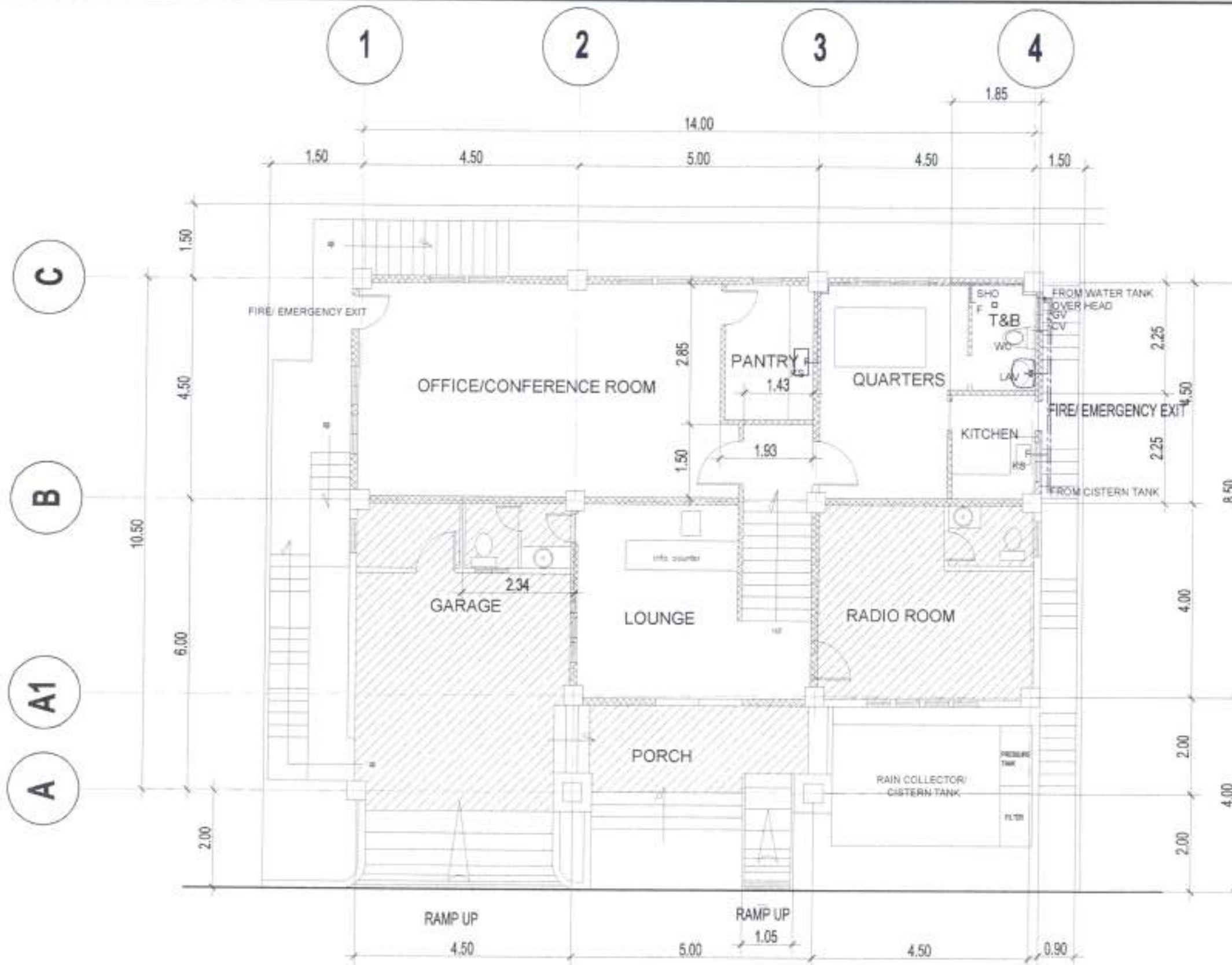


1 ROOF DECK PLUMBING PLAN
P-3 SCALE 1:20 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 3 DANANG DISTRICT ENGINEERING OFFICE BAYAN KANAYAN, BAYAN, DAVAO</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM - Local Infrastructure Program Buildings and other Structures - Multi-Purpose Facilities CONSTRUCTION OF PASAGA BUILDING</p>	<p>PROJECT CONTENTS ROOF DECK PLUMBING PLAN</p>	<p>DESIGNED BY  PREPARED BY </p>	<p>REVIEWED BY  MARK Z. [Signature] DATE</p>	<p>SUBMITTED BY  DATE</p>	<p>RECOMMENDED BY  DATE</p>	<p>APPROVED BY  DATE</p>	<p>HEET NO. 34 SHEET NO. 41 P-3</p>
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1 UPPER LEVEL WATERLINE PLAN
P-5 SCALE 1:60 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 1
BATANES DISTRICT ENGINEERING OFFICE
BAYAN, BATAAN

PROJECT NAME AND LOCATION:
LOCAL PROGRAM: Local Infrastructure Projects
Buildings and other Structures: Multi-Purpose Facilities
CONSTRUCTION OF PAGASA BUILDING

SHEET CONTENTS:
UPPER LEVEL WATERLINE PLAN

DESIGNED BY:
PROF. MARK A. CHORTE
CHECKED BY:
RODRICK V. HORNEO

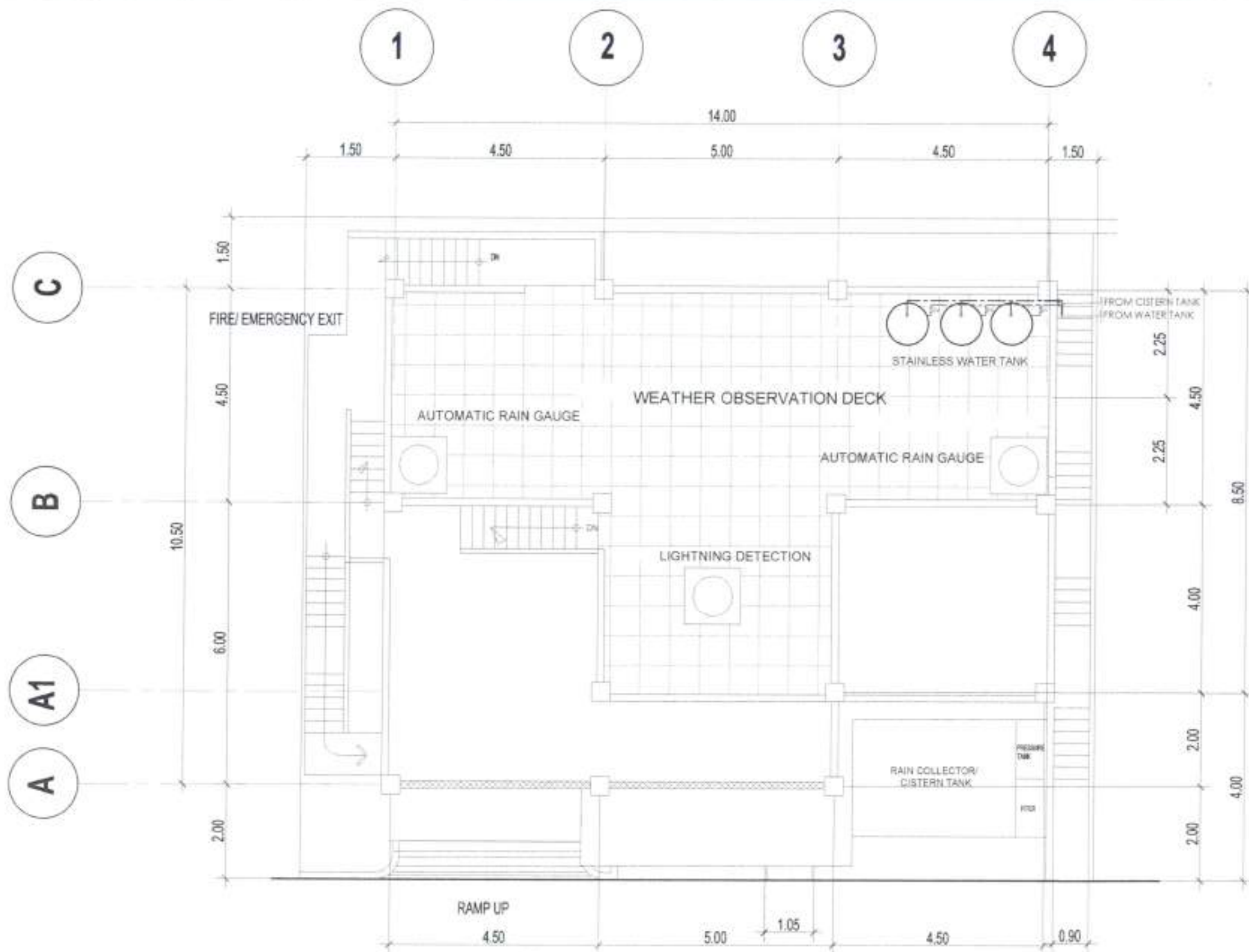
REVIEWED BY:
MARK A. CHORTE

APPROVED BY:
RODRICK V. HORNEO

RECOMMENDED BY:
RODRICK V. HORNEO

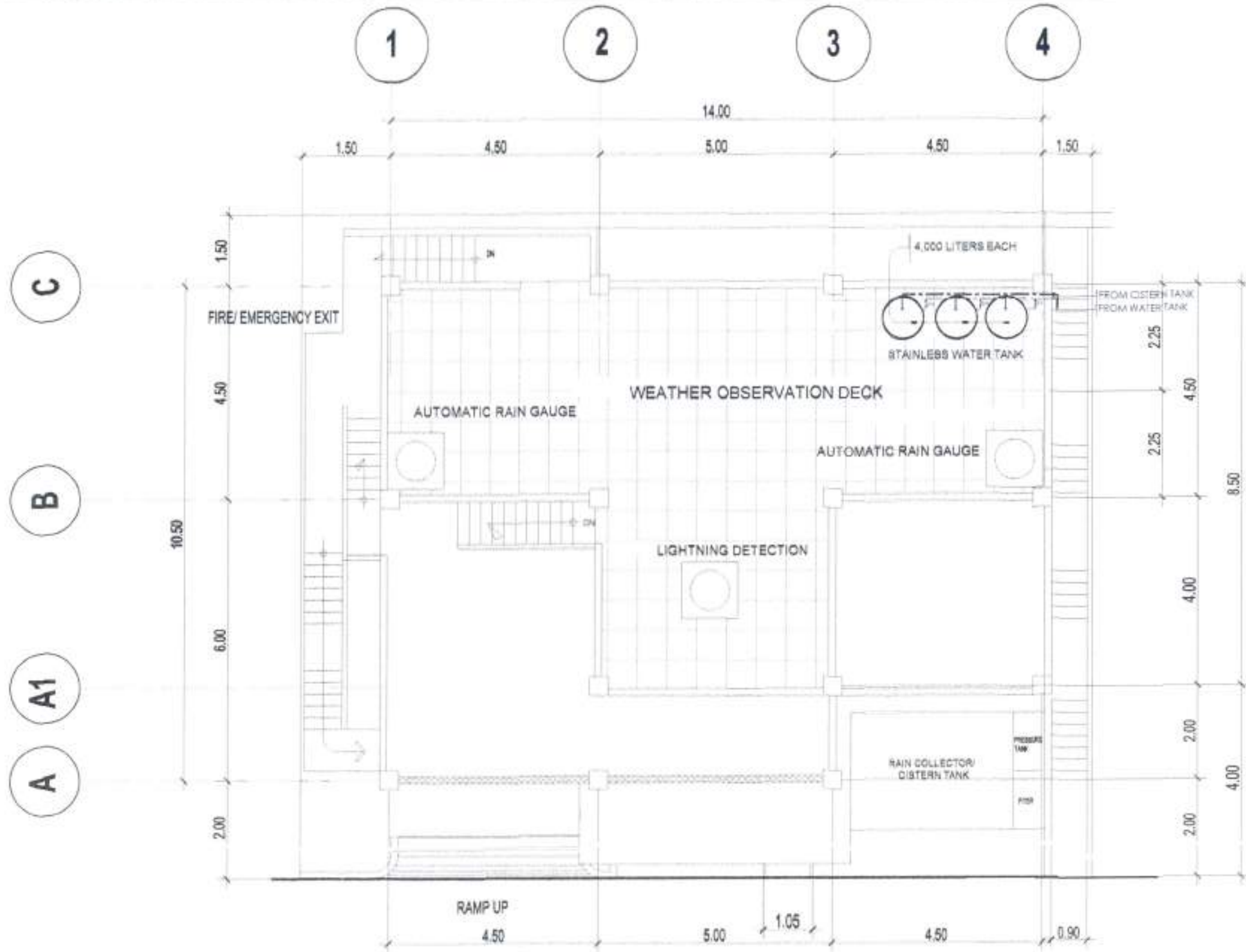
APPROVED BY:
RODRICK V. HORNEO

DATE:
SHEET NO.:
P-5
36 of 41

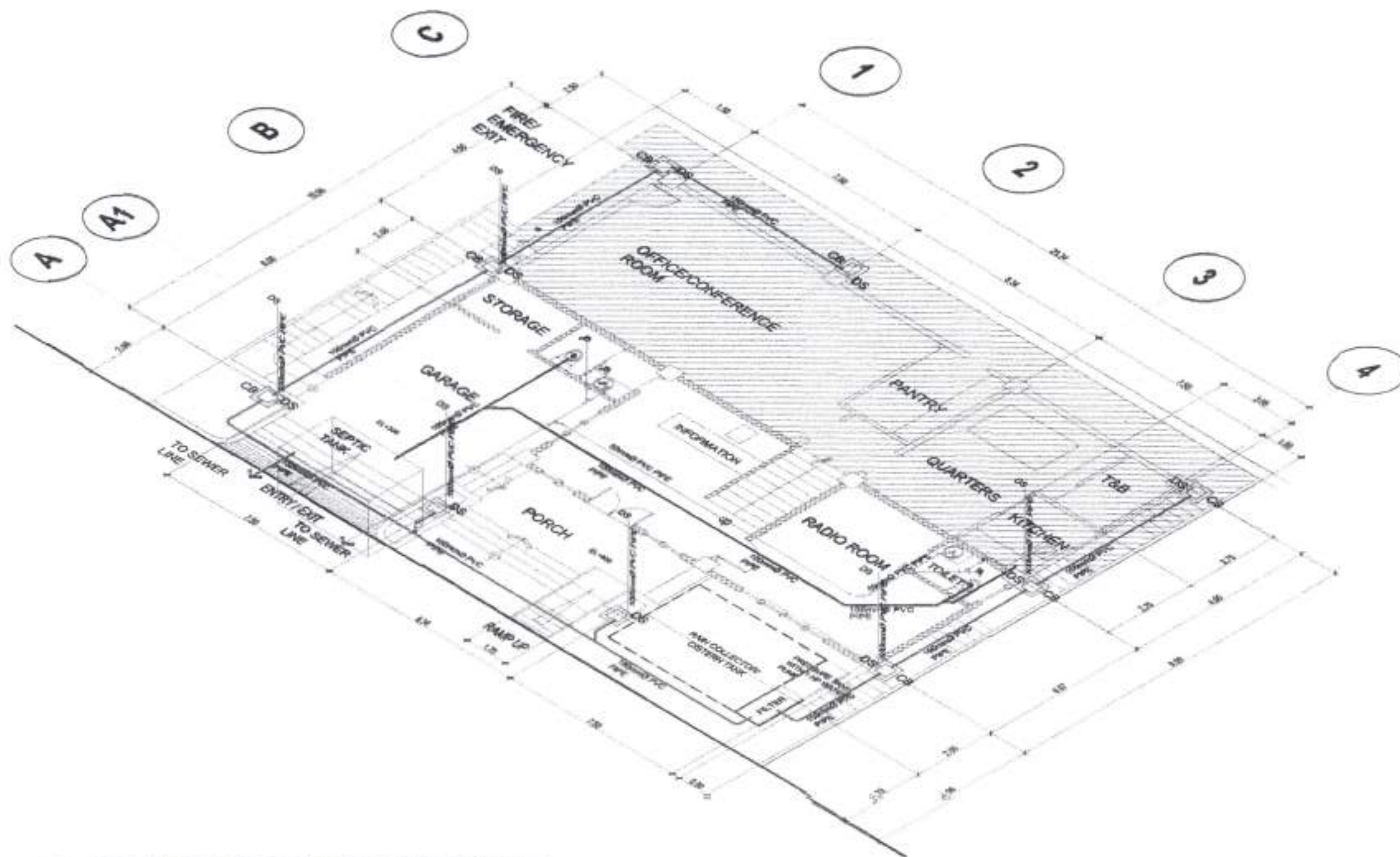


1 ROOF DECK WATERLINE PLAN
P-6 SCALE 1:60 MTS

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 3 SARANGANI DISTRICT ENGINEERING OFFICE BRGY. KAYVALLASAM, BAKID, SARANGANI</p>	<p>PROJECT NAME AND LOCATION: LOCAL PROGRAM, Local Infrastructure Program, Buildings and other Structures, Multi-Purpose / Facilities, CONSTRUCTION OF PAGADA BUILDING</p>	<p>SHEET CONTENTS: ROOF DECK WATERLINE PLAN</p>	<p>DESIGNED BY:  PREPARED BY: </p>	<p>REVIEWED AS TO DESIGN CONCEPT:  MARK ANTONIO CHORTY</p>	<p>QUANTITIES:  PRINCE ALBERT S. SILE</p>	<p>RECOMMENDED BY:  RODRICK V. HORNEO</p>	<p>APPROVED BY:  DORCADO C. LORADO</p>	<p>SET NO. P-6 SHEET NO. 37 41</p>
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1 ROOF DECK WATERLINE PLAN
P-6 SCALE 1:60 MTS.



1 GROUND FLOOR PLUMBING ISOMETRIC PLAN
P-7 SCALE 1:20 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 7
SARANGANI DISTRICT ENGINEERING OFFICE
8001 APT. VILLAMAR, MAHO, SARANGANI

PROJECT NAME AND LOCATION
LOCAL PROGRAM - LIRIP Infrastructure Program
Buildings and other Structures, Multi-Purpose / Facilities
CONSTRUCTION OF RADAR BUILDING

SHEET CONTENTS
GROUND FLOOR PLUMBING ISOMETRIC
PLAN

DESIGNED
CHECKED
APPROVED

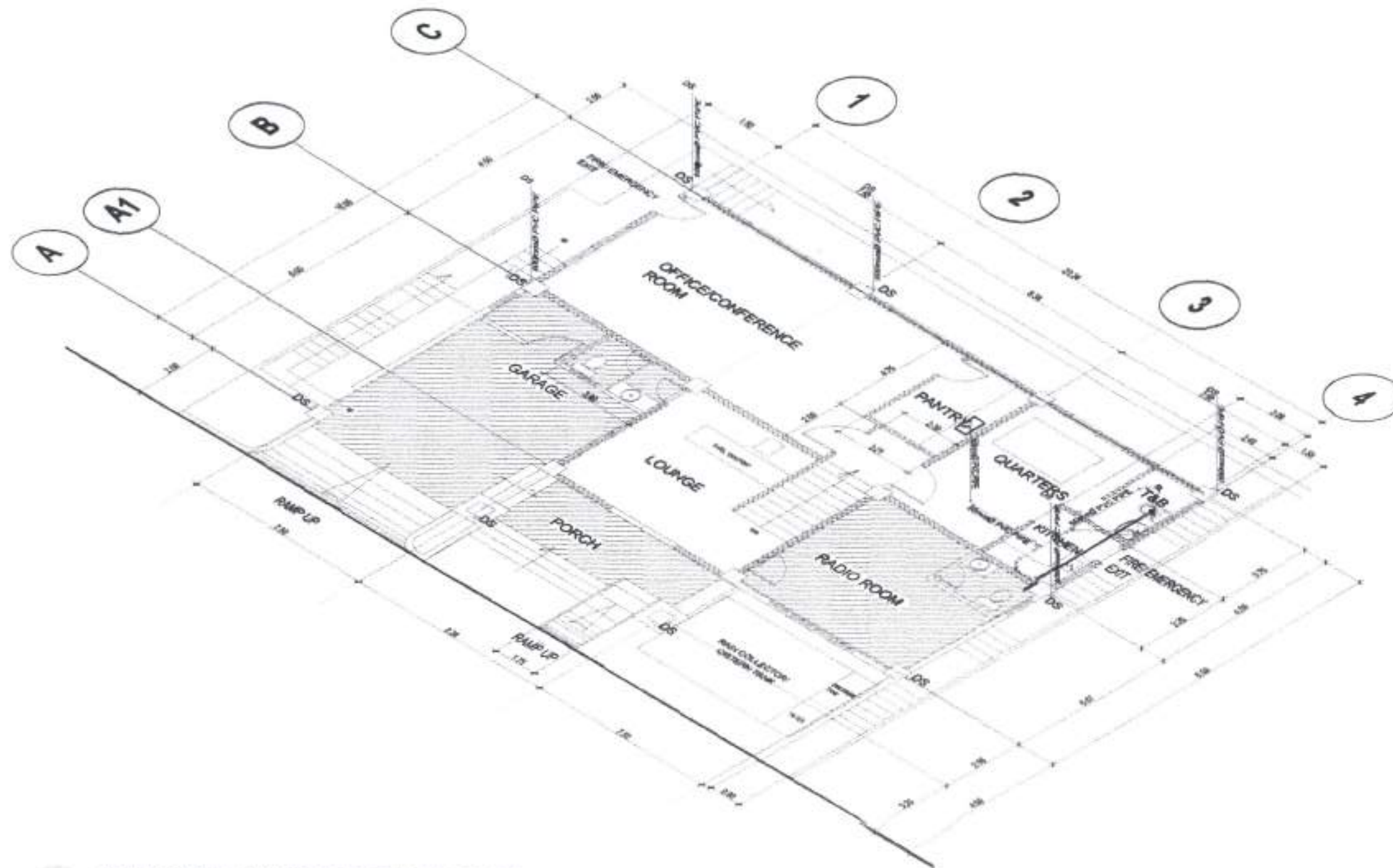
REVIEWED TO DESIGN CONCEPT
SEAL: RICHARD L. HORTA

SUBMITTED
DATE: 10/10/2023

RECOMMENDED
BY: R. Harrodes
DATE: 10/10/2023

APPROVED
DATE: 10/10/2023

SET NO.
SHEET NO.
P-7
38 / 41



1
P-B
SCALE
1:20 MTS.
UPPER LEVEL PLUMBING ISOMETRIC PLAN



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 1
BATAVIA DISTRICT ENGINEERING OFFICE
BATAVIA DISTRICT ENGINEERING OFFICE

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
Building and other Structures, Multi-Purpose Facility
CONSTRUCTION OF BATAVIA BUILDING
BATAVIA DISTRICT

SHEET CONTENTS
UPPER LEVEL PLUMBING ISOMETRIC PLAN

DESIGNED BY
CHECKED BY
APPROVED BY
DATE

REVIEWED BY
DATE

SUBMITTER
DATE

RECOMMENDED
DATE

APPROVED
DATE

SHEET NO.
39
41
P-B

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORKS HEREIN SHALL BE EXECUTED ACCORDING TO THE REQUIREMENTS OF THE PHILIPPINE NATIONAL PLUMBING CODE.

2. IT IS NOT INTENDED THAT DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND OTHER APPURTENANCES. FURNISH AND INSTALL IF NECESSARY. ALL ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT OR INDICATED IN THE DRAWINGS TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE PLUMBING TRADE AND TO THE ENTIRE SATISFACTION OF THE SANITARY ENGINEER IN CHARGE.

3. PERFORM ALL LABOR IN A FIRST CLASS AND NEAT WORKMANSHIP BY SPECIALISTS SKILLED IN THEIR TRADES. SUCH SPECIALISTS AND THEIR WORK SHALL BE TO THE ENTIRE SATISFACTION OF THE SANITARY ENGINEER IN CHARGE.

BASIC MATERIALS

1. PROVIDE MATERIALS THAT ARE NEW AND IN CONFORMITY WITH THE MATERIAL SPECIFICATIONS AS REQUIRED BY THE ARCHITECT/SANITARY ENGINEER IN CHARGE.

2. FOR OTHER REQUIRED MISCELLANEOUS MATERIALS NOT SPECIFICALLY MENTIONED, PROVIDE THE BEST OF ITS KIND.

3. SUBMIT SAMPLES OF MATERIALS FOR APPROVAL AS REQUIRED BY THE ARCHITECT/SANITARY ENGINEER IN CHARGE.

4. CONFORM ALL APPLICABLE PIPES AND MATERIALS FOR VARIOUS SERVICES TO THE STANDARDS OUTLINED BELOW.

PLUMBING FIXTURES

1. INSTALL ALL PLUMBING FIXTURES FREE AND OPEN IN A MANNER TO ACCESS FOR CLEANING. FURNISH WITH BRACKETS, CLEATS, PLATES AND ANCHORS REQUIRED TO SUPPORT THE FIXTURE RIGIDLY IN PLACE.

2. BEER AWAY AT A SUFFICIENT DISTANCE, BUT NOT LESS THAN 10 INCH (254 mm). ALL SERVICE PIPES, VALVES AND FITTINGS FROM SURFACES AND LOCATIONS WHICH MAY REQUIRE FINISH COAT OR COVERING.

3. EXTEND THE PIPING TO ALL FIXTURES, OUTLETS AND EQUIPMENT FROM REQUIRED GATE VALVES INSTALLED IN EACH BRANCH NEAR RISERS.

SHUT-OFF

1. PROVIDE ENTIRE SYSTEM WITH VALVES SO LOCATED THAT THE SYSTEM OR PORTIONS OF IT CAN BE OPERATED, REPAIRED AND REPLACED AS WELL AS AFFORDING COMPLETE CONTROL OF THE WATER SUPPLY TO EACH GROUP OF FIXTURES WHEN REQUIRED. PROVIDE ALSO PRESSURE REDUCING VALVES.

SOIL, WASTE & VENT PIPES

1. INSTALL ALL PLUMBING WORKS IN CONFORMITY WITH ALL PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE PLUMBING CODE AND APPLICABLE REQUIREMENTS OF EXISTING LOCAL CODES.

2. EXCAVATE TO REQUIRED DEPTHS AND GRADES ALL EXCAVATIONS REQUIRED FOR THE INSTALLATION OF PLUMBING AND DRAINAGE SYSTEM. WHEN ROCK IS ENCOUNTERED, EXTEND EXCAVATION TO A DEPTH OF 150mm BELOW THE PIPE BOTTOM.

3. LAY WATER SUPPLY PIPES AND SEWER IN SEPARATE TRENCHES.

OTHERS

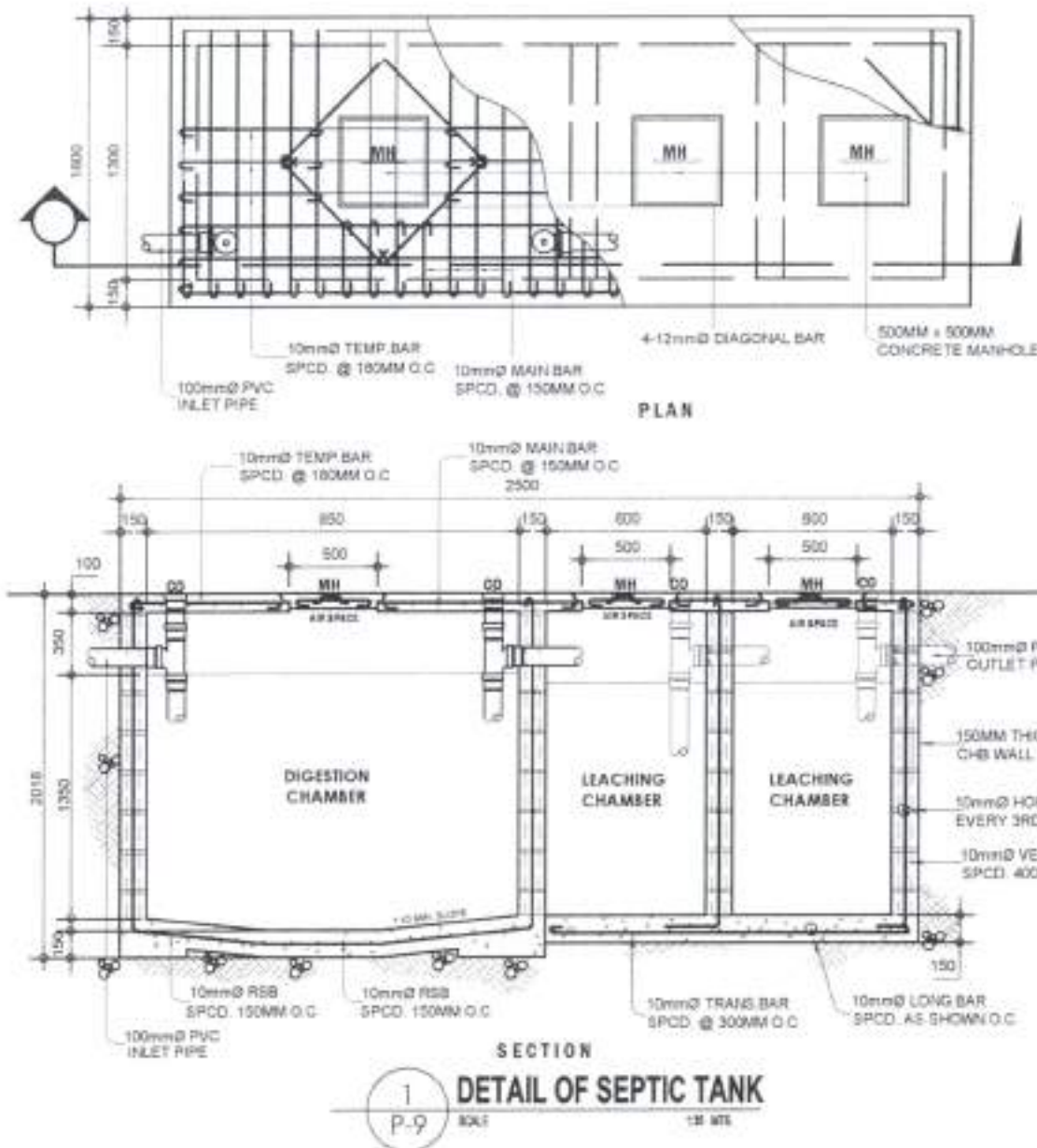
1. PIPES SHALL BE INSTALLED AS NOTICED. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE SANITARY ENGINEER IN CHARGE.

2. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATIONS.

3. ALL FIXTURES SHALL BE VENTED UNLESS OTHERWISE INDICATED.

4. AIR CHAMBER. ALL INDIVIDUAL BRANCHES TO THE FIXTURE OR GROUP OF FIXTURES AND / OR EQUIPMENT SHALL BE PROVIDED WITH AIR CHAMBER WITH CARVED VERTICAL PIPE EXTENSION OR DIMENSIONS.

5. WAGRE BRANCH CURVES MORE THAN ONE FIXTURE, INCREASE SIZE OF BRANCH PROPORTIONATELY.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. 2
BATANES DISTRICT ENGINEERING OFFICE
BAYAN KAYKAYAN, BACOD, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM - Local Infrastructure Program
Buildings and other Structures - Multi-Purpose Facilities
CONSTRUCTION OF PAGASA BUILDING

DESIGNED BY

SHEET CONTENTS
DETAIL OF SEPTIC TANK
GENERAL PLUMBING NOTE

DRAWN BY

REVIEWED BY

REVIEWED BY

SUBMITTED

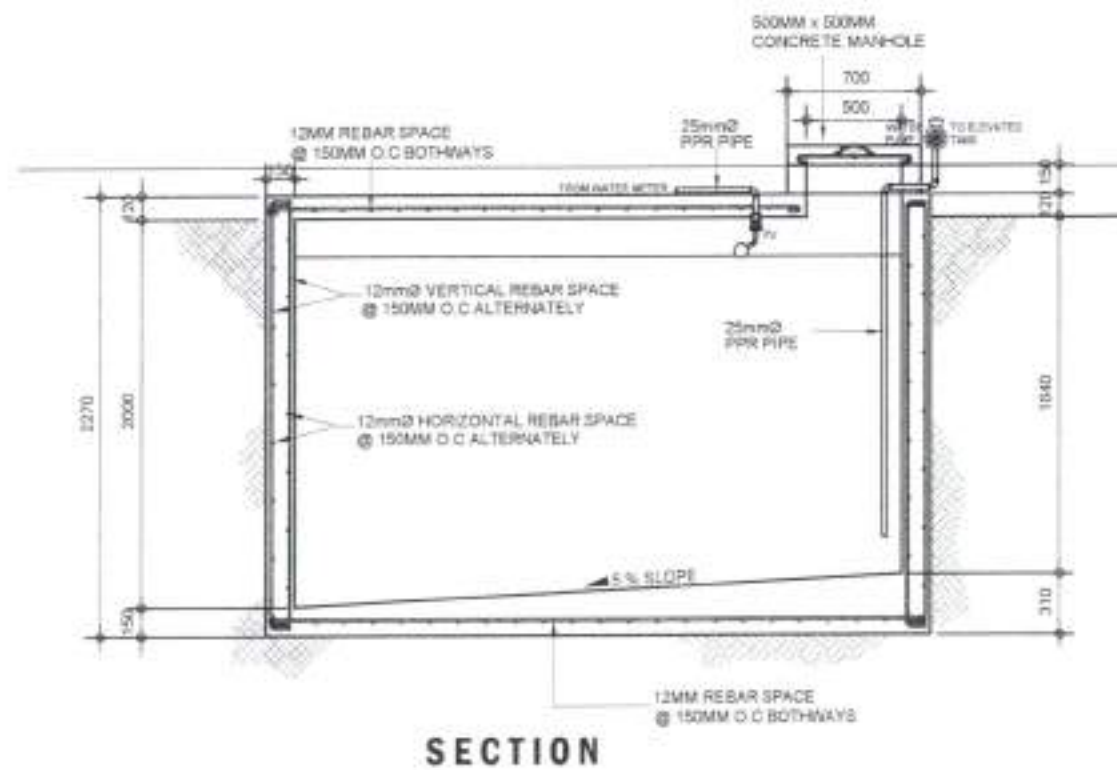
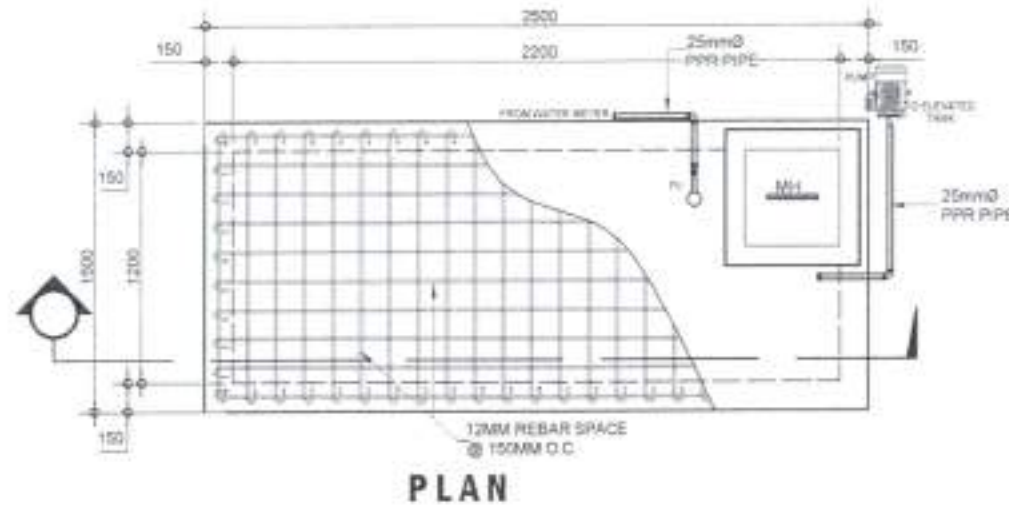
APPROVED

APPROVED

SHEET NO.

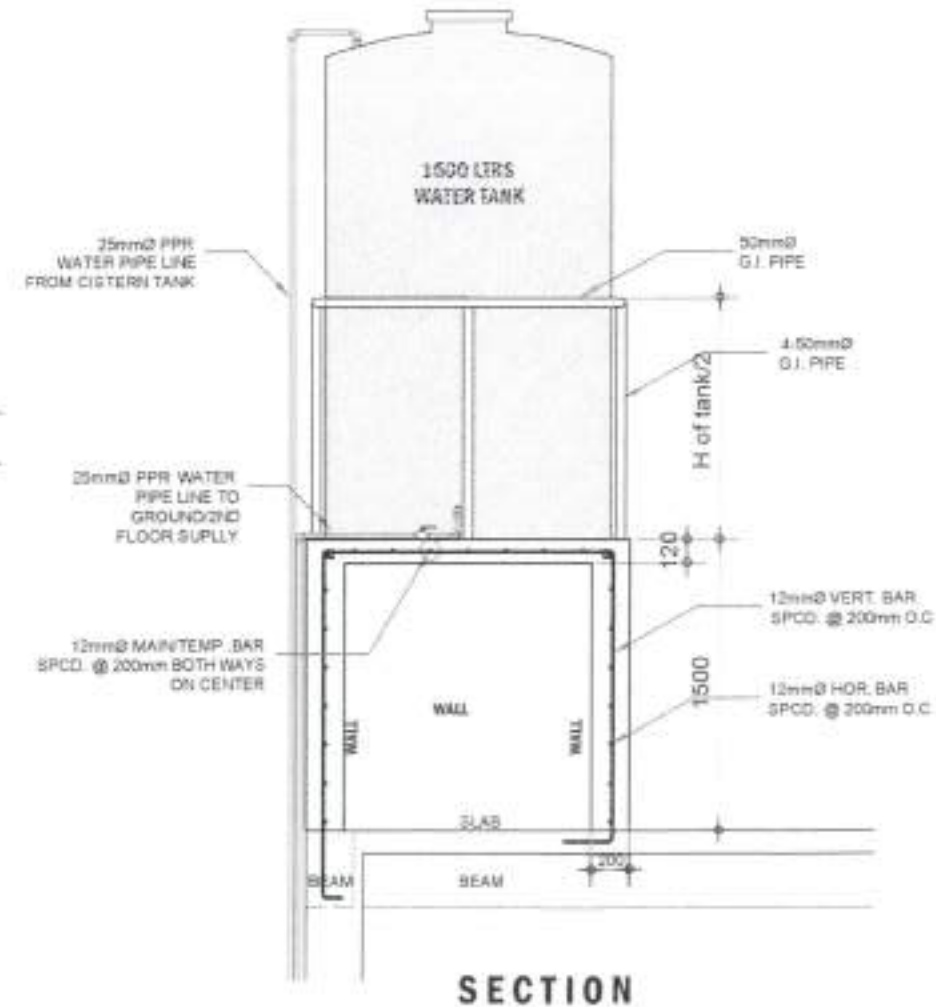
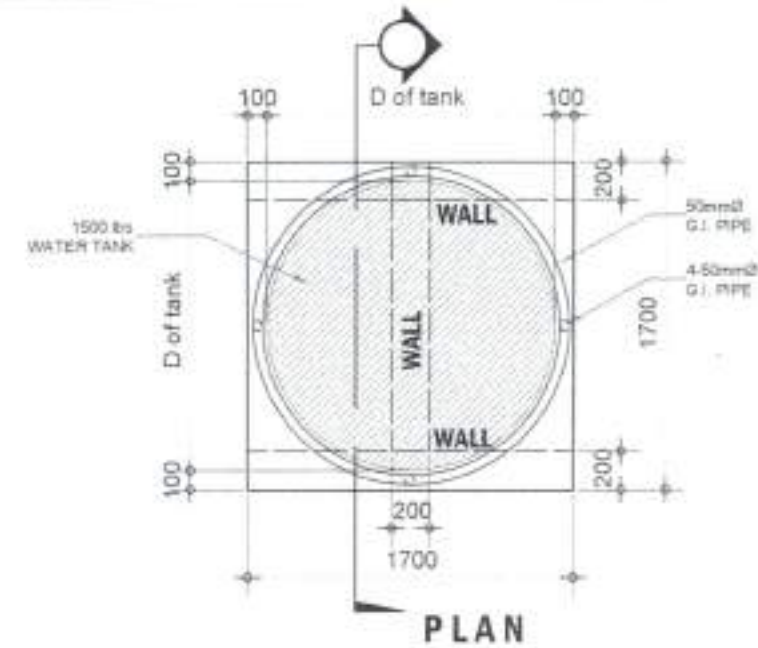
SHEET NO.

P-8
40 41



1
P-10
SCALE 1:50 MTS

DETAIL OF CISTERN TANK



2
P-10
SCALE 1:50 MTS

DETAIL OF ELEVATED TANK BASE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATAVIA DISTRICT ENGINEERING OFFICE
BAY KAYALIGAN, BACOD, BATAVIA

PROJECT NAME AND LOCATION
LOCAL PROGRAM Local Infrastructure Program
Buildings and other Structures, Multi-Purpose Facilities
CONSTRUCTION OF PADABA BUILDING

DESIGNER: [Signature]

SHEET CONTENTS
DETAIL OF CISTERN TANK
DETAIL OF ELEVATED TANK BASE

PREPARED: [Signature]

REVISED AND APPROVED BY: [Signature]

DESIGNED: [Signature]

RECOMMENDED: [Signature]

APPROVED: [Signature]

BY NO. 41

SHEET NO. 41

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWING, DIMENSIONS SHALL CONTROL AND DISTANCES AND SPACES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTS, LOCATION OF DOORS, ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE AC 308.3S, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION FOR BUILDING IN 300 MM AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- NO RETEYS TO AND/OR CONCRETE INTERFACES, AS TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. WOOLY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH CREATION AND PLACING DRAWINGS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL ADVISE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOPS, COUPLERS AND MECHANICAL SPICES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL ENGINEER.

NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY (20) DAYS BY CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS:

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE
ALL OTHERS, INCLUDING SUSPENDED SLABS	4000 PSI (27.6 MPa)	20mm
COLUMNS	4000 PSI (27.6 MPa)	20mm
BEAMS, SLABS	4000 PSI (27.6 MPa)	20mm
SLAB ON FILL	4000 PSI (27.6 MPa)	20mm

- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:
- | | |
|--|------|
| SUSPENDED SLABS | 20mm |
| SLAB ON GRADE | 40mm |
| WALLS ABOVE GRADE | 25mm |
| IRON STRUPTS AND COLUMN TIES | 40mm |
| WALLS EXPOSED TO EARTH BUT POURED AGAINST FORMS | 50mm |
| WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH | 75mm |

- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. REINFORCING STEEL SHALL BE SECURELY FASTENED WITH BUCKETS, BUCKETS OR MISCELLANEOUS TOOLS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUCKETS, MISCELLANEOUS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED 30 METERS IN ANY SINGLE LENGTH.

- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE ENGINEER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.

- ALL ANCHOR BOLTS, DOWELS, AND OTHER ANCHORS SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.

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

- STRENGTH OF FORMS AND CURING:
- | | |
|--|----------|
| FOUNDATION | 24 HOURS |
| SUSPENDED SLAB EXCEPT WHEN ADDITIONAL CURING ARE SPECIFIED | 21 DAYS |
| WALLS | 7 DAYS |
| BEAMS (CASTING) | 24 HOURS |
| BEAMS (FORMING) | 4 DAYS |
| COLUMNS | 2 DAYS |

- THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.

- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

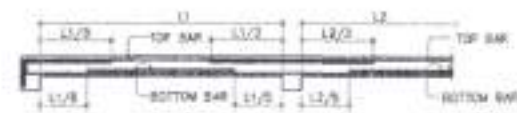
- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 150 KPa (1,500 PSI). CONTRACTOR SHALL REPORT TO THE ENGINEER IN WRITING THE ACTUAL SOIL CONDITIONS, UNDESIGNED AND GENERAL ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
- FOOTINGS SHALL REST AT LEAST 150mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE SOIL AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
 - A. FOOTINGS, FOOTING BEAMS AND GIRDERS $f_y = 275 \text{ MPa}$ (40,000 PSI)
 - B. COLUMNS AND SHEET PILES $f_y = 275 \text{ MPa}$ (40,000 PSI)
 - C. BEAMS AND GIRDERS $f_y = 275 \text{ MPa}$ (40,000 PSI)
 - D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARTITIONS, GUTTER SLOPS, SIDE WALLS $f_y = 275 \text{ MPa}$ (40,000 PSI)
- ALL REINFORCING BARS INTO 10mm OR LARGER SHALL BE OBTAINED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10mm MAY BE PLAIN.
- SPICES SHALL BE SECURELY WELDED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE A & TABLE B (TABLE OF LAP SPICES & ANCHORAGE LENGTHS) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPICES SHALL BE STAGGERED WHENEVER POSSIBLE.

NOTES ON CONCRETE SLABS

- ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
- UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:



TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

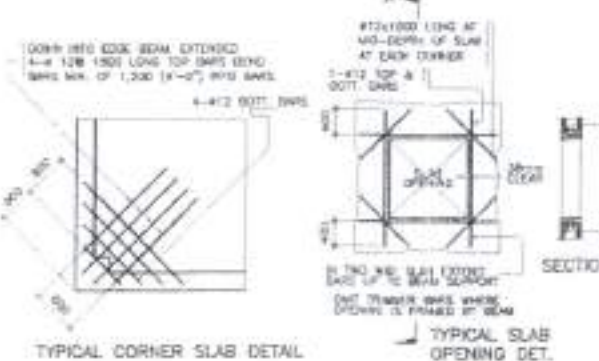
- IF SLABS ARE REINFORCED BOTHWAYS, BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW BARS ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONG SPAN. FOR REINFORCING BARS NEAR THE SUPPORTS, THE SPACING OF THE BARS AT THE COLUMN SPICES SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS.
- TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 X GROSS CROSS-SECTIONAL AREA (A_g) OF THE SLAB (SEE SCHEDULE BELOW).

THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm x 10 mm @ 250mm CDSH BAR
125 mm	10 mm x 10 mm @ 250mm CDSH BAR
150 mm	10 mm x 10 mm @ 250mm CDSH BAR
175 mm	10 mm x 10 mm @ 250mm CDSH BAR
200 mm	10 mm x 10 mm @ 250mm CDSH BAR

- UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm x 10 mm @ 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SLAB SHALL NOT BE LESS THAN 300mm FACTOR AWAY.

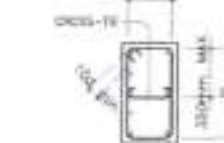
- PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT BEDDED SLABS) ELEVATED AS SHOWN BELOW.

- CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mm STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS.

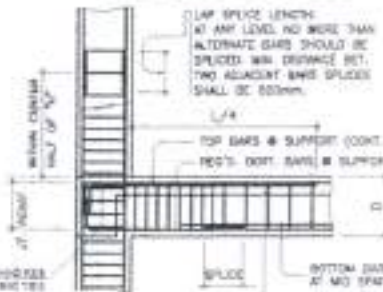


NOTES ON COLUMNS

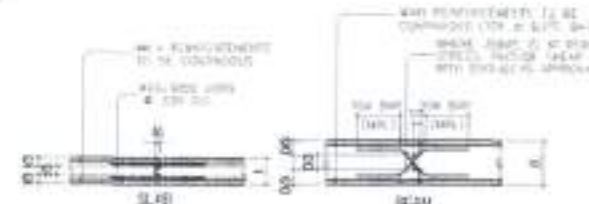
- PROVIDE EXTRA SETS OF BARS AT 100mm O.C. FOR RED COLUMNS REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/6 THE COLUMN HEIGHT OR 450mm.
- COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COATING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF CONCRETE AGGREGATE IN MILLIMETERS.
- WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10mm TIES AT 100mm SHALL BE PROVIDED THRU OUT THE OFFSET REGION.
- UNLESS OTHERWISE NOTED IN THE PLANS, LAP SPICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPICE LENGTH SHALL NOT BE LESS THAN 16 BAR DIAMETERS. WELDING OR APPROVED MECHANICAL SPICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPICES OF ADJACENT BARS IS NOT LESS THAN 600mm.



TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



TYP. DETAIL OF COL. LAP SPICE & EXT. GIRDER TO COL. CONNECT.



TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.

NOTES ON BEAMS AND GIRDERS

- UNLESS OTHERWISE NOTED IN PLANS, CANNOT ALL BEAMS AND GIRDERS AT LEAST BEAM FOR EVERY 4.5M OF SPAN. EXCEPT CANTILEVERS FOR WHICH THE CANTILEVER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 30mm FOR EVERY 3.0M OF FREE SPAN.
- TYPICAL BARS SECTION AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.

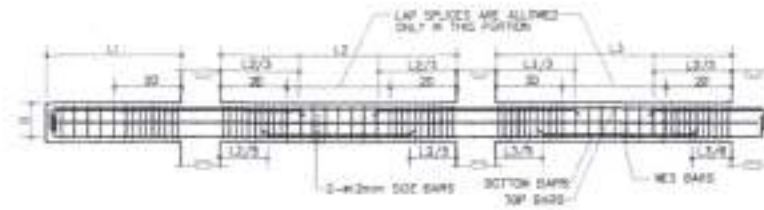


FIG. B-1

TABLE 'A' TENSION BARS EMBEDMENT LENGTHS AND LAPPED SPICES IN MILLIMETERS					TABLE 'B' COMPRESSION BARS EMBEDMENT LENGTHS AND LAPPED SPICES IN MILLIMETERS				
BAR SIZE (DEFINITE)	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	BAR SIZE (DEFINITE)	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$
10mm #	300	300	300	300	10mm #	225	225	225	225
12mm #	300	300	300	300	12mm #	225	225	225	225
14mm #	300	300	300	300	14mm #	225	225	225	225
16mm #	400	400	400	400	16mm #	225	225	225	225
18mm #	400	400	400	400	18mm #	225	225	225	225
20mm #	400	400	400	400	20mm #	225	225	225	225
22mm #	400	400	400	400	22mm #	225	225	225	225
25mm #	400	400	400	400	25mm #	225	225	225	225
28mm #	400	400	400	400	28mm #	225	225	225	225
32mm #	400	400	400	400	32mm #	225	225	225	225

NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 1.

NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 1.

VALUES SHOWN ABOVE OR ALSO BE USED FOR COLUMNS.

- IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLANS. TOP BAR SHALL NOT BE SPICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN AT LEAST TWO STRUTS SHALL BE PROVIDED AT ALL SPICES.

- IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mm BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.

- MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B-1 UNLESS SPECIFIED ELSEWHERE.

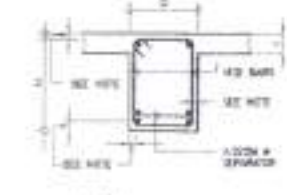


FIG. B-2

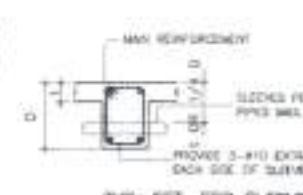
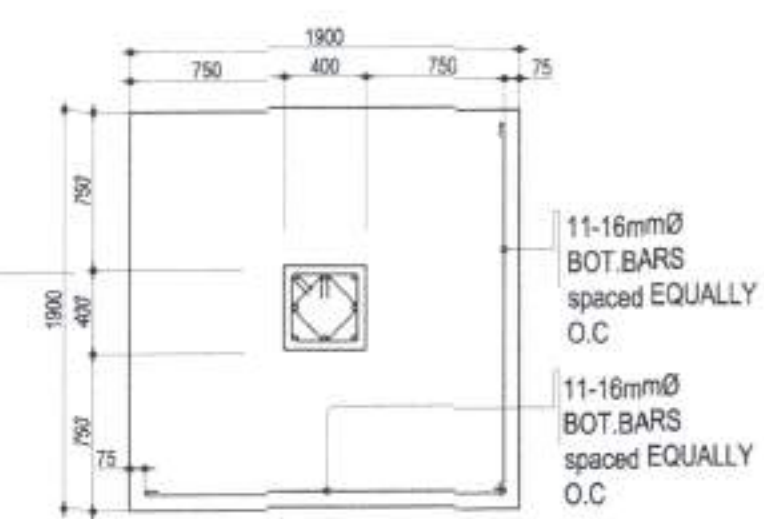
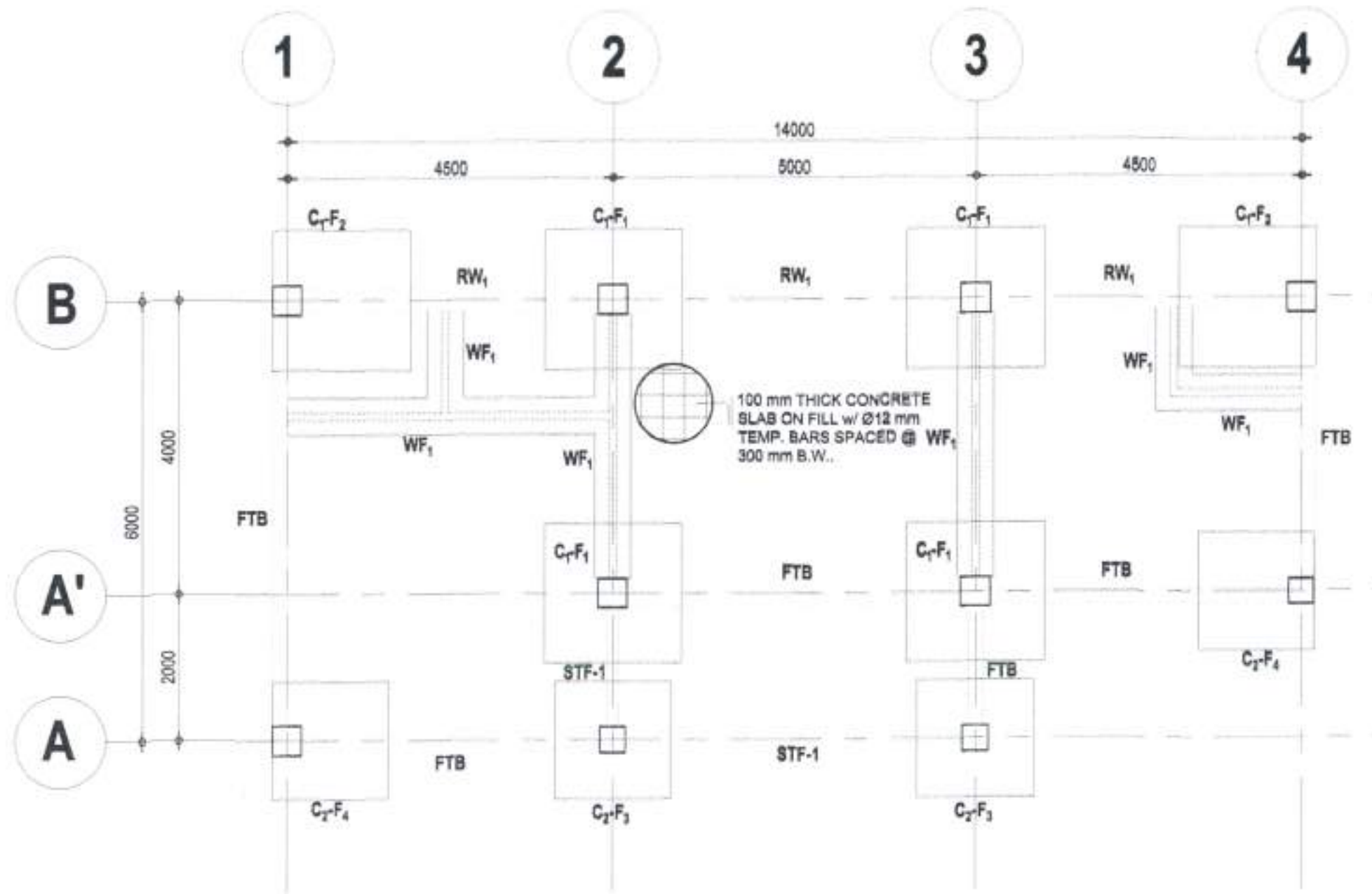


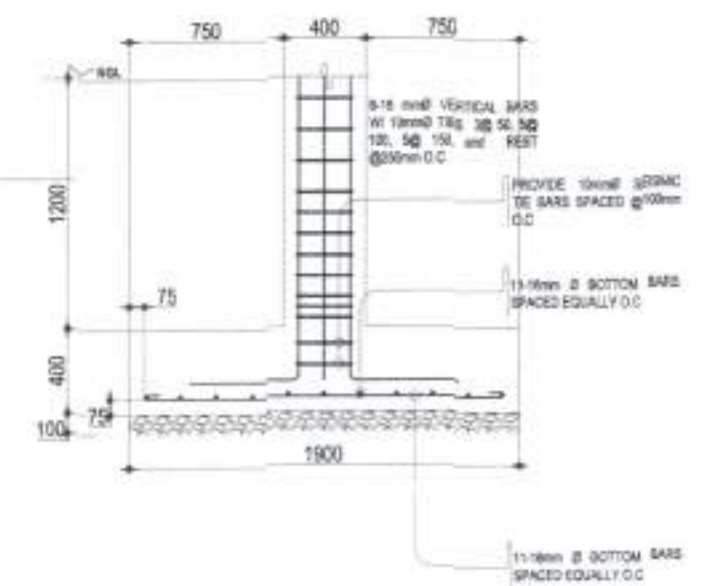
FIG. B-3

- WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER RAISE BEAM REINFORCING BAR SHALL BE SMALLER THAN ABOUT CENTER LINE WHENEVER POSSIBLE.

- GENERALLY NO SPICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING MOMENTS OCCUR. SPICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B' WELDED SPICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED TENSILE STRENGTH OF THE BAR NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPICED THINER.



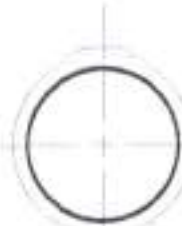
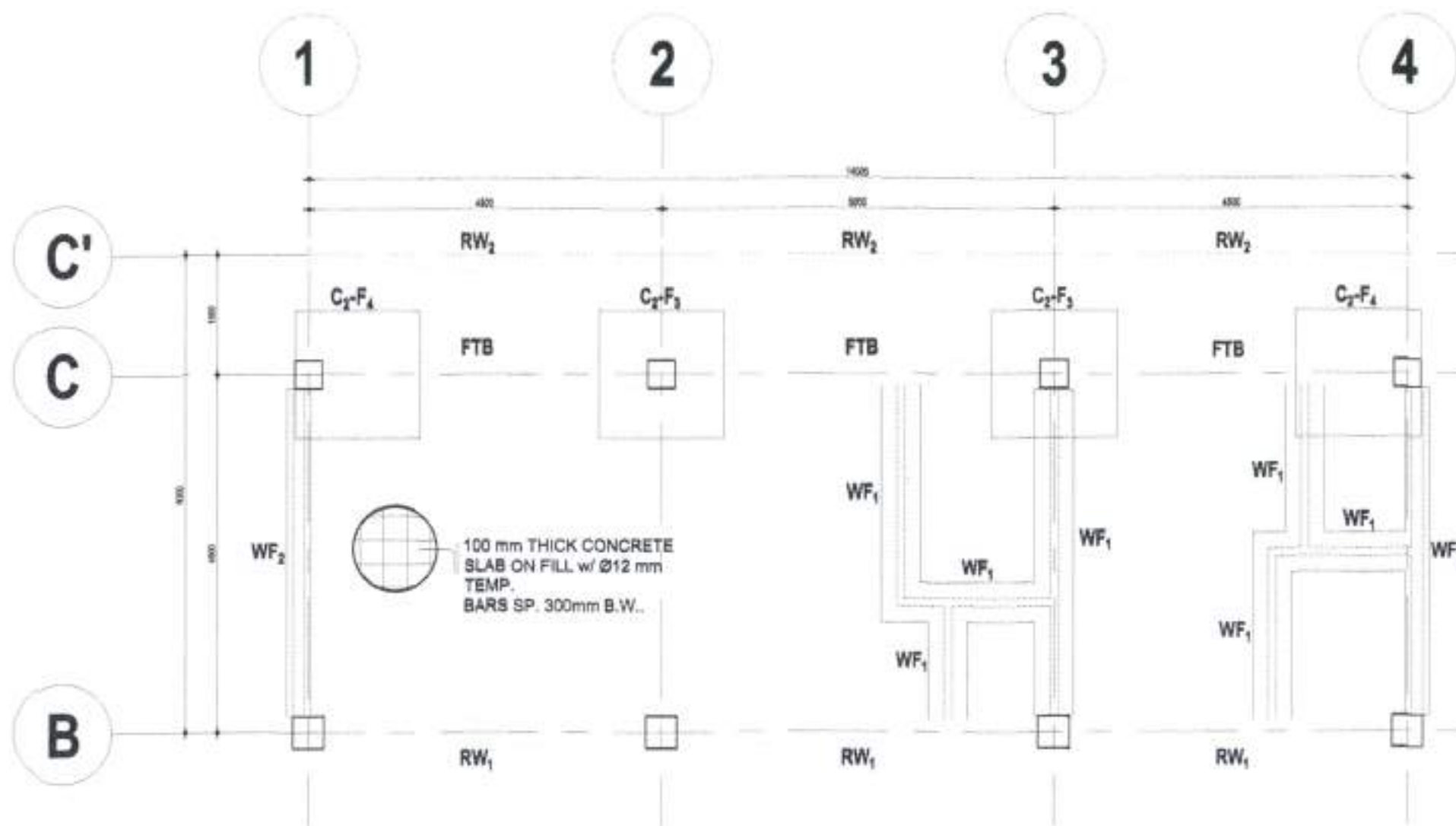
C1-F1 PLAN
SCALE 1:25MTS.



C1-F1 SECTION DETAIL
SCALE 1:25MTS.

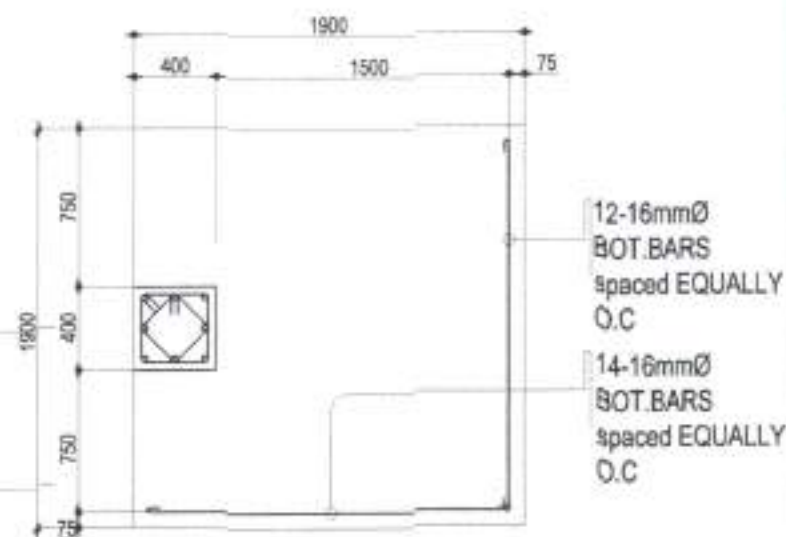
LOWER GROUND
FOUNDATION PLAN
SCALE 1:50MTS.

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. 2 BATANES DISTRICT ENGINEERING OFFICE BRGY. KAYWALUGANAN, BANGAL, BATANES</p>	<p>PROJECT NAME AND LOCATION: LOCAL PROGRAM: Local Infrastructure Program; Buildings and other Structures; Multi-Purpose / Facilities CONSTRUCTION OF PAGASA BUILDING</p>	<p>SHEET CONTENTS: LOWER GROUND FOUNDATION PLAN</p>	<p>DRAWN BY: KATHLEEN KAYE C. MANAGAN</p>	<p>REVIEWED BY: MARK ANGELO C. HORTA</p>	<p>SUBMITTED BY: PRUDENCA V. ARMENTE</p>	<p>RECOMMENDED BY: RODRICK V. HORNEADO</p>	<p>APPROVED BY: DIONISIO C. LOMBARD</p>	<p>SHEET NO.: S-3 15/41</p>
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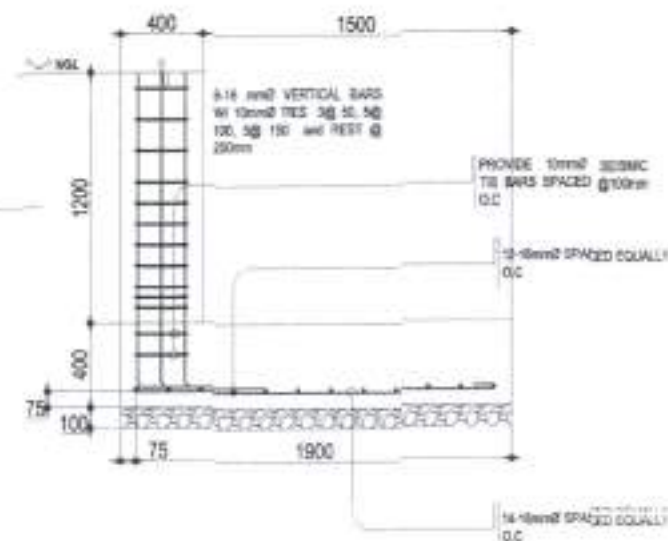


UPPER GROUND FOUNDATION PLAN

SCALE 1:50MTS.

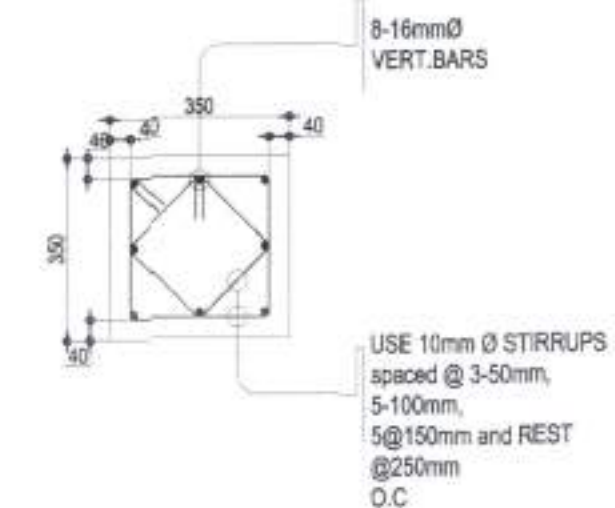


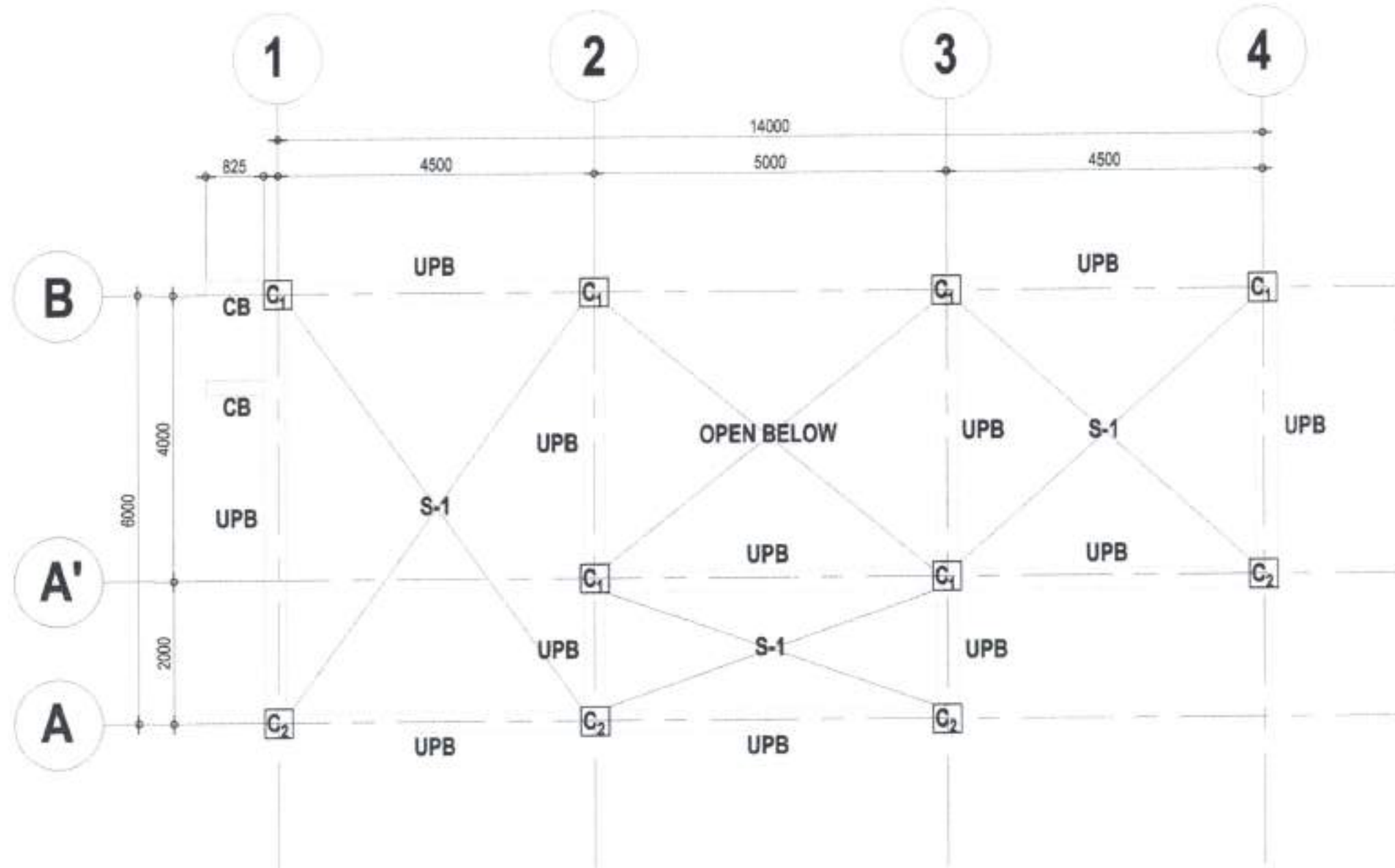
C1-F2 PLAN
SCALE 1:25MTS.



C1-F2 SECTION DETAIL
SCALE 1:25MTS.

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. 2 BATANES DISTRICT ENGINEERING OFFICE BPOF, KAPALIGAWAN, SAGOD, BATANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM Local Infrastructure Program Buildings and other Structures, Multi-Purpose / Facilities CONSTRUCTION OF PADARA BUILDING</p>	<p>SHEET CONTENTS UPPER GROUND FOUNDATION PLAN</p>	<p>DRAWN BY KATHLEEN KAYE C. MANAGAN</p>	<p>REVIEWED AND APPROVED MARK ANTONIO C. MORTIZ</p>	<p>RECOMMENDED RODRICK V. HORNEO</p>	<p>APPROVED DIOSDADO C. LOMBAO</p>	<p>SHEET NO. 16 SHEET TOTAL 41</p>
--	--	--	--	---	--	--	--

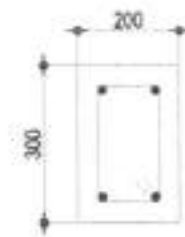




UPPER LEVEL FRAMING PLAN

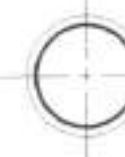
SCALE

1:50MTS.



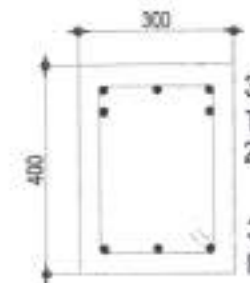
2-16mm \varnothing CONTINUOUS
TOP BAR
2-16mm \varnothing CONTINUOUS
BOTTOM BAR

STIRRUPS: 10mm \varnothing SPACED @
3@50, 3@100, 3@150, REST @ 200



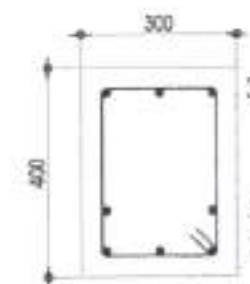
FTB SECTION DETAIL

SCALE 1:10MTS.



3-16mm \varnothing CONTINUOUS
TOP BAR
2-16mm \varnothing EXTRA TOP BARS
3-16mm \varnothing CONTINUOUS
BOTTOM BAR

@SUPPORT



3-16mm \varnothing CONTINUOUS TOP BAR
2-16mm \varnothing EXTRA BOTTOM BAR
3-16mm \varnothing CONT. BOTTOM BAR

@MIDSPAN

STIRRUPS: 10mm \varnothing SPACED @
3@50, 3@100, 3@150, REST @ 200



UPB SECTION DETAIL

SCALE 1:10MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BREV. KAYVALAGANAS, DARAO, BATANES

PROJECT NAME AND LOCATION:
LOCAL PROGRAM: Local Infrastructure Program;
Buildings and other Structures; Multi-Purpose / Facilities;
CONSTRUCTION OF PAGASA BUILDING

TSARAT, BATANES

SHEET CONTENTS:

UPPER LEVEL FOUNDATION PLAN

DRAWN BY:

KAYLA ANGELINA L. PAGASA

PREPARED BY:

KATHLEEN KAYLA C. BUNAGAN

REVIEWED AS TO DESIGN CONCEPT:

MARK ANTONIO C. HORTA

SUBMITTED:

PRUDENCIO M. SANTIAGO

RECOMMENDED:

RODOLFO V. HERNANDEZ

APPROVED:

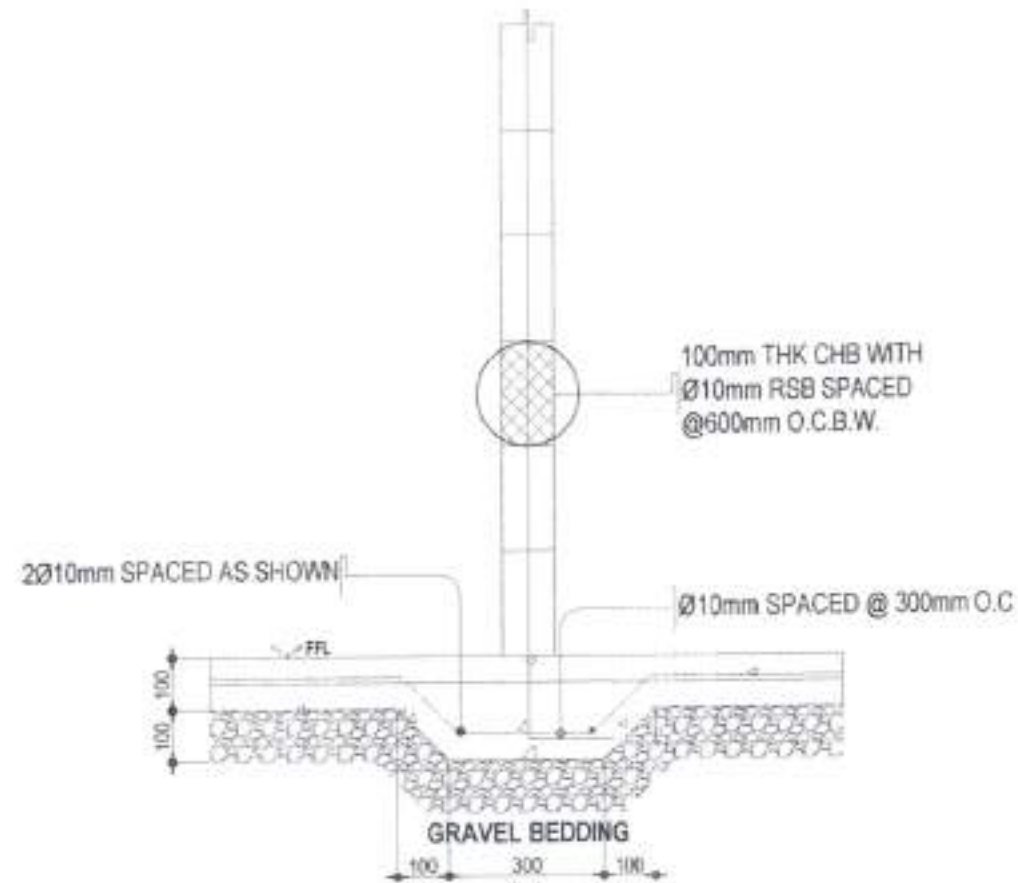
DICEDANO C. L. LACRADO

SHEET NO.:

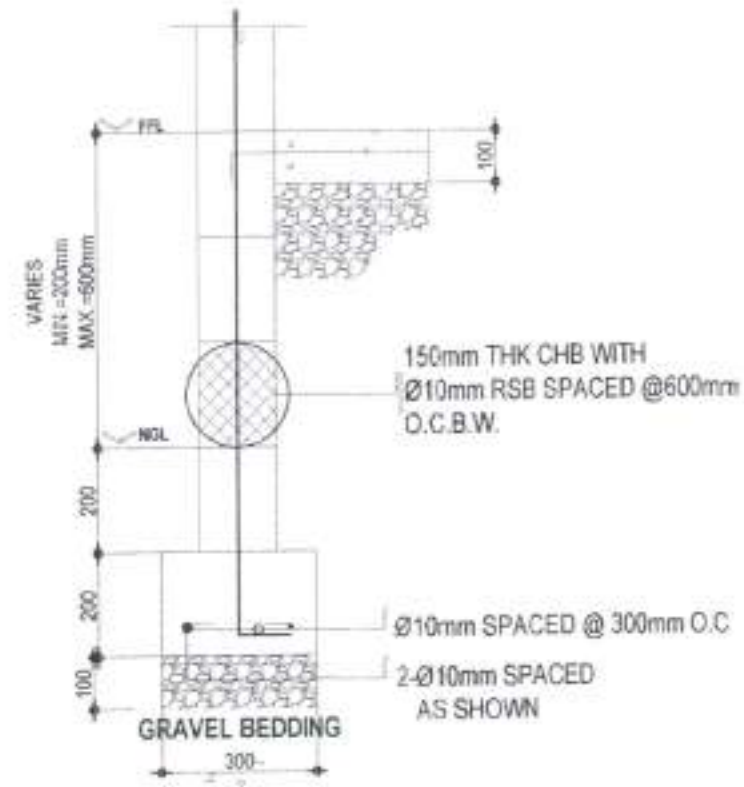
S-6

SHEET NO.:

18/41



WF-1 DETAIL



WF-2 DETAIL



WALL FOOTING DETAILS

SCALE

1:10MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KAYALANMAN, BANGAL, ULITHAN

PROJECT NAME AND LOCATION

LOCAL PROGRAM Local Infrastructure Program:
Buildings and other Structures, Multi-Purpose Facilities,
CONSTRUCTION OF PAGASA BUILDING

(SHEET NUMBER)

SHEET CONTENTS

WALL FOOTING DETAILS

DRAWN BY

KAYALANMAN BANGAL

PREPARED BY

KAYALANMAN BANGAL

REVIEWED AS DESIGN CONCEPT

MARK MORENO C. MORTIS

SUBMITTED BY

MARK MORENO C. MORTIS

RECOMMENDED BY

RODRICK V. MORIEDO

APPROVED BY

RODRICK V. MORIEDO

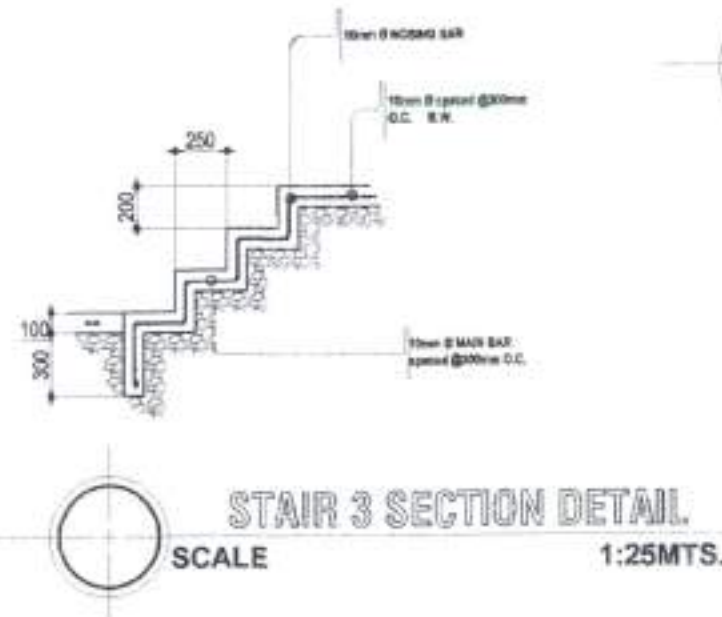
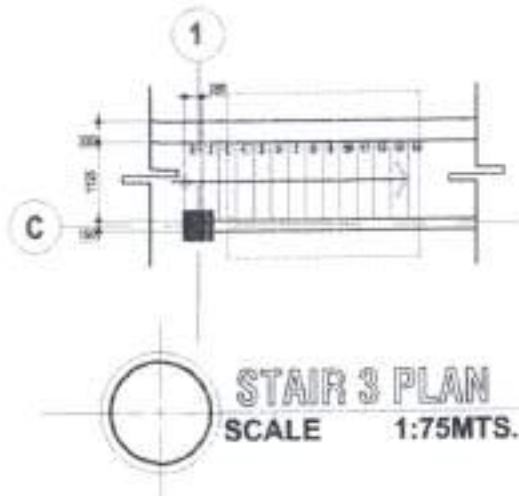
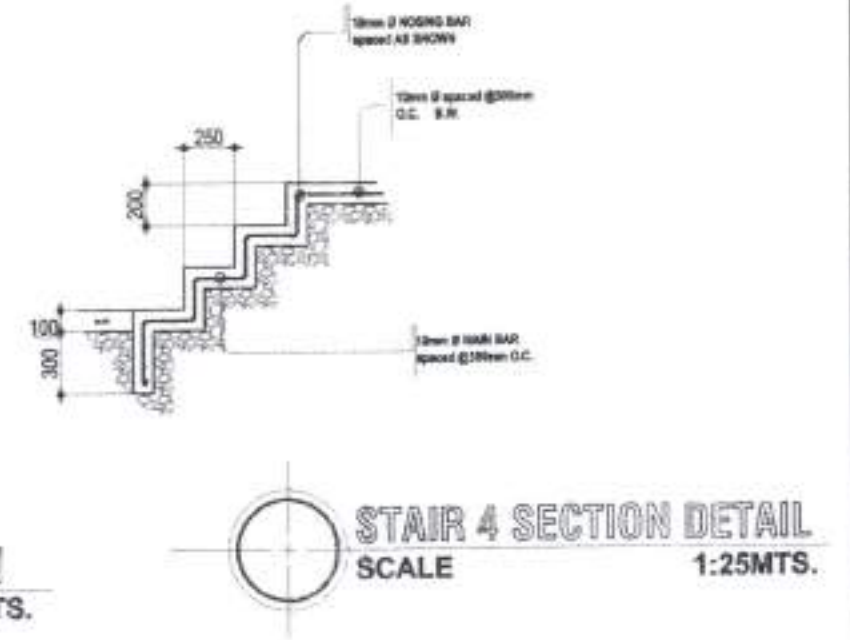
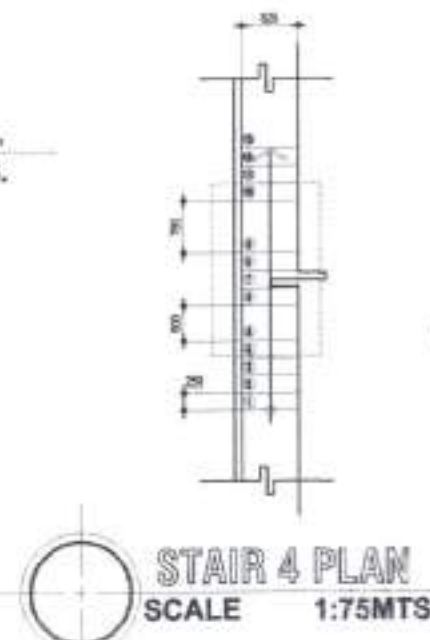
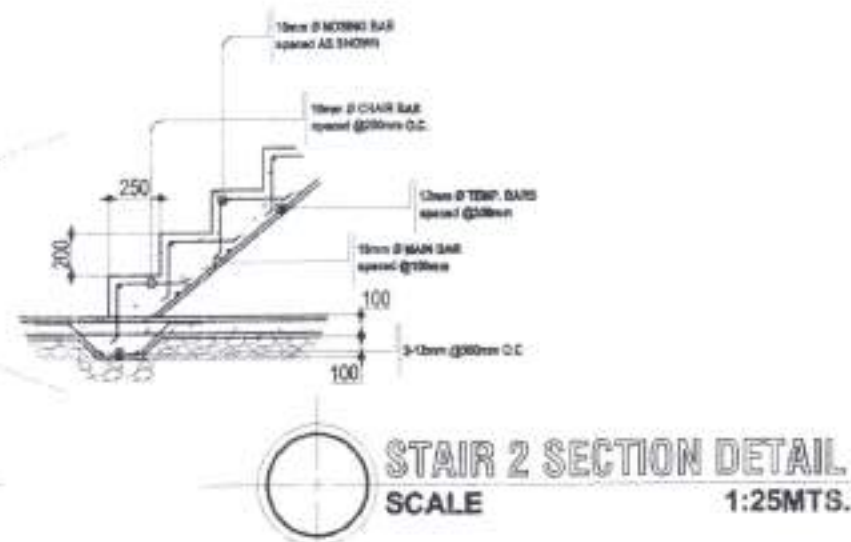
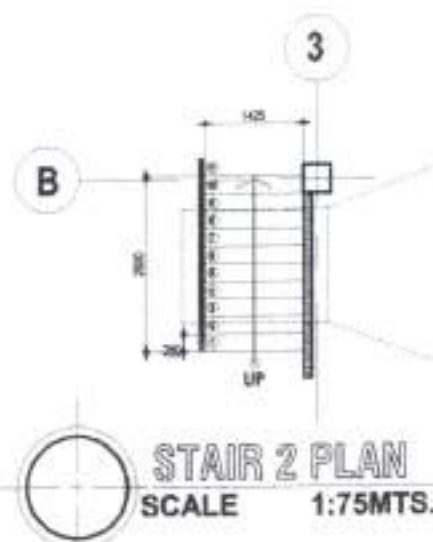
SHEET NO.

20

SHEET NO.

20

41



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
SALANES DISTRICT ENGINEERING OFFICE
BRGY. MUYALUSAWAN, BAGO, 641200

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
Buildings and other Structures, Multi-Purpose / Facilities
CONSTRUCTION OF PAGASA BUILDING
ISSUED: 04/2024

SHEET CONTENTS
STAIR FOOTING DETAIL

DRAWN BY
KAYLA MARIE D. LARGAS
PREPARED BY
KATHLEEN KAYE C. BANGS

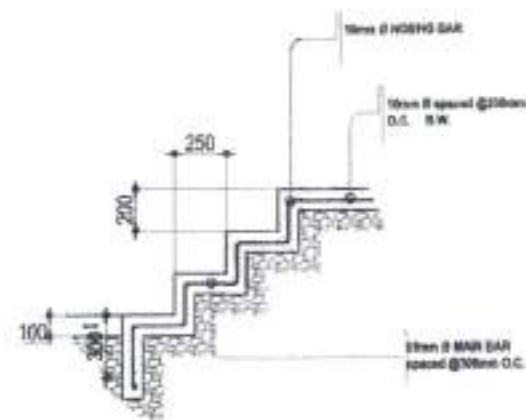
REVIEWED AS TO DESIGN CONCEPT
MARK ANDREI C. HORTIZ

DESIGNED BY
PRINCE ALAN L. ALARCON

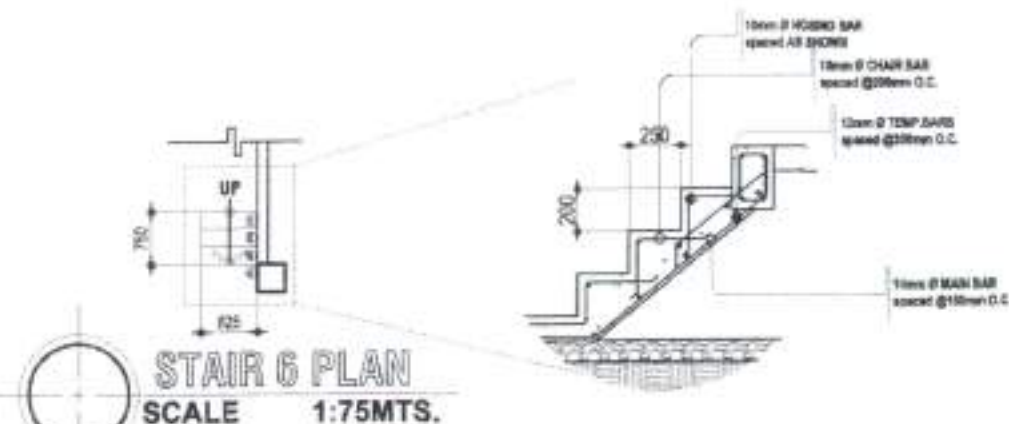
RECOMMENDED BY
RODRICK V. HORNEO

APPROVED BY
DIOSDADO C. LOMBAO

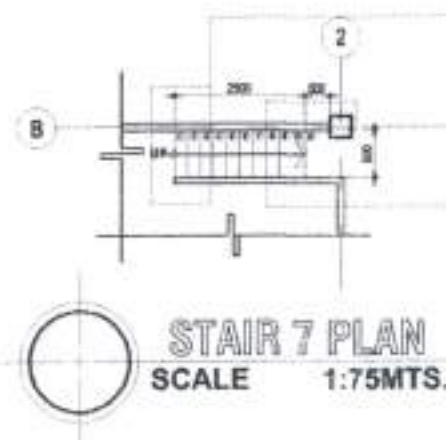
SET NO.:
SHEET NO.:
5-10
22 41



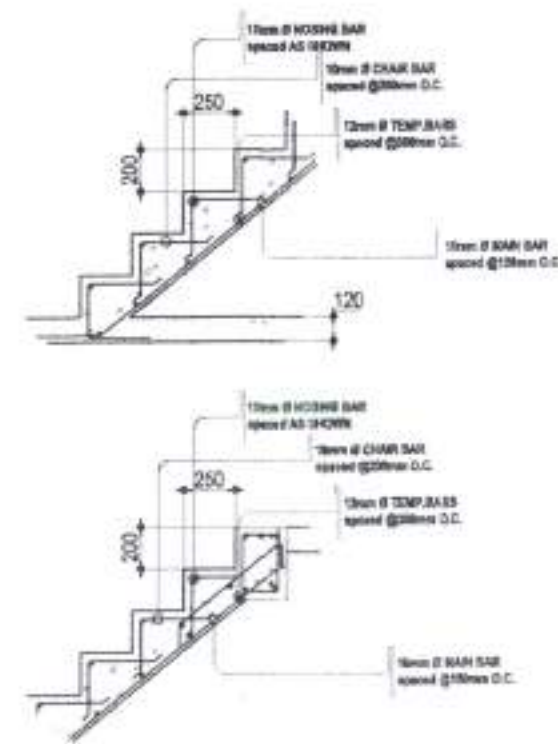
STAIR 5 SECTION DETAIL
SCALE 1:25MTS.



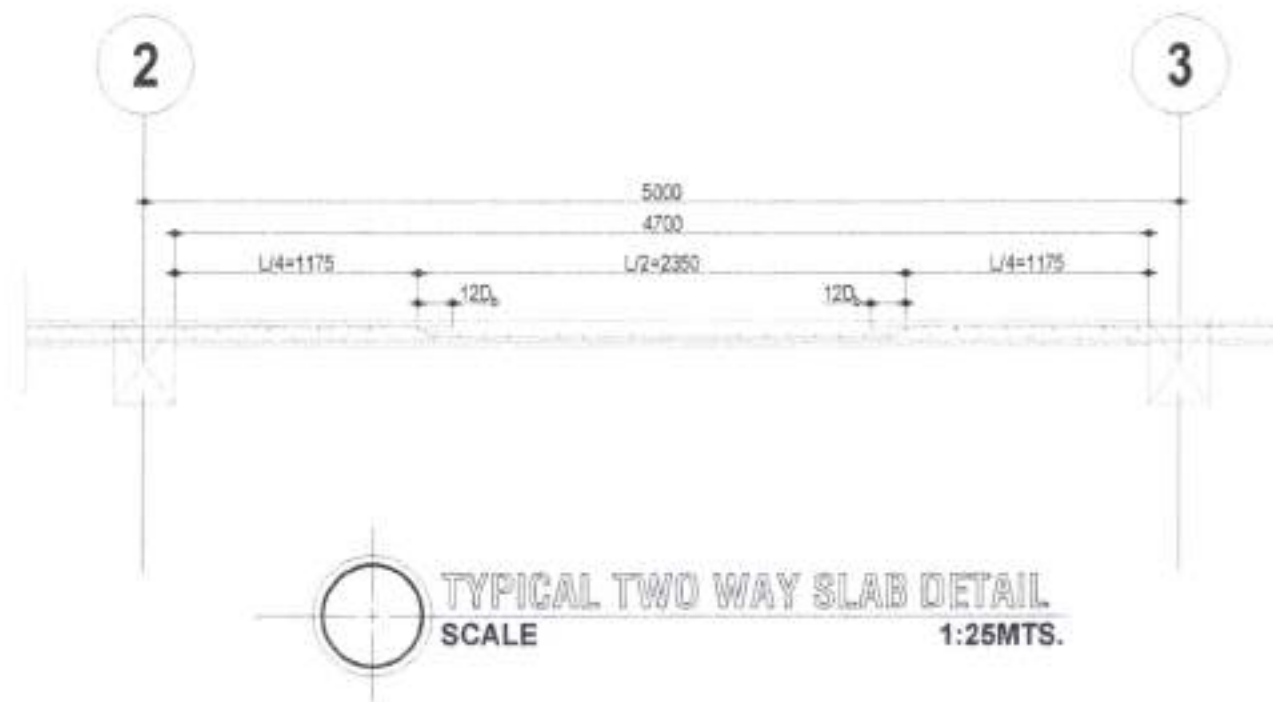
STAIR 6 SECTION DETAIL
SCALE 1:25MTS



STAIR 7 PLAN
SCALE 1:75MTS



STAIR 7 SECTION DETAIL
SCALE 1:25MTS.



SLAB SCHEDULE

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT					REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION	
		FULL LENGTH	CURTAILED	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT		
S1	120	12mm@ 240 C/C	—	12mm@ 240 C/C	—	12mm@ 240 C/C	12mm@ 240 C/C	12mm@ 240 C/C	12mm@ 240 C/C	12mm@ 240 C/C	—



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. 2
BATANES DISTRICT ENGINEERING OFFICE
BRYL RAYVILIGAN, BASCO, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program,
Buildings and other Structures, Multi-Purpose / Facilities,
CONSTRUCTION OF PAGASA BUILDING
PROJECT: BATANES

SHEET CONTENTS
TWO WAY SLAB DETAIL,
SLAB SCHEDULE

DRAWN
KATHY-DEAN M. FARGAS
PREPARED
KATHY-DEAN M. FARGAS

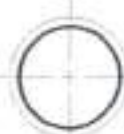
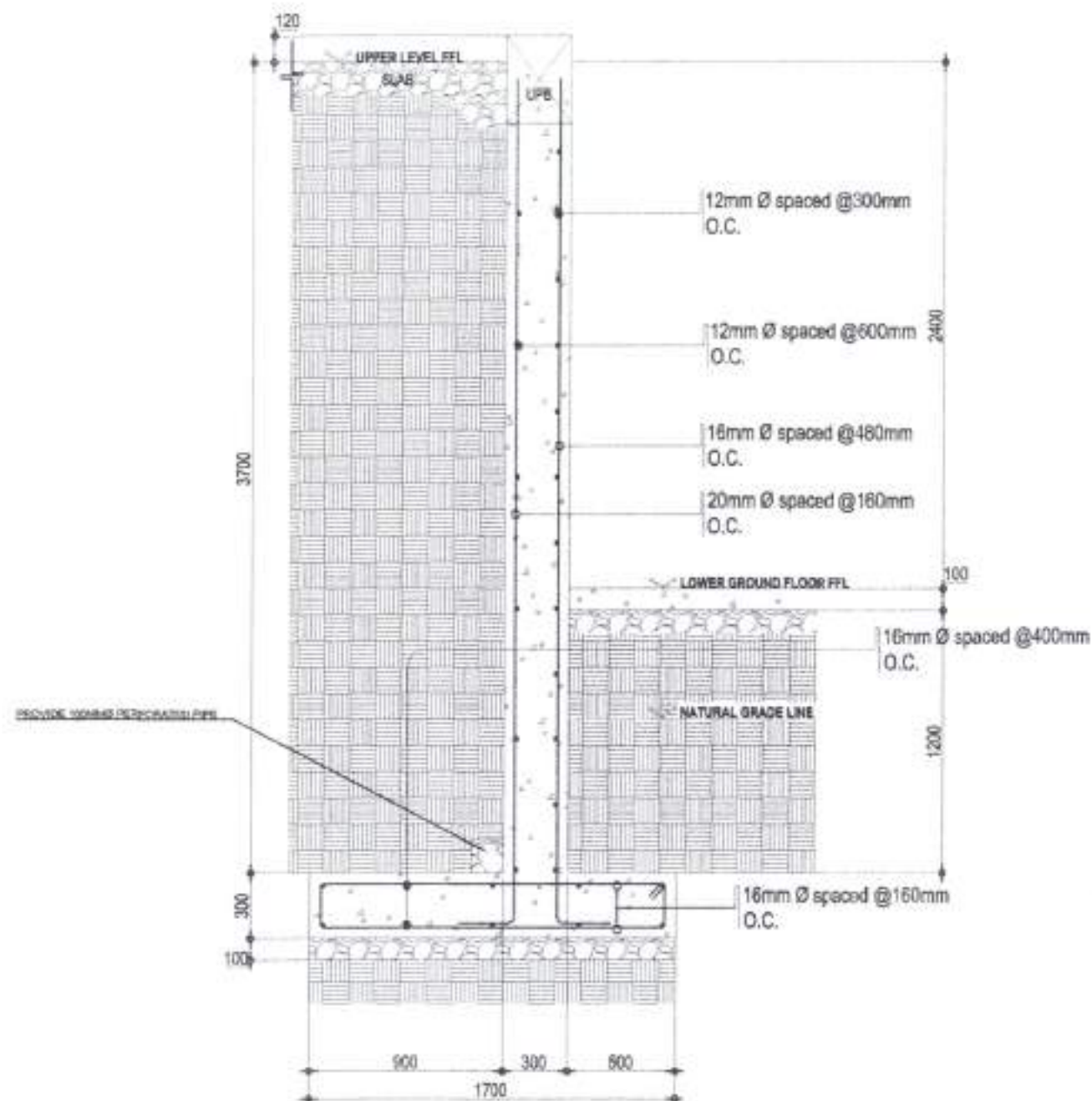
REVIEWED BY DESIGN/CONCEPT
MARK ANDRE C. HORTIZ
DATE

ELABORATED
PRUDENCE M. VALERA
DATE

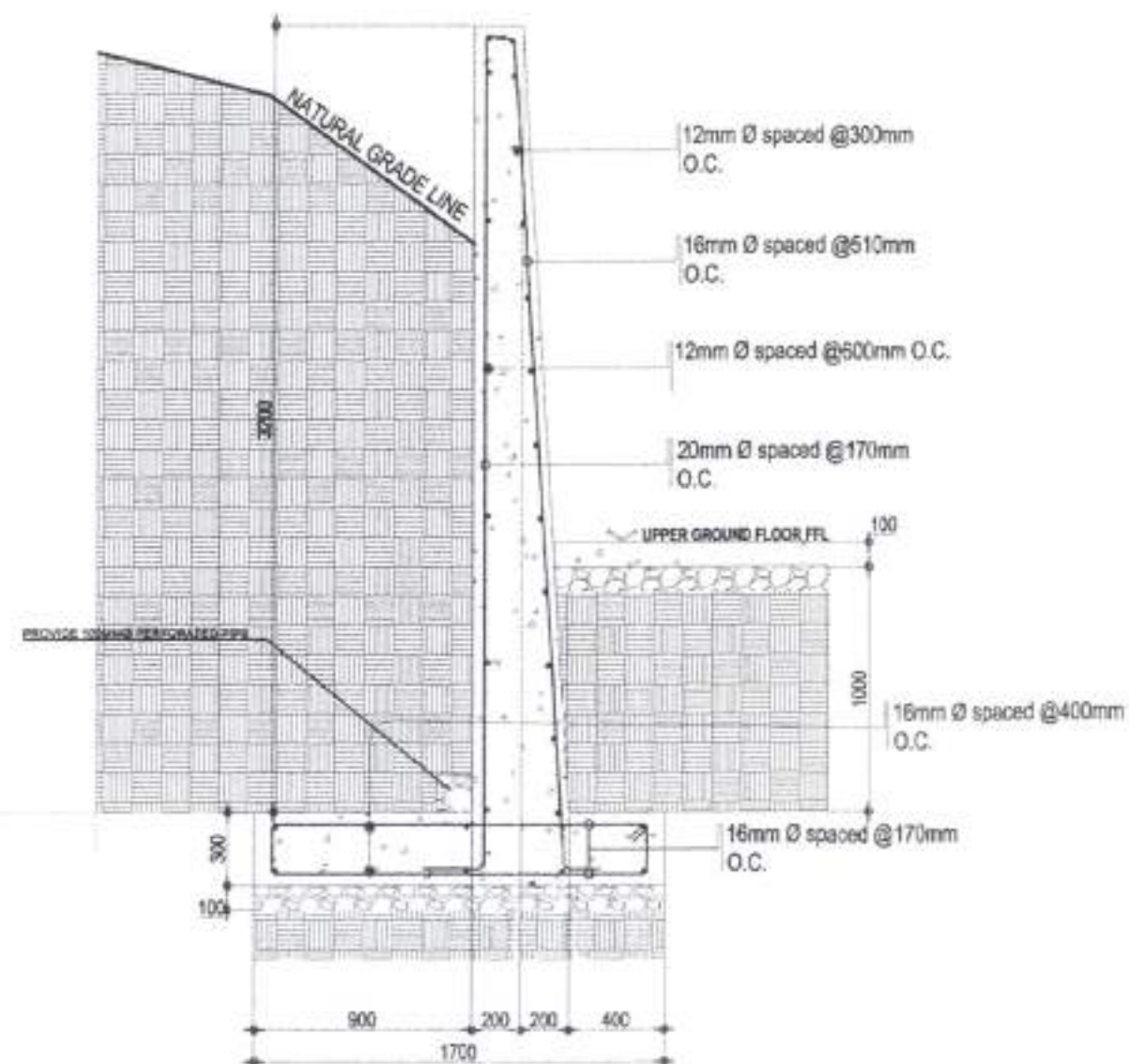
RECOMMENDED
RODRIGO V. HERNANDEZ
DATE

APPROVED
DIOSDADO C. LOMBAO
DATE

SHEET NO.
5-12
24/41



RETAINING WALL 1 DETAIL
SCALE 1:20MTS.



RETAINING WALL 2 DETAIL
SCALE 1:20MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 3
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KAYVALLASAN, BANGAS, BATANES

PROJECT NAME AND LOCATION:
LOCAL PROGRAM: Local Infrastructure Program;
Buildings and other Structures; Multi-Purpose / Facilities;
CONSTRUCTION OF PAGASA BUILDING

ISBAT, BATANES

SHEET CONTENTS:
RETAINING WALL DETAILS

DRAFTED:
KAYLA RUIZ VARGAS
REVIEWED:
KATHLEEN RAY GUTIERREZ

REVIEWED TO DESIGN CONCEPT:
MARIA ANTONIO C. HONORATO

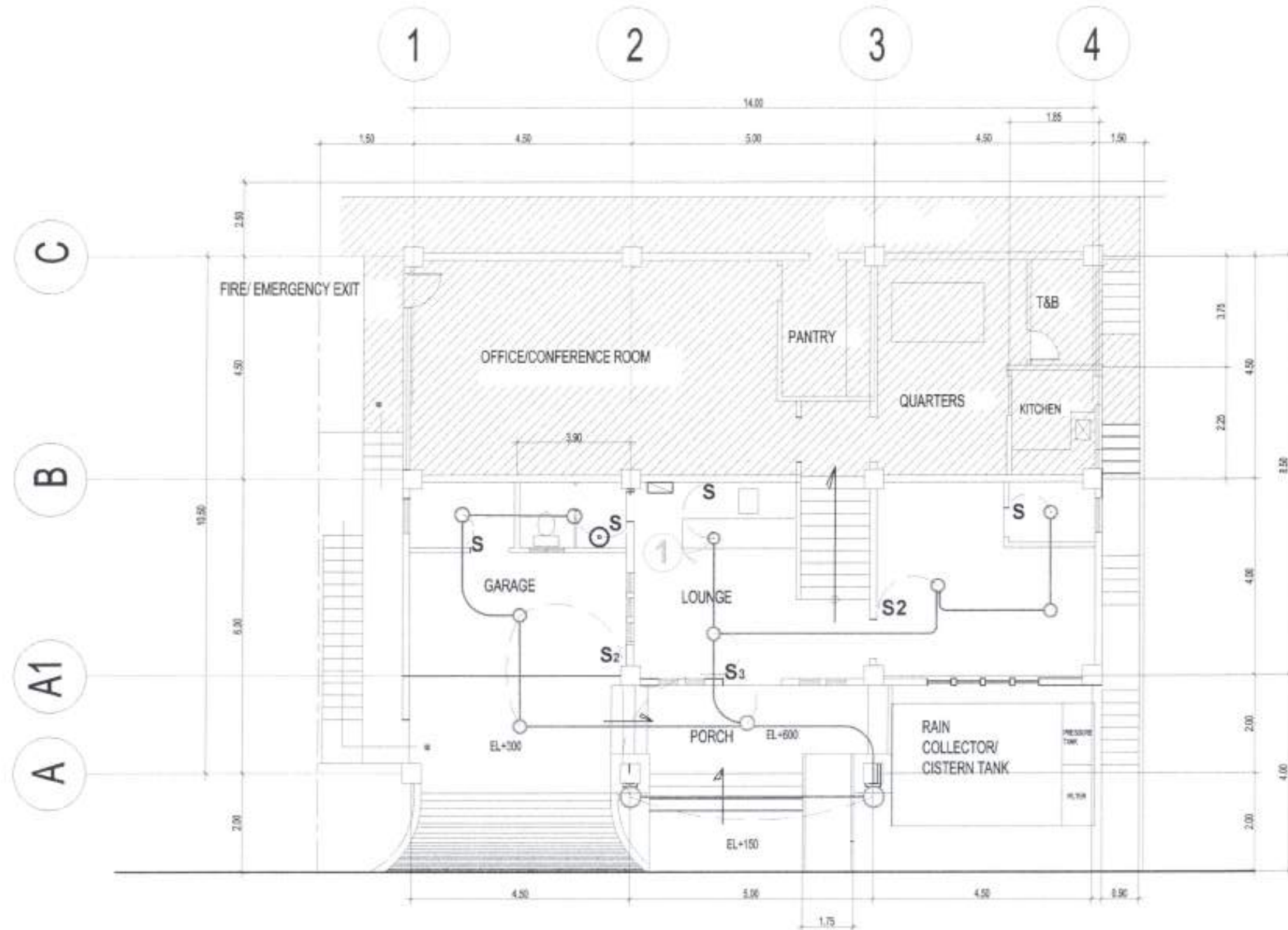
SUBMITTED:
PRUDENCIO VALENTE

RECOMMENDED:
RODRICK V. HORNEO

APPROVED:
DIOSDADO C. LOMBARDI

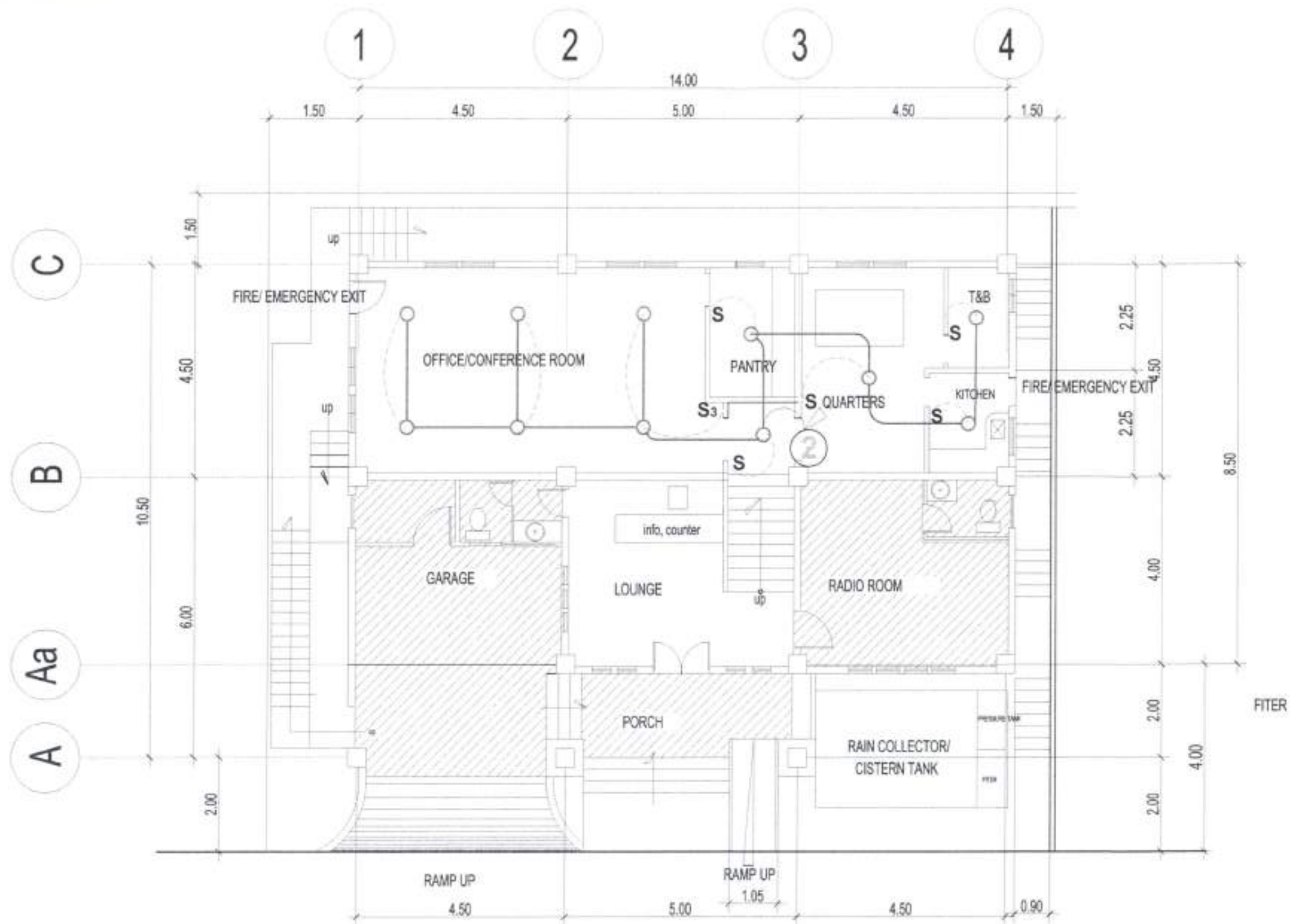
SHEET NO.
S-13

SHEET NO.
25/41



1 GROUND FLOOR LIGHTING PLAN
E-1 SCALE 1:60 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 2 BATANES DISTRICT ENGINEERING OFFICE 8957, KAYVILLAGAN, BANGU, BATANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM Local Infrastructure Program Buildings and other Structures: Multi-Purpose Facilities CONSTRUCTION OF PAGASA BUILDING</p>	<p>SHEET CONTENTS GROUND FLOOR LIGHTING PLAN</p>	<p>DRAWN BY <i>[Signature]</i> CHECKED BY <i>[Signature]</i></p>	<p>REVIEWED AS TO DESIGN CONCEPT <i>[Signature]</i></p>	<p>SUBMITTED BY <i>[Signature]</i></p>	<p>RECOMMENDED BY <i>[Signature]</i></p>	<p>APPROVED BY <i>[Signature]</i></p>	<p>SET NO. E-1 20/41</p>
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1 UPPER LEVEL LIGHTING PLAN
E-2 SCALE

1:60 MTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANGAS DISTRICT ENGINEERING OFFICE
BRP. BAYRULUWANG, BAYBAY, BATANGAS

PROJECT NAME AND LOCATION
LOCAL PROGRAM Local Infrastructure Program
Buildings and other Structures, Multi-Purpose / Facilities
CONSTRUCTION OF RAJASA BUILDING

DESIGN APPROVED

SHEET CONTENTS
UPPER LEVEL LIGHTING PLAN

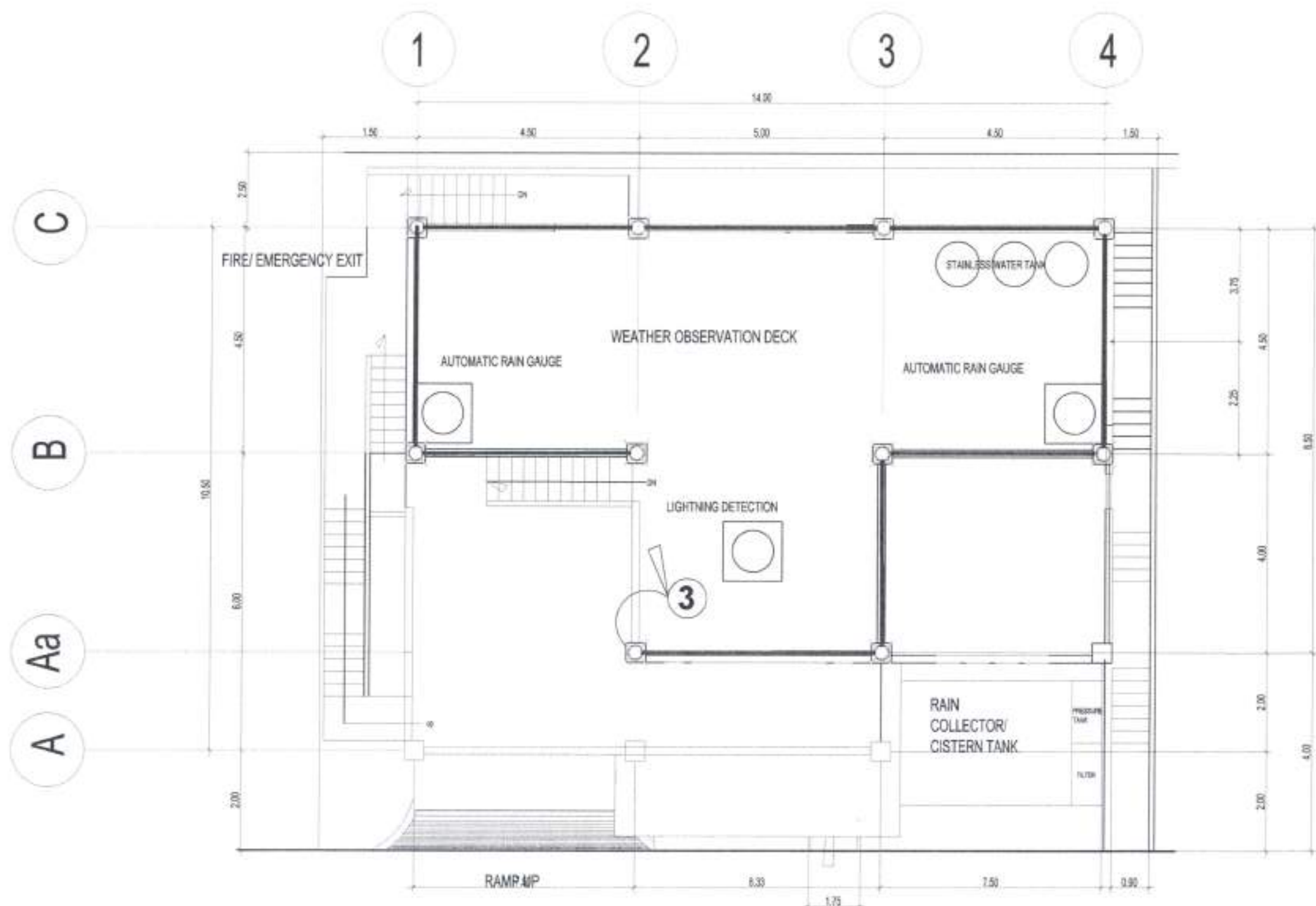
DRAWN: [Signature]
CHECKED: [Signature]
PROJECT ENGINEER: [Signature]

REVIEWED AS TO DESIGN CONCEPT: [Signature]
PROJECT MANAGER: [Signature]

SUBMITTEE: [Signature]
RECOMMENDED: [Signature]
RODRICK V. HORRADO
CITY ENGINEER

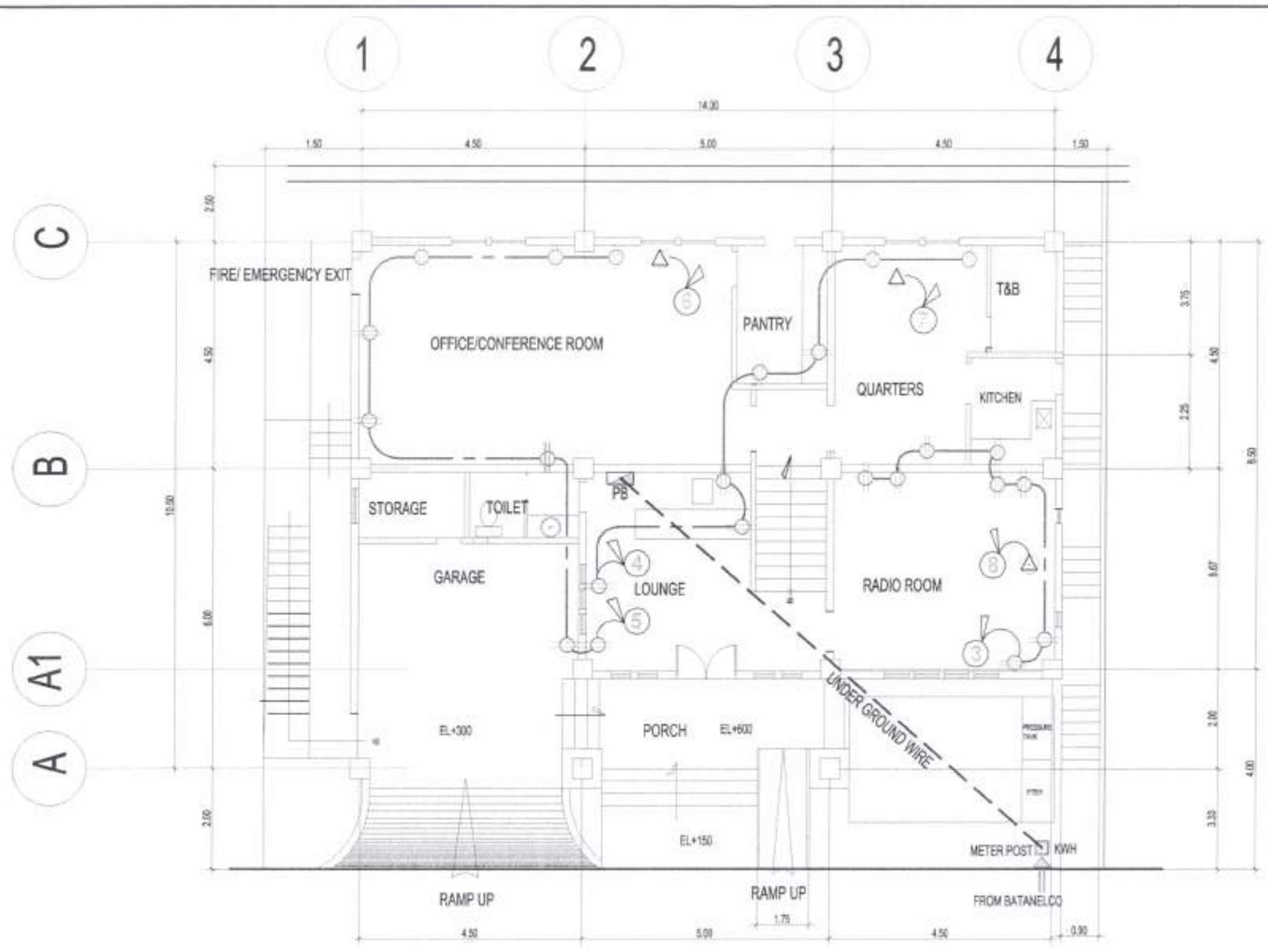
APPROVED: [Signature]
GILBERTO C. LOMBAO
DISTRICT ENGINEER

EET NO.: [Blank]
SHEET NO.: [Blank]
E-2
27/41



1 ROOF DECK LIGHTING PLAN
E-3 SCALE 1:60 MTS.

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 7 BATANGAS DISTRICT ENGINEERING OFFICE BRGY. KATAYNUGAN, SAN ISIDRO, BATANGAS	PROJECT NAME AND LOCATION LOCAL PROGRAM: Local Infrastructure Program Buildings and other Structures, Multi-Purpose Facilities CONSTRUCTION OF PADAGA BUILDING TINGLAT, BATANGAS	SHEET CONTENTS ROOF DECK LIGHTING PLAN	DRAFTED 	REVIEWED AS TO DESIGN CONCEPT 	SUBMITTED 	RECOMMENDED 	APPROVED 	SHEET NO. E-3 28 41
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1
E-4
SCALE 1:60 MTS.

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. 2 BATANES DISTRICT ENGINEERING OFFICE BPOF XAYELUWANG, BAGO, BATANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM: Local Infrastructure Program Buildings and other Structures, Multi-Purpose Facilities CONSTRUCTION OF PRASAR BUILDING</p>	<p>SHEET CONTENTS GROUND / UPPER POWER PLAN</p>	<p>DRAWN BY </p>	<p>REVIEWED BY </p>	<p>SUBMITTED BY </p>	<p>RECOMMENDED BY </p>	<p>APPROVED BY </p>	<p>SHEET NO. E-4 29/41</p>
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SCHEDULE OF LOADS

CKT NO.	LO	CO	SW	LOAD DESCRIPTION	VA	V	A	CIRCUIT PROTECTION	SIZE OF CONDUCTOR	SIZE OF CONDUIT
1	13		13		1,300	230	5.65 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
2	12		10		1,200	230	5.21 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
3		8			1,600	230	6.95 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
4		7			1,400	230	6.08 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
5		8			1,600	230	6.95 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
6		1		1-2.5HP ACU	2,532.3	230	11.01 A	30 AT	2-NO. 5.5MM ² THHN, CU, WIRE 1-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
7		1		1-1.0 HP ACU	1,012.00	230	4.40 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE 1-NO. 2.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
8		1		1-2.0 HP ACU	2,026.3	230	8.80 A	30 AT	2-NO. 5.5MM ² THHN, CU, WIRE 1-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
9	10		2		1,000	230	6.52 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
10	SPARE			LOAD	1,500	230	6.52 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
11	SPARE			LOAD	1,500	230	6.52 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
12	SPARE			LOAD	1,500	230	6.52 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
TOTAL	35	26	25						2-NO. 3.5MM ² THHN, CU, WIRE	

COMPUTATION:

General Lighting Load 147X =4,116.00 VA
 Small Appliances Load 28 =4,600.00 VA
 Total Computed Load w/o Fixed Load =8,716.00 VA

APPLICATION OF DEMAND FACTOR

First 3,000.00 VA @ 100% D.F. =3,000.00 VA
 Next 5,716.00 VA @ 35% D.F. =2,000.00 VA
 Add 1-2.5 HP ACU @ 100% D.F. + 25%(2532.30) =3,165.37 VA
 1-2.0 HP ACU @ 100% D.F. =2,026.30 VA
 1-1.0 HP ACU @ 100% D.F. =1,012.00 VA
 3 spare load @ 80% D.F. =3,600.00 VA

Total Computed Load w/ Fixed Load =14,804.27 VA

Total Computed Current FT =14,804.27 VA
 230
 =64.36 Amperes

FOR DISCONNECTING MEANS;

USE:

One. 100AT, 2P, Bolt-on type circuit breaker
 For main service entrance computer;

USE:

2- # 30MM², THHN, CU, WIRE IN A
 32MM Ø RSC PIPE SCHEDULE 40



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 REGIONAL OFFICE NO. 5
 BATANES DISTRICT ENGINEERING OFFICE
 BRGY. KAPALUSAMAN, SANGU, BATANES

PROJECT NAME AND LOCATION
 LOCAL PROGRAM: Local Infrastructure Program
 Buildings and other Structures: Multi-Purpose Facilities
 CONSTRUCTION OF PAGASA BUILDING

(DRAWN BY) SHIMES

DRAWN CONTENTS
 SCHEDULE OF LOADS
 COMPUTATION

DRAWN

DESIGNED
 CHECKED
 REVIEWED

REVIEWED AS TO DESIGN CONCEPT

APPROVED
 SUBMITTED

SUBMITTED

RECOMMENDED
 APPROVED

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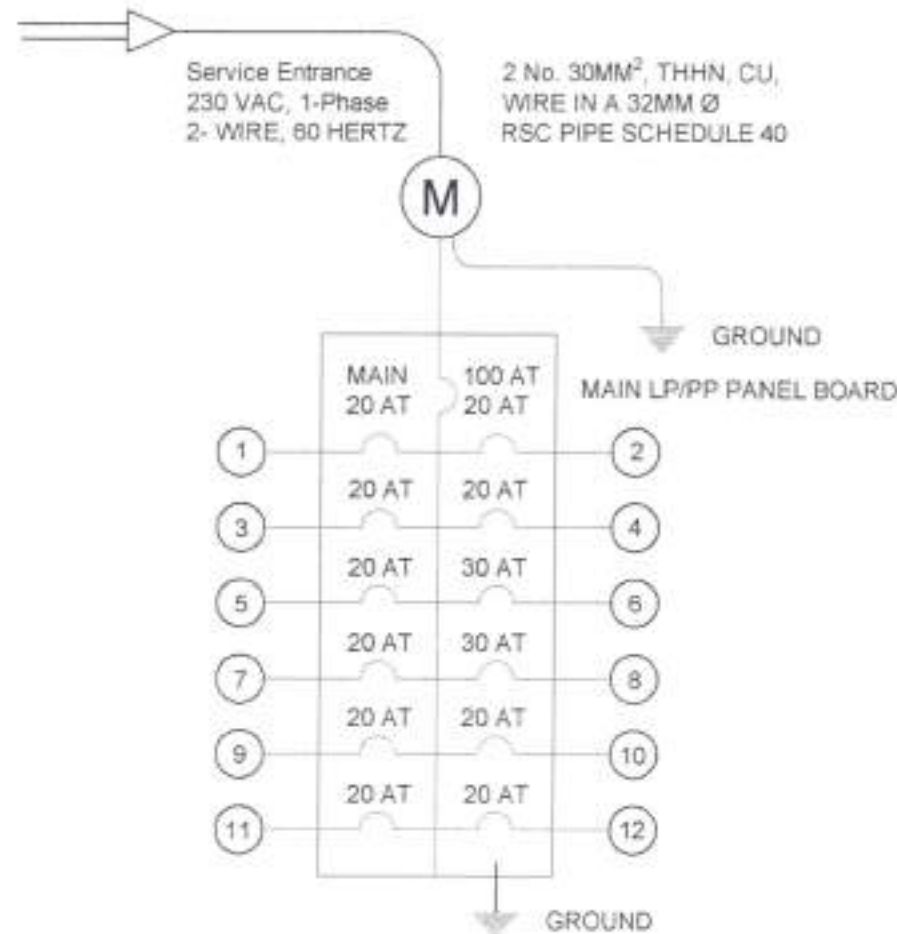
E-5
 30/41

GENERAL NOTES

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS/ PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), PART I, THE RULES AND REGULATION OF POWER COMPANY AND THE REQUIREMENTS OF THE LOCAL AUTHORITY CONCERNED.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER AS A DULY REGISTERED MASTER ELECTRICIAN.
3. THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE, 230V AC, 60Hz.
4. WIRING METHOD SHALL BE AS FOLLOWS:
a. FEEDERS AND RISERS - INTERMEDIATE METALLIC CONDUIT
b. LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
BRANCH CIRCUIT, & AUXILIARY SCH. 40.
5. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mm Ø TRADE/NOMINAL SIZE.

6. ALL OUTLET BOXES SHALL BE GALVANIZED GAUGE NO. 16 DEEP TYPE WITH WITH FACTORY KNOCKOUTS.
7. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
8. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
9. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
a. LIGHT SWITCH - 1.20 Meter ABOVE FINISH FLOOR
b. CONVENIENCE OUTLET - 0.30 Meter ABOVE FINISH FLOOR
c. PANEL BOARD - 1.50 Meter ABOVE FINISH FLOOR
d. FIRE ALARM STATION OUTLET - 1.50 Meter ABOVE FINISH FLOOR
e. PUSH BUTTON OUTLET - 1.20 Meter ABOVE FINISH FLOOR
f. FIRE ALARM & VIBRATING BELL - 0.30 Meter BELOW CEILING LINE

RISER DIAGRAM



LEGEND:

- CEILING LIGHT OUTLET
- S1 ONE GANG DEVICE SWITCH
- S2 TWO GANG DEVICE SWITCH
- S3 THREE GANG DEVICE SWITCH
- S3W THREE WAY DEVICE SWITCH
- Sf FAN CONTROL SWITCH

- RACEWAY CONDUIT CONCEALED IN CEILING
- RACEWAY CONDUIT CONCEALED UNDER FLOOR
- PANEL BOARD
- CIRCUIT BREAKER

- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE
- REFRIGERATOR CONVENIENCE OUTLET, GROUNDING TYPE
- RANGE CONVENIENCE OUTLET, GROUNDING TYPE
- RANGE CONVENIENCE OUTLET, GROUNDING TYPE
- HOMERUN DIRECT TO PANEL BOARD
- SERVICE METER
- SERVICE ENTRANCE
- AIR CONDITIONING UNIT



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
SARANES DISTRICT ENGINEERING OFFICE
BRIGAD GENERAL SERRANO, SARANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM - Local Infrastructure Program
Buildings and other Structures: Multi-Purpose / Facilities
CONSTRUCTION OF PAGASA BUILDING

ISSUED: 2020/01/01

SHEET CONTENTS
RISER DIAGRAM
GENERAL NOTES
LEGEND

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DATE: 2020/01/01

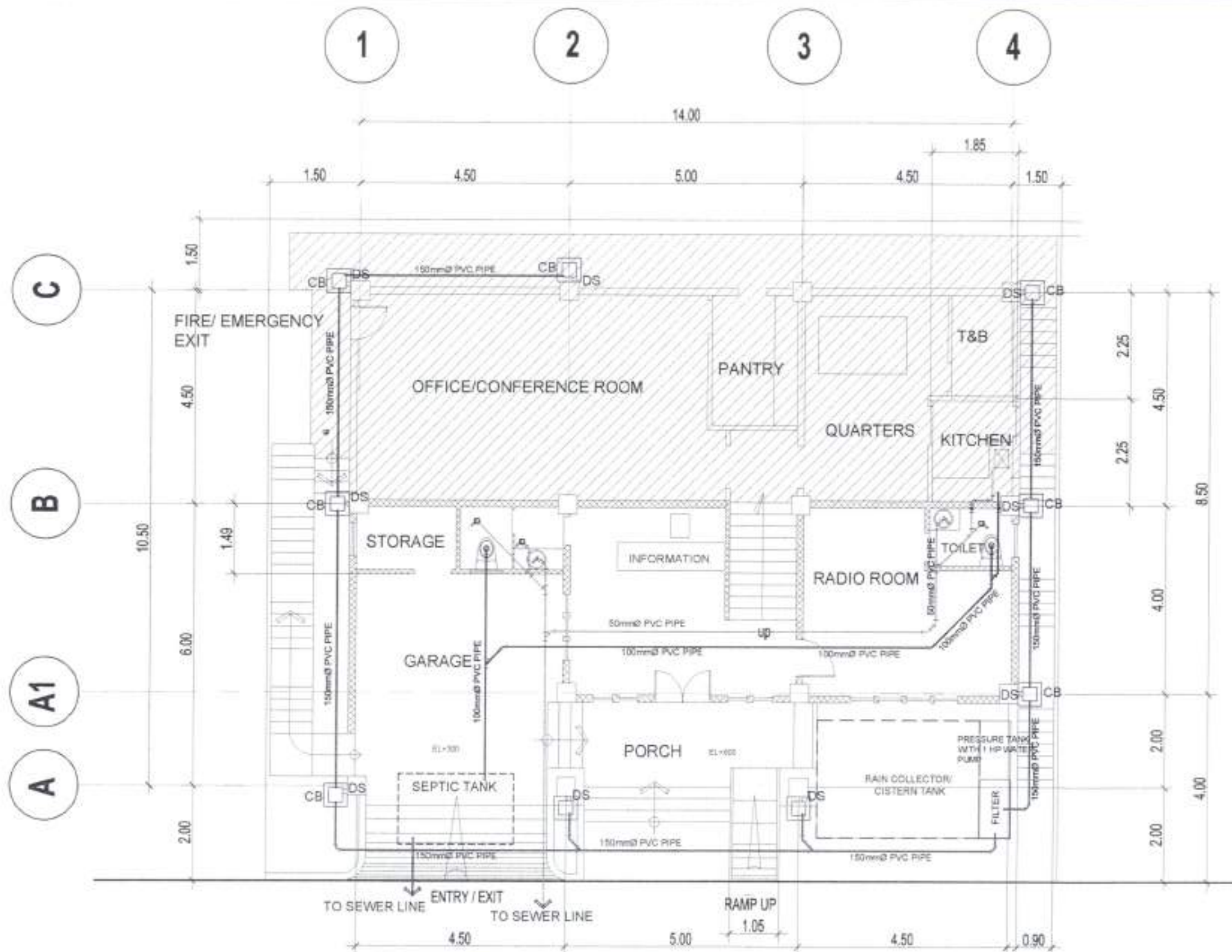
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DATE: 2020/01/01

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DATE: 2020/01/01

RECOMMENDED BY: [Signature]
DATE: 2020/01/01

APPROVED BY: [Signature]
DATE: 2020/01/01

SET NO. 1
SHEET NO. 1



1 GROUND FLOOR PLUMBING PLAN
P-1 SCALE

1:20 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANGAS DISTRICT ENGINEERING OFFICE
BAYAN KATALLISAN, BAYAN, BATANGAS

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
Buildings and other Structures: Multi-Purpose / Facilities
CONSTRUCTION OF PRIMA BUILDING
TAYAS, BATANGAS

SHEET CONTENTS
GROUND FLOOR PLUMBING PLAN

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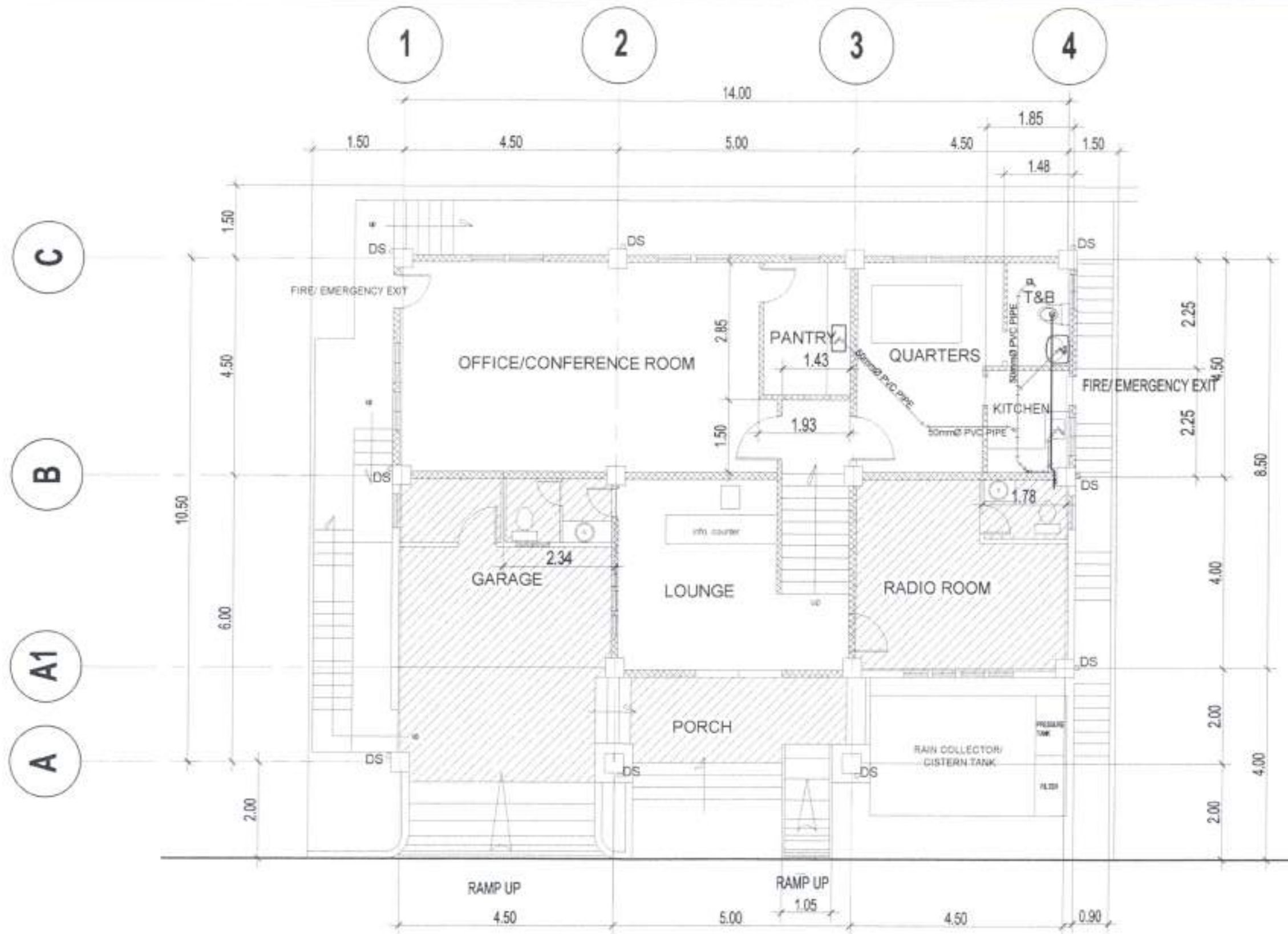
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APPROVED BY: [Signature]

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

SET NO. 1
SHEET NO. 1
P-1
32 / 41



1 UPPER LEVEL PLUMBING PLAN
P-2 SCALE 1:60 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 3
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KATANGULAN, BACOR, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
Buildings and other Structures: Multi-Purpose / Public
CONSTRUCTION OF PANGRA BUILDING

PROJECT NUMBER

SHEET CONTENTS
UPPER LEVEL PLUMBING PLAN

DESIGNED BY
CHECKED BY
APPROVED BY

REVIEWED BY
DATE

SUBMITTER
DATE

RECOMMENDED BY
DATE

APPROVED BY
DATE

SHEET NO.
P-2
33 41




REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KAYVALUGANAN, BASCO, BATANES

C.Y. 2022 PROJECT
DETAILED ENGINEERING DESIGN PLAN FOR

**LOCAL PROGRAM: LOCAL INFRASTRUCTURE PROGRAM;
BUILDING AND OTHER STRUCTURES; MULTI-PURPOSE / FACILITIES;
CONSTRUCTION OF (PAGASA) BUILDING**

LOCATION: BRGY.SAN RAFAEL , ITBAYAT , BATANES


SUBMITTED:

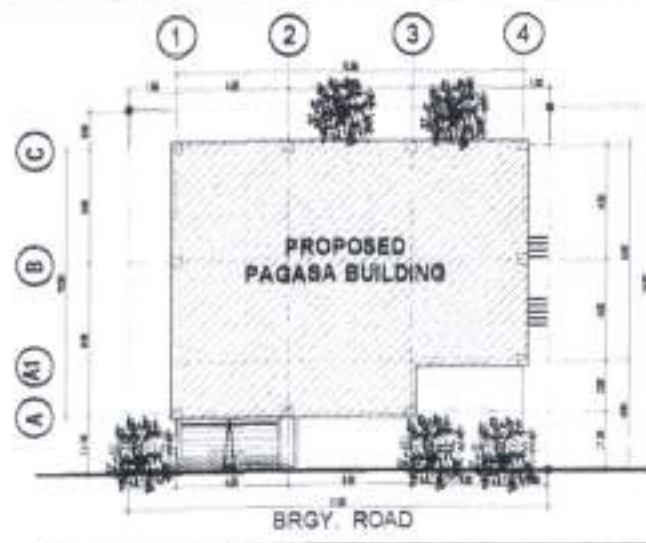
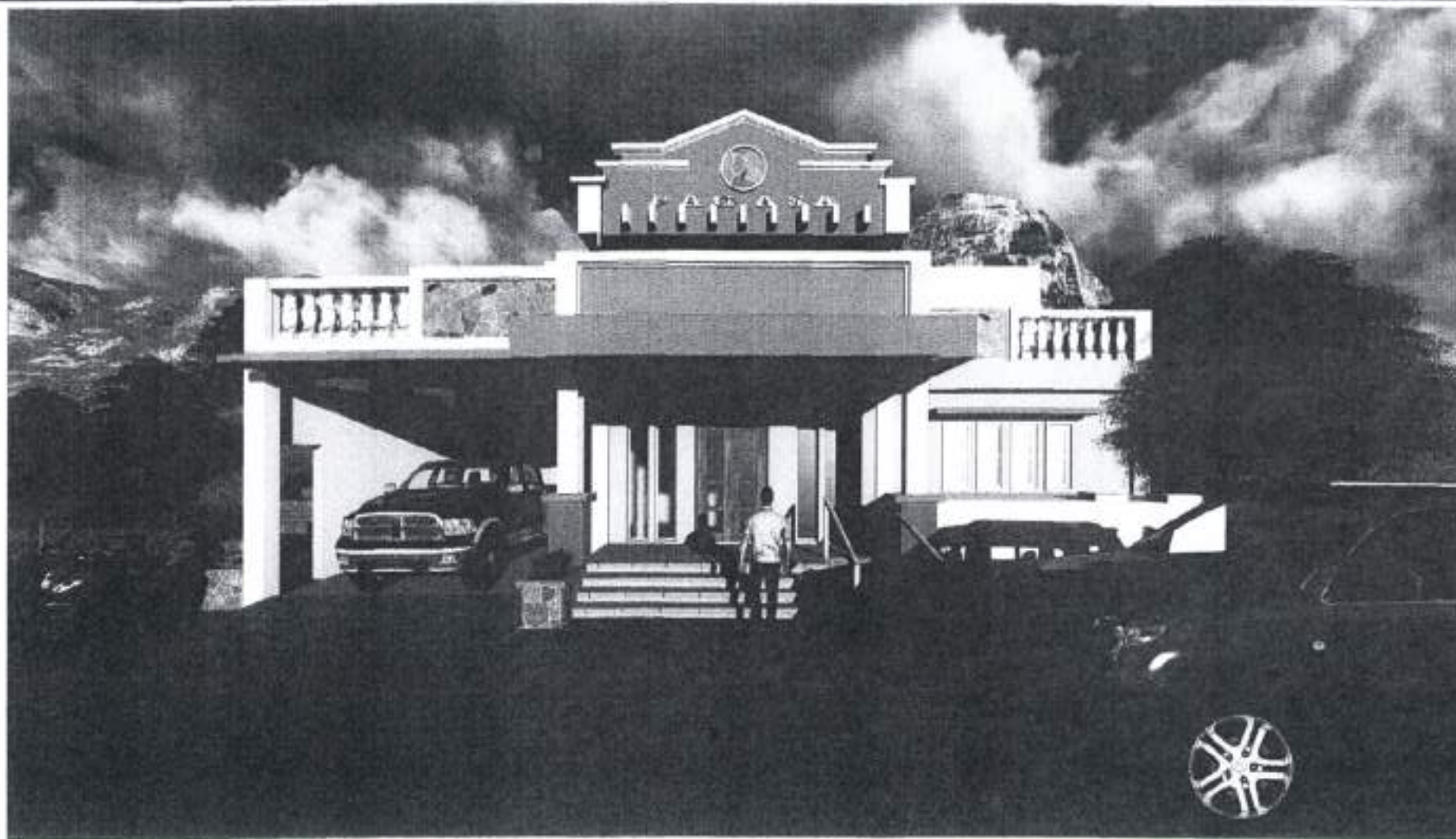

PRUDENCIO V. VALIENTE
CHIEF, PLANNING AND DESIGN SECTION
DATE: _____

RECOMMENDED:


RODERICK V. HORNEDO
OFFICER-IN-CHARGE
OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE: _____

APPROVED


DIOSDADO C. LOMIBAO
OFFICER-IN-CHARGE
OFFICE OF THE DISTRICT ENGINEER
DATE: _____



2 SITE DEVELOPMENT PLAN

1 PERSPECTIVE



3 VICINITY MAP

TABLE OF CONTENTS

1- COVER SHEET

ARCHITECTURAL

- 2- A1- PERSPECTIVE
- 3- A1- VICINITY MAP
- 4- A2- SUMMARY OF QUANTITIES
- 5- A3- LOWER GROUND FLOOR PLAN
- 6- A4- UPPER LEVEL FLOOR PLAN
- 7- A5- ROOF DECK PLAN
- 8- A6- FRONT ELEVATION
- 9- A7- LEFT SIDE ELEVATION
- 10- A8- RIGHT SIDE ELEVATION
- 11- A9- SECTION THRU - A
- 12- A10- SECTION THRU - B
- 13- A11- SCHEDULE OF DOORS & WINDOWS

STRUCTURAL

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- 22- S12- GENERAL NOTES
- 23- S13- GENERAL NOTES
- 24- S14- FOUNDATION PLAN
- 25- S15- SCHEDULE OF COLUMNS
- 26- S16- UPPER GROUND FRAMING PLAN
- 27- S17- SECOND FLOOR FRAMING PLAN
- 28- S18- ROOF DECK FRAMING PLAN
- 29- S19- SCHEDULE OF BEAMS
- 30- S20- TYPICAL BEAM DETAIL
- 31- S21- TYPE OF BEAM STIRRUPS
- 32- S22- SCHEDULE OF SLABS
- 33- S23- TYPICAL SLAB DETAIL
- 34- S24- TYPICAL STAIR SECTION DETAILS

ELECTRICAL

- 2- E1- GROUND FLOOR LIGHTING PLAN
- 3- E2- UPPER LEVEL LIGHTING PLAN
- 4- E3- LOWER GROUND FLOOR PLAN
- 5- E4- UPPER LEVEL FLOOR PLAN
- 6- E5- ROOF DECK PLAN
- 7- E6- FRONT ELEVATION
- 8- E7- LEFT SIDE ELEVATION
- 9- E8- RIGHT SIDE ELEVATION

PLUMBING

- 2- P1- GROUND FLOOR PLUMBING PLAN
- 3- P2- UPPER LEVEL PLUMBING PLAN
- 4- P3- ROOF DECK PLUMBING PLAN
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- 8- P7- GROUND FLOOR ISOMETRIC PLAN
- 9- P8- UPPER LEVEL ISOMETRIC PLAN
- 10- P9- SEPTIC TANK DETAIL
- 11- P10- CISTERN TANK

REPUBLIC OF THE PHILIPPINES
MUNICIPALITY OF BAYAN
BAYAN, BAYAN, BAYAN

LAND USE & ZONING

LINE & GRADE

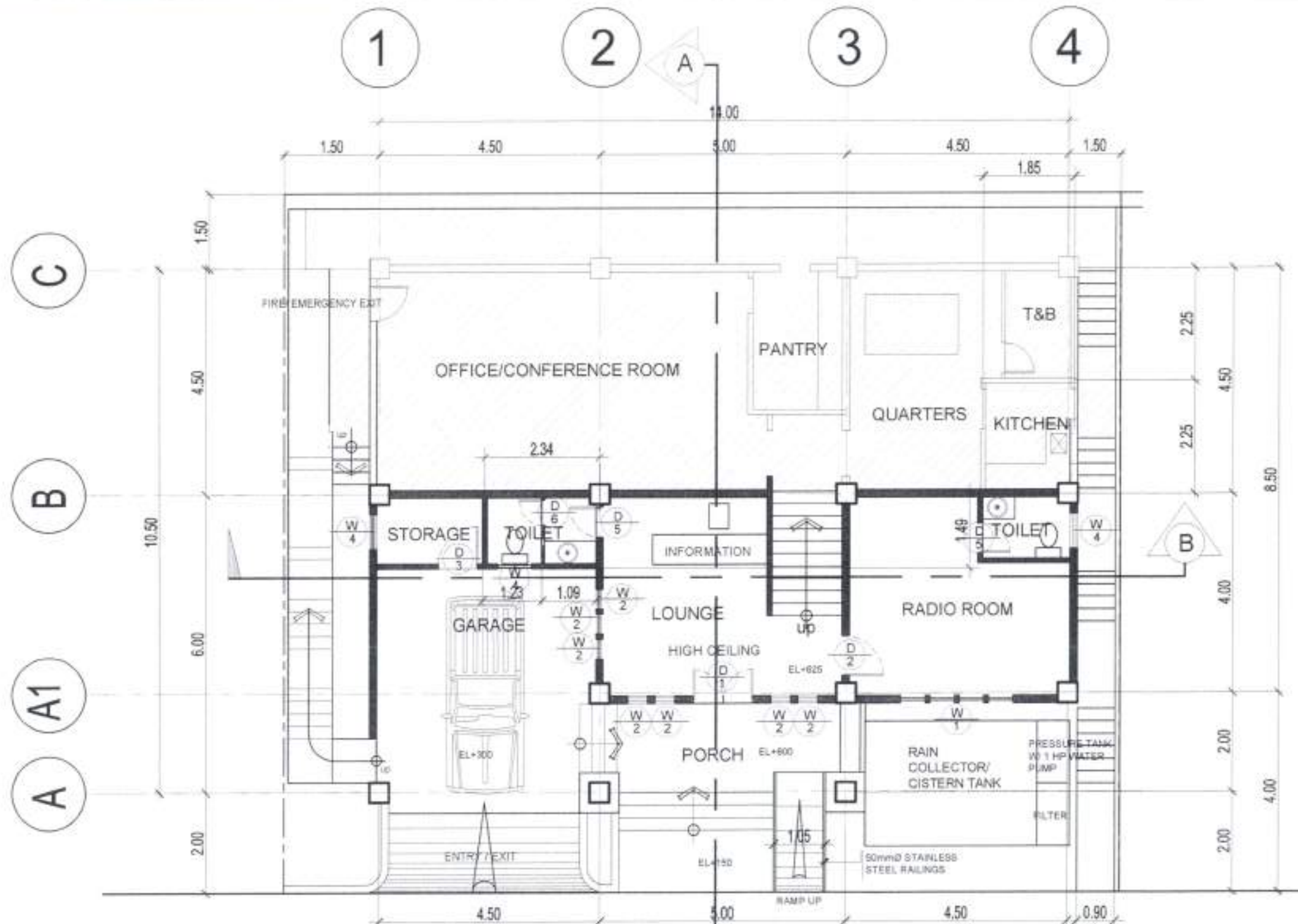
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STRUCTURAL

SANITARY

ELECTRICAL

MECHANICAL



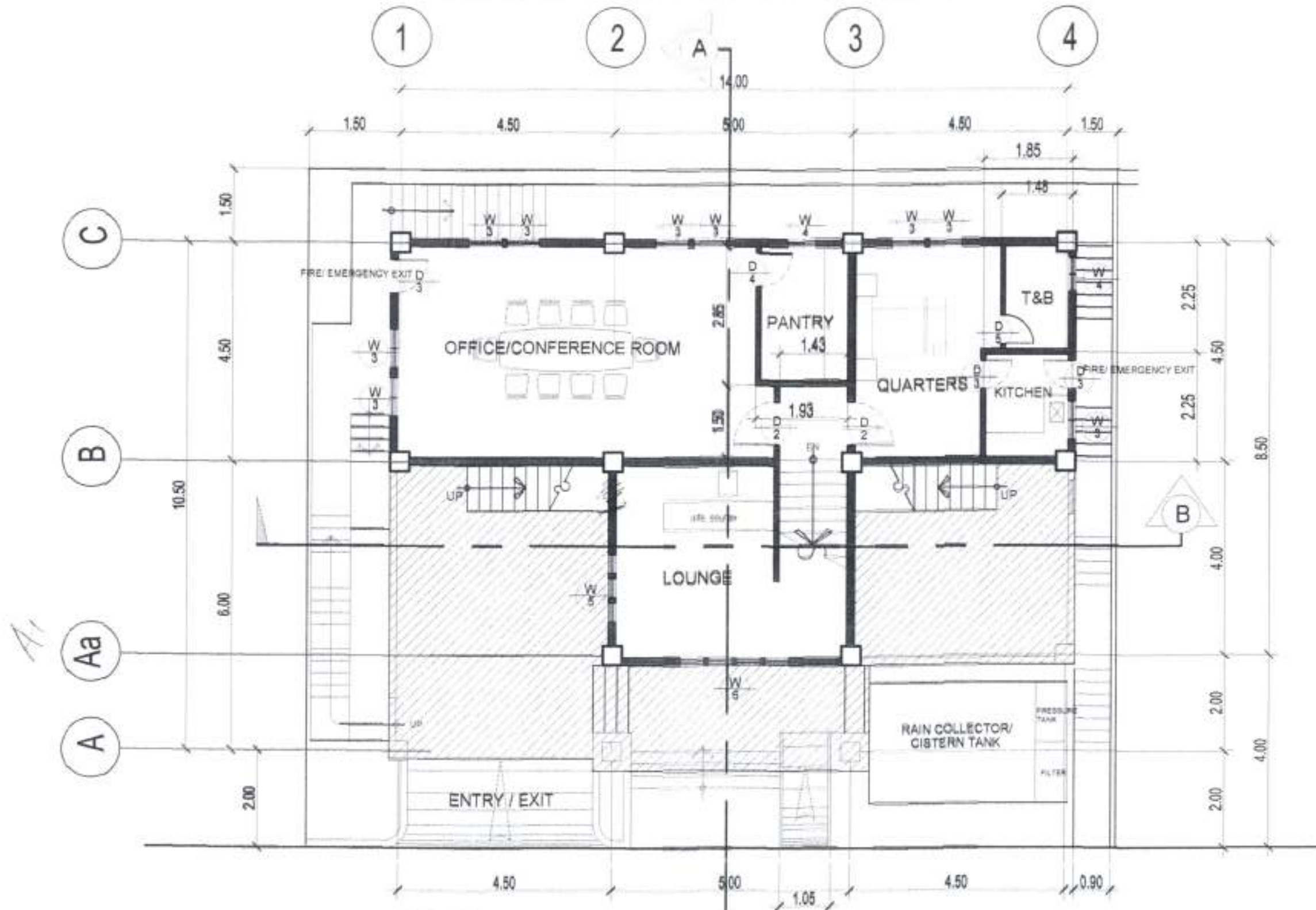
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A-3

GROUND FLOOR PLAN

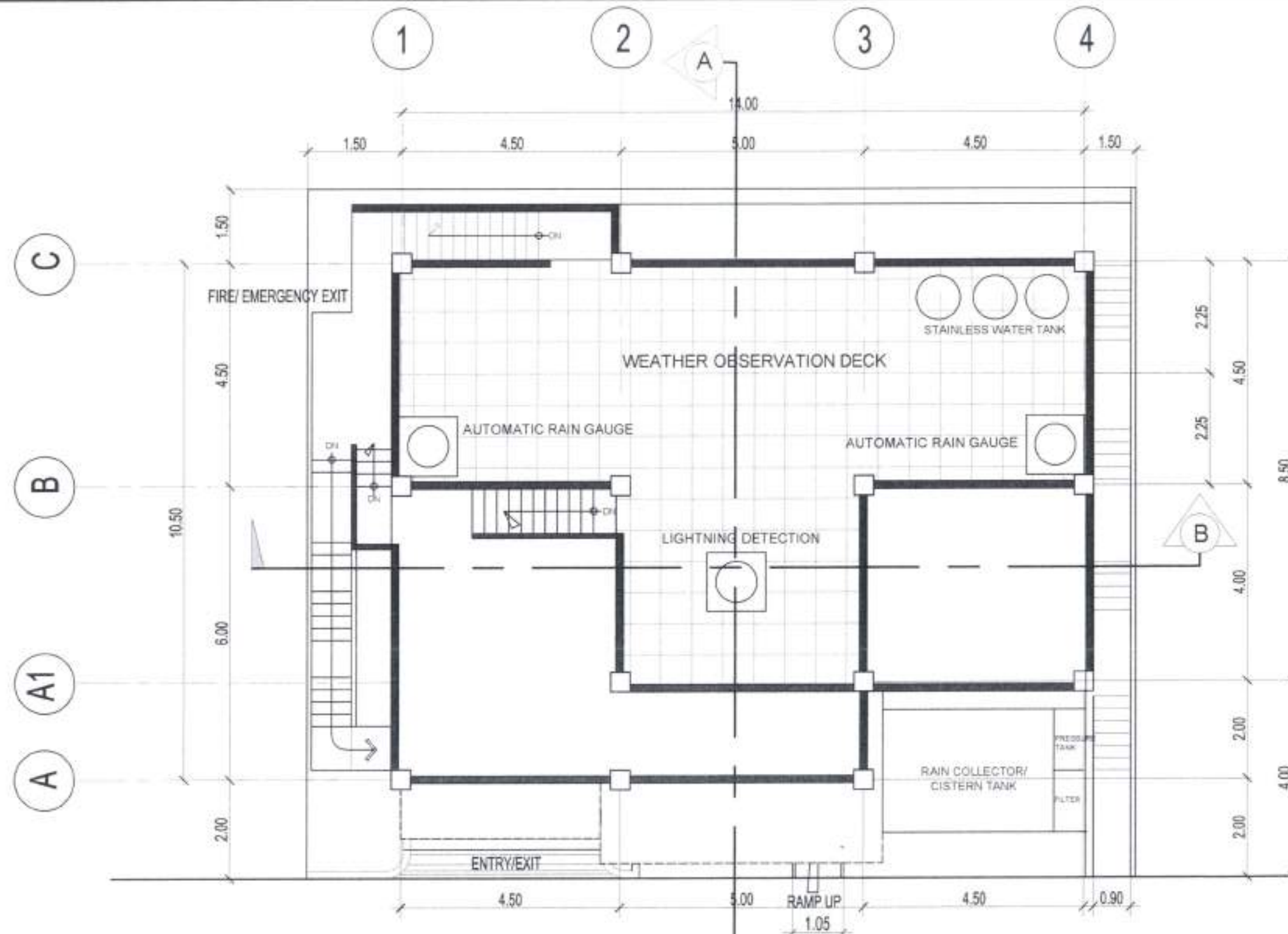
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 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. 2 BATANGAS DISTRICT ENGINEERING OFFICE BRD. KATALLUGAN, BANGAL, BATANGAS</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM: Local Infrastructure Program Buildings and other Structures: Multi-Purpose/Facilities CONSTRUCTION OF PAGASA BUILDING</p>	<p>SHEET CONTENTS GROUND FLOOR PLAN</p>	<p>DESIGNED BY STENO G. GARCIA CHECKED BY [Signature] APPROVED BY [Signature]</p>	<p>REVIEWED AS TO DESIGN CONCEPT [Signature] [Signature]</p>	<p>SUBMITTED BY [Signature]</p>	<p>RECOMMENDED [Signature] RODOLFO V. MORONDO REGISTERED PROFESSIONAL ENGINEER</p>	<p>APPROVED [Signature] RODOLFO V. MORONDO REGISTERED PROFESSIONAL ENGINEER</p>	<p>SHEET NO. A-3 SHEET NO. 4/41</p>
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1 UPPER LEVEL
A-4 SCALE 1:60 MTS.



1 ROOF DECK PLAN
A-5 SCALE 1:60 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
8901 ARAPOGASAN, BAYOL, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
Buildings and other Structures: Multi-Purpose (Parish)
CONSTRUCTION OF PRADA BUILDING

PROJECT NAME

SHEET CONTENTS
ROOF DECK PLAN

DRAWN

[Signature]
STEVEN VALMONT
DRAWING ENGINEER

APPROVED AS TO DESIGN CONCEPT

[Signature]
JULIUS TENDON V. SANTOS
ARCHITECT

SUBMITTED

[Signature]
THEO B. MANALO
ARCHITECT

RECOMMENDED

[Signature]
RODRICK V. HERNANDEZ
CIVIL ENGINEER

APPROVED

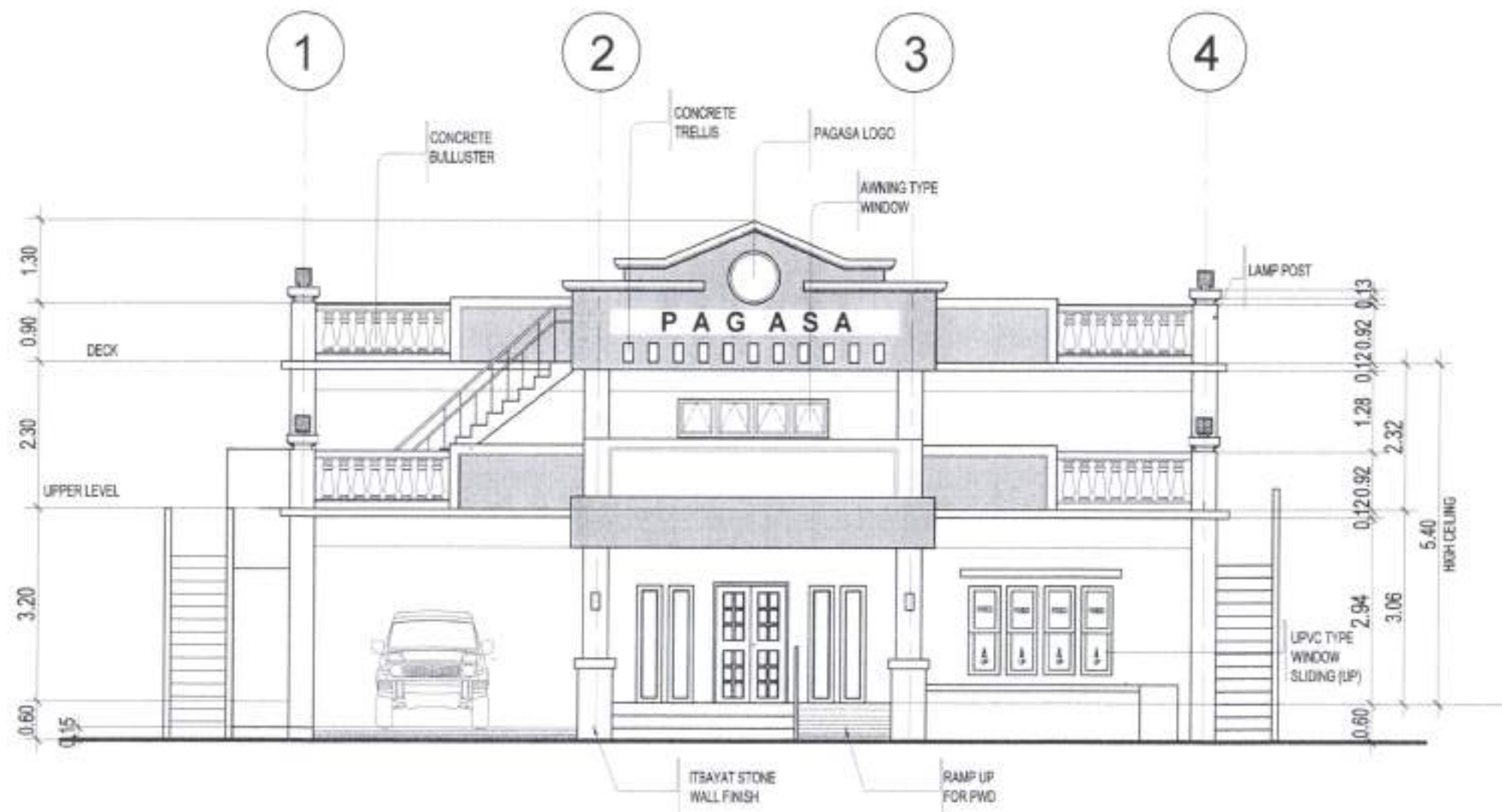
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GUARDIAN C. LOMBAO
REGISTERED PROFESSIONAL ENGINEER

SHEET NO.

6

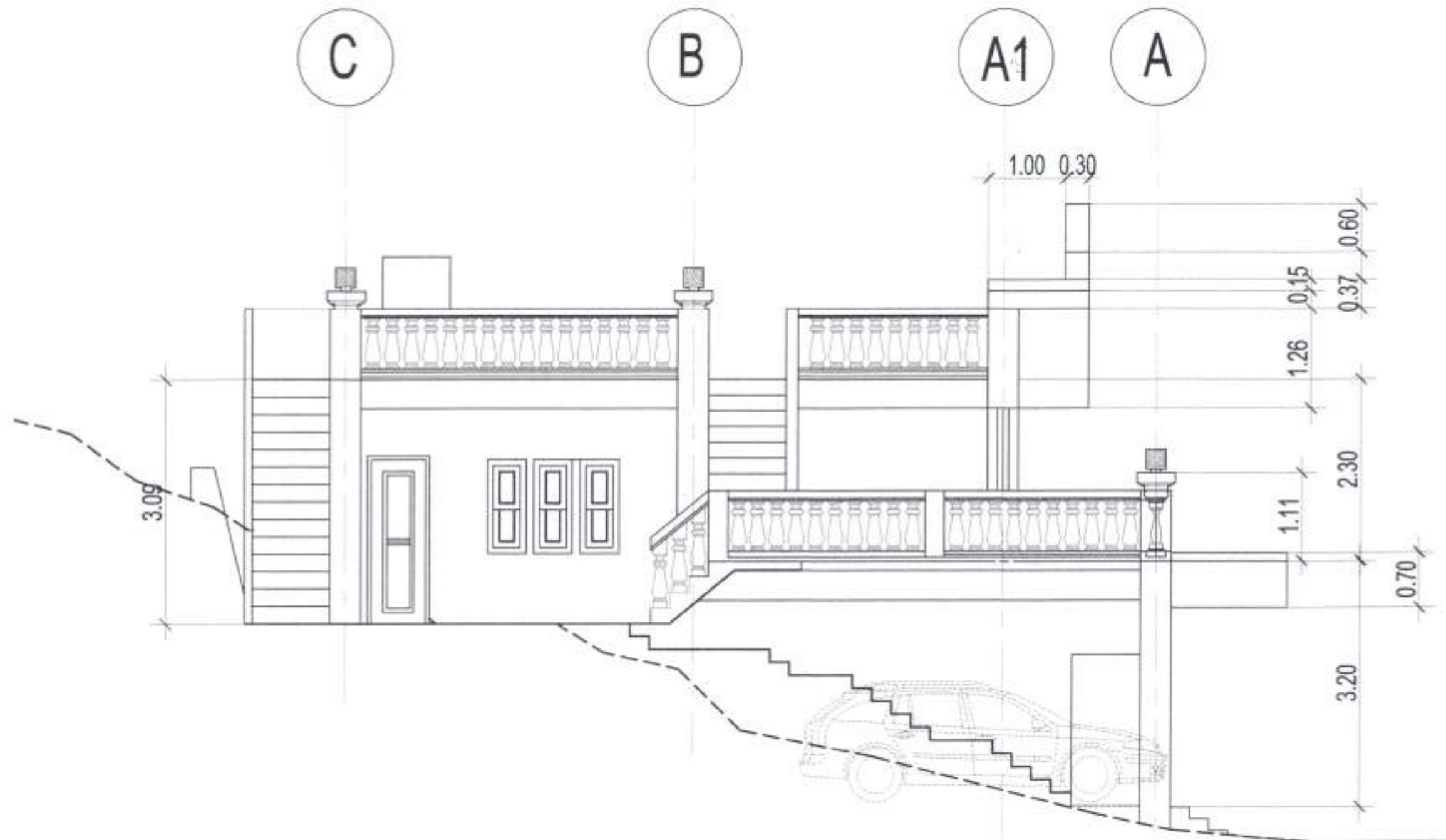
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A-5
6 41



1 FRONT ELEVATION
A-6 SCALE 1:60 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 7 BAYANES DISTRICT ENGINEERING OFFICE BAYAN ANTAYALLIGAN, BAYAN, BAYANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM Local Infrastructure Program Buildings and other Structures, Multi-Purpose Facilities CONSTRUCTION OF PAGASA BUILDING</p> <p>PROJECT NO. 123456</p>	<p>SHEET CONTENTS FRONT ELEVATION</p>	<p>DRAWN </p>	<p>REVIEWED AS TO DESIGN CONCEPT </p>	<p>SUBMITTED </p>	<p>RECOMMENDED </p>	<p>APPROVED </p>	<p>SET NO. 1 SHEET NO. 1 A-6 7 41</p>
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1
A-7

LEFT SIDE ELEVATION

SCALE

1:60

MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
8407 KAYUNLOMAN, BASCO, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM Local Infrastructure Program
Bulwer and other Structures Multi-Purpose Facility
CONSTRUCTION OF PADABA BUILDING

DESIGNER: SATWIS

SHEET CONTENTS
LEFT SIDE ELEVATION

DRAFTED

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CHECKED BY: *[Signature]*
REVIEWED BY: *[Signature]*

DESIGNED BY: *[Signature]*

REVIEWED AS TO DESIGN CONCEPT

DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
REVIEWED BY: *[Signature]*

DESIGNED BY: *[Signature]*

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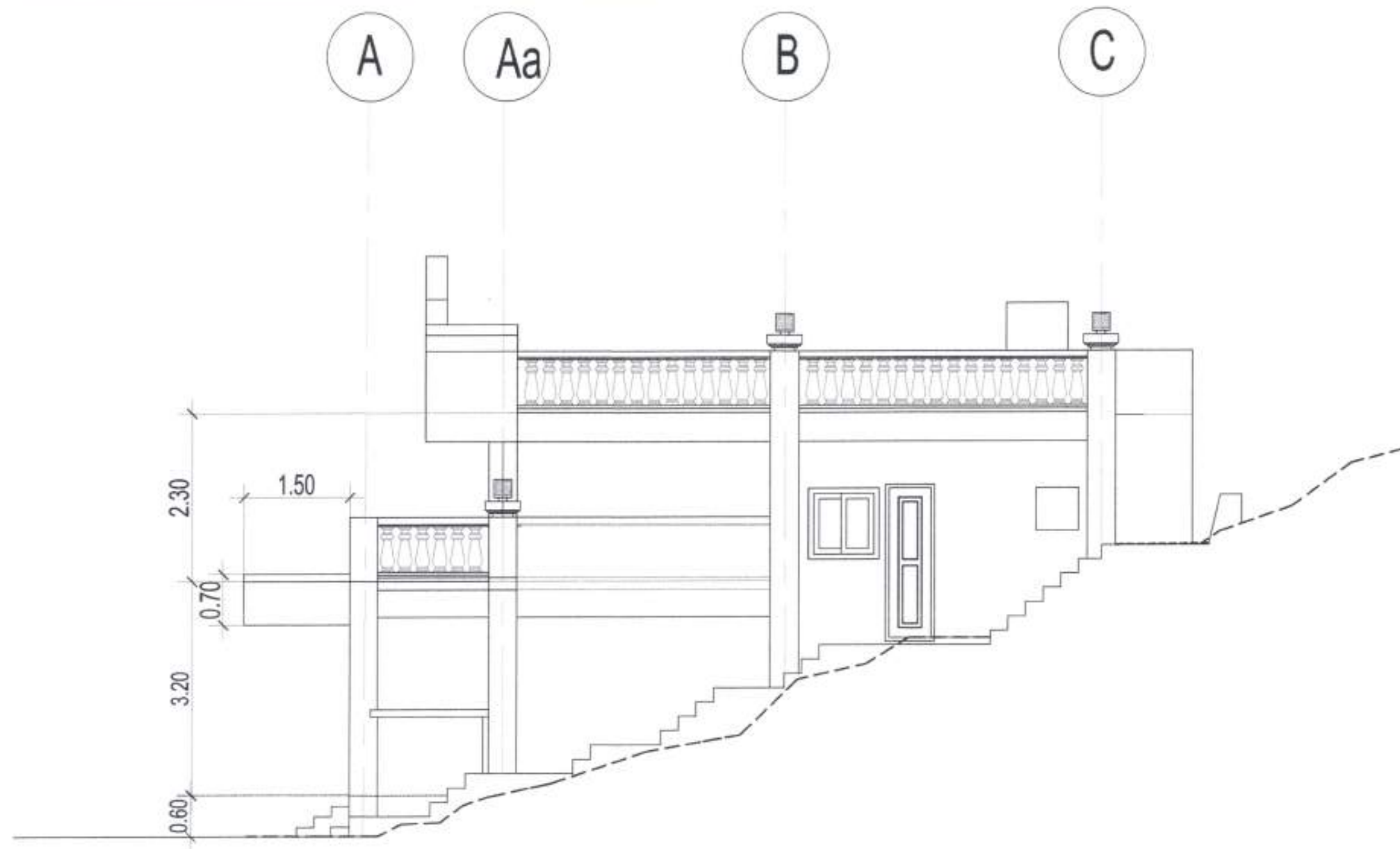
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A-8

RIGHT SIDE ELEVATION

SCALE 1:60 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANGAS DISTRICT ENGINEERING OFFICE
BRGY. KATYALAMAHAN, SILOCO, BATANGAS

PROJECT NAME AND LOCATION
LOCAL PROGRAM Local Infrastructure Program
Buildings and other Structures: Multi-Purpose / Facilities
CONSTRUCTION OF RADESA BUILDING

PROJECT NUMBER

SHEET CONTENTS
RIGHT SIDE ELEVATION

DRAWN BY

ROBIN E. DAVOODS

DATE

REVIEWED AS TO DESIGN CONCEPT

JEFFREY BENJAMIN SAMPAG

DATE

EXAMINED

PRINCE ALVIN SAMPAG

DATE

RECOMMENDED

RODRICK V. HERNANDEZ

DATE

APPROVED

ROSARIO C. LOMBAO

DATE

SHEET NO.

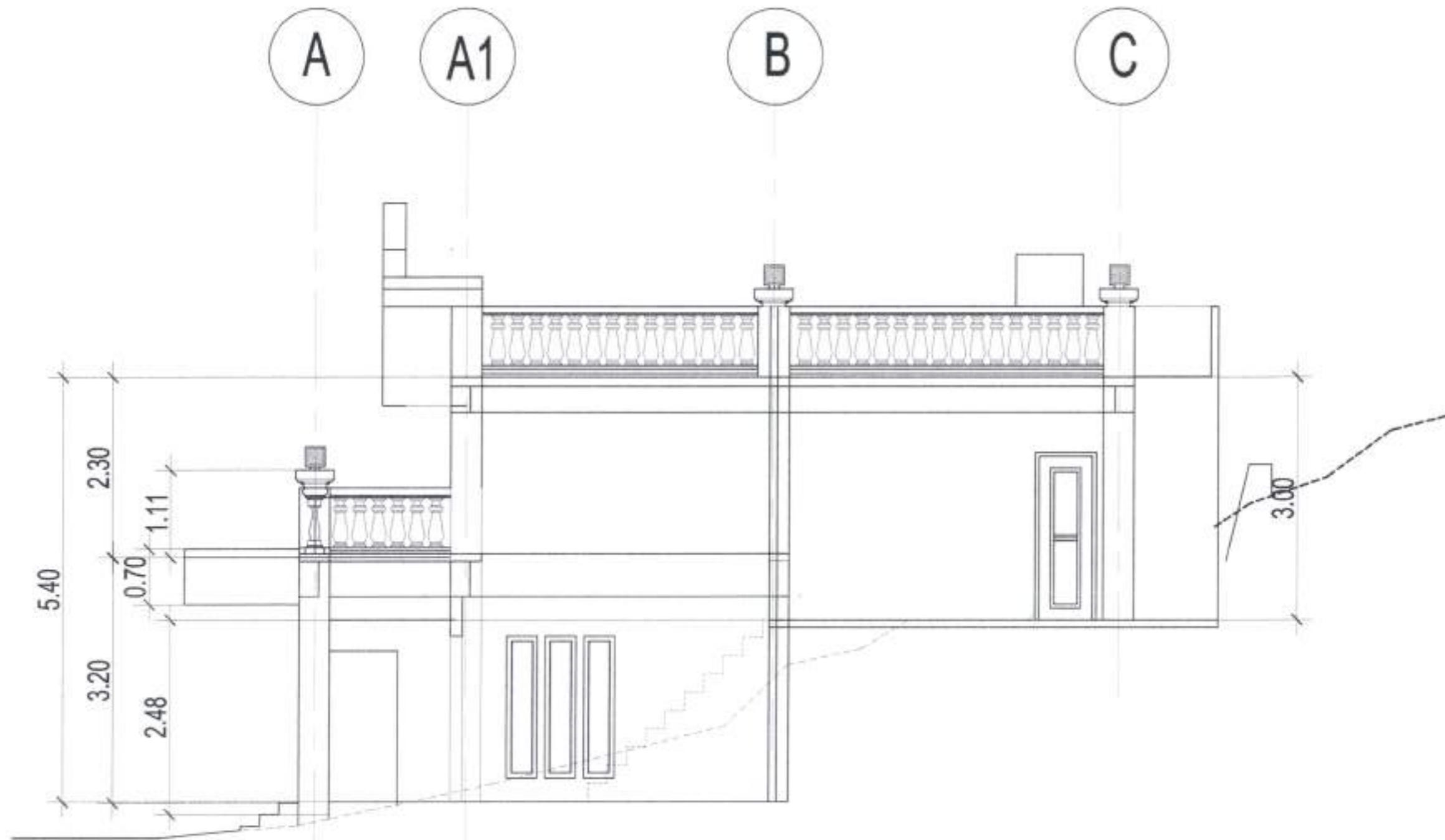
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DATE

SHEET NO.

41

DATE



1
A-9

SECTION THRU-A

SCALE 1:60 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KATHULGARAN, BASCO, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
Buildings and other Structures, Multi-Purpose / Facilities
CONSTRUCTION OF PADANA BUILDING

DESIGN: SATINED

SHEET CONTENTS
SECTION THRU - A

DRAWN BY

[Signature]
STEVEN M. MONTANO
ARCHITECT

REVIEWED AS TO DESIGN CONCEPT

[Signature]
RODRICK V. HORNEO
ARCHITECT

SUBMITTED

[Signature]
RODRICK V. HORNEO
ARCHITECT

RECOMMENDED

[Signature]
RODRICK V. HORNEO
ARCHITECT

APPROVED

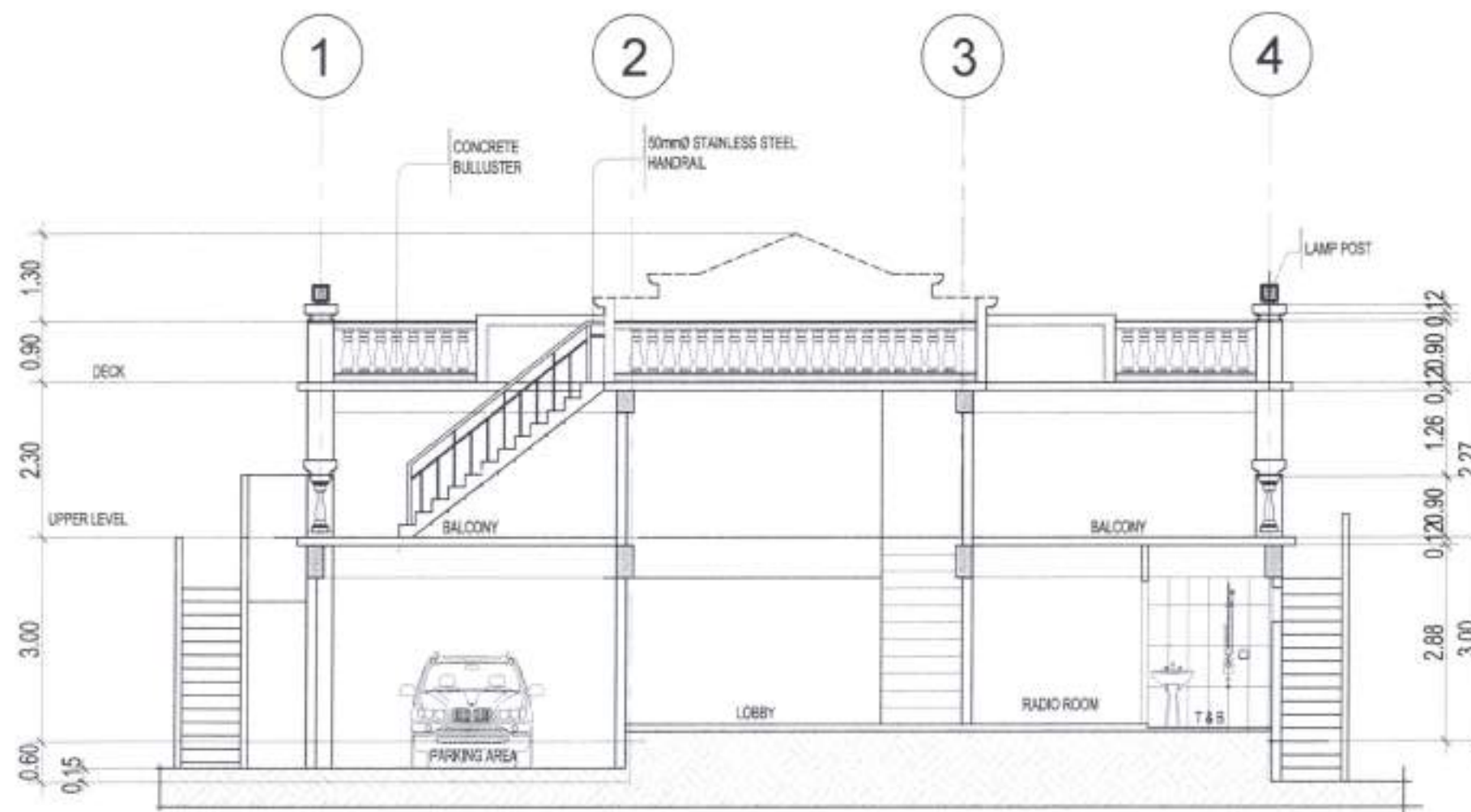
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ARCHITECT

SET NO.

10

SHEET NO.

10



1
A-10

SECTION THRU-B

SCALE 1:60 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KAPPAUSAN, BANGS, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
BUILDING AND OTHER STRUCTURES: Multi-Purpose Facilities
CONSTRUCTION OF IRIGASA BUILDING

DESIGNED BY: BAYANES

SHEET CONTENTS
SECTION THRU - A

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CHECKED BY: *[Signature]*
APPROVED BY: *[Signature]*

REVIEWED AS TO DESIGN CONCEPT

REVIEWED BY: *[Signature]*
DATE: 10/10/2018

SUBMITTED

FOR: *[Signature]*
DATE: 10/10/2018

RECOMMENDED

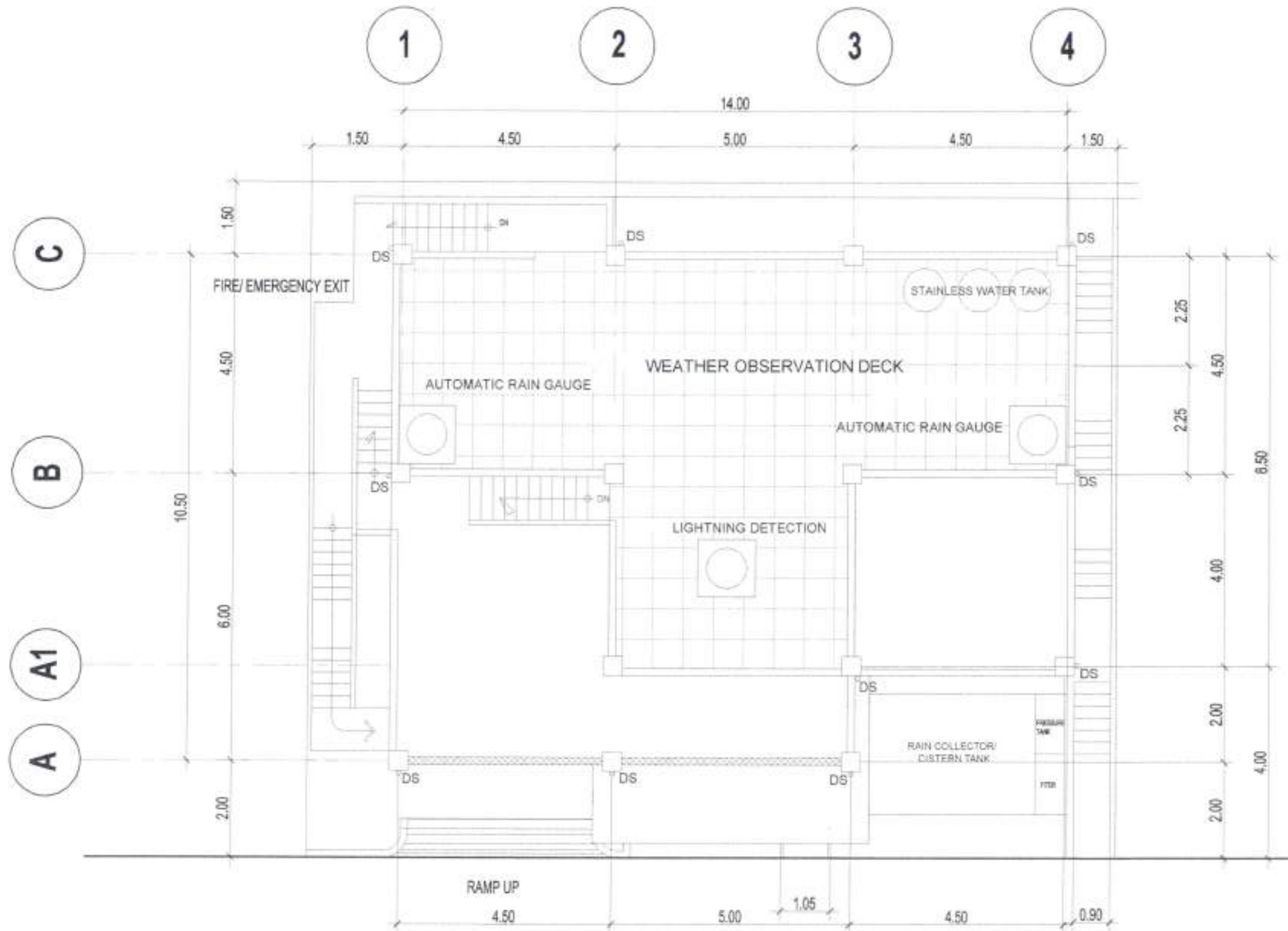
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DATE: 10/10/2018

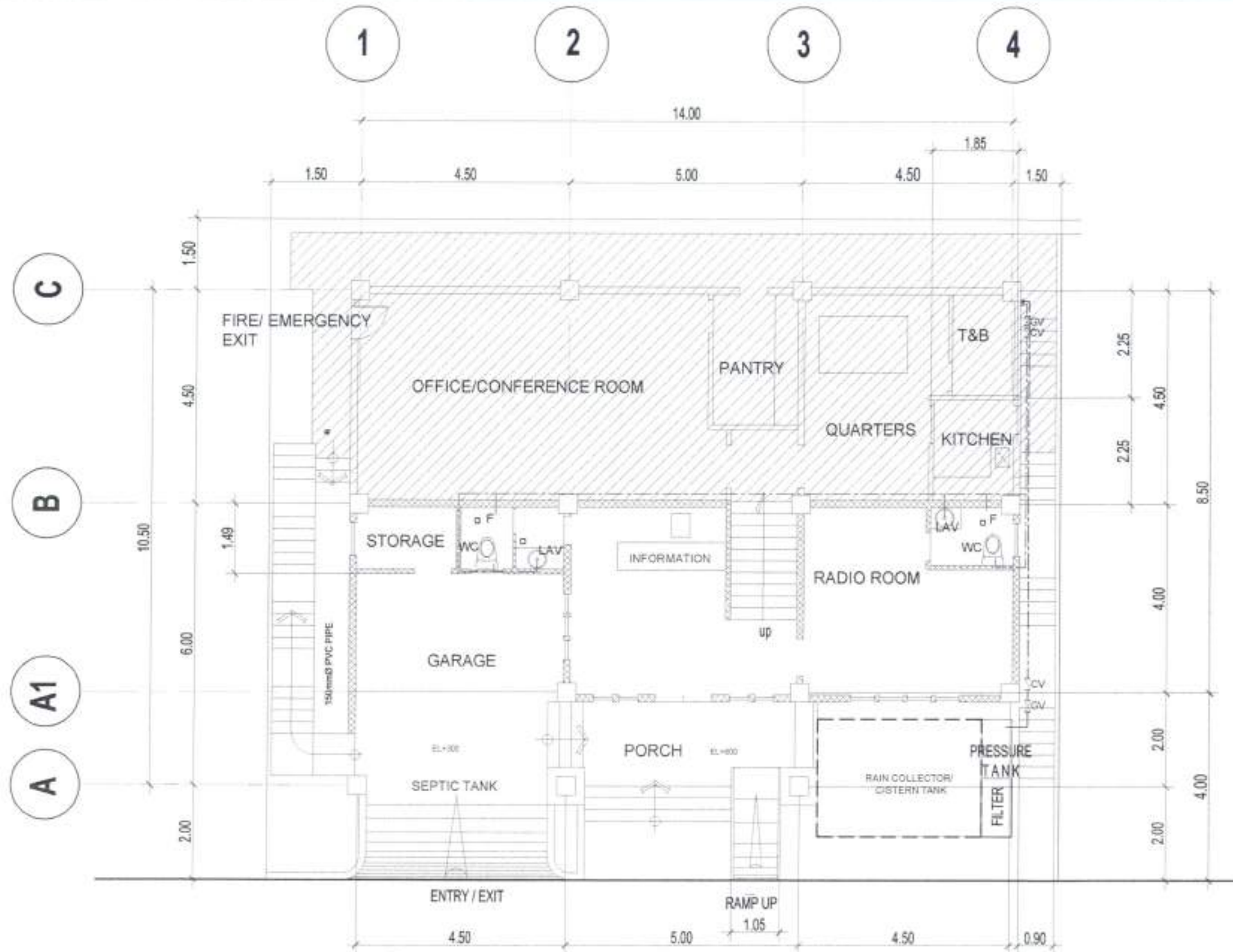
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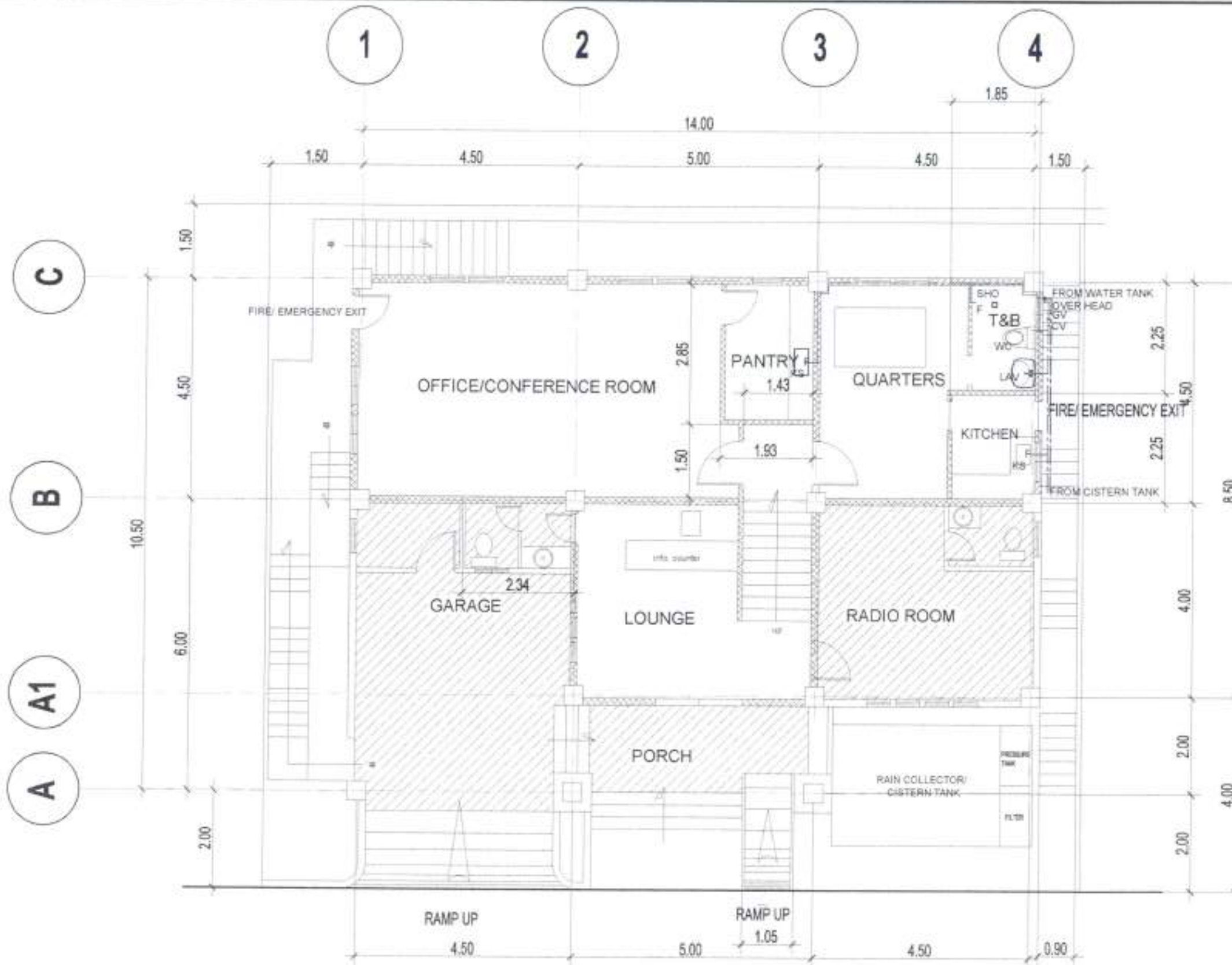


1 ROOF DECK PLUMBING PLAN
P-3 SCALE 1:20 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 3 DANANG DISTRICT ENGINEERING OFFICE BAYAN-KABUKIRAN, BAYAN, DAVAO</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM - Local Infrastructure Program Buildings and other Structures - Multi-Purpose Facilities CONSTRUCTION OF PASAGA BUILDING</p>	<p>SHEET CONTENTS ROOF DECK PLUMBING PLAN</p>	<p>DESIGNED BY  PREPARED BY </p>	<p>REVIEWED BY  MARK Z. [Signature] DATE</p>	<p>SUBMITTED BY  DATE</p>	<p>RECOMMENDED BY  DATE</p>	<p>APPROVED BY  DATE</p>	<p>SHEET NO. P-3 41</p>
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<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 1 BATANES DISTRICT ENGINEERING OFFICE BAYAN APURHAYAN, BACOD, BATANES</p>	<p>PROJECT NAME AND LOCATION: LOCAL PROGRAM: Local Infrastructure Program Buildings and other Structures, Multi-Purpose / Facilities CONSTRUCTION OF AWADA BUILDING</p>	<p>SHEET CONTENTS: GROUND FLOOR WATERLINE PLAN</p>	<p>DRAWN BY: </p>	<p>REVIEWED BY: DESIGN ENGINEER </p>	<p>CHECKED BY: </p>	<p>RECOMMENDED BY: </p>	<p>APPROVED BY: </p>	<p>SHEET NO. P-4 35 41</p>
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1 UPPER LEVEL WATERLINE PLAN
P-5 SCALE 1:60 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 1
BATANES DISTRICT ENGINEERING OFFICE
BAYAN, BAYAN, BATANES

PROJECT NAME AND LOCATION:
LOCAL PROGRAM: Local Infrastructure Projects
Buildings and other Structures: Multi-Purpose Facility
CONSTRUCTION OF PAGASA BUILDING

SHEET CONTENTS:
UPPER LEVEL WATERLINE PLAN

DESIGNED BY:
PROF. MARK A. CHORTE
CHECKED BY:
RODRICK V. HORNEJO

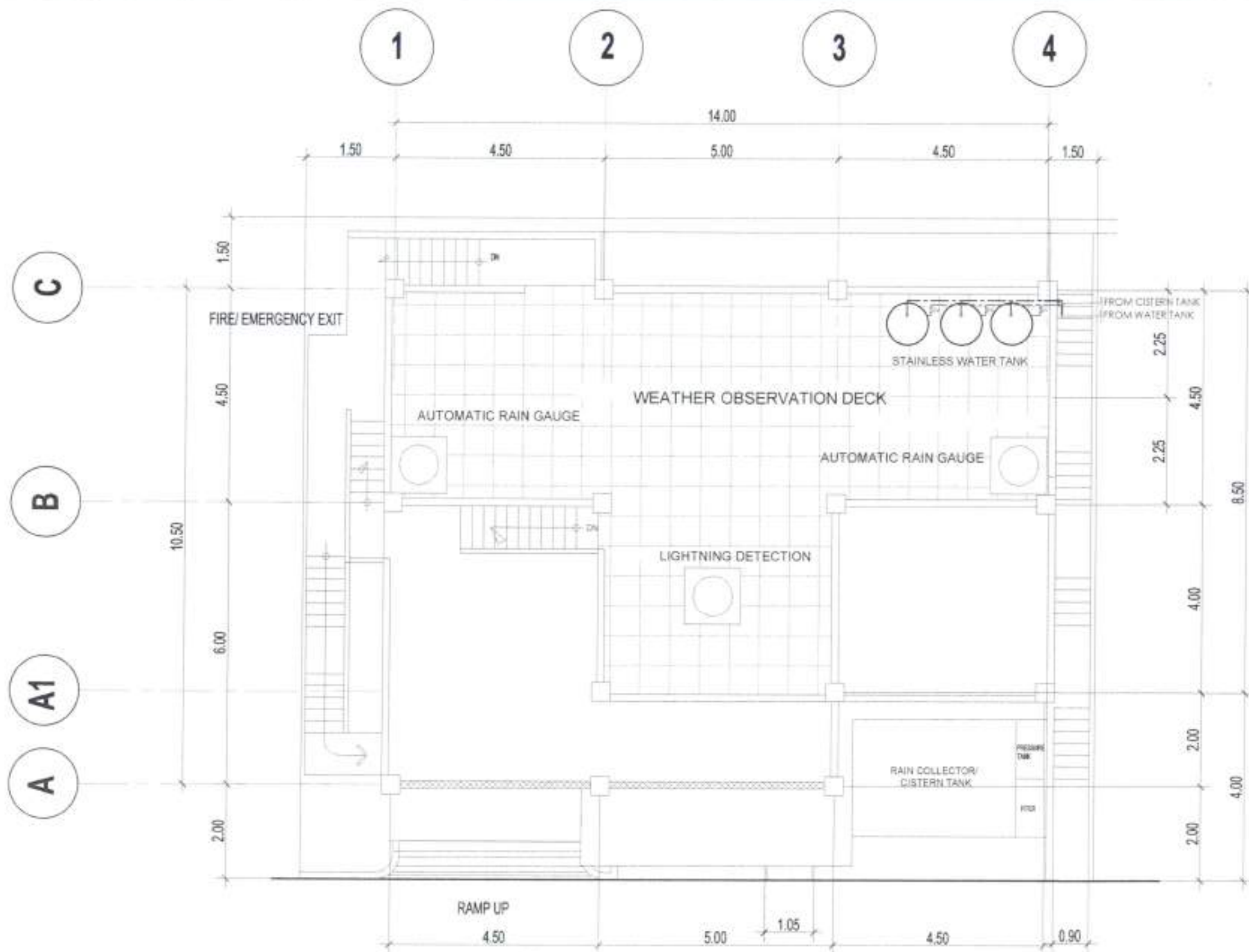
REVIEWED BY:
MARK A. CHORTE
APPROVED BY:
RODRICK V. HORNEJO

DATE:
2018

RECOMMENDED BY:
RODRICK V. HORNEJO

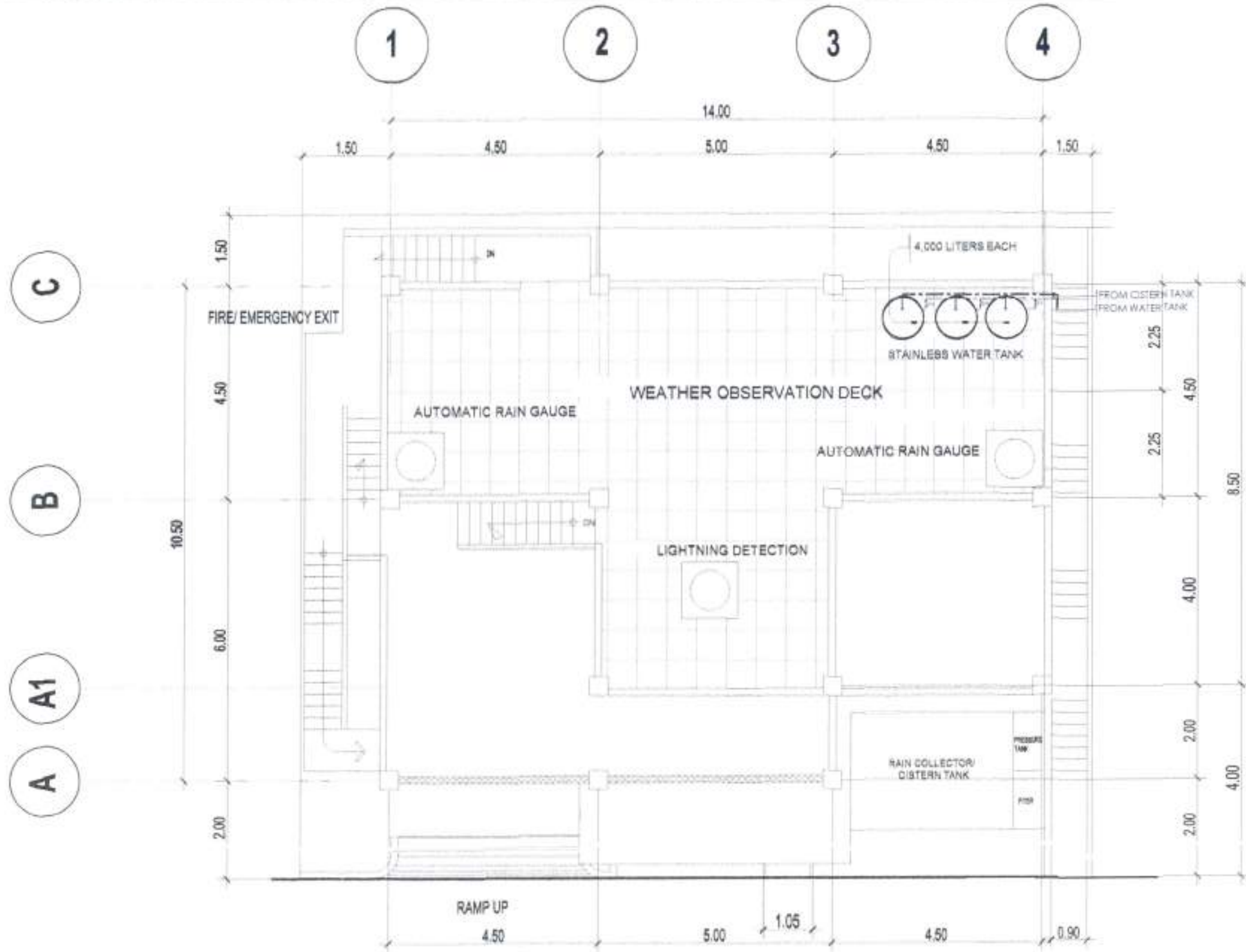
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RODRICK V. HORNEJO

SHEET NO.:
P-5
36 of 41



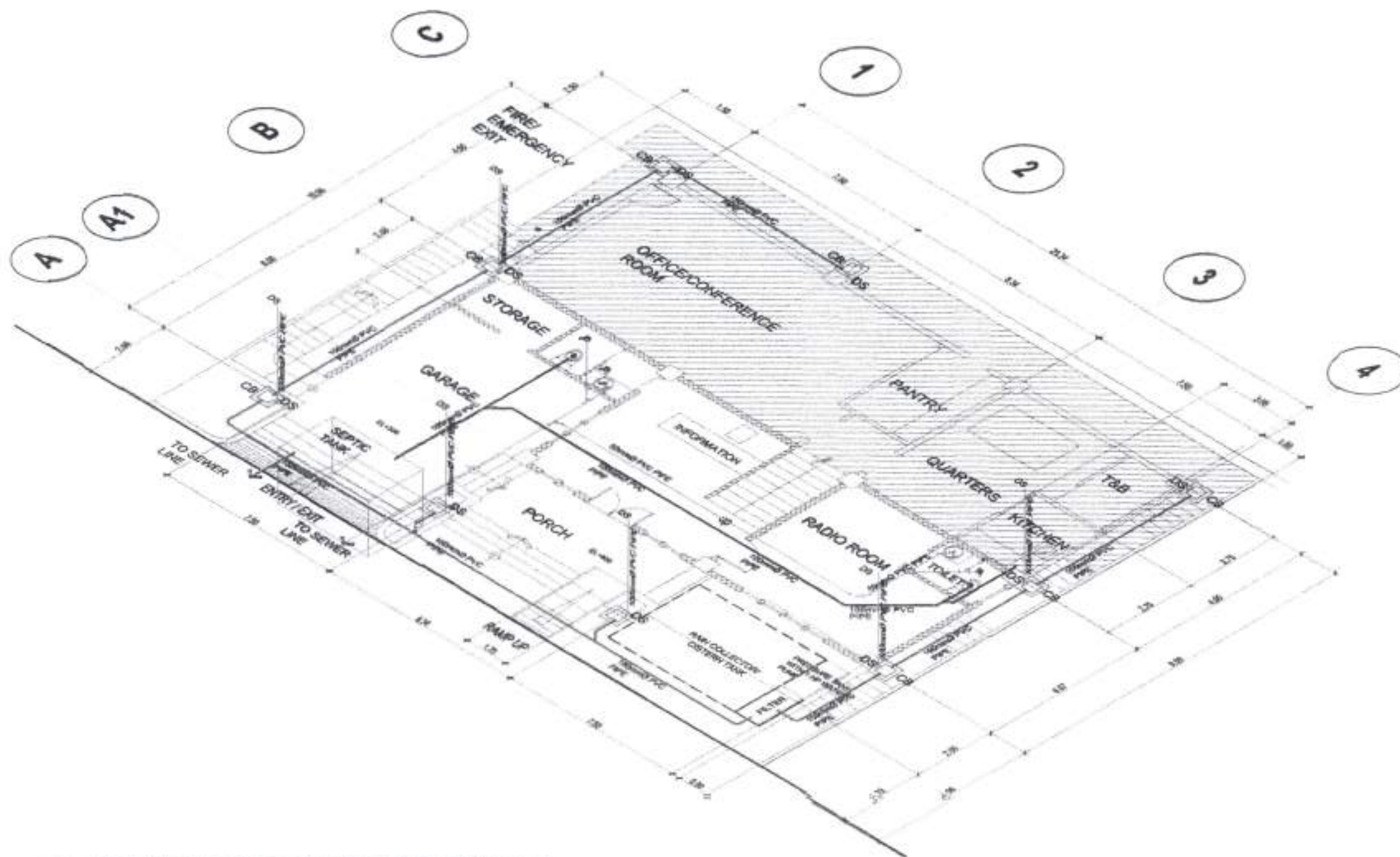
1 ROOF DECK WATERLINE PLAN
P-6 SCALE 1:60 MTS

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 3 SARANES DISTRICT ENGINEERING OFFICE BRGY. ANAYALLAMAN, BAKID, SARANES</p>	<p>PROJECT NAME AND LOCATION: LOCAL PROGRAM, Local Infrastructure Program: Buildings and other Structures, Multi-Purpose / Facilities: CONSTRUCTION OF PAGADA BUILDING</p>	<p>SHEET CONTENTS: ROOF DECK WATERLINE PLAN</p>	<p>DESIGNED BY:  PREPARED BY: </p>	<p>REVIEWED AS TO DESIGN CONCEPT:  MARK ANDRE CHORTY</p>	<p>DRAWN BY:  PRINCE ALVIN S. SILE</p>	<p>RECOMMENDED BY:  RODRICK V. HORNEO</p>	<p>APPROVED BY:  DIOSDADO C. LUPRANO</p>	<p>SET NO. P-6 SHEET NO. 37 41</p>
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1 ROOF DECK WATERLINE PLAN
P-6 SCALE 1:60 MTS.

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 2 BATANES DISTRICT ENGINEERING OFFICE BAYAN, KATIPUNAN, BATAAN</p>	<p>PROJECT NAME AND LOCATION: LOCAL PROGRAM: Land Infrastructure Program Buildings and other Structures, Multi-Purpose Facilities CONSTRUCTION OF PIGANA BUILDING</p>	<p>SHEET CONTENTS: ROOF DECK WATERLINE PLAN</p>	<p>DESIGNED BY: CHECKED BY: APPROVED BY: </p>	<p>REVISIONS TO DESIGN WORK: DATE: BY:</p>	<p>REVISIONS: DATE: BY:</p>	<p>APPROVED: DATE: BY:</p>	<p>SHEET NO. P-6 37 41</p>
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1 GROUND FLOOR PLUMBING ISOMETRIC PLAN
P-7 SCALE 1:20 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 7
SARANGANI DISTRICT ENGINEERING OFFICE
8001 APT. VILLAMAR, MAHO, SARANGANI

PROJECT NAME AND LOCATION
LOCAL PROGRAM - LIRIP Infrastructure Program
Buildings and other Structures, Multi-Purpose / Facilities
CONSTRUCTION OF RADIO BUILDING

SHEET CONTENTS
GROUND FLOOR PLUMBING ISOMETRIC
PLAN

DESIGNED
CHECKED
APPROVED

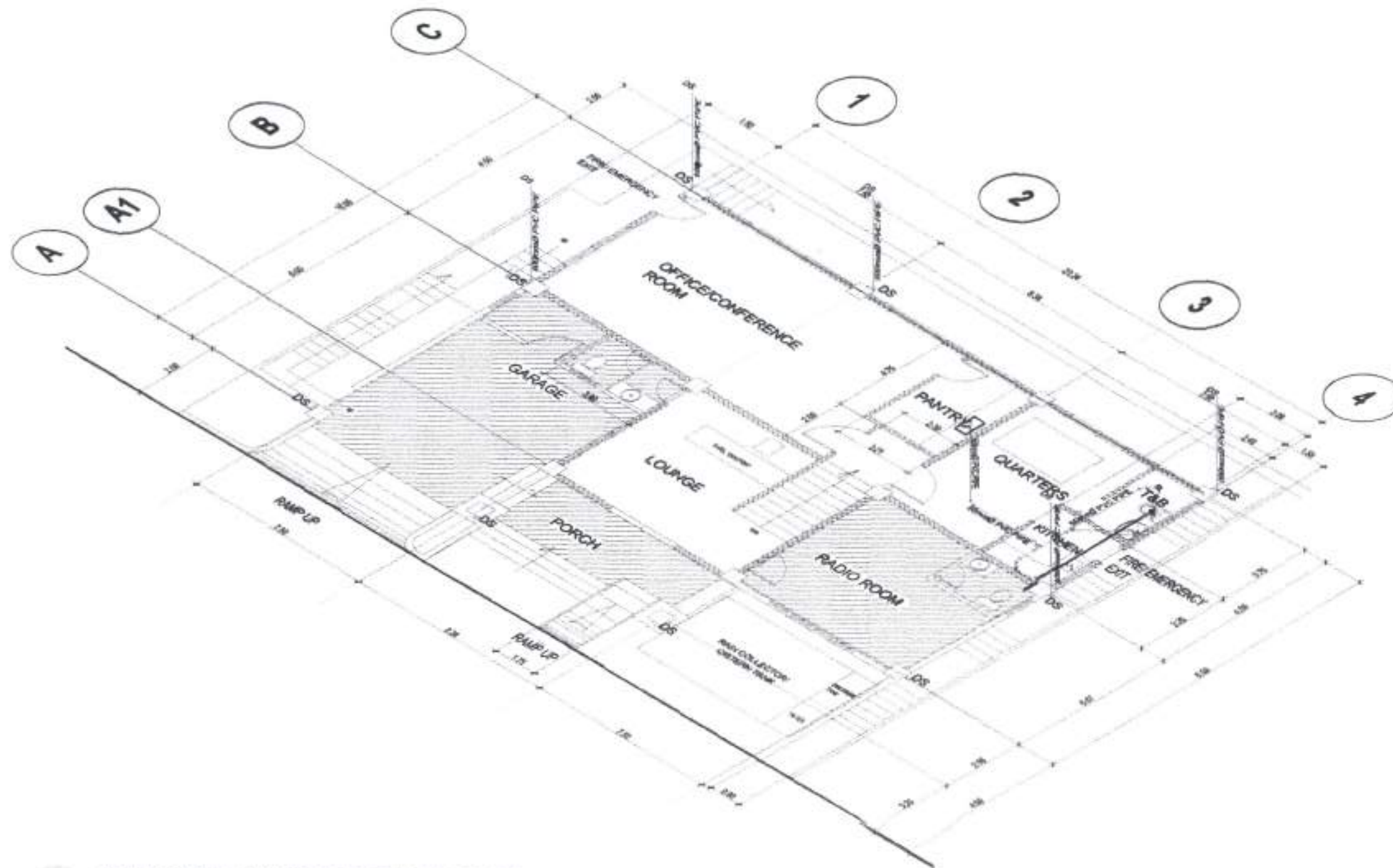
REVIEWED TO DESIGN CONCEPT
SEAN, ANDRELLA MORTIZ

DRAWN BY
R. Harrodo

REVIEWED BY
R. Harrodo

APPROVED
DORADO, C. L. L. L.

SHEET NO.
P-7
38 / 41



1 UPPER LEVEL PLUMBING ISOMETRIC PLAN
P-B SCALE 1:20 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 1
BATAVIA DISTRICT ENGINEERING OFFICE
BATAVIA DISTRICT ENGINEERING OFFICE

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
Building and other Structures, Multi-Purpose Facility
CONSTRUCTION OF BATAVIA BUILDING
BATAVIA DISTRICT

SHEET CONTENTS
UPPER LEVEL PLUMBING ISOMETRIC PLAN

DESIGNED BY
CHECKED BY
APPROVED BY

REVIEWED BY
SUBMITTED BY
DATE

RECOMMENDED BY
DATE

APPROVED BY
DATE

SET NO.
SHEET NO.
P-B
39 41

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORKS HEREIN SHALL BE EXECUTED ACCORDING TO THE REQUIREMENTS OF THE PHILIPPINE NATIONAL PLUMBING CODE.

2. IT IS NOT INTENDED THAT DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND OTHER APPURTENANCES. FURNISH AND INSTALL IF NECESSARY. ALL ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT OR INDICATED IN THE DRAWINGS TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE PLUMBING TRADE AND TO THE ENTIRE SATISFACTION OF THE SANITARY ENGINEER IN CHARGE.

3. PERFORM ALL LABOR IN A FIRST CLASS AND NEAT WORKMANSHIP BY SPECIALISTS SKILLED IN THEIR TRADES. SUCH SPECIALISTS AND THEIR WORK SHALL BE TO THE ENTIRE SATISFACTION OF THE SANITARY ENGINEER IN CHARGE.

BASIC MATERIALS

1. PROVIDE MATERIALS THAT ARE NEW AND IN CONFORMITY WITH THE MATERIAL SPECIFICATIONS AS REQUIRED BY THE ARCHITECT/SANITARY ENGINEER IN CHARGE.

2. FOR OTHER REQUIRED MISCELLANEOUS MATERIALS NOT SPECIFICALLY MENTIONED, PROVIDE THE BEST OF ITS KIND.

3. SUBMIT SAMPLES OF MATERIALS FOR APPROVAL AS REQUIRED BY THE ARCHITECT/SANITARY ENGINEER IN CHARGE.

4. CONFORM ALL APPLICABLE PIPES AND MATERIALS FOR VARIOUS SERVICES TO THE STANDARDS OUTLINED BELOW.

PLUMBING FIXTURES

1. INSTALL ALL PLUMBING FIXTURES FREE AND OPEN IN A MANNER TO ACCESS FOR CLEANING. FURNISH WITH BRACKETS, CLEATS, PLATES AND ANCHORS REQUIRED TO SUPPORT THE FIXTURE RIGIDLY IN PLACE.

2. BEER AWAY AT A SUFFICIENT DISTANCE, BUT NOT LESS THAN 10 INCH (254 mm). ALL SERVICE PIPES, VALVES AND FITTINGS FROM SURFACES AND LOCATIONS WHICH MAY REQUIRE FINISH COAT OR COVERING.

3. EXTEND THE PIPING TO ALL FIXTURES, OUTLETS AND EQUIPMENT FROM REQUIRED GATE VALVES INSTALLED IN EACH BRANCH NEAR RISERS.

SHUT-OFF

1. PROVIDE ENTIRE SYSTEM WITH VALVES SO LOCATED THAT THE SYSTEM OR PORTIONS OF IT CAN BE OPERATED, REPAIRED AND REPLACED AS WELL AS AFFORDING COMPLETE CONTROL OF THE WATER SUPPLY TO EACH GROUP OF FIXTURES WHEN REQUIRED. PROVIDE ALSO PRESSURE REDUCING VALVES.

SOIL, WASTE & VENT PIPES

1. INSTALL ALL PLUMBING WORKS IN CONFORMITY WITH ALL PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE PLUMBING CODE AND APPLICABLE REQUIREMENTS OF EXISTING LOCAL CODES.

2. EXCAVATE TO REQUIRED DEPTHS AND GRADES ALL EXCAVATIONS REQUIRED FOR THE INSTALLATION OF PLUMBING AND DRAINAGE SYSTEM. WHEN ROCK IS ENCOUNTERED, EXTEND EXCAVATION TO A DEPTH OF 150mm BELOW THE PIPE BOTTOM.

3. LAY WATER SUPPLY PIPES AND SEWER IN SEPARATE TRENCHES.

OTHERS

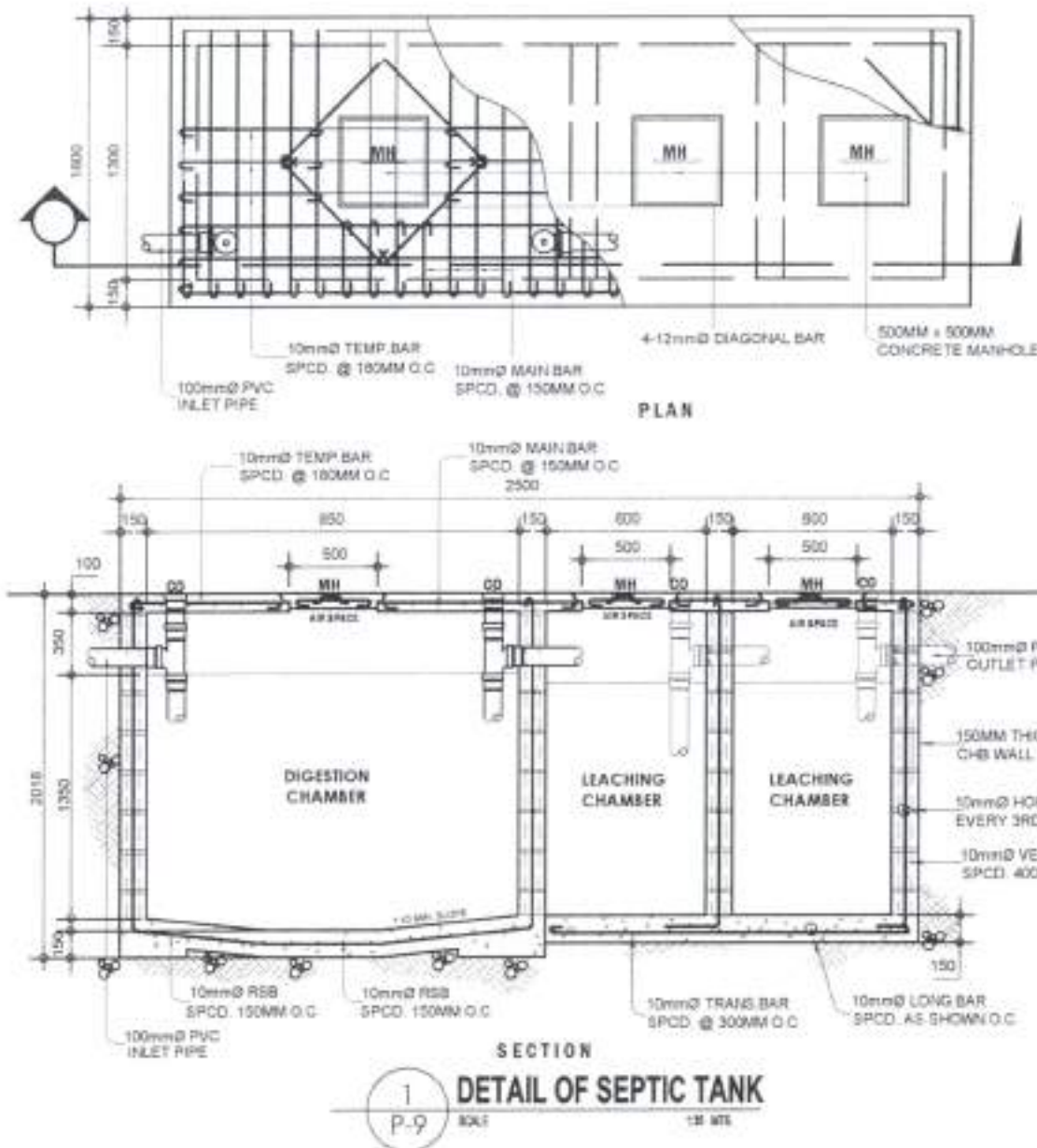
1. PIPES SHALL BE INSTALLED AS NOTICED. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE SANITARY ENGINEER IN CHARGE.

2. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATIONS.

3. ALL FIXTURES SHALL BE VENTED UNLESS OTHERWISE INDICATED.

4. AIR CHAMBER. ALL INDIVIDUAL BRANCHES TO THE FIXTURE OR GROUP OF FIXTURES AND / OR EQUIPMENT SHALL BE PROVIDED WITH AIR CHAMBER WITH CARVED VERTICAL PIPE EXTENSION OR DIMENSIONS.

5. WAGRE BRANCH CURVES MORE THAN ONE FIXTURE, INCREASE SIZE OF BRANCH PROPORTIONATELY.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. 2
BATANES DISTRICT ENGINEERING OFFICE
BAYAN KAYKAYAN, BACOD, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM - Local Infrastructure Program
Buildings and other Structures - Multi-Purpose Facilities
CONSTRUCTION OF PAGASA BUILDING

DESIGNED BY

SHEET CONTENTS
DETAIL OF SEPTIC TANK
GENERAL PLUMBING NOTE

DRAWN BY

REVIEWED BY

REVIEWED BY

SUBMITTED

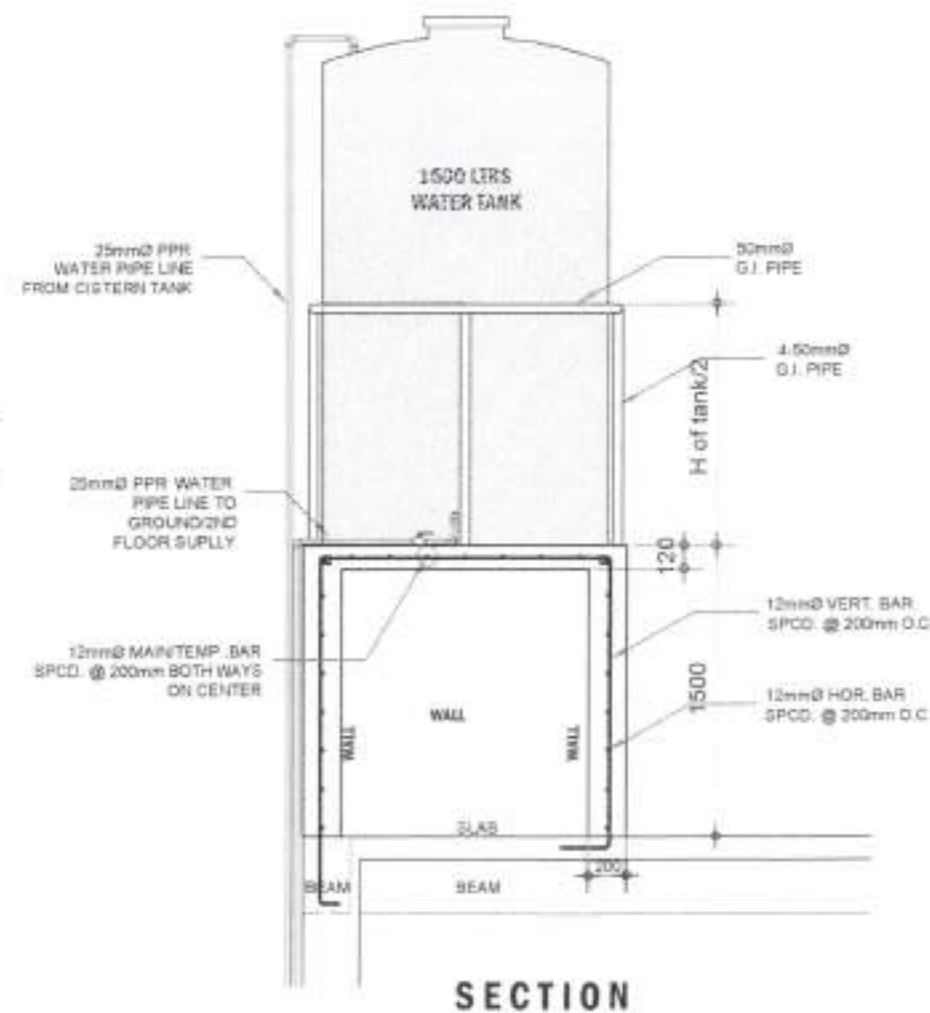
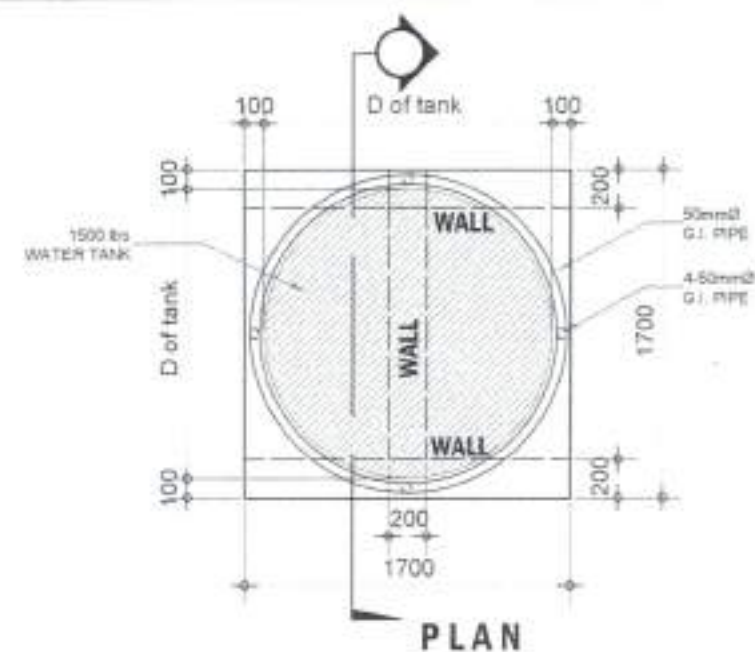
APPROVED

APPROVED

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2
P-10

DETAIL OF ELEVATED TANK BASE

SCALE: 1/8" = 1'-0"

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWING, DIMENSIONS SHALL CONTROL AND DISTANCES AND SPACES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTS, LOCATION OF DOORS, ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE AC 308, 309, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION AND EDITIONS IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- NO RETEYS TO AND/OR CONCRETE INTERFACES, AS TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. WOOLY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH CREATION AND PLACING DRAWINGS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL ADVISE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOPS, COUPLERS AND MECHANICAL SPICES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL ENGINEER.

NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY (20) DAYS BY CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS:

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE
ALL OTHERS, INCLUDING SUSPENDED SLABS	4000 PSI (27.6 MPa)	20mm
COLUMNS	4000 PSI (27.6 MPa)	20mm
BEAMS, SLABS	4000 PSI (27.6 MPa)	20mm
SLAB ON FILL	4000 PSI (27.6 MPa)	20mm

- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:
- | | |
|--|------|
| SUSPENDED SLABS | 20mm |
| SLAB ON GRADE | 40mm |
| WALLS ABOVE GRADE | 25mm |
| IRON STRUTS AND COLUMN TIES | 40mm |
| WALLS EXPOSED TO EARTH BUT POURED AGAINST FORMS | 50mm |
| WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH | 75mm |

- CONCRETE SHALL BE DEPOSITED IN ITS PROPER POSITION WITHOUT SEPARATION. REINFORCING STEEL SHALL BE SECURELY FASTENED WITH BUCKETS, BUCKETS OR MISCELLANEOUS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUCKETS, MISCELLANEOUS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED 30 METERS IN ANY SINGLE LENGTH.

- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE ENGINEER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.

- ALL ANCHOR BOLTS, DOWELS, AND OTHER ANCHORS SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.

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

- STRENGTH OF FORMS AND CURING:
- | | |
|--|----------|
| FOUNDATION | 24 HOURS |
| SUSPENDED SLAB EXCEPT WHEN ADDITIONAL CURING ARE SPECIFIED | 21 DAYS |
| WALLS | 7 DAYS |
| BEAMS (CASTING) | 24 HOURS |
| BEAMS (FORMING) | 4 DAYS |
| COLUMNS | 2 DAYS |

- THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.

- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

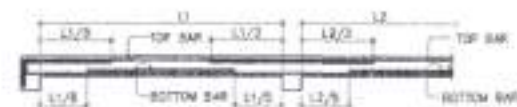
- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 150 KPa (1,500 PSI). CONTRACTOR SHALL REPORT TO THE ENGINEER IN WRITING THE ACTUAL SOIL CONDITIONS, UNDESIGNED AND GENERAL ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
- FOOTINGS SHALL REST AT LEAST 150mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE SOIL AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
 - A. FOOTINGS, FOOTING BEAMS AND GIRDERS $f_y = 275 \text{ MPa}$ (40,000 PSI)
 - B. COLUMNS AND SHEET WALLS $f_y = 275 \text{ MPa}$ (40,000 PSI)
 - C. BEAMS AND GIRDERS $f_y = 275 \text{ MPa}$ (40,000 PSI)
 - D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARTITIONS, GUTTER SLOPS, SIDE WALLS $f_y = 275 \text{ MPa}$ (40,000 PSI)
- ALL REINFORCING BARS INTO 10mm OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10mm MAY BE PLAIN.
- SPICES SHALL BE SECURELY WELDED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE A & TABLE B (TABLE OF LAP SPICES & ANCHORAGE LENGTHS) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPICES SHALL BE STAGGERED WHENEVER POSSIBLE.

NOTES ON CONCRETE SLABS

- ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
- UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:



TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

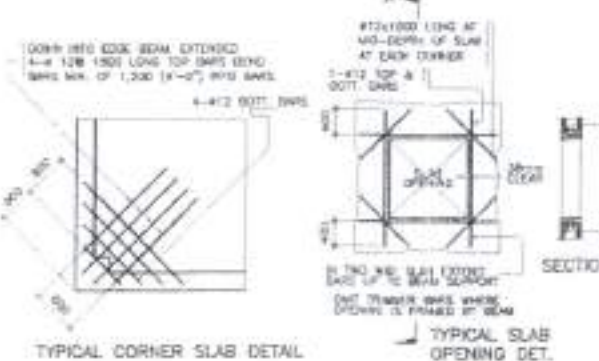
- IF SLABS ARE REINFORCED BOTHWAYS, BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW BARS ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONG SPAN. FOR REINFORCING BARS NEAR THE SUPPORTS, THE SPACING OF THE BARS AT THE COLUMN SPICES SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS.
- TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 X GROSS CROSS-SECTIONAL AREA (A_g) OF THE SLAB (SEE SCHEDULE BELOW).

THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm x 10 mm @ 250mm CDSH BAR
125 mm	10 mm x 10 mm @ 250mm CDSH BAR
150 mm	10 mm x 10 mm @ 250mm CDSH BAR
175 mm	10 mm x 10 mm @ 250mm CDSH BAR
200 mm	10 mm x 10 mm @ 250mm CDSH BAR

- UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm x 10 mm @ 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SLAB SHALL NOT BE LESS THAN 3 METERS APART.

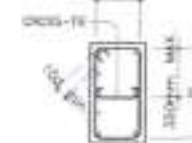
- PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT BEDDED SLABS) ELEVATED AS SHOWN BELOW.

- CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mm STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS.

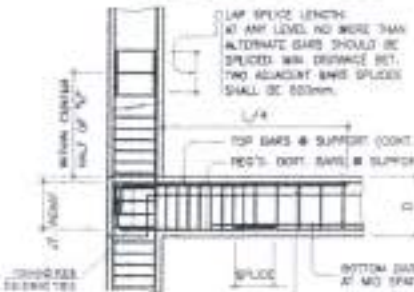


NOTES ON COLUMNS

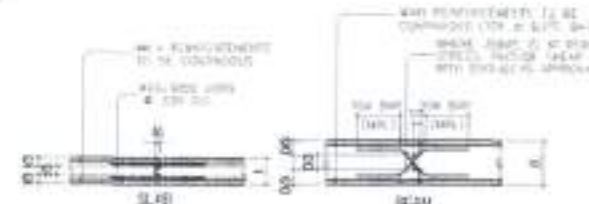
- PROVIDE EXTRA SETS OF BARS AT 100mm O.C. FOR RED COLUMNS REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/6 THE COLUMN HEIGHT OF COLUMN OR 450mm.
- COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COATING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF CONCRETE AGGREGATE IN MILLIMETERS.
- WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10mm TIES AT 100mm SHALL BE PROVIDED THRU OUT THE OFFSET REGION.
- UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPICE LENGTH SHALL NOT BE LESS THAN 1.5 TIMES THE BAR DIAMETER. WELDING OR APPROVED MECHANICAL SPICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPICES OF ADJACENT BARS IS NOT LESS THAN 600mm.



TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



TYP. DETAIL OF COL. LAP SPICE & EXT. GIRDER TO COL. CONNECT.



TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.

NOTES ON BEAMS AND GIRDERS

- UNLESS OTHERWISE NOTED IN PLANS, CANNOT ALL BEAMS AND GIRDERS AT LEAST BEAM FOR EVERY 4.5M OF SPAN. EXCEPT CANTILEVERS FOR WHICH THE CANTILEVER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 30mm FOR EVERY 3.0M OF FREE SPAN.
- TYPICAL BARS SECTION AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.

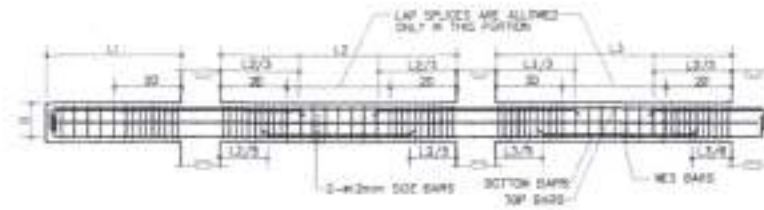


FIG. B-1

TABLE 'A' TENSION BARS EMBEDMENT LENGTHS AND LAP SPICES IN MILLIMETERS					TABLE 'B' COMPRESSION BARS EMBEDMENT LENGTHS AND LAP SPICES IN MILLIMETERS				
BAR SIZE (DEFINITE)	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	BAR SIZE (DEFINITE)	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$	$f_y = 275 \text{ MPa} (40,000 \text{ PSI})$
10mm #	300	300	300	300	10mm #	225	225	225	225
12mm #	300	300	300	300	12mm #	225	225	225	225
14mm #	300	300	300	300	14mm #	225	225	225	225
16mm #	400	400	400	400	16mm #	225	225	225	225
18mm #	400	400	400	400	18mm #	225	225	225	225
20mm #	400	400	400	400	20mm #	225	225	225	225
22mm #	400	400	400	400	22mm #	225	225	225	225
24mm #	400	400	400	400	24mm #	225	225	225	225
26mm #	400	400	400	400	26mm #	225	225	225	225
28mm #	400	400	400	400	28mm #	225	225	225	225
30mm #	400	400	400	400	30mm #	225	225	225	225

NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 1.

NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 1.

VALUES SHOWN ABOVE OR ALSO BE USED FOR COLUMNS.

- IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLANS. TOP BARS SHALL NOT BE SPICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN AT (LEFT) TWO STRUTS SHALL BE PROVIDED IN ALL SPICES.

- IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mm BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.

- MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B-1 UNLESS SPECIFIED ELSEWHERE.

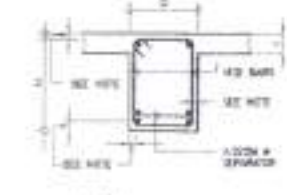


FIG. B-2

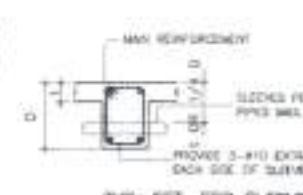
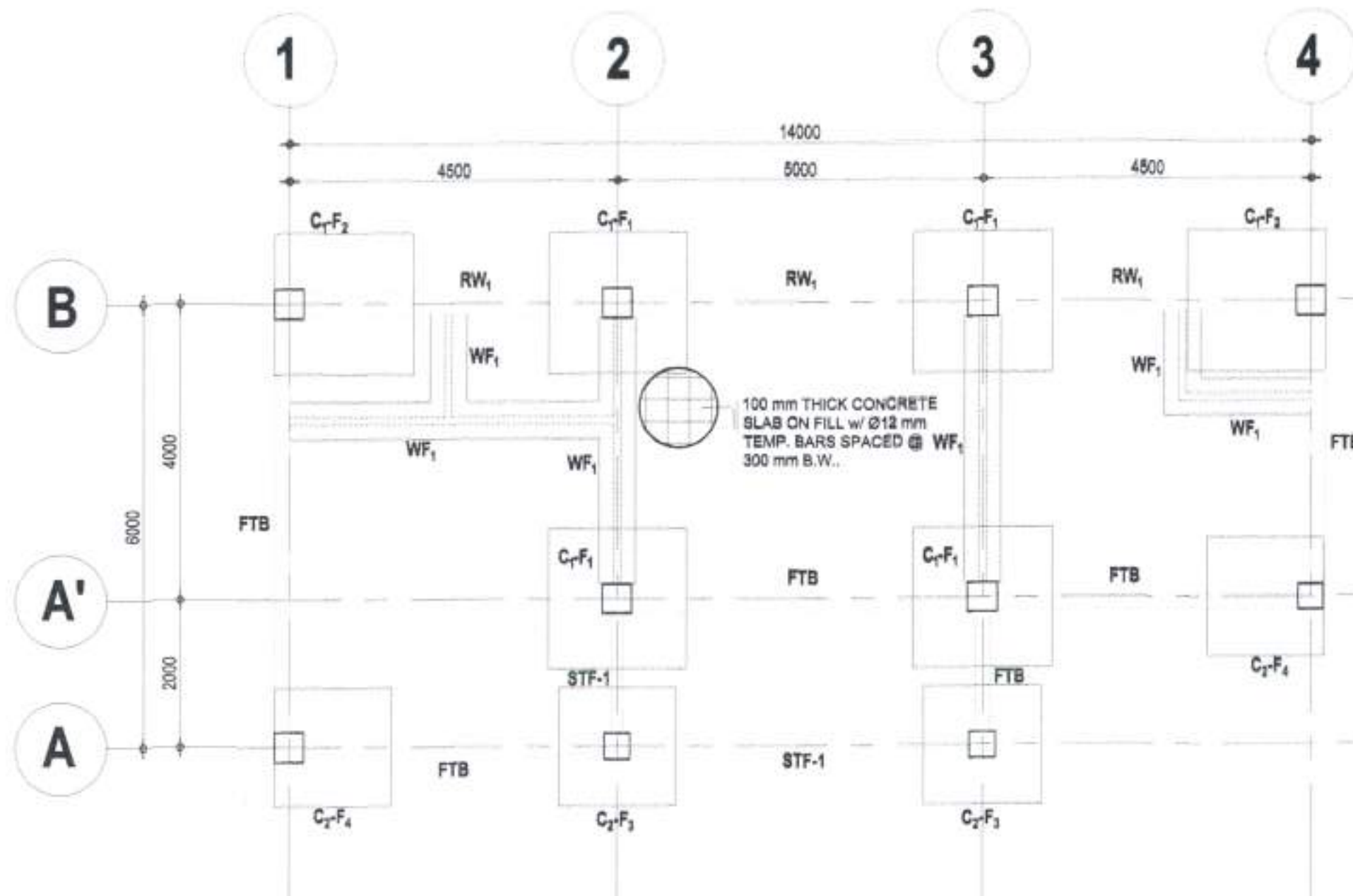


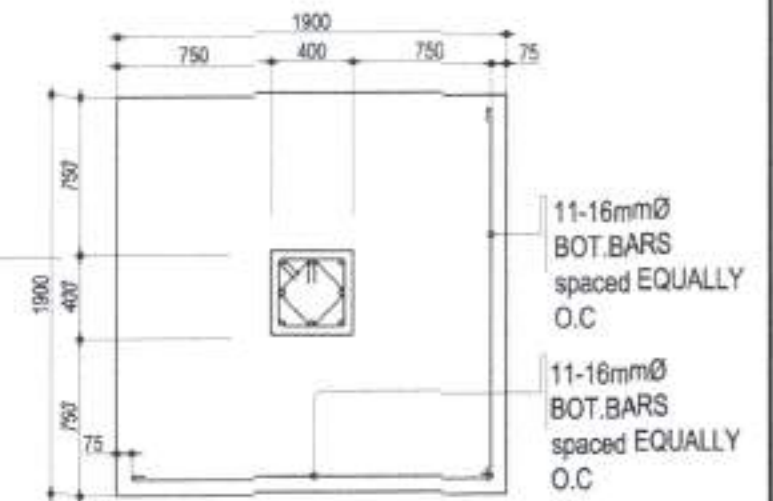
FIG. B-3

- WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS. BEAM REINFORCING BARS SHALL BE SPACED AT 1.0M ON CENTER ABOUT CENTER LINE WHENEVER POSSIBLE.

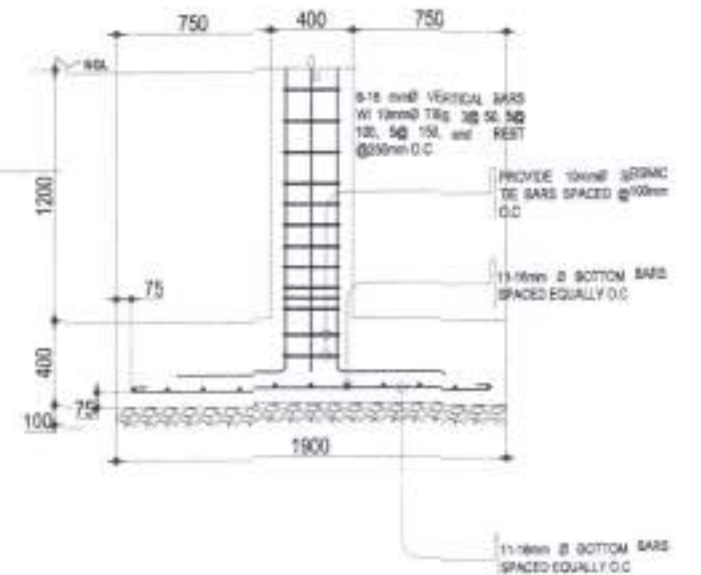
- GENERALLY NO SPICES SHALL BE PERMITTED AT JOINTS WHERE CRITICAL BENDING MOMENTS OCCUR. SPICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B' WELDED SPICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED TENSILE STRENGTH OF THE BAR NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPICED THINER.



LOWER GROUND
FOUNDATION PLAN
SCALE 1:50MTS.

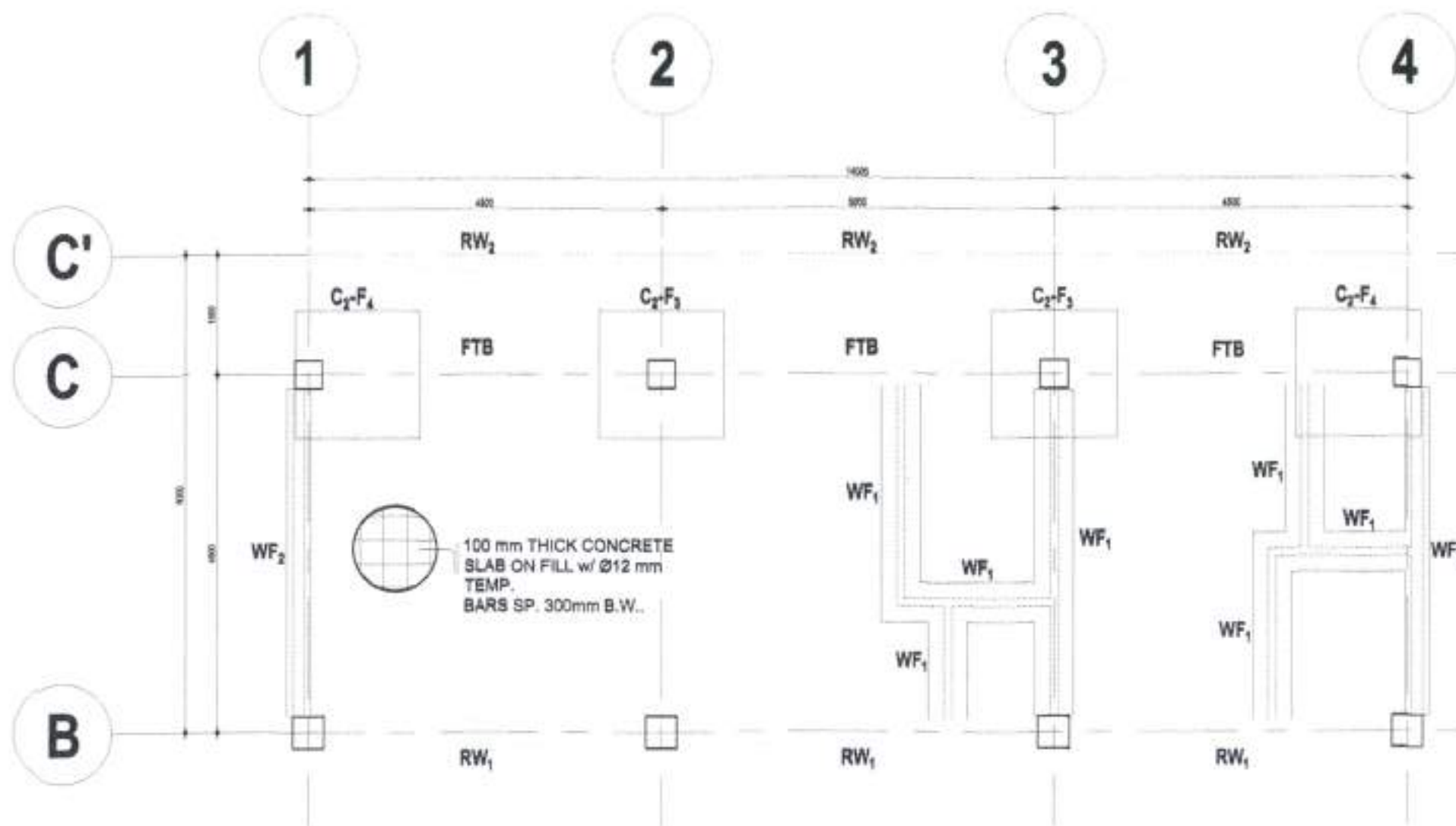


C1-F1 PLAN
SCALE 1:25MTS.

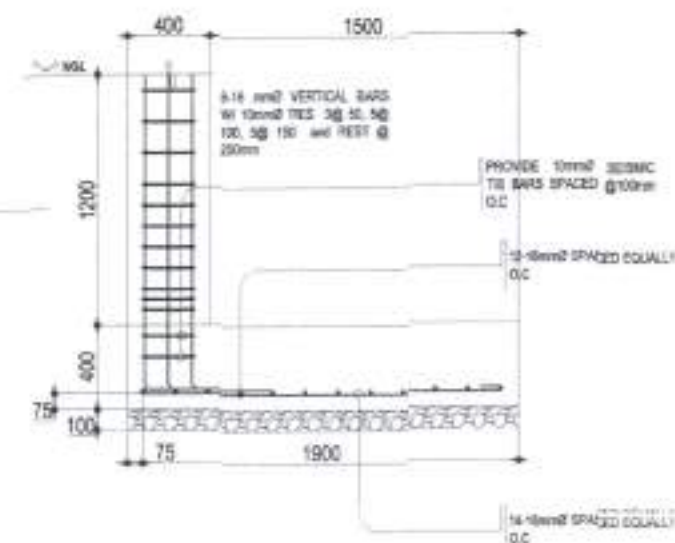
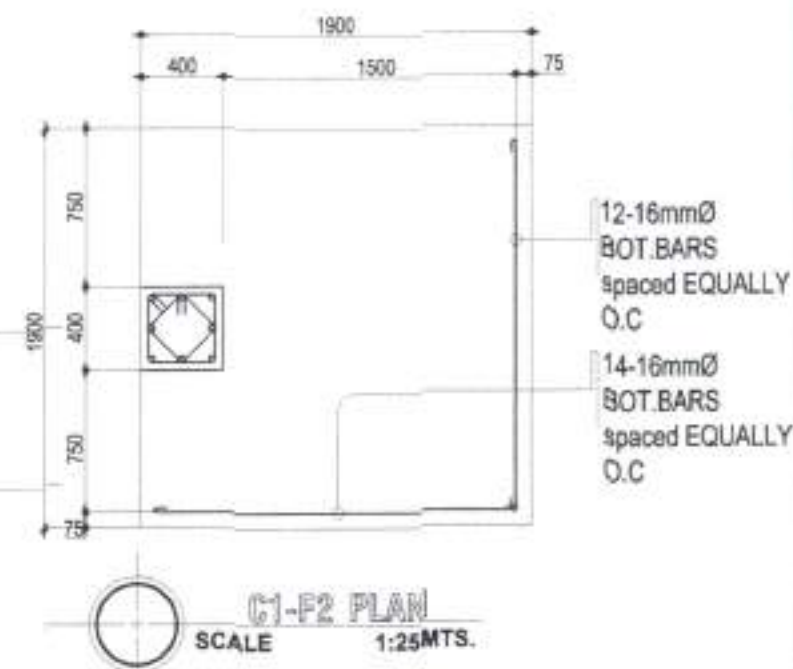


C1-F1 SECTION DETAIL
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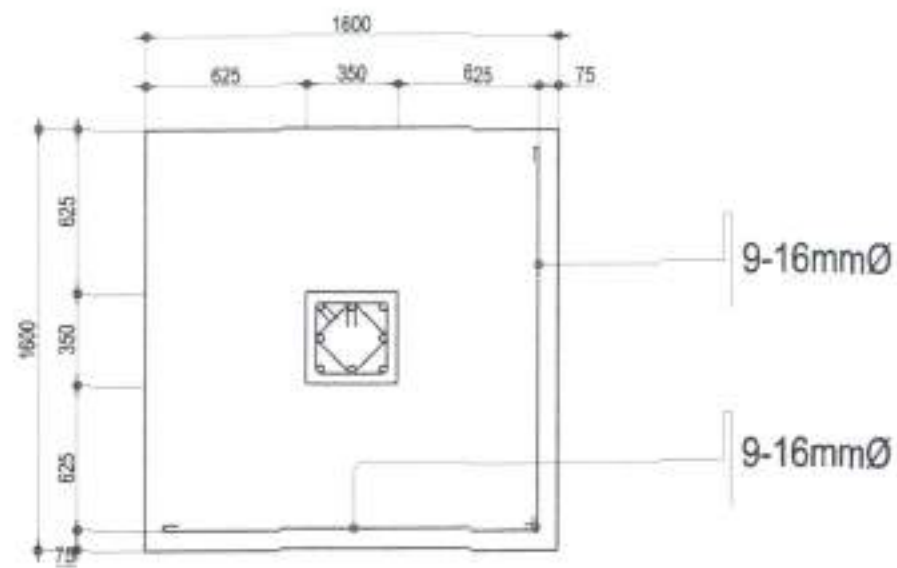
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. 2 BATANES DISTRICT ENGINEERING OFFICE BAYAT, KATWALOGAN, BANGAL, BATANES</p>	<p>PROJECT NAME AND LOCATION: LOCAL PROGRAM: Local Infrastructure Program; Buildings and other Structures; Multi-Purpose / Facilities CONSTRUCTION OF PAGASA BUILDING</p>	<p>SHEET CONTENTS: LOWER GROUND FOUNDATION PLAN</p>	<p>DRAWN BY: KATHLEEN KAYE C. MANAGAN</p>	<p>REVIEWED BY: MARK ANGELO C. HORTA</p>	<p>SUBMITTED BY: PRUDENCA V. ARMENTE</p>	<p>RECOMMENDED BY: RODRICK V. HORNEJO</p>	<p>APPROVED BY: DIONISIO C. LOMBARD</p>	<p>SHEET NO.: S-3 15/41</p>
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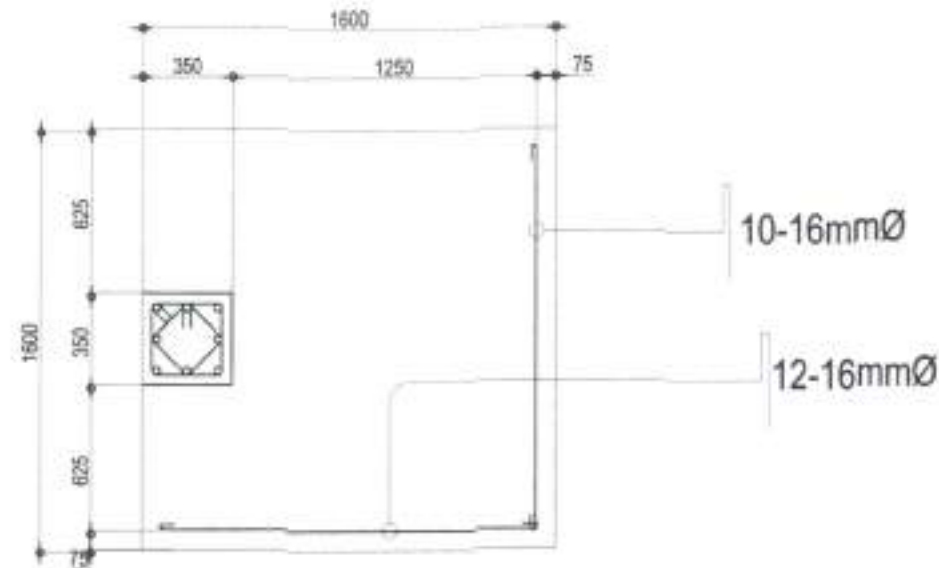

**UPPER GROUND
FOUNDATION PLAN**
SCALE 1:50MTS.



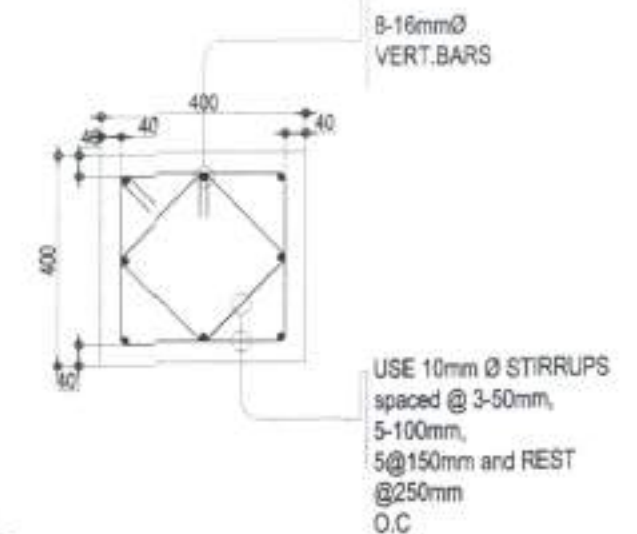
 <p> REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. 2 BATANES DISTRICT ENGINEERING OFFICE BRGY. KAPVALUGAN, SAGRO, BATANES </p>	<p>PROJECT NAME AND LOCATION:</p> <p>LOCAL PROGRAM Local Infrastructure Program: Buildings and other Structures, Multi-Purpose / Facilities: CONSTRUCTION OF PADARA BUILDING</p>	<p>SHEET CONTENTS:</p> <p>UPPER GROUND FOUNDATION PLAN</p>	<p>DRAWN BY:</p> <p>KATHLEEN KAYE C. MANAGAN</p>	<p>REVIEWED AND APPROVED:</p> <p>MARK ANTONIO C. MORTIZ</p>	<p>RECOMMENDED:</p> <p>RODRICK V. HORNEO</p>	<p>APPROVED:</p> <p>DIONISIO C. LOMBAO</p>	<p>SHEET NO. 16</p> <p>SHEET NO. 41</p>
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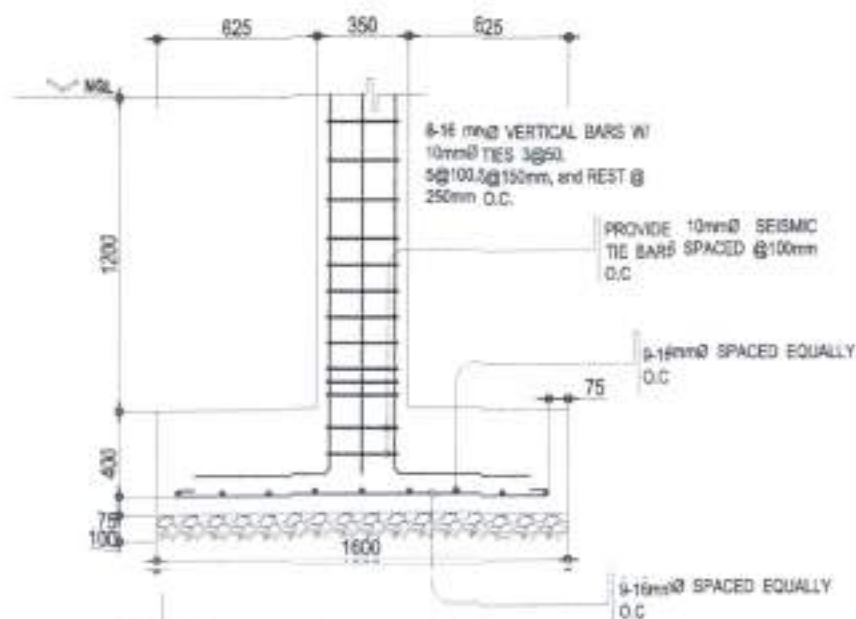
C2-F3 PLAN
SCALE 1:20MTS.



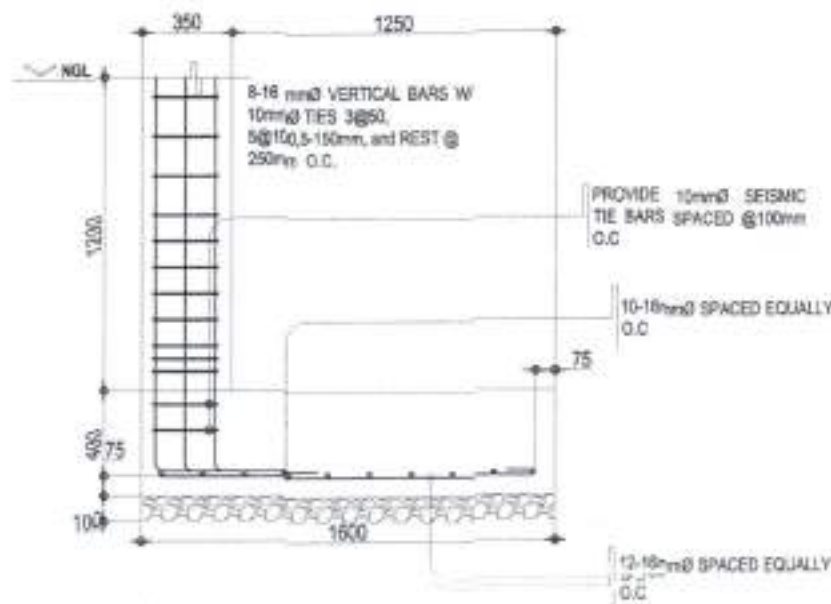
C2-F4 SECTION DETAIL
SCALE 1:20MTS.



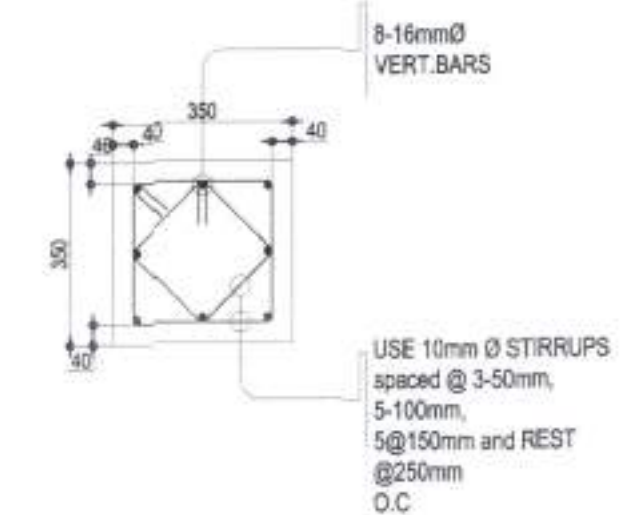
C1 SECTION DETAIL
SCALE 1:10MTS.



C2-F3 PLAN
SCALE 1:20MTS.



C2-F4 SECTION DETAIL
SCALE 1:20MTS.



C2 SECTION DETAIL
SCALE 1:10MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 4
BATANES DISTRICT ENGINEERING OFFICE
P.O. BOX 100, BANGAL, BANGAL, BATANES

PROJECT NAME AND LOCATION:
LOCAL PROGRAM Local Infrastructure Program;
Buildings and other Structures: Multi-Purpose / Facilities;
CONSTRUCTION OF PAGASA BUILDING

(BATANES, BATANES)

SHEET CONTENTS:

COLUMN-FOOTING PLAN
COLUMN-FOOTING SECTION DETAIL

DRAWN BY:

KATLANGE, J. VARGAS

PREPARED BY:

KATHLEEN KAYE C. BASARAN

REVIEWED BY (DATE):

MARK ANGELO C. HORTIZ

SUBMITTED BY:

PRINCE ALVIN V. VALERO

RECOMMENDED BY:

RODRICK V. TORNEO

APPROVED BY:

DIOSDADO C. LOYANAO

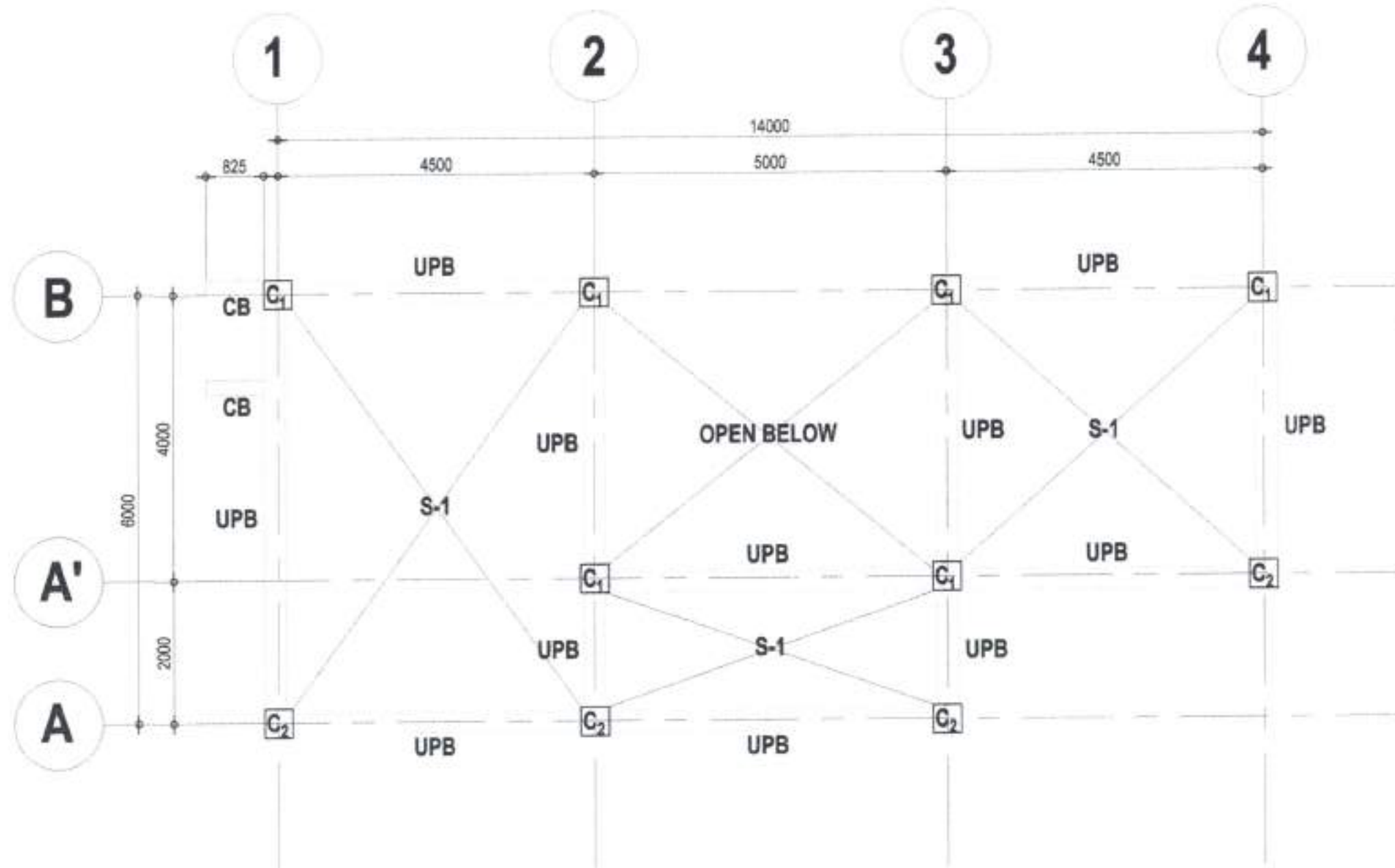
REVISION:

NO. 1

SHEET NO.:

S-5

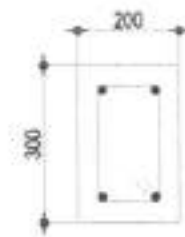
17/41



UPPER LEVEL FRAMING PLAN

SCALE

1:50MTS.



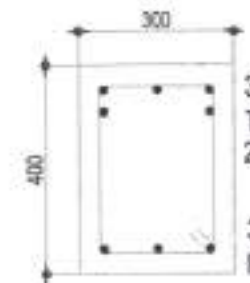
2-16mm \varnothing CONTINUOUS
TOP BAR
2-16mm \varnothing CONTINUOUS
BOTTOM BAR

STIRRUPS: 10mm \varnothing SPACED @
3@50, 3@100, 3@150, REST @ 200



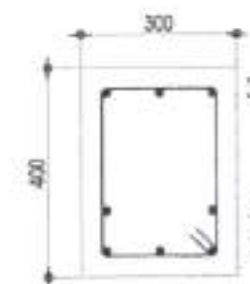
FTB SECTION DETAIL

SCALE 1:10MTS.



3-16mm \varnothing CONTINUOUS
TOP BAR
2-16mm \varnothing EXTRA TOP BARS
3-16mm \varnothing CONTINUOUS
BOTTOM BAR

@SUPPORT



3-16mm \varnothing CONTINUOUS TOP BAR
2-16mm \varnothing EXTRA BOTTOM BAR
3-16mm \varnothing CONT. BOTTOM BAR

@MIDSPAN

STIRRUPS: 10mm \varnothing SPACED @
3@50, 3@100, 3@150, REST @ 200



UPB SECTION DETAIL

SCALE 1:10MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BREV. KAYVALAGANAS, DARAO, BATANES

PROJECT NAME AND LOCATION:
LOCAL PROGRAM: Local Infrastructure Program;
Buildings and other Structures; Multi-Purpose / Facilities;
CONSTRUCTION OF PAGASA BUILDING

TSARAT, BATANES

SHEET CONTENTS:

UPPER LEVEL FOUNDATION PLAN

DRAWN BY:

KAYLA ANGELINA L. PAGASA

PREPARED BY:

KATHLEEN KAYLA C. BUNAGAN

REVIEWED AS TO DESIGN CONCEPT:

MARK ANTONIO C. HORTIS

SUBMITTED:

PRUDENCIO S. ALARCON

RECOMMENDED:

RODOLFO V. HORNEADO

APPROVED:

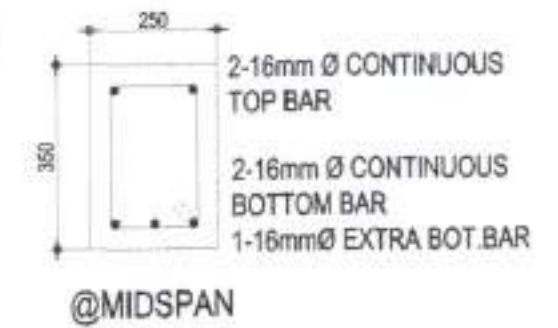
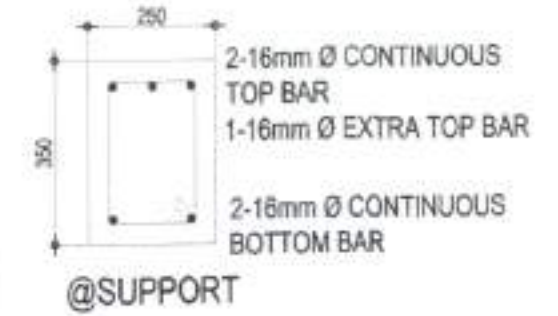
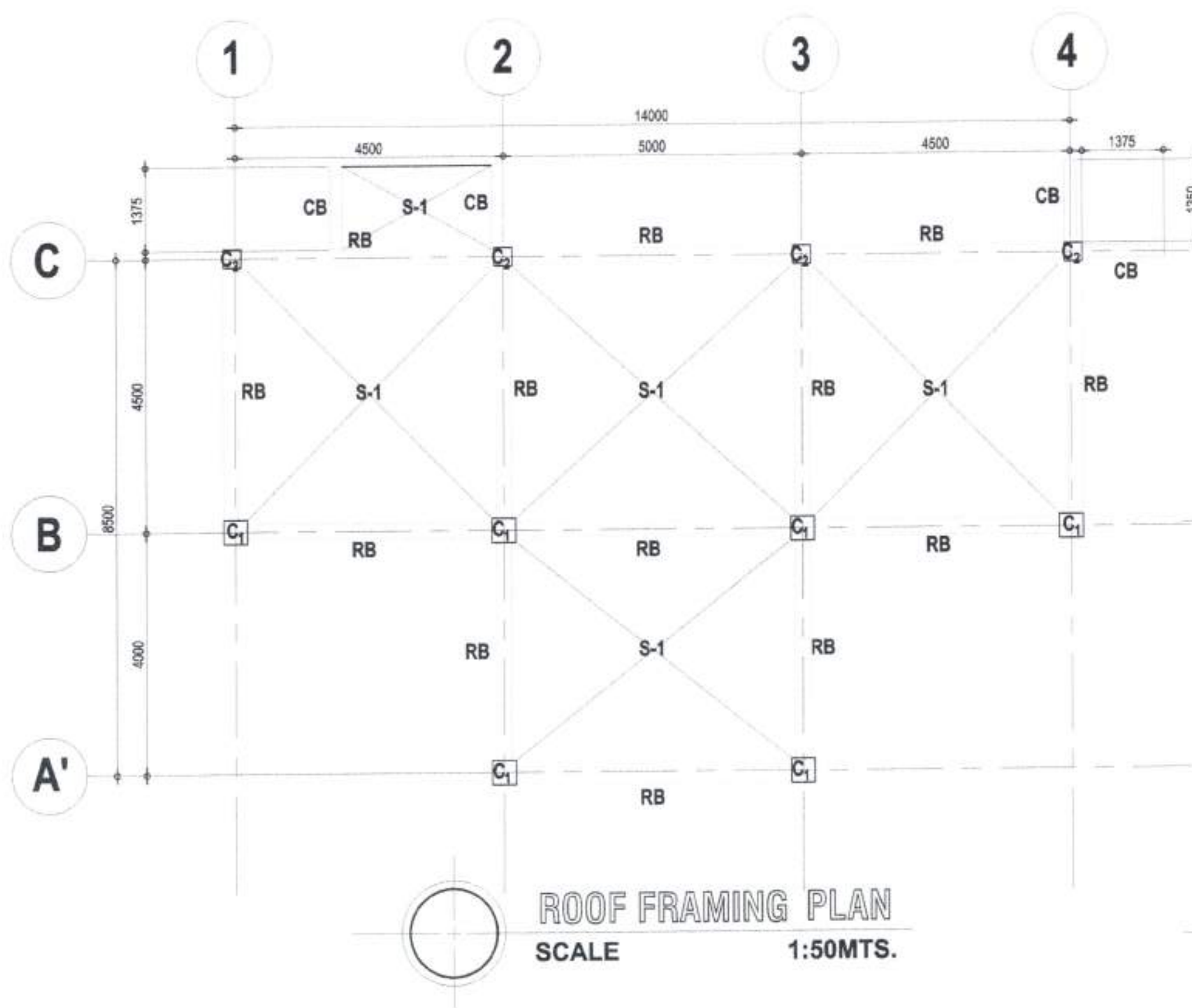
DICEDANO C. L. LACAD

SHEET NO.:

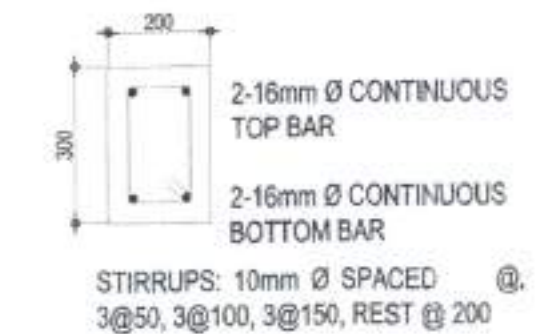
S-6

SHEET NO.:

18/41



STIRRUPS: 10mm Ø SPACED @
3@50, 3@100, 3@150, REST @ 200



ROOF FRAMING PLAN
SCALE 1:50MTS.



OFFICE OF THE REGIONAL ENGINEER
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BDO: KAYLA B. SAGOL, BATANES

PROJECT NAME AND LOCATION:
LOCAL PROGRAM Local Infrastructure Program:
Buildings and other Structures, Multi-Purpose / Facilities
CONSTRUCTION OF PAGASA BUILDING

DATE: 01/11/2023

SHEET CONTENTS

ROOF FRAMING PLAN

DRAFTED

KAYLA B. SAGOL

PREPARED

KATHLEEN M. C. BURGAS

REVIEWED AS TO DESIGN CONCEPT

MARK ANDRES C. HORTIZ

SUBMITTED

PRUDENCIO M. SANTIAGO

RECOMMENDED

RODRICK V. HERNANDEZ

APPROVED

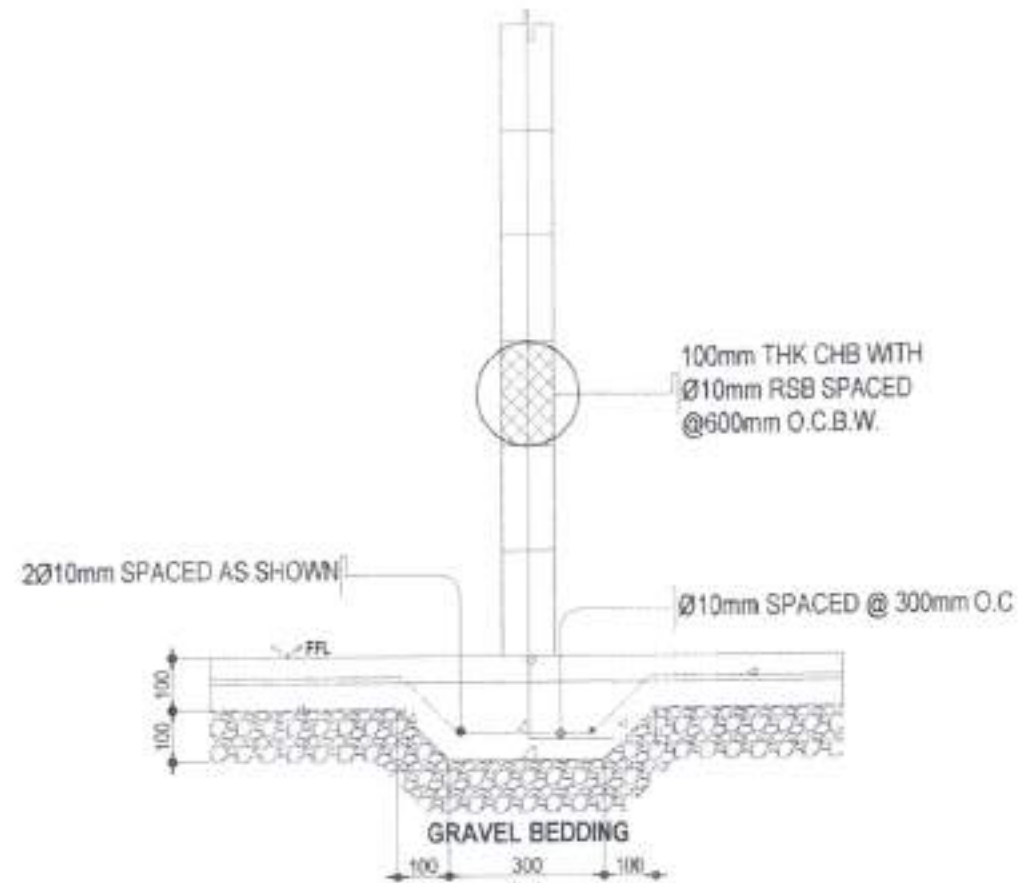
DIONISIO C. LOMBAO

SHEET NO.

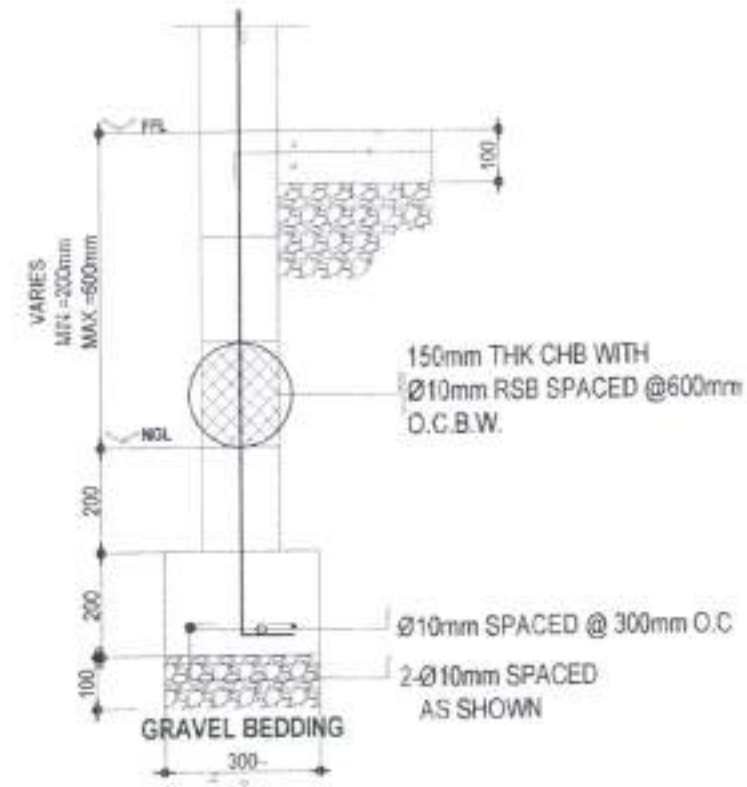
SHEET NO.

5-7

19/41



WF-1 DETAIL



WF-2 DETAIL



WALL FOOTING DETAILS
SCALE 1:10MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KAYALANMAN, BANGAL, ULITHAN

PROJECT NAME AND LOCATION

LOCAL PROGRAM Local Infrastructure Program:
Buildings and other Structures, Multi-Purpose Facilities,
CONSTRUCTION OF PAGASA BUILDING

(SHEET NUMBER)

SHEET CONTENTS

WALL FOOTING DETAILS

DRAWN BY

KAYALANMAN BANGAL

PREPARED BY

KAYALANMAN BANGAL

REVIEWED AS DESIGN CONCEPT

MARK MORENO C. MORTIS

SUBMITTED BY

MARK MORENO C. MORTIS

RECOMMENDED BY

RODRICK V. HERNANDEZ

APPROVED BY

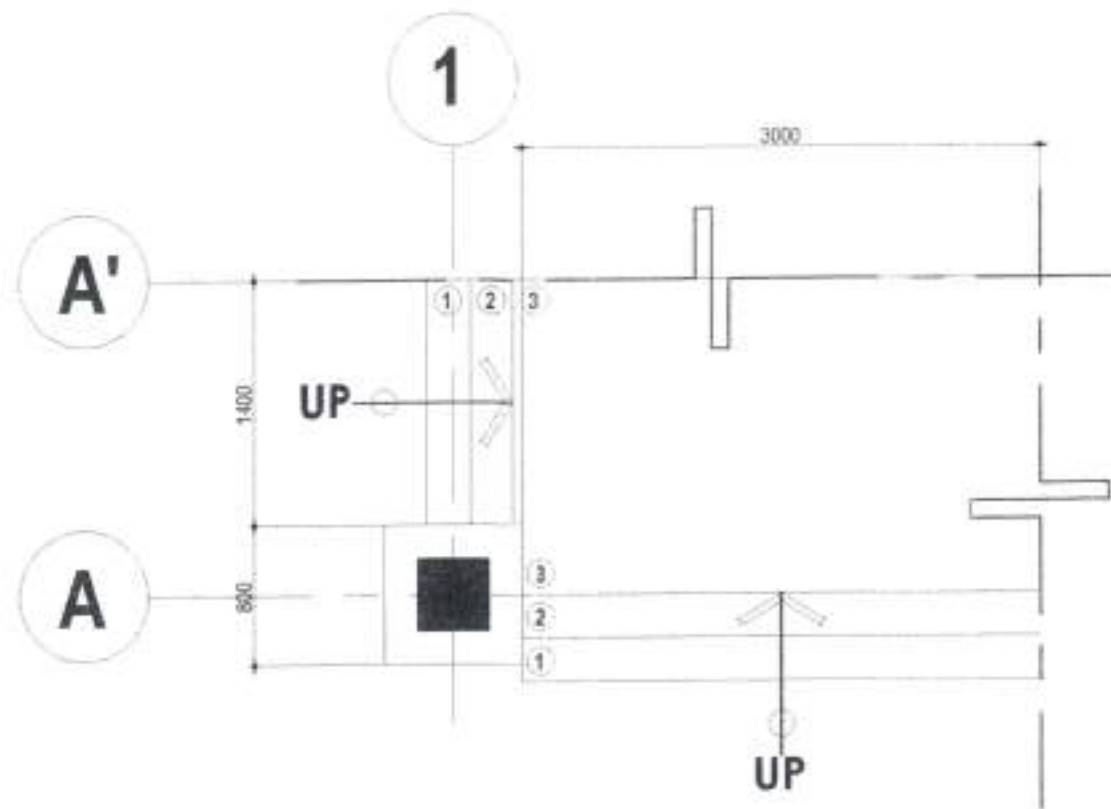
RODRICK V. HERNANDEZ

SHEET NO.

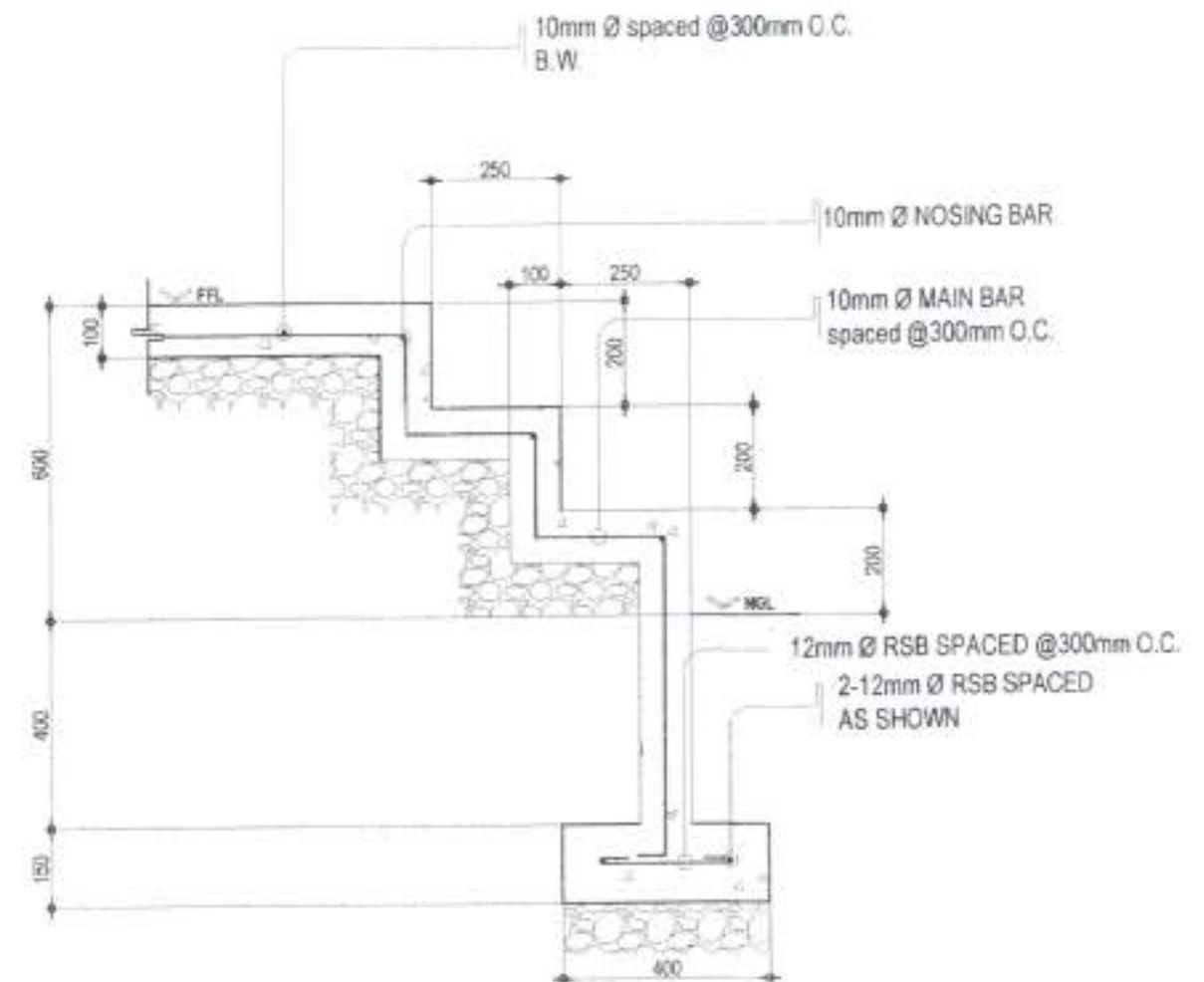
20

SHEET NO.

41



STAIR 1 PLAN
SCALE 1:30MTS.



STF-1 DETAIL

STAIR FOOTING DETAIL
SCALE 1:10MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
DANIEL C. SORIANO, REGIONAL ENGINEER
SR. KATHALUGANAN, DAVAO, DAVAO

PROJECT NAME AND LOCATION
LOCAL PROGRAM LOCAL Infrastructure Program
Buildings and other Structures, Multi-Purpose Facilities
CONSTRUCTION OF PAGASA BUILDING
(BENT, BATHS)

SHEET CONTENTS
STAIR FOOTING DETAIL

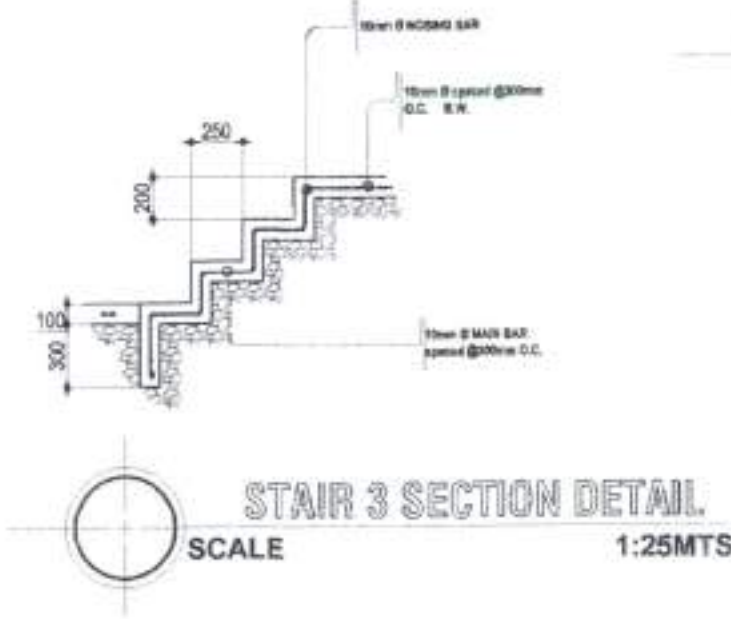
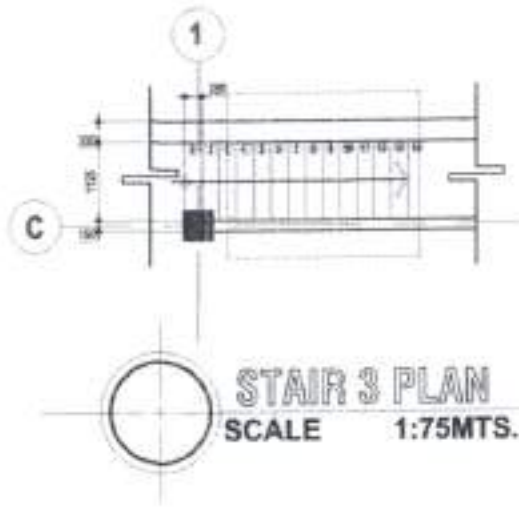
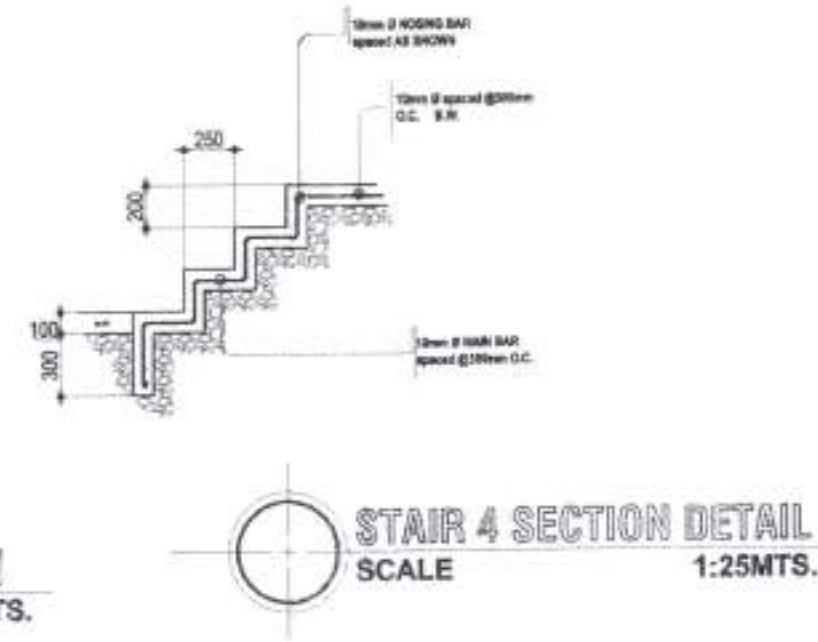
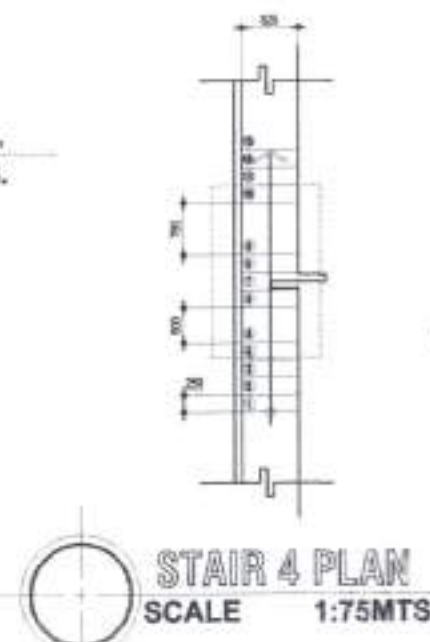
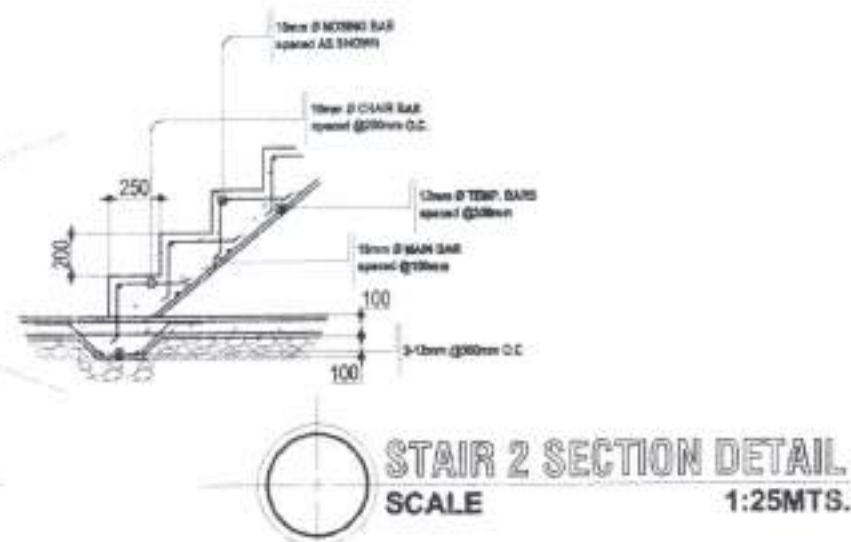
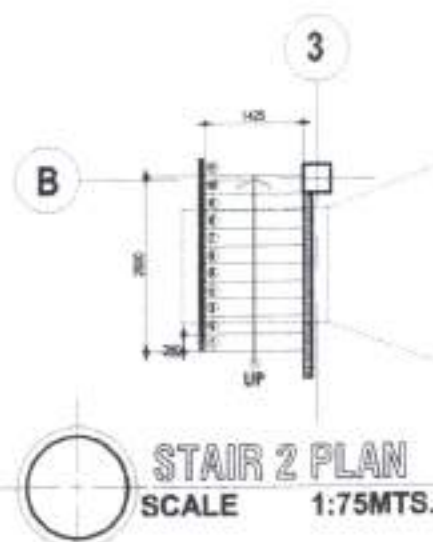
DESIGNED
KATLYN A. SORIANO
CHECKED
KATLYN A. SORIANO
PREPARED
KATLYN A. SORIANO

REVIEWED AS TO DESIGN CONCEPT
MARK ANDRE C. MORTIS
SUBMITTED
PRUDENCIAL VALDETE

RECOMMENDED
RODRICK V. MORRADO
APPROVED
RODRICK V. MORRADO

APPROVED
RODRICK V. MORRADO

SHEET NO.
S-9
21 41



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
SALANES DISTRICT ENGINEERING OFFICE
BRGY. MUYALUSAWAN, BAGO, 641200

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
Buildings and other Structures, Multi-Purpose / Facilities
CONSTRUCTION OF PAGASA BUILDING
ISSUED: 01/2018

SHEET CONTENTS
STAIR FOOTING DETAIL

DRAWN BY
KAYLA MARIE D. LARGAS
PREPARED BY
KATHLEEN KAYE C. BANGSAY

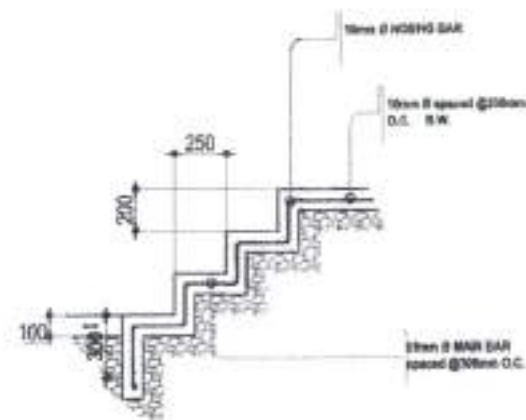
REVIEWED AS TO DESIGN CONCEPT
MARK ANDREI C. HORTIZ

DESIGNED BY
PRINCE ALAN L. ALARCON

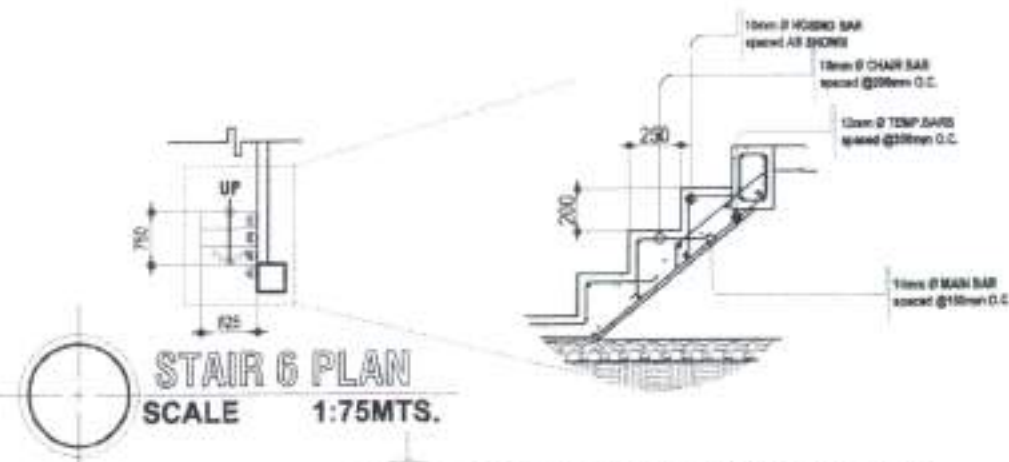
RECOMMENDED BY
RODRICK V. HORNEO

APPROVED BY
DIOSDADO C. LOMBAO

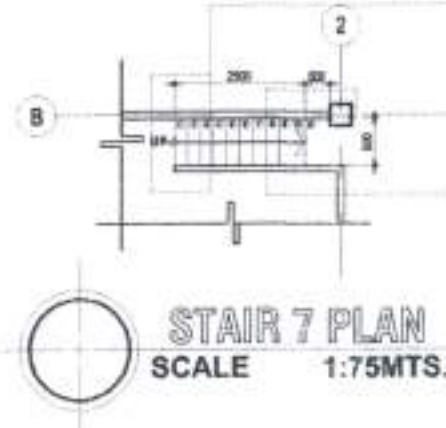
SET NO.
SHEET NO.
5-10
22 41



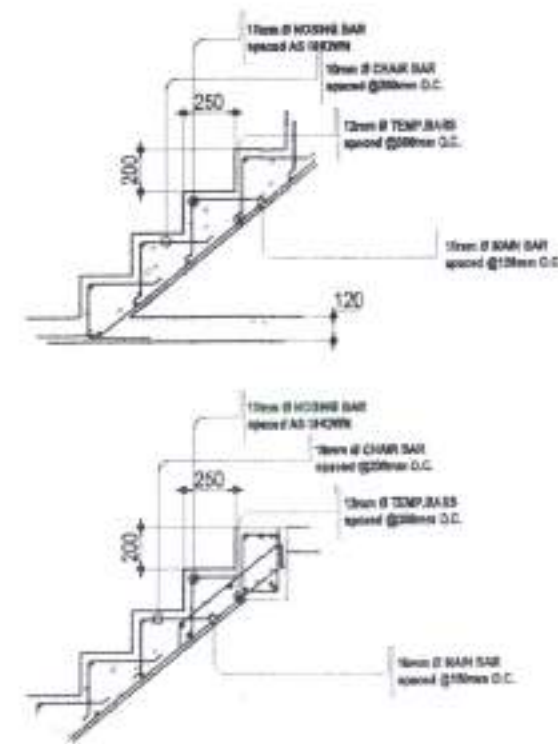
STAIR 5 SECTION DETAIL
SCALE 1:25MTS.



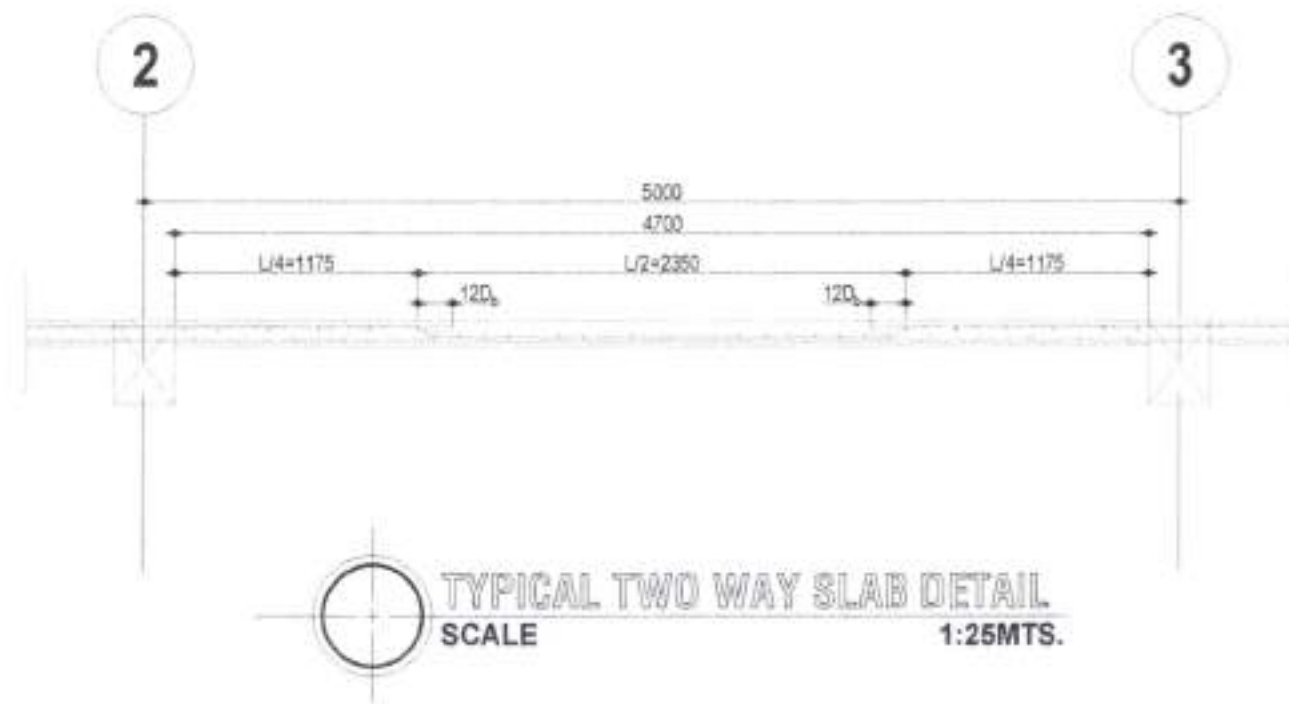
STAIR 6 SECTION DETAIL
SCALE 1:25MTS.



STAIR 7 PLAN
SCALE 1:75MTS



STAIR 7 SECTION DETAIL
SCALE 1:25MTS.



SLAB SCHEDULE

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT					REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION	
		FULL LENGTH	CURTAILED	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT		
S1	120	12mm@ 240 C/C	—	12mm@ 240 C/C	—	12mm@ 240 C/C	12mm@ 240 C/C	12mm@ 240 C/C	12mm@ 240 C/C	12mm@ 240 C/C	—



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. 2
BATANES DISTRICT ENGINEERING OFFICE
BRYL RAYVILIGAN, BASCO, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program,
Buildings and other Structures, Multi-Purpose / Facilities,
CONSTRUCTION OF PAGASA BUILDING
PROJECT: BATANES

SHEET CONTENTS
TWO WAY SLAB DETAIL,
SLAB SCHEDULE

DRAWN
KATHY-ROSE L. FARGAS
PREPARED
KATH-SENSE KAYE C. BLANCO

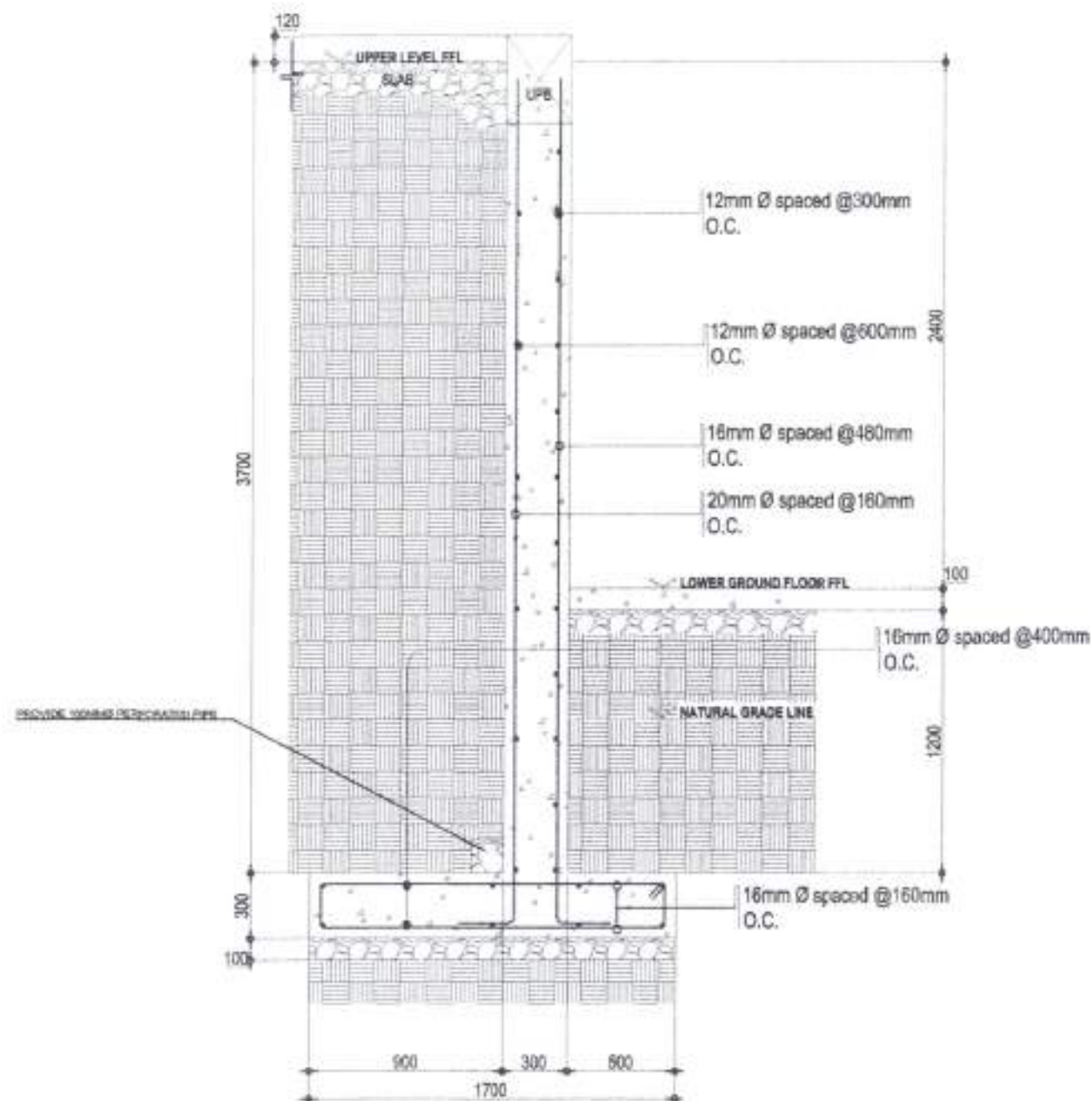
REVIEWED BY DESIGN/CONCEPT
MARK ANDRE C. HORTIZ

ELABORATED
PRUDENCE K. ALBINO

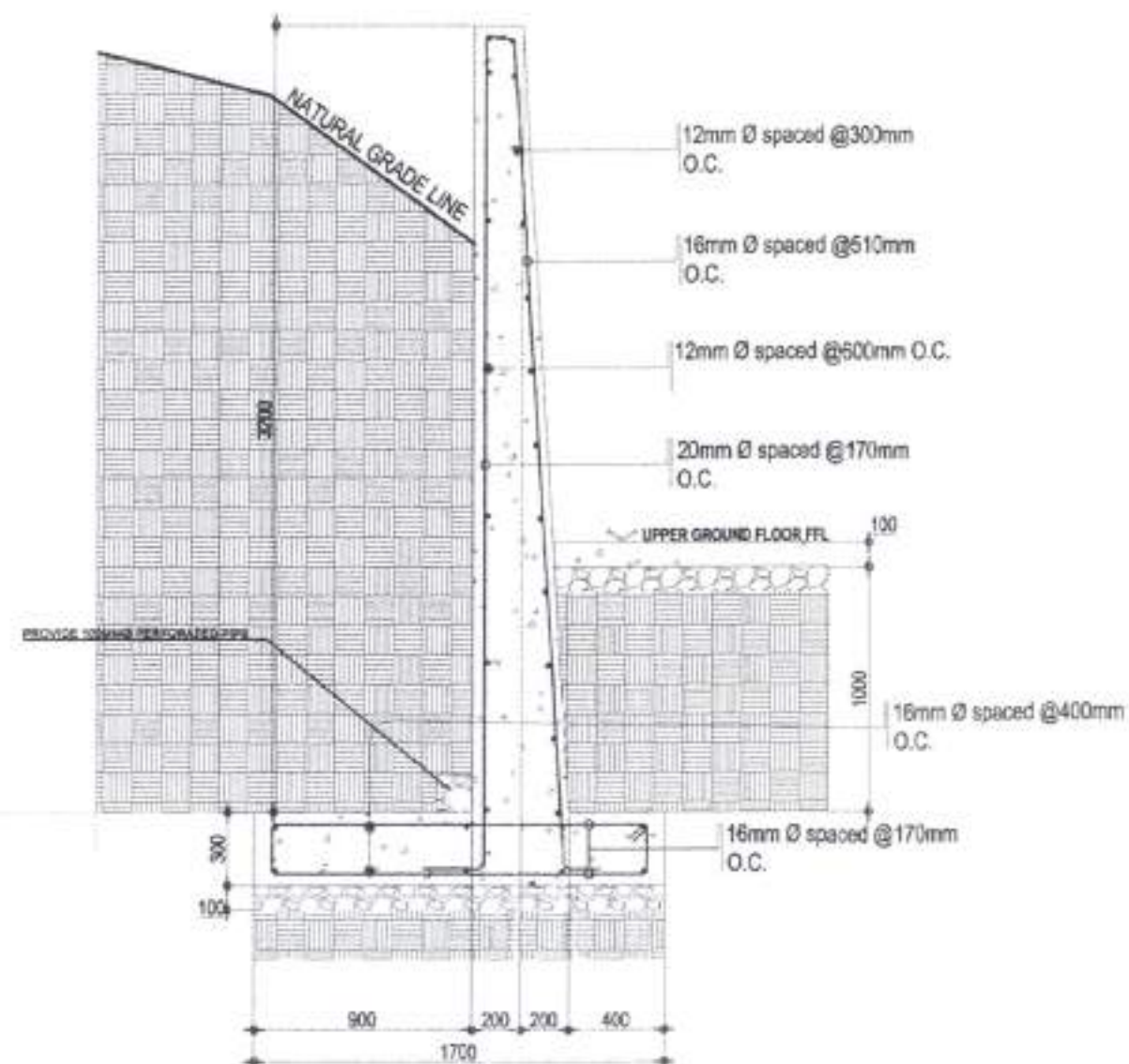
RECOMMENDED
RODRICK V. HERNANDEZ

APPROVED
DIOSDADO C. LOMBAO

SHEET NO.
5-12
24/41



RETAINING WALL 1 DETAIL
SCALE 1:20MTS.



RETAINING WALL 2 DETAIL
SCALE 1:20MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 3
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KAYVALLASAL, BANG, BATANES

PROJECT NAME AND LOCATION:
LOCAL PROGRAM: Local Infrastructure Program;
Buildings and other Structures; Multi-Purpose / Facilities;
CONSTRUCTION OF PAGASA BUILDING

ISBAT, BATANES

SHEET CONTENTS:
RETAINING WALL DETAILS

DRAFTED:
KAYLA RUIZ VARGAS
REVIEWED:
KATHLEEN RAY GUSTANGAN

REVIEWED TO DESIGN CONCEPT:
MARIANNE C. HORTA

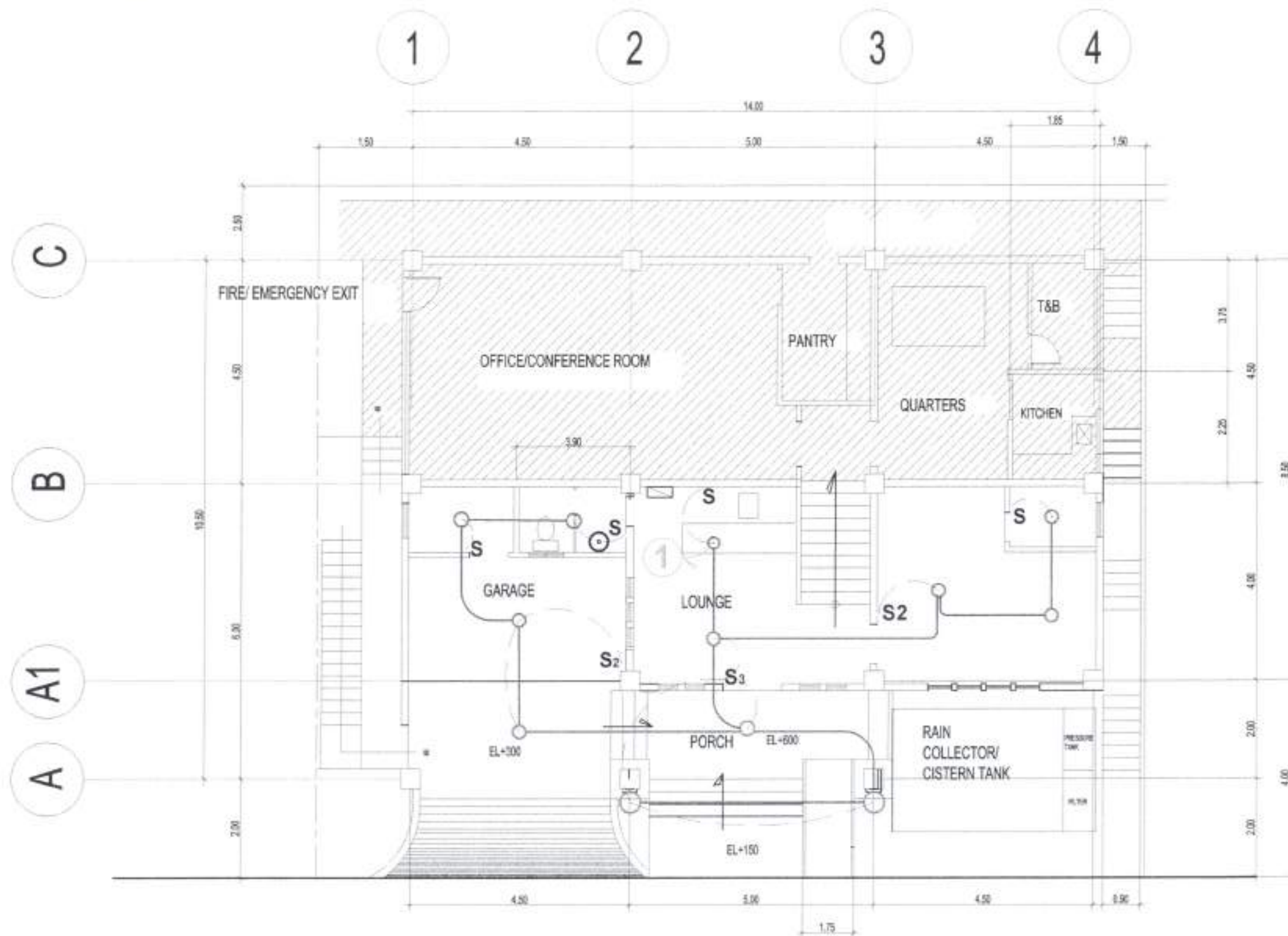
SUBMITTED:
PRUDENCIA VALENTE

RECOMMENDED:
RODRICK V. HORNEO

APPROVED:
DIOSDADO C. LOMBAG

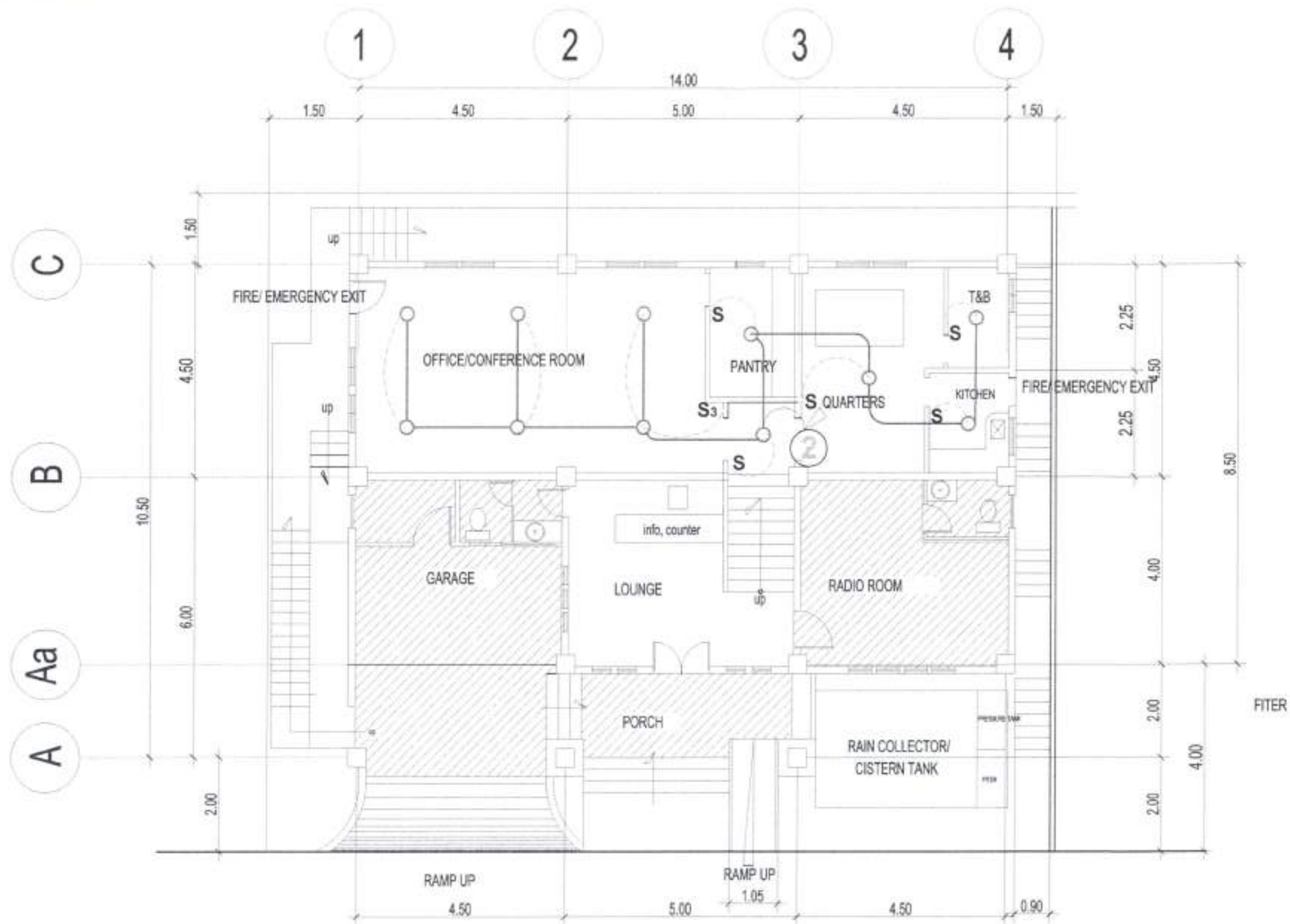
SHEET NO.
S-13

DATE
25/4/



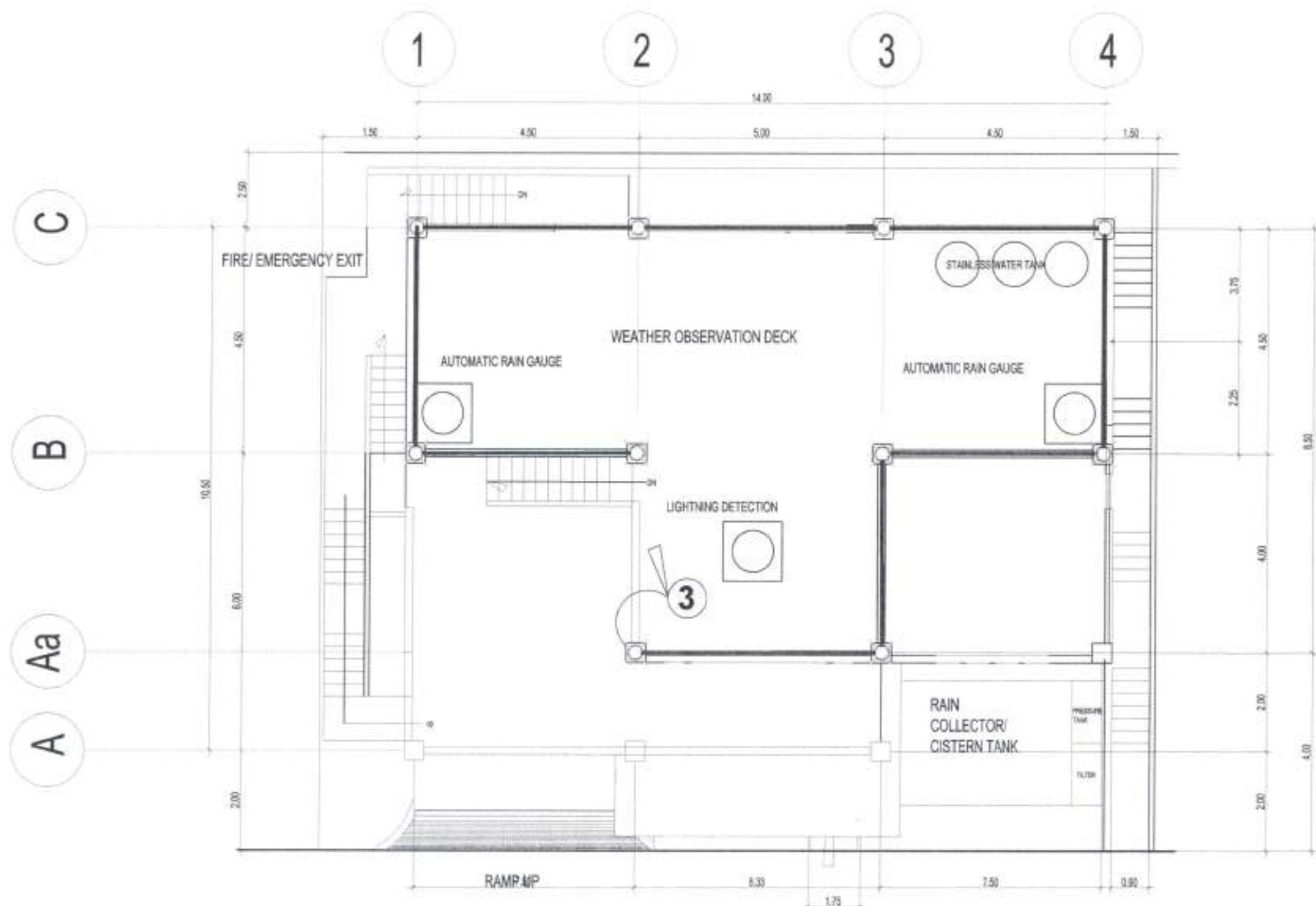
1 GROUND FLOOR LIGHTING PLAN
E-1 SCALE 1:60 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 2 BATANES DISTRICT ENGINEERING OFFICE 8957, KAYVILLAGAN, BANGU, BATANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM Local Infrastructure Program Buildings and other Structures: Multi-Purpose Facilities CONSTRUCTION OF PAGASA BUILDING</p>	<p>SHEET CONTENTS GROUND FLOOR LIGHTING PLAN</p>	<p>DRAWN BY <i>[Signature]</i> CHECKED BY <i>[Signature]</i></p>	<p>REVIEWED AS TO DESIGN CONCEPT <i>[Signature]</i> REVIEWED AS TO COST <i>[Signature]</i></p>	<p>SUBMITTED BY <i>[Signature]</i> DATE 01/11/2017</p>	<p>RECOMMENDED BY <i>[Signature]</i> RECOMMENDED BY RODRIGUEZ V. HERNANDEZ DATE 01/11/2017</p>	<p>APPROVED BY <i>[Signature]</i> APPROVED BY DIOSDADO C. LOMBARD DATE 01/11/2017</p>	<p>SET NO. E-1 SHEET NO. 28/41</p>
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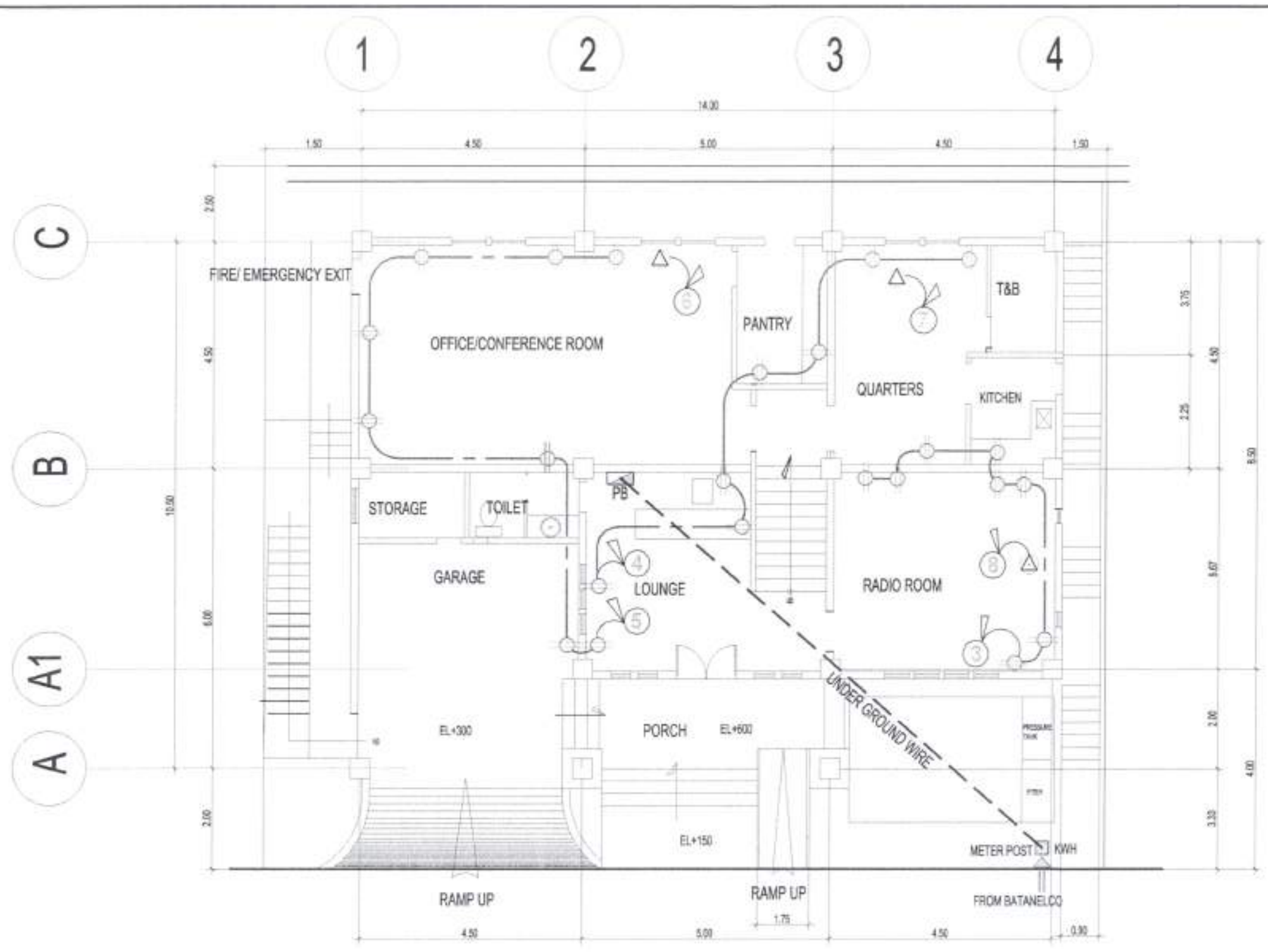
1 UPPER LEVEL LIGHTING PLAN
E-2 SCALE 1:60 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 2 BATANGAS DISTRICT ENGINEERING OFFICE BRP. BAYRULUWANG, BAYBAY, BATANGAS</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM Local Infrastructure Program Buildings and other Structures, Multi-Purpose / Facilities CONSTRUCTION OF RAJASA BUILDING</p>	<p>SHEET CONTENTS UPPER LEVEL LIGHTING PLAN</p>	<p>DRAWN:  CHECKED:  PROJECT ENGINEER: </p>	<p>REVIEWED AS TO DESIGN CONCEPT: </p>	<p>SUBMITTEE: </p>	<p>RECOMMENDED:  RODRICK V. HORRERO CITY ENGINEER</p>	<p>APPROVED:  GILBERTO C. LOMBAO DISTRICT ENGINEER</p>	<p>EET NO.:  SHEET NO.:  E-2 27/41</p>
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1 ROOF DECK LIGHTING PLAN
E-3 SCALE 1:60 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 7 BATANGAS DISTRICT ENGINEERING OFFICE BRGY. KATYUNGAN, SAN ISIDRO, BATANGAS</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM: Local Infrastructure Program Buildings and other Structures, Multi-Purpose Facilities CONSTRUCTION OF PADAGA BUILDING TINAYAT, BATANGAS</p>	<p>SHEET CONTENTS ROOF DECK LIGHTING PLAN</p>	<p>DRAWN BY </p>	<p>REVIEWED AS TO DESIGN CONCEPT </p>	<p>SUBMITTED BY </p>	<p>RECOMMENDED BY </p>	<p>APPROVED BY </p>	<p>SHEET NO. E-3 28 41</p>
---	---	---	---	--	---	---	--	------------------------------------



1
E-4
SCALE 1:60 MTS.

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. 2 BATANES DISTRICT ENGINEERING OFFICE BPOY KAYELUWANN, BAGO, BATANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM: Local Infrastructure Program Buildings and other Structures, Multi-Purpose / Facilities CONSTRUCTION OF PRASAR BUILDING</p>	<p>SHEET CONTENTS GROUND / UPPER POWER PLAN</p>	<p>DRAWN BY </p>	<p>REVIEWED BY </p>	<p>SUBMITTED BY </p>	<p>RECOMMENDED BY </p>	<p>APPROVED BY </p>	<p>SHEET NO. E-4 29 / 41</p>
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SCHEDULE OF LOADS

CKT NO.	LO	CO	SW	LOAD DESCRIPTION	VA	V	A	CIRCUIT PROTECTION	SIZE OF CONDUCTOR	SIZE OF CONDUIT
1	13		13		1,300	230	5.65 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
2	12		10		1,200	230	5.21 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
3		8			1,600	230	6.95 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
4		7			1,400	230	6.08 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
5		8			1,600	230	6.95 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
6		1		1-2.5HP ACU	2,532.3	230	11.01 A	30 AT	2-NO. 5.5MM ² THHN, CU, WIRE 1-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
7		1		1-1.0 HP ACU	1,012.00	230	4.40 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE 1-NO. 2.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
8		1		1-2.0 HP ACU	2,026.3	230	8.80 A	30 AT	2-NO. 5.5MM ² THHN, CU, WIRE 1-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
9	10		2		1,000	230	6.52 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
10	SPARE			LOAD	1,500	230	6.52 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
11	SPARE			LOAD	1,500	230	6.52 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
12	SPARE			LOAD	1,500	230	6.52 A	20 AT	2-NO. 3.5MM ² THHN, CU, WIRE	20 MMØ PVC ELECT'L PIPE
TOTAL	35	26	25						2-NO. 3.5MM ² THHN, CU, WIRE	

COMPUTATION:

General Lighting Load 147X =4,116.00 VA
 Small Appliances Load 28 =4,600.00 VA
 Total Computed Load w/o Fixed Load =8,716.00 VA

APPLICATION OF DEMAND FACTOR

First 3,000.00 VA @ 100% D.F. =3,000.00 VA
 Next 5,716.00 VA @ 35% D.F. =2,000.00 VA
 Add 1-2.5 HP ACU @ 100% D.F. + 25%(2532.30) =3,165.37 VA
 1-2.0 HP ACU @ 100% D.F. =2,026.30 VA
 1-1.0 HP ACU @ 100% D.F. =1,012.00 VA
 3 spare load @ 80% D.F. =3,600.00 VA

Total Computed Load w/ Fixed Load =14,804.27 VA

Total Computed Current FT =14,804.27 VA
 230
 =64.36 Amperes

FOR DISCONNECTING MEANS;

USE:

One. 100AT, 2P, Bolt-on type circuit breaker
 For main service entrance computer;

USE:

2- # 30MM², THHN, CU, WIRE IN A
 32MM Ø RSC PIPE SCHEDULE
 40



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 REGIONAL OFFICE NO. 5
 BATANES DISTRICT ENGINEERING OFFICE
 BRGY. KAPALUSAMAN, SANGU, BATANES

PROJECT NAME AND LOCATION
 LOCAL PROGRAM: Local Infrastructure Program
 Buildings and other Structures: Multi-Purpose / Facilities
 CONSTRUCTION OF PAGASA BUILDING

(DRAWN BY) SHINEE

DRAWING CONTENTS
 SCHEDULE OF LOADS
 COMPUTATION

DRAWN BY

SHINEE
 (Signature)

REVIEWED BY

(Signature)

SUBMITTED

(Signature)

RECOMMENDED

(Signature)

APPROVED

(Signature)

SET NO.

(Signature)

SHEET NO.

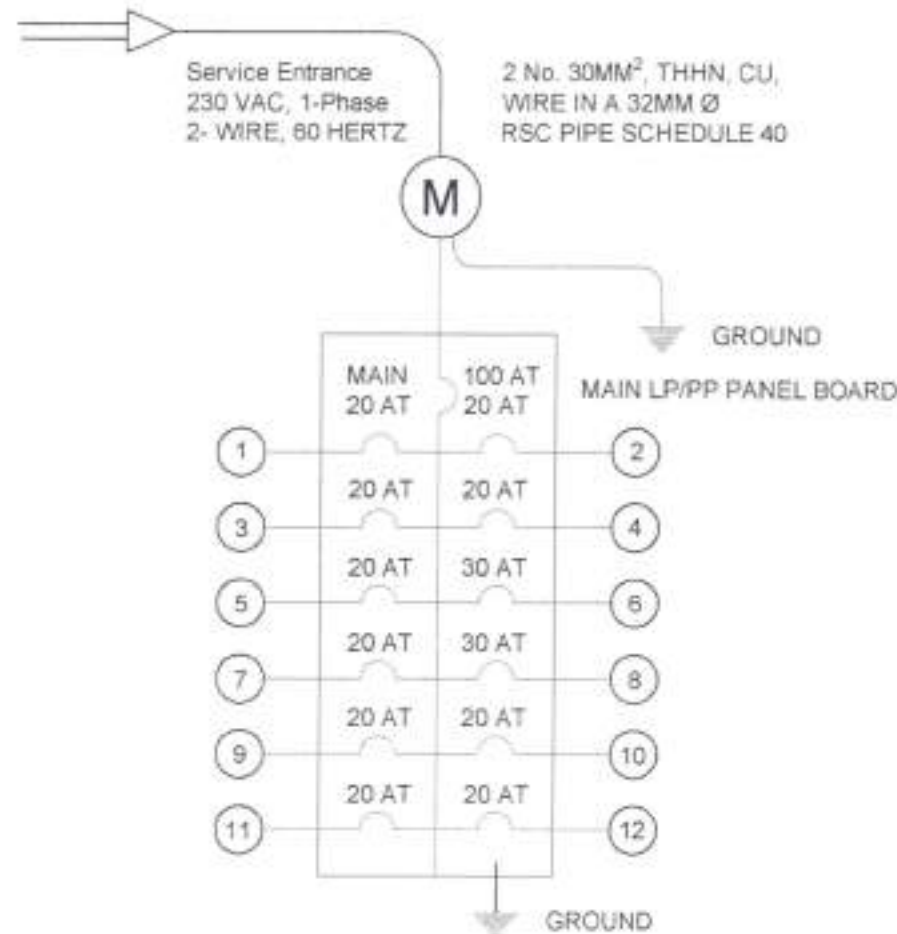
E-5
 30/41

GENERAL NOTES

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS/ PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), PART I, THE RULES AND REGULATION OF POWER COMPANY AND THE REQUIREMENTS OF THE LOCAL AUTHORITY CONCERNED.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER AS A DULY REGISTERED MASTER ELECTRICIAN.
3. THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE, 230V AC, 60Hz.
4. WIRING METHOD SHALL BE AS FOLLOWS:
a. FEEDERS AND RISERS - INTERMEDIATE METALLIC CONDUIT
b. LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
BRANCH CIRCUIT, & AUXILIARY SCH. 40.
5. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mm² TRADE/NOMINAL SIZE.

6. ALL OUTLET BOXES SHALL BE GALVANIZED GAUGE NO. 16 DEEP TYPE WITH WITH FACTORY KNOCKOUTS.
7. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
8. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
9. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
a. LIGHT SWITCH - 1.20 Meter ABOVE FINISH FLOOR
b. CONVENIENCE OUTLET - 0.30 Meter ABOVE FINISH FLOOR
c. PANEL BOARD - 1.50 Meter ABOVE FINISH FLOOR
d. FIRE ALARM STATION OUTLET - 1.50 Meter ABOVE FINISH FLOOR
e. PUSH BUTTON OUTLET - 1.20 Meter ABOVE FINISH FLOOR
f. FIRE ALARM & VIBRATING BELL - 0.30 Meter BELOW CEILING LINE

RISER DIAGRAM



LEGEND:

- CEILING LIGHT OUTLET
- S1 ONE GANG DEVICE SWITCH
- S2 TWO GANG DEVICE SWITCH
- S3 THREE GANG DEVICE SWITCH
- S3W THREE WAY DEVICE SWITCH
- Sf FAN CONTROL SWITCH

- RACEWAY CONDUIT CONCEALED IN CEILING
- RACEWAY CONDUIT CONCEALED UNDER FLOOR
- PANEL BOARD
- CIRCUIT BREAKER

- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE
- REFRIGERATOR CONVENIENCE OUTLET, GROUNDING TYPE
- RANGE CONVENIENCE OUTLET, GROUNDING TYPE
- RANGE CONVENIENCE OUTLET, GROUNDING TYPE
- HOMERUN DIRECT TO PANEL BOARD
- SERVICE METER
- SERVICE ENTRANCE
- AIR CONDITIONING UNIT

1
E-6

RISER DIAGRAM

NOT TO SCALE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
SARANES DISTRICT ENGINEERING OFFICE
BRIGAD GENERAL SERRANO, SARANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM - Local Infrastructure Program
Buildings and other Structures: Multi-Purpose / Facilities
CONSTRUCTION OF PAGASA BUILDING

ISSUED: 2020/01/01

SHEET CONTENTS
RISER DIAGRAM
GENERAL NOTES
LEGEND

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CHECKED BY: [Signature]
DATE: 2020/01/01

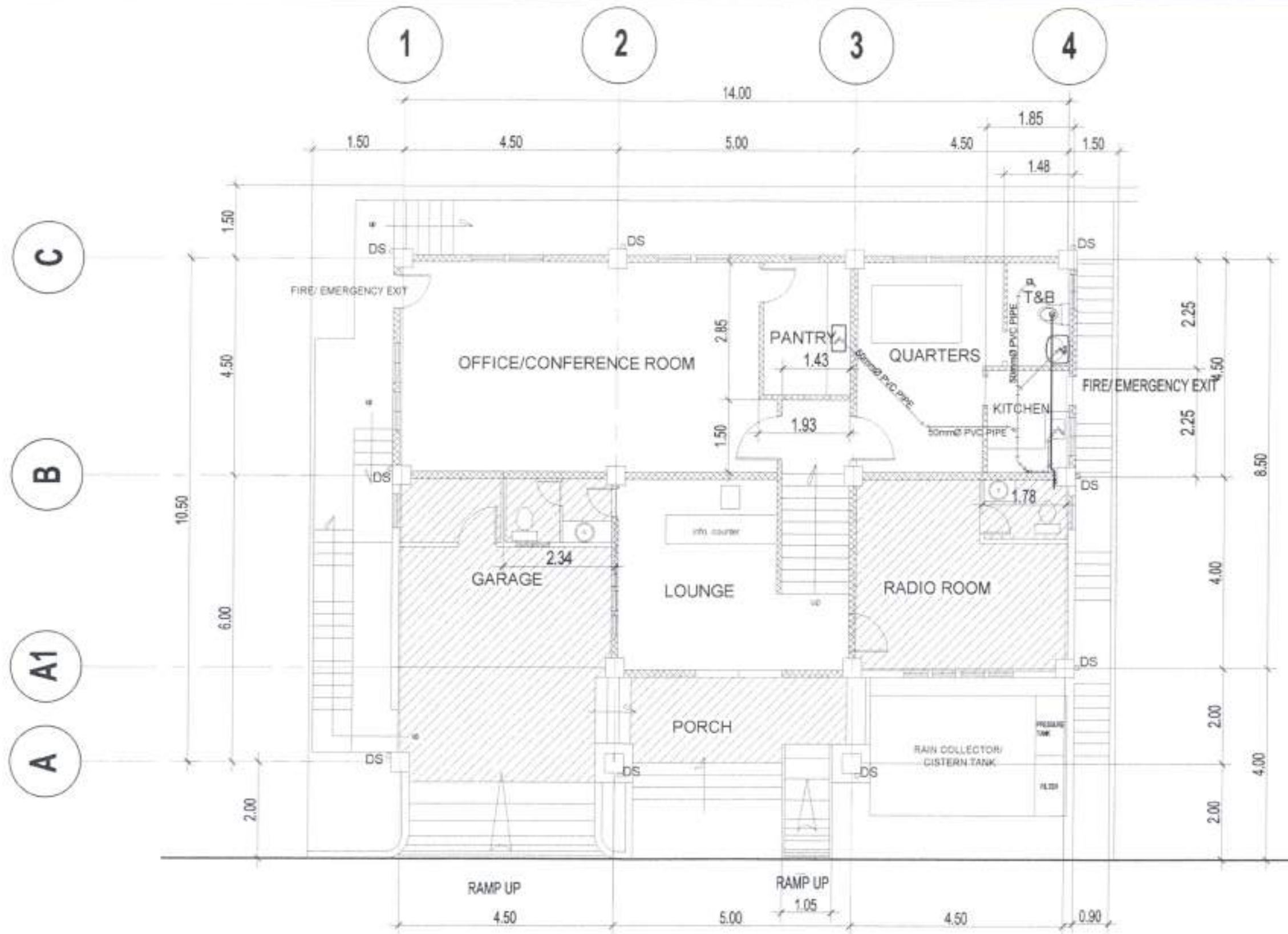
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DATE: 2020/01/01

SUBMITTED BY: [Signature]
DATE: 2020/01/01


RECOMMENDED BY: [Signature]
DATE: 2020/01/01

APPROVED BY: [Signature]
DATE: 2020/01/01

SET NO. 1
SHEET NO. 31/41



1 UPPER LEVEL PLUMBING PLAN
P-2 SCALE 1:60 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 3 BATANES DISTRICT ENGINEERING OFFICE BRGY. KATANGUNAWAN, BACOR, BATANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM: Local Infrastructure Program Buildings and other Structures: Multi-Purpose / Public CONSTRUCTION OF PANGRA BUILDING</p>	<p>SHEET CONTENTS UPPER LEVEL PLUMBING PLAN</p>	<p>DESIGNED BY <i>[Signature]</i> CHECKED BY <i>[Signature]</i></p>	<p>REVIEWED BY <i>[Signature]</i> MARKED BY <i>[Signature]</i></p>	<p>SUBMITTED BY <i>[Signature]</i> DATE 10/10/2023</p>	<p>RECOMMENDED BY <i>[Signature]</i> DATE 10/10/2023</p>	<p>APPROVED BY <i>[Signature]</i> DATE 10/10/2023</p>
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KAYVALUGANAN, BASCO, BATANES

C.Y. 2022 PROJECT
DETAILED ENGINEERING DESIGN PLAN FOR

**LOCAL PROGRAM: LOCAL INFRASTRUCTURE PROGRAM;
BUILDING AND OTHER STRUCTURES; MULTI-PURPOSE / FACILITIES;
CONSTRUCTION OF (PAGASA) BUILDING**

LOCATION: BRGY. SAN RAFAEL , ITBAYAT , BATANES


SUBMITTED:

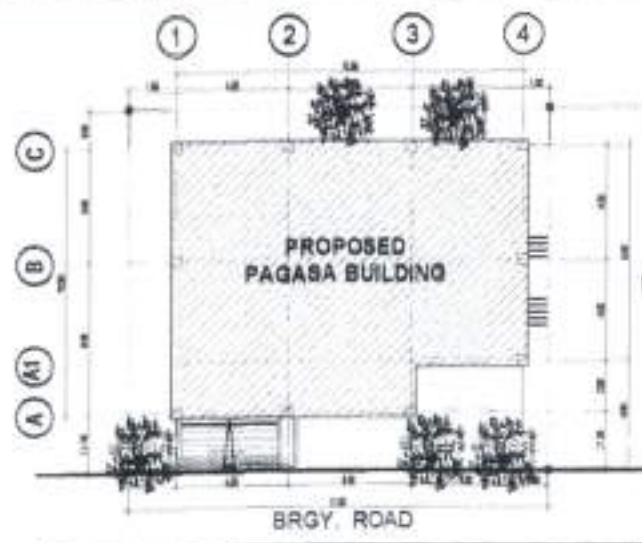
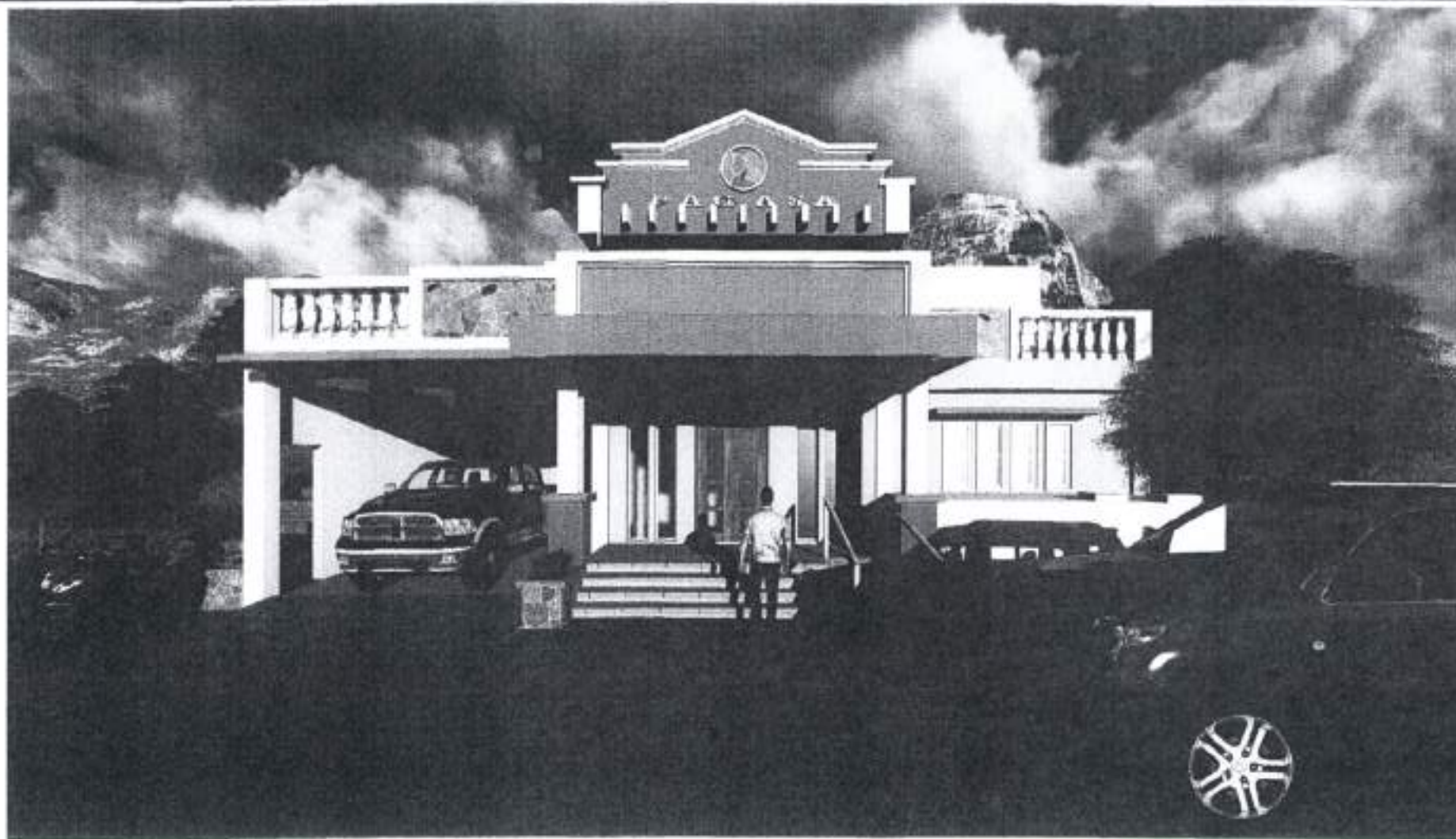

PRUDENCIO V. VALIENTE
CHIEF, PLANNING AND DESIGN SECTION
DATE: _____

RECOMMENDED:


RODERICK V. HORNEDO
OFFICER-IN-CHARGE
OFFICE OF THE ASSISTANT DISTRICT ENGINEER
DATE: _____

APPROVED:


DIOSDADO C. LOMIBAO
OFFICER-IN-CHARGE
OFFICE OF THE DISTRICT ENGINEER
DATE: _____



2 SITE DEVELOPMENT PLAN

1 PERSPECTIVE



3 VICINITY MAP

TABLE OF CONTENTS

1. COVER SHEET

ARCHITECTURAL

- 2. A1- PERSPECTIVE
- 3. A1- VICINITY MAP
- 4. A2- SUMMARY OF QUANTITIES
- 5. A3- LOWER GROUND FLOOR PLAN
- 6. A4- UPPER LEVEL FLOOR PLAN
- 7. A5- ROOF DECK PLAN
- 8. A6- FRONT ELEVATION
- 9. A7- LEFT SIDE ELEVATION
- 10. A8- RIGHT SIDE ELEVATION
- 11. A9- SECTION THRU - A
- 12. A10- SECTION THRU - B
- 13. A11- SCHEDULE OF DOORS & WINDOWS

STRUCTURAL

- 21. S11- GENERAL NOTES
- 22. S12- GENERAL NOTES
- 23. S13- GENERAL NOTES
- 24. S14- FOUNDATION PLAN
- 25. S15- SCHEDULE OF COLUMNS
- 26. S16- UPPER GROUND FLOOR FRAMING PLAN
- 27. S17- SECOND FLOOR FRAMING PLAN
- 28. S18- ROOF DECK FRAMING PLAN
- 29. S19- SCHEDULE OF BEAMS
- 30. S20- TYPICAL BEAM DETAIL
- 31. S21- TYPE OF BEAM STIRRUPS
- 32. S22- SCHEDULE OF SLABS
- 33. S23- TYPICAL SLAB DETAIL
- 34. S24- TYPICAL STAIR SECTION DETAILS

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- 2. E1- GROUND FLOOR LIGHTING PLAN
- 3. E2- UPPER LEVEL LIGHTING PLAN
- 4. E3- LOWER GROUND FLOOR PLAN
- 5. E4- UPPER LEVEL FLOOR PLAN
- 6. E5- ROOF DECK PLAN
- 7. E6- FRONT ELEVATION
- 8. E7- LEFT SIDE ELEVATION
- 9. E8- RIGHT SIDE ELEVATION

PLUMBING

- 2. P1- GROUND FLOOR PLUMBING PLAN
- 3. P2- UPPER LEVEL PLUMBING PLAN
- 4. P3- ROOF DECK PLUMBING PLAN
- 5. P4- GROUND FLOOR WATERLINE PLAN
- 6. P5- UPPER LEVEL WATERLINE PLAN
- 7. P6- ROOF DECK WATERLINE PLAN
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- 9. P8- UPPER LEVEL ISOMETRIC PLAN
- 10. P9- SEPTIC TANK DETAIL
- 11. P10- CISTERN TANK

REPUBLIC OF THE PHILIPPINES
MUNICIPALITY OF BAYAN
DISTRICT ENGINEERING OFFICE

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

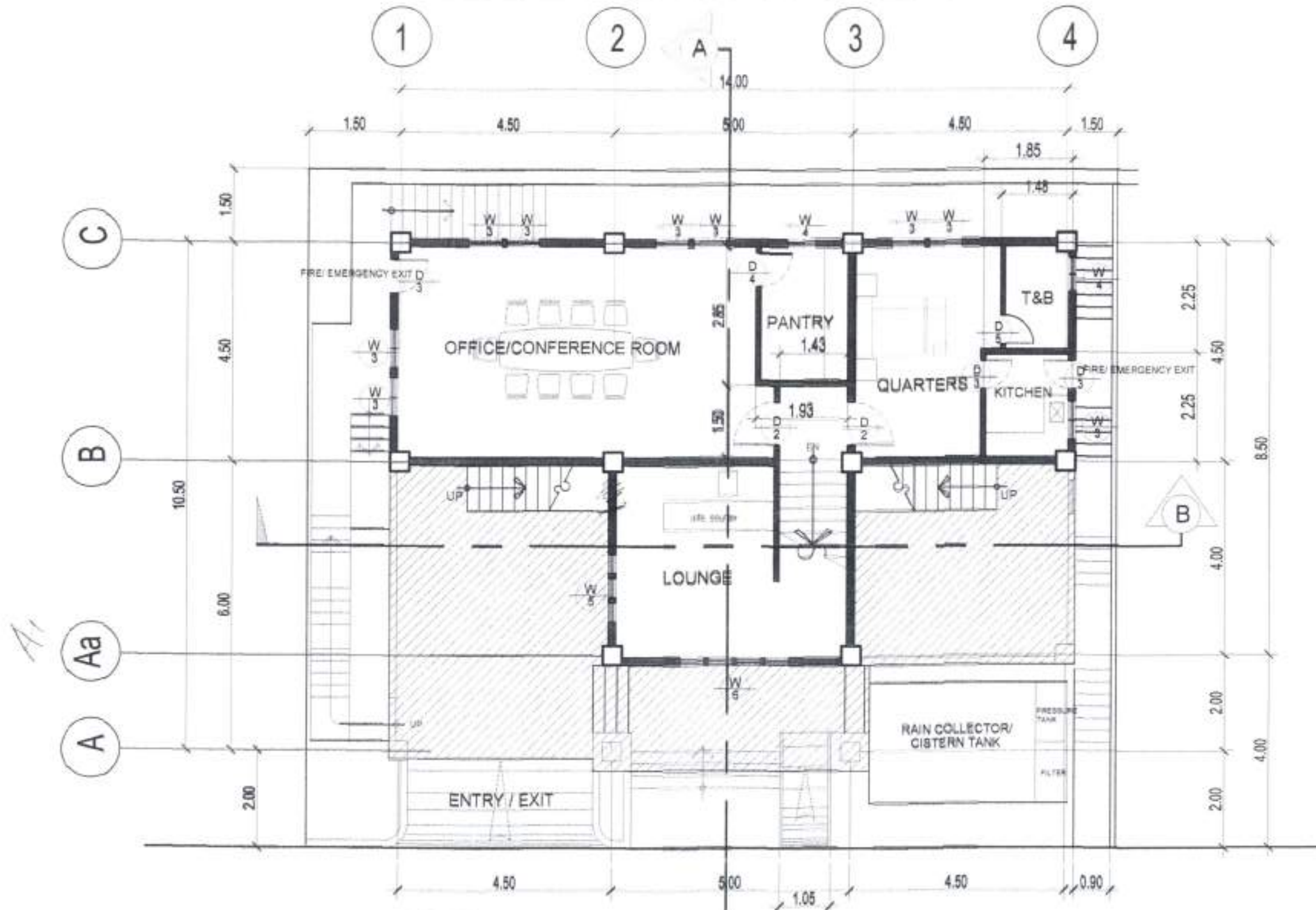
STRUCTURAL

SANITARY

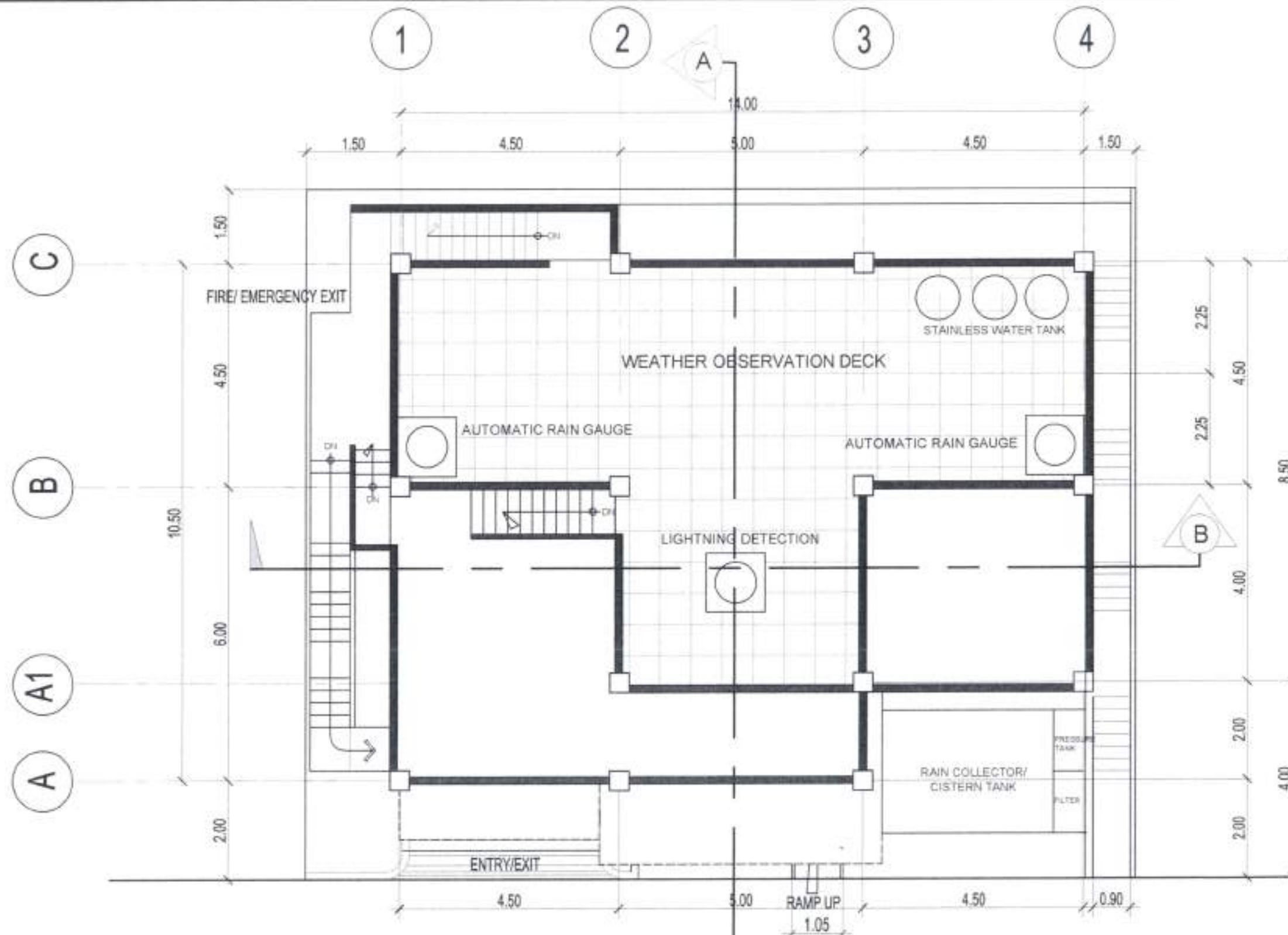
ELECTRICAL

MECHANICAL





1 UPPER LEVEL
A-4 SCALE 1:60 MTS.



1 ROOF DECK PLAN
A-5 SCALE 1:60 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
8901 ARAPOGAWAN, BANGAL, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
Buildings and other Structures, Multi-Purpose (Facilities)
CONSTRUCTION OF PRAGA BUILDING

PROJECT NAME

SHEET CONTENTS
ROOF DECK PLAN

DRAWN

DESIGNED
CHECKED
APPROVED

APPROVED AS TO DESIGN CONCEPT

DESIGNED
CHECKED
APPROVED

SUBMITTED

DESIGNED
CHECKED
APPROVED

RECOMMENDED

DESIGNED
CHECKED
APPROVED

APPROVED

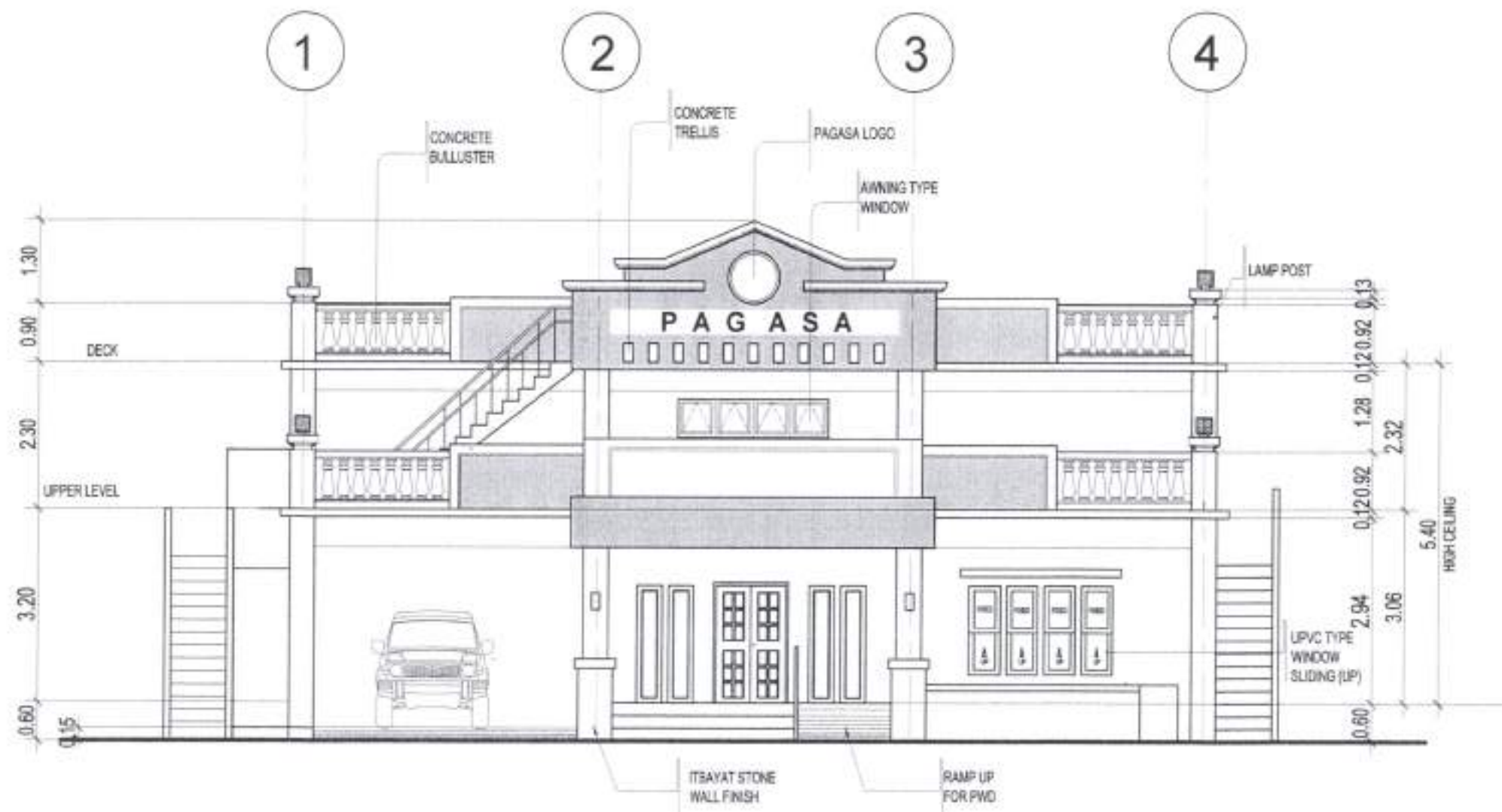
DESIGNED
CHECKED
APPROVED

SHEET NO.

NO. 6

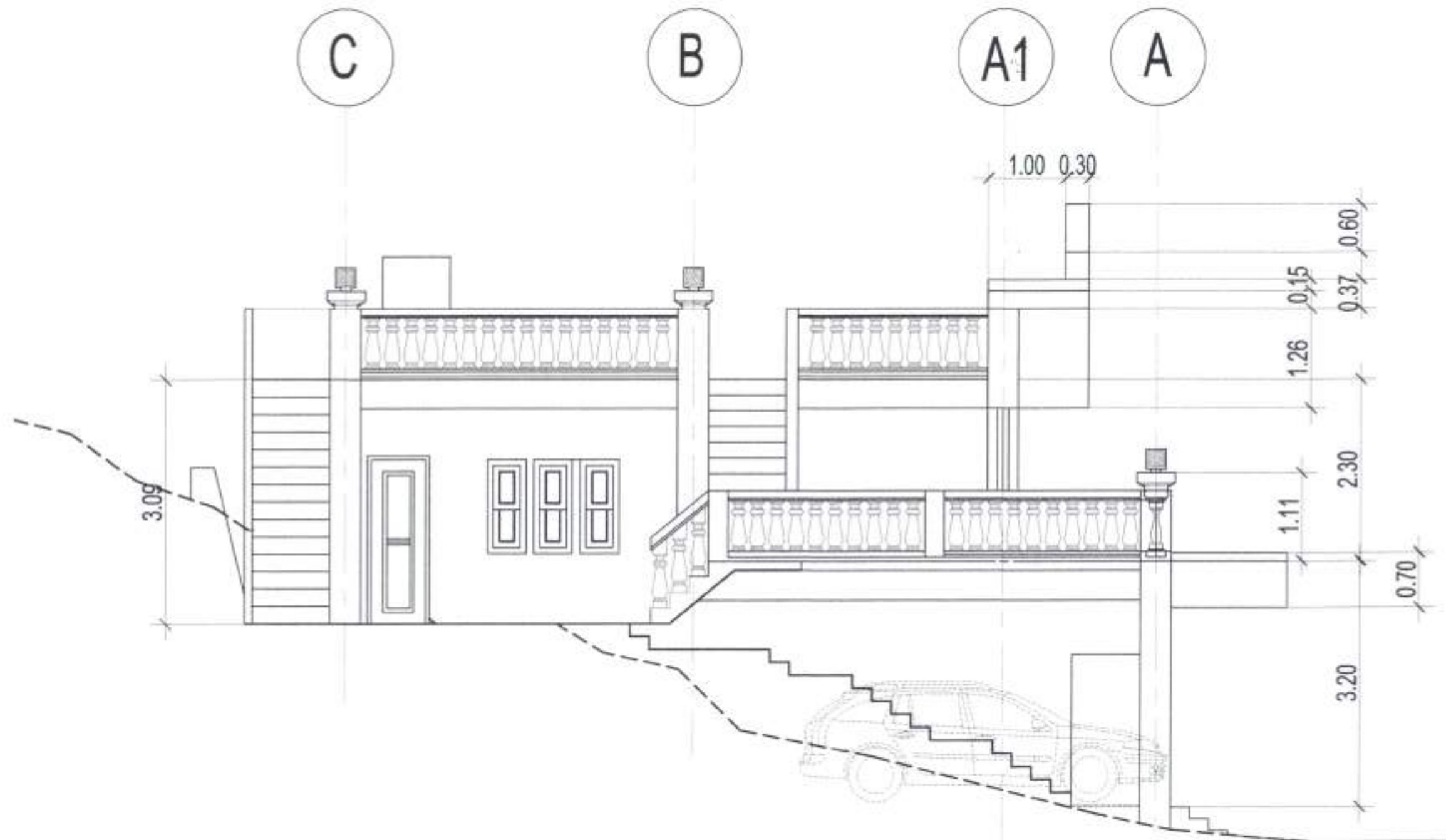
SHEET NO.

A-5 41



1 FRONT ELEVATION
A-6 SCALE 1:60 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 7 BAYANES DISTRICT ENGINEERING OFFICE BAYAN ANTAYALLIGAN, BAYAN, BAYANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM Local Infrastructure Program Buildings and other Structures, Multi-Purpose Facilities CONSTRUCTION OF PAGASA BUILDING</p> <p>PROJECT NO. 123456</p>	<p>SHEET CONTENTS FRONT ELEVATION</p>	<p>DRAWN </p>	<p>REVIEWED AS TO DESIGN CONCEPT </p>	<p>SUBMITTED </p>	<p>RECOMMENDED </p>	<p>APPROVED </p>	<p>SET NO. 1 SHEET NO. 1 A-6 7 41</p>
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1
A-7

LEFT SIDE ELEVATION

SCALE

1:60

MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BRIG. KAYUNLOMAN, BASCO, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM Local Infrastructure Program
Buildings and other Structures, Multi-Purpose / Facilities
CONSTRUCTION OF PADABA BUILDING

DESIGNER: SATWES

SHEET CONTENTS
LEFT SIDE ELEVATION

DRAFTED

[Signature]
ESTHER A. SANTIAGO

PREPARED

ROBIN E. DAVIDOS

REVIEWED AS TO DESIGN CONCEPT

[Signature]
ROBERTO V. MENDOZA

SUBMITTED

[Signature]
ESTHER A. SANTIAGO

RECOMMENDED

[Signature]
ROBERTO V. MENDOZA

APPROVED

[Signature]
ROBERTO V. MENDOZA

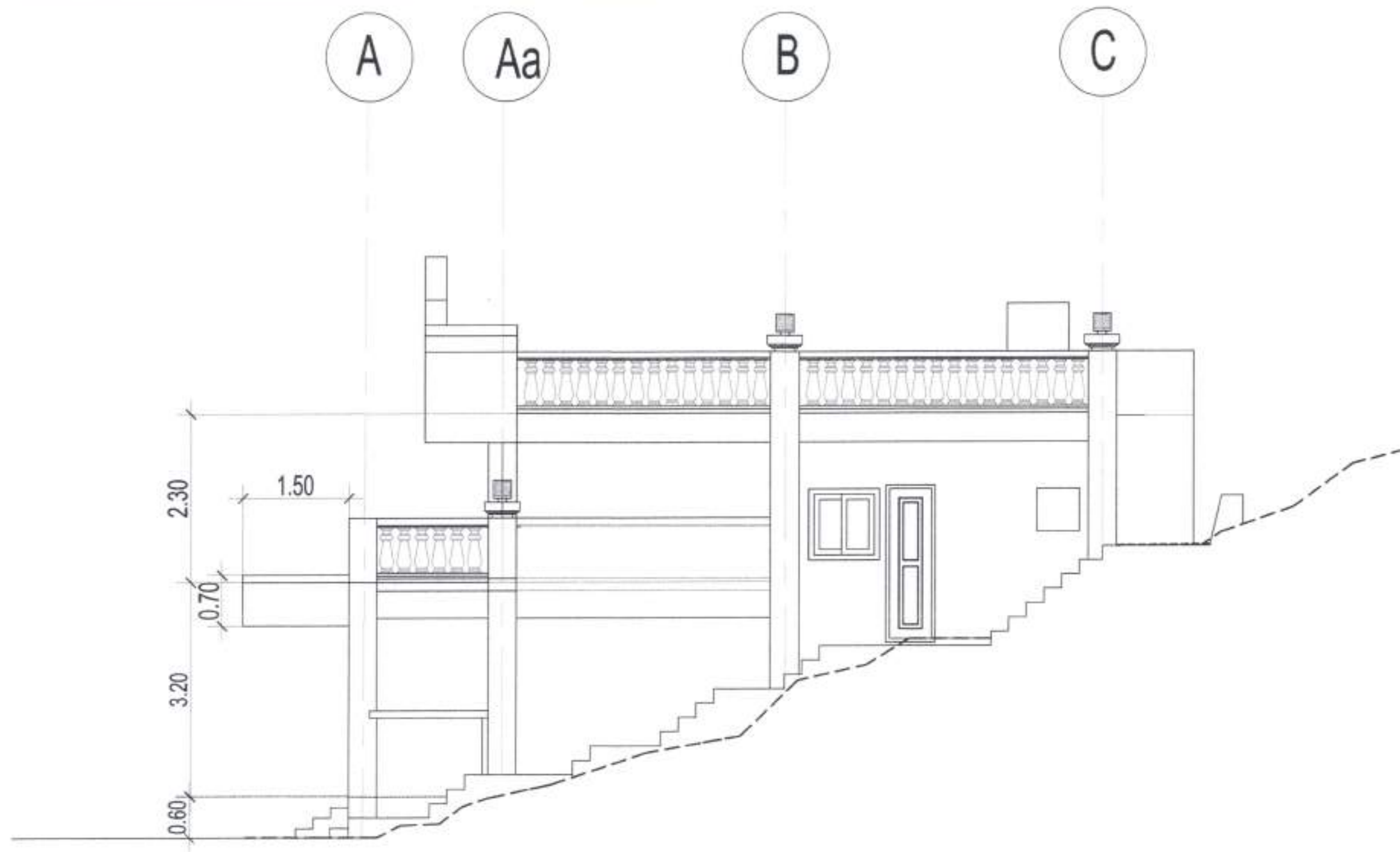
SHEET NO.

101

SHEET NO.

A-7

8 41



1
A-8

RIGHT SIDE ELEVATION

SCALE

1:60

MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANGAS DISTRICT ENGINEERING OFFICE
BRGY. KATYALAMAHAN, SILOCO, BATANGAS

PROJECT NAME AND LOCATION
LOCAL PROGRAM Local Infrastructure Program
Buildings and other Structures: Multi-Purpose / Facilities
CONSTRUCTION OF RADESA BUILDING

PROJECT NUMBER

SHEET CONTENTS
RIGHT SIDE ELEVATION

DRAWN BY

ROBIN E. DAVOODS

DATE

REVIEWED AS TO DESIGN CONCEPT

REVIEWED AS TO DESIGN CONCEPT

DATE

APPROVED

APPROVED

DATE

REVIEWED

REVIEWED

DATE

APPROVED

APPROVED

DATE

SHEET NO.

SHEET NO.

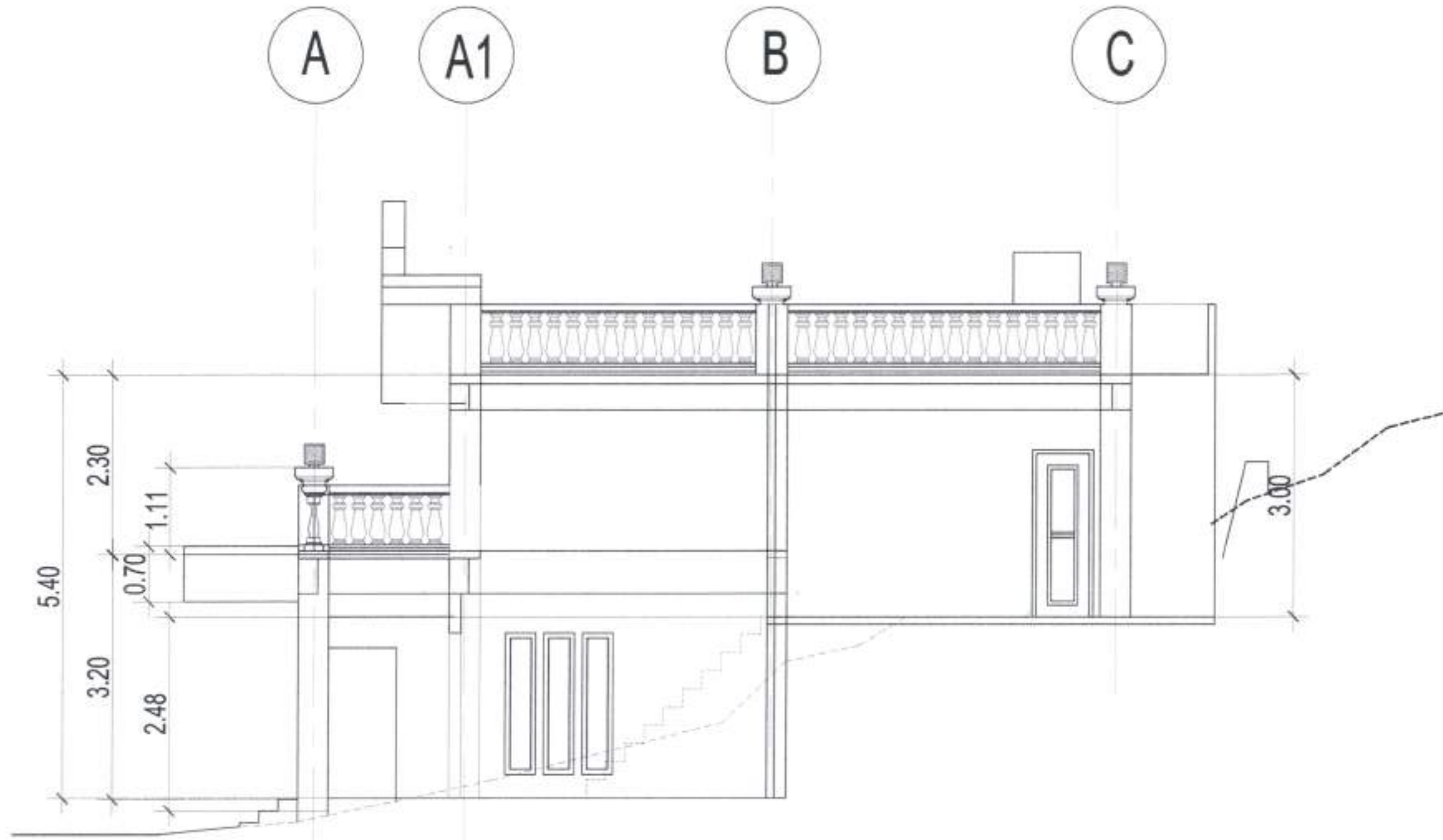
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SHEET NO.

SHEET NO.

DATE

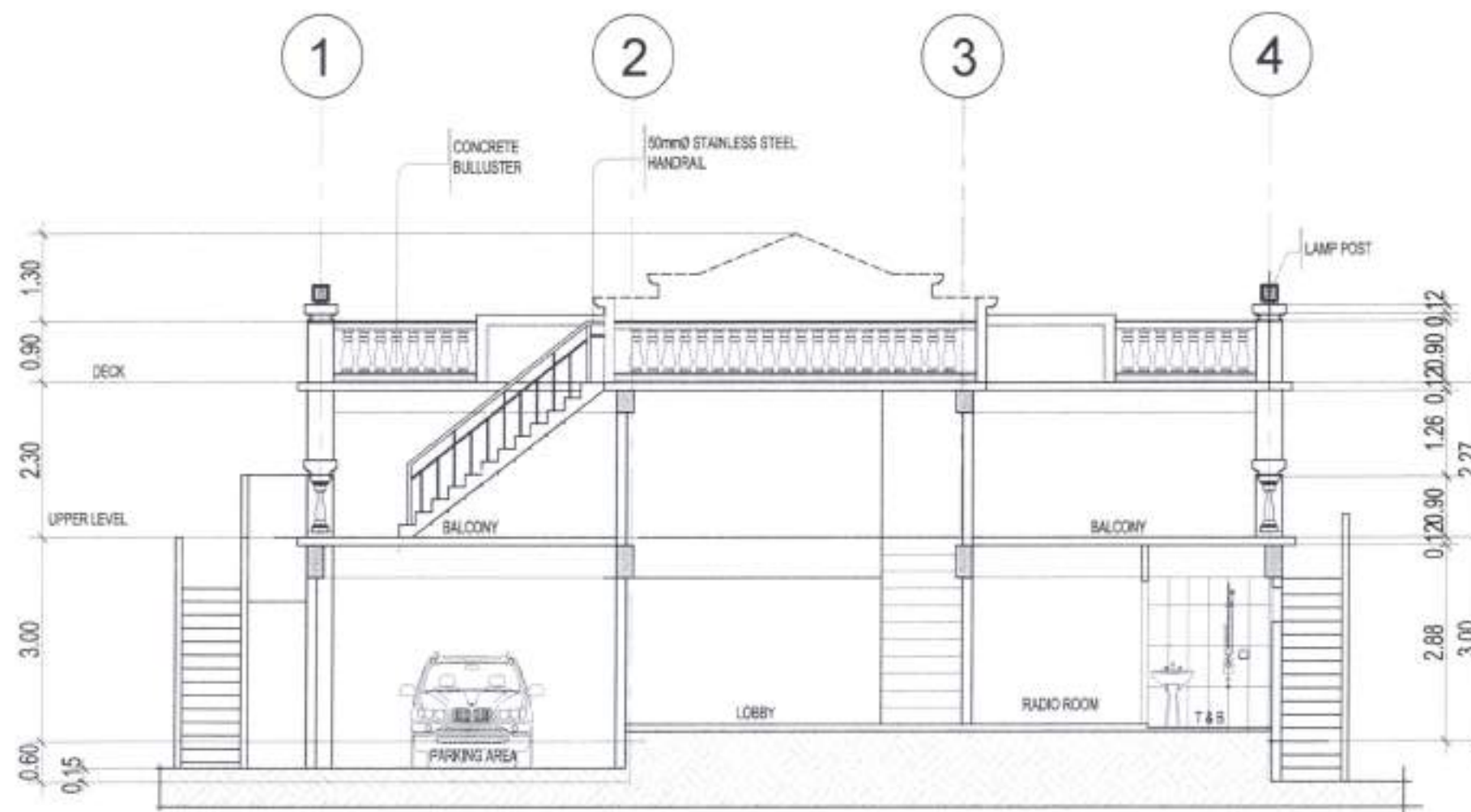
A-8
S 41



1
A-9

SECTION THRU-A
SCALE 1:60 MTS.

 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 2 BATANES DISTRICT ENGINEERING OFFICE BRGY. KATHULGARAN, BASCO, BATANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM: Local Infrastructure Program Buildings and other Structures, Multi-Purpose / Facilities CONSTRUCTION OF PADAMA BUILDING</p>	<p>SHEET CONTENTS SECTION THRU - A</p>	<p>DRAWN BY J. L. L. L.</p> <p>CHECKED BY J. L. L. L.</p>	<p>REVIEWED AS TO DESIGN CONCEPT J. L. L. L.</p>	<p>SUBMITTED J. L. L. L.</p>	<p>RECOMMENDED R. H. H. H.</p>	<p>APPROVED J. L. L. L.</p>	<p>SHEET NO. 10</p> <p>SHEET NO. 41</p>
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1
A-10

SECTION THRU-B

SCALE 1:60 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE No. 2
BATANES DISTRICT ENGINEERING OFFICE
BRGY. KAPPAUSANAN, BANGS, BATANES

PROJECT NAME AND LOCATION
LOCAL PROGRAM: Local Infrastructure Program
BUILDING AND OTHER STRUCTURES: Multi-Purpose Facilities
CONSTRUCTION OF IRIGASA BUILDING

DESIGNED BY: BERNARD

SHEET CONTENTS
SECTION THRU - A

DATE: 10/10/2018

DESIGNED BY: BERNARD
CHECKED BY: [Signature]
APPROVED BY: [Signature]

REVIEWED AS TO DESIGN CONCEPT

REVIEWED BY: [Signature]
DATE: 10/10/2018

SUBMITTED

FOR: [Signature]
DATE: 10/10/2018

RECOMMENDED

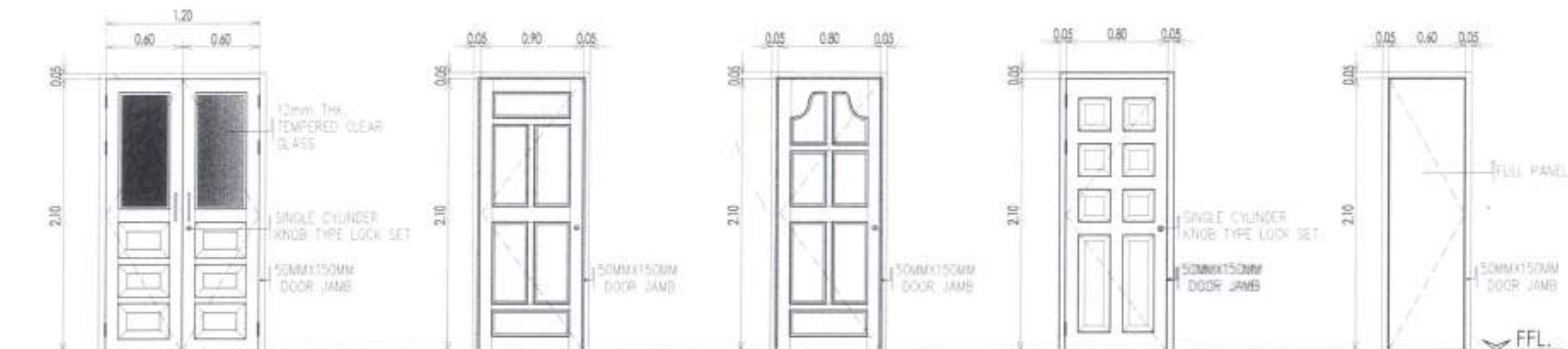
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DATE: 10/10/2018

APPROVED

APPROVED BY: [Signature]
DATE: 10/10/2018

SET NO.

1
A-10
1/41



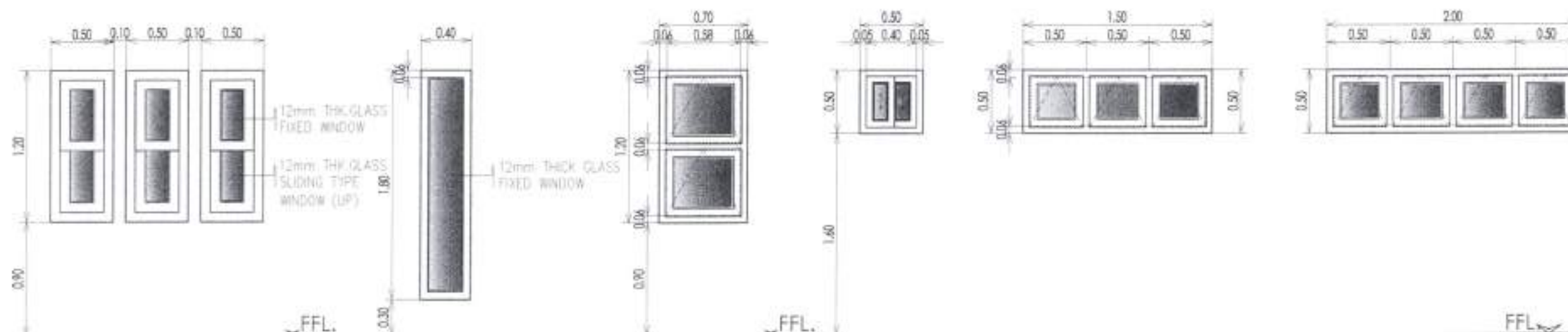
D-1
PANEL TYPE DOOR HARDWOOD
WITH 50mm X 150mm HARDWOOD
DOOR JAMB
1 SETS

D-2
PANEL TYPE DOOR HARDWOOD
WITH 50mm X 150mm HARDWOOD
DOOR JAMB
3- SETS

D-3
PANEL TYPE DOOR HARDWOOD
WITH 50mm X 150mm HARDWOOD
DOOR JAMB
3- SETS

D-4
PANEL TYPE DOOR HARDWOOD
WITH 50mm X 150mm HARDWOOD
DOOR JAMB
1- SET

D-5
PVC VIGNET (BROWN)
3- SETS



W-1
PVC TYPE WINDOW (WHITE)
1 SETS

W-2
PVC TYPE WINDOW (WHITE)
7 SETS

W-3
PVC TYPE WINDOW (WHITE)
9 SETS

W-4
PVC TYPE SLIDING WINDOW (WHITE)
5 SETS

W-5
PVC TYPE AWNING WINDOW (WHITE)
1 SET

W-6
PVC TYPE AWNING WINDOW (WHITE)
1 SET

1
A-11

SCHEDULE OF DOORS & WINDOWS

SCALE

1:60

MTS.

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. 2 BATANES DISTRICT ENGINEERING OFFICE BRGY. BAYANGUNGAN, BANGAL, BATANES</p>	<p>PROJECT NAME AND LOCATION LOCAL PROGRAM: Local Infrastructure Program, Buildings and other Structures, Multi-Purpose Facilities, CONSTRUCTION OF PASAGA BUILDING</p>	<p>SHEET CONTENTS SCHEDULE OF DOORS AND WINDOWS</p>	<p>DRAWN BY <i>[Signature]</i></p>	<p>REVIEWED AS TO DESIGN/CONCEPT <i>[Signature]</i></p>	<p>QUANTIFIED <i>[Signature]</i></p>	<p>RECOMMENDED <i>[Signature]</i></p>	<p>APPROVED <i>[Signature]</i></p>	<p>SHEET NO. 12</p>	<p>SHEET NO. A-11</p>
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