8. **Core Coil Assembly** uses a superior transformer insulation system and is permanently centered in the tank using a close fitted steel frame. Materials used for our coils are either silicon-iron for our blue and silver series or Amorphous metal for our gold line.

9. **Winding Material**, distribution transformer uses a combination of standard copper-aluminum or copper-copper winding materials.

10. **Insulating –Di- Electric Fluid**, used are either mineral oil or an environment friendly high fire point fluid.

11. **Coil Support** used compatible materials to hold the coil in place and restrain it during short circuit-circuit conditions. Core clamps and clamp angles are also used to ensure that the core and windings are effectively secured even during mechanical stress.

EXECUTION

INSTALLATION

Shall be in accordance with the code and requirements specified herein.

GROUNDING

Ground all exposed non-current-carrying metallic parts of electrical equipment.

WORKMANSHIP

The work throughout shall be executed in the best and most thorough manner under the direction of and at the satisfaction of the Registered Electrical Engineer or Master Electrician, who will interpret the intent meaning of the drawings and specification and shall have the power to reject any work and materials which in his judgment, are not in full accordance therewith.

TESTING OPERATIONS

When the electrical installation is completed, the Contractor shall test the installed electrical materials and equipment in the presence of Registered Electrical Engineer or Master Electrician. The system shall be free from any defects, shorts or grounds. The Contractor at no extra cost shall furnish all necessary instruments and personnel required for the testing.

GUARANTEE

Upon completion and before final acceptance of the work, the Contractor shall furnish the Engineer with a written guarantee stating that all works executed are free from defects on materials and workmanship. The guarantee shall be for a period of one year from the date of final acceptance. Any work that becomes defective during the said period shall be corrected / replaced by the Contractor at his own expense in a manner satisfactory to the Authority.

ITEM 32 : PROJECT BILLBOARD

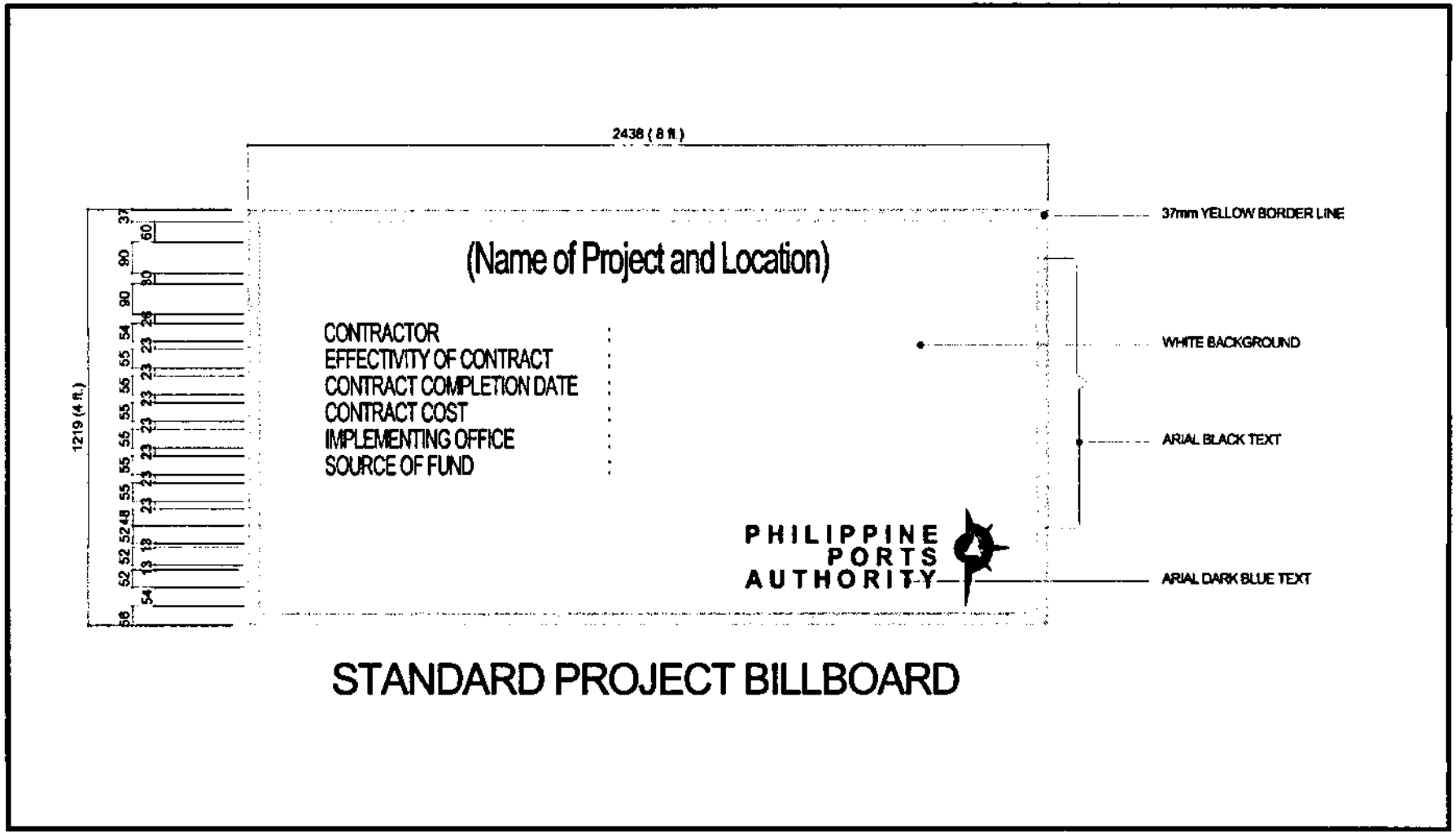
SPECIFICATION

The Project Billboard shall be installed at location(s) designated by the Engineer.

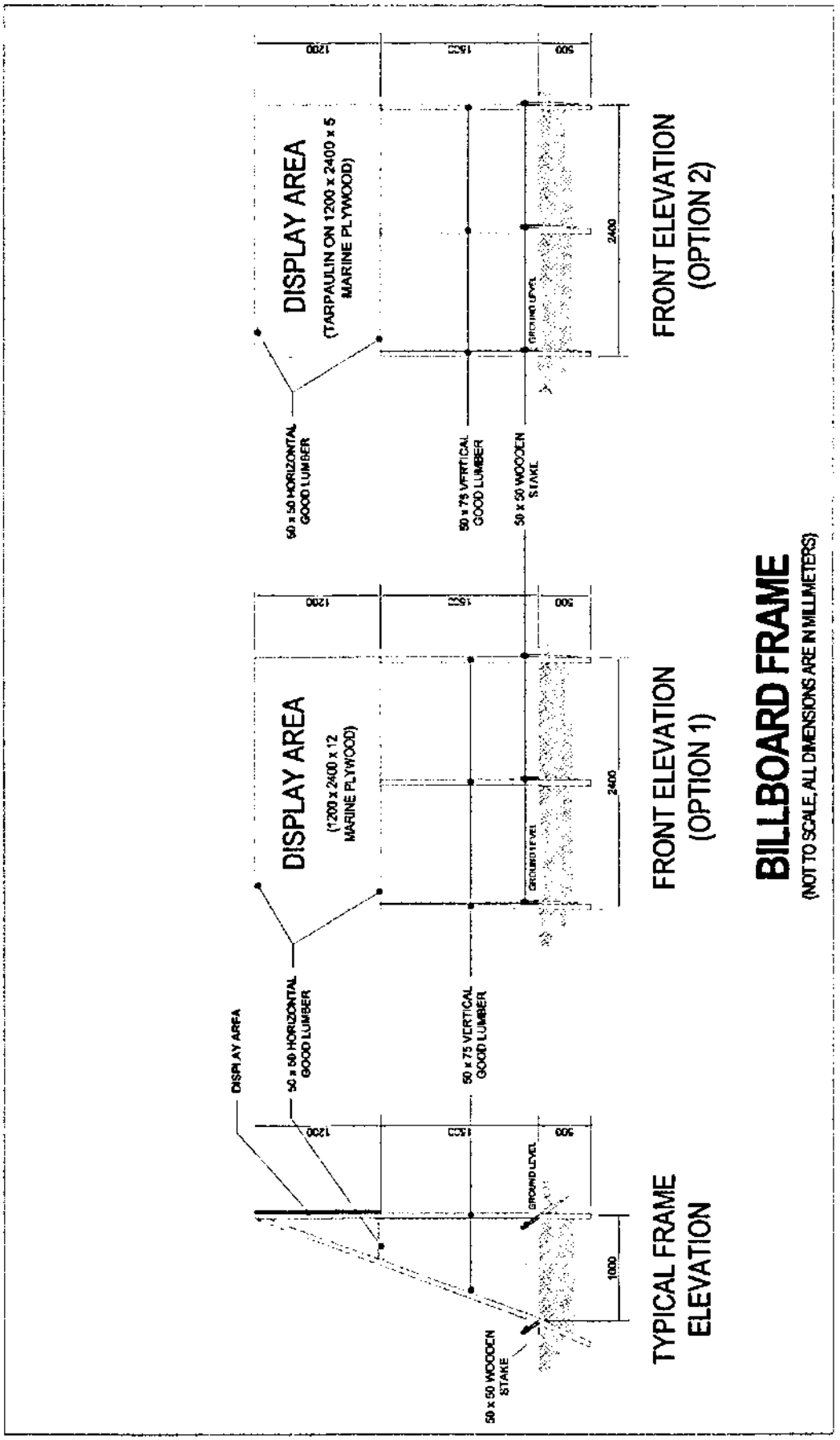
The size and specifications of materials for the standard billboard shall be 4ft. x 8ft. (1,200mm x 2,400mm) using ½ inch (12mm) marine plywood or tarpaulin poster on 3/16 inch (5mm) marine plywood.

Project billboards shall not contain Name(s) and/or picture(s) of any personages.

See attached drawings for further details of the standard billboard.



STANDARD PROJECT BILLBOARD


BILLBOARD FRAME
(NOT TO SCALE, ALL DIMENSIONS ARE IN MILLIMETERS)
TYPICAL FRAME ELEVATION
DISPLAY AREA
50 x 50 HORIZONTAL GOOD LUMBER
50 x 75 VERTICAL GOOD LUMBER
50 x 50 WOODEN STAKE
GROUND LEVEL
1200
1500
500
1000
FRONT ELEVATION (OPTION 1)
DISPLAY AREA
(1200 x 2400 x 12 MARINE PLYWOOD)
2400
FRONT ELEVATION (OPTION 2)
DISPLAY AREA
(TARPAULIN ON 1200 x 2400 x 5 MARINE PLYWOOD)

ITEM 33 : SAFETY SIGNAGES AND BARRICADES

DESCRIPTION

This work includes the furnishing and installing of safety signages and barricades in accordance with the specifications and to the details shown below in the drawings, or as directed by the Engineer.

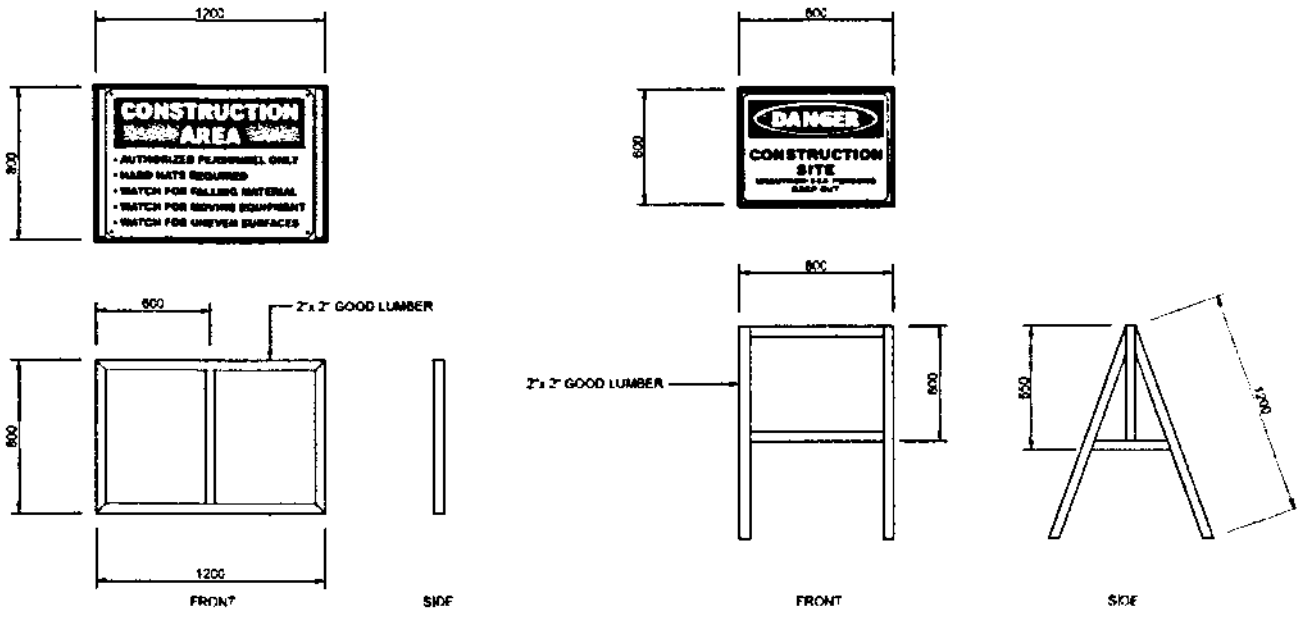
SPECIFICATION

The Signage's and Barricades shall be installed at location(s) designated by the Engineer.

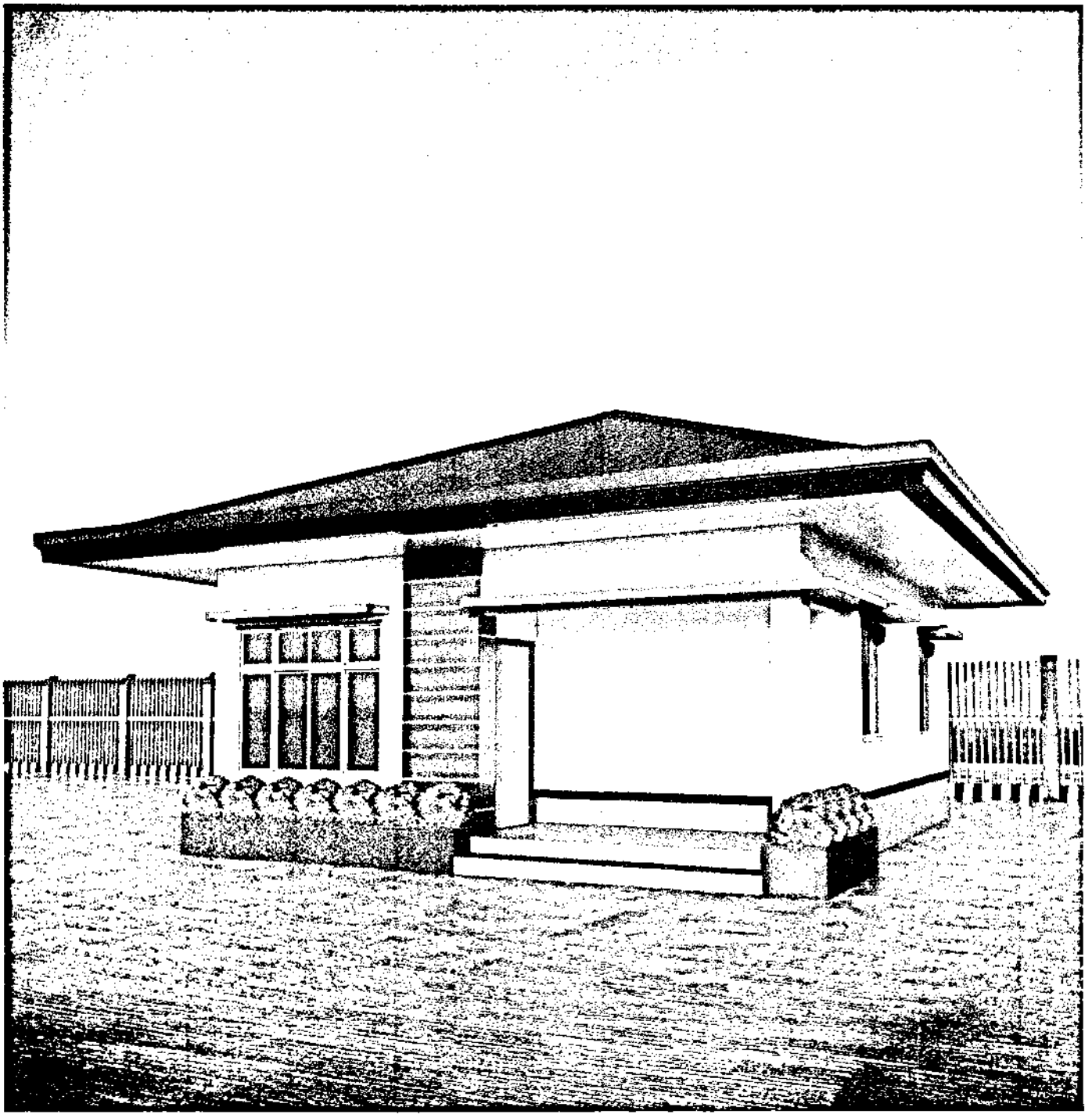
The sizes of the standard signages shall be 2-2/3ft x 4ft (800mm X 1,200mm) for fixed type and 2ft x 2–2/3ft (600mm x 800mm) for mobile type. For barricade standard 2ft x 2–2/3ft (600mm x 800mm) shall be provided.

The materials to be used for signages and barricades are ½ inch (12mm) marine plywood or tarpaulin poster on 2" x 2" (50mm x 50mm) good lumber frame (see drawing below).

The printing or painting shall be the discretion of the Engineer.



STANDARD PLAN FOR SIGNAGES AND BARRICADES



1

FO 2

PERSPECTIVES

SCALE NTS

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

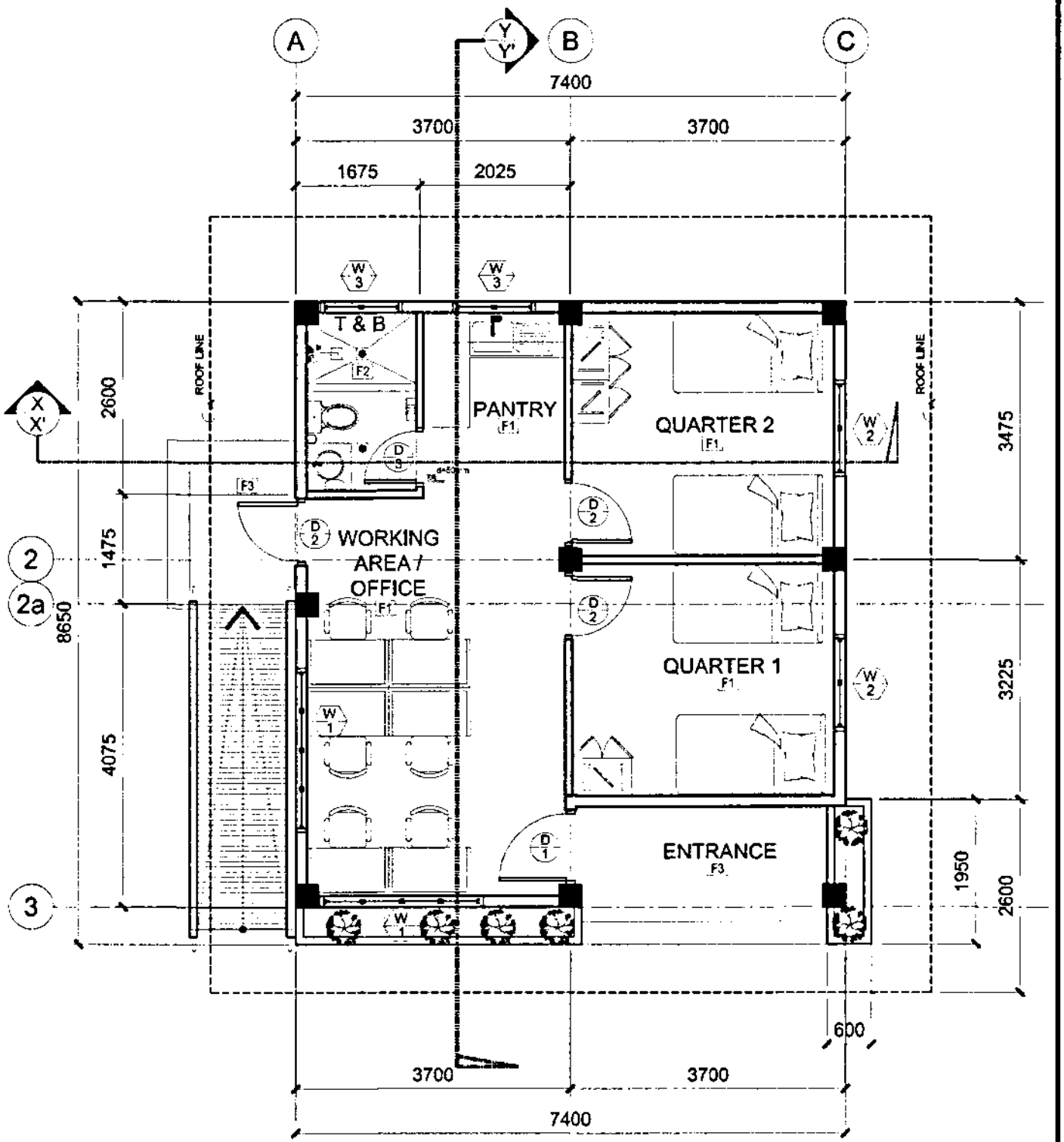
SHEET CONTENTS:

- PERSPECTIVES

SCALE: AS SHOWN

SHEET NO. A-01 of 14

DATE: APRIL 2020



FLOOR PLAN

1 / FO 2

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

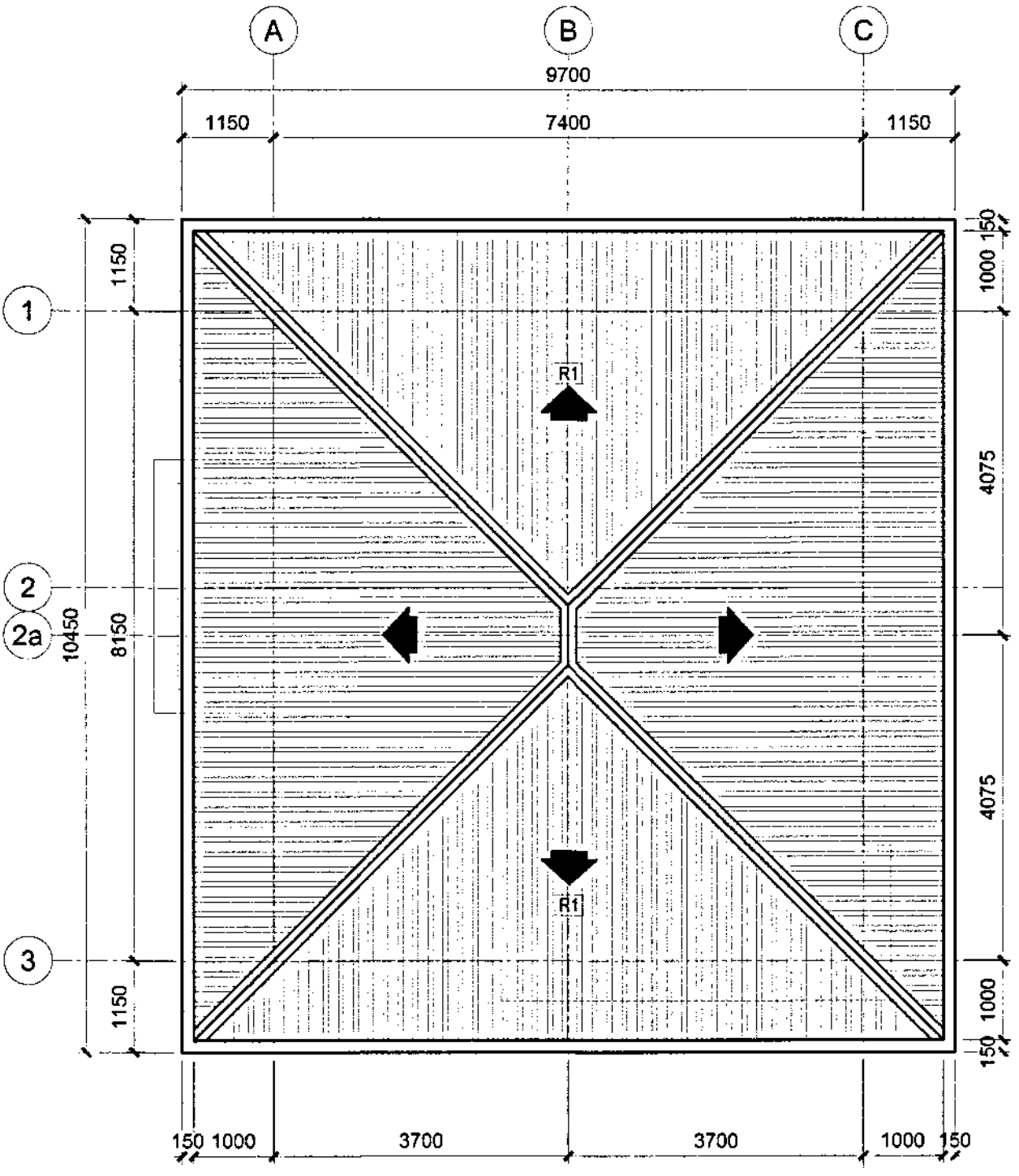
SHEET CONTENTS:

- FLOOR PLAN

SCALE: AS SHOWN

SHEET NO.: A-02 of 14

DATE: APRIL 2025



ROOF PLAN

2
FO 2

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

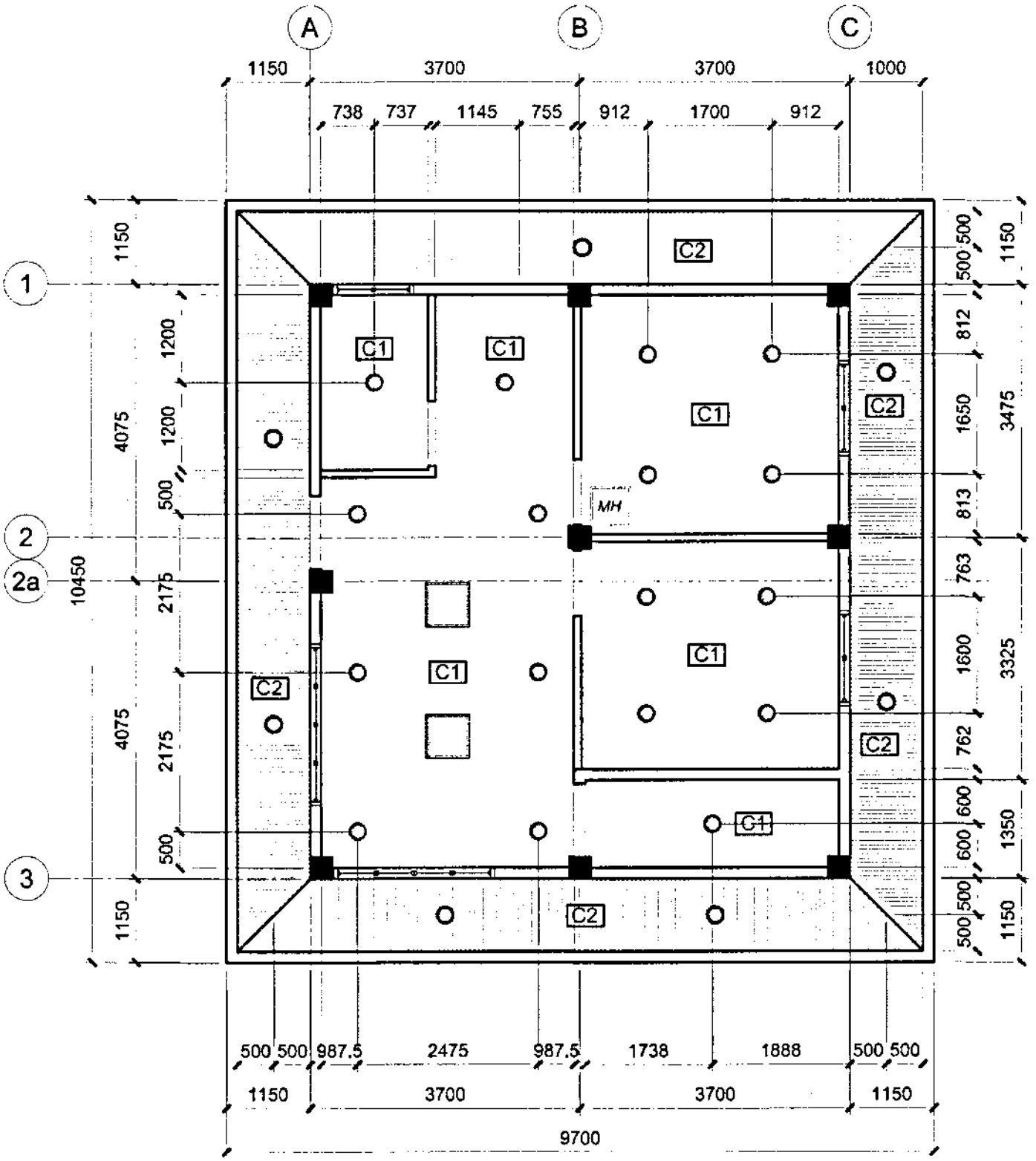
SHEET CONTENTS:

- ROOF PLAN

SCALE: AS SHOWN

SHEET NO. A-03 of 14

DATE: APRIL 2026



REFLECTED CEILING PLAN

3
FO 2

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

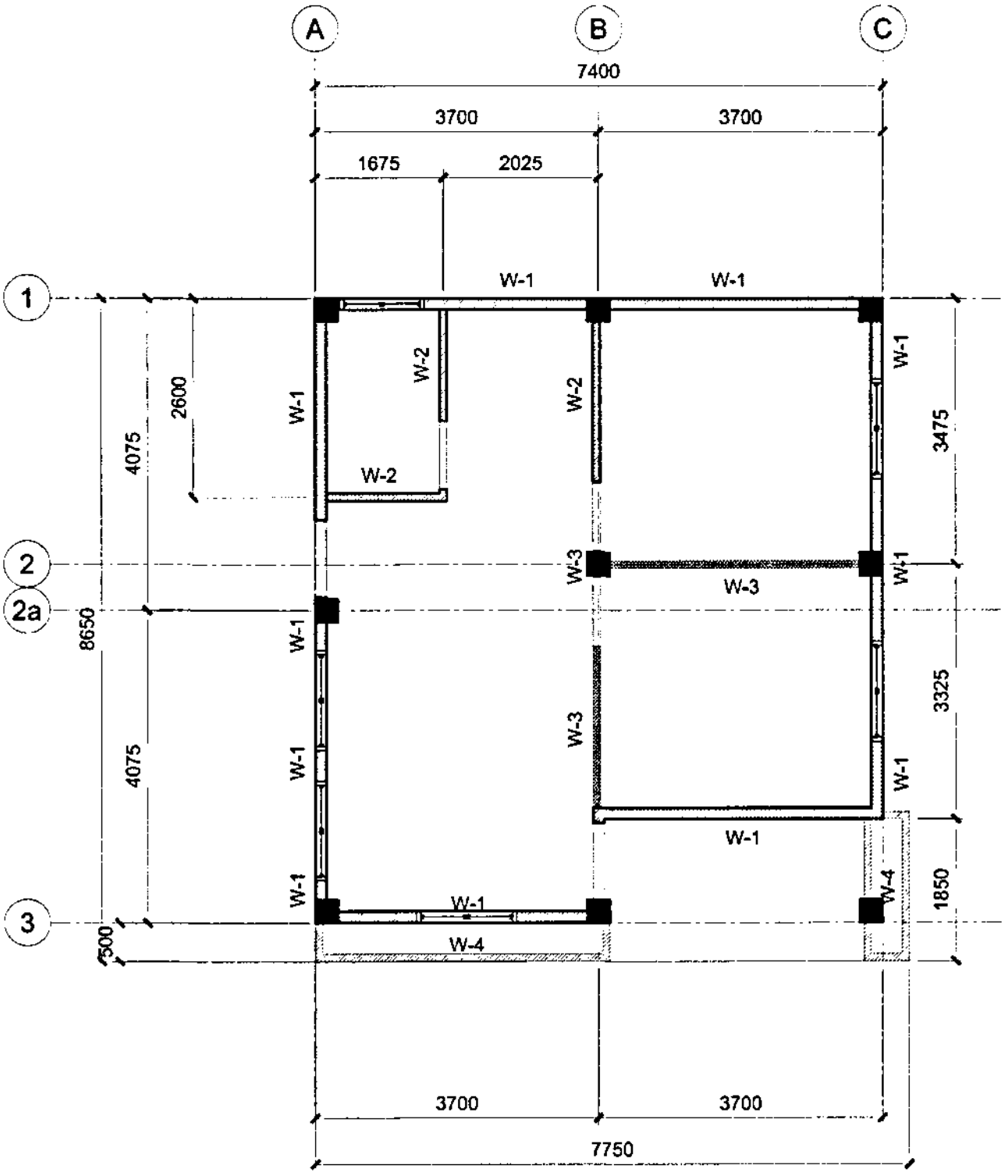
PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS: • REFLECTED CEILING PLAN

SCALE: AS SHOWN

SHEET NO. A-04 of 14

DATE: APRIL 2006



WALL PARTITION LAYOUT

4
FO 2

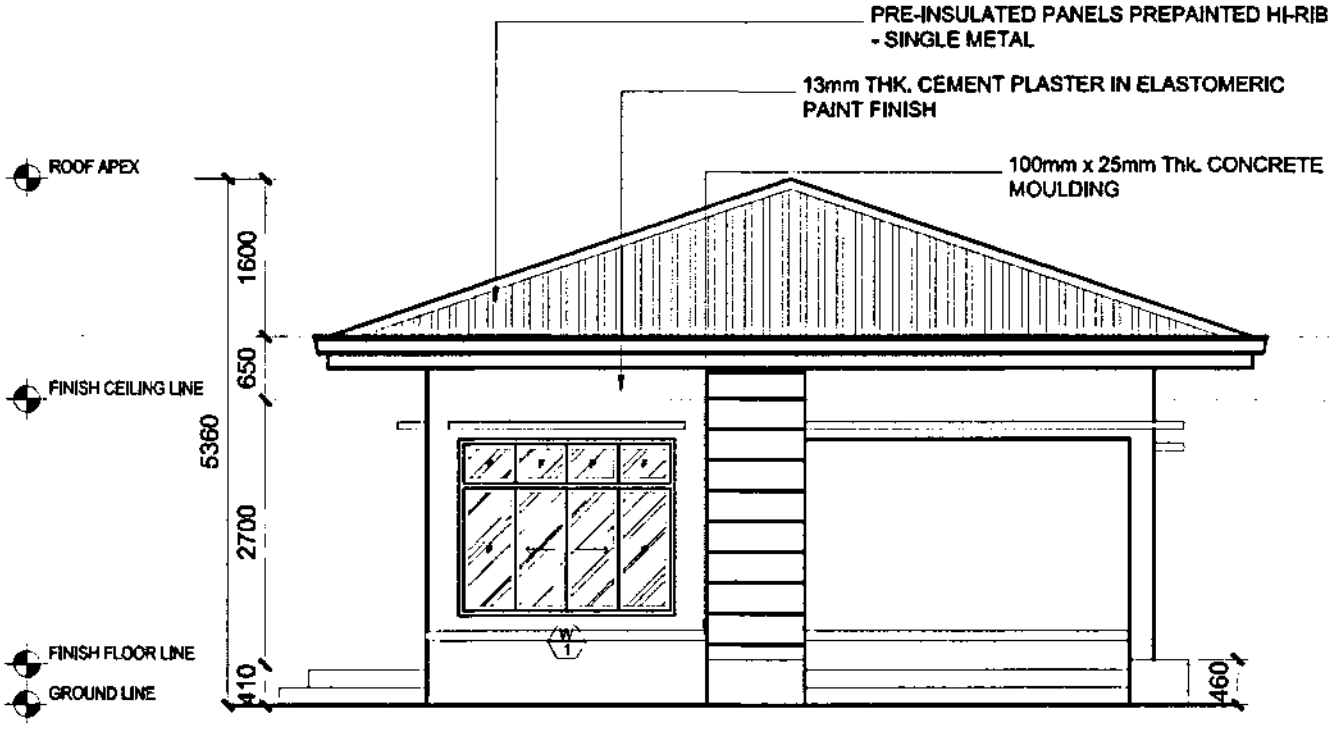
SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS:
- WALL PARTITION LAYOUT

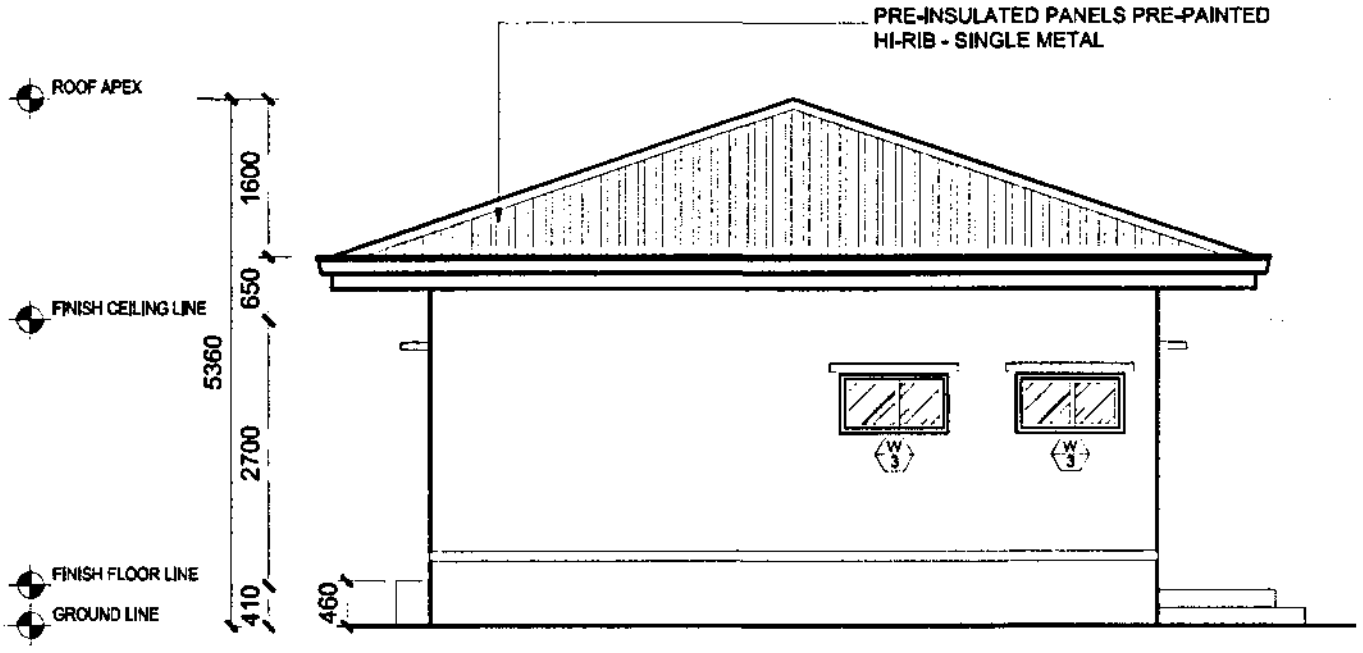
SCALE: AS SHOWN
SHEET NO. A-05 of 14
DATE: APRIL 2006



FRONT ELEVATION

5 / FO 2

SCALE 1:75 M



REAR ELEVATION

6 / FO 2

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

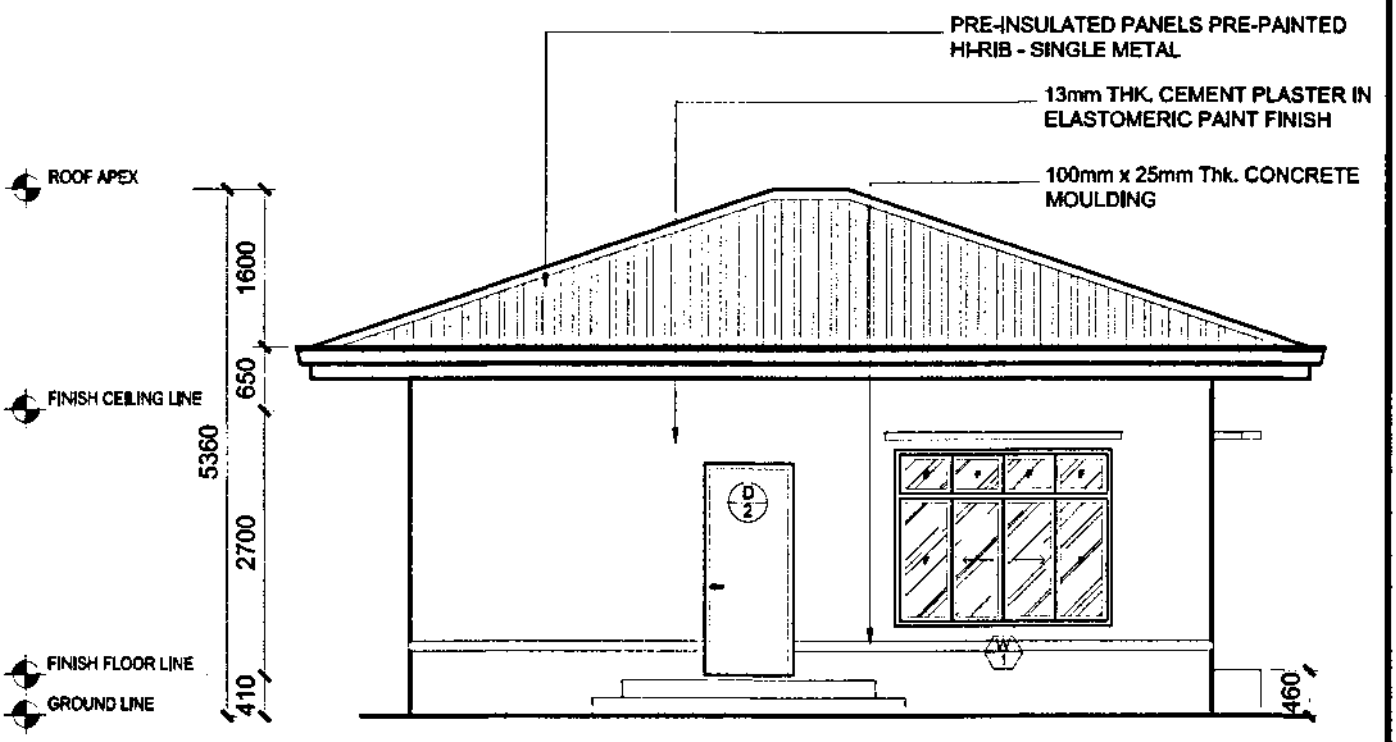
SHEET CONTENTS:

- FRONT ELEVATION
- REAR ELEVATION

SCALE: AS SHOWN

SHEET NO. A-06 of 14

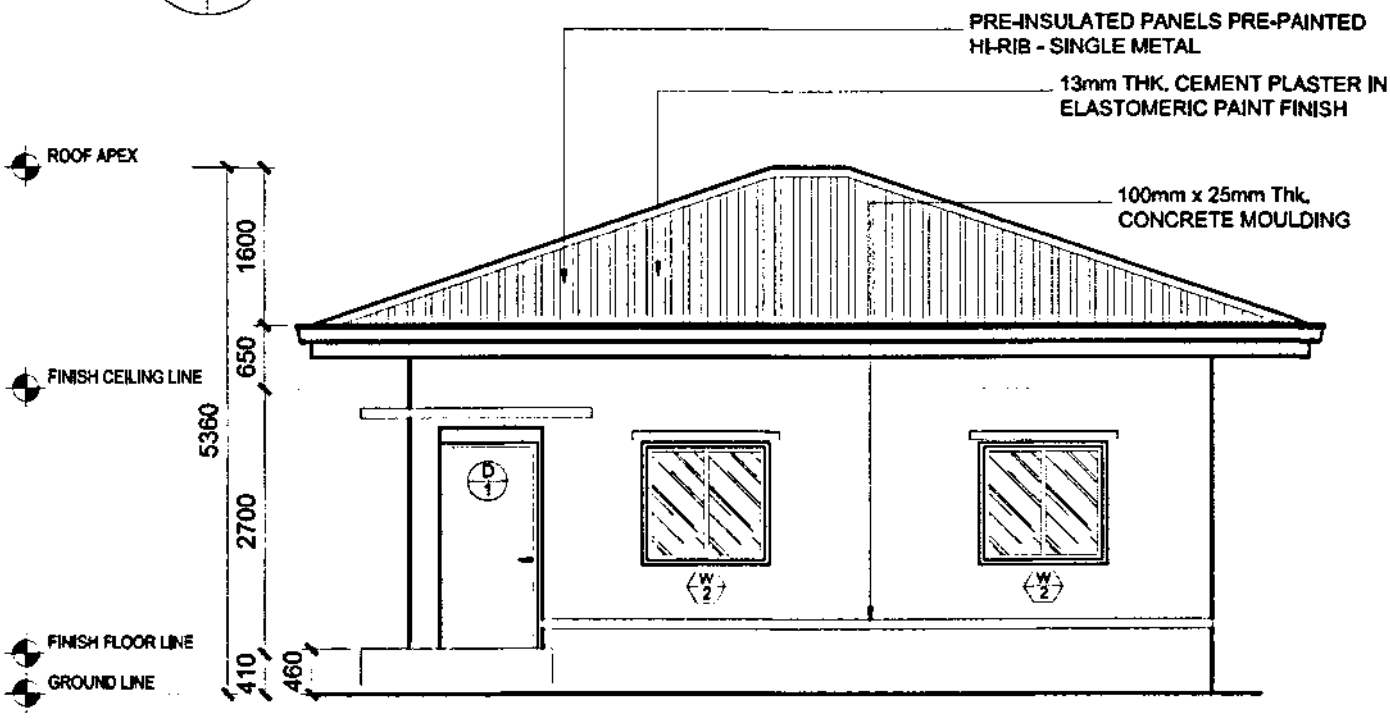
DATE: APRIL 2025



LEFT SIDE ELEVATION

7 / FO 2

SCALE 1:75 M



RIGHT SIDE ELEVATION

8 / FO 2

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

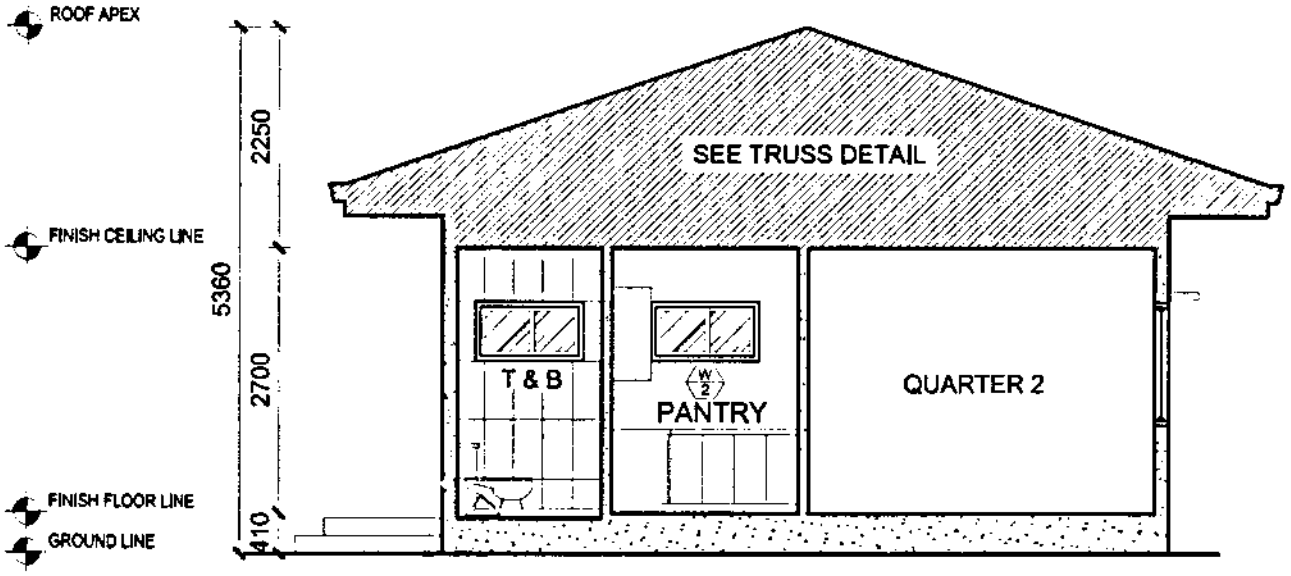
SHEET CONTENTS:

- LEFT SIDE ELEVATION
- RIGHT SIDE ELEVATION

SCALE: AS SHOWN

SHEET NO.: A-07 of 14

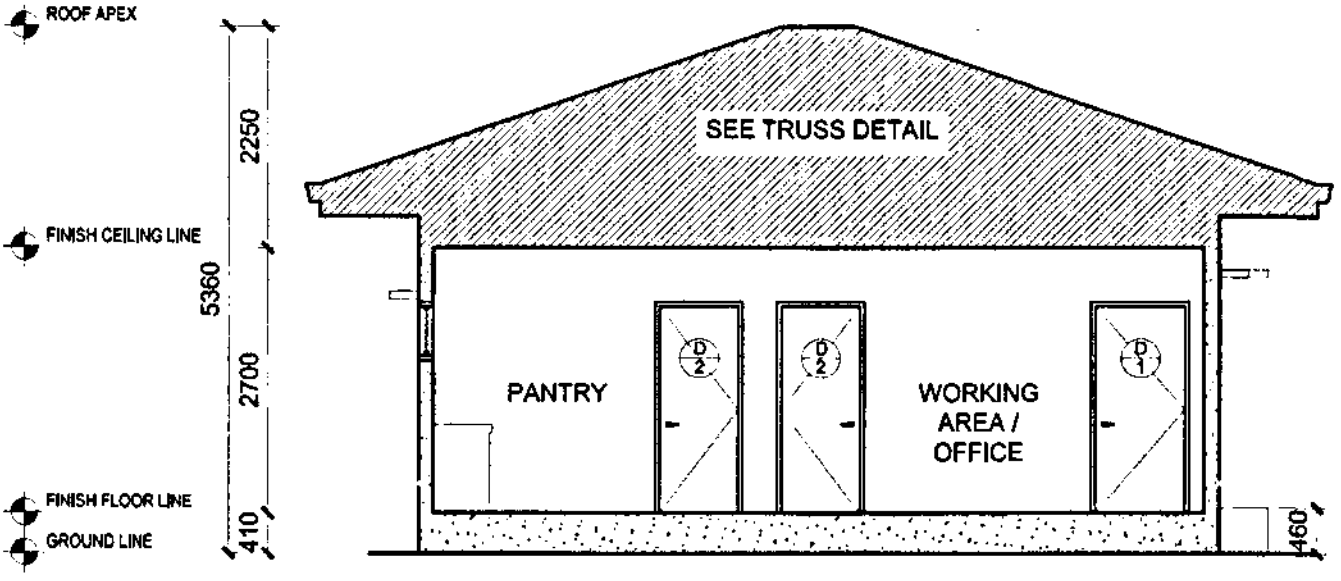
DATE: APRIL 2020



9
FO 2

SECTION THRU X-X'

SCALE 1:75 M



8
A3

SECTION THRU Y-Y'

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

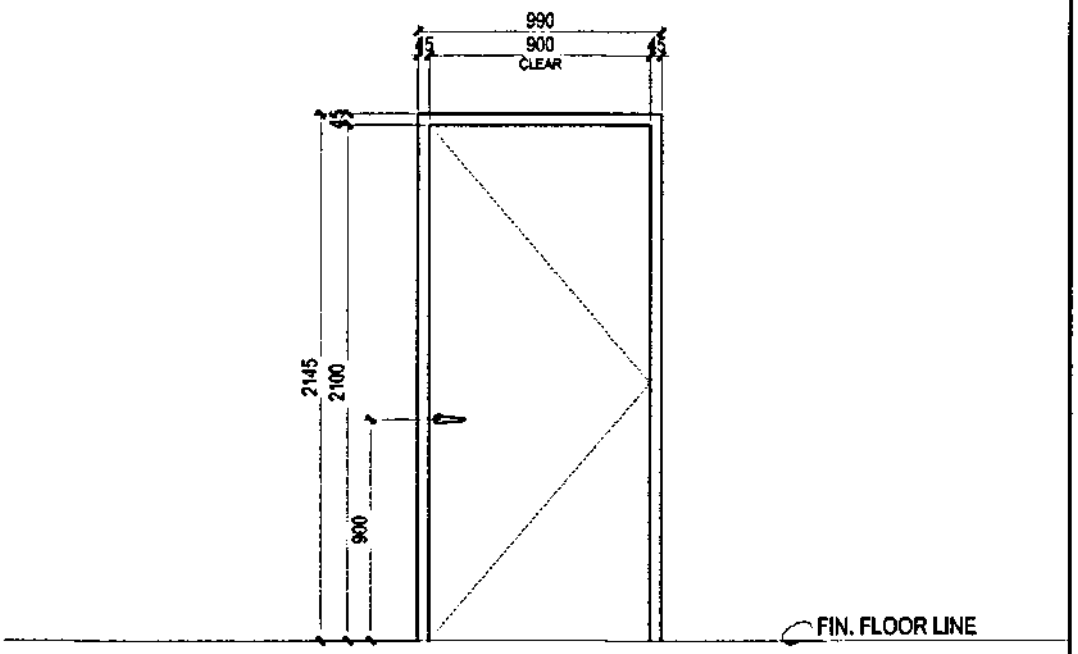
SHEET CONTENTS:

- SECTION THRU X-X'
- SECTION THRU Y-Y'

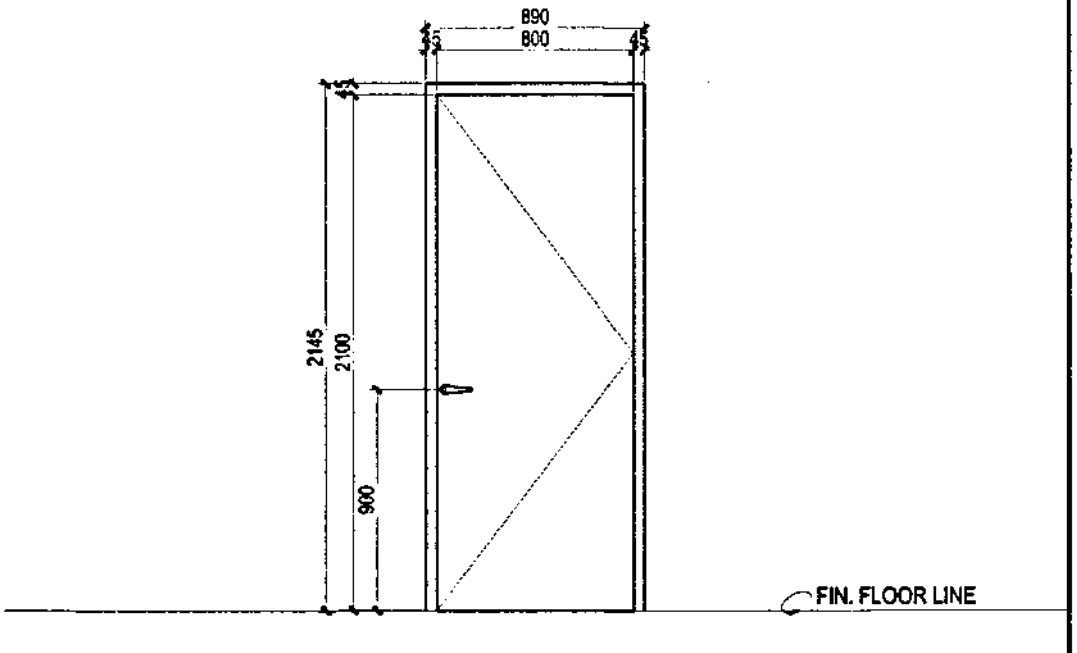
SCALE: AS SHOWN

SHEET NO. A-08 of 14

DATE: APRIL 2025



D1			
	TYPE	:	MARINE PLYWOOD FINISH FLUSH DOOR IN QUICK DRYING ENAMEL FINISH
	LOCATION	:	MAIN ENTRY
	SETS	:	ONE (1)



D2			
	TYPE	:	MARINE PLYWOOD FINISH FLUSH DOOR IN QUICK DRYING ENAMEL FINISH
	LOCATION	:	BEDROOMS, SERVICE DOOR
	SETS	:	THREE (3)

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

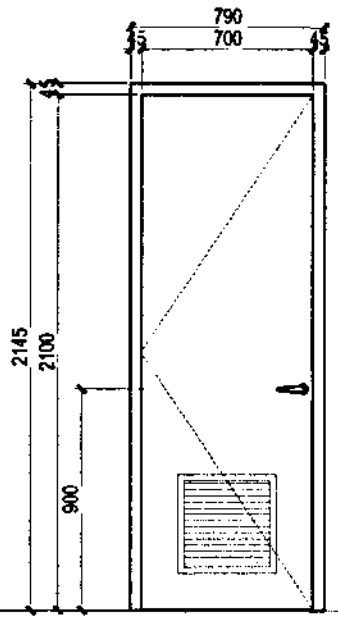
SHEET CONTENTS:

- SCHEDULE OF DOORS

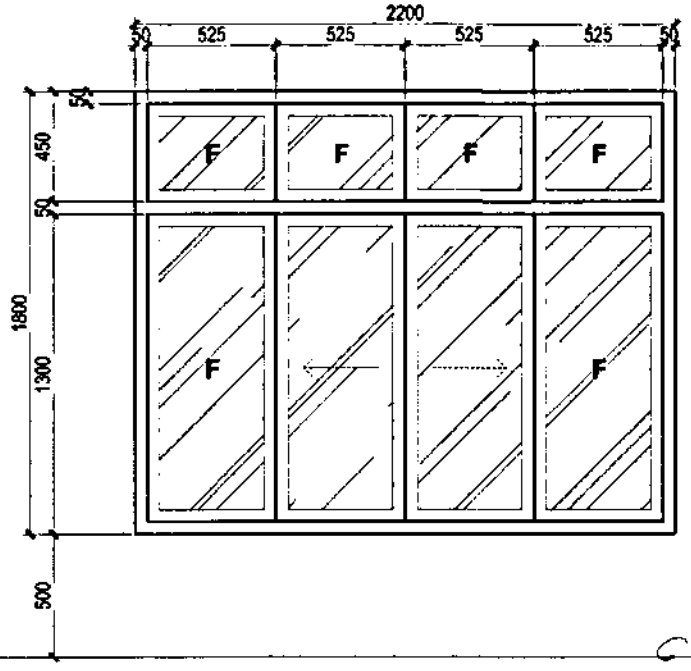
SCALE: 1:50 M

SHEET NO. A-09 of 14

DATE: APRIL 2020



D3	TYPE	:	PVC FLUSH DOOR WITH LOUVER IN THE BOTTOM
	LOCATION	:	TOILET
	SETS	:	ONE (1)



W1	TYPE	:	1.5 mm THK. ALUMINUM FRAMED POWDER COATED SLIDING AND FIXED TYPE WINDOW WITH 12mm THK. REFLECTIVE TEMPERED GLASS
	LOCATION	:	WORKING AREA
	SETS	:	TWO (2)

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

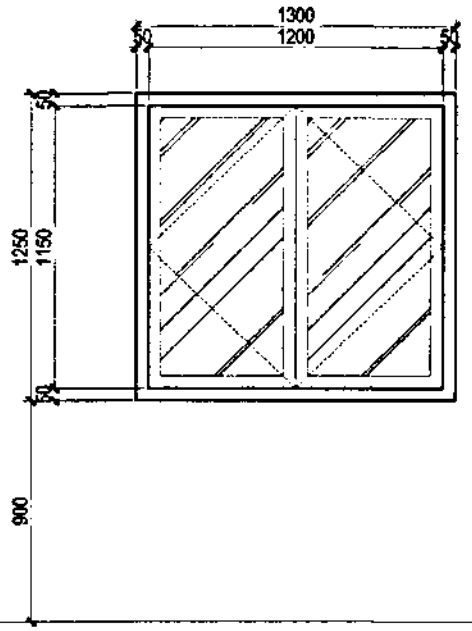
SHEET CONTENTS:

- SCHEDULE OF DOORS AND WINDOWS

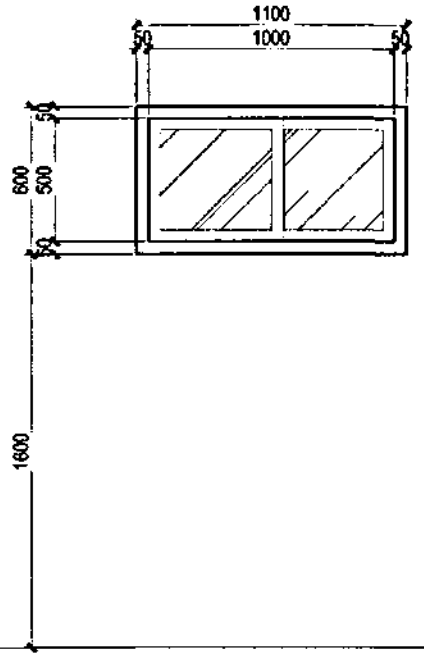
SCALE:

SHEET NO. A-10 of 14

DATE:



W1	TYPE	:	1.5 mm THK. ALUMINUM FRAMED POWDER COATED SLIDING TYPE WINDOW WITH 12mm THK. REFLECTIVE TEMPERED GLASS
	LOCATION	:	QUARTERS
	SETS	:	TWO (2)



W2	TYPE	:	1.5 mm THK. ALUMINUM FRAMED POWDER COATED SLIDING TYPE WINDOW WITH 10mm THK. REFLECTIVE TEMPERED GLASS
	LOCATION	:	TOILET, PANTRY
	SETS	:	TWO (2)

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

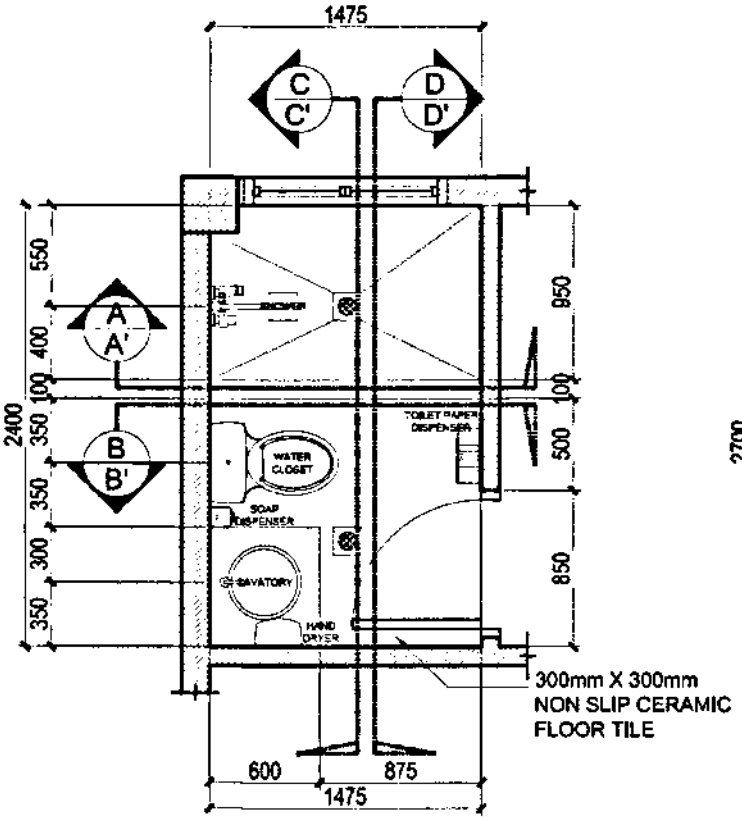
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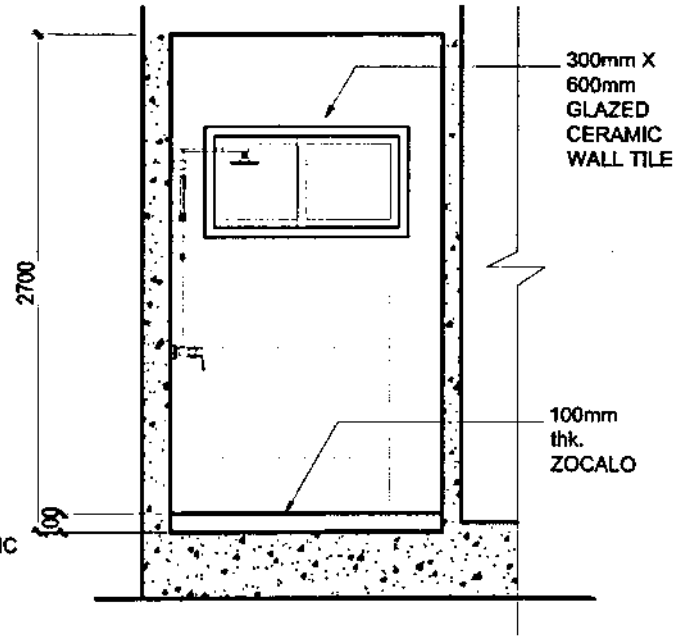
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SHEET NO. A-11 of 14

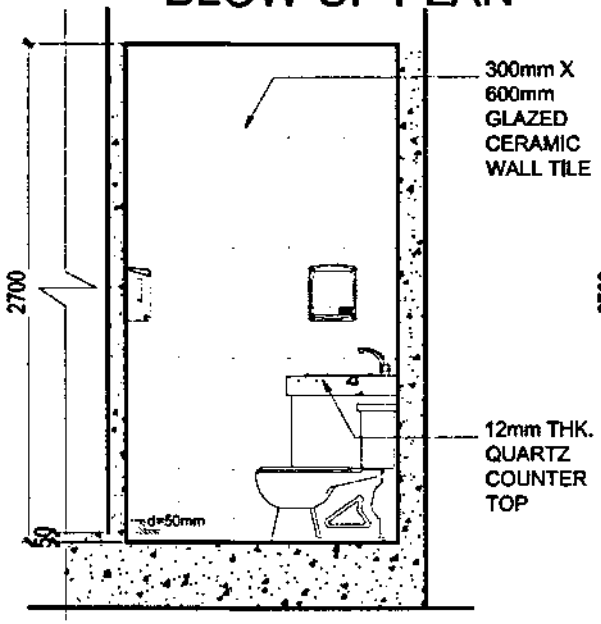
DATE: APRIL 2020

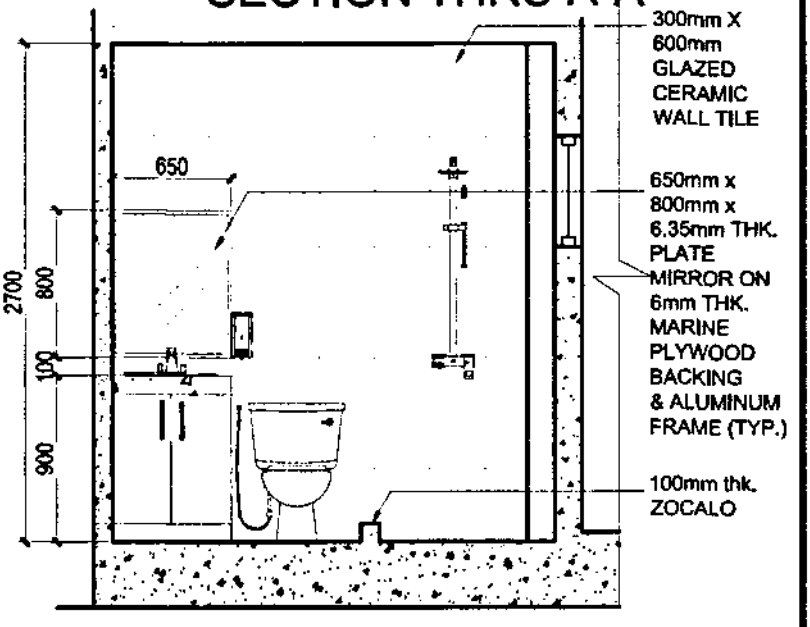


BLOW-UP PLAN



SECTION THRU A-A'





SECTION THRU B-B'

SECTION THRU C-C'

TOILET DETAILS

2
FO 3

SCALE 1:40 M

PHILIPPINE PORTS AUTHORITY

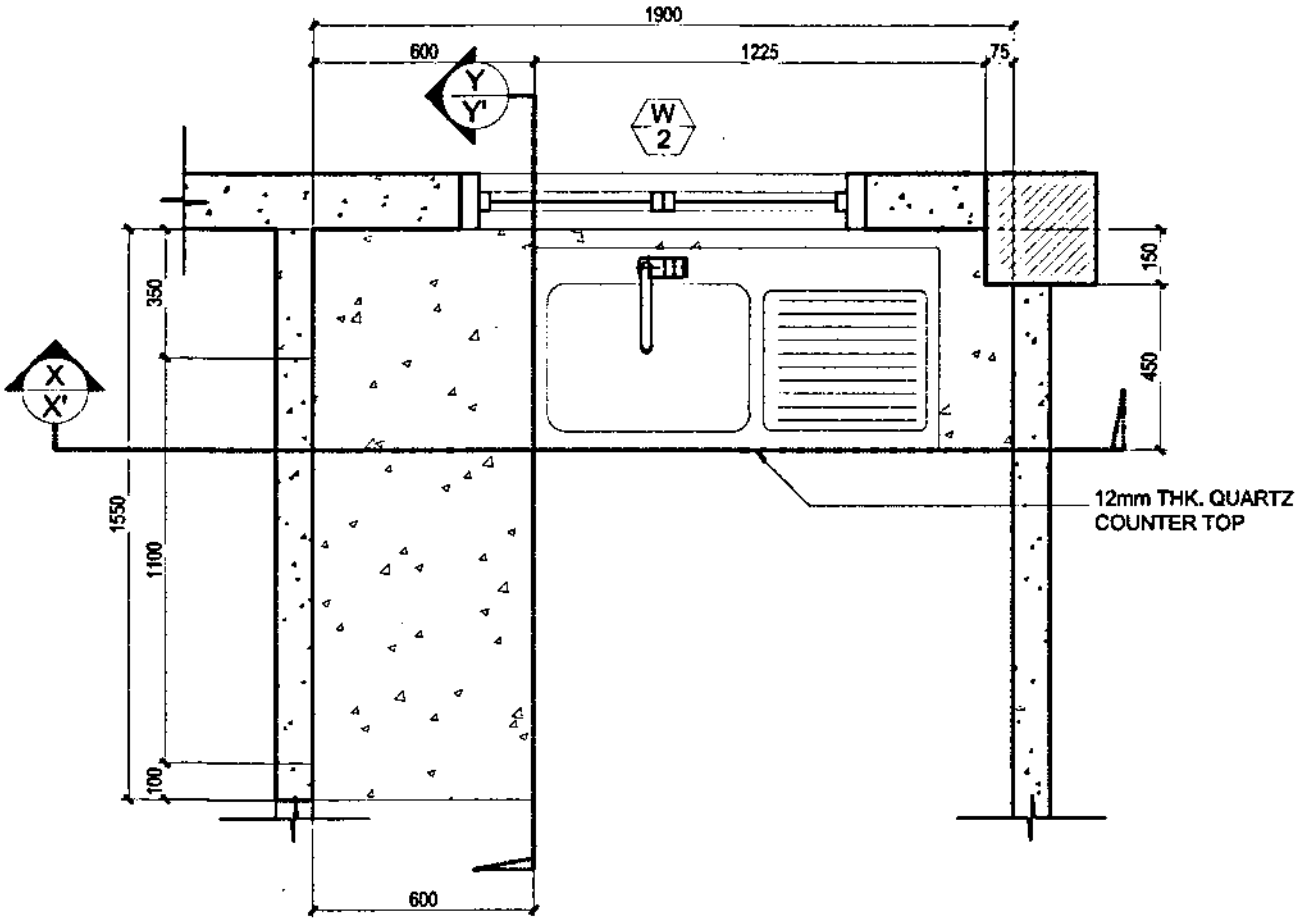
PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS:
- TOILET DETAILS

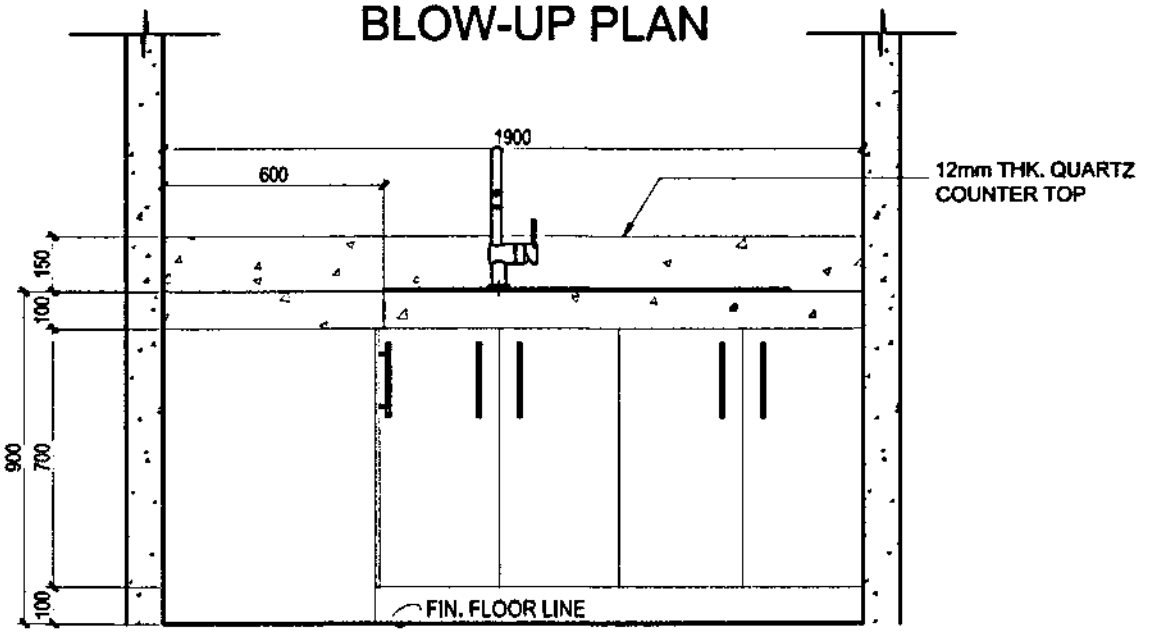
SCALE:

SHEET NO.
A-12 of 14

DATE



BLOW-UP PLAN



FRONT ELEVATION

KITCHEN CABINET DETAILS

3
FO 3

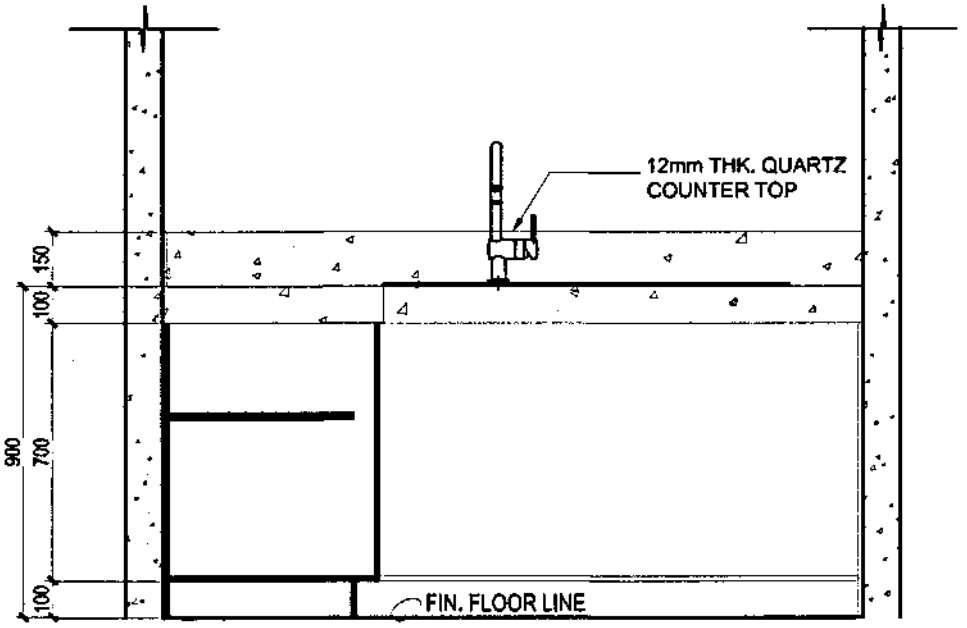
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PHILIPPINE PORTS AUTHORITY

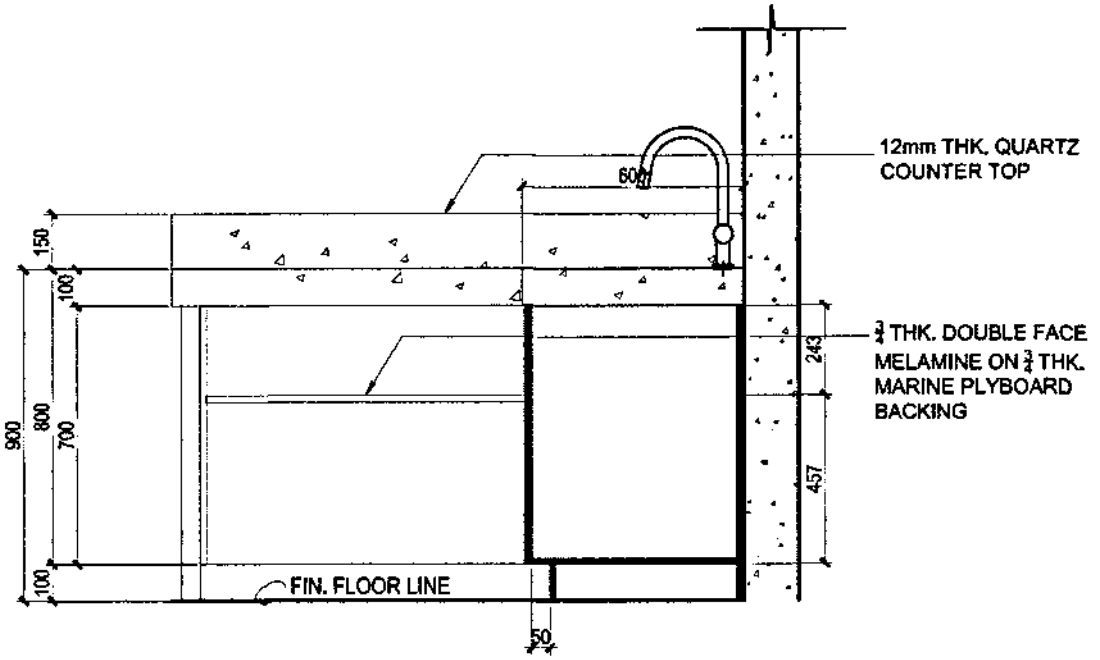
PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS:
- KITCHEN CABINET DETAILS

SCALE: AS SHOWN
SHEET NO. A-13 of 14
DATE: APRIL 2018



SECTION THRU X-X'



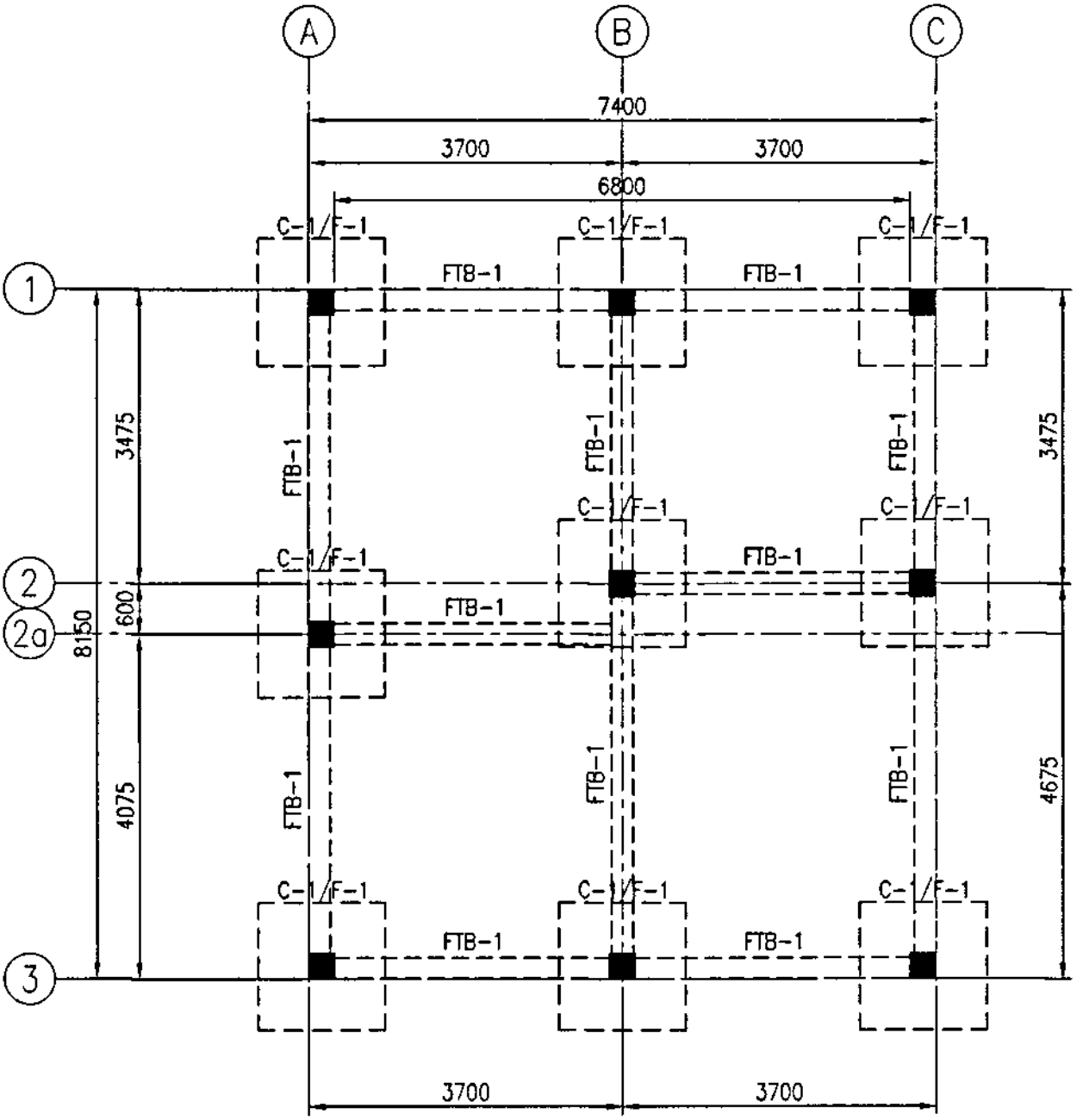
SECTION THRU Y-Y'

KITCHEN CABINET DETAILS

3
FO 3

SCALE 1:20 M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)	SHEET CONTENTS: • KITCHEN CABINET DETAILS	SCALE: AS SHOWN SHEET NO. A-14 of 14 DATE APRIL 2018

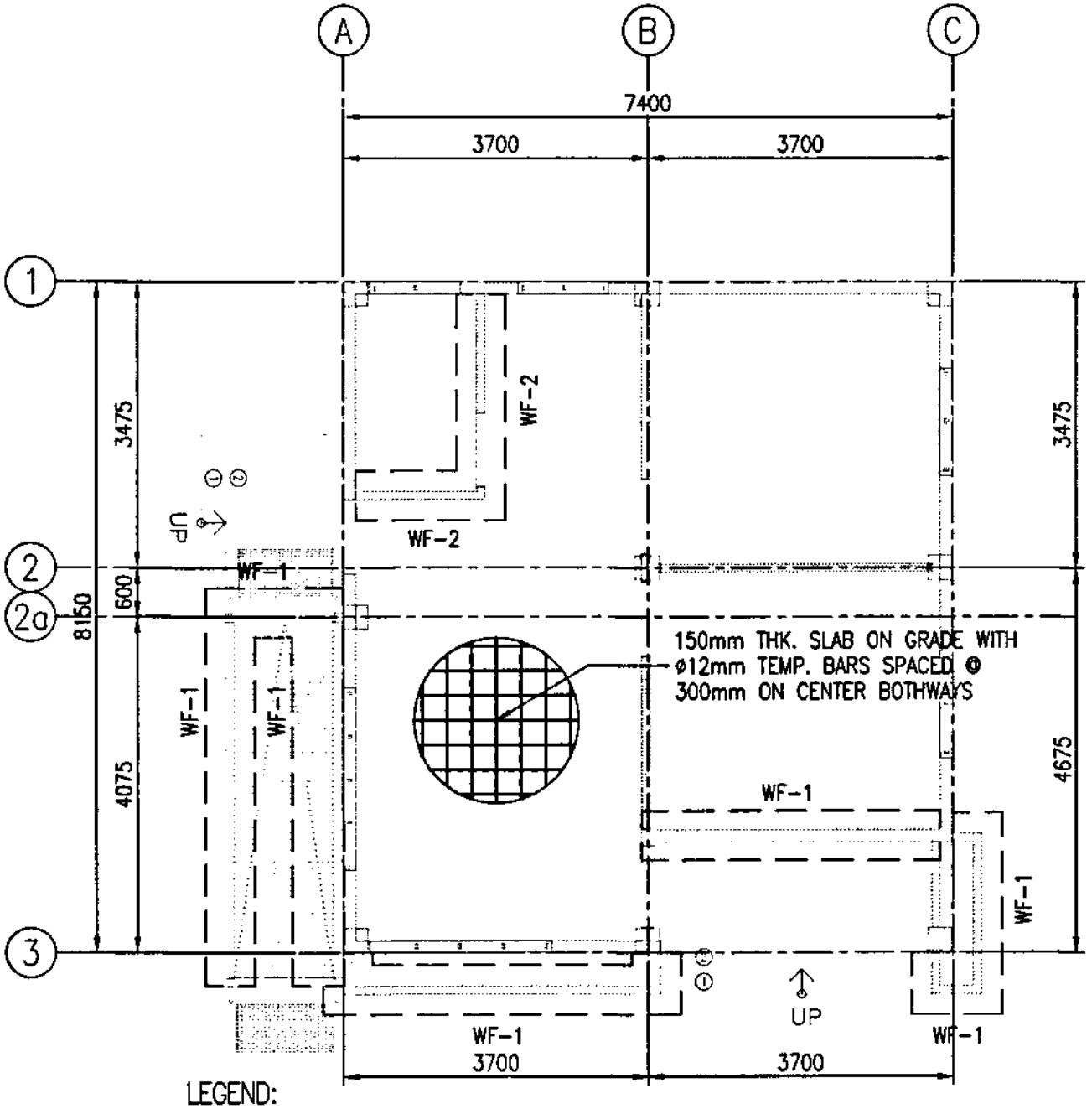


FIELD OFFICE

1 / F0 07 FOUNDATION PLAN

SCALE 1:75M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)	SHEET CONTENTS: • FOUNDATION PLAN	SCALE: AS SHOWN SHEET NO. S-01 of 11 DATE: APRIL 2008



FIELD OFFICE

WALL FOOTING LAYOUT PLAN

2 / F0 07

SCALE 1:75M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

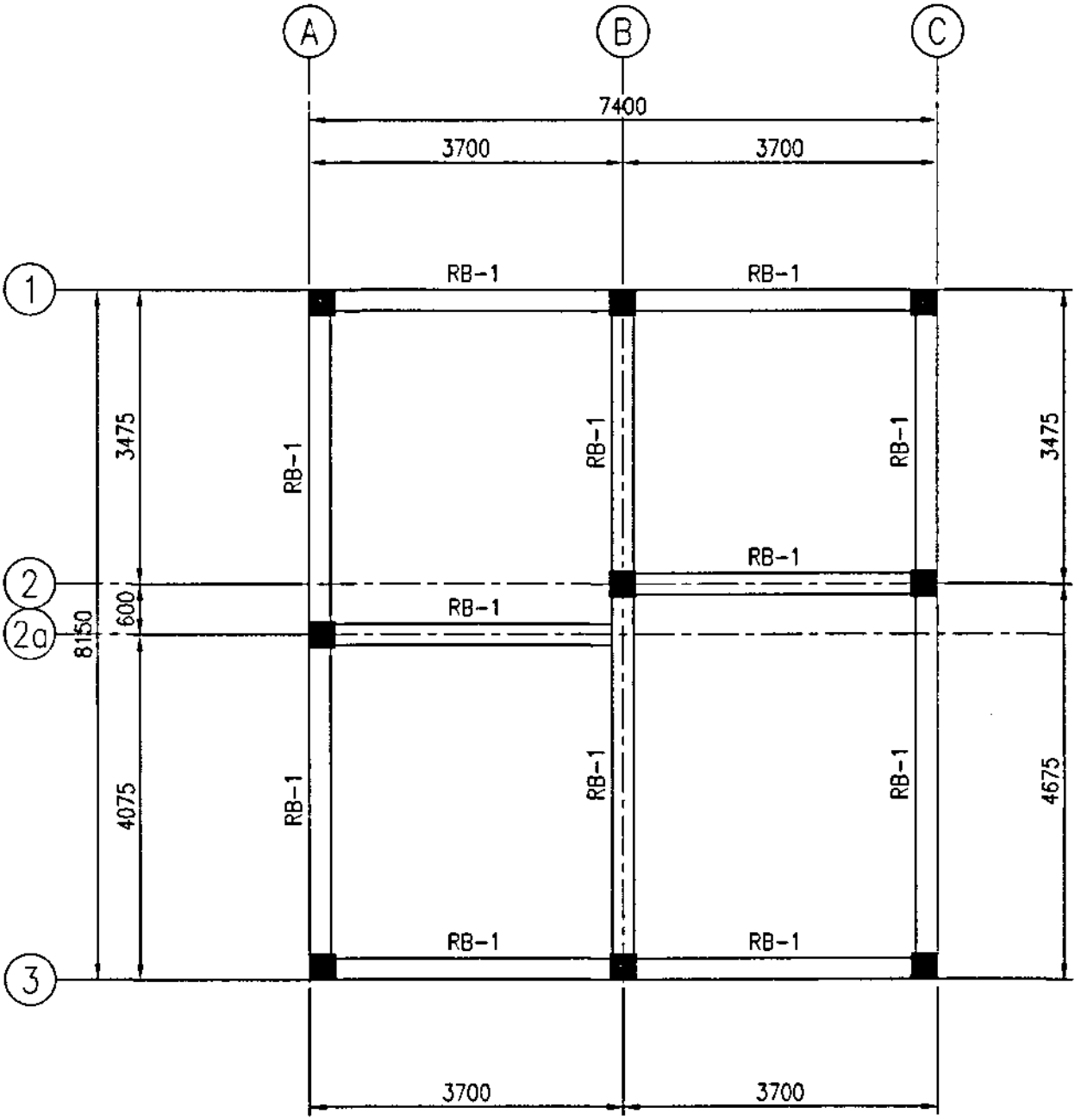
SHEET CONTENTS:

- WALL FOOTING LAYOUT PLAN

SCALE: AS SHOWN

SHEET NO. S-02 of 11

DATE: APRIL 2015



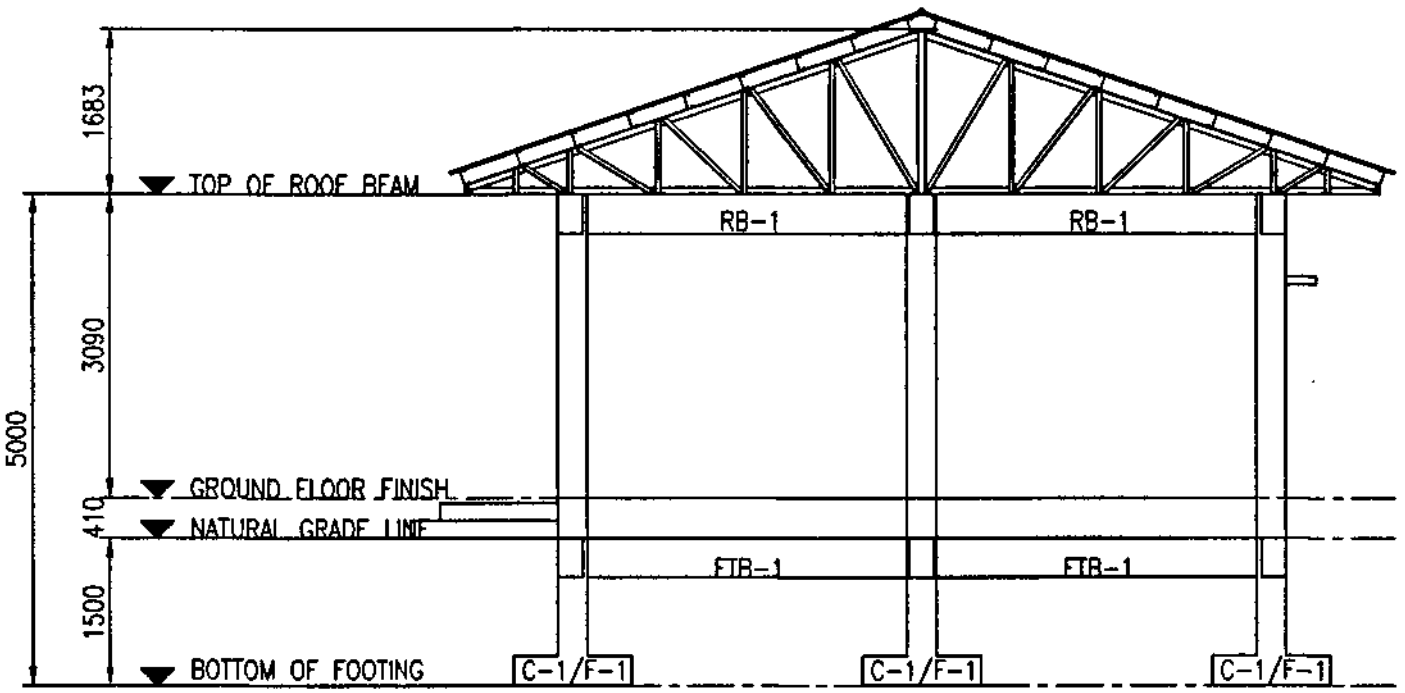
FIELD OFFICE

ROOF BEAM FRAMING PLAN

3 / FO 07

SCALE 1:75M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)	SHEET CONTENTS: • ROOF BEAM FRAMING PLAN	SCALE: AS SHOWN SHEET NO. S-03 of 11 DATE: APRIL 2025



FIELD OFFICE

4 / FO 07 ELEVATION AT GRID-A

SCALE 1:75M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

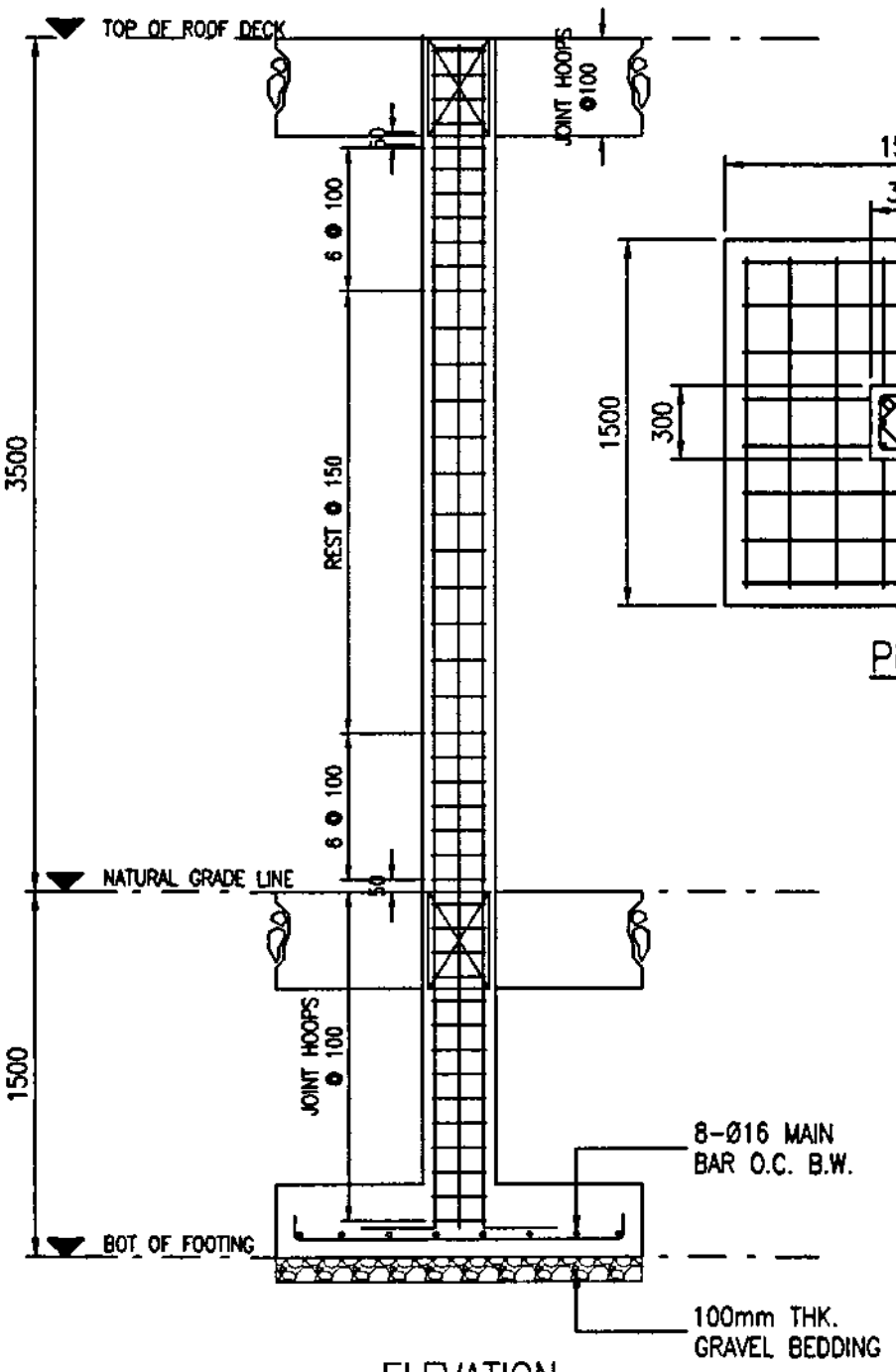
SHEET CONTENTS:

- ELEVATION AT GRID-A

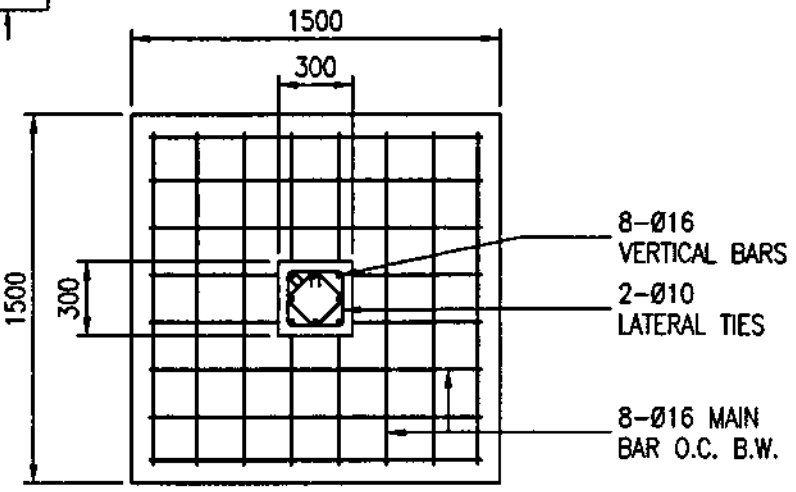
SCALE: AS SHOWN

SHEET NO. S-04 of 11

DATE: APRIL 2018



ELEVATION



PLAN

NOTE:

1. IF SPLICING 2 BARS OF DIFFERENT DIAMETERS, USE THE LENGTH OF THE LARGER BAR.

2. SPLICING OF REINFORCEMENT AT ANY SECTION SHOULD NOT BE MORE THAN 50% OF THE TOTAL AMOUNT OF REINFORCEMENT AT THE SECTION.

3. NO LAPS IN TOP & BOTTOM TO OCCUR WITHIN A DISTANCE OF 2h FROM THE FACE OF SUPPORT NOR AT MIDSPAN.

4. LAPS IN FRAMING BARS TO BE STAGGERED RELATIVE TO LAPS IN MAIN TOP & BOTTOM BARS.

5. LAP LENGTH:

32mmØ- 1600mm
25mmØ-1000mm
28mmØ- 1250mm
20mmØ-700mm

FIELD OFFICE

DETAIL OF COLUMN/FOOTING (C-1/F-1)

5 / FO 07

SCALE 1:30M

PHILIPPINE PORTS AUTHORITY

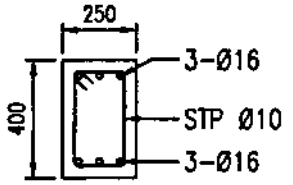
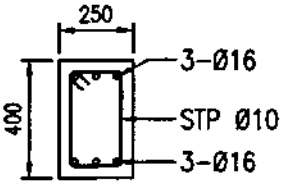
PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS: • DETAIL OF COLUMN/FOOTING (C-1/F-1)

SCALE: AS SHOWN

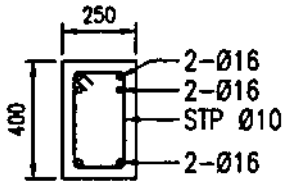
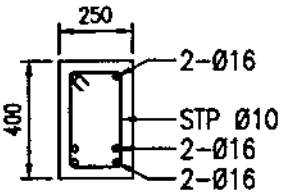
SHEET NO. S-05 of 11

DATE: APRIL 2020

FOOTING TIE BEAM		
BEAM ID	SECTION	
	AT SUPPORTS	AT MIDSPAN
FTB-1 250 x 400		
	STIRRUPS: USE Ø10, 1 @ 50, 8 @ 100, REST @ 150	

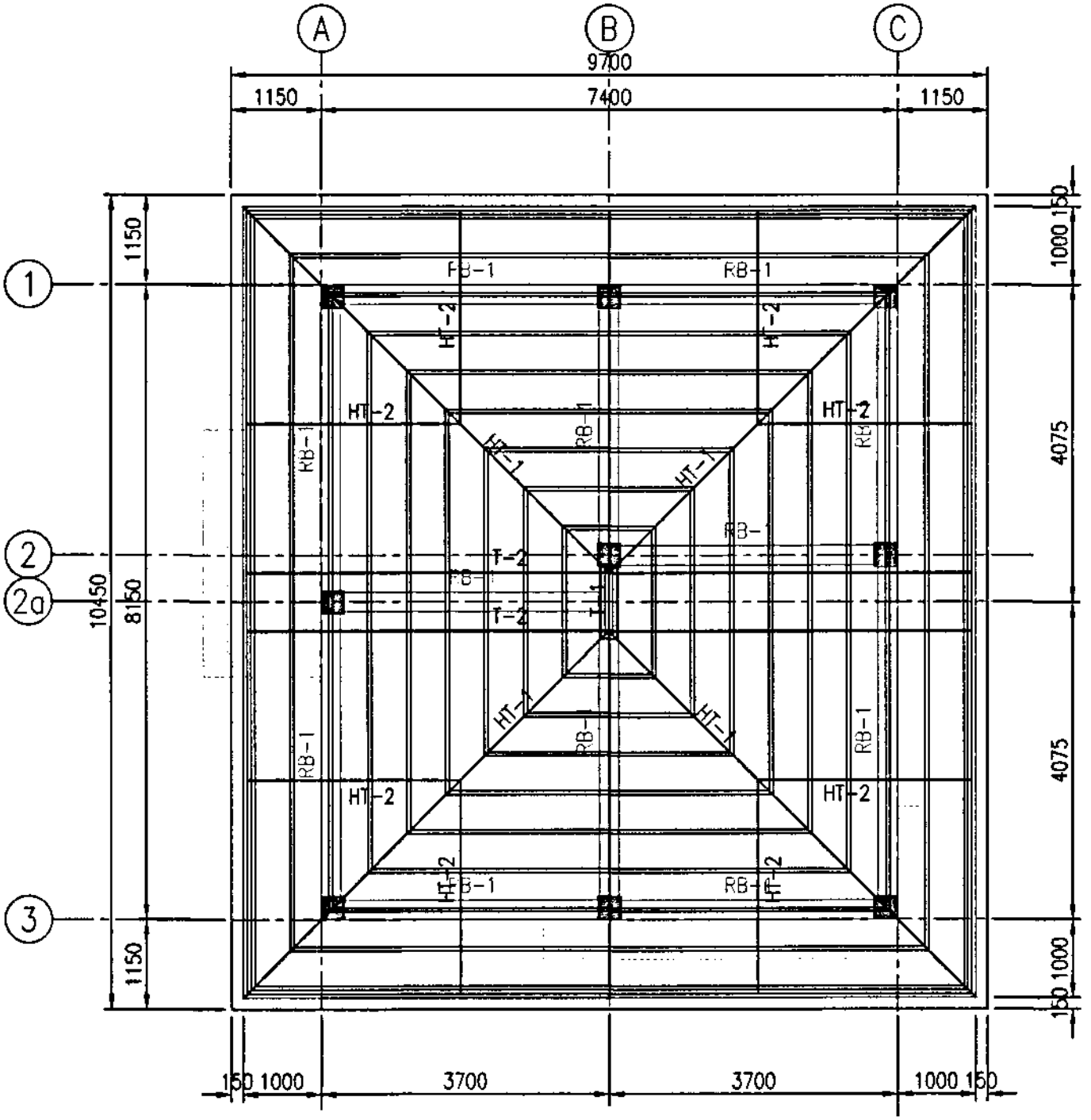
NOTE :

1. PROVIDE 100 THK. GRAVEL BEDDING FOR FOOTING TIE BEAMS

ROOF DECK LEVEL		
BEAM ID	SECTION	
	AT SUPPORTS	AT MIDSPAN
RB-1 250 x 400		
	STIRRUPS: USE Ø10, 1 @ 50, 8 @ 100, REST @ 150	

7 / F0 07 BEAM SCHEDULE

SCALE 1:25M



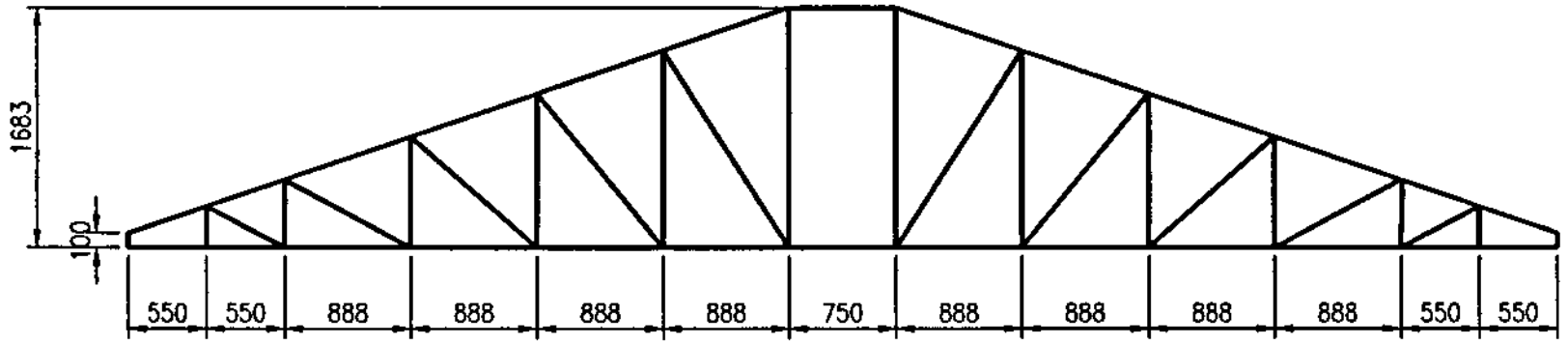
FIELD OFFICE

ROOF FRAMING PLAN

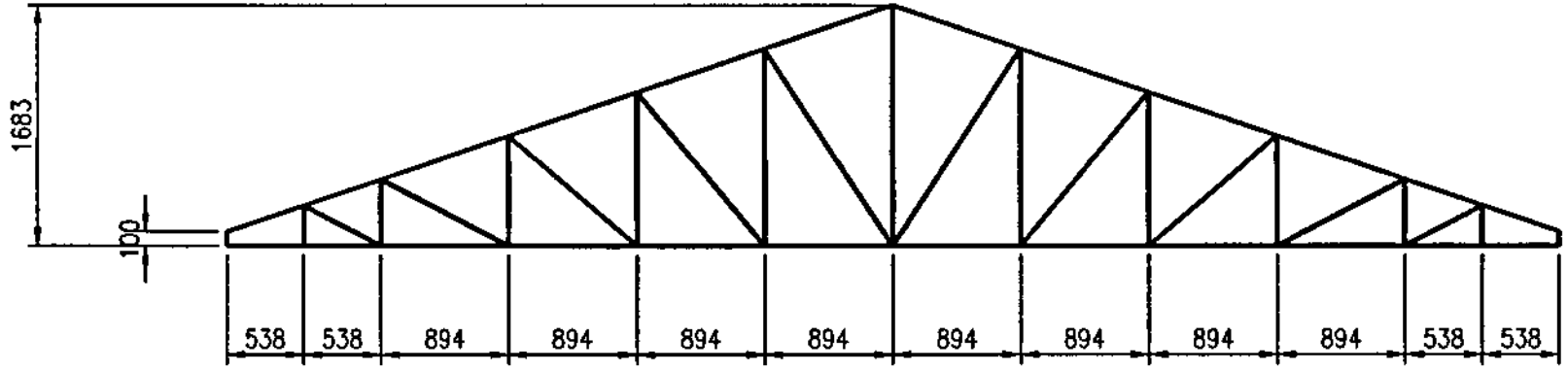
1 / FO 08

SCALE 1:75M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)	SHEET CONTENTS: • ROOF FRAMING PLAN	SCALE: AS SHOWN SHEET NO. S-07 of 11 DATE: APRIL 2015



T–1



T–2

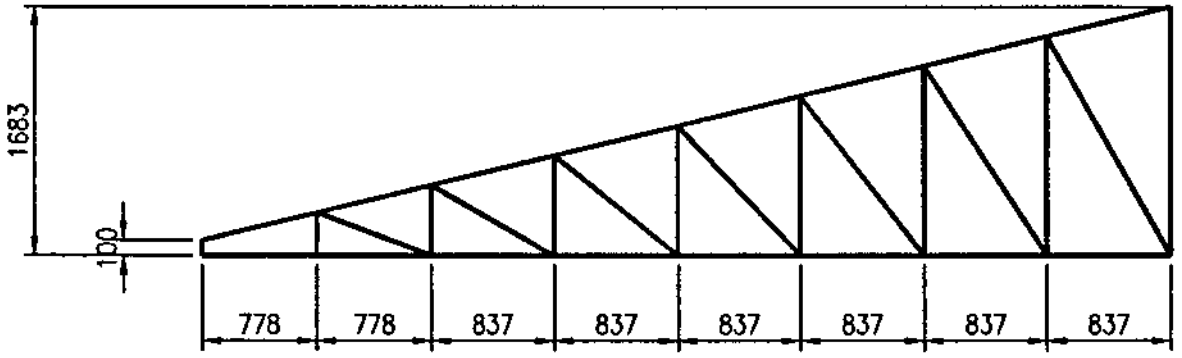
2 FO 08 TRUSS DIAGRAM

SCALE 1:50M

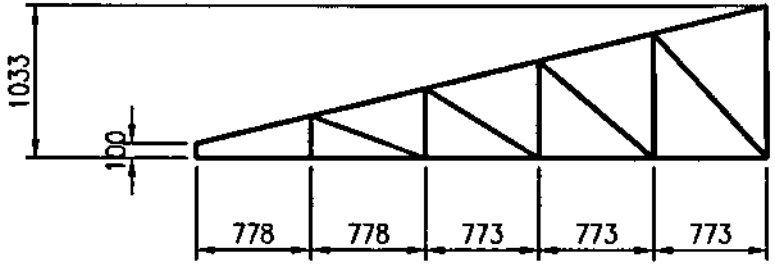
PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)

PHILIPPINE PORTS AUTHORITY

SHEET NO. S-08 of 11



HT-1



HT-2

SCHEDULE OF STEEL TRUSSES		
MARKED	SECTION	SHAPE
TOP CHORD	2-L75X75X6	T
BOTTOM CHORD	2-L75X75X6	T
KING POST	2-L75X75X6	T
WEB MEMBER	2-L50X50X6	T
DIAGONAL MEMBER	2-L50X50X6	T

NOTE:
VERIFY THE ACTUAL MEASUREMENTS BEFORE TRUSS ASSEMBLY
C-PURLINS - USE 4"X2"X1.6mm THK. @ 500mm O.C.

2 FO 08 TRUSS DIAGRAM
SCALE 1:50M

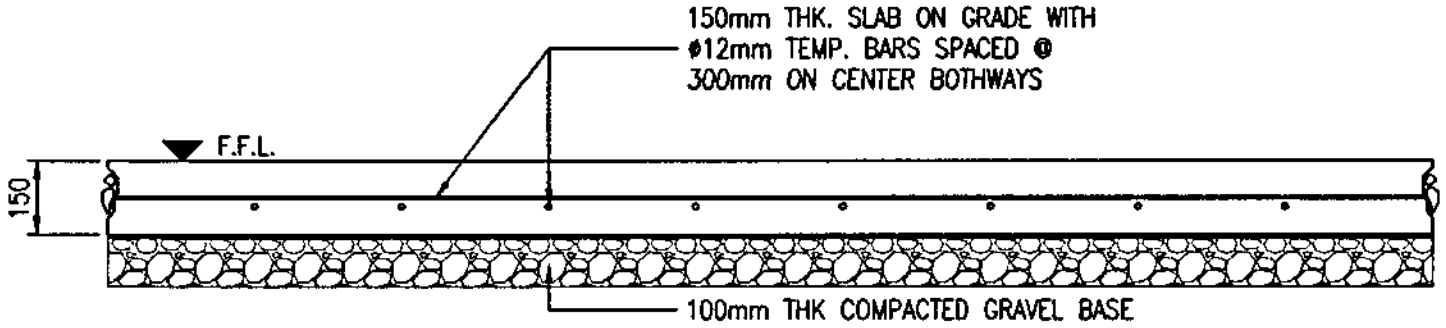
3 FO 08 SCHEDULE OF STEEL TRUSSES
SCALE NTS

SCALE: AS SHOWN
SHEET NO. S-09 of 11
DATE APRIL 2015

SHEET CONTENTS:
- TRUSS DIAGRAM
- SCHEDULE OF STEEL TRUSSES

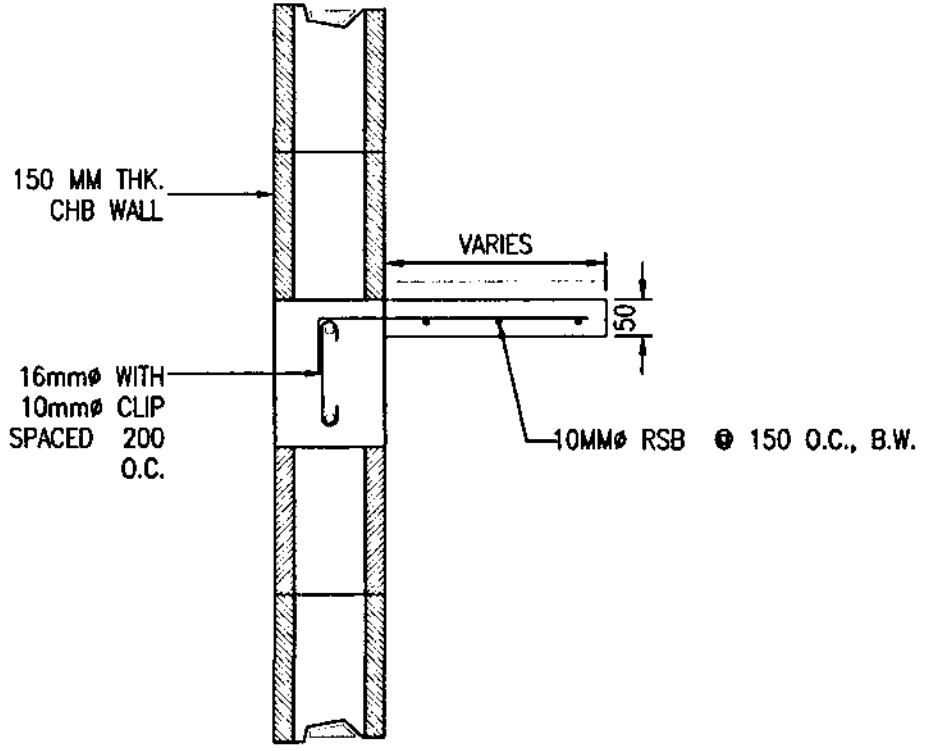
PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)

PHILIPPINE PORTS AUTHORITY



4 / F0 08 SLAB ON GRADE REINFORCEMENT DETAILS

SCALE 1:15M



5 / F0 08 TYPICAL DETAILS OF CANOPY SLAB

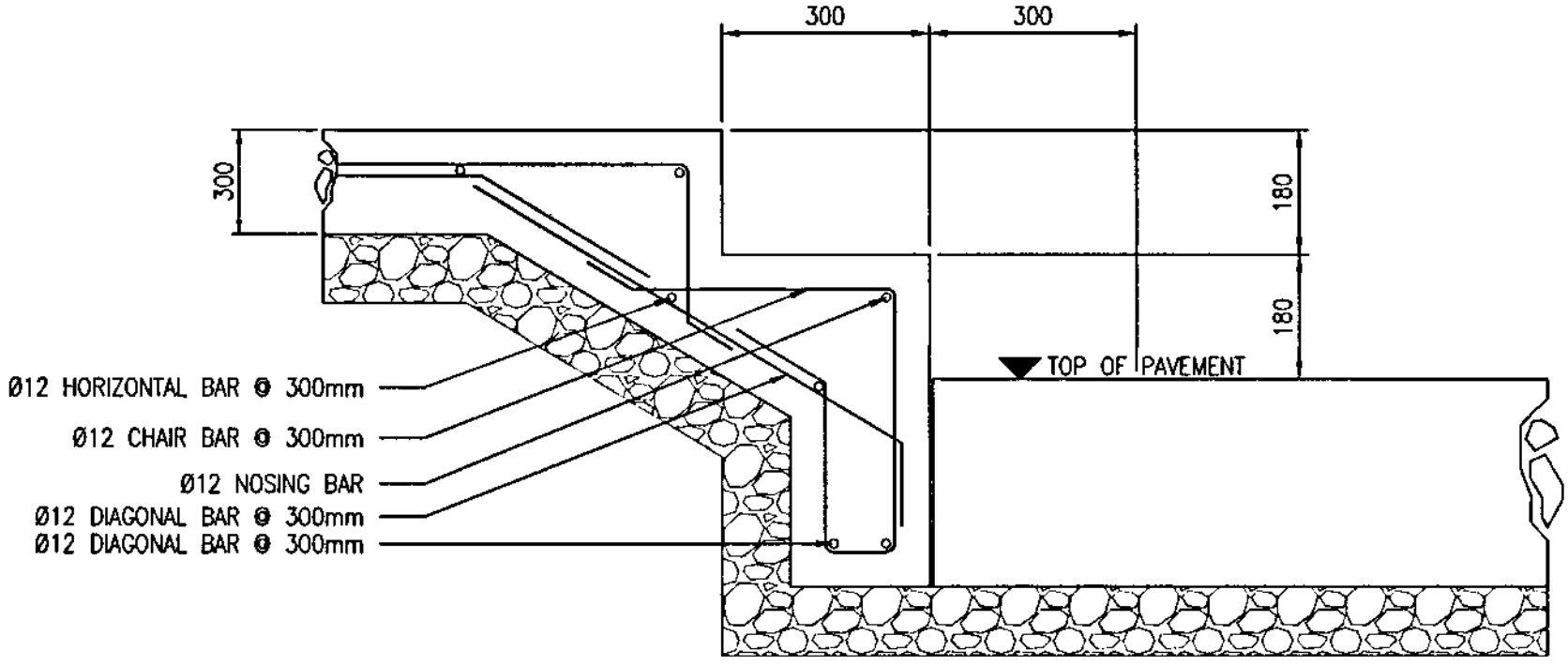
SCALE 1:10M

SHEET CONTENTS:
- SLAB ON GRADE REINFORCEMENT DETAILS
- TYPICAL DETAIL OF CANOPY SLAB

SCALE: AS SHOWN
SHEET NO. S-10 of 11
DATE: APRIL 2008

PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)

PHILIPPINE PORTS AUTHORITY



6 FO 08 DETAIL OF STEP-UP

SCALE 1:10M

SCALE AS SHOWN

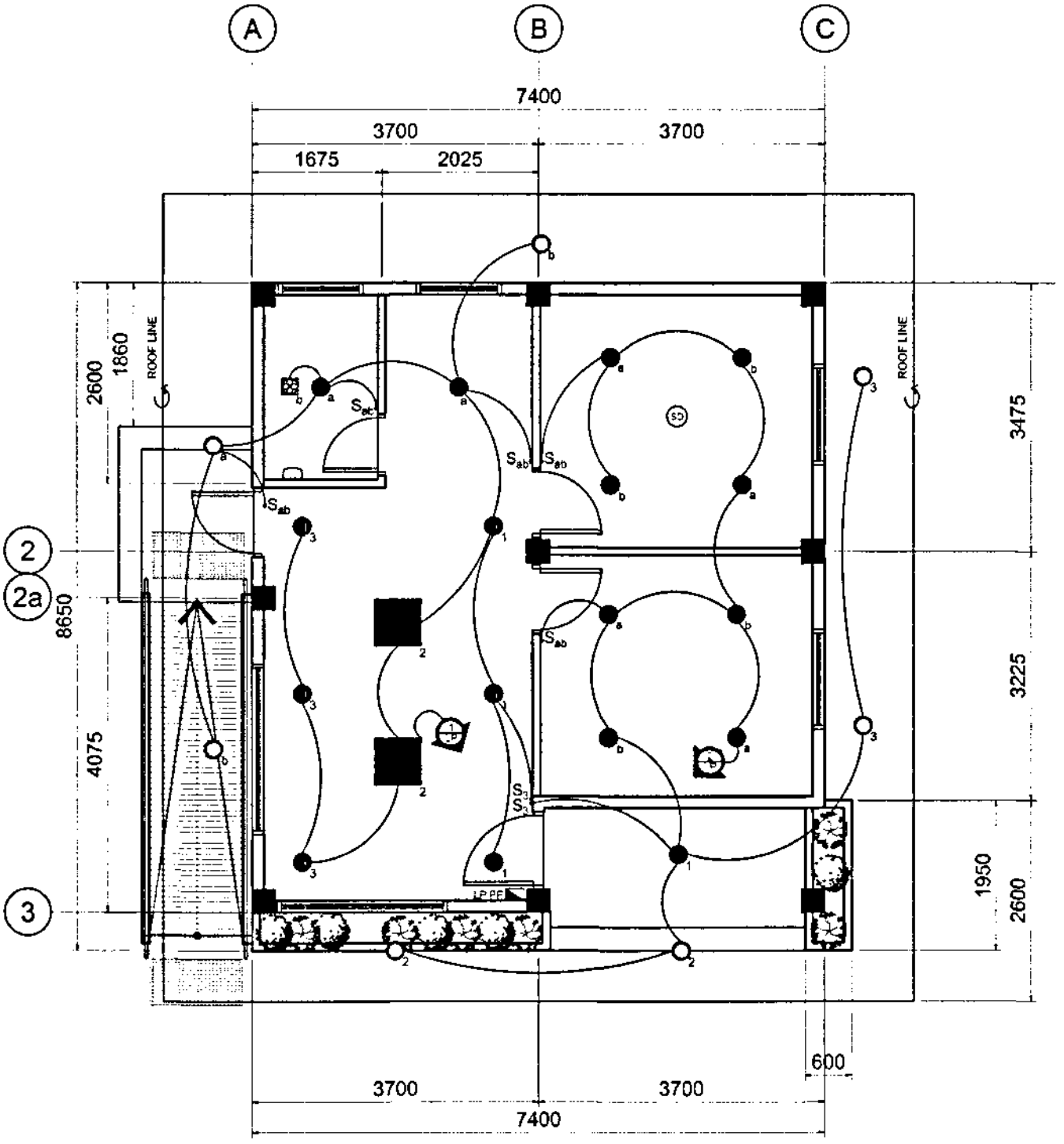
S-SHEET NO. S-11 of 11

DATE APRIL 2020

SHEET CONTENTS • DETAIL OF STEP-UP

PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)

PHILIPPINE PORTS AUTHORITY

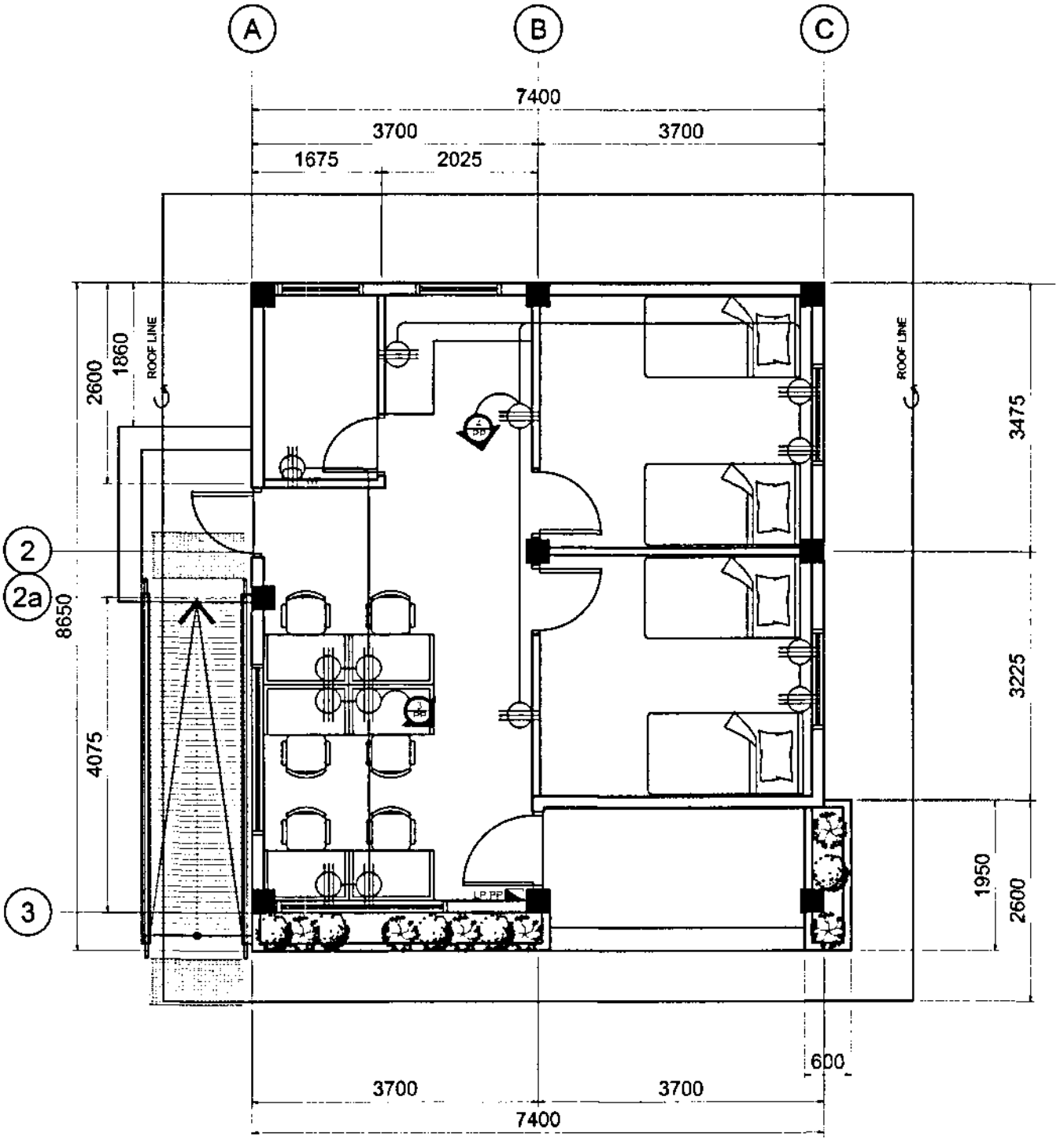


1 / E 01

LIGHTING LAYOUT PLAN

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)	SHEET CONTENTS: • LIGHTING LAYOUT PLAN	SCALE: AS SHOWN SHEET NO.: E-01 of 18 DATE: APRIL 2018



POWER LAYOUT PLAN

2 / E 01

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE

NEW PORT DEVELOPMENT (FIELD OFFICE)

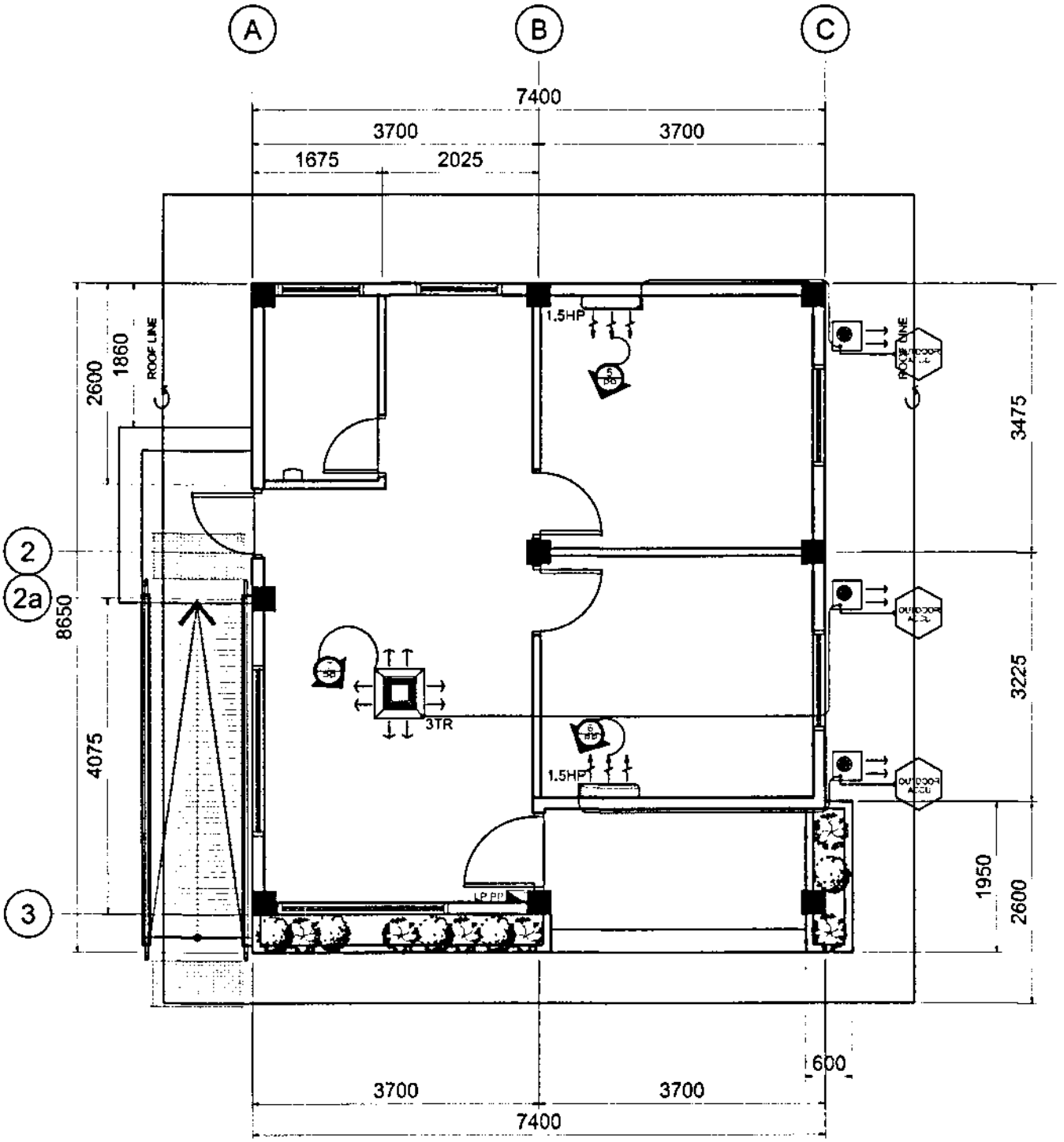
SHEET CONTENTS

- POWER LAYOUT PLAN

SCALE: AS SHOWN

SHEET NO. E-02 of 18

DATE: APRIL 2016



3
ACU 01

AIR CONDITION LAYOUT PLAN

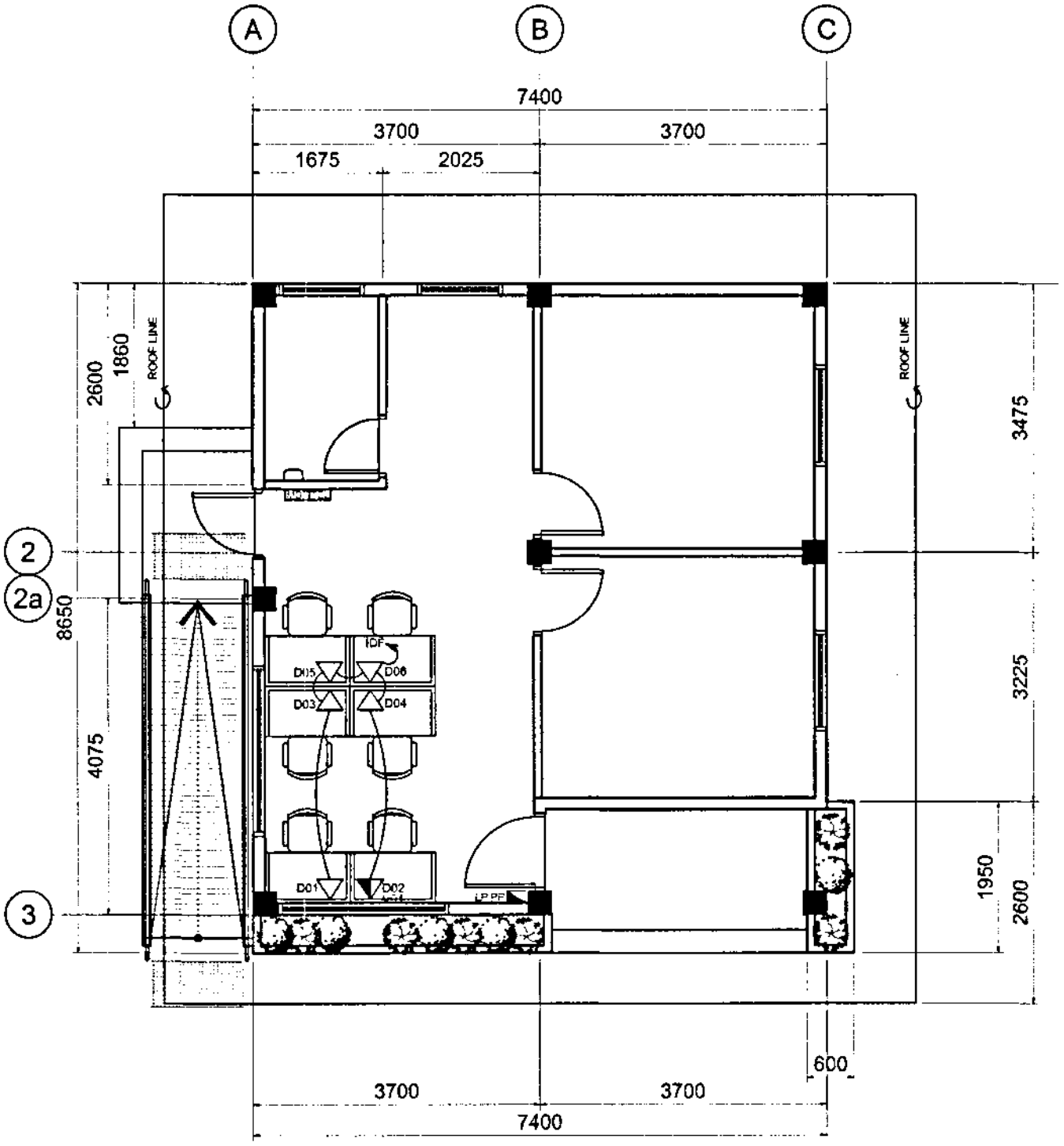
SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS:
- AIR CONDITION LAYOUT PLAN

SCALE: AS SHOWN
SHEET NO. E-03 of 18
DATE: APRIL 2026



4

DATA/TEL 01

DATA/TELEPHONE LAYOUT PLAN

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE

NEW PORT DEVELOPMENT (FIELD OFFICE)

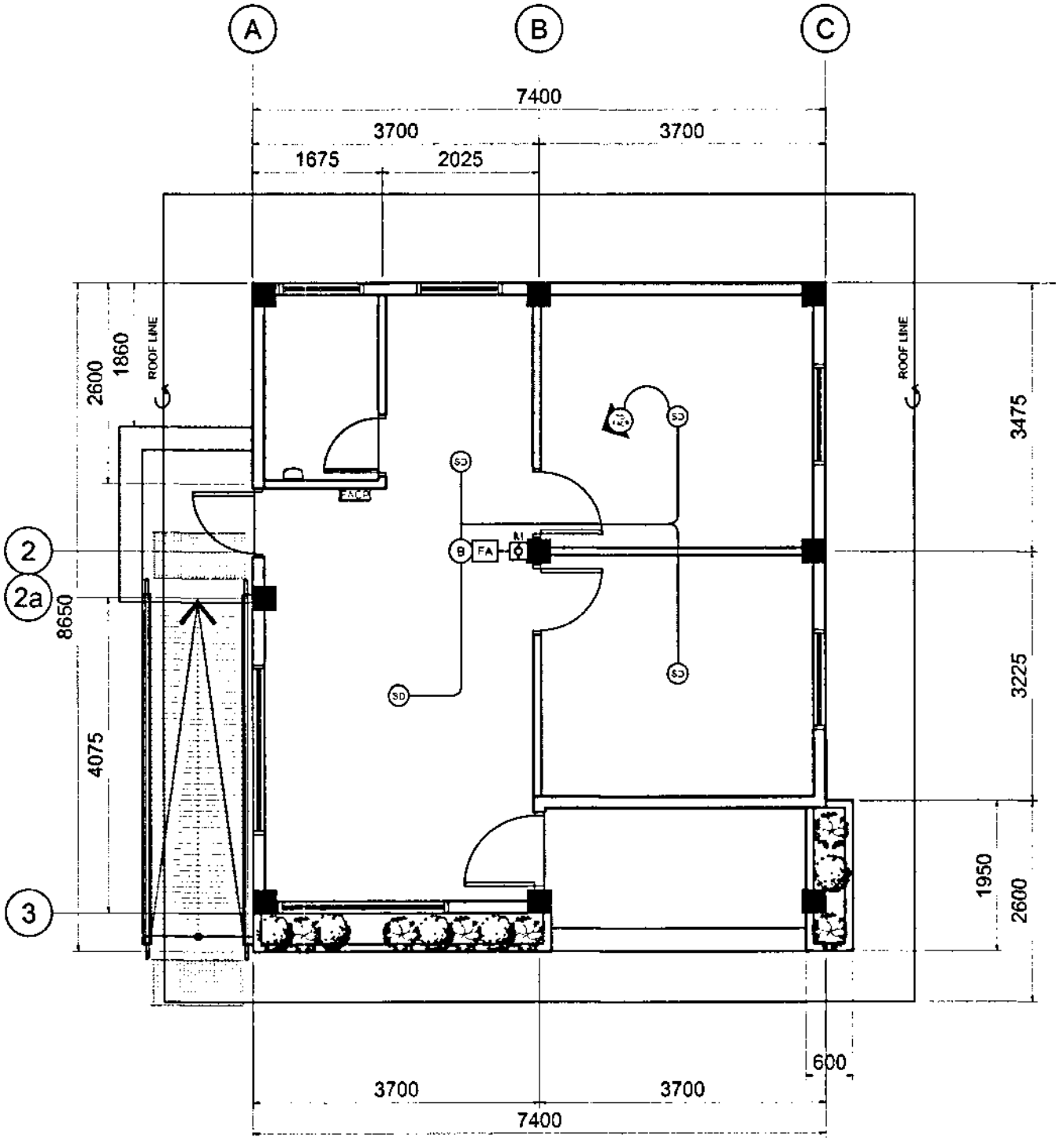
SHEET CONTENTS

- DATA/TELEPHONE LAYOUT PLAN

SCALE: AS SHOWN

SHEET NO. E-04 of 18

DATE: APRIL 2026

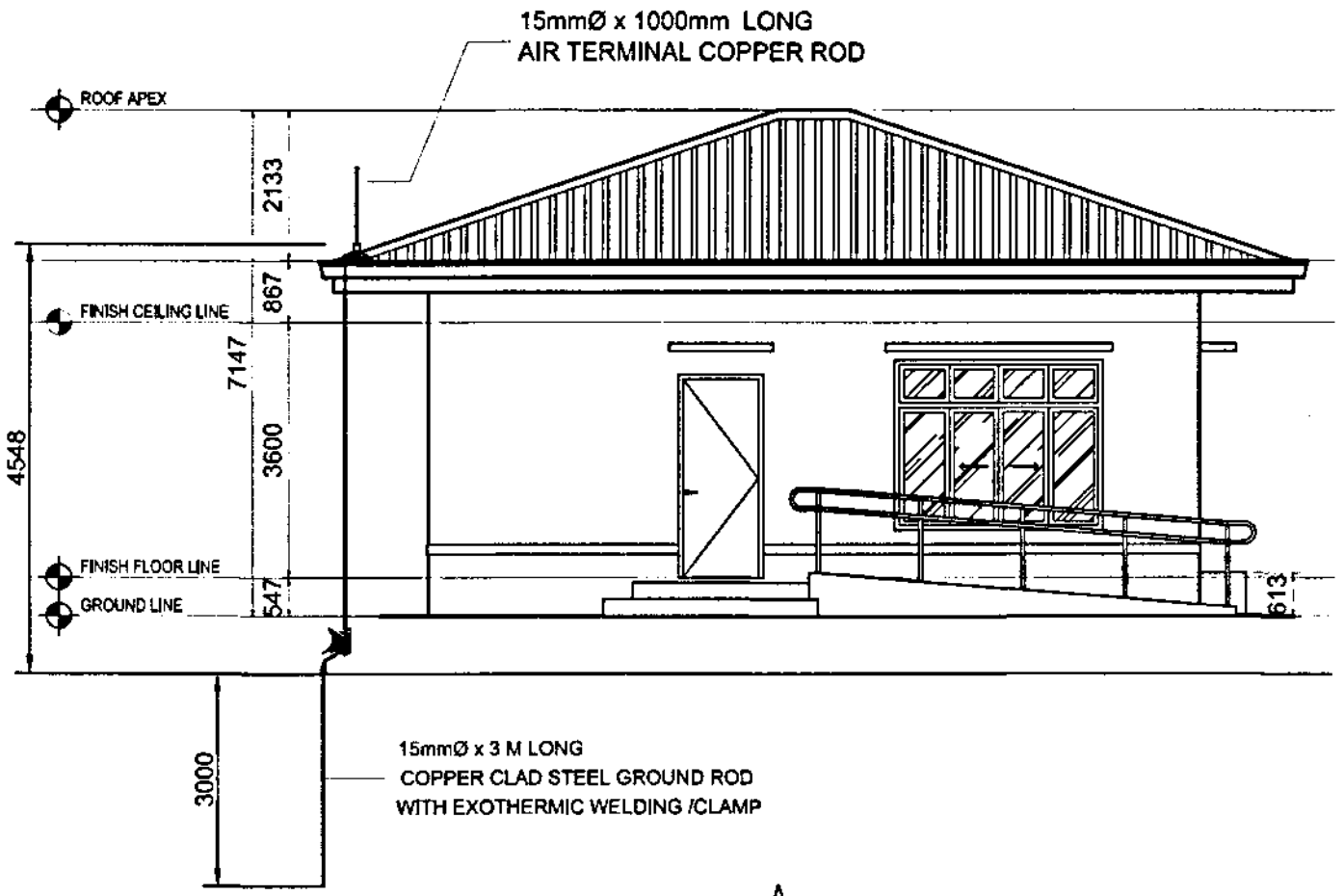


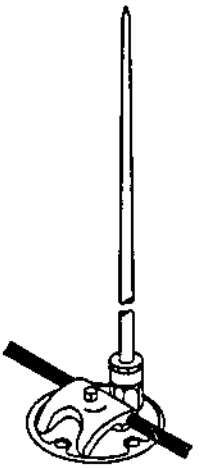
FIRE DETECTION AND ALARM SYSTEM LAYOUT PLAN

5
FDAS 01

SCALE 1:75 M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)	SHEET CONTENTS: • FIRE DETECTION AND ALARM SYSTEM LAYOUT PLAN	SCALE: AS SHOWN SHEET NO.: E-05 of 18 DATE: APRIL 2026





15mmØ x 1000mm LONG
AIR TERMINAL COPPER ROD

FLAT FINIAL BASE

BARE COPPER WIRE

AIR TERMINAL COPPER ROD

LIGHTNING PROTECTION LAYOUT PLAN

6
LP 01

SCALE 1: 75M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS:
- LIGHTNING PROTECTION LAYOUT PLAN

SCALE: AS INDICATED

SHEET NO. E-06 of 18

DATE: APRIL 2008

LP/PP FIELD OFFICE
SCHEDULE OF LOAD

LP/PP CKT. NO.	LT	CO	LOAD DESCRIPTION	VOLT	CURRENT	WIRE (mm^2) (THHN / THWN)	CONDUIT mm (PVC)	CKT. BKR PROTECTION
1	13		LIGHTING	230	1.31	2 - 3.5	20 (1/2") * 3m	20AT-2P
2	13		LIGHTING	230	1.02	2 - 3.5	20 (1/2") * 3m	20AT-2P
3		7	DUPLEX CONVENIENCE OUTLET	230	10.96	2 - 3.5 + 1 - 2.0	20 (1/2") * 3m	30AT-2P
4		7	DUPLEX CONVENIENCE OUTLET	230	10.96	2 - 3.5 + 1 - 2.0	20 (1/2") * 3m	30AT-2P
5			1.5 HP SLIT TYPE ACU	230	4.95	2 - 5.5 + 1 - 3.5	25 (3/4") * 3m	30AT-2P
6			1.5 HP SLIT TYPE ACU	230	4.95	2 - 5.5 + 1 - 3.5	25 (3/4") * 3m	30AT-2P
7			CEILING CASSETTE TYPE ACU, 3TR	230	18.00	2 - 8.0 + 1 - 5.5	25 (3/4") * 3m	40AT-2P
8			S P A R E	230	3.00			30AT-2P
9			S P A R E	230	3.00			30AT-2P
10			S P A C E	230				
MAIN DISCONNECTED PANEL (MDP)				230	58.16	2 - 30 + 1 - 8.0	32mm * 3m	100AT-2P

SCALE

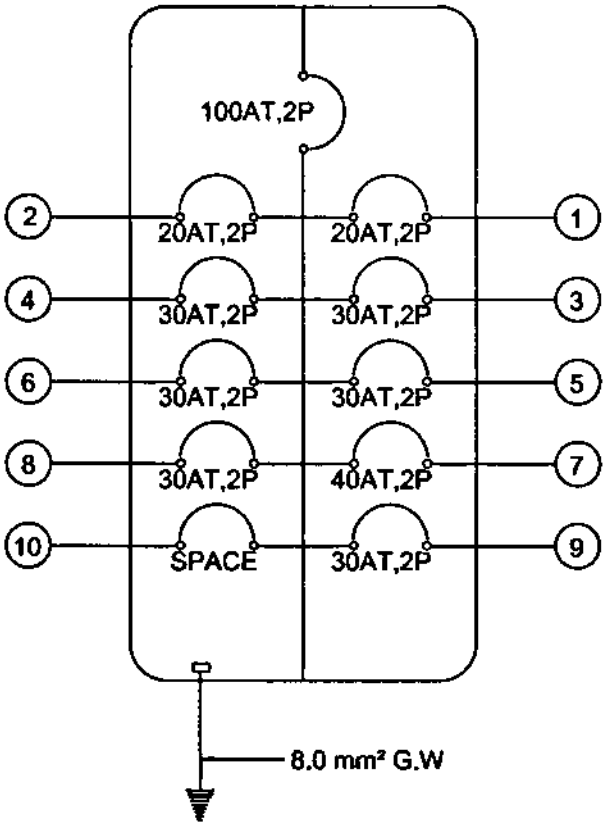
SHEET NO. E-07 of 18

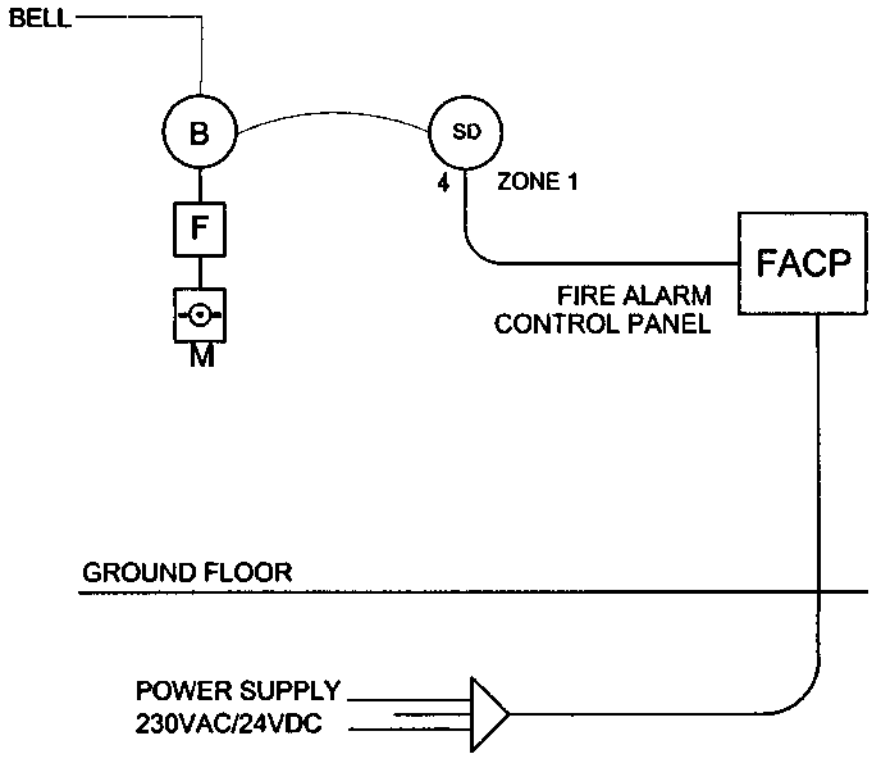
DATE

SHEET CONTENTS
- SCHEDULE OF LOAD

PROJECT TITLE
NEW PORT DEVELOPMENT (FIELD OFFICE)

PHILIPPINE PORTS AUTHORITY



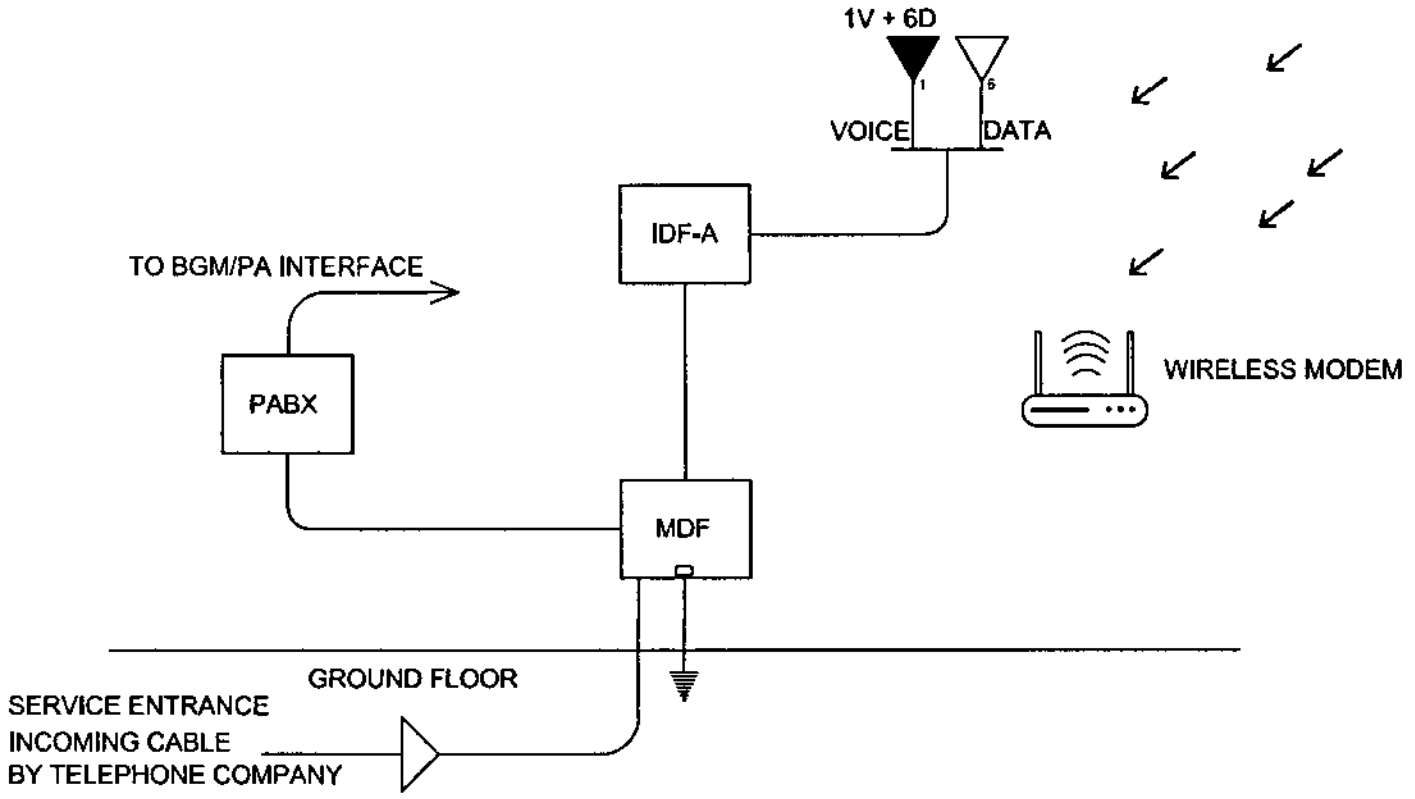


FIRE DETECTION ALARM SYSTEM (FDAS) SINGLE LINE DIAGRAM

NOTES ON FDAS:

1. THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE / MANUAL TYPE WITH CLASS "A" WIRING MICROPROCESSOR BASED.
2. THE COMPLETE FIRE ALARM SYSTEM SHALL BE FURNISHED/INSTALLED BY ACCREDITED AND APPROVED SUPPLIER INCLUSSIVE OF WIRING/EQUIPMENT.
3. MINIMUM SIZE OF CONDUIT TO BE USED SHALL BE 20mmØ AND THE MINIMUM SIZE OF WIRE TO BE USED SHALL BE 1.25mm TWISTED SHIELDED PAIR.
4. FIRE ALARM CONTROL PANEL SHALL BE AS MANUFACTURED BY "SIMPLEX" MODEL TRUE ALARM.
5. SMOKE DETECTOR SHALL BE PHOTOELECTRIC TYPE.

SCALE
SHEET NO. E-08 of 18
DATE
SHEET CONTENTS:
FIRE DETECTION ALARM SYSTEM SINGLE LINE DIAGRAM
PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)
PHILIPPINE PORTS AUTHORITY

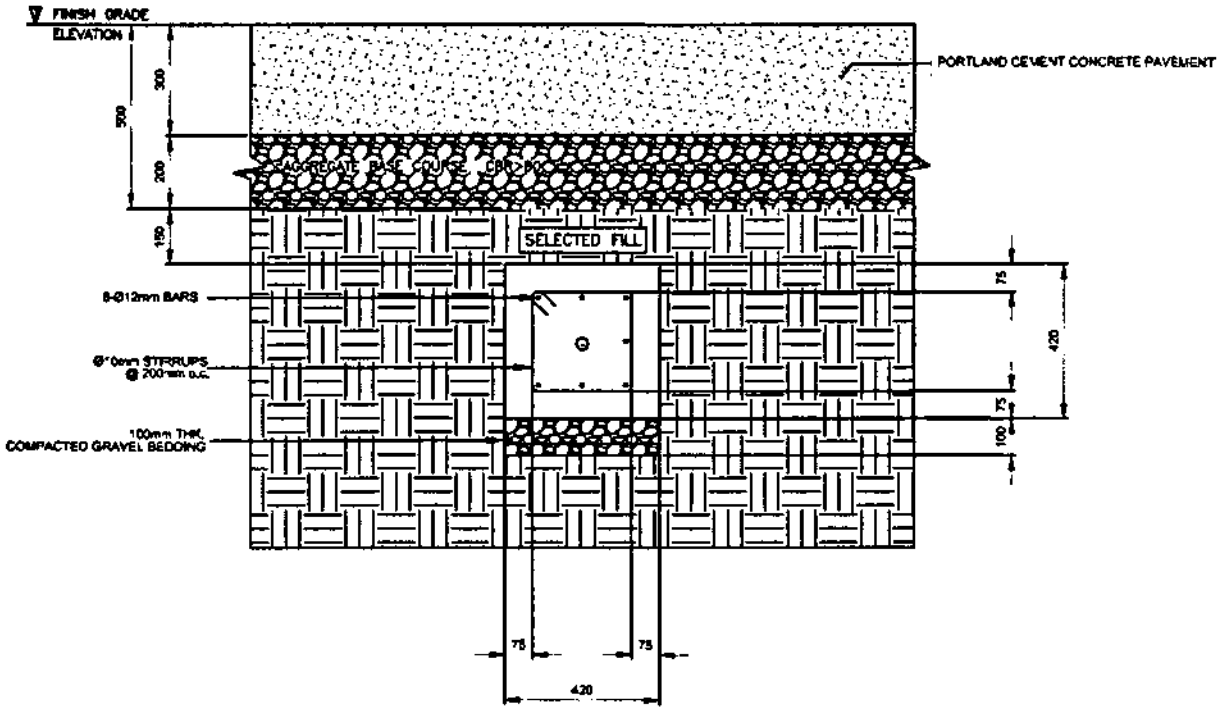


TELEPHONE SINGLE LINE DIAGRAM

NOTES ON DATA/TELEPHONE :

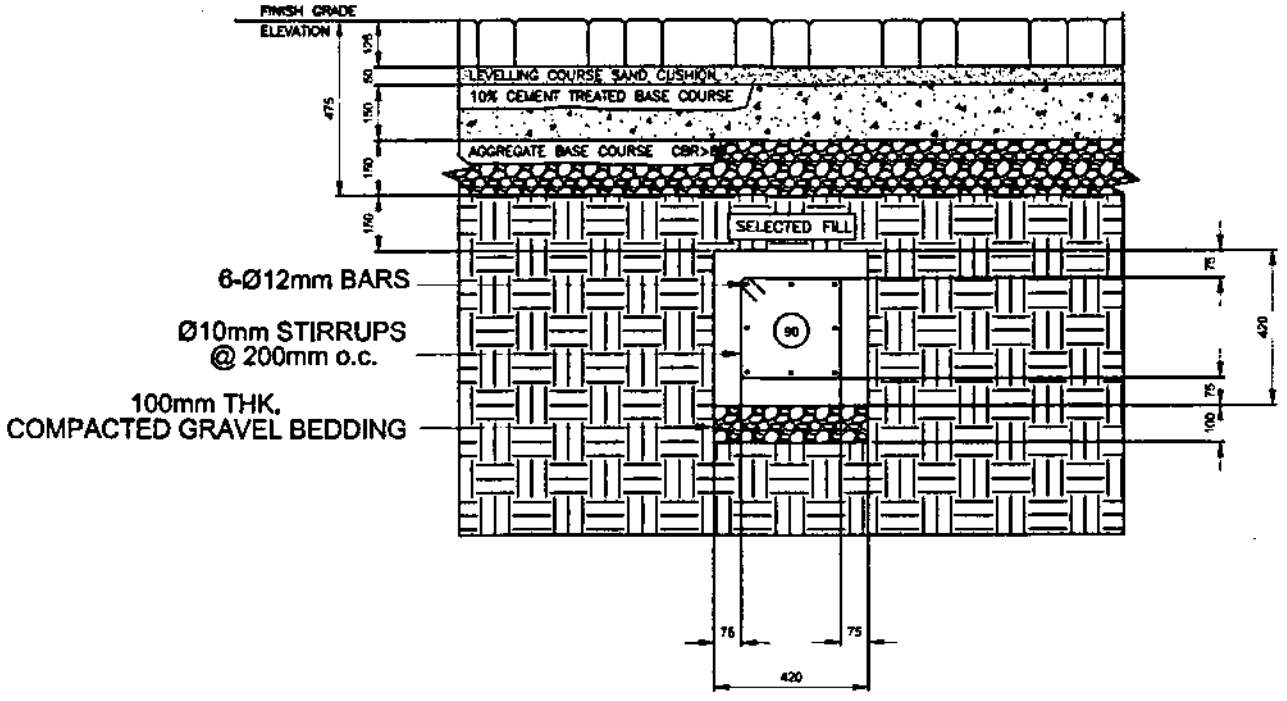
1. CABLE CONDUIT FILL SHALL BE AS FOLLOWS FOR VOICE / DATA.
2. TYPE OF DATA CABLE TO BE USED SHALL BE CAT. 6, AND DATA PORTS SHALL BE CAT. 6 DATA GRADE.
3. TELEPHONE CABLES SHALL BE CAT. 6 TELEPHONE OUTLETS SHALL BE CAT. 6 DATA GRADE.
4. VOICE/DATA CABLE HOMERUNS SHALL UTILIZE OVERHEAD WIRE WAY UP TO SERVER ROOM.
5. INTERMEDIATE DISTRIBUTION FRAME (IDF) SHALL BE OPEN BAY TO INCLUDE RACK ASSEMBLY HARDWARE ,10 HIGH CAPACITY CABLE MANAGERS, 10 HOOK AND LOOP CABLE MANAGERS GROUMMENTS AND GROUND LUGS.
6. FINAL LOCATIONS OF VOICE / DATA OUTLETS SHALL BE AS PER ACTUAL CONDITIONS AT SITE.
7. ALL VOICE / DATA EQUIPMENTS SHALL BE LOCATED AT SERVER ROOM.

SCALE
SHEET NO. E-09 of 18
DATE
SHEET CONTENTS
PROJECT TITLE
NEW PORT DEVELOPMENT (FIELD OFFICE)
PHILIPPINE PORTS AUTHORITY



DETAIL OF DUCTBANK ON FIELD OFFICE TO POWER HOUSE

SCALE 1:20



DETAIL OF DUCTBANK ON DATA / TELEPHONE TO CONCRETE PEDESTAL POST

SCALE 1:20

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

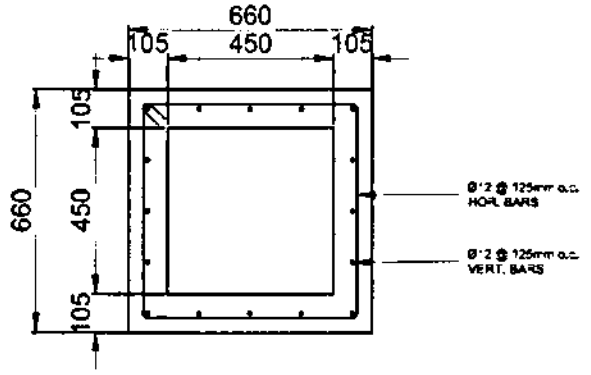
SHEET CONTENTS:

- DETAIL OF DUCTBANK ON FIELD OFFICE TO POWER HOUSE
- DETAIL OF DUCTBANK ON DATA / TELEPHONE TO CONCRETE PEDESTAL POST

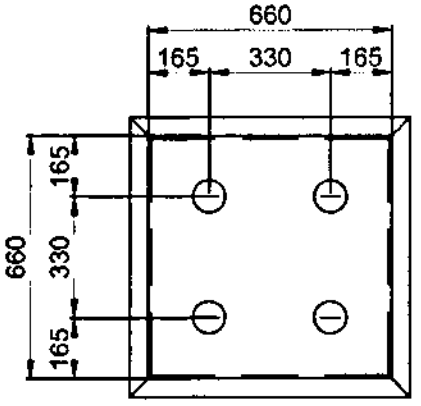
SCALE: AS SHOWN

SHEET NO.: E-10 of 18

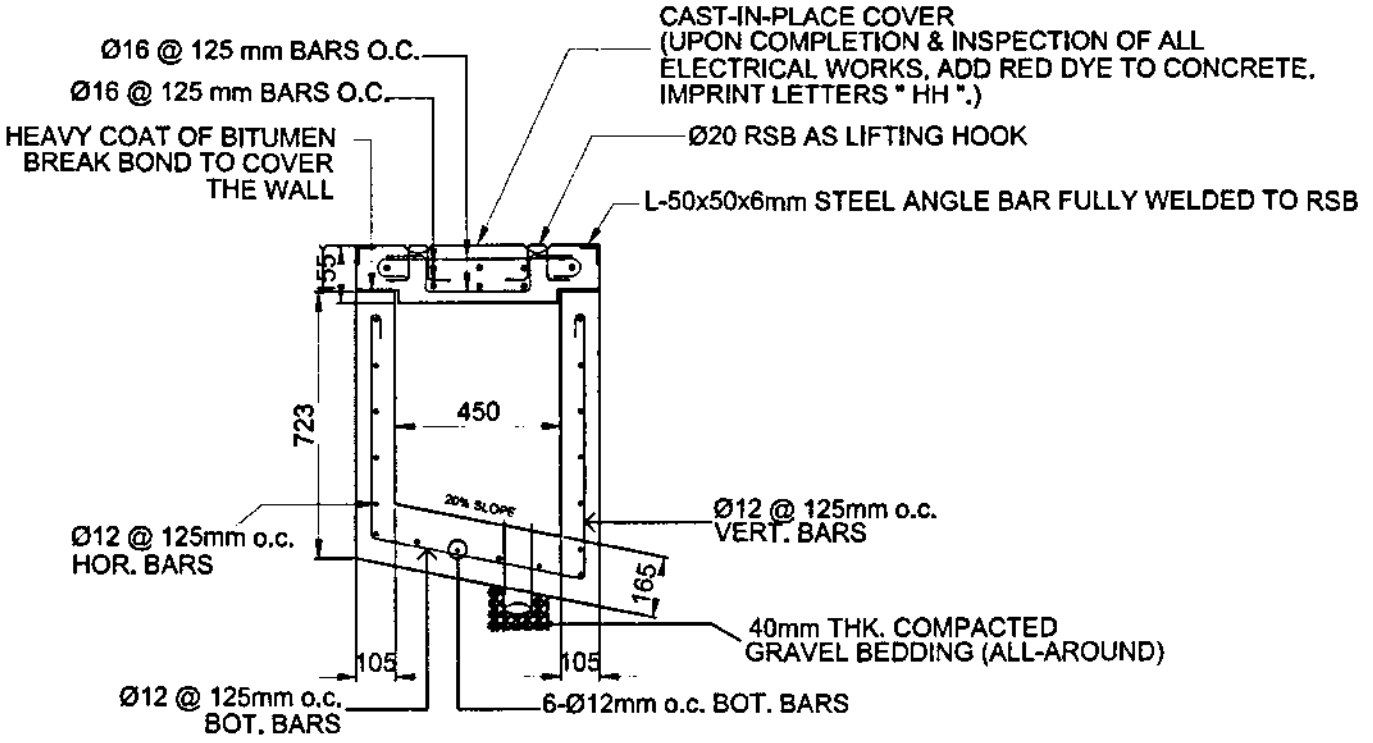
DATE: APRIL 2016



2 / E 05 PLAN
SCALE 1:20



4 / E 05 COVER
SCALE 1:20



3 / E 05 SECTION
SCALE 1:20

ELECTRICAL HANDHOLE DETAIL

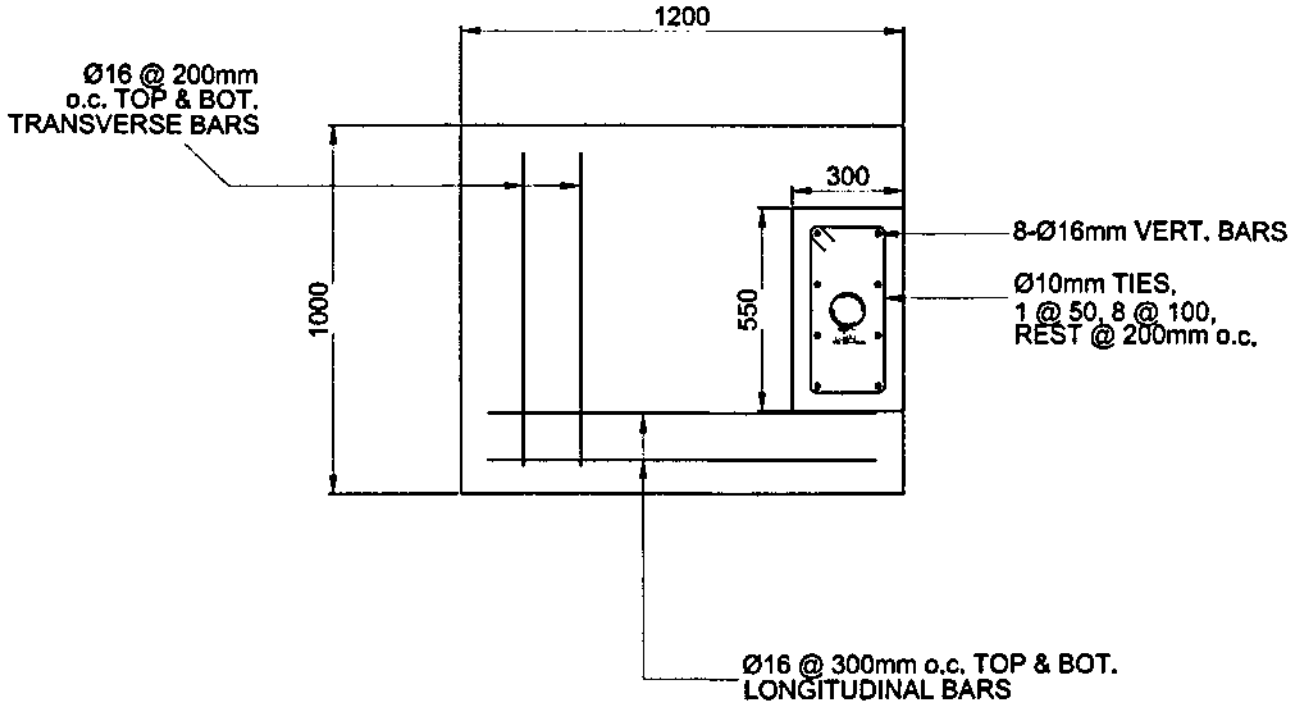
1 / E 05 SCALE 1:10 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS:
- ELECTRICAL HANDHOLE DETAIL

SCALE: AS SHOWN
SHEET NO. E-11 of 18
DATE: APRIL 2008



5
E | 05

PLAN

SCALE 1:20M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

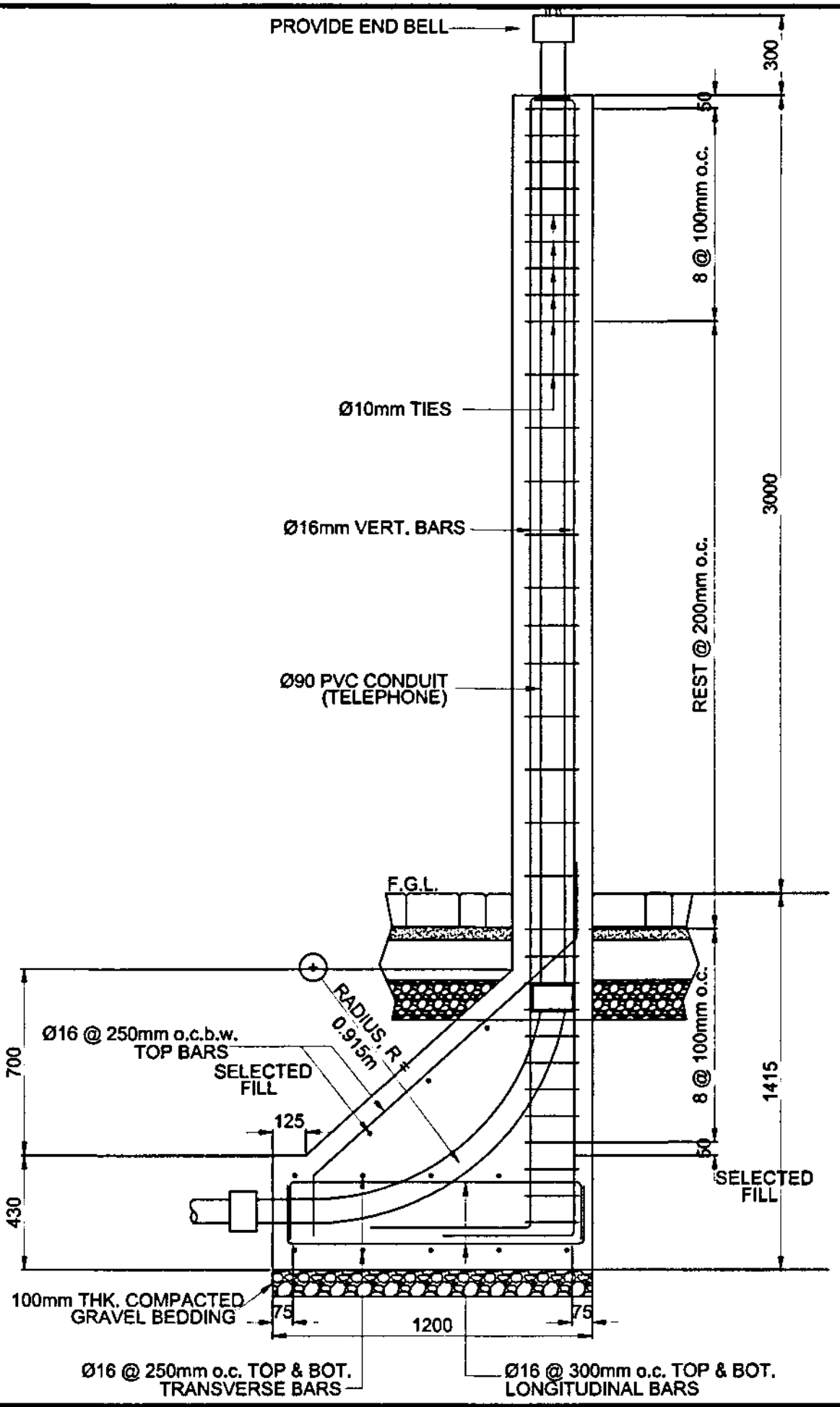
SHEET CONTENTS:

- DATA/TELEPHONE PEDESTAL POST DETAIL

SCALE: AS SHOWN

SHEET NO. E-12 of 18

DATE: APRIL 2020



PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

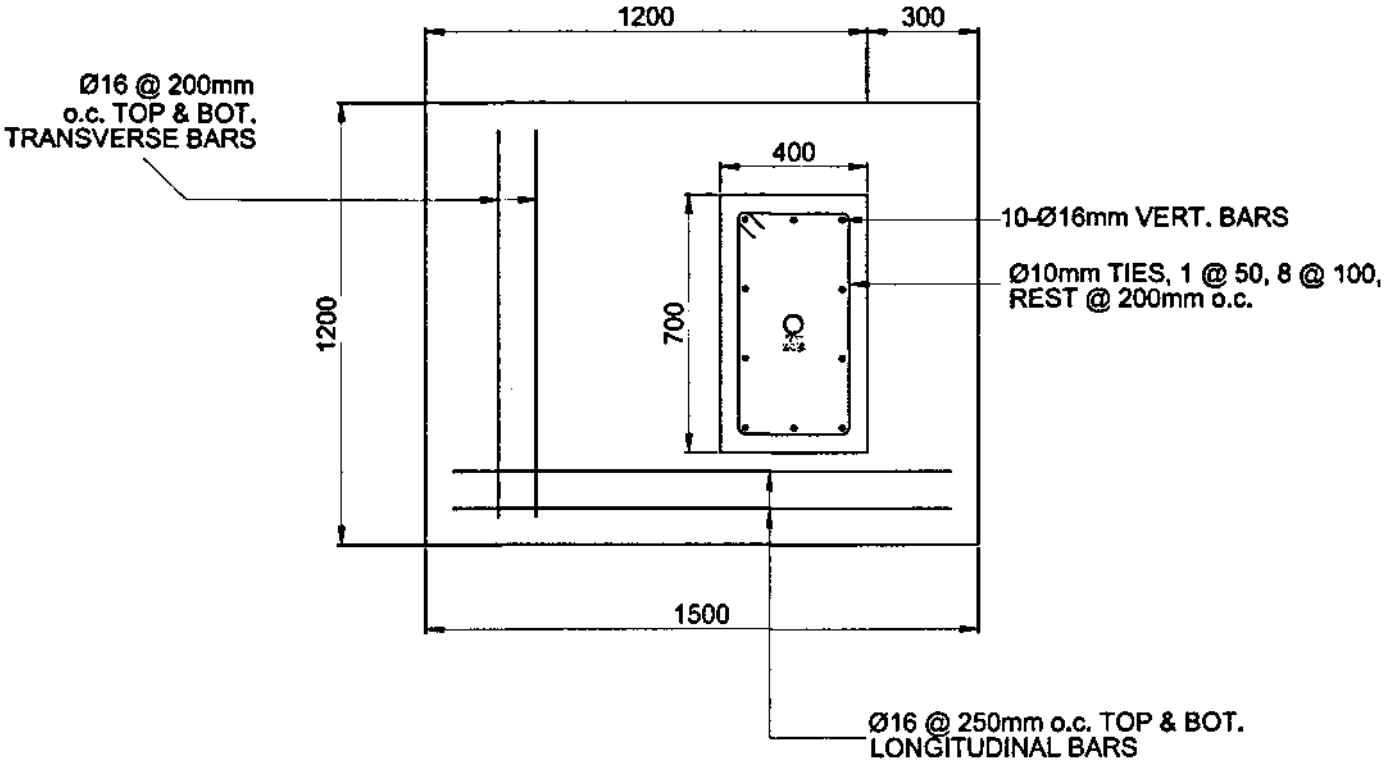
SHEET CONTENTS:

- DETAILS

SCALE: AS SHOWN

SHEET NO. E-13 of 18

DATE: APRIL 2015

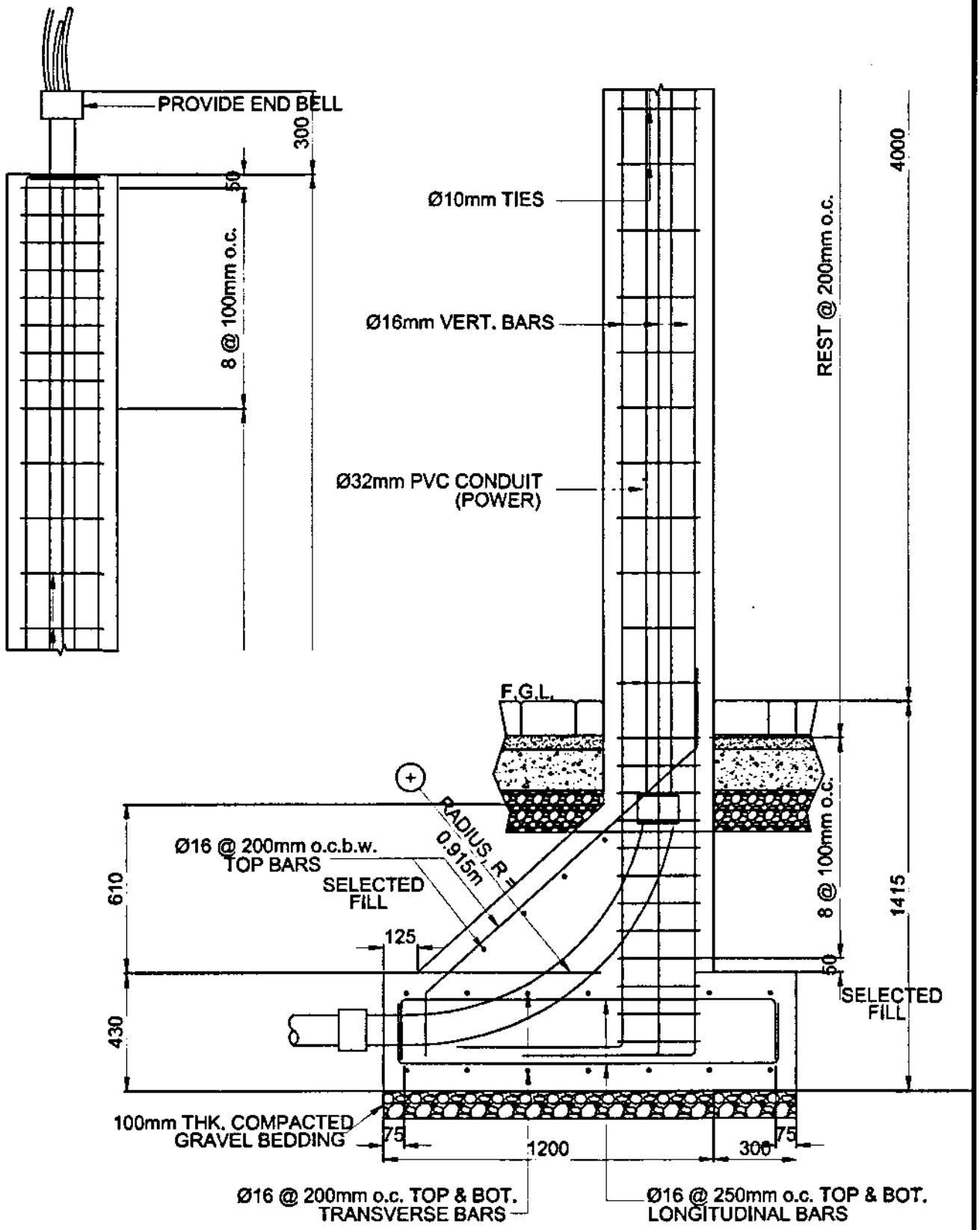


7
E | 05

PLAN

SCALE 1:20M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)	SHEET CONTENTS: • POWER PEDESTAL PORT DETAIL	SCALE: AS SHOWN SHEET NO. E-14 of 18 DATE: APRIL 2022



POWER

PEDESTAL POST DETAIL

8 / E 05

SCALE 1:20 M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: NEW PORT DEVELOPMENT (FIELD OFFICE)	SHEET CONTENTS: • POWER PEDESTAL POST DETAIL	SCALE: AS SHOWN SHEET NO. E-15 of 18 DATE: APRIL 2005

SPECIFICATIONS:

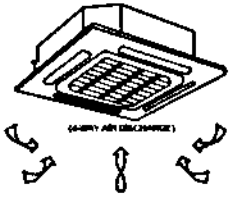
MECHANICAL EQUIPMENT SCHEDULE (CEILING MOUNTED CASSETTE TYPE INVERTER AIR-CONDITION)

NOMINAL RATING (HP) CEILING CASSETTE	COOLING CAPACITY (kJ/HR)	POWER SUPPLY (V/PH/HZ)	INDOOR UNIT									OUTDOOR UNIT								
			UNIT DIMENSIONS (mm)			SYSTEM TYPE OF REFRIGERANT	RATED REFRIGERANT AMPERE	SEER RANGE (kJ/W-HR)	WEIGHT (kg)	AIR FLOW (m³/hr)	SOUND LEVEL (dBA)	UNIT DIMENSIONS (mm)				PIPE CONNECTION				
			WIDTH	DEPTH	HEIGHT							WIDTH	DEPTH	HEIGHT	WEIGHT (kg)	LIQUID (mm/inch)	GAS (mm/inch)	REFRIGERANT	MAXIMUM LENGTH (m)	MAXIMUM VERTICAL SEPARATION (m)
3.0	40,000	220/1/60	845	840	245	R-410A	16.60	12.30	25.00	2,100	47	955	344	1090	71/65.5	9.5 (3/8")	15.9 (5/8")	R410A	30	

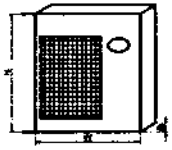
NOTES:

PERFORMANCE RATING AND SPECIFICATION OF AIR CONDITIONERS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE DUE TO CONTINUOUS PRODUCT IMPROVEMENT

CEILING MOUNTED CASSETTE TYPE



OUTDOOR AIR COOLED CONDENSING UNIT

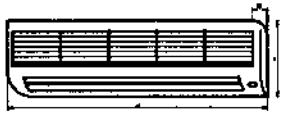


MECHANICAL EQUIPMENT SCHEDULE (SPLIT TYPE INVERTER AIR-CONDITION)

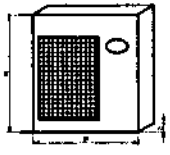
NOMINAL RATING (HP)	COOLING CAPACITY (kJ/HR)	SYSTEM POWER INPUT (HA115)	SYSTEM CURRENT (A)	SEASONAL EFFICIENCY RATIO (SEER) (kJ/W-HR)	POWER SUPPLY (V/PH/HZ)	INDOOR UNIT						OUTDOOR UNIT								
						UNIT DIMENSIONS (mm)			UNIT WEIGHT (KG)	AIR VOLUME (m³/min)	SOUND LEVEL (dBA)	UNIT DIMENSIONS (mm)			UNIT WEIGHT (KG)	SOUND PRESSURE LEVEL (dBA)	DATA (R-410A)				
						HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)				HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)			LIQUID (mm/inch)	GAS (mm/inch)	CONNECTION TYPE	MAX. PIPE LENGTH (m)	MAX. VERTICAL DISTANCE (m)
1.5	14,000	1,600	6.95	16.50	220/1/60	700	285	275	8	564	57/54/51/27	700	285	360	33	61	6.35(1/4)	9.52(3/8)	FLARE	30	10

SPLIT TYPE AIR-CONDITION

INDOOR UNIT



OUTDOOR UNIT



SHEET CONTENTS

- MECHANICAL EQUIPMENT SCHEDULE (CEILING MOUNTED CASSETTE TYPE & SPLIT TYPE AIR-CONDITION)
- MECHANICAL EQUIPMENT SCHEDULE (CEILING MOUNTED CASSETTE TYPE & SPLIT TYPE AIR-CONDITION)

SCALE: AS SHOWN

SHEET NO. E-16 of 18

DATE: APRIL 2024

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

PHILIPPINE PORTS AUTHORITY

MAIN DISCONNECT PANEL (MDP)

CKT. NO.	LOAD DESCRIPTION	VOLT	CURRENT	WIRE (mm²) (THHN / THWN)	CONDUIT mm (PVC)	CKT. BKR PROTECTION
1	POLE 1-9 DP (PORT LIGHTING)	230	78.00	2 - 30 + 1 - 8.0	40 (1 1/4") * 3m	100AT-2P
2	FIELD OFFICE	230	58.16	2 - 30 + 1 - 8.0	32 (1") * 3m	100AT-2P
3	POWER HOUSE	230	13.26	2 - 5.5 + 1 - 2.0	25 (3/4") * 3m	25AT-2P
4	PUMP HOUSE	230	28.45	2 - 8.0 + 1 - 5.5	25 (3/4") * 3m	40AT-2P
5	GATE COMPLEX 1	230	10.83	2 - 5.5 + 1 - 2.0	25 (3/4") * 3m	25AT-2P
6	GATE COMPLEX 2	230	10.83	2 - 22 + 1 - 5.5	32 (1") * 3m	50AT-2P
TOTAL CONNECTED LOAD			199.53	2* 2- 38 + 1* 22	50mm (1-1/2")	250AT-2P

NOTE: LOCATE THE MAIN DISTRIBUTION PANEL (MDP) AT THE POWERHOUSE.

SCALE

SHEET NO. E-17 of 18

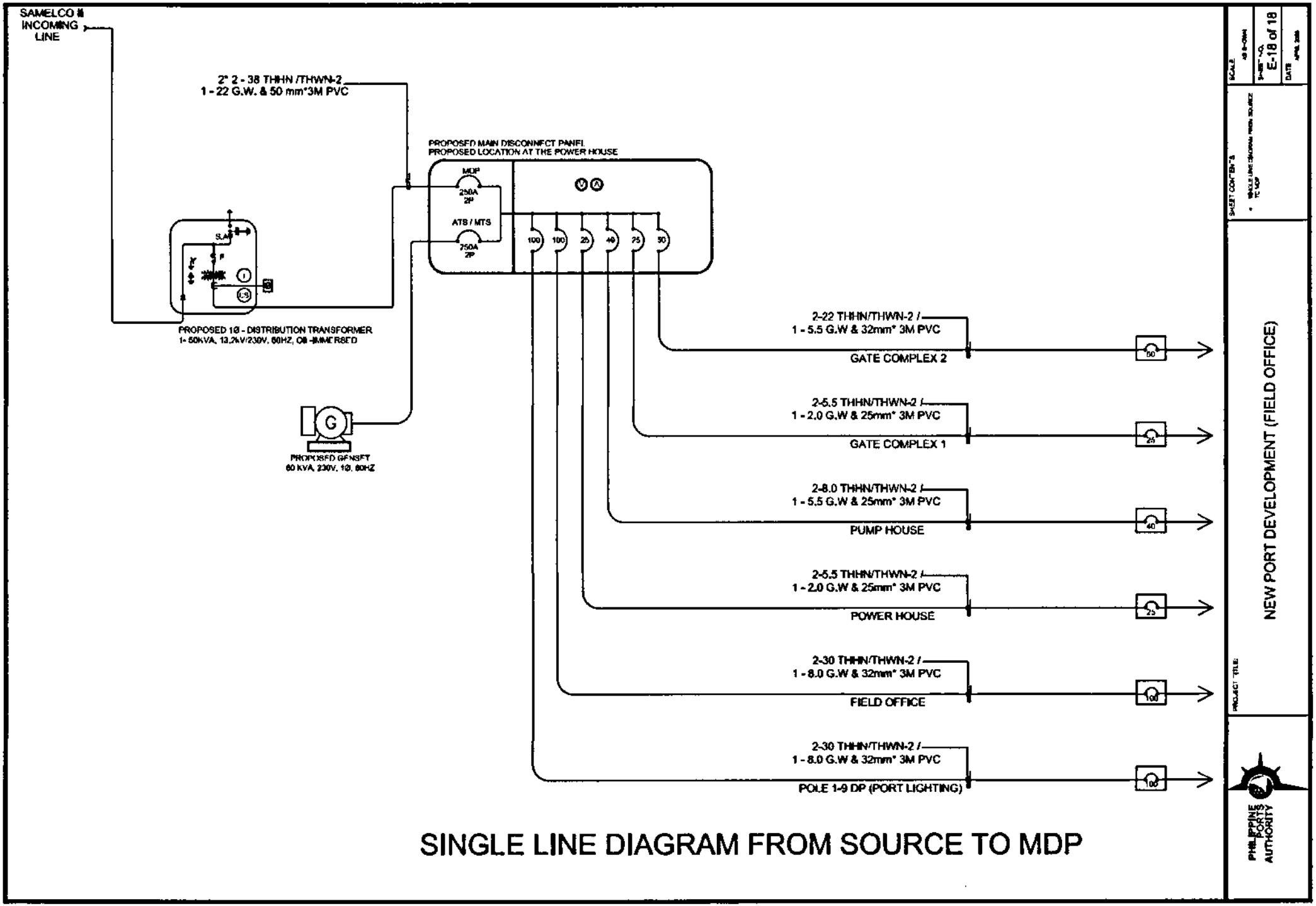
DATE

SHEET CONTENTS

PROJECT TITLE:

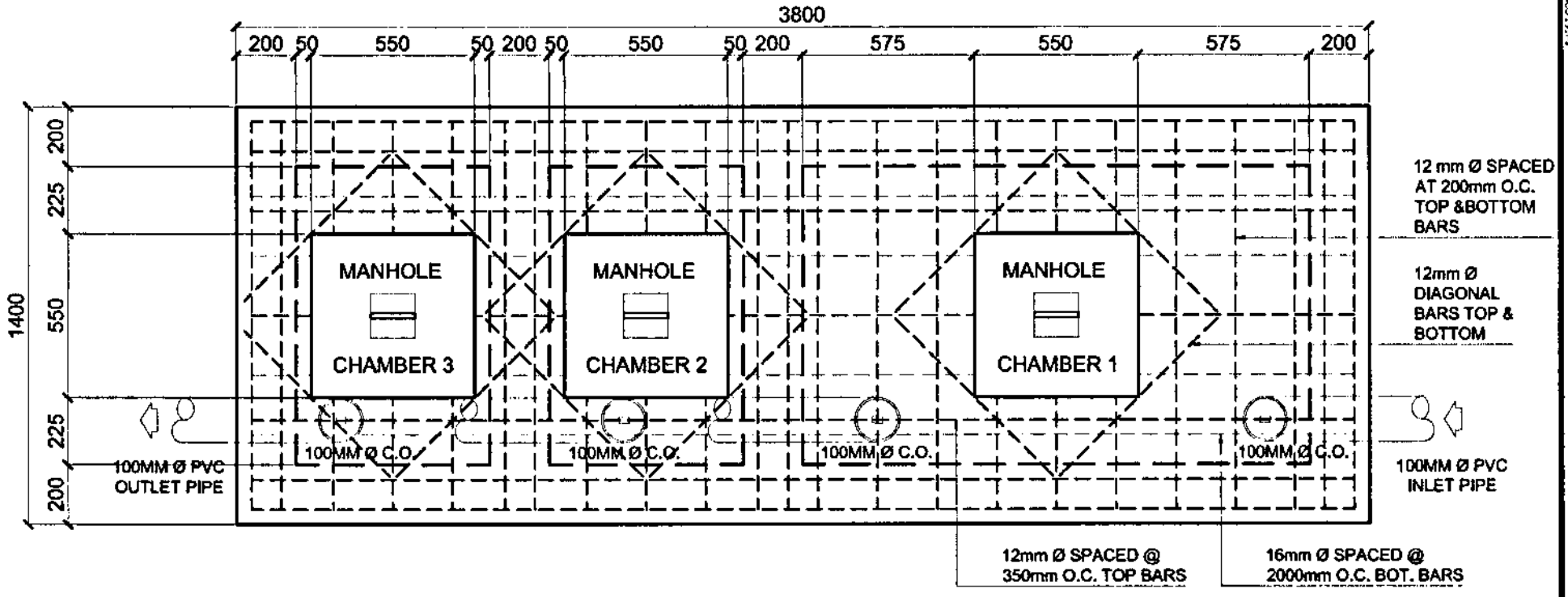
NEW PORT DEVELOPMENT (FIELD OFFICE)

PHILIPPINE PORTS AUTHORITY



SINGLE LINE DIAGRAM FROM SOURCE TO MDP

DETAILS OF SEPTIC TANK



1-A
FO 15

PLAN OF SEPTIC TANK

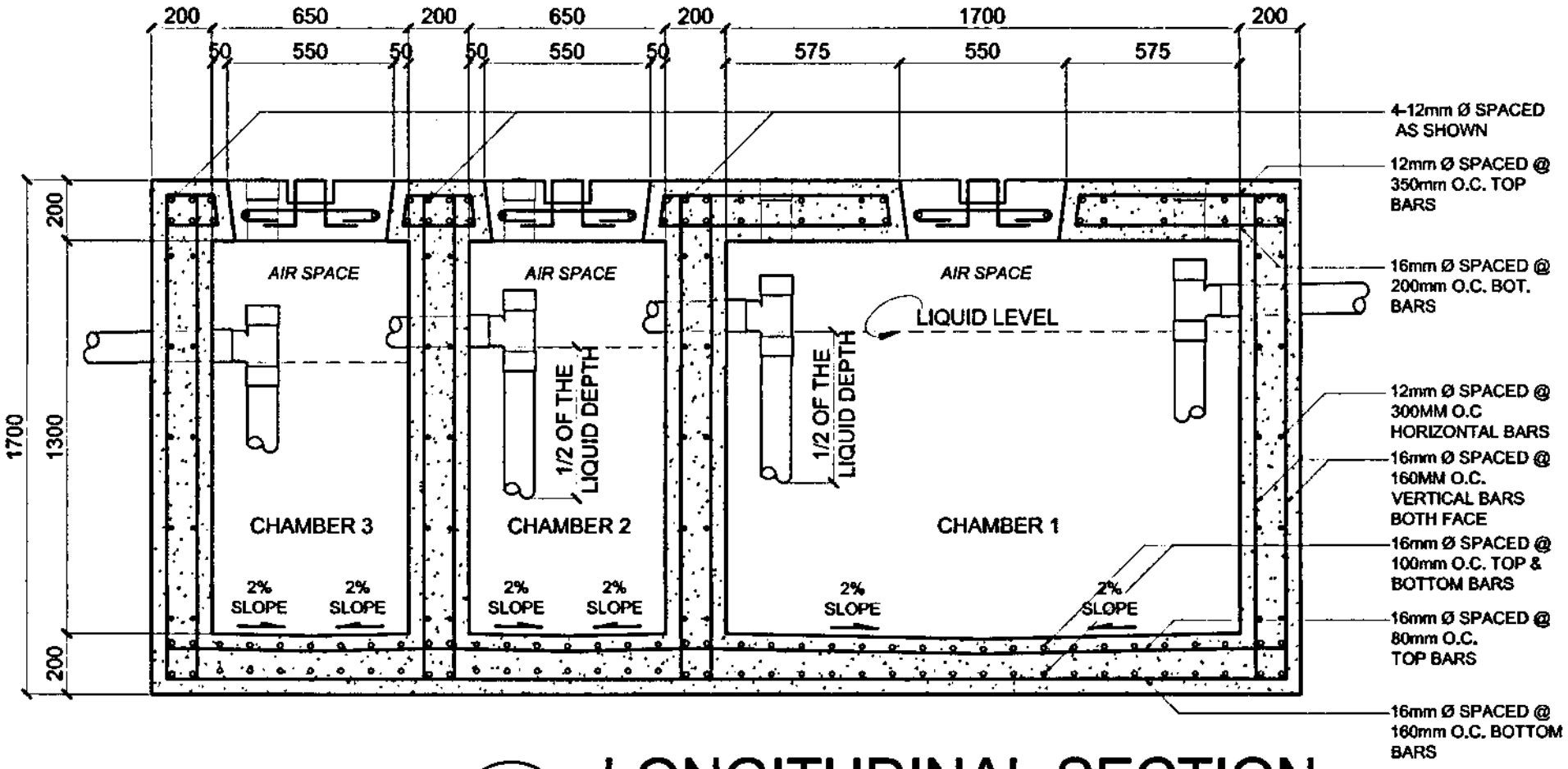
SCALE 1:20 M

SHEET NO. P-01 of 09

NEW PORT DEVELOPMENT (FIELD OFFICE)

PHILIPPINE PORTS AUTHORITY

DETAILS OF SEPTIC TANK



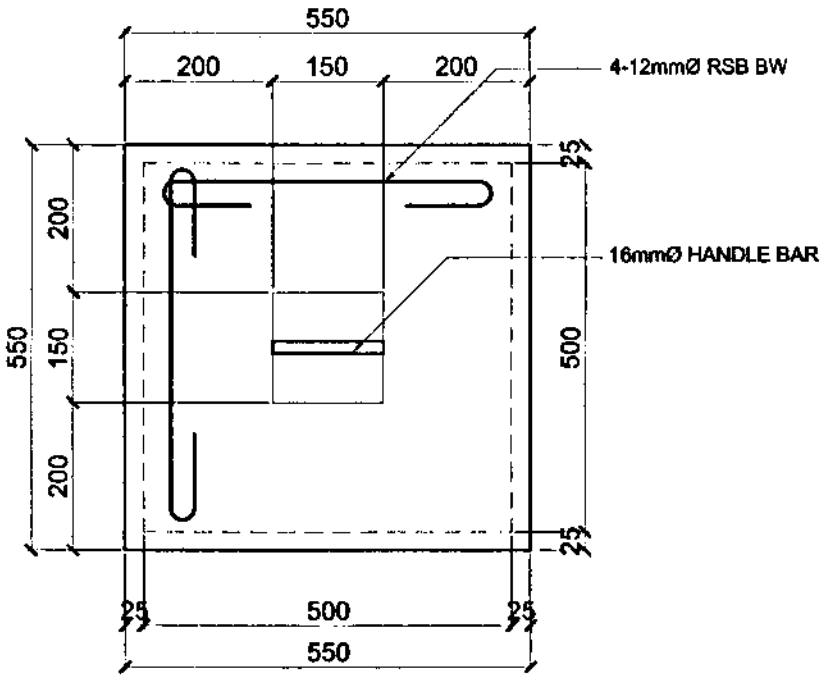
1-B
FO 15

LONGITUDINAL SECTION

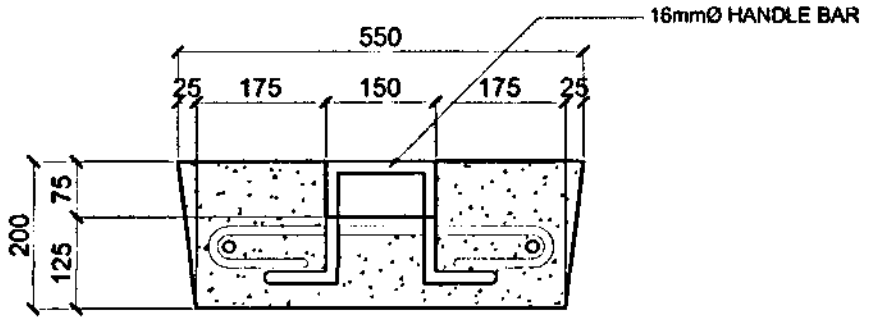
SCALE 1:20 M

SCALE
SHEET NO. P-02 of 09
DATE
SHEET CONTENTS
- DETAILS OF SEPTIC TANK
PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)
PHILIPPINE PORTS AUTHORITY

DETAILS OF SEPTIC TANK



PLAN



SECTION

SEPTIC TANK MANHOLE COVER DETAILS

1-C / FO 15

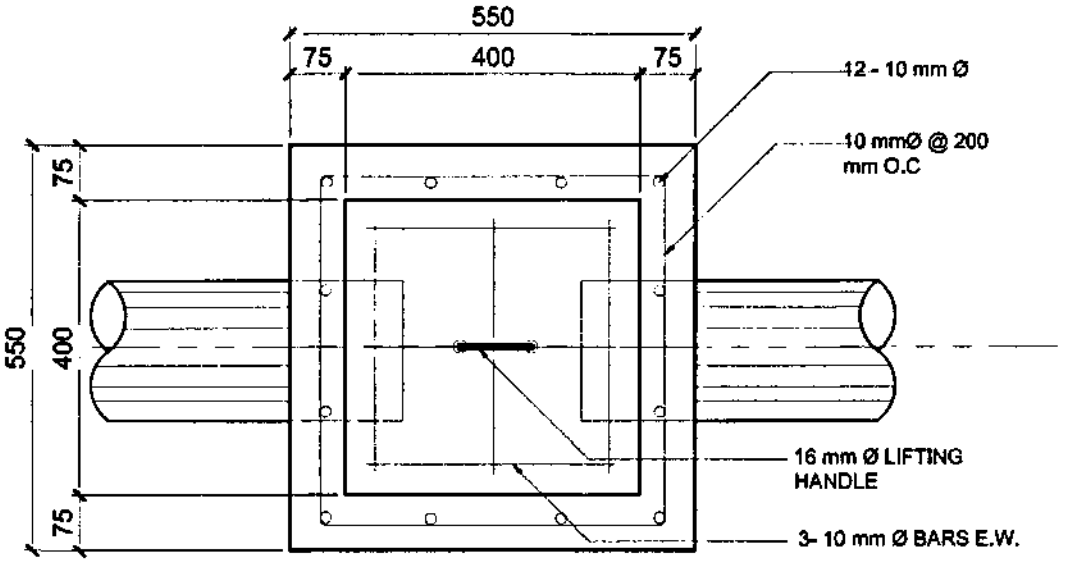
SCALE 1:10 M

SHEET NO. P-03 of 09

NEW PORT DEVELOPMENT (FIELD OFFICE)

PHILIPPINE PORTS AUTHORITY

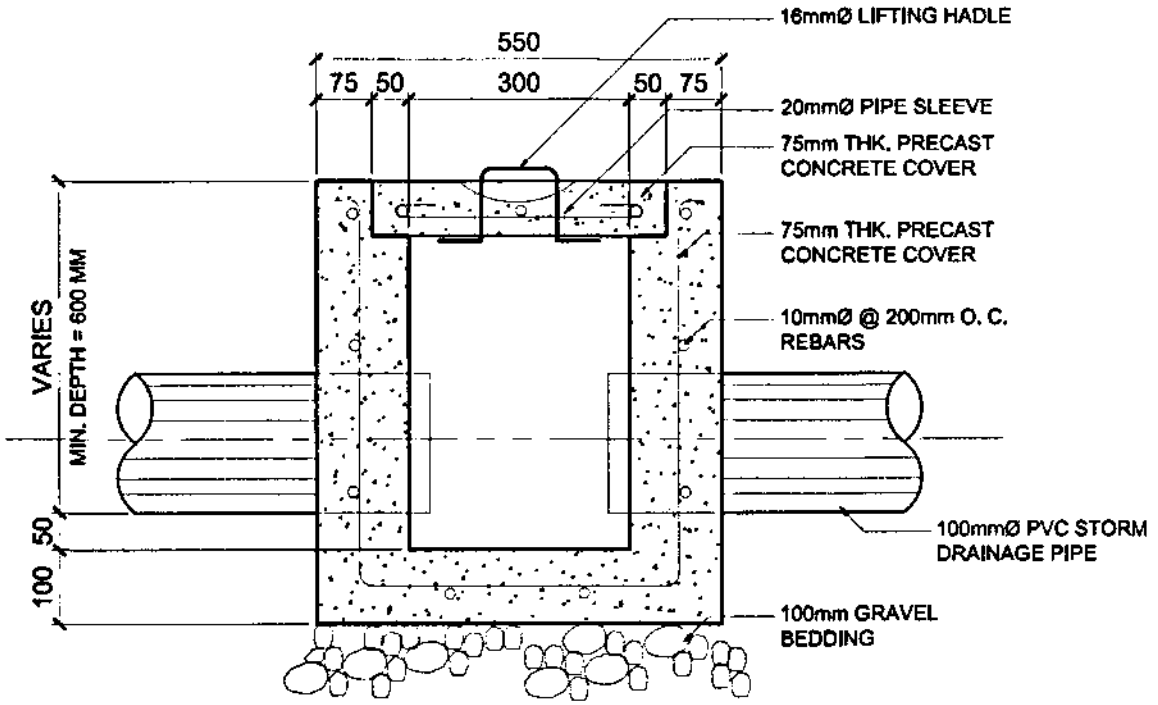
DETAILS OF CATCH BASIN



4-A
FO 15

PLAN OF CATCH BASIN

SCALE 1:10 M



4-B
FO 15

LONGITUDINAL SECTION

SCALE 1:10 M

PHILIPPINE PORTS AUTHORITY

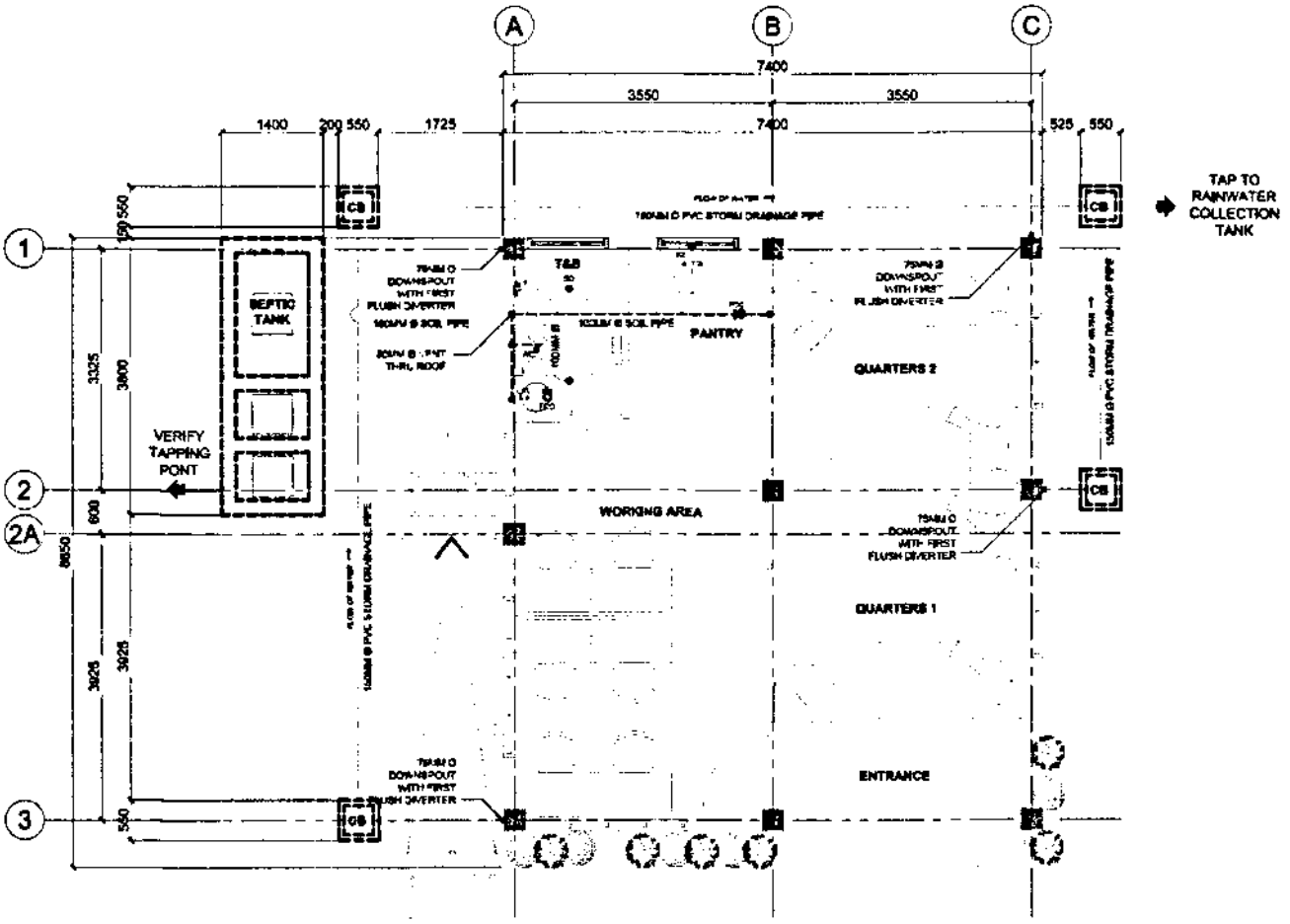
PROJECT TITLE:
NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS:
- DETAILS OF CATCH BASIN

SCALE:

SHEET NO.
P-04 of 09

DATE:



1 / FO 16 SCALE

GROUND FLOOR SEWER AND STORM DRAINAGE LAYOUT PLAN

1:100 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

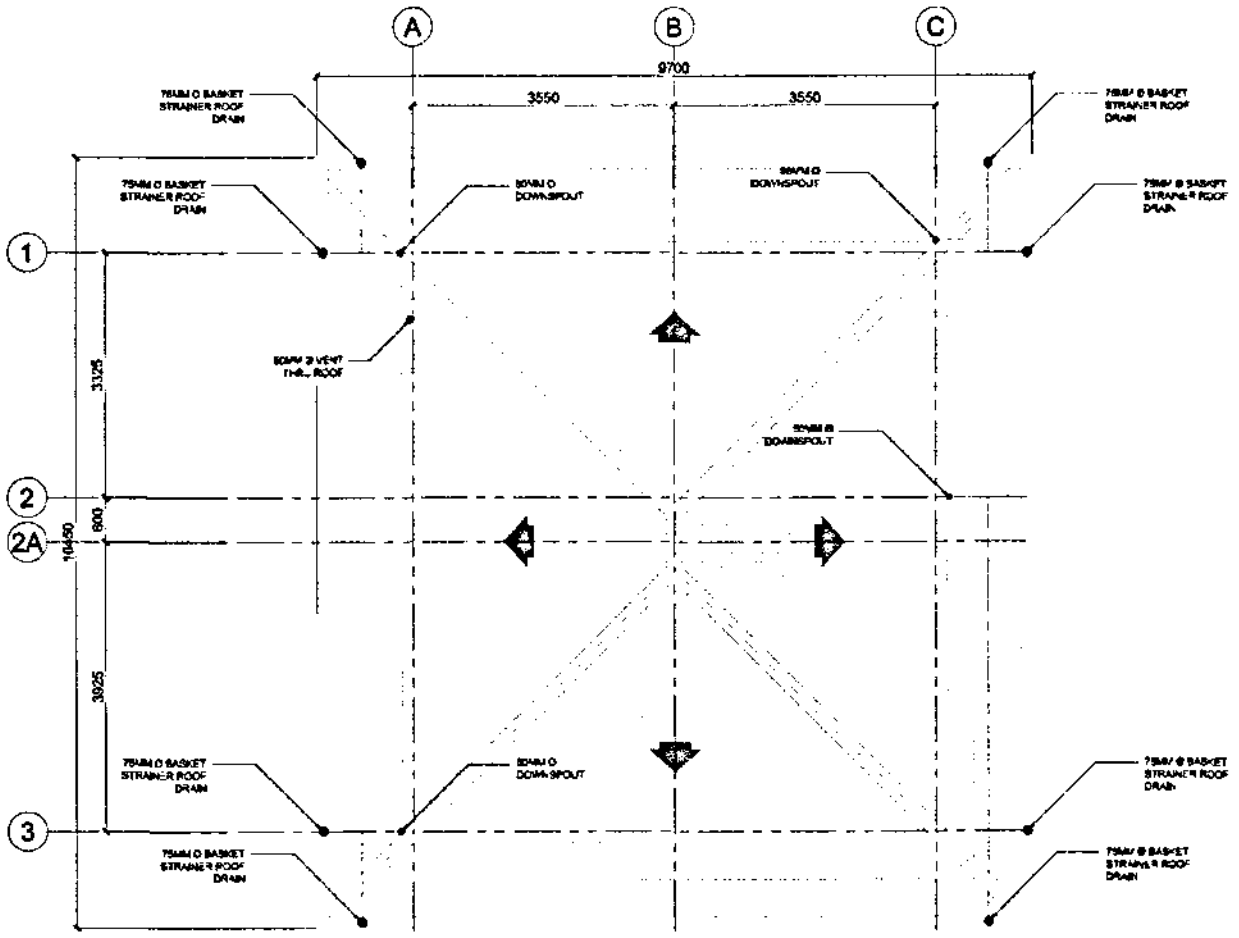
SHEET CONTENTS:

- GROUND FLOOR SEWER AND STORM DRAINAGE LAYOUT PLAN

SCALE: AS SHOWN

SHEET NO. P-05 of 09

DATE APRIL 2020



2 / FO 16 ROOF STORM DRAINAGE LAYOUT PLAN

SCALE 1:100 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

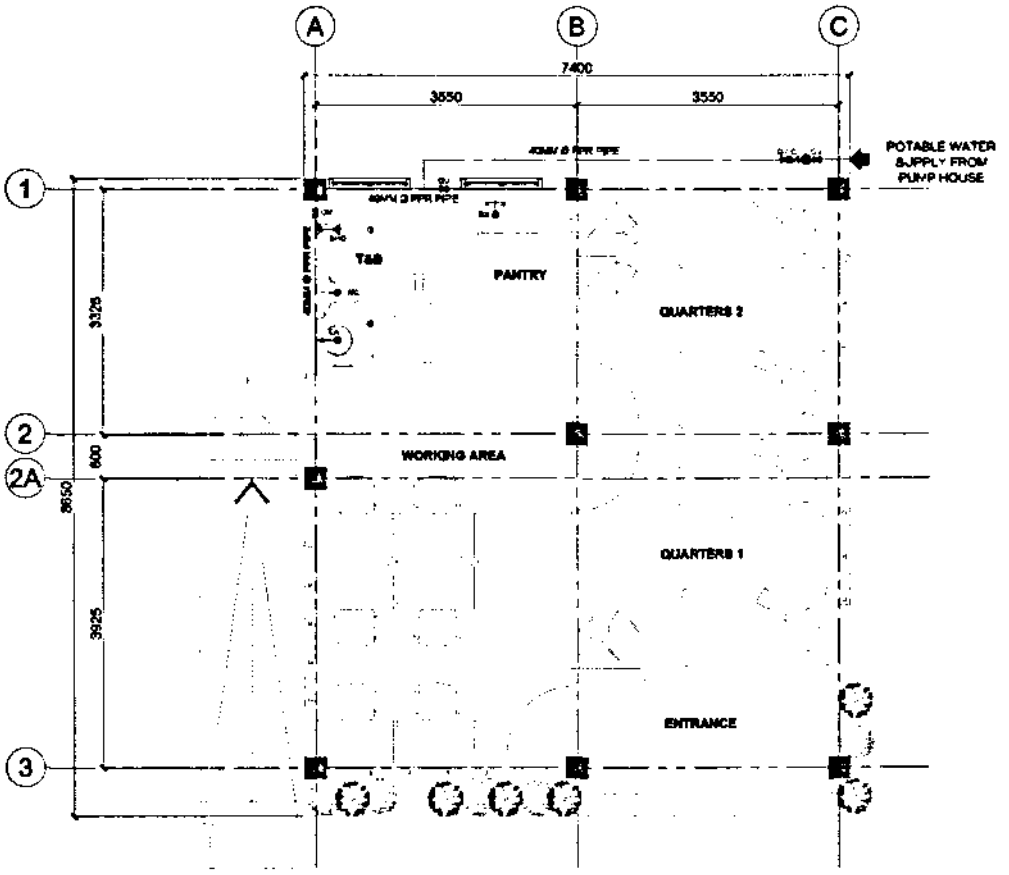
SHEET CONTENTS:

- ROOF STORM DRAINAGE LAYOUT PLAN

SCALE: AS SHOWN

SHEET NO. P-06 of 09

DATE: APRIL 2025



3 / FO 18 GROUND FLOOR WATER DISTRIBUTION LAYOUT PLAN

SCALE 1:100 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

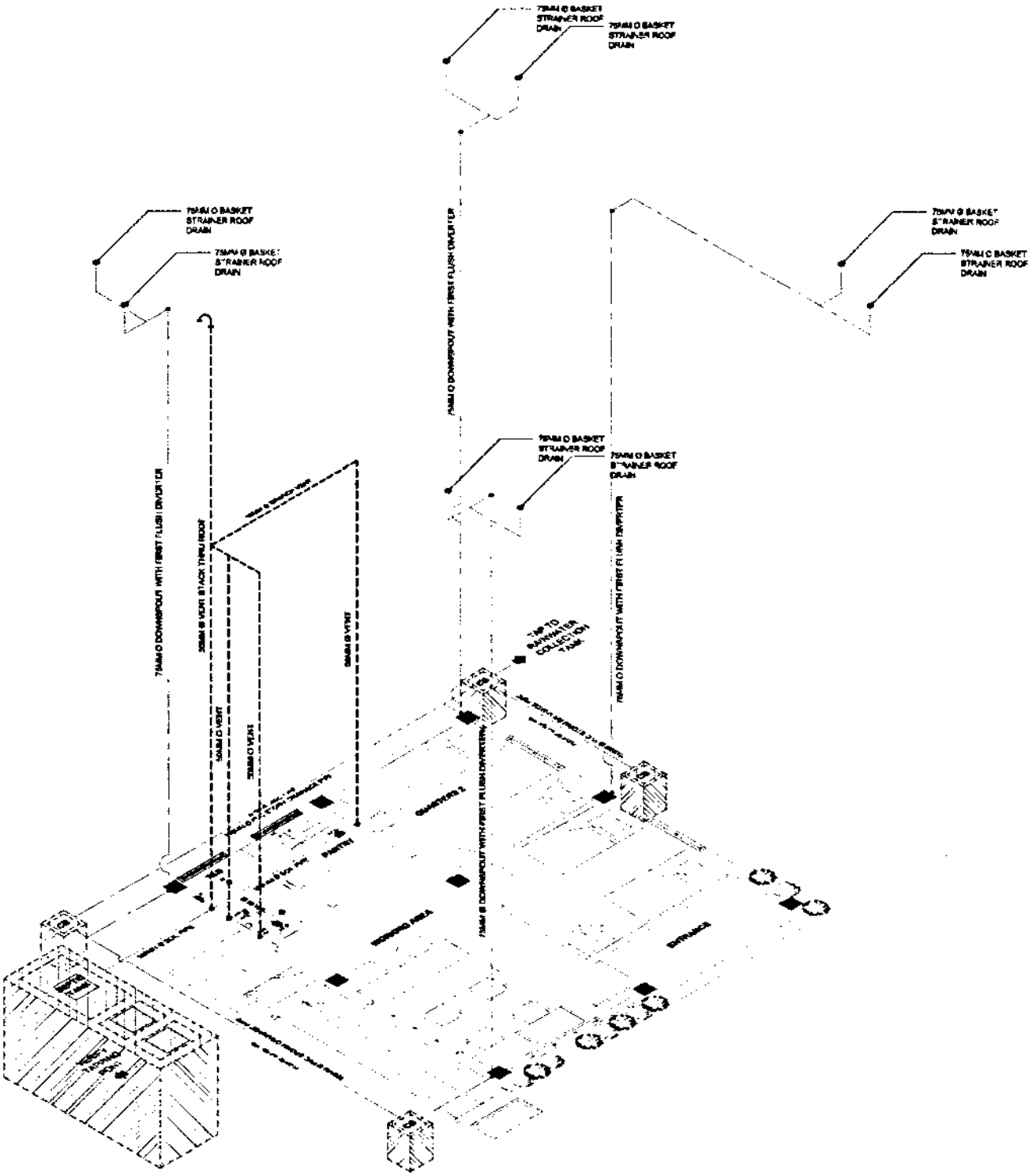
SHEET CONTENTS:

- GROUND FLOOR WATER DISTRIBUTION LAYOUT PLAN

SCALE:

SHEET NO. P-07 of 09

DATE:



1
FO 17

SEWER AND STORM WATER DRAINAGE ISOMETRIC LAYOUT

SCALE 1:100M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

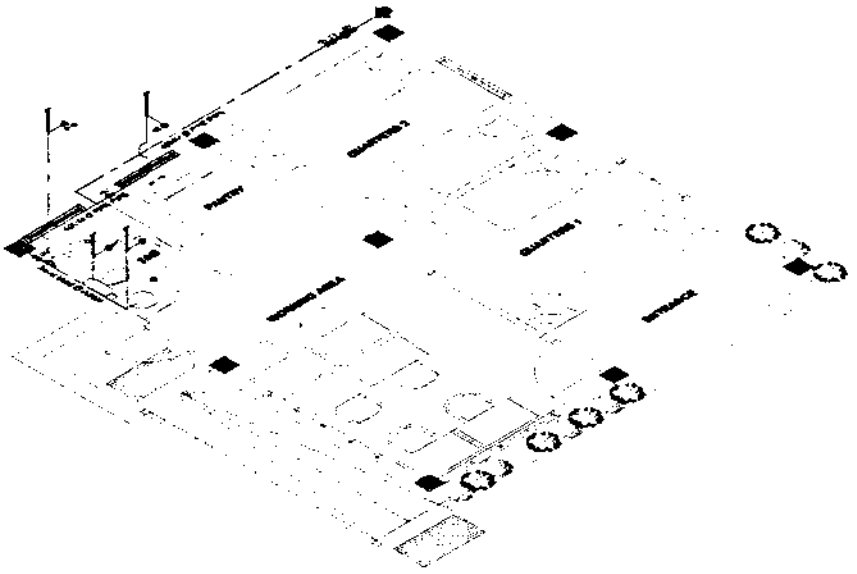
SHEET CONTENTS:

- SEWER AND STORM WATER DRAINAGE ISOMETRIC LAYOUT

SCALE:

SHEET NO. P-08 of 09

DATE



2
FO 17

WATER DISTRIBUTION ISOMETRIC LAYOUT

SCALE 1:100M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

NEW PORT DEVELOPMENT (FIELD OFFICE)

SHEET CONTENTS:

- WATER DISTRIBUTION ISOMETRIC LAYOUT

SCALE: AS SHOWN

SHEET NO. P-09 of 09

DATE: APRIL 2025

SECTION VII

DRAWINGS
(APPROVED PLANS)

DRAWINGS AND APPROVED PLANS
(SEE ISSUED APPROVED PLANS)

LIST OF DRAWINGS:

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3 OF 38	PORT OPERATIONAL AREA PLAN
4 OF 38	OFFSHORE ELEVATION OF PORT
5 OF 38	EASTERN SIDE ELEVATION
6 OF 38	WESTERN SIDE ELEVATION
7 OF 38	SECTIONS AT LINE A
8 OF 38	SECTIONS AT LINE A
9 OF 38	SECTIONS AT LINE A
10 OF 38	SECTIONS AT LINE A
11 OF 38	SECTIONS AT LINE A
12 OF 38	SECTIONS AT LINE A
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16 OF 38	SECTIONS AT LINE B
17 OF 38	SECTIONS AT LINE B
18 OF 38	SECTIONS AT LINE B
19 OF 38	SECTIONS AT LINE B
20 OF 38	SECTIONS AT LINE B
21 OF 38	SECTIONS AT LINE B
22 OF 38	SECTIONS AT LINE B
23 OF 38	SECTIONS AT LINE B

24 OF 38 SHEET PILING AND ANCHORAGE LAYOUT

25 OF 38 CONNECTION DETAIL OF SHEET PILE, DETAIL OF CHANNEL
DETAIL OF WALE, DETAILS OF WALE SPLICE AND DETAIL OF WALE BOLT

26 OF 38 COMBINE SHEET PILE CROSS SECTION, SECTION AT PILE BUTT
SHOWING DOWEL BARS, CORNER - 1, CORNER – 2
AND PILE COATING AND CONNECTION INTERFACE

27 OF 38 TYPICAL DETAILS OF TIE-ROD ASSEMBLY (STEEL 45)
DETAIL OF MOORING ANCHOR BLOCK AND
TYPICAL DETAILS OF CORNER TIE-ROD ASSEMBLY (STEEL 45)

28 OF 38 DETAIL OF ANCHOR WALL AND DETAIL OF 35T MOORING BOLLARD
FOUNDATION (GRAVITY TYPE) FOR RORO RAMP

29 OF 38 DETAIL OF COPING WALL, DETAIL OF COPING WALL WITH MOORING
BLOCK, DETAIL OF RAMP - 1 COPING WALL AND DETAIL OF RAMP – 2
COPING WALL

30 OF 38 DETAIL OF RAMP RETAINING WALL, DETAIL OF RAMP WING WALL
DETAIL OF 300mm THICK RORO RAMP AND TRANSITION RAMP
PAVEMENT AND TYPICAL PORTLAND CEMENT CONCRETE PAVEMENT
DETAILS

31 OF 38 INSTALLATION DETAIL OF STEEL RAMP PROTECTION

32 OF 38 SECURITY FENCE DETAILS AND DETAIL OF R.C. CURB

33 OF 38 DETAIL OF V-TYPE RUBBER DOCK FENDER 500H x 1000L AND
DETAIL OF V-TYPE RUBBER DOCK FENDER (V-500H x 1500L)

34 OF 38 DETAIL OF V-TYPE RUBBER DOCK FENDER 500H x 2500L AND
DETAIL OF ANCHOR BOLT FOR V-TYPE 500H FENDER

35 OF 38 STORM DRAINAGE PLAN

36 OF 38 LATERAL DRAIN DETAILS

37 OF 38 CATCH DRAIN MANHOLE DETAIL (CD-1)

38 OF 38 DETAIL OF CATCH DRAIN MANHOLE
TYPICAL INSTALLATION OF RC PIPE CULVERT
DRAINAGE AND CATCH DRAIN MANHOLE INTERFACE AND
DETAIL OF OUTFALL

ANNEX – 1 GEOGRAPHICAL BOUNDARIES OF THE PROJECT

SECTION VIII

BILL OF QUANTITIES and ATTACHMENTS

SECTION VIII – BILL OF QUANTITIES

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	1b Bill of Quantities	1
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5.	Annex 4 (Construction Safety and Health Requirements)	35
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BID SUMMARY
NEW PORT DEVELOPMENT PROJECT
Port of Catbalogan, Catbalogan, Samar

NO.	DESCRIPTION OF WORK	AMOUNT (Pesos)
BILL NO. 1	GENERAL EXPENSES	
BILL NO. 2	PORT OPERATIONAL AREA WITH 2-UNITS RORO RAMP ON FILL	
BILL NO. 3	PUMPHOUSE WITH DOMESTIC WATER TANK AND RAINWATER TANK	
BILL NO. 4	POWERHOUSE	
BILL NO. 5	CONSTRUCTION OF GATE COMPLEX 1 AND 2	
	BID PRICE	

Name of Firm

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

Date

BILL OF QUANTITIES
NEW PORT DEVELOPMENT PROJECT
Port of Catbalogan, Catbalogan, Samar

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	1 GENERAL EXPENSES				
1.01	Mobilization, demobilization and cleaning	lot	1		
1.02	Provide field office and residence for the Engineer and staff	lot	1		
1.03	Maintain temporary site office and residence for the Engineer and staff	mo.	24		
1.04	Provide Construction Safety and Health Program in the execution of the project	mo.	24		
	TOTAL FOR BILL NO. 1				-

Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity

BILL OF QUANTITIES
NEW PORT DEVELOPMENT PROJECT
Port of Catbalogan, Catbalogan, Samar

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	**2 PORT OPERATIONAL AREA WITH 2-UNITS RORO RAMP ON FILL**				
2.01	Excavate existing fill materials	cu.m.	42,291		
2.02	Supply and deliver to site U-Type steel sheet piles including steel corner piles/ connectors	m.t.	1,640		
2.03	Supply and apply high-build epoxy protective coating for steel sheet piles (Abrasion Resistant Modified Epoxy With ≥85% Volume Solid, Min. Dry Film Thickness = 800 Microns)	sq.m.	12,278		
2.04	Supply and install dowel bars for steel sheet piles	kg.	14,240		
2.05	Handle, pitch and drive U-type sheet piles and corner piles	l.m.	6,038		
2.06	Supply and install steel waling and splice plate for the steel sheet piles	kg.	31,797		
2.07	Supply and install tie-rod including accessories				
	a) 50mm Ø x 20.50m	set	345		
	b) 50mm Ø x 11.00m	set	58		
	c) 50mm Ø x 4.50m	set	2		
2.08	Supply and place gravel bedding	cu.m.	213		
2.09	Supply and place 3,500 psi. concrete for R.C. curb, coping wall, anchor wall, mooring/fender block, mooring bollard foundation, outfall, ramp retaining wall, ramp wing wall, lateral drainage, catch drain manhole and for electrical system	cu.m.	2,672		

Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity

BILL OF QUANTITIES
NEW PORT DEVELOPMENT PROJECT
Port of Catbalogan, Catbalogan, Samar

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
2.10	Supply and install steel reinforcements for R.C. curb, coping wall, anchor wall, mooring/fender block, mooring bollard foundation, outfall, ramp retaining wall, ramp wing wall, lateral drainage, catch drain manhole and for electrical system	kg.	188,049		
2.11	Supply and place 50-100 kg./pc. core rocks	cu.m.	24,950		
2.12	Supply and place 1000 kg./pc. armour rocks (2-layers)	cu.m.	4,419		
2.13	Supply and install geotextile fabric	sq.m.	12,605		
2.14	Supply and place sand and gravel fill	cu.m.	35,903		
2.15	Supply, spread and compact aggregate sub-base course	cu.m.	25,797		
2.16	Supply, spread and compact aggregate base course (200mm thk)	cu.m.	10,768		
2.17	Supply, spread and compact aggregate surface course (300mm thk)	cu.m.	10,908		
2.18	Construct portland cement concrete pavement (300mm thk) including dowel bars and construction joint	sq.m.	17,478		
2.19	Supply and install machine bended 20mmm thick steel ramp protection with welded ends cover and 100mm Ø pouring holes at 50mm interval	set	37		
2.20	Supply and install hot-dip galvanized trench grate cover for lateral drainage including built up frame, dowels and other incidentals	l.m.	498		

Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity

BILL OF QUANTITIES
NEW PORT DEVELOPMENT PROJECT
Port of Catbalogan, Catbalogan, Samar

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
2.21	Supply and install hot-dip galvanized trench grate cover for catch drain manhole including built up frame, dowels and other incidentals	no.	10		
2.22	Supply and install reinforced concrete pipe culvert 900mm dia.	l.m.	708		
2.23	Construct catch drain manhole with concrete cover on 100x100x10mm and 100x75x10mm angle bar frame	no.	24		
2.24	Construct security fence including accessories	l.m.	385		
2.25	Supply and install hot-dipped galvanized angle bar, 100mm x 100mm x 10mm for constrution joints including dowel bars	l.m.	12		
2.26	Supply and deliver to site rubber dock fender (V-type, 500H x 1000L) including accessories	set	5		
2.27	Supply and deliver to site rubber dock fender (V-type, 500H x 1500L) including accessories	set	16		
2.28	Supply and deliver to site rubber dock fender (V-type, 500H x 2500L) including accessories	set	59		
2.29	Install rubber dock fender including accessories	set	80		
2.30	Supply and deliver to site mooring bollard, 35-Ton, Tee-head including accessories	set	35		
2.31	Install mooring bollard including accessories	set	35		
2.32	Supply, deliver and install electrical works for the port lighting system	lot	1		
2.33	Supply and deliver to site 450mm x 450mm PSC piles for floodlight foundation	l.m.	144		

Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity

BILL OF QUANTITIES
NEW PORT DEVELOPMENT PROJECT
Port of Catbalogan, Catbalogan, Samar

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
2.34	Handle, pitch and drive 450mm x 450mm PSC piles for floodlight foundation	l.m.	144		
	TOTAL FOR BILL NO. 2				-

Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity

BILL OF QUANTITIES
NEW PORT DEVELOPMENT PROJECT
Port of Catbalogan, Catbalogan, Samar

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	3 PUMPHOUSE WITH DOMESTIC WATER TANK AND RAINWATER TANK				
3.01	Excavation and backfilling works for building foundations of pumphouse	cu.m.	124		
3.02	Supply and apply soil treatment	sq.m.	32		
3.03	Supply, place and compact gravel bedding	cu.m.	4		
3.04	Supply and place 3,500 psi concrete for building structure	cu.m.	50		
3.05	Supply and install steel reinforcement for building structure				
	a. Grade 40	kg.	3,098		
	b. Grade 60	kg.	6,079		
3.06	Supply, fabricate and install angle bar L-100x100x10, channel bar C-100x50x6 and 25mm dia. G.I. pipe for manhole cover	lot	1		
3.07	Construct 150 mm thick CHB wall including steel reinforcements	sq.m.	30		
3.08	Supply and apply waterproofing for domestic tank and rain water tank	sq.m.	125		
3.09	Supply and place 13mm thk. cement plaster	sq.m.	49		
3.10	Supply and apply elastomeric paint (2 coats) on walls and underslab	sq.m.	106		
3.11	Supply and place epoxy floor coating	sq.m.	17		
3.12	Supply and place non-skid/ rough floor finish	sq.m.	10		

Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity

BILL OF QUANTITIES
NEW PORT DEVELOPMENT PROJECT
Port of Catbalogan, Catbalogan, Samar

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
3.13	Supply and install fabricated manually operated pre-painted galvalume rool-up door	lot	1		
3.14	Supply and install fabricated 1.5 mm thk. Aluminum Framed Doors and Windows including glass and accessories	set	3		
3.15	Supply and install water line pipes and fittings	lot	1		
3.16	Supply, deliver and install constant pressure booster pump	set	2		
3.17	Supply, deliver and install pressure tank	set	1		
3.18	Supply and install electrical materials	lot	1		
	TOTAL FOR BILL NO. 3				-

Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity

BILL OF QUANTITIES
NEW PORT DEVELOPMENT PROJECT
Port of Catbalogan, Catbalogan, Samar

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	4 POWERHOUSE				
4.01	Excavation and backfilling works for building foundations and catch basin of power house	cu.m.	34		
4.02	Subgrade preparation	sq.m.	37		
4.03	Supply and apply soil treatment	sq.m.	37		
4.04	Supply, place and compact gravel bedding	cu.m.	6		
4.05	Supply, spread and compact aggregate sub-base course	cu.m.	30		
4.06	Supply and place 3,500 psi concrete for building structure including elastic sealant and epoxy	cu.m.	22		
4.07	Supply and install steel reinforcement for building structure				
	a. Grade 40	kg.	1,452		
	b. Grade 60	kg.	1,601		
4.08	Construct 3,500 psi concrete slab on grade, step-ups and ramps on-fill including reinforcements	sq.m.	37		
4.09	Construct 150 mm thick CHB wall including steel reinforcements	sq.m.	50		
4.10	Supply and apply waterproofing for domestic tank and rain water tank	sq.m.	106		
4.11	Supply and place 13mm thk. cement plaster	sq.m.	56		
4.12	Supply and apply elastomeric paint (2 coats) on walls and underslab	sq.m.	125		

Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity