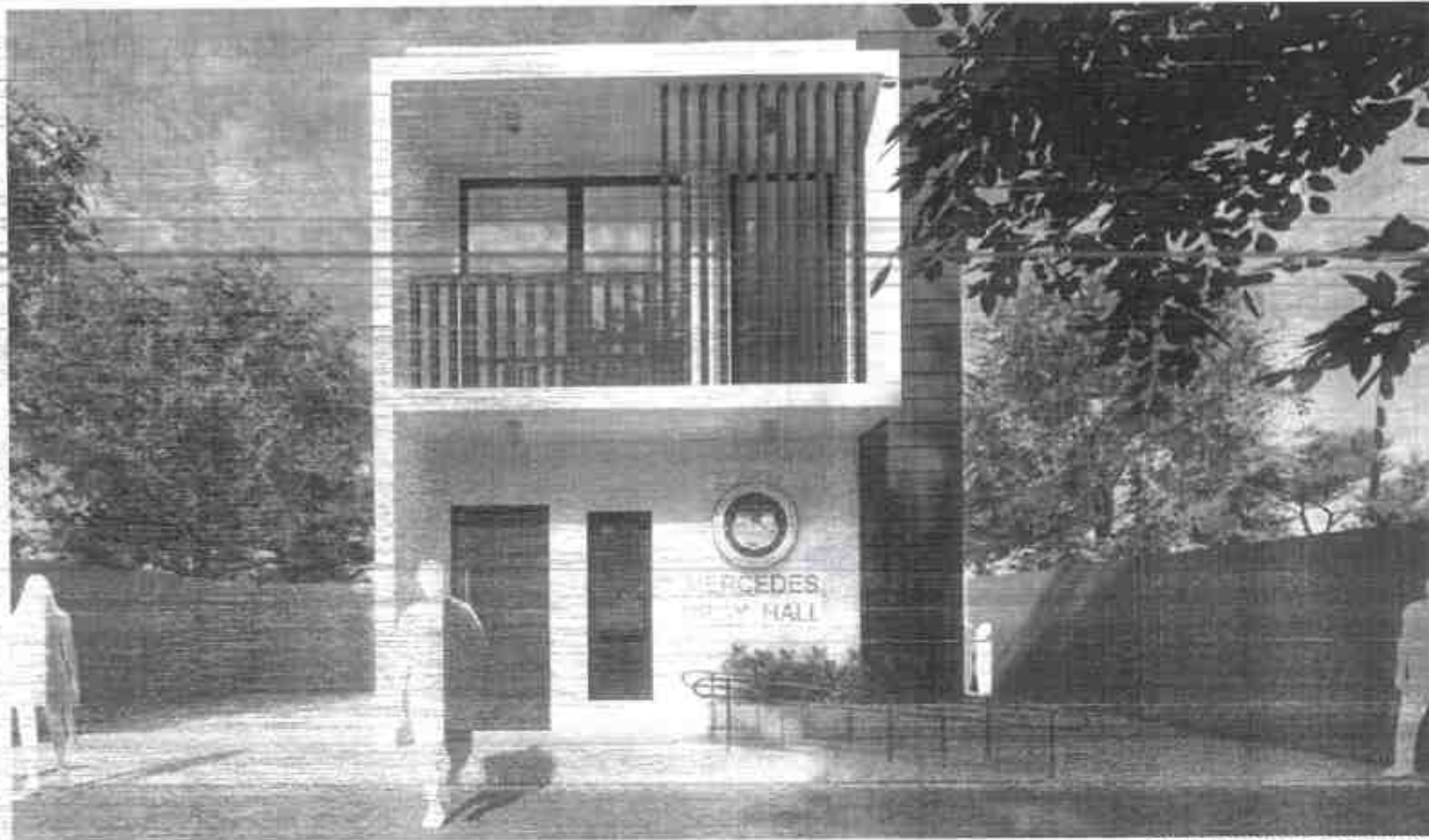


REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE VIII
SOUTHERN LEYTE 2nd DISTRICT ENGINEERING OFFICE
SOGOD, SOUTHERN LEYTE

C.Y. 2025 PROJECT
DETAILED ENGINEERING DESIGN PLAN FOR
**CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC
INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/
FACILITIES TO SUPPORT SOCIAL SERVICES -
CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING
BRGY. MERCEDES, SILAGO, SOUTHERN LEYTE**

BRGY. MERCEDES, SILAGO, SOUTHERN LEYTE
9.9463490°N , 125.2813050°E

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE VIII SOUTHERN LEYTE 2 nd DISTRICT ENGINEERING OFFICE SOGOD, SOUTHERN LEYTE	PROJECT NAME AND LOCATION	SHEET CONTENTS	DESIGNED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED	SET NO.	SHEET NO.
	CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/ FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING BRGY. MERCEDES, SILAGO, SOUTHERN LEYTE	GENERAL COVER PAGE	DESIGNED BY KEAVY B. ROSERA DATE MAR 26 2025 CHECKED BY CARYLL LEAN JADE G. OZON DATE MAR 26 2025	REVIEWED BY MIKE NIÑO M. VILLABENCIO DATE MAR 31 2025	SUBMITTED BY RAINIER LOU C. RUIZ DATE MAR 31 2025	RECOMMENDED BY EVELYN G. YAP DATE APR 04 2025	APPROVED BY EDUARDO V. SANTOS DATE APR 04 2025	1	35



PERSPECTIVE



PHASE 2



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BODDO, SOUTHERN LEYTE

PROJECT NAME AND LOCATION:

CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BODDO
BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTIPURPOSE BUILDING
THAT/LET TO SUPPORT SOCIAL SERVICES
CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING
BRGY. MERCEDES, BILAGO, SOUTHERN LEYTE
BRGY. MERCEDES, BILAGO, SOUTHERN LEYTE

SHEET CONTENTS

PERSPECTIVE
INDEX OF SHEETS

DRAFTED:

REAVY S. OLIVERA

DATE:

MAR 26 2025

PREPARED:

CARYLA LEAH JOSE OLIVON

DATE:

MAR 26 2025

REVIEWED:

MINE NIRO VILLASENCIO

DATE:

MAR 31 2025

SUBMITTED:

RAINIERA RUIZ

DATE:

MAR 31 2025

RECOMMENDED:

EDUARDO Y. SANTOS

DATE:

APR 04 2025

APPROVED:

EDUARDO Y. SANTOS

DATE:

APR 04 2025

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

OFFICE OF THE BUILDING OFFICIAL

DISTRICT / MUNICIPALITY

LAND USE & ZONING

BUILDING OFFICIAL

LINE & GRADE

BUILDING OFFICIAL

DATE

ARCHITECTURAL

BUILDING OFFICIAL

DATE

CIVIL/STRUCTURAL

BUILDING OFFICIAL

DATE

ELECTRICAL

BUILDING OFFICIAL

DATE

MECHANICAL

BUILDING OFFICIAL

DATE

SANITARY

BUILDING OFFICIAL

DATE

PLUMBING

BUILDING OFFICIAL

DATE

ELECTRONICS

BUILDING OFFICIAL

DATE

GEODETIC ENGINEER

BUILDING OFFICIAL

DATE

SET NO.

1

2

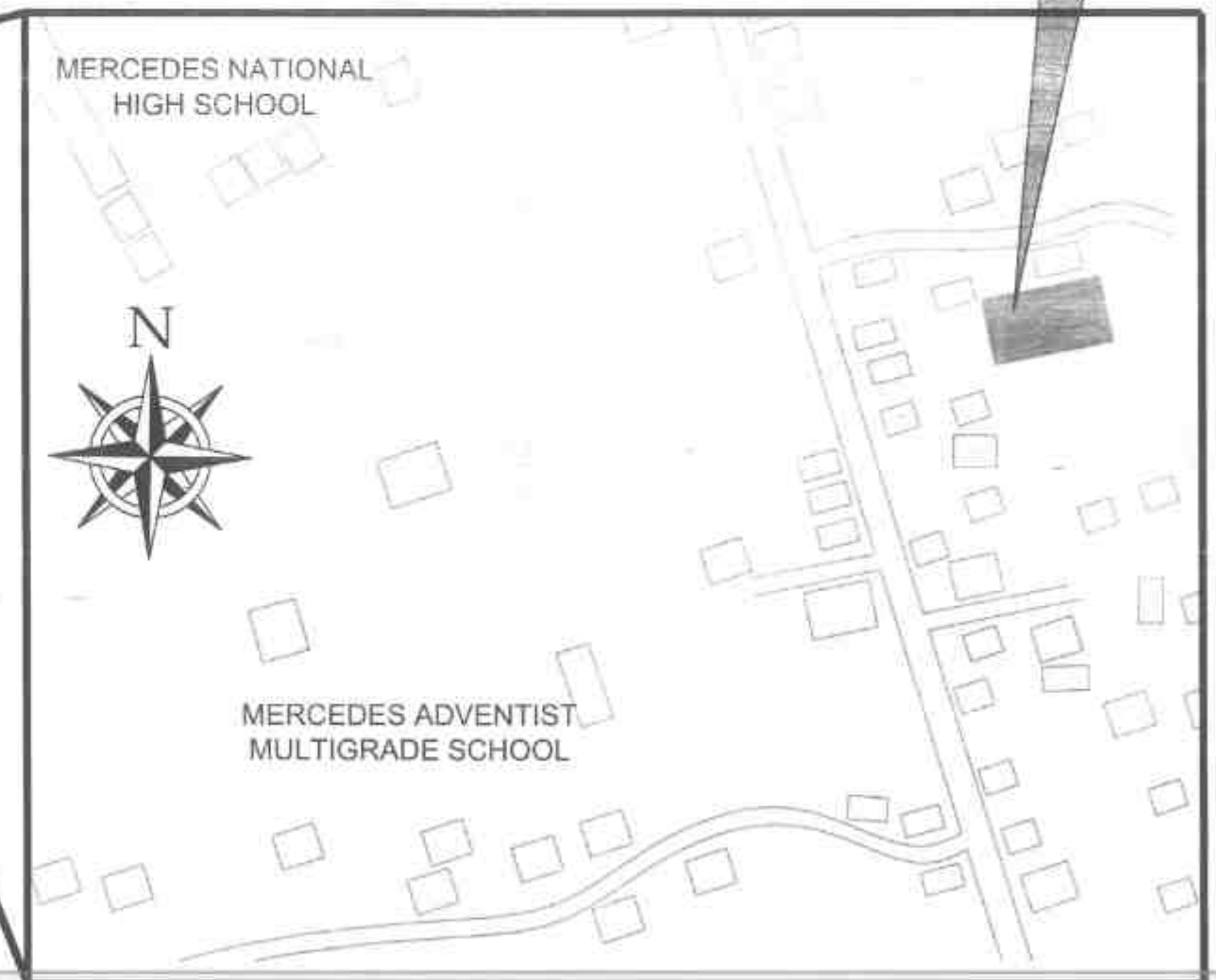
55

SHEET NO.



CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/ FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING BRGY. MERCEDES, SILAGO, SOUTHERN LEYTE

BRGY. MERCEDES, SILAGO, SOUTHERN LEYTE
9.9463490°N , 125.2813050°E



LOCATION MAP

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VIII SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE SILAGO, SOUTHERN LEYTE	PROJECT NAME AND LOCATION CONVERGENCE AND SPECIAL SUPPORT PROGRAM - BASIC INFRASTRUCTURE PROGRAM (BIP) - MULTI-PURPOSE BUILDING/ FACILITIES TO SUPPORT SOCIAL SERVICES - CONSTRUCTION (COMPLETION) OF MULTI-PURPOSE BUILDING BRGY. MERCEDES, SILAGO, SOUTHERN LEYTE	SHEET CONTENTS LOCATION MAP	DRAFTED: <i>KEN VILLALBA</i> DATE: <i>MAR 26 2025</i> REVIEWED: <i>CARVILLAN JADE GLAZON</i> DATE: <i>MAR 26 2025</i>	REVIEWED: <i>MIKE MIRD M. VILLASENCIO</i> DATE: <i>MAR 31 2025</i>	SUBMITTED: <i>RAINER M. RUIZ</i> DATE: <i>MAR 31 2025</i>	RECOMMENDED: <i>EVELYN D. LAP</i> DATE: <i>APR 04 2025</i>	APPROVED: <i>EDUARDO V. SANTOS</i> DATE: <i>APR 04 2025</i>	SHEET NO: 05
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OTHER GENERAL REQUIREMENTS

ITEM B.5 PROJECT BILLBOARD/SIGNBOARD

1. GENERAL REQUIREMENTS

THE CONTRACTOR SHALL INSTALL TWO (2) PROJECT INFORMATION SIGNS AT / OR NEAR THE BEGINNING AND THE END OF THE PROJECT OR UPON THE DISCRETION OF THE ENGINEER.

THE SIGNS ARE PRESCRIBED SEPARATELY BY THE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH) FOR GOVERNMENT INFRASTRUCTURE PROJECTS TO INFORM THE PUBLIC OF THE IMPLEMENTATION OF THE PROJECT AND TO ADVISE THE ROAD USERS OF THE ONGOING CONSTRUCTION.

THE NEW BILLBOARD DESIGN LAYOUT, DIMENSION AND LETTER SIZES ON WHITE BACKGROUND, SHALL BE DEPICTED ON STANDARD BILLBOARD MEASURING 1,220MM X 2,440 MM USING 12.50 MM THICK MARINE PLYWOOD OR TARPAULIN OF THE SAME SIZE POSTED ON 5 MM MARINE PLYWOOD. FOR EACH BUILDING PROJECT, THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE. FOR EACH ROAD/BRIDGE/FLOOD CONTROL PROJECT, TWO BILLBOARDS SHALL BE INSTALLED, ONE (1) AT THE BEGINNING AND ONE (1) AT THE END OF THE PROJECT.

FOR ROAD PROJECTS WITH A LENGTH OF 10KM OR MORE, ADDITIONAL BILLBOARD SHALL ALSO BE INSTALLED AT EVERY 5KM INTERVAL. NAME(S) AND/OR PICTURE(S) OF ANY PERSONAGES SHOULD NOT APPEAR ON THE BILLBOARD.

NOT OTHER BILLBOARDS SHALL BE ALLOWED 100 M BEFORE AND 100 M AFTER ALL DPWH PROJECTS AND IN-BETWEEN THE PROJECT LIMITS OR WITHIN THE ROAD RIGHT-OF-WAY. DPWH CONTRACTORS SHALL NOT BE ALLOWED TO PLACE NAMES OF POLITICIANS OR CARRY POLITICAL BILLBOARD ON THEIR EQUIPMENT.

THE CONTRACTOR SHALL ALSO INSTALL ONE (1) BILLBOARD AS PER COA CIRCULAR NO. 2013-004, INFORMATION AND PUBLICITY ON PROGRAMS/PROJECTS/ACTIVITIES OF GOVERNMENT AGENCIES.

UPON COMPLETION OF THE WORK, ALL SIGNS INSTALLED SHALL BE REMOVED FROM THE SITE.

ITEM B.7 OCCUPATIONAL SAFETY AND HEALTH

B.7.1 DESCRIPTION

THIS ITEM COVERS THE IMPLEMENTATION OF CONSTRUCTION SAFETY IN ALL STAGES OF PROJECT PROCUREMENT (DESIGN, ESTIMATE, CONSTRUCTION AND MAINTENANCE), REQUIREMENTS, PROVISIONS, AND INSTRUCTIONS FOR THE GUIDANCE OF THE ENGINEER

B.7.2 CONSTRUCTION SAFETY AND HEALTH PROGRAM(CSHP)

EVERY CONSTRUCTION PROJECT SHALL HAVE A SUITABLE AND APPROVED CONSTRUCTION SAFETY AND HEALTH PROGRAM (CSHP) AS REQUIRED IN ALL PROJECTS REGARDLESS OF AMOUNT, FUNDING SOURCE AND MODE OF IMPLEMENTATION WHICH SHALL COMPLY WITH THE MINIMUM SAFETY AND HEALTH REQUIREMENTS AS SPECIFIED IN THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS.

THE REQUIRE CSHP SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

1. COMPOSITION OF THE SAFETY AND HEALTH PERSONNEL RESPONSIBLE FOR THE PROPER IMPLEMENTATION OF CSHP.
2. SPECIFIC SAFETY POLITIES WHICH SHALL BE UNDERTAKEN IN THE CONSTRUCTION SITE, INCLUDING FREQUENCY OF AND PERSONS RESPONSIBLE FOR CONDUCTING TOOLBOX AND GANG MEETINGS.
3. PENALTIES AND SANCTIONS FOR VIOLATION OF THE CSHP.
4. FREQUENCY, CONTENT AND PERSONS RESPONSIBLE FOR ORIENTING, INSTRUCTING AND TRAINING ALL WORKERS AT THE SITE WITH REGARD TO THE CSHP WHICH THEY OPERATE.
5. THE MANNER OF DISPOSING WASTE ARISING FROM THE CONSTRUCTION.

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2 ND DISTRICT ENGINEERING OFFICE 3000D, SOUTHERN LEYTE	PROJECT NAME AND LOCATION	SHEET CONTENTS	DRAFTED KERRY D. SERRA DATE MAR 26 2025 PREPARED CARYLL L. MADRADO DATE MAR 26 2025	REVIEWED MINE NINO M. VILLASENCIO DATE MAR 31 2025	SUBMITTED RAINER D. RUZ DATE MAR 31 2025	RECOMMENDED EYMBY-4 DATE APR 04 2025	APPROVED EDUARDO V. SANTOS DATE APR 04 2025	SET NO. 1	SHEET NO. 04
	CONSTRUCTION OF 2.0 KM ROAD FROM BANGAL TO BANGAL BANGAL TO BANGAL ROAD, BANGAL CONSTRUCTION OF 2.0 KM ROAD FROM BANGAL TO BANGAL BANGAL TO BANGAL ROAD, BANGAL	OTHER GENERAL REQUIREMENTS							

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT			
Part B	OTHER GENERAL REQUIREMENTS - Blue Book Vol. III				Prepainted Metal Sheets	
B.3(1)	Permits and Clearances	1.00	L.s	1014(1)a2	Pre-painted Metal Sheets, above 0.427 mm, Corrugated Type, Long Span	51.20 Sq.m
B.5 (1)	Project Billboard / Signboard	4.00	Each		Ceramic/Granite Tiles	
B.7 (1)	Occupational Safety and Health	1.00	L.s	1018 (2)	Unglazed Tiles	9.00 Sq.m
B.9 (1)	Mobilization / Demobilization	1.00	L.s	1018 (5)	Glazed Tiles	56.00 Sq.m
					Cement Plaster Finish	
PART D	REINFORCED CONCRETE - Blue Book Vol. III, Part III, Division I - General			1027 (1)	Cement Plaster Finish	35.00 Sq.m
900 (1)c	Structural Concrete Class A 28 days, (3000 psi)	11.00	Cu.m.		Painting, Varnishing and Other Related Works	
902 (1)a1	Reinforcing Steel (Deformed), Grade 40	2850.00	Kg.	1032 (1)a	Painting Works (Masonry/Concrete)	242.00 Sq.m
903 (2)	Formworks and Falseworks	85.30	Sq.m	1032 (1)b	Painting Works Wood	10.10 Sq.m
				1032 (1)c	Painting Works Steel	61.00 Sq.m
PART E	FINISHING & OTHER CIVIL WORKS - Blue Book Vol. III, Part III, Division II - Buildings				Masonry Works	
	Storm Drainage and Sewerage System			1046 (2)a1	CHB Non Load Bearing (including Reinforcing Steel) 100 mm	44.00 Sq.m
1001 (2)	Concrete Gutter	5.50	M	1046 (2)a2	CHB Non Load Bearing (including Reinforcing Steel) 150 mm	65.00 Sq.m
1001 (8)	Sewer Line Works	1.00	L.s		Metal Structure	
1001 (9)	Storm Drainage and Downspout	1.00	L.s	1047 (8)a	Structural Steel, Trusses	538.00 Kgs.
	Plumbing			1047 (8)b	Structural Steel, Purlins	344.20 Kgs.
1002 (24)	Cold Water Lines	1.00	L.s	1047 (5)b	Metal Structure Accessories, Sagrods	19.00 Kgs.
1002 (4)	Plumbing Fixtures	1.00	L.s	1047 (4)a	Metal Structure Accessories, Bolts and Rods	24.00 Each
	Carpentry and Joinery Works			1047 (5)d	Metal Structure Accessories, Steel Plates	51.00 Kgs.
1003 (1)a1	Ceiling 4.5 mm Metal Frame Fiber Cement Board	52.00	Sq.m		PART F	ELECTRICAL - Blue Book Vol. III, Part III, Division II - Buildings
	Hardware			1100 (10)	Conduits, Boxes & Fittings (Conduit Works/Conduit, Rough-in)	1.00 L.s.
1004 (2)	Finishing Hardware	1.00	L.s	1101 (33)	Wires and Wiring Devices	1.00 L.s.
	Aluminum Glass Window			1102 (1)	Panelboard with Main & Branch Breakers	1.00 L.s.
1008 (1)c	Aluminum Glass Window (Awning Type)	2.00	Sq.m	1103 (1)	Lighting Fixtures	1.00 L.s.
	Wooden Doors and Windows					
1010 (1)	Frames (Jambs, Sills, Head, Transoms and Mullions)	3.00	Sets			
1010 (2)b	Doors, Wood Panel	5.20	Sq.m			
	Corrugated Roofing					
1013 (2)b	Fabricated Metal Roofing Accessory gauge 26 (0.551mm), Flashings	29.00	Ln.m			

	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII	PROJECT NAME AND LOCATION: CONGRESSIONAL AND SPECIAL AIRPORT PROGRAM - 1.5 KM INFRASTRUCTURE PROGRAM (M1, M2) - PHILIPPINE AIRLINE TOL ROAD TO IMPROVE LOCAL SERVICES CONSTRUCTION COMPLETION OF ALL PHASES (SALIDA BRAY, RECENTS, PUNAS, SOUTHERN LYTE AND RECENTS, SANG, SOUTHERN LYTE	SHEET CONTENTS: SUMMARY OF QUANTITIES	DRAWN BY: HEAVY'S S. SINDERA DATE: MAR 26 2025 CHECKED BY: CARILL L. LAR, JESSE G. OZON DATE: MAR 26 2025	REVIEWED BY: MIKE NIÑO N. VILLANECIO DATE: MAR 31 2025	RECOMMENDED BY: RAINEE LOUIS RUIZ DATE: MAR 31 2025	APPROVED BY: EVELYN D. LAP DATE: APR 04 2025	APPROVED BY: EDUARDO V. SAN VIGOR DATE: APR 04 2025	SET NO.: 1	SHEET NO.: 05 35
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TECHNICAL DESCRIPTIONS		
LINES	BEARINGS	DISTANCES
LOT 2242, A=3,960 Sq.m.		
1 2	S 18°47' E	90.99 m.
2 3	S 72°22' W	43.16 m.
3 4	N 16°54' W	92.19 m.
4 1	N 73°57' E	43.38 m.
TIE LINES from BLM No.3, CAD 682-D Silago Cadastre to corner "1"		
LOTS	BEARINGS	DISTANCES
2242	N 31°11' E	4,981.70 m.



 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (R.C. 2004-10) SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE BOHOL, SOUTHERN LEYTE	PROJECT NAME AND LOCATION TOPOGRAPHIC AND SPECIAL SURVEY PROGRAM - BASIC SURVEYING THE PROPOSED LOT - 100% PLANNED FACILITIES TO SUPPORT RURAL SERVICES COMPREHENSIVE DEVELOPMENT OF RURAL PLANNING AND RURAL SERVICES, SILAGO, SOUTHERN LEYTE WITH NEIGHBORLY LAND ACQUISITION	SHEET CONTENTS SITE DEVELOPMENT PLAN	DRAWN BY KRAVIA L. JORDA DATE MAR 26 2025	REVIEWED BY MICHELINO M. VILLASENCO DATE MAR 31 2025	SUBMITTED BY RAINIER P. C. RUIZ DATE MAR 31 2025	RECOMMENDED BY EVELYN S. RUIZ DATE APR 04 2025	APPROVED BY EDUARDO V. SAN JOSE DATE APR 04 2025	SET NO. A	SHEET NO. 08
			DATE MAR 26 2025	DATE MAR 31 2025	DATE MAR 31 2025	DATE APR 04 2025	DATE APR 04 2025	1	08

SCHEDULE OF FINISHES

FLOOR FINISHES

MARK	SPECIFICATION
[FL-1]	600x600mm CERAMIC TILES (GLAZED)
[FL-2]	600x600mm CERAMIC TILES (UNGLAZED)
[FL-3]	CONCRETE EPOXY COATING
[FL-4]	300x300mm CERAMIC TILES (UNGLAZED)

WALL FINISHES

MARK	SPECIFICATION
[W-1]	PLASTERED CHS WALL W/ SEMI-GLOSS LATEX PAINT FINISH (VERIFY COLOR)
[W-2]	300MMx300MM VITRIFIED GLAZED WALL TILES (VERIFY COLOR)

PARTITION

MARK	SPECIFICATION
[P-1]	100mm THK CHS WALL FINISH

CEILING FINISHES

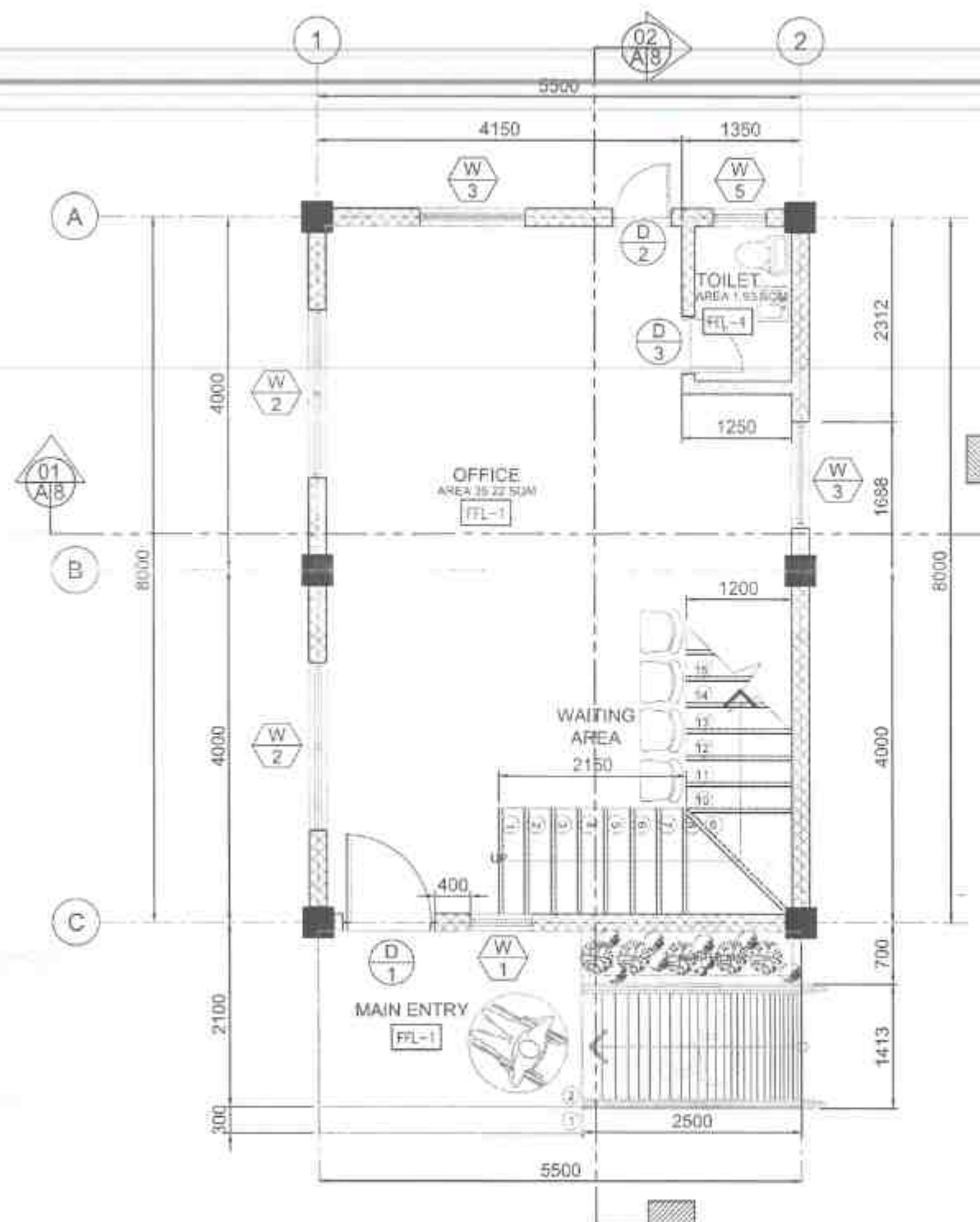
MARK	SPECIFICATION
[CE-1]	4.5mm THK FIBER CEMENT CEILING BOARD ON METAL CARRYING CHANNEL (CEILING JOINT) 15mm x 30mm x 0.5mm Y & D BARS THK AT 1200mm O.C. WITH METAL DOUBLE FURRING CHANNEL (NAILER) 15mm x 50mm x 0.5mm Y & D BARS THK @ 400mm O.C. PAINTED FINISH INSIDE CEILING
[CH-1]	METAL RIS SPANDREL IN PRE-PAINTED FINISH

DRAWING SYMBOLS

SCHEDULE OF FINISHES

[FL-1]	CEILING FINISHES
[FL-2]	FLOOR FINISHES
[W-1]	WALL FINISH OF SAME SIDE OF SYMBOL
[W-2]	WALL OR PARTITION
[W-3]	WALL FINISH OF OTHER SIDE

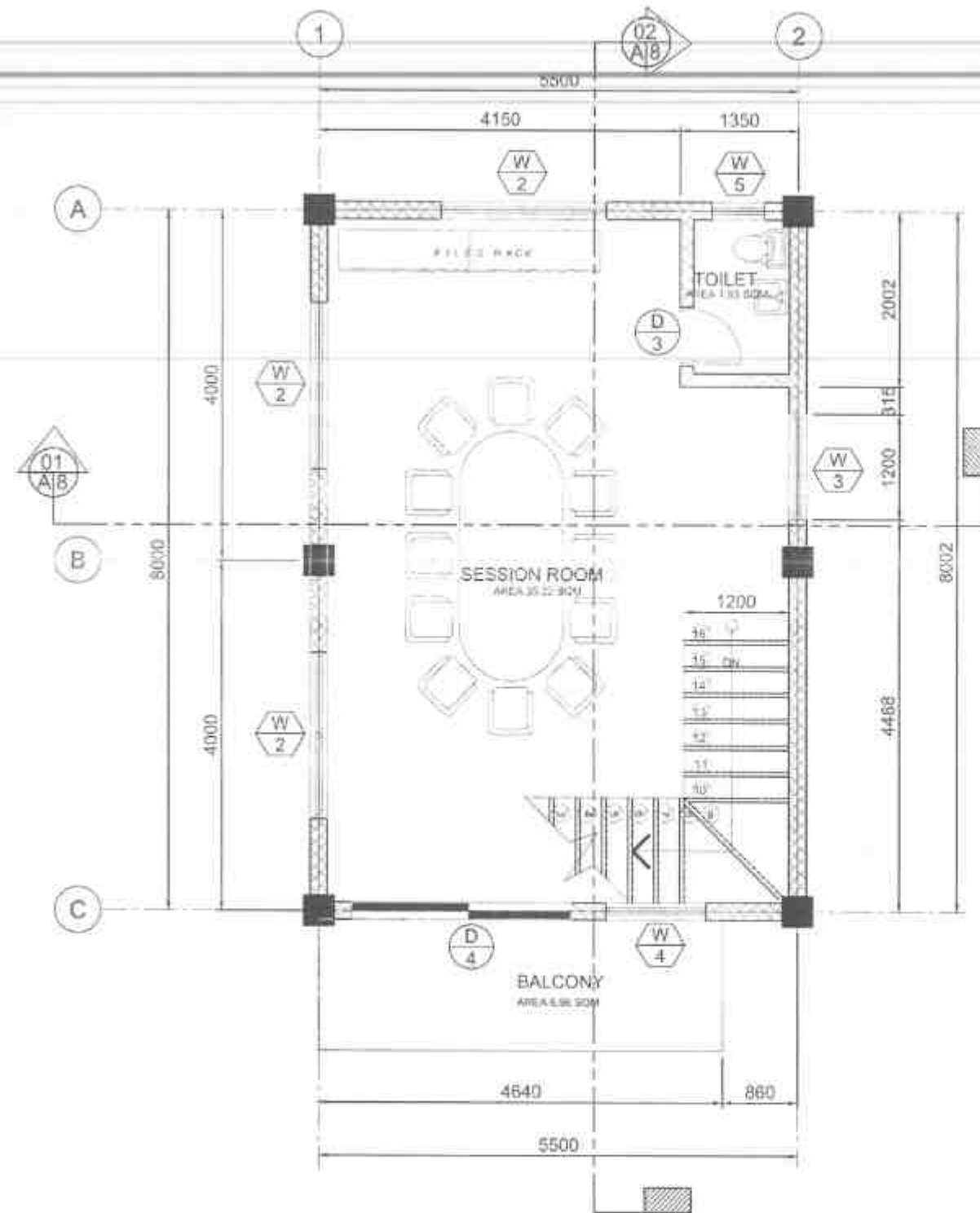
SCOPE OF WORKS



01 GROUND FLOOR PLAN
SCALE 1:50 MTR

NOTE: ARCHITECTURAL PLANS SHALL PREVAIL OVER ALL ENGINEERING PLANS W/ REGARDS TO DIMENSION AND SIZE. ANY DISCREPANCIES FOUND HEREIN, SHALL VERIFY W/ THE ARCHITECT

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE BORO, SOUTHERN LEYTE	PROJECT NAME AND LOCATION: SUPPLEMENTARY AND SPECIAL SUPPLY PROGRAM - BASIC INFRASTRUCTURE PROGRAM (SIP) - MALABALOG DISTRICT - MALABALOG TO SANITARY CANAL, MALABALOG DISTRICT - MALABALOG TO SANITARY CANAL, MALABALOG DISTRICT - MALABALOG TO SANITARY CANAL	SHEET CONTENTS: GROUND FLOOR PLAN	DESIGNED BY: KEATY S. ANDERSON DATE: MAR 26 2025	REVIEWED BY: MIKE RENO M. DELA CRUZ DATE: MAR 31 2025	SUBMITTED BY: RAINELO LOPEZ DATE: MAR 31 2025	RECOMMENDED BY: EVELYN D. DELA CRUZ DATE: APR 04 2025	APPROVED BY: EDUARDO V. SANTOS DATE: APR 04 2025	SHEET NO. 07	SHEET NO. 35
			PREPARED BY: CARROLL CLAYTON DELA CRUZ DATE: MAR 26 2025	ENGINEER: MIKE RENO M. DELA CRUZ DATE: MAR 31 2025	DESIGNER: RAINELO LOPEZ DATE: MAR 31 2025	ASSISTANT DESIGNER: EVELYN D. DELA CRUZ DATE: APR 04 2025	DISTRICT ENGINEER: EDUARDO V. SANTOS DATE: APR 04 2025	2	12



01 SECOND FLOOR PLAN
A-3 SCALE 1:50 MTS.

SCHEDULE OF FINISHES

FLOOR FINISHES

MARK	SPECIFICATION
FFL-1	800x800mm CERAMIC TILES (GLAZED)
FFL-2	800x800mm CERAMIC TILES (UNGLAZED)
FFL-3	CONCRETE SPOXY COATING
FFL-4	300x300mm CERAMIC TILES (UNGLAZED)

WALL FINISHES

MARK	SPECIFICATION
WF-1	PLASTERED CHB WALL W/ SEMI-GLOSS LATEX PAINT FINISH (VERIFY COLOR)
WF-2	300x300mm VITRIFIED GLAZED WALL TILES (VERIFY COLOR)

PARTITION

MARK	SPECIFICATION
P-1	100mm THK. CHB WALL FINISH

CEILING FINISHES

MARK	SPECIFICATION
CE-1	4.5mm THK. FIBER CEMENT CEILING BOARD ON METAL CARRYING CHANNEL (CEILING JOIST) 1500mm X 600mm X 5mm THK. AT 1200mm O.C. WITH METAL DOUBLE FURRING CHANNEL (NAILED) 1500mm X 100mm X 5mm X 0.5mm THK. @ 400mm O.C. PAINTED FINISH INSIDE CEILING
CE-2	METAL RIB SPANDREL IN PRE-PAINTED FINISH

DRAWING SYMBOLS

SCHEDULE OF FINISHES

[Symbol]	CEILING FINISHES
[Symbol]	FLOOR FINISHES
[Symbol]	WALL FINISH OF SAME SIDE OF SYMBOL
[Symbol]	WALL OR PARTITION
[Symbol]	WALL FINISH OF OTHER SIDE

SCOPE OF WORKS

NOTE: ARCHITECTURAL PLANS SHALL PREVAIL OVER ALL ENGINEERING PLANS W/ REGARDS TO DIMENSION AND SIZES. ANY DISCREPANCIES FOUND HEREIN, SHALL VERIFY W/ THE ARCHITECT



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BIDJOL, SOUTHERN LEYTE

PROJECT NAME AND LOCATION

CONSTRUCTION AND MAINTENANCE OF ROAD INFRASTRUCTURE PROJECTS IN THE PROVINCE OF SOUTHERN LEYTE, DIVISION OFFICE OF SOUTHERN LEYTE, BIDJOL, SOUTHERN LEYTE

SHEET CONTENTS

SECOND FLOOR PLAN

DRAWN BY

KEAVY E. BLANDIA
MAR 26 2025
CARILL L. VILLARDO G. DEON
MAR 26 2025

REVIEWED BY

MIRIE NIÑO M. VILLASENCO
MAR 31 2025

SUBMITTED BY

RAINIERA D. RUIZ
MAR 31 2025

RECOMMENDED BY

EVELYN D. RAY
APR 04 2025

APPROVED BY

EDUARDO V. SANTOS
APR 04 2025

SHEET NO.

A
3 12

SHEET NO.

06
35

SCHEDULE OF FINISHES

FLOOR FINISHES

MARK	SPECIFICATION
FFL-1	600x600mm CERAMIC TILES (GLAZED)
FFL-2	600x600mm CERAMIC TILES (UNGLAZED)
FFL-3	CONCRETE EPOXY COATING
FFL-4	300x300mm CERAMIC TILES (UNGLAZED)

WALL FINISHES

MARK	SPECIFICATION
WFL-1	PLASTERED CHB WALL W/ SEMI-GLOSS LATEX PAINT FINISH (VERIFY COLOR)
WFL-2	300MMx300MM VITRIFIED GLAZED WALL TILES (VERIFY COLOR)

PARTITION

MARK	SPECIFICATION
PL	100mm THK. CHB WALL FINISH

CEILING FINISHES

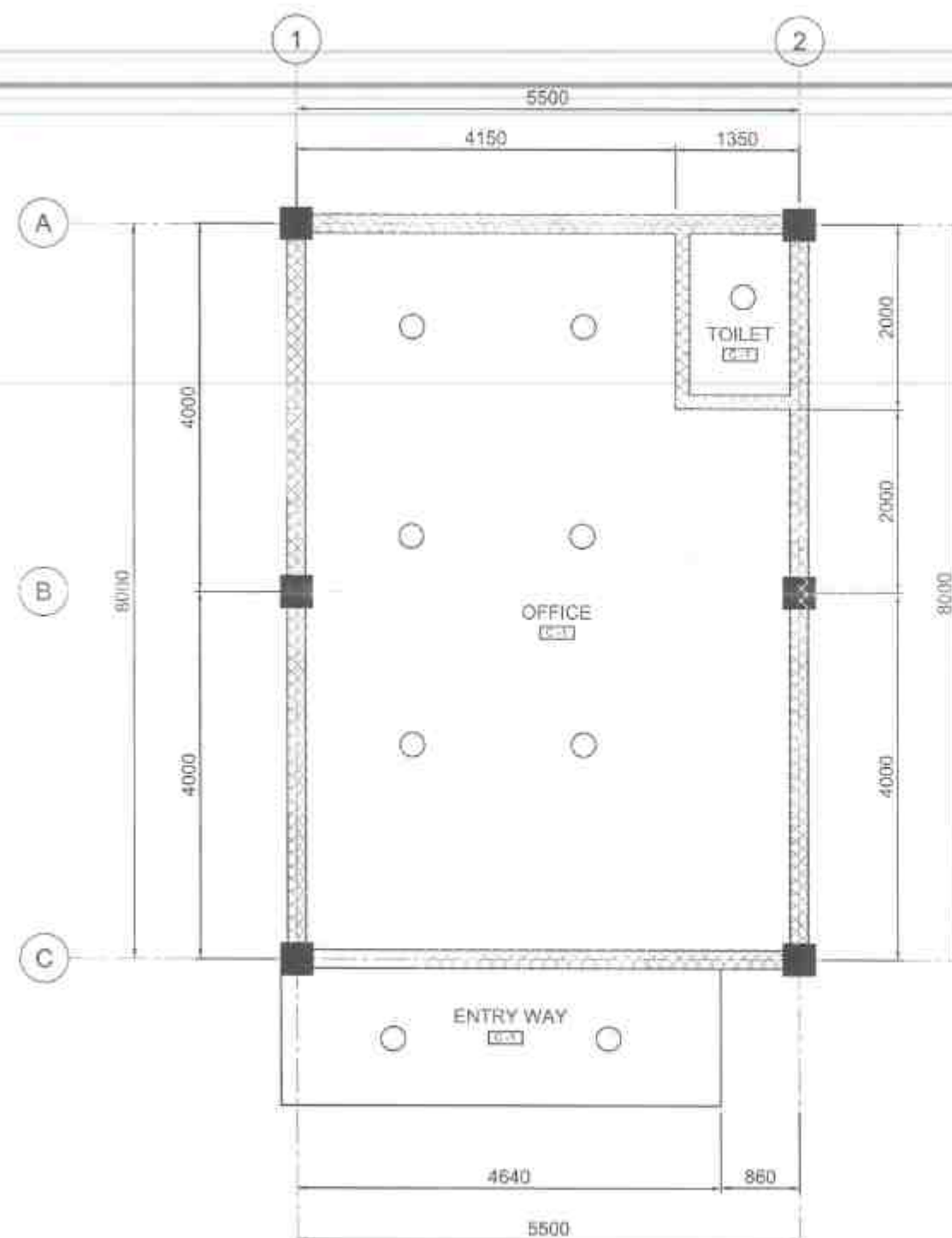
MARK	SPECIFICATION
CCF-1	4.5mm THK. FIBER CEMENT CEILING BOARD ON METAL CARRYING CHANNEL (CEILING JOIST) 18mm X 50mm X 0.6m X 0.9m THK. AT 1200mm O.C. WITH METAL DOUBLE FURRING CHANNEL & NAILER 19mm X 50mm X 0.5m X 0.9m THK. @ 400mm O.C. PAINTED FINISH INSIDE CEILING
CCF-2	METAL RIB SPANDREL IN PRE-PAINTED FINISH

DRAWING SYMBOLS

SCHEDULE OF FINISHES

	CEILING FINISHES
	FLOOR FINISHES
	WALL FINISH OF SAME SIDE OF SYMBOL
	WALL OR PARTITION
	WALL FINISH OF OTHER SIDE

SCOPE OF WORKS



01
A-4
GROUND FLOOR
REFLECTED CEILING PLAN
SCALE 1:50 MTS

NOTE: ARCHITECTURAL PLANS SHALL PREVAIL OVER ALL ENGINEERING PLANS W/ REGARDS TO DIMENSION AND SIZES. ANY DISCREPANCIES FOUND HEREIN, SHALL VERIFY W/ THE ARCHITECT



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
8000C SOUTHERN LEYTE

PROJECT NAME AND LOCATION

TRANSFORMER AND WIRELESS SIGNAL RECEIVING STATION
WHICH SERVES THE COMMUNITY AND ALLS SERVICES AND
PACKAGES TO SUPPORT COMM. SERVICES
CONSTRUCTION COMPLETION OF MULTISTORY BUILDING
AND WIRELESS SIGNAL RECEPTION STATION
AND WIRELESS SIGNAL RECEPTION STATION

SHEET CONTENTS

GROUND FLOOR
REFLECTED CEILING PLAN

DRAWN BY

KEANYA D. MABERA
MAR 26 2025

DATE

CARYLL LEAN JADE OLSON
MAR 26 2025

DATE

REVIEWED BY

MIKE NINO M. VILLASANCIO
MAR 31 2025

DATE

RAINFRED L. O. ROST
MAR 31 2025

DATE

SUBMITTED BY

RAINFRED L. O. ROST
MAR 31 2025

DATE

RAINFRED L. O. ROST
MAR 31 2025

DATE

RECOMMENDED BY

EDUARDO V. SANTOS
APR 08 2025

DATE

EDUARDO V. SANTOS
APR 08 2025

DATE

APPROVED BY

EDUARDO V. SANTOS
APR 04 2025

DATE

EDUARDO V. SANTOS
APR 04 2025

DATE

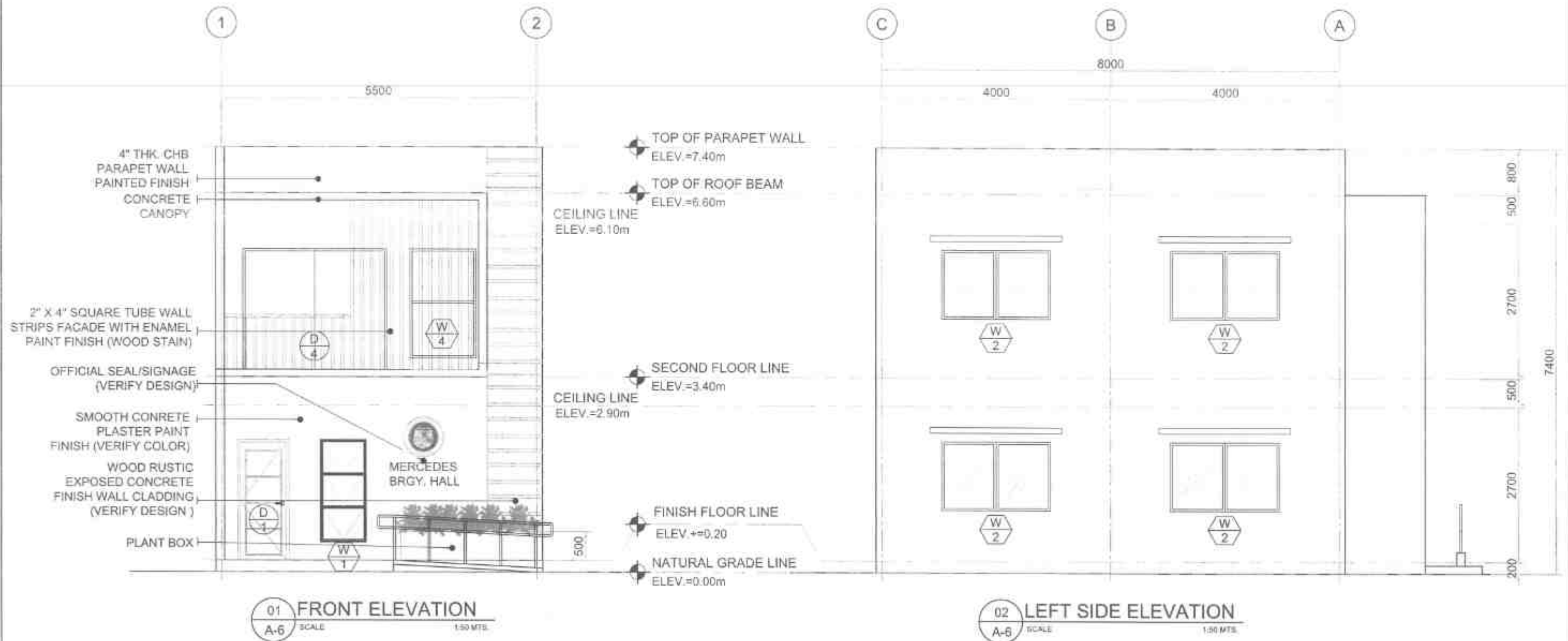
SHEET NO.

09

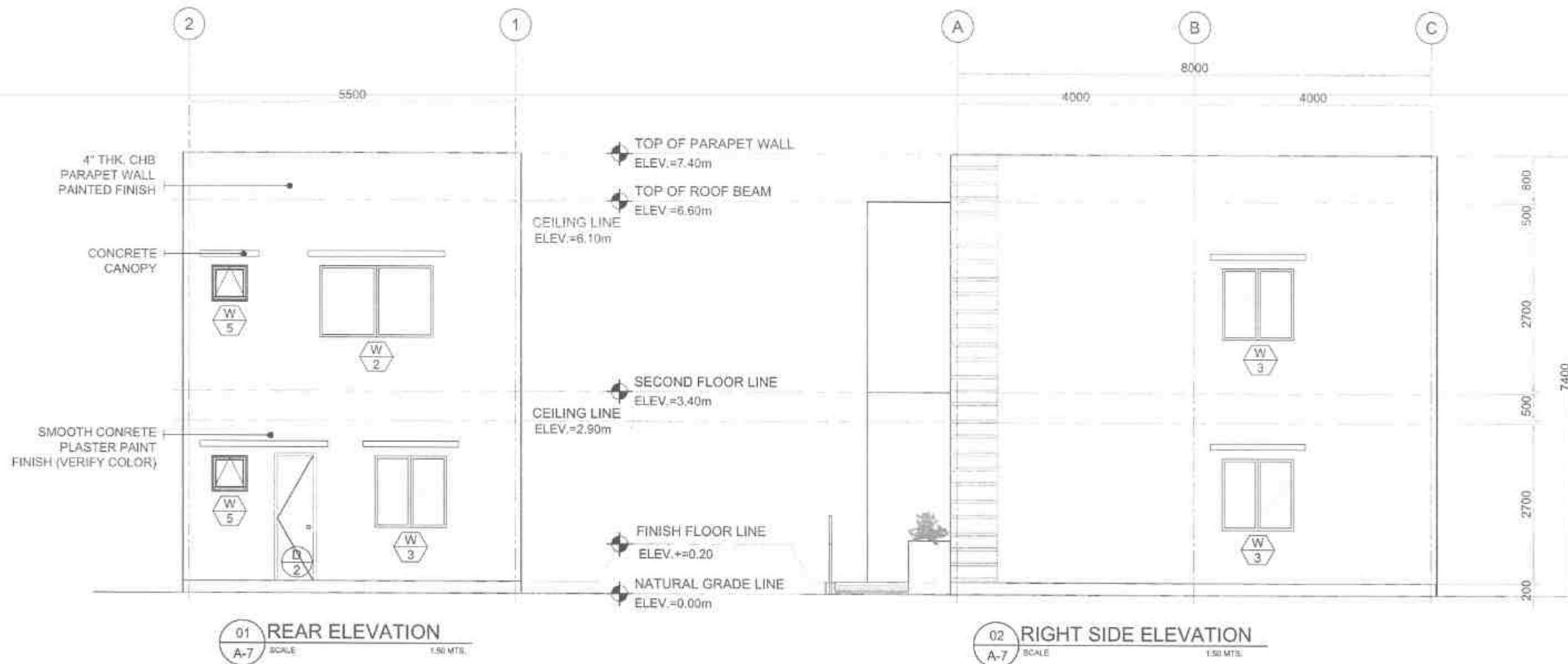
DATE

09

DATE



 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE BOGOD, SOUTHERN LEYTE	PROJECT NAME AND LOCATION: TRANSFORMATION AND UPGRADE OF THE MERCEDES BRGY. HALL - MULTI-PURPOSE BUILDING LOCATED IN MERCEDES BRGY., SOUTHERN LEYTE LIMITED TO THE CONSTRUCTION OF MULTI-PURPOSE BUILDING WITH 2ND FLOOR, 200 SQM, 200 SQM, 200 SQM	SHEET CONTENTS: FRONT ELEVATION LEFT SIDE ELEVATION	DESIGNED BY: KEAVIN CORDERA DATE: MAR 26 2025 PREPARED BY: CARYN LEM, JACEL OZON DATE: MAR 26 2025	REVIEWED BY: MIKE NINO M. VILLARENGO DATE: MAR 31 2025	SUBMITTED BY: RAIMER LOPEZ DATE: MAR 31 2025	RECOMMENDED BY: EDUARDO V. SANDOS DATE: APR 04 2025	APPROVED BY: EDUARDO V. SANDOS DATE: APR 04 2025	SHEET NO. 11 SHEET NO. 35
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INSTITUTION OF THE PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BAGBAG, SOUTHERN LEYTE

PROJECT NAME AND LOCATION
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BAGBAG, SOUTHERN LEYTE

SHEET CONTENTS
REAR ELEVATION
RIGHT SIDE ELEVATION

DRAWN BY
KEVIN A. GONZA
DATE
MAR 26 2025
PREPARED BY
CARLA L. LARADE G. OZON
DATE
MAR 26 2025

REVIEWED BY
MIKE NINO M. VILLALBA
DATE
MAR 31 2025

SUBMITTED BY
RAINIER L. L. SUZ
DATE
MAR 31 2025

RECOMMENDED BY
EVELYN D. YAP
DATE
APR 04 2025

APPROVED BY
EDUARDO V. SANTOS
DATE
APR 04 2025

SHEET NO.
A
12
15

SCHEDULE OF FINISHES

FLOOR FINISHES

MARK	SPECIFICATION
FFL-1	600x600mm CERAMIC TILES (GLAZED)
FFL-2	600x600mm CERAMIC TILES (UNGLAZED)
FFL-3	CONCRETE EPOXY COATING
FFL-4	300x300mm CERAMIC TILES (UNGLAZED)

WALL FINISHES

MARK	SPECIFICATION
WF-1	PLASTERED CHB WALL W/ SEMI-GLOSS LATEX PAINT FINISH (VERIFY COLOR)
WF-2	300x600mm VITRIFIED GLAZED WALL TILES (VERIFY COLOR)

PARTITION

MARK	SPECIFICATION
P-1	150mm THK. CHB WALL FINISH

CEILING FINISHES

MARK	SPECIFICATION
CF-1	4.5mm THK. FIBER CEMENT CEILING BOARD ON METAL CARRYING CHANNEL (CEILING JOIST) 100mm X 50mm X 5mm X 0.5mm Thick AT 1200mm O.C. WITH METAL DOUBLE PURRING CHANNEL (NAILER) 100mm X 50mm X 5mm X 0.5mm THK @ 400mm O.C. PAINTED FINISH INSIDE CEILING
CF-2	METAL RIS SPANDREL IN PRE-PAINTED FINISH

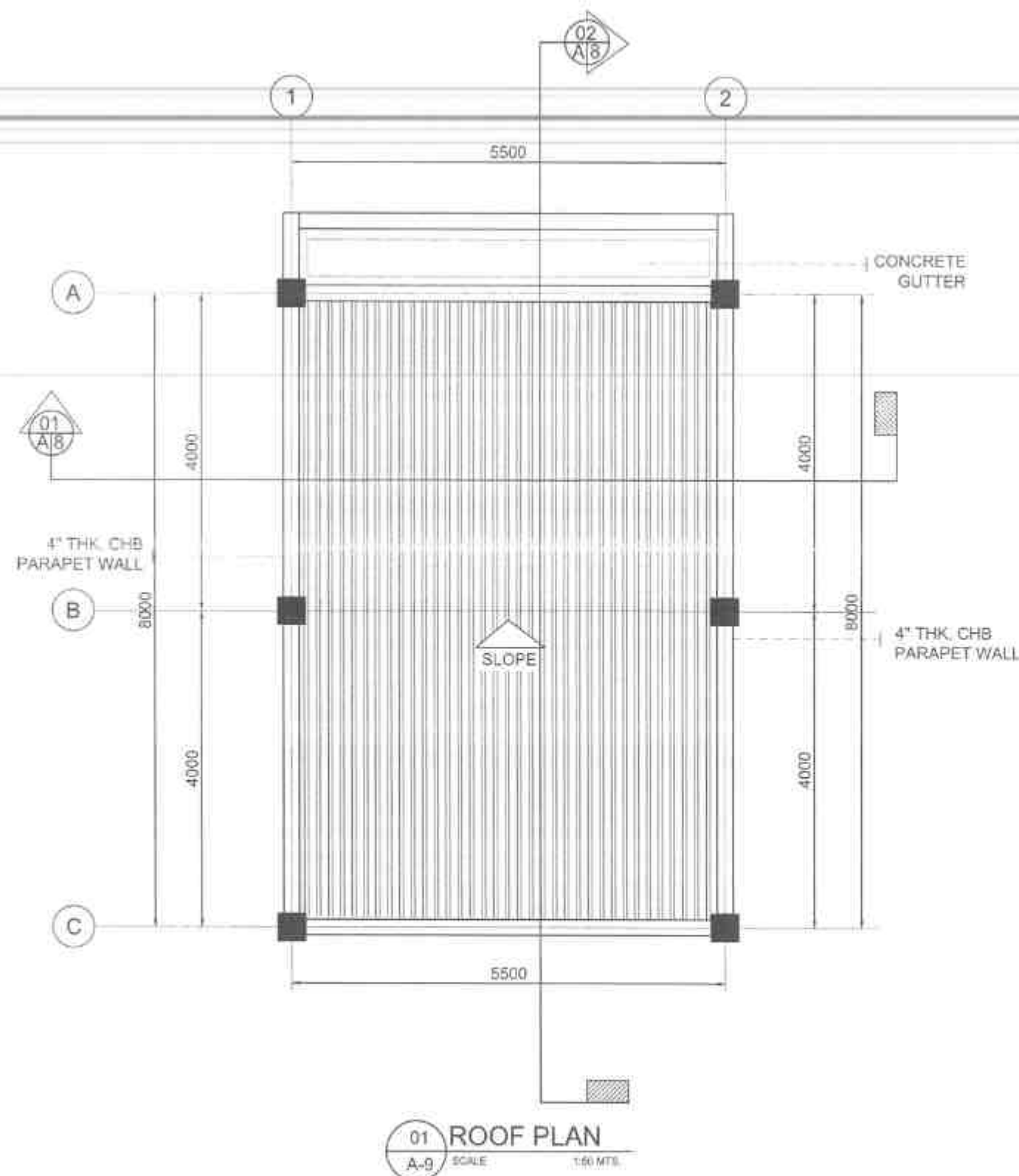
DRAWING SYMBOLS

SCHEDULE OF FINISHES

	CEILING FINISHES
	FLOOR FINISHES
	WALL FINISH OF SAME SIDE OF SYMBOL WALL OR PARTITION WALL FINISH OF OTHER SIDE

SCOPE OF WORKS

NOTE: ARCHITECTURAL PLANS SHALL PREVAIL OVER ALL ENGINEERING PLANS W/ REGARDS TO DIMENSION AND SIZE. ANY DISCREPANCIES FOUND HEREIN, SHALL VERIFY W/ THE ARCHITECT



01 ROOF PLAN
A-9 SCALE 1:50 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VIII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
MIGOD, SOUTHERN LEYTE

PROJECT NAME AND LOCATION:
IMPROVEMENT AND MAINTENANCE PROJECT, BACOT
MUNICIPALITY, SOUTHERN LEYTE, SOUTHERN LEYTE
CONSTRUCTION COMPLETION OF ALL SUPPLEMENTAL
WORK INCLUDED ALONG SOUTHERN LEYTE

SHEET CONTENTS:
ROOF PLAN

DRAWN BY: KEAYEN L. DE VERA
DATE: MAR 26 2025
PREPARED BY: CARYN L. DE VERA
DATE: MAR 26 2025

REVIEWED BY: MIKE NINO M. VILLASACIO
DATE: MAR 31 2025

SUBMITTED BY: RAHMER L. DE VERA
DATE: MAR 31 2025

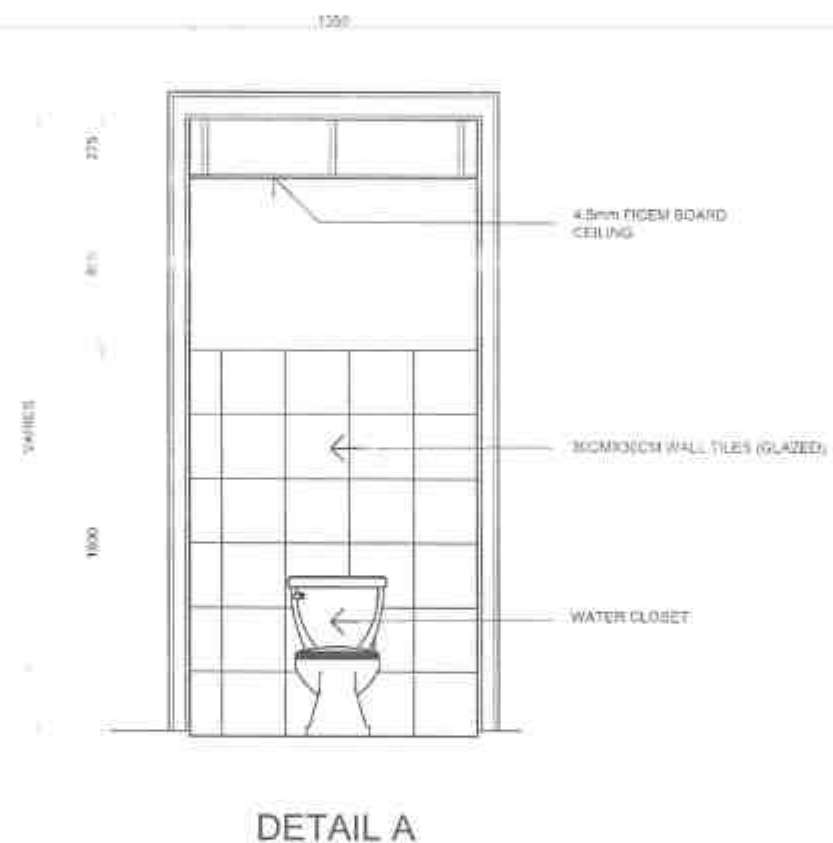
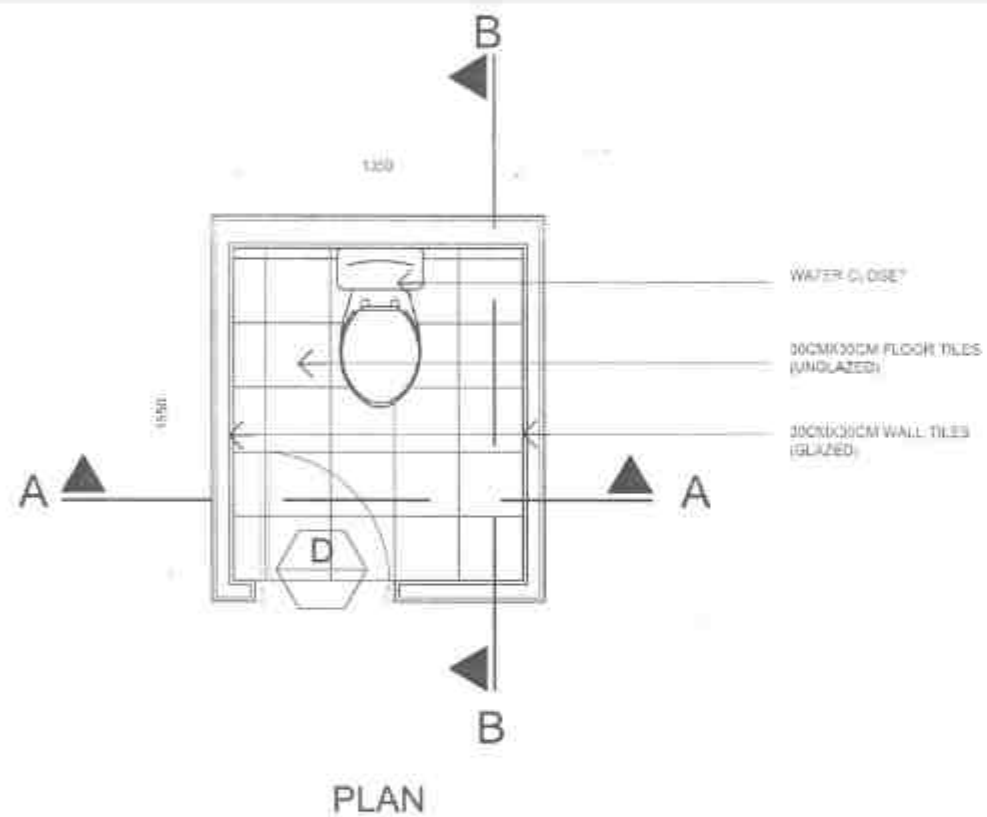
RECOMMENDED BY: EVELYN D. EVERETT
DATE: APR 04 2025

APPROVED BY: EDUARDO V. SANTOS
DATE: APR 04 2025

SHEET NO.: 14
SHEET NO.: 38

PLAN				
ELEVATION				
▼ FIN. FLOOR LINE				
SCHEDULE				
DESCRIPTION	SWING GLASS DOOR	WOODEN PANEL DOOR	PANEL DOOR	ENTRY SLIDING DOOR GLASS
NO. OF SETS	1 SET	1 SET	2 SETS	1 SET
LOCATION	MAIN ENTRANCE	GROUND FLOOR: SERVICE ACCESS	GROUND FLOOR: TOILET SECOND FLOOR: TOILET	SECOND FLOOR: BALCONY
PLAN				
ELEVATION				
▼ FIN. FLOOR LINE				
SCHEDULE				
DESCRIPTION	6MM THK AWNING WINDOW GLASS	6MM THK SLIDING WINDOW GLASS	6MM THK AWNING WINDOW GLASS	6MM THK FIXED WINDOW GLASS
NO. OF SETS	1 SET	3 SETS	3 SETS	1 SET
LOCATION	GROUND FLOOR: ENTRANCE	GROUND FLOOR: OFFICE SECOND FLOOR: SESSION HALL	GROUND FLOOR: OFFICE SECOND FLOOR: SESSION HALL	SECOND FLOOR: BALCONY

01 SCHEDULE OF DOORS AND WINDOWS
A-10 SCALE 1:25 MTL



01 TOILET DETAILS

A-11 SCALE 1:25 MTL

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE 6000 SOUTHERN LEYTE	PROJECT NAME AND LOCATION: CONSTRUCTION AND LAYOUT OF TOILET FACILITIES - BANGOR, SOUTHERN LEYTE DISTRICT, DIVISION OFFICE, REGION VII CONSTRUCTION OF 2ND DISTRICT ENGINEERING OFFICE BUILDING BANGOR, SOUTHERN LEYTE BANGOR, SOUTHERN LEYTE	SHEET CONTENTS: TOILET DETAILS	DRAWN BY: KENNY V. CORDERO DATE: MAR 26 2025 CHECKED BY: CARYLL LEAN ROSE OZON DATE: MAR 26 2025	REVIEWED BY: MARIO M. VILLANUEVA DATE: MAR 31 2025	SUBMITTED BY: RAINIER L. LONC RVG DATE: MAR 31 2025	RECOMMENDED BY: EVELYN D. VILLANUEVA DATE: APR 04 2025	APPROVED BY: EDUARDO V. BANGOR DATE: APR 04 2025	SHEET NO. 16 11 12 35
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CONSTRUCTION GENERAL NOTES

A. GENERAL

1. CONSTRUCTION NOTES & TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
2. SHOP DRAWINGS WITH ERECTION & PLACING DIAGRAM OF ALL STRUCTURAL STEEL, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN. CHECK WITH MECHANICAL & ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE. SHORINGS & BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.

B. CONCRETE & REINFORCEMENT

1. ALL MATERIALS & WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI - 318).
2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMP AS FOLLOWS:

LOCATION	28 DAYS STRENGTH	MAX. SIZE AGGREGATE	MAX. SLUMP
CURBS & SLAB ON GRADE EXCEPT FOUND.	3,000 PSI	1 IN. (25MM.)	4 IN. (100MM)
FOUNDATION & RETAINING WALL	3,000 PSI	3/4 IN. (19MM.)	4 IN. (100MM)
ALL OTHERS INCLUDING BEAMS			
SUSPENDED SLABS & COLUMNS	3,000 PSI	3/4 IN. (19MM.)	4 IN. (100MM)

3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 33KSI FOR MAINBAR, LATERAL TIES & STIRRUPS.
4. IN GENERAL, THE LATEST EDITION OF ACI-318, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR NOTED.
5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SUSPENDED SLABS	20MM
SLAB ON GRADE	40MM
WALLS ABOVE GRADE	25MM
BEAM STIRRUPS	25MM
COLUMN TIES	40MM

WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS 50MM

FOOTINGS 75MM

6. SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.
7. ALL ANCHOR BOLTS, DOWELS, & OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.

8. CONTRACTOR SHALL NOTE & PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT, & MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, & MECHANICAL DRAWINGS.

9. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.

10. STRIPPING OF FORMS & SHORES:

FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	15 DAYS
WALLS	18 HRS.
BEAMS	14 DAYS
COLUMNS	7 DAYS

C. MASONRY & CONCRETE BLOCKS

1. ALL NON-LOAD BEARING TYPE CONCRETE BLOCKS SHALL HAVE A UNIT WEIGHT NOT TO EXCEED 80 PCF. FOR LOAD BEARING TYPE CONCRETE BLOCKS, A MINIMUM COMPRESSIVE STRENGTH OF 6.90 MPA, SHALL BE DEVELOPED.
2. PROVIDE 1- Ø 16 VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS & EACH SIDE OF OPENINGS.
3. LINTEL BEAMS SHALL BEAR AT LEAST 8 INCHES (200 MM.) ON EACH SIDE OF MASONRY WALL OPENING.
4. WALL REINFORCEMENTS (UNLESS INDICATED) SHALL BE AS FOLLOWS:

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
8 IN. (200 MM.)	Ø 12 @ 400 MM.	Ø 10 @ 600 MM.
6 IN. (150 MM.)	Ø 10 @ 600 MM.	Ø 10 @ 600 MM.
4 IN. (100 MM.)	Ø 10 @ 600 MM.	Ø 10 @ 600 MM.
5. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 30 BAR DIAMETERS WHERE SPLICED. DOWELS FROM CONCRETE FOOTINGS OR SLABS SHALL EXTEND INTO THE BLOCK WALL A MINIMUM OF 30 BAR DIAMETERS, & DOWELS TO MATCH VERTICAL REINFORCEMENTS OF WALL.
6. ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT.

D. NOTES ON FOUNDATION

1. FOOTING SIZES WERE DESIGNED BASED ON ASSUMED BEARING CAPACITY OF 150KPA. PLEASE CONDUCT SOIL INVESTIGATION PRIOR TO CONSTRUCTION. IF THE SOIL IS SAND OR CLAY PLEASE INFORM THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION TO REDESIGN THE FOOTING.
2. FOUNDATION SHALL REST ON NATURAL SOIL. UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED & PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.
4. FOOTING CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH ATLEAST $f'_c = 3500 \text{ psi}$ or 24 Mpa .
5. FOOTING REINFORCEMENT SHALL BE GRADE 60 or $f_y = 60,000 \text{ psi} / 414 \text{ MPa}$.
6. ANY CHANGES IN THE FOUNDATION DEPTH SHALL BE REPORTED TO THE DESIGNER PRIOR TO CONSTRUCTION.
7. FOUNDATION CONCRETE SHALL BE POURED OVER A BASE COURSE CONSISTING OF 50mm CRUSHED AND COMPACTED GRAVEL BED AND 75mm LEAN CONCRETE.

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2 ND DISTRICT ENGINEERING OFFICE 50000 SOUTHERN LEYTE	PROJECT NAME AND LOCATION SOUTHERN LEYTE 2 ND DISTRICT ENGINEERING OFFICE 50000 SOUTHERN LEYTE	SHEET CONTENTS GENERAL CONSTRUCTION NOTES	DRAWN BY ALEJANDRO C. BUTANAY DATE MAY 26 2025	REVIEWED BY MIGUEL NINO M. VILLASANO DATE MAR 31 2025	SUBMITTED BY RAINIER C. RUIZ DATE MAR 31 2025	RECOMMENDED BY EVELYN S. LAYO DATE APR 04 2025	APPROVED BY EDUARDO V. SANTOS DATE APR 04 2025	SHEET NO. 5	SHEET NO. 12

1. COLUMN CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH ATLEAST $f_c = 35000\text{psi} / 24\text{Mpa}$.
2. COLUMN REINFORCEMENT SHALL BE GRADE 60 or $f_y = 60\,000\text{ psi} / 414\text{ Mpa}$ for Mainbar and Grade 40 $f_y = 40,000\text{psi} / 275\text{Mpa}$ for Secondary Bars (Ties and Stirrups).
3. COLUMN REINFORCEMENT SHALL BE SPLICED ONLY WITHIN THE MIDDLE THIRDS OF THE CLEAR HEIGHT OR OUTSIDE THE DISTANCE OF 500mm FROM FLOOR OR BEAM SOFFIT.
4. ALL COLUMN REINFORCEMENT SPLICING SHALL BE STAGGERED AT A DISTANCE OF 600mm.
5. COLD JOINTS SHALL BE ALLOWED ONLY OUTSIDE A DISTANCE OF 700mm FROM FLOOR OR BEAM SOFFIT.
6. PROVIDE ADEQUATE CONTROL JOINTS FOR ALL CONCRETE COLD JOINTS.
7. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINF. SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10mm TIES at 100mm SHALL BE PROVIDED THRU OFFSET REGION.
8. UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 times BAR DIAMETERS. WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.

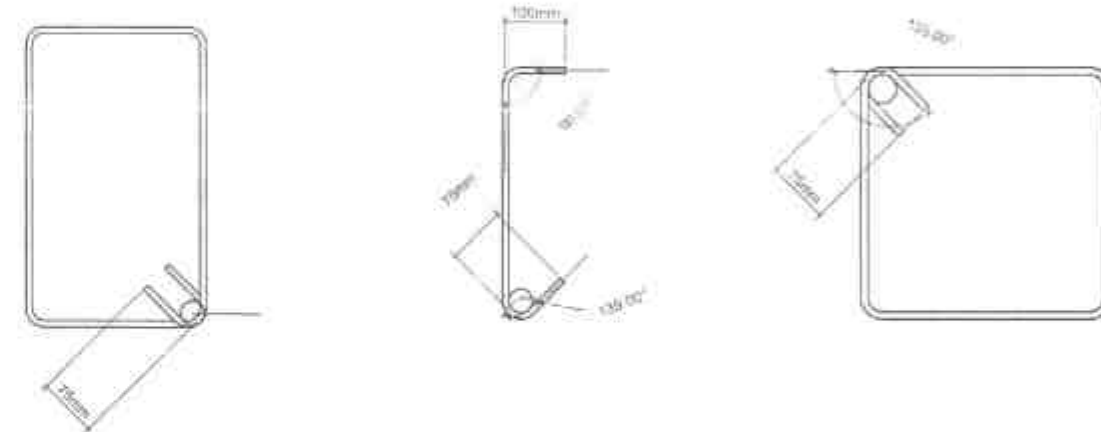
1. BEAMS CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH ATLEAST $f_c = 3500 \text{ psi} / 24 \text{ Mpa}$.
2. BEAMS REINFORCEMENT SHALL BE GRADE 60 or $f_y = 60,000 \text{ psi} / 414 \text{ Mpa}$ for Mainbar and Grade 40 or $f_y = 40,000 \text{ psi} / 275 \text{ Mpa}$ (Ties and Stirrups).
3. BEAM REINFORCEMENT SHALL BE SPLICED ONLY IN THE FOLLOWING LOCATIONS:
 - a. TOP BARS: WITHIN MIDDLE THIRDS OF THE CLEAR SPAN.
 - b. BOTTOM BARS: OUTSIDE A DISTANCE TWICE THE BEAM DEPTH FROM THE FACE OF THE COLUMN.
4. BEAM CONCRETE SHALL BE POURED MONOLITHICALLY WITH THE SLAB, NO COLD JOINTS ALLOWED.
5. NO ELECTRICAL/PLUMBING PIPES AND CONDUITS SHALL BE MADE TO PASS THROUGH ANY STRUCTURAL MEMBER. PROVIDE PIPE RACKS ATTACHED TO THE UNDERSIDE OF THE SLAB.
6. SPECIAL STIRRUPS SHALL BE PROVIDED WITHIN LAP SPLICES (Same spacing at Confinement Zone)

1. SLAB CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AT LEAST $f_c = 3500 \text{ psi} / 24 \text{ Mpa}$.
2. SLAB REINFORCEMENT SHALL BE GRADE 40 OR $f_y = 40,000 \text{ psi} / 275 \text{ Mpa}$.
3. SLAB CONCRETE SHALL BE POURED MONOLITHICALLY WITH THE SUPPORTING BEAMS. NO COLD JOINTS ALLOWED.
4. NO ELECTRICAL/PLUMBING PIPES AND CONDUITS SHALL BE MADE TO PASS THROUGH ANY STRUCTURAL MEMBER. PROVIDE PIPE RACKS ATTACHED TO THE UNDERSIDE OF THE SLAB.

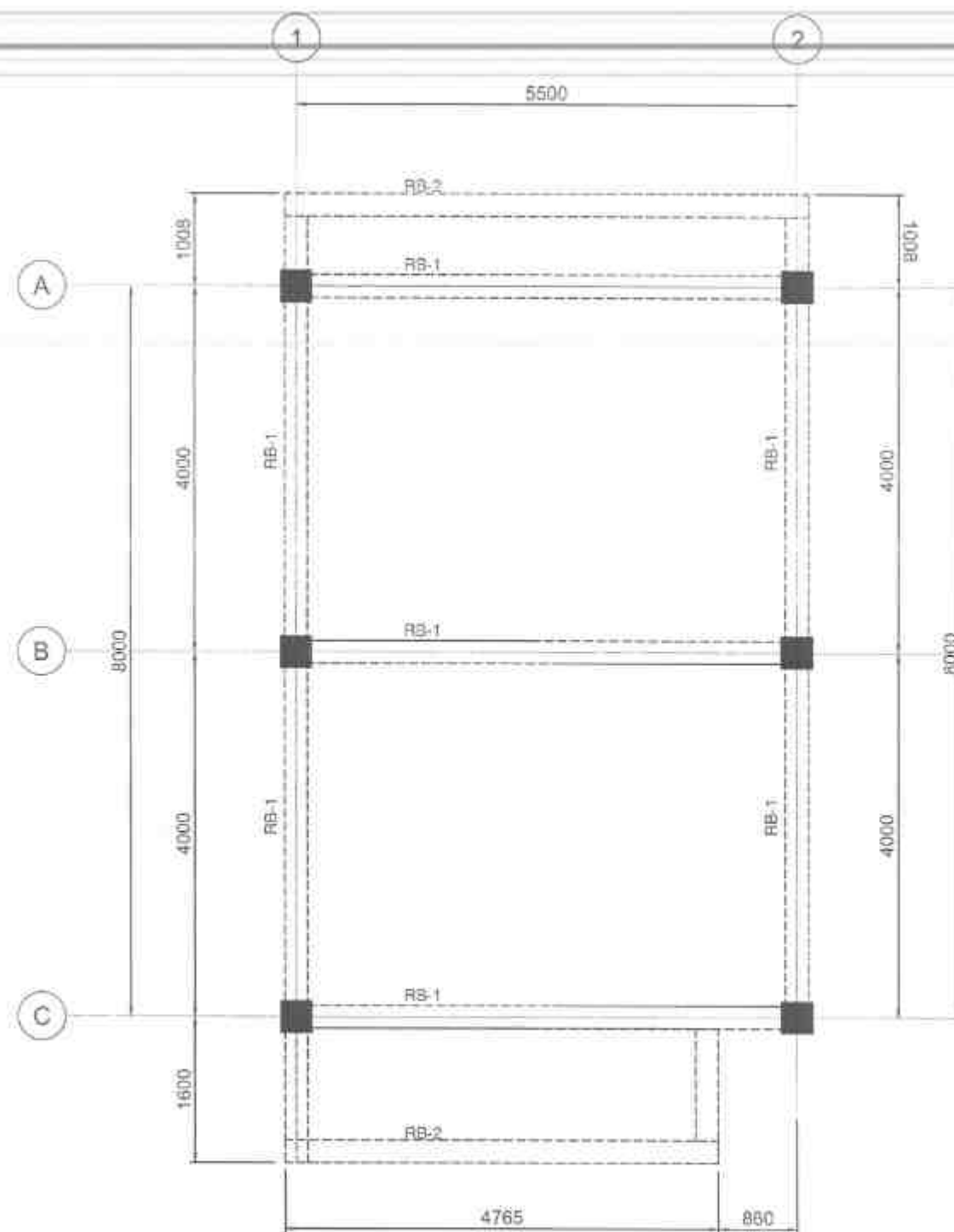
1. USE EPOXY BASED CEMENTITIOUS GROUT IN LIEU OF CONVENTIONAL CONCRETE FOR CONCRETE TO STEEL BEAM CONNECTION JOINTS WITHIN ZONES SPECIFIED IN THE PLAN.

~~2. ALL STRUCTURAL REINFORCEMENTS SHALL NOT BE FIELD-BENT UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.~~

BAR DIAMETER	MINIMUM INSIDE BEND DIAMETER	HOOK LENGTH
10MM	40MM	100MM
12MM	48MM	105MM



BAR DIAMETER	MINIMUM INSIDE BEND DIAMETER	HOOK LENGTH	SPLICE LENGTH
10mm	80mm	160mm	300mm
12mm	72mm	192mm	400mm
16mm	96mm	256mm	700mm
20mm	120mm	320mm	900mm



01 ROOF BEAM PLAN
S-3 SCALE 1:50 MTD



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VIII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BOHOL, SOUTHERN LEYTE

PROJECT NAME AND LOCATION

CONCEPTUAL AND PRELIMINARY DESIGN - BASED
APPROXIMATE PROPOSED ROOF AREA (SQUARE METERS)
SUGGESTED TO SUPPORT ROOF AREA (SQUARE METERS)
CONSTRUCTION COST (PESOS) OF ALL SUPPLIES AND LABORS
ESTIMATED ROOF AREA (SQUARE METERS)
WHICH INCLUDING ALL SUPPLIES AND LABORS

SHEET CONTENTS

ROOF BEAM PLAN

DRAWN BY

ALEXANDER C. VILLARDO
ENGINEER II

CHECKED BY

JURGENE C. VILLARDO
ENGINEER II

DATE

MAR 26 2025

REVIEWED BY

MICHAEL M. VILLARDO
ENGINEER II

DATE

MAR 31 2025

SUBMITTED BY

RAIMON C. RUIZ
CHIEF PLANNING SECTION

DATE

MAR 31 2025

RECOMMENDED BY

EVELYN D. LUP
ASSISTANT DISTRICT ENGINEER

DATE

APR 04 2025

APPROVED BY

EDUARDO V. SAN JOSE
DISTRICT ENGINEER

DATE

APR 04 2025

SET NO.

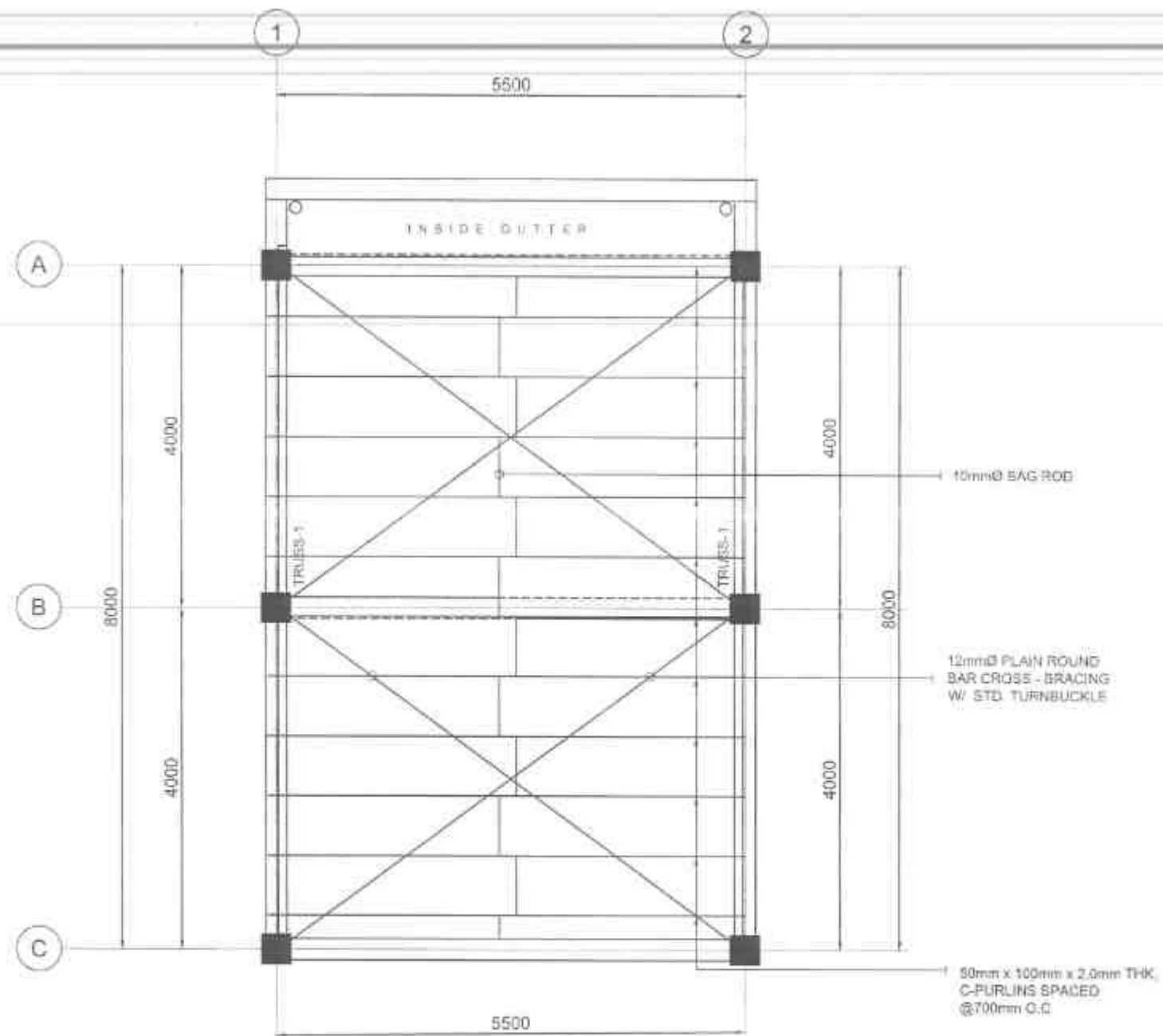
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SHEET NO.

20

35



01 ROOF FRAMING PLAN
S-4 SCALE 1:50 MTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VIII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BAGUO, SOUTHERN LEYTE

PROJECT NAME AND LOCATION

CONSTRUCTION AND/OR MAINTENANCE WORK
INFRASTRUCTURE PROJECTS - ALL SERVICES ENGINEERING
FACILITIES TO SUPPORT ROAD, BRIDGE,
CONSTRUCTION AND/OR MAINTENANCE OF ALL TYPES OF
ROADS, BRIDGES, TUNNELS, AIRPORTS, SEAPORTS,
AND OTHERS AS REQUIRED

SHEET CONTENTS

ROOF FRAMING PLAN

DRAWN BY
ALLIANCE ENGINEERING
DISTRICT ENGINEER
JUNROME C. ALLEJO
DATE
MAR 31 2025

REVIEWED BY
MINI NIÑO M. VILLARREAL
ENGINEER
DATE
MAR 31 2025

SUBMITTED BY
RAINER LOPEZ
CHIEF PLANNING & DESIGN DIVISION
DATE
MAR 31 2025

RECOMMENDED BY
EDUARDO V. SANTOS
DISTRICT ENGINEER
DATE
APR 04 2025

APPROVED BY
EDUARDO V. SANTOS
DISTRICT ENGINEER
DATE
APR 04 2025

REV NO. 1
SHEET NO. 21
4 E 25

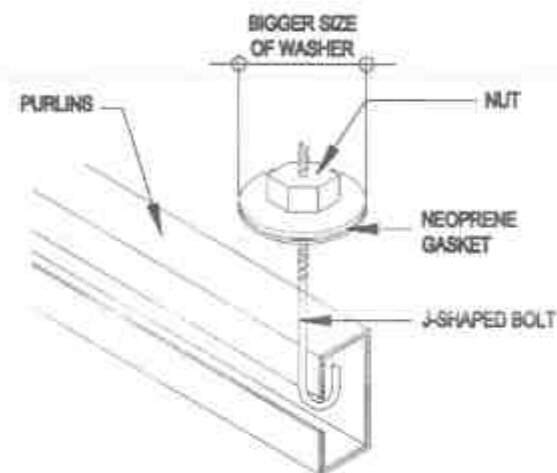
MARK	DIMENSION (mm)		BAR Ø (mm)	STEEL REINFORCEMENTS						WEB/ TORSION BARS (12mmØ)		STIRRUPS
	B	D		LEFT SUPPORT		MID SPAN		RIGHT SUPPORT				
				TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM			
RB-1	250	300	20	3		3		3				
					3		3		3			

J-BOLTS @ EVERY 3RD CORR.

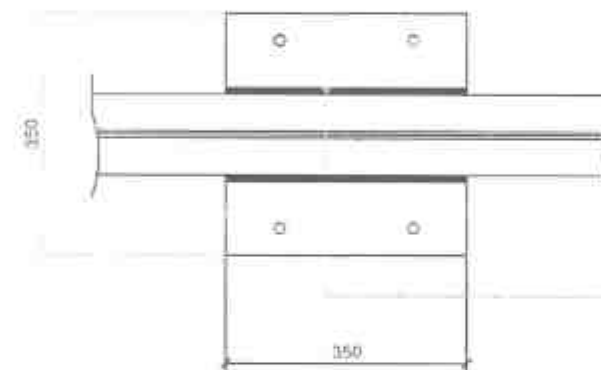
LC PURUN

LC PURUN

01 J-BOLT SPACING
S-5 SCALE 1:10 MTS

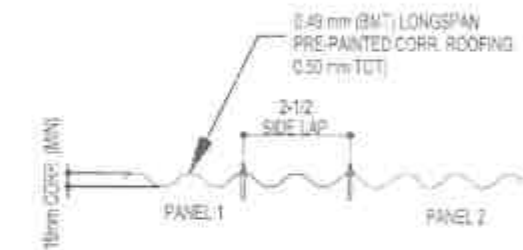


02 ROOFING FIXER

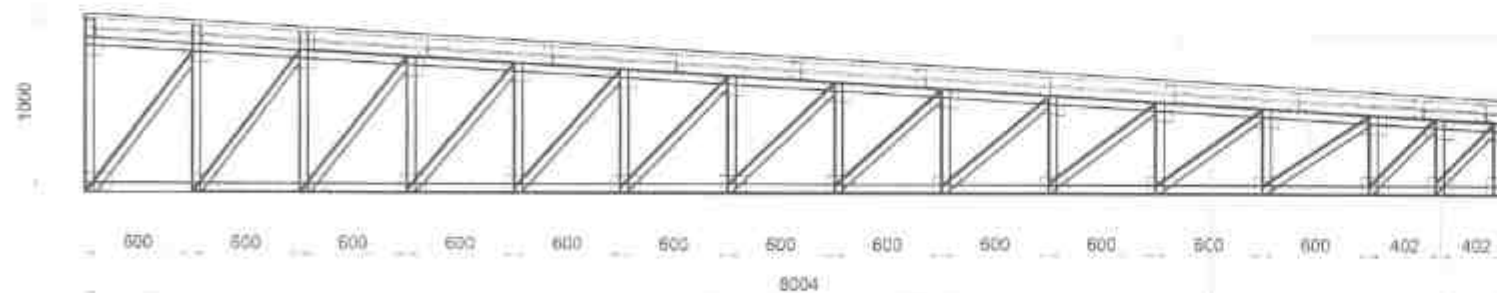


03 BASE PLATE DETAIL
S-5 SCALE 1 TO 10 MTR

04 ANCHOR BOLT DETAIL
S-5 SCALE NTS

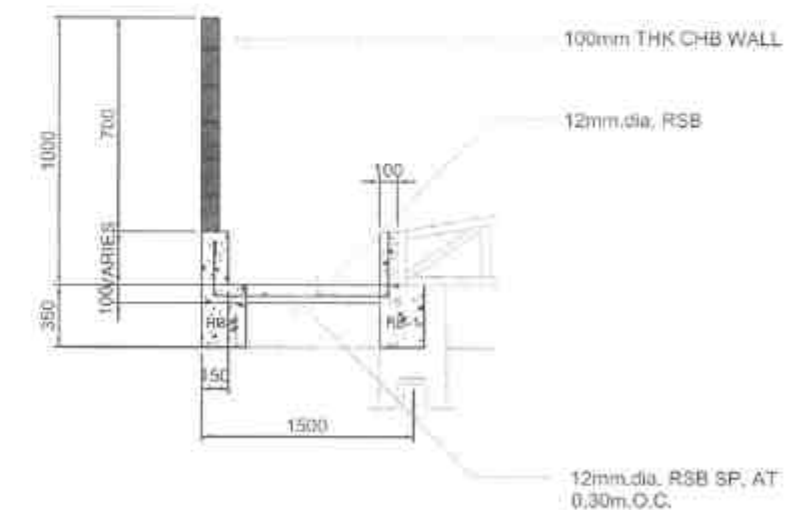


05 ROOF PANEL SIDE LAP DETAIL



06 TRUSS DETAILS
S-5 SCALE 1:30 MTS

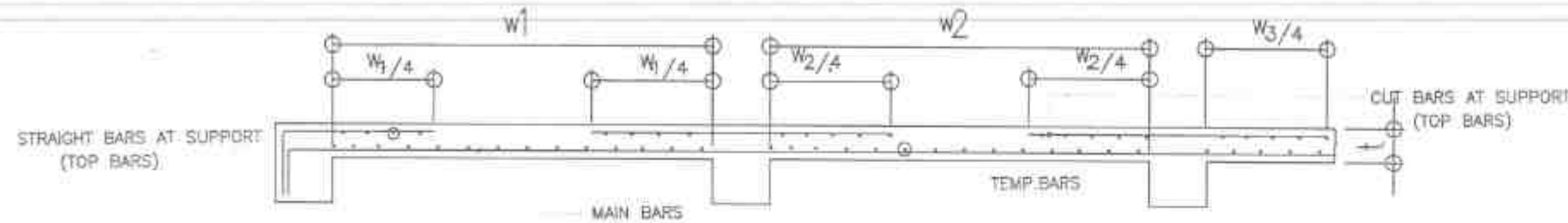
- 10mmØ SAG ROD
- 50mm x 50mm x 6mm THK.
ANGLE BAR CLEATS
- 2- 38mm x 38mm x 6mm THK.
ANGLE BAR WEB MEMBERS



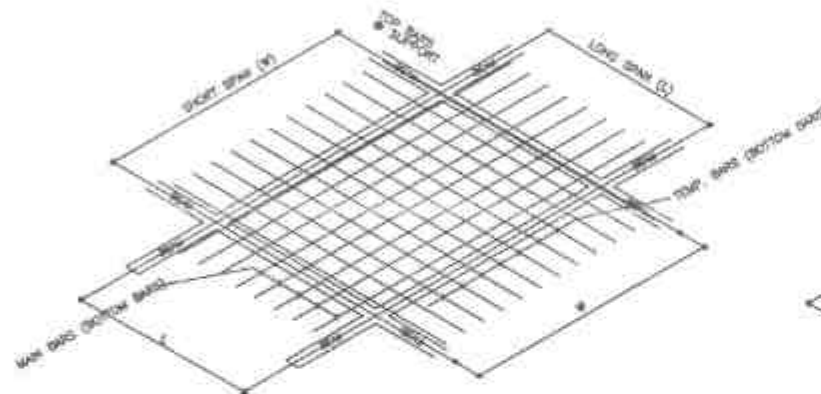
07 PARAPET DETAILS
S-5 SCALE: 1/80 MTS.

SCHEDULE OF SECOND FLOOR SLAB REINFORCEMENT

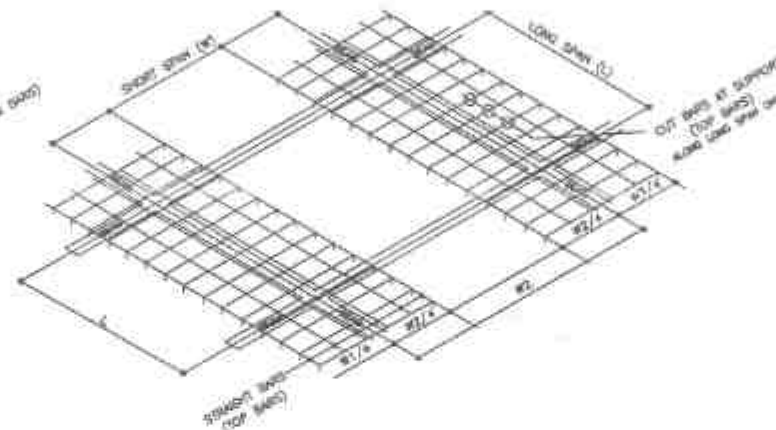
SLAB NO.	THICK (mm)	ALONG SHORT SPAN		ALONG LONG SPAN		REMARKS
		TOP BARS	BOT. BARS	TOP BARS	BOT. BARS	
S1	125	10mmØ @ 200mm O.C.	10mmØ @ 200mm O.C.	10mmØ @ 200mm O.C.	10mmØ @ 200mm O.C.	ONE-WAY
S1	125	10mmØ @ 200mm O.C.	10mmØ @ 200mm O.C.	10mmØ @ 200mm O.C.	10mmØ @ 200mm O.C.	TWO-WAY



SLAB REINFORCEMENT SECTION

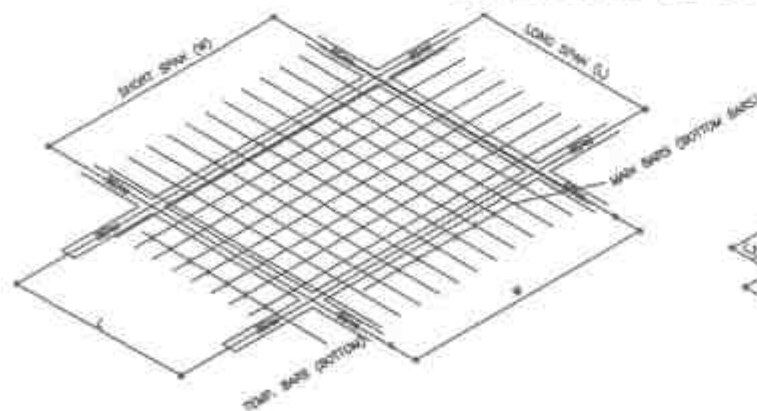


ONE WAY SLAB BOTTOM BARS
LAY-OUT PLAN

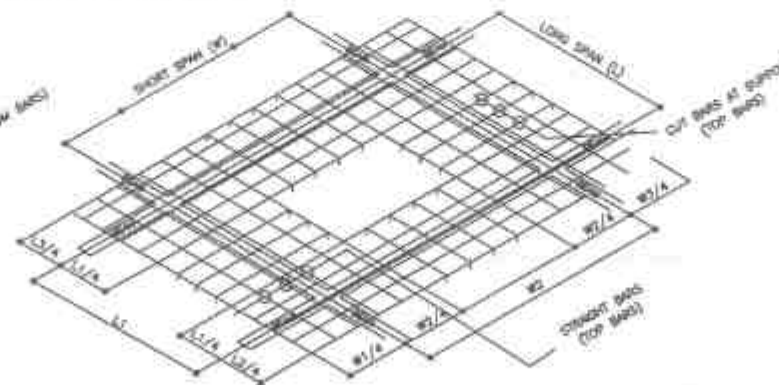


ONE WAY SLAB TOP BARS
LAY-OUT PLAN

ONE-WAY SLAB DETAIL



TWO WAY SLAB BOTTOM BARS
LAY-OUT PLAN



TWO WAY SLAB TOP BARS
LAY-OUT PLAN

TWO WAY SLAB DETAIL

SCHEDULE OF COLUMN

2ND FLOOR BEAM TO ROOF BEAM	Ø #16	
	DIMENSION (mm)	350mm x 350mm
	VERTICAL REBARS	8- 16mmØ
	CONF. REINF (ENDS)	2 sets -10Ø: 1@50mm, 7@75mm
	TIES (MIDDLE)	2 sets -10Ø: REST@150mm
	SPLICE REINF.	2 sets -10Ø: 80mm Entire Splice Length
	JOINT REINF.	2 sets -10Ø: 100mm Spacing



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
3003AS SOUTHERN LEYTE

PROJECT NAME AND LOCATION
CONSTRUCTION OF SPECIAL ECONOMIC ZONE (SEZ) AND
INDUSTRIAL ZONE (IZ) IN THE PROVINCE OF SOUTHERN LEYTE
SUBDIVISION OF SOUTHERN LEYTE DISTRICT
SUBDIVISION OF SOUTHERN LEYTE DISTRICT

SHEET CONTENTS
SCHEDULE OF COLUMN (SF TO RB)
SLAB DETAILS

DRAWN BY: ALEXANDER S. SORIANO
DATE: 31 MAR 2025
CHECKED BY: JIMMY C. VILLALBA
DATE: 06 MAR 2025

REVIEWED BY: MIKE RINGO V. VILLASANO
DATE: 31 MAR 2025

SUBMITTED BY: RAINEY R. S. RUIZ
DATE: 31 MAR 2025

RECOMMENDED BY: EVELYN D. S. SORIANO
DATE: 04 APR 2025

APPROVED BY: EDUARDO V. SANTOS
DATE: 04 APR 2025

SHEET NO.: 5
SHEET NO.: 23
SHEET NO.: 35

GENERAL NOTES

ALL ELECTRICAL WORKS INCLUDED HEREIN SHALL BE CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE AND NATIONAL BUILDING CODE, THE RULES AND REGULATIONS OF THE LOCAL AUTHORITY CONCERNED AND REQUIREMENTS OF THE UTILITY COMPANY.

- THE ELECTRICAL WIRING INSTALLATION SHALL BE DONE IN INTERMEDIATE METALLIC CONDUIT (IMC) CONDUITS INSTALLED BELOW GRADE / SLABS AND WITHIN SLABS SHALL BE RIGID STEEL OR PVC SCHEDULE 40. FLEXIBLE CONDUITS SHALL BE USED WHERE REQUIRED. MINIMUM SIZE OF CONDUITS SHALL BE 15mm INTERNAL DIAMETER.
- MINIMUM SIZE OF BRANCH CIRCUIT WIRE SHALL BE 3.50 SQ. MM THHN WIRES SHALL BE INSULATED FOR 600 VOLTS AND SHALL BE COLOR CODED.
- UTILITY VOLTAGE TO THE UNIT SHALL BE SINGLE PHASE, 2-WIRE, 230V, 60HZ.
- WHENEVER NECESSARY PULL BOX OF THE PROPER SIZE AND DIMENSIONS SHALL BE PROVIDED ALTHOUGH NOT INDICATED IN THE PLANS.
- ALL PANEL BOARDS SHALL BE PROVIDED WITH GROUNDING TERMINAL STRIP GROUNDING SYSTEM SHALL BE CONNECTED TO A GROUNDING ROD AND/OR TO THE NEAREST COLD WATER PIPE.
- ALL PANEL BOARDS SHALL BE PROVIDED WITH IDENTIFICATIONS AND LOAD DIRECTORY.
- REGULATED POWER OUTLETS AND DEVICES SHALL BE PROPERLY LABELED.
- MOUNTING HEIGHT NOT SHOWN ON PLANS SHALL BE AS FOLLOWS:

- | | | |
|----|----------------------------|--------------------------------|
| a. | SWITCHES | 1.40mts. ABOVE F.F.L. @ CENTER |
| b. | CONVENIENCE OUTLETS | 0.30mts. ABOVE F.F.L. @ CENTER |
| c. | TELEPHONE/ INTERCOM OUTLET | 0.30mts. ABOVE F.F.L. @ CENTER |
| d. | PANEL BOARD | 1.40mts. ABOVE F.F.L. @ CENTER |

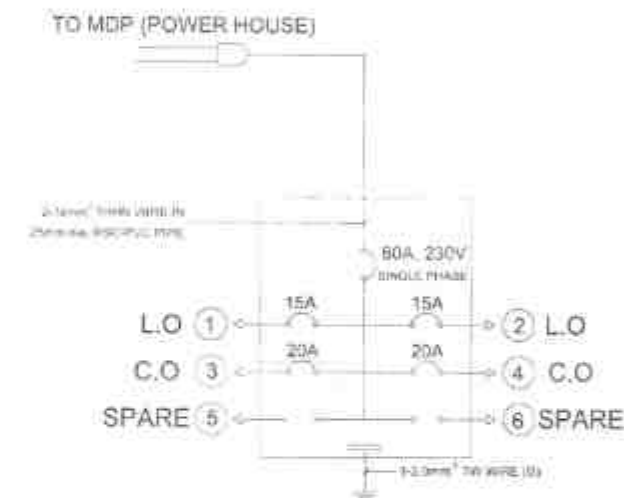
UNLESS OTHERWISE INDICATED BY THE FIELD CONDITION.

- ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED TYPE FOR THE LOCATION AND PURPOSE FOR WHICH THEY ARE TO BE INSTALLED.
- THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION THE SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY AND ALSO THE ACTUAL LOCATION OF TELEPHONE SYSTEM ENTRANCE FOR CONNECTION TO THE LOCAL TELEPHONE CABLE FACILITIES.
- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY QUALIFIED LICENSE ELECTRICAL ENGINEER.
- ALL MOUNTING HEIGHTS ARE SUBJECT TO THE APPROVAL OF THE DESIGNER.

LEGEND

	CEILING RECEPTACLE WITH LED BULB - 9W
	1200mm RECESSED TYPE DUST PROOF LOUVER WITH 2-18W LED TUBE
	CONVENIENCE OUTLET
	TWO GANG SWITCH
	PANEL BOARD
	CIRCUIT HOMERUN
	CIRCUIT LINE
	KWH METER
	WEATHER HEAD CAP

RISER DIAGRAM



SCHEDULE OF LOADS

SCHEDULE OF LOAD: PANEL BOARD (LIGHTING AND POWER PANEL)							
CKT NO.	DESCRIPTION	QTY	VOLT	WATTS	I in AMPERES	PROTECTION PER CIRCUIT	SIZE OF WIRE AND CONDUIT
1	LIGHTING OUTLET	9	220	900	3.91	15 A	2-3.5mm² THHN WIRE + 1-2.0mm² TW WIRE (G) IN 15mmØ PVC Pipe
2	LIGHTING OUTLET	9	220	900	3.91	15 A	2-3.5mm² THHN WIRE + 1-2.0mm² TW WIRE (G) IN 15mmØ PVC Pipe
3	POWER OUTLET	8	220	2880	12.52	20 A	2-3.5mm² THHN WIRE + 1-2.0mm² TW WIRE (G) IN 20mmØ PVC Pipe
4	POWER OUTLET	6	220	2160	9.39	20 A	2-3.5mm² THHN WIRE + 1-2.0mm² TW WIRE (G) IN 20mmØ PVC Pipe
5	SPARE	"	"	"	"	"	
6	SPARE	"	"	"	"	"	
TOTAL:				6840	29.73	60 A	2-14.0mm² THHN WIRE + 1-3.5mm² TW WIRE (G) IN 25mmØ PVC Pipe

@100% DEMAND FACTOR

$$IT = (29.73)(80\%)$$

$$IT = 23.79 \text{ A}$$

WIRE: 2-14.0mm² THHN WIRE + 1-3.5mm² TW WIRE (G) IN 25mmØ PVC Pipe

BREAKER: 60 AT, 220V, 2P

PROFESSIONAL ELECTRICAL ENGINEER
LICENSE NO.:
PTR NO.:
DATE ISSUED NO.:
PLACE ISSUED:
T.I.N.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BAGBO, SOUTHERN LEYTE

PROJECT NAME AND LOCATION:
GOVERNMENT AND SPECIAL SUPPORT PROGRAM - (GAS)
APPROPRIATE PROGRAM - (GAS) - (GAS) - (GAS)
FALLING TO SUPPORT LOCAL SERVICES
CONSTRUCTION OF RAILROADS IN SOUTHERN LEYTE
BAGBO, SOUTHERN LEYTE

SHEET CONTENTS

ELECTRICAL NOTES
RISER DIAGRAM
SCHEDULE OF LOADS

DRAFTED: KEAVY E. GONERA
APPROVED: MAR 26 2025
CHECKED: KEITH JASPER L. BUCADO
DATE: MAR 26 2025

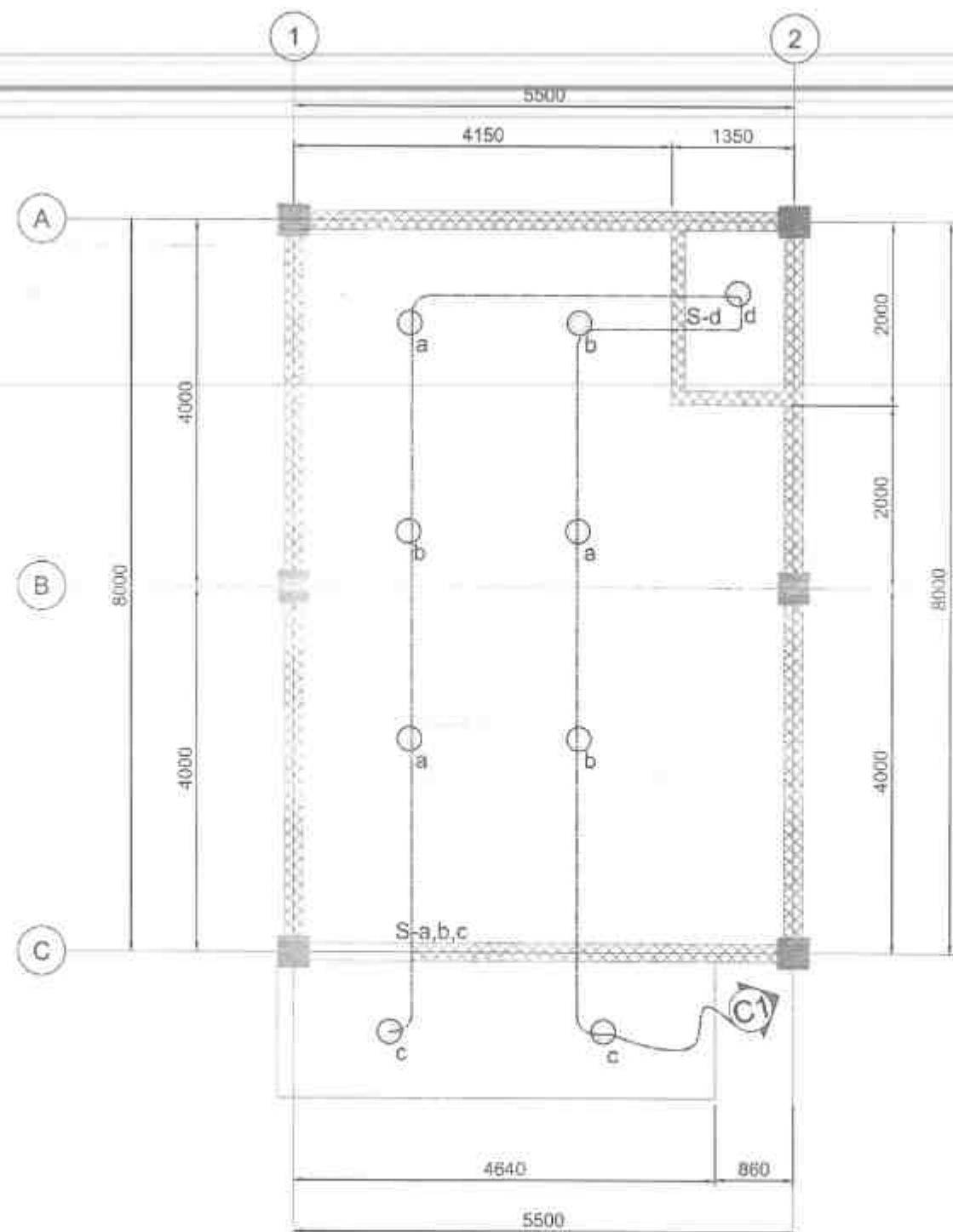
REVIEWED: MIKE NINO M. VILASENCIO
DATE: MAR 31 2025

SUBMITTED: RAINIERA LOU C. RUIZ
DATE: MAR 31 2025

RECOMMENDED: EDUARDO V. SANTOS
DATE: APR 04 2025

APPROVED: EDUARDO V. SANTOS
DATE: APR 04 2025

SHEET NO.: 24
SHEET NO.: 35



01
E-2

GROUND FLOOR
LIGHTING LAYOUT

SCALE 1:50 MTS

PROFESSIONAL ELECTRICAL ENGINEER
LICENSE NO. _____
PTR NO. _____
DATE ISSUED NO. _____
PLACE ISSUED _____
T.E.N.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VII
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
BOGADO, SOUTHERN LEYTE

PROJECT NAME AND LOCATION
CONSTRUCTION AND ELECTRICAL SUPPLY SYSTEMS - 4000
REPLACEMENT OF EXISTING AND NEW SUPPLY SYSTEMS
FACILITIES TO IMPROVE RURAL SERVICE
CONSTRUCTION OF 1000 MVA 11KV/22KV SUBSTATION
BOGADO, SOUTHERN LEYTE
BOGADO, SOUTHERN LEYTE

SHEET CONTENTS
GROUND FLOOR LIGHTING LAYOUT

DRAWN BY
KEAVY B. OBERA
DATE
MAR 26 2025
CHECKED BY
KEITH JASPER L. NOCAGO
DATE
MAR 26 2025

REVIEWED BY
MIKE NIÑO M. PILLARSENIO
DATE
MAR 31 2025

SUBMITTED BY
RAINIER LOPEZ RUIZ
DATE
MAR 31 2025

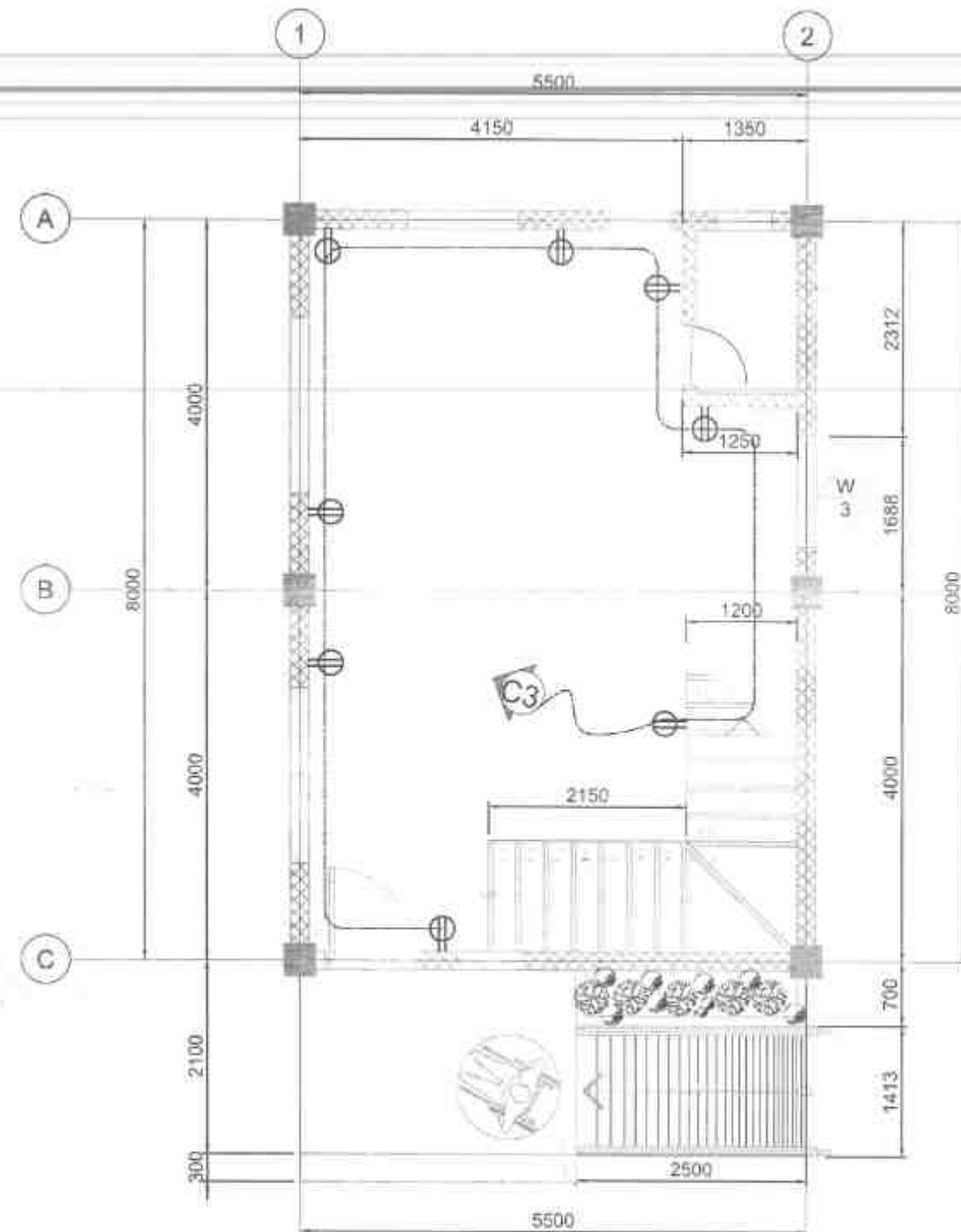
RECOMMENDED BY
EVELYN A. LAP
DATE
APR 04 2025

APPROVED BY
EDUARDO V. SANTOS
DATE
APR 04 2025

SHEET NO.
E
25
SHEET NO.
25



SET NO:	SHEET NO:



01
E-4
GROUND FLOOR
POWER LAYOUT
SCALE: 1:50 MTS.

PROFESSIONAL ELECTRICAL ENGINEER
LICENSE NO. _____
PTR NO. _____
DATE ISSUED NO. _____
PLACE ISSUED _____
T.I.N. _____



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION VI
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
80001, SOUTHERN LEYTE

PROJECT NAME AND LOCATION
EXPANSION AND SPECIAL IMPROVEMENTS, BASE
IMPROVEMENTS THROUGH GRP, BULACAN, BULACAN
PROJECTS TO SUPPORT LOCAL AMBASSY
CONSTRUCTION CORPORATION OF BULACAN, BULACAN
GRP, BULACAN, BULACAN, BULACAN
BULACAN, BULACAN, BULACAN, BULACAN

SHEET CONTENTS
GROUND FLOOR POWER LAYOUT

DRAWN BY
KEVIN A. SORERA
ARCHITECT
DATE
MAR 26 2025
CHECKED BY
KEVIN A. SORERA
ARCHITECT
DATE
MAR 26 2025

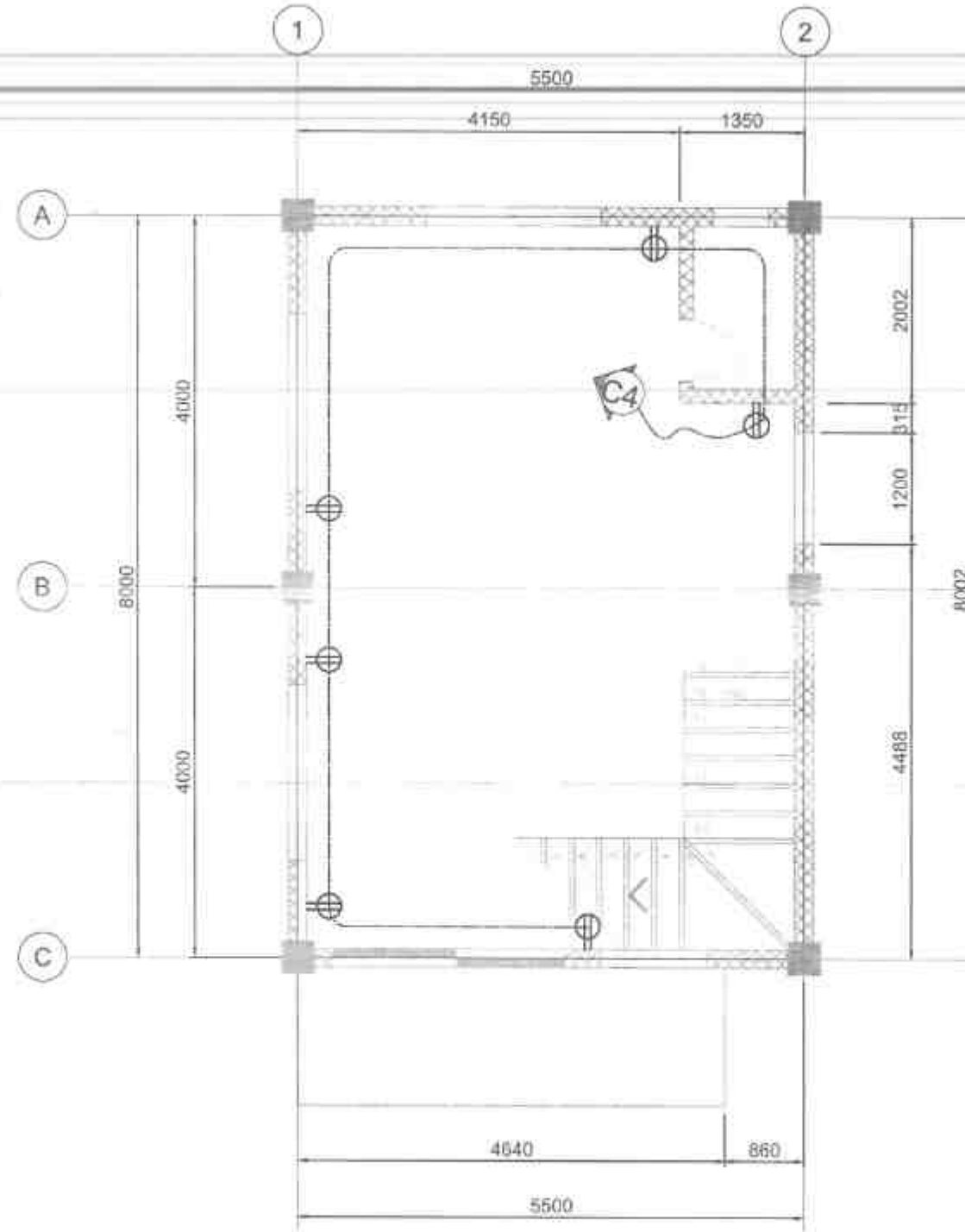
REVIEWED BY
MIKE NINO M. VILLASENNO
ENGINEER
DATE
MAR 31 2025

SUBMITTED BY
RAIMON C. RUIZ
CHIEF PLANNING DESIGN SECTION
DATE
MAR 31 2025

RECOMMENDED BY
EVAN L. L. L. L.
ASSISTANT DISTRICT ENGINEER
DATE
APR 04 2025

APPROVED BY
EDUARDO V. SANTOS
DISTRICT ENGINEER
DATE
APR 04 2025

SET NO. 4
SHEET NO. 27
E 33



01
E-5
SECOND FLOOR
POWER LAYOUT
SCALE 1:50 MTS.

PROFESSIONAL ELECTRICAL ENGINEER
LICENSE NO.:
PTR NO.:
DATE ISSUED NO.:
PLACE ISSUED:
T.N.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
(REGION VII)
**SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE**
SARANG SOUTHERN LEYTE

PROJECT NAME AND LOCATION

LEARNERSHIP AND DESIGN SUPPORT PROGRAM - ASAC
INFRASTRUCTURE PROGRAM (LIP) - SOUTHERN LEYTE
AVAILABLE TO SUPPORT DISTRICT PROJECTS
CONSTRUCTION GROUP, PHASE OF ASAC LIP OF BUILDING
BASIC SERVICES BUILDING SOUTHERN LEYTE
BASIC SERVICES BUILDING SOUTHERN LEYTE

SHEET CONTENTS

SECOND FLOOR POWER LAYOUT

DRAWN BY

KEVIN A. CASPERA

DATE: MAR 26 2025

CHECKED BY

KEITH CASPER L. BUCAGAO

DATE: MAR 26 2025

REVIEWED BY

MIKE NIRO M. VILLASANCIO

DATE: MAR 31 2025

SUBMITTED BY

DANIEL C. RUIZ

DATE: MAR 31 2025

RECOMMENDED BY

EVERALDO M. JAVIER

DATE: APR 04 2025

APPROVED BY

EDUARDO V. SANTOS

DATE: APR 04 2025

SET NO.

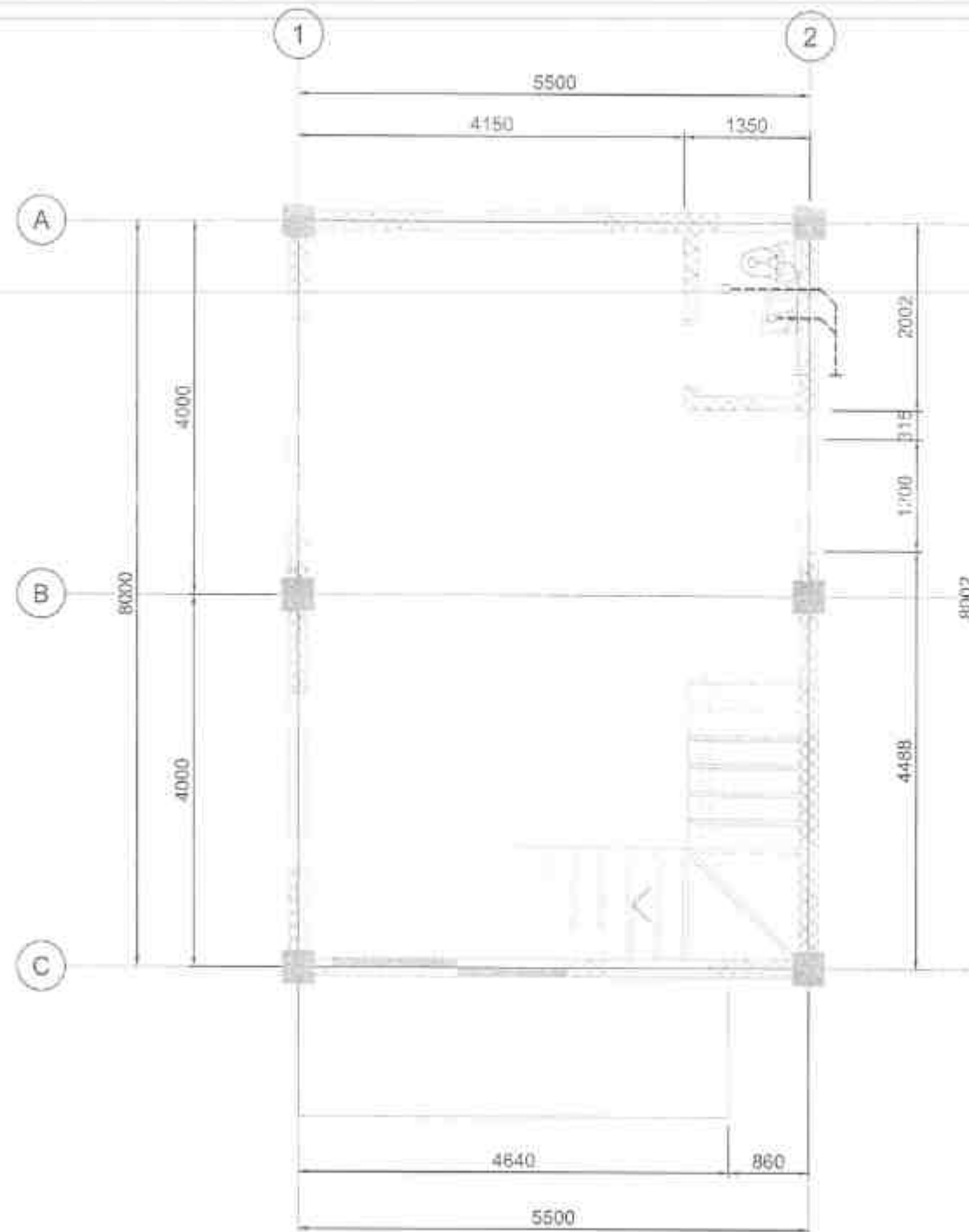
E

5

SHEET NO.

26

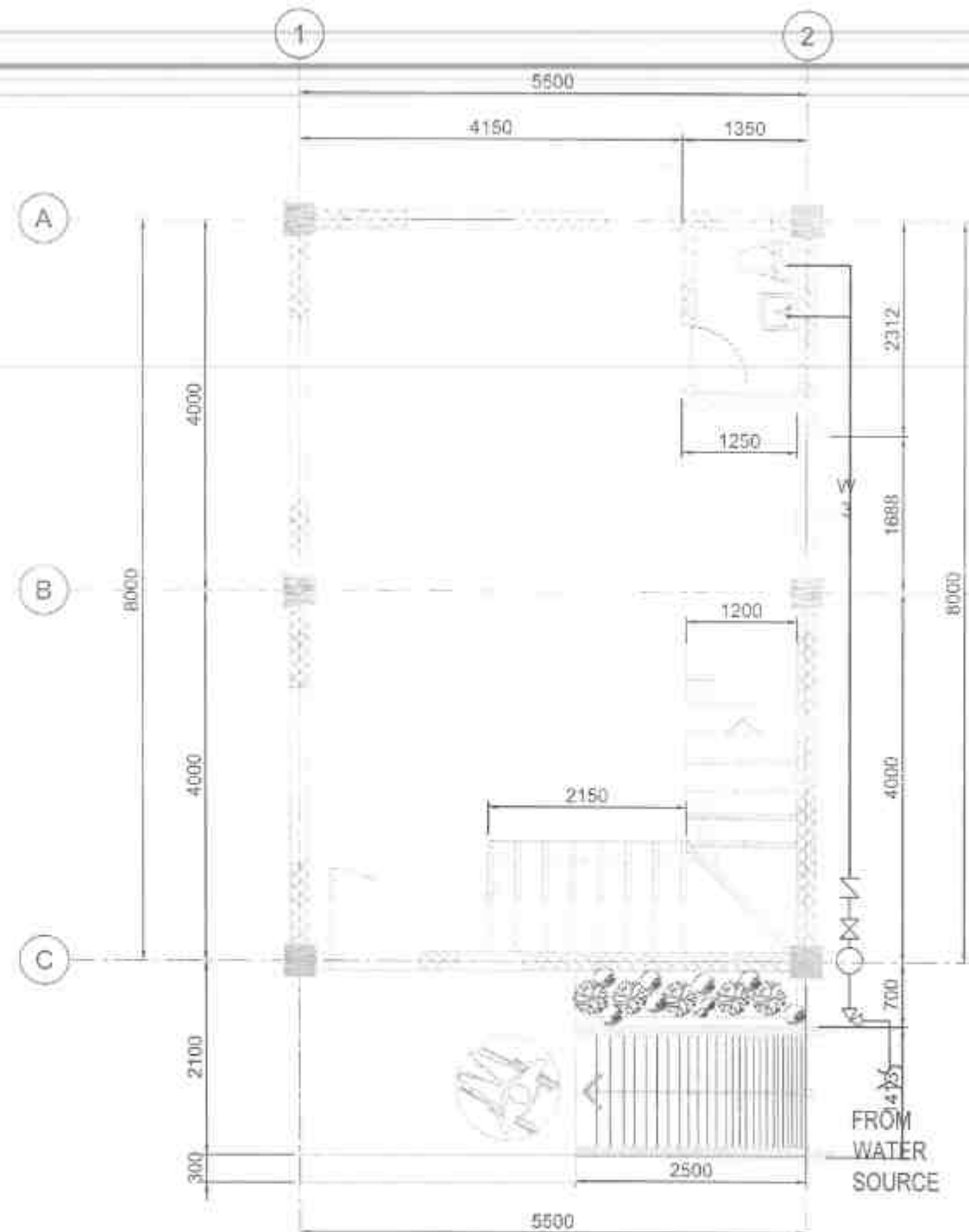
35



01 SECOND FLOOR
P-2 SANITARY LAYOUT
SCALE 1:50 MTS.

MASTER PLUMBER	
LICENCE NO.	
PTR NO.	
DATE ISSUED NO.	
PLACE ISSUED	
T.I.N.	

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE SECOND SOUTHERN LEYTE	PROJECT NAME AND LOCATION CIVIL ENGINEERING AND SPECIAL SUPPORT PROGRAM, AREA DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, REGION VII ENGINEERING OFFICE, SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE, SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE, SOUTHERN LEYTE 2ND DISTRICT	SHEET CONTENTS SECOND FLOOR SANITARY LAYOUT	DRAWN BY ALEXANDER S. VILLARINO	REVIEWED BY MARK NICO M. VILLARINO	SUBMITTED BY MARK NICO M. VILLARINO	RECOMMENDED BY MARK NICO M. VILLARINO	APPROVED BY EDUARDO V. LAROS	SET NO. P	SHEET NO. 20
			DATE MAR 25 2025	DATE MAR 31 2025	DATE MAR 31 2025	DATE APR 04 2025	DATE APR 04 2025	2	33
			DATE MAR 25 2025	DATE MAR 31 2025	DATE MAR 31 2025	DATE APR 04 2025	DATE APR 04 2025		



01
P-3
GROUND FLOOR
WATERLINE LAYOUT
SCALE: 1:80 MTS.

MASTER PLUMBER
LICENSE NO.:
PER NO.:
DATE ISSUED NO.:
PLACE ISSUED:
T.I.N.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE
SOUTHERN LEYTE 2ND DISTRICT
ENGINEERING OFFICE
DANAO, SOUTHERN LEYTE

PROJECT NAME AND LOCATION

CONSTRUCTION AND DESIGN: DISTRICT ENGINEER, DANAO
SUPERVISOR: DISTRICT ENGINEER, DANAO
DESIGNER: DISTRICT ENGINEER, DANAO
CHECKER: DISTRICT ENGINEER, DANAO
DATE: DISTRICT ENGINEER, DANAO

BY/REV/DATE

GROUND FLOOR WATERLINE LAYOUT

DRAFTED

ALEXANDER D. LACUNA
ENGINEER

DATE

PREPARED
JOHNNIE C. LACUNA
ENGINEER

DATE
MAR 26 2025

REVIEWED

MIKE RHO MANILLASERDIO
ENGINEER

DATE

MAR 31 2025

SUBMITTED

RAINIER C. RUO
ENGINEER

DATE

MAR 31 2025

RECOMMENDED

EDUARDO V. BANCOS
DISTRICT ENGINEER

DATE

APR 04 2025

APPROVED

EDUARDO V. BANCOS
DISTRICT ENGINEER

DATE

APR 04 2025

SET NO.

P

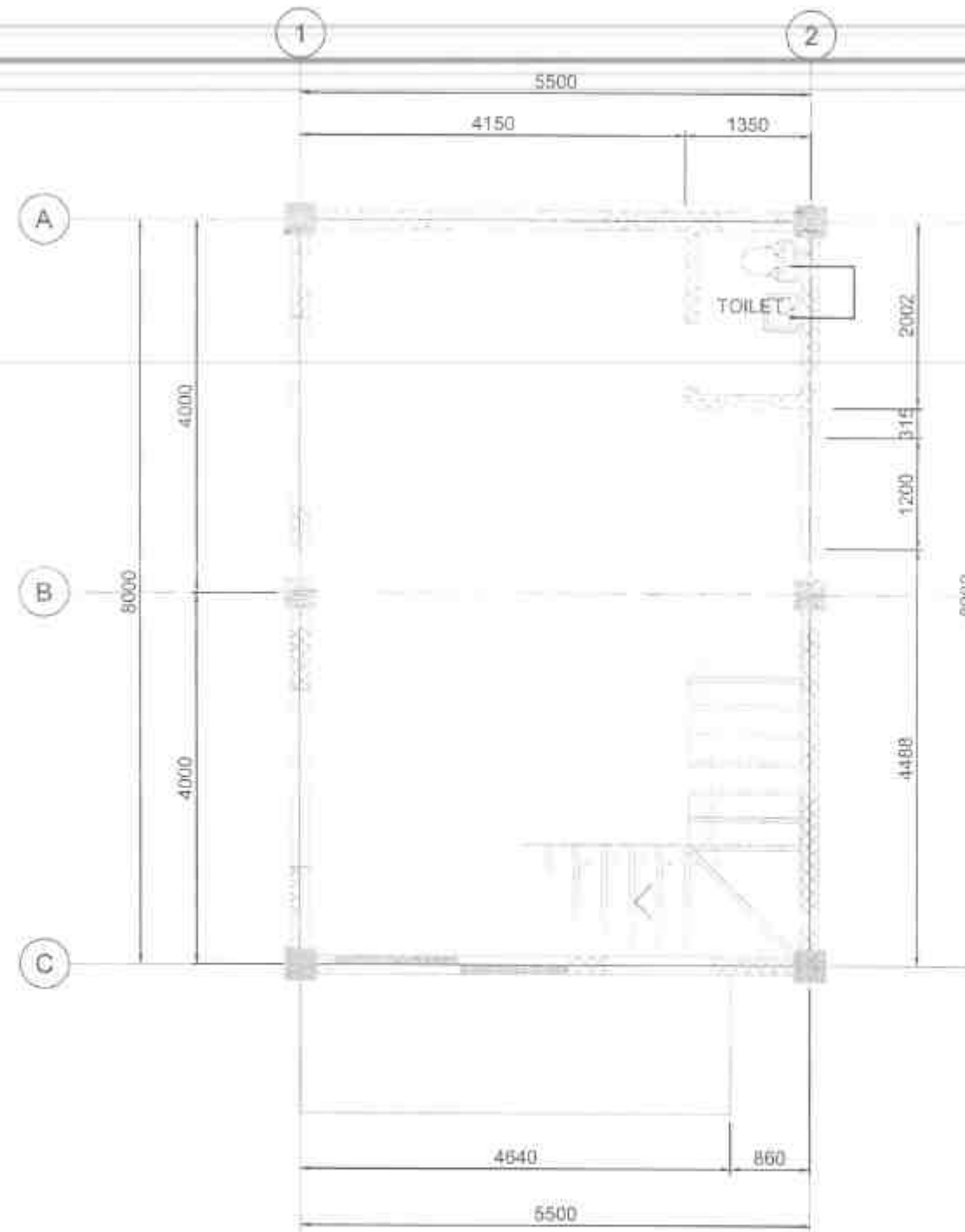
3

7

SHEET NO.

31

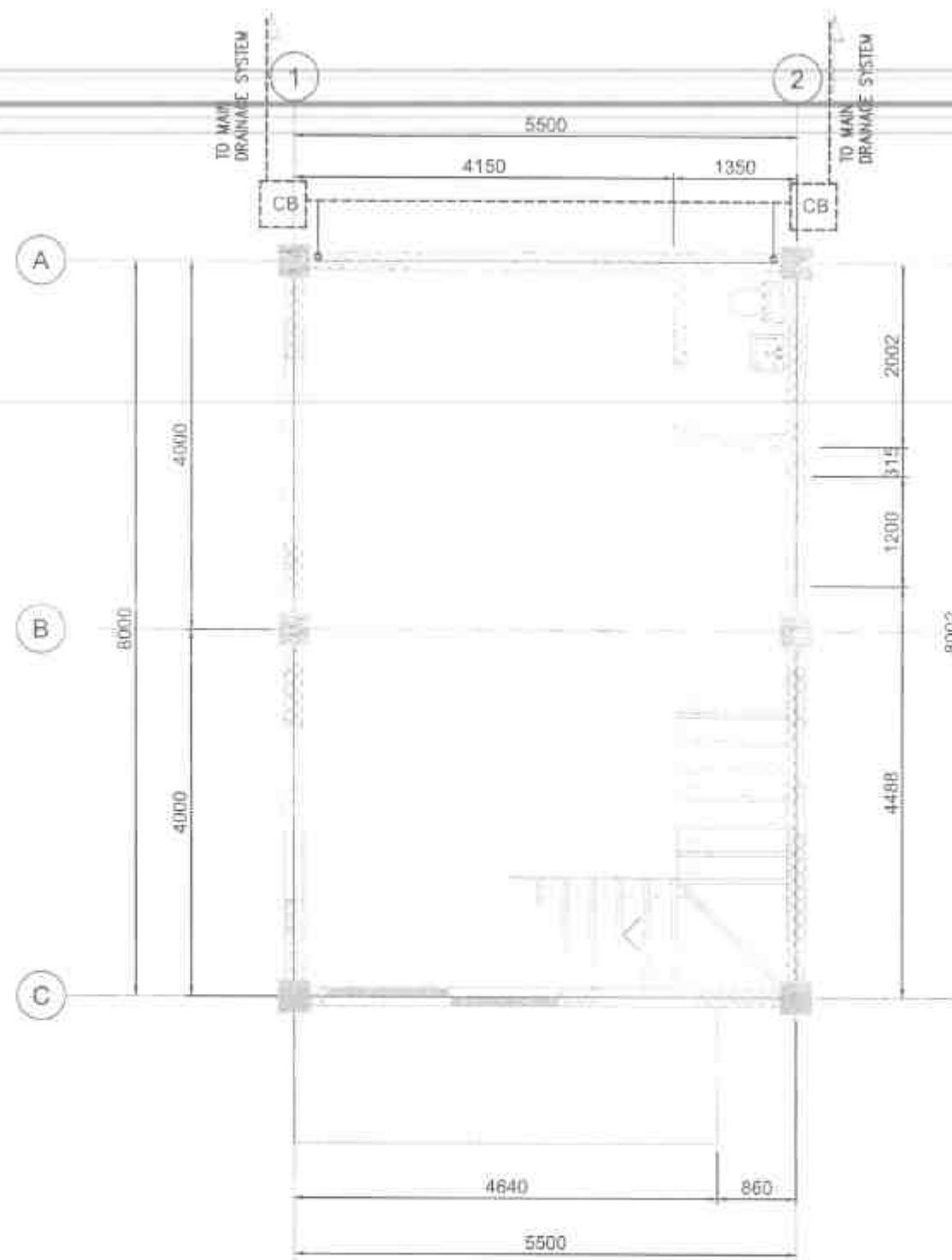
38



01
P-4
SECOND FLOOR
WATERLINE LAYOUT
SCALE 1:50 MTS

MASTER PLUMBER	
LICENSE NO.	
PTR NO.	
DATE ISSUED NO.	
PLACE ISSUED	
T.N.	

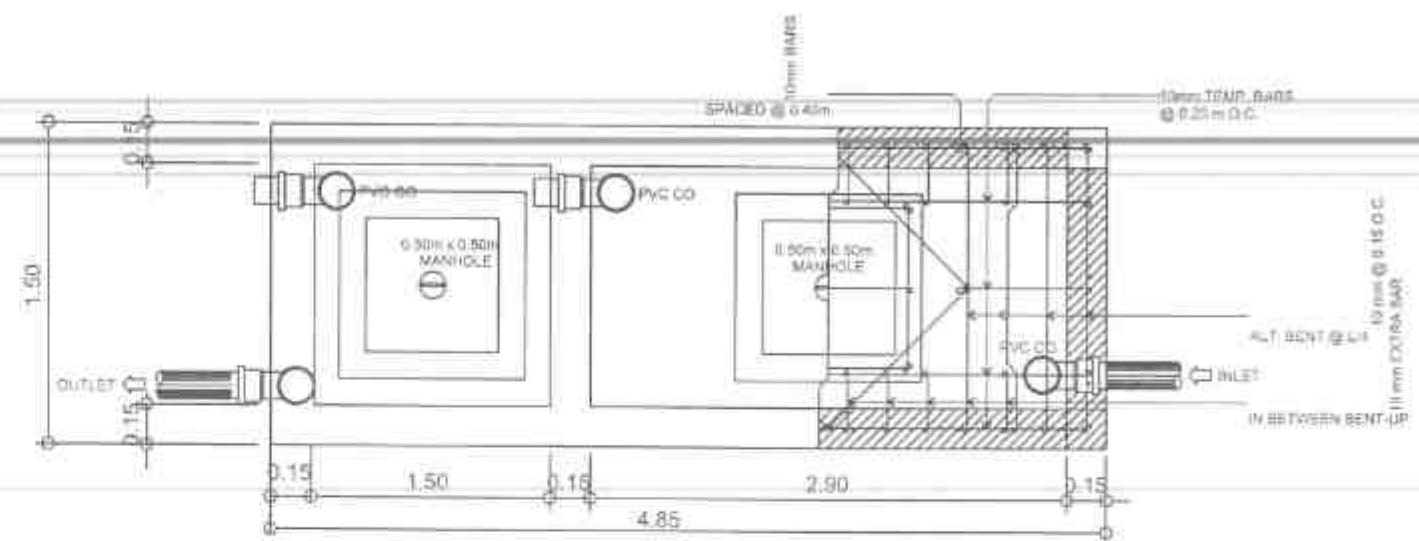
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE ACORDO, SOUTHERN LEYTE	PROJECT NAME AND LOCATION CONTRACT NO. AND SPECIAL SPECIAL PURPOSES (if any) APPROVED FOR PROJECT NO. 100-1000000-000000 EXEMPTED TO SUPPORT AGRI. SERVICES CONSTRUCTION OF 100-1000000-000000 AND PROJECT NO. 100-1000000-000000 AND PROJECT NO. 100-1000000-000000	SHEET CONTENTS SECOND FLOOR WATERLINE LAYOUT	DESIGNED BY ALFONSO M. VILLARINO DATE MAR 31 2025	REVIEWED BY MIKE RINO M. VILLARINO DATE MAR 31 2025	SUBMITTED BY RAIMONDO C. RUZ DATE MAR 31 2025	RECOMMENDED BY EDUARDO V. SANTOS DATE APR 04 2025	APPROVED BY EDUARDO V. SANTOS DATE APR 04 2025	SET NO. P 4	SHEET NO. 22 35
			DATE MAR 31 2025	DATE MAR 31 2025	DATE MAR 31 2025	DATE APR 04 2025	DATE APR 04 2025		



01 STORMWATER DRAINAGE LAYOUT
P-5 SCALE 1:50 MTS.

MASTER PLUMBER
LICENSE NO. _____
PTR NO. _____
DATE ISSUED NO. _____
PLACE ISSUED _____
T.E.N. _____

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION VII SOUTHERN LEYTE 2ND DISTRICT ENGINEERING OFFICE MOBILE: 9830888447	PROJECT NAME AND LOCATION CONSTRUCTION OF THE SECOND FLOOR WATERLINE LAYOUT CONSTRUCTION OF THE SECOND FLOOR WATERLINE LAYOUT CONSTRUCTION OF THE SECOND FLOOR WATERLINE LAYOUT CONSTRUCTION OF THE SECOND FLOOR WATERLINE LAYOUT CONSTRUCTION OF THE SECOND FLOOR WATERLINE LAYOUT	SHEET CONTENTS SECOND FLOOR WATERLINE LAYOUT	DRAWN BY ALFONSO C. VILLASANO DATE MAR 26 2025 PROVEN BY JENNIFER L. VILLASANO DATE MAR 26 2025	REVIEWED BY MARK NINO M. VILLASANO DATE MAR 31 2025	SUBMITTED BY RAINIER VILLASANO DATE MAR 31 2025	RECOMMENDED BY EVELYN D. YAP DATE APR 04 2025	APPROVED BY EDUARDO V. SANTOS DATE APR 06 2025	SHEET NO. 33 SHEET NO. 33
--	--	---	--	--	--	--	---	--

[illegible]

01 ISOMETRIC
P-6 SCALE: 1/8" = 1'-0"

02 SEPTIC TANK DETAILS
P-6 SCALE 1/8" = 1'-0"

MASTER PLUMBER

LICENSE NO. _____

PTR NO. _____

DATE ISSUED NO. _____

PLACE ISSUED _____

TIN _____

SPECIFICATION :

1. ALL HORIZONTAL PIPINGS SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT UNIFORM GRADE NOT LESS THAN 2% AND SHALL BE SUPPORTED OR ANCHORED AT AN INTERVAL NOT TO EXCEED 10 FEET.

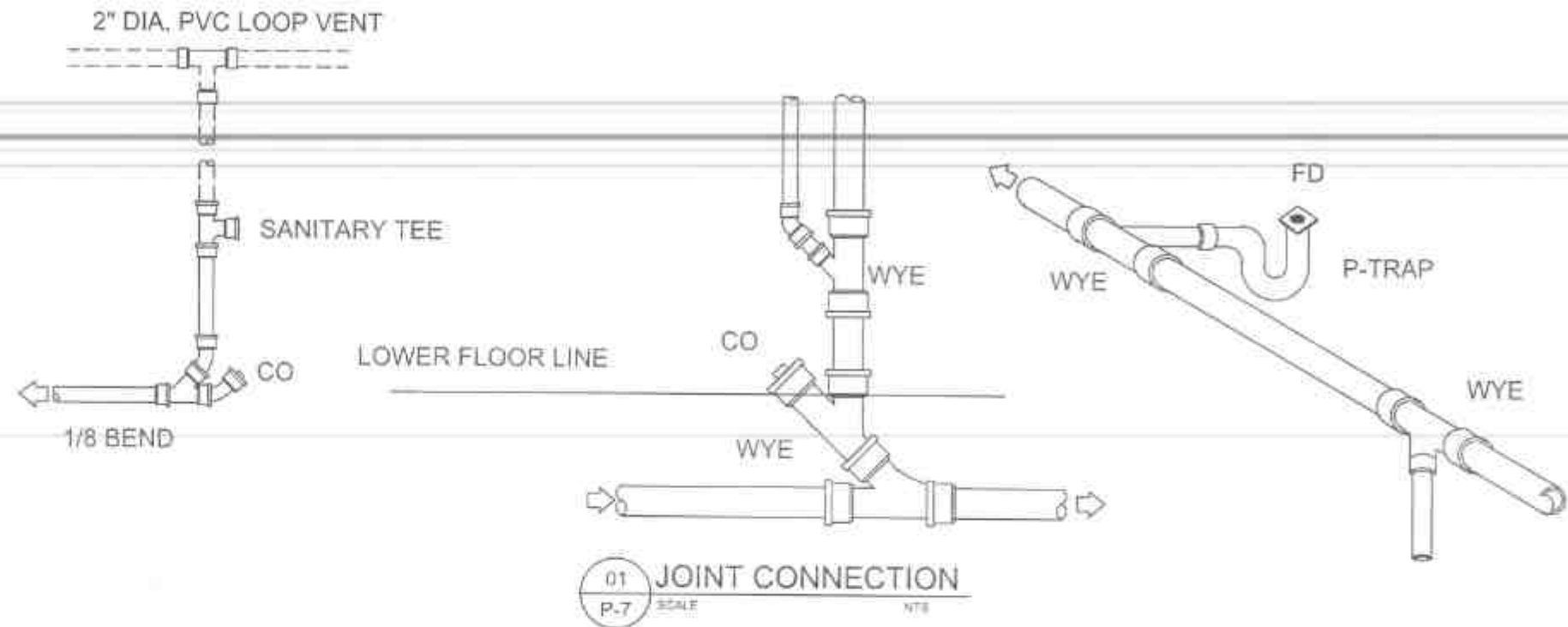
2. ALL PIPES PASSING THRU OR UNDER WALLS AND DRIVEWAYS SHALL BE PROPERLY PROTECTED AGAINST BREAKAGE.

3. ALL CAULKED JOINT SHALL BE FIRMLY PACKED WITH OAKUM OR OIL TREATED HEMP AND SHALL BE PROPERLY SECURED ONLY WITH PURE LEAD NOT LESS THAT 1" DEEP WELL CAULKED.

4. WORKMANSHIP SHALL BE OF SUCH CHARACTER AS TO FULLY SECURE

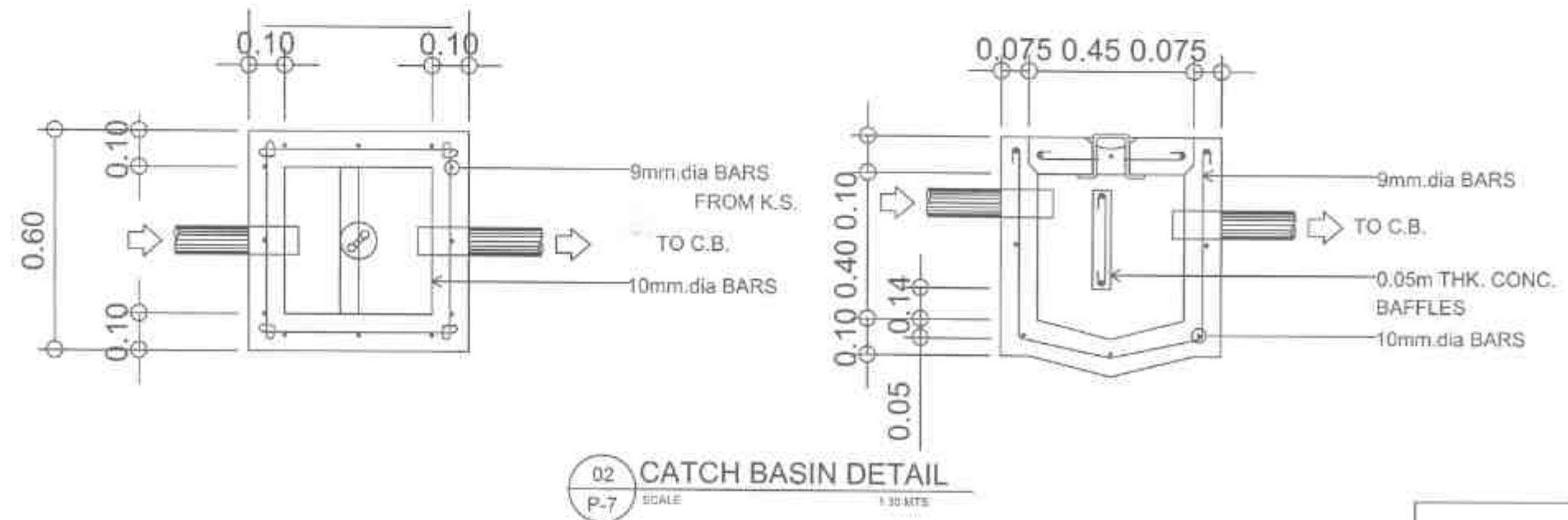
CERTIFICATION :

THIS IS TO CERTIFY THAT THERE IS NO ARTESIAN WELL WITHIN A RADIUS OF 25.00 METERS FROM THE SEPTIC VAULT.



LEGEND :

LAV.	LAVATORY
L.T.	LAUNDRY TUB
B.T.	BATH TUB
K.S.	KITCHEN SINK
G.V.	GATE VALVE
C.V.	CHECK VALVE
D.S.	DOWN SPOUT
C.O.	CLEAN OUT
C.B.	CATCH BASIN
S.V.	SEPTIC VAULT
B.P.	BOSTER PUMP
---	WATER LINE
---	WASTE/SOIL LINE
---	LOOP VENT LINE
----	PVC PIPE LINE
V.T.R.	VENT THRU ROOF
VTW	VENT THRU WALL
S.H.	SHOWER HEAD
HB	HOSE BIB
FAU	FAUCET
F.D.	FLOOR DRAIN
BTD	BATH TUB DRAIN
H.B.	HOSE BIBB



MASTER PLUMBER
 LICENSE NO.:
 PTR NO.:
 DATE ISSUED NO.:
 PLACE ISSUED:
 T.I.N.:



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 REGION VII
 SOUTHERN LEYTE 2ND DISTRICT
 ENGINEERING OFFICE
 30000 SOUTHERN LEYTE

PROJECT NAME AND LOCATION
 SUBPROJECTS AND SPECIAL SUPPORT PROGRAMS - 6420
 INFRASTRUCTURE PROGRAM - 6420
 FACILITIES TO SUPPORT SOCIAL SERVICES
 COMMUNICATIONS PROGRAM - 6420
 6420 PROJECTS - 6420
 6420 PROJECTS - 6420

SHEET CONTENTS
 SPECIFICATIONS
 LEGEND
 JOINT CONNECTION
 CATCH BASIN DETAILS

DRAWN BY
 ALEJANDRO
 DATE
 PREPARED BY
 JUAN MIGUEL
 DATE
 2025

REVIEWED BY
 MINE NIRO M. VILLASENIO
 DATE
 2025

SUBMITTED BY
 DANIELA C. RUZ
 DATE
 2025

RECOMMENDED BY
 EVELYN D. F.
 DATE
 2025

APPROVED BY
 EDUARDO V. SANTOS
 DATE
 2025

SHEET NO.
 35
 SHEET NO.
 35