SECTION VII

DRAWINGS
(APPROVED PLANS)

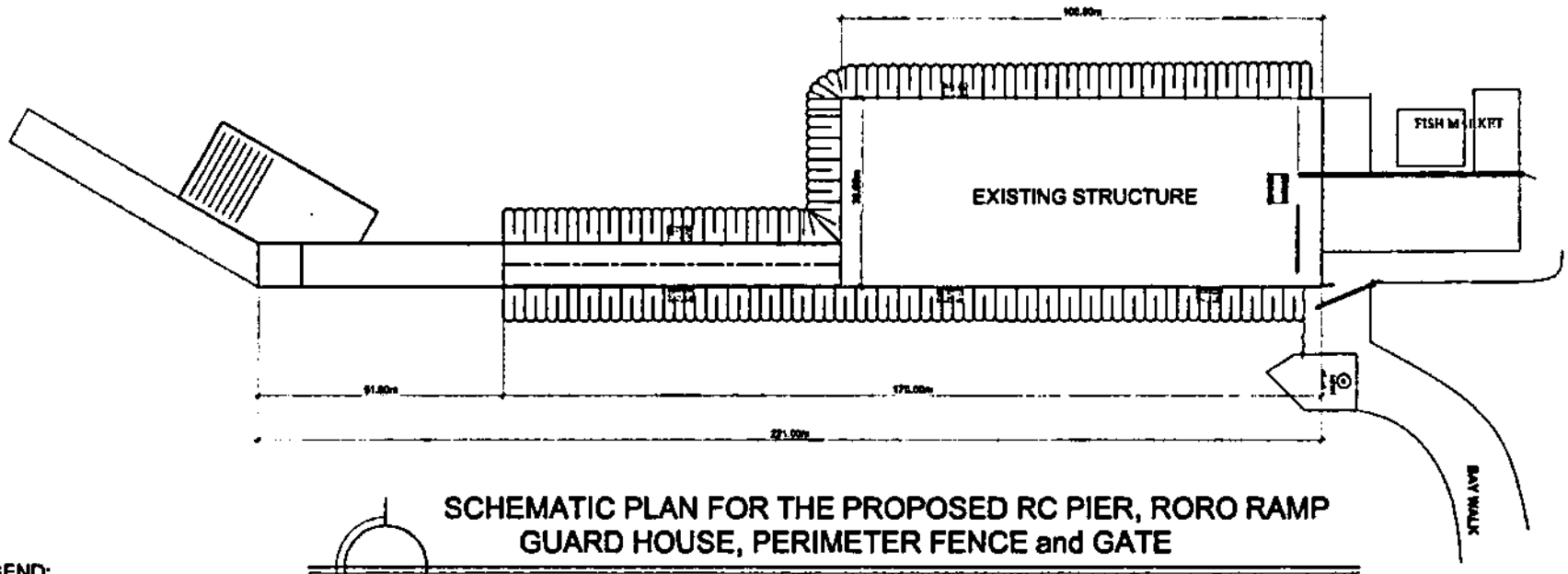
SECTION VII

DRAWINGS AND APPROVED PLANS
(SEE ISSUED APPROVED PLANS)

LIST OF DRAWINGS:

1 of 14	-	Schematic Plan for the Proposed RC Pier, Roro ramp, Guard House, Perimeter Fence and Gate
2 of 14	-	Layout Plan of RC Pier, Plan (Roro-Ramp), Section Elevation (Roro-Ramp), Berth Elevation (Roro-Ramp)
3 of 14	-	Section A-A, B-B,C-C
4 of 14	-	Section D-D, E-E
5 of 14	-	Typical Reinforcement of RC Deck (Roro Ramp)
6 of 14	-	RC Layout Plan
7 of 14	-	RC Curb Detail, Transverse & Longitudinal Section
8 of 14	-	Typical Section of Longitudinal Beam, Typical Section of Transverse Beam, Detail of Curtain Wall, Typical Section of Transverse and Longitudinal Beam, Section Detail (RC Pier)
9 of 14	-	Side Elevation, Elevation, Plan, Detail of Construction Joint-1&2
10 of 14	-	Typical Detail of Pile Cap for Vertical Piles (Roro Ramp, Proposed Wharf), Typical Detail of Pile Cap for Batter Piles (Roro Ramp, Proposed RC Pier)
11 of 14	-	Materials Required for One RC Pile, Designated Length of Piles
12 of 14	-	Longitudinal Elevation, Pile Tip Detail, Splice Diagram of Longitudinal Bars
13 of 14	-	Lifting Points for Two Point Pick-up & Three Point Pick-up
14 of 14	-	Detail of Rubber Dock Fender (V-500Hx1500L), Detail of 35 Tons Mooring Bollard (Tee Head)
A1 of 8	-	Perspective Drawing, Ground Floor Plan
A2 of 8	-	Elevations
A3 of 8	-	Sections thru X-X,Y-Y
A4 of 8	-	Schedule of Doors & Windows
A5 of 8	-	Perspective Drawing, Front Elevation
A6 of 8	-	Gate 1 Details
A7 of 8	-	Gate 2 Details
A8 of 8	-	Perspective Drawing, Fence Detail, Front Perimeter Fence
E1 of 2	-	Ceiling Light Outlet
E2 of 2	-	Schedule of Loads
P1 of 3	-	Sanitary Line & Waterline Layout
P2 of 3	-	Septic Vault Detail
P3 of 3	-	Grease Trap Detail

S1 of 9	-	Front Perimeter Fence Layout Plan, C1F1 Details
S2 of 9	-	Column and Footing Layout, Wall Footing Layout
S3 of 9	-	Wall Footing Layout, Column Footing Layout
S4 of 9	-	Roof Beam Layout, Roof Layout, False Gutter Detail
S5 of 9	-	Roof Framing Detail, Roof Beam Detail
S6 of 9	-	Typical Roof Framing Detail
S7 of 9	-	Reflected Ceiling Plan, Ceiling Connection Detail
S8 of 9	-	Side Walk Canopy Details
S9 of 9	-	Concrete Pedestal w/ Steel Plate Detail



SCHEMATIC PLAN FOR THE PROPOSED RC PIER, RORO RAMP GUARD HOUSE, PERIMETER FENCE and GATE

SCALE : 1: 100

LEGEND:

- EXISTING STRUCTURE
- PROPOSED RORO RAMP
- PROPOSED RC PIER
- PROPOSED GUARD HOUSE
- PROPOSED PERIMETER FENCE
- PROPOSED GATE

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY: RICHEL R. ARCEO, ACTING EAD MANAGER

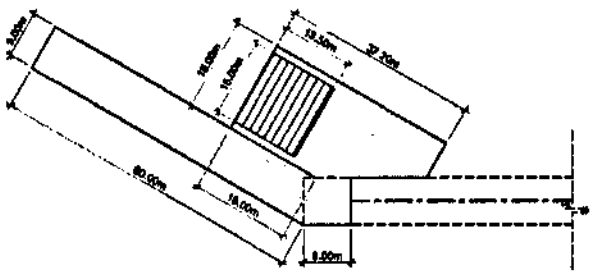
CHECKED and REVIEWED BY: ROMEL G. LAGMAY, ACTING PORT MANAGER

RECOMMENDING APPROVAL: REYNAND C. NARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER

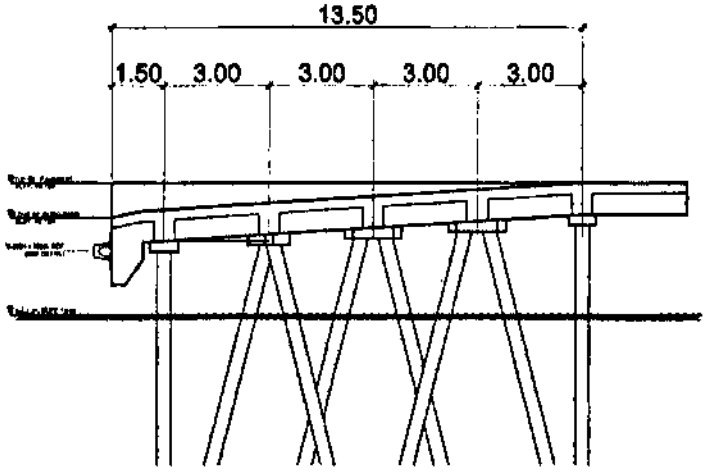
APPROVED BY: JAMES J. SANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING

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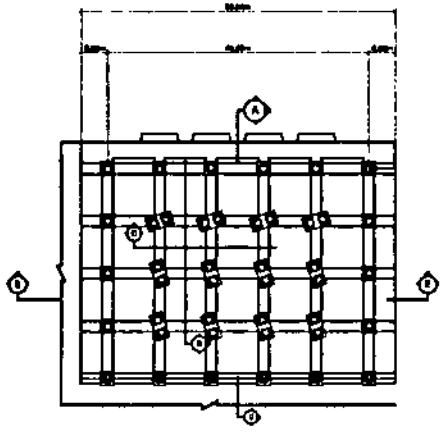
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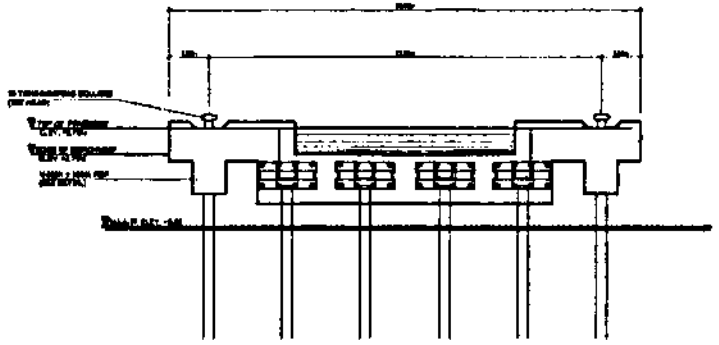
LAYOUT PLAN OF RC PIER
SCALE : 1:100M



SECTION ELEVATION (RORO-RAMP)
SCALE: 1:15M



PLAN (RORO-RAMP)
SCALE : 1:30M



BERTH ELEVATION (RORO-RAMP)
SCALE: 1:20M

PHILIPPINE CONTAINER AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

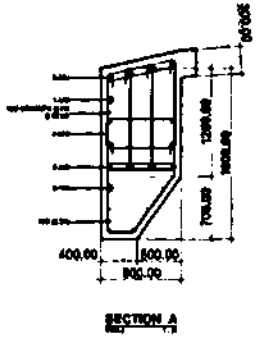
PREPARED BY:
RICHEL R. ARCEO
ACTING E&D MANAGER

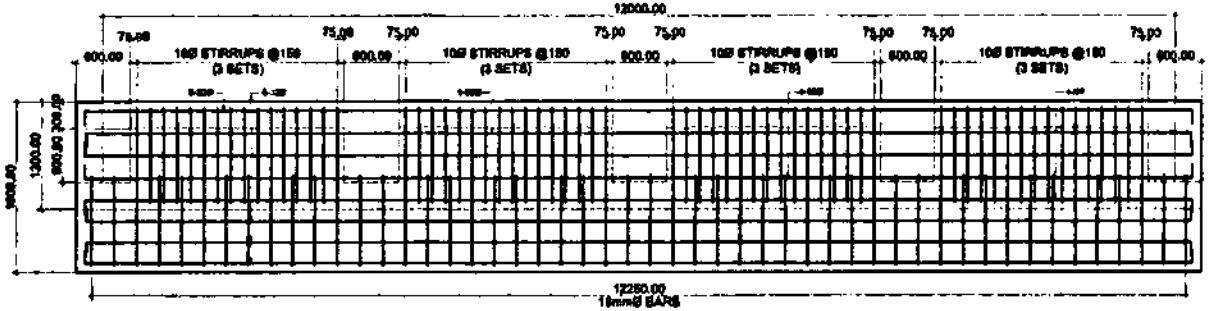
CHECKED and REVIEWED BY:
RODEL G. LAGMAY
ACTING PORT MANAGER

RECOMMENDING APPROVAL:
REYNAND C. PARAFINA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

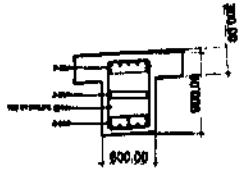
APPROVED BY
JAMES J. GANTALAD
ASSISTANT GENERAL MANAGER FOR ENGINEERING

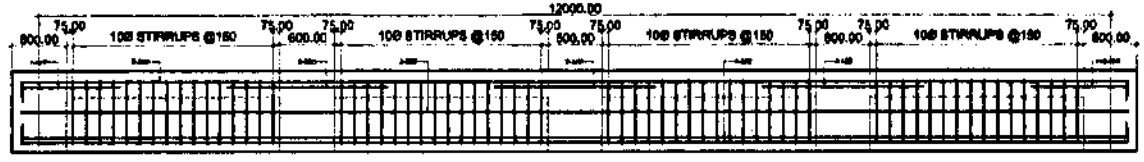
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PAGE NUMBER: 2 | 14



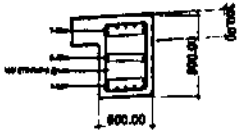


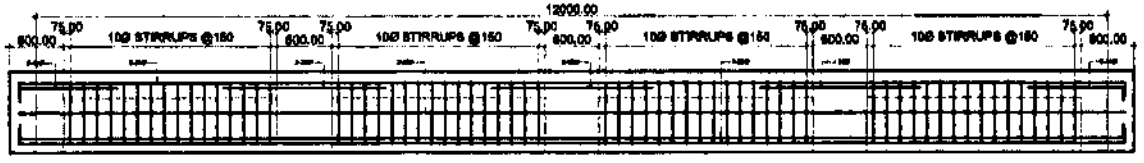
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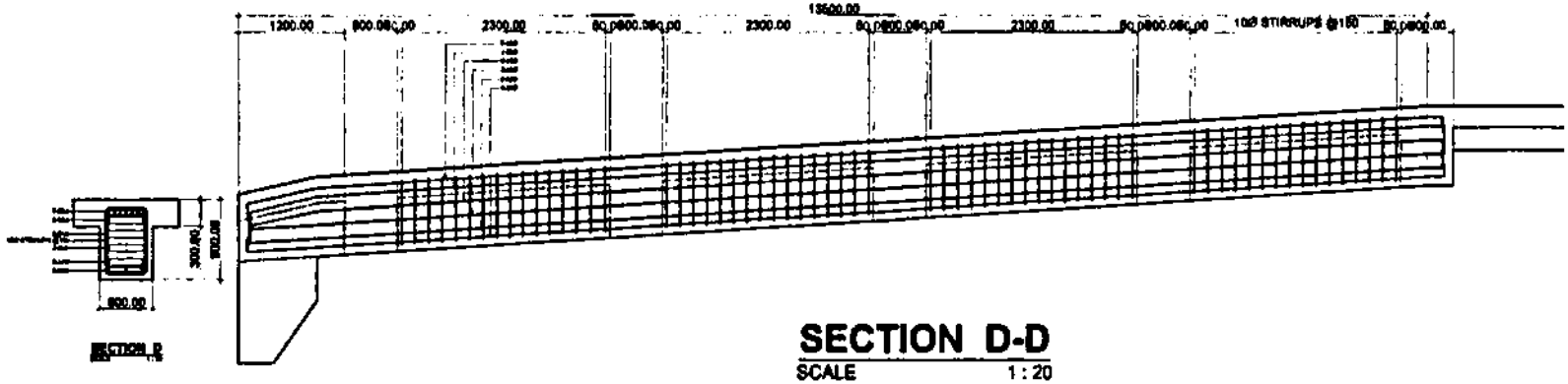
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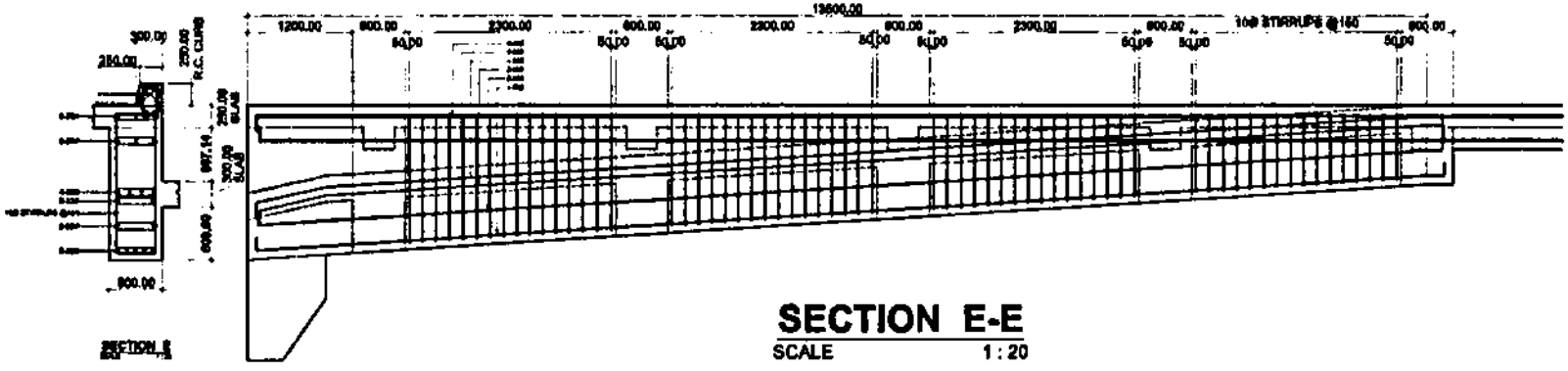


SECTION C-C
SCALE 1 : 50

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINIMAYLAN, HINIMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING EED MANAGER	CHECKED and REVIEWED BY: ROMEL G. LAGMAY, ACTING PORT MANAGER	RECOMMENDING APPROVAL: REYNAND C. PALMAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: ATTY. [illegible] GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: 3 PAGE NUMBER: 3 of 14



SECTION D-D
SCALE 1 : 20



SECTION E-E
SCALE 1 : 20

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY: RICHEL R. ARCEO, ACTING E&C MANAGER

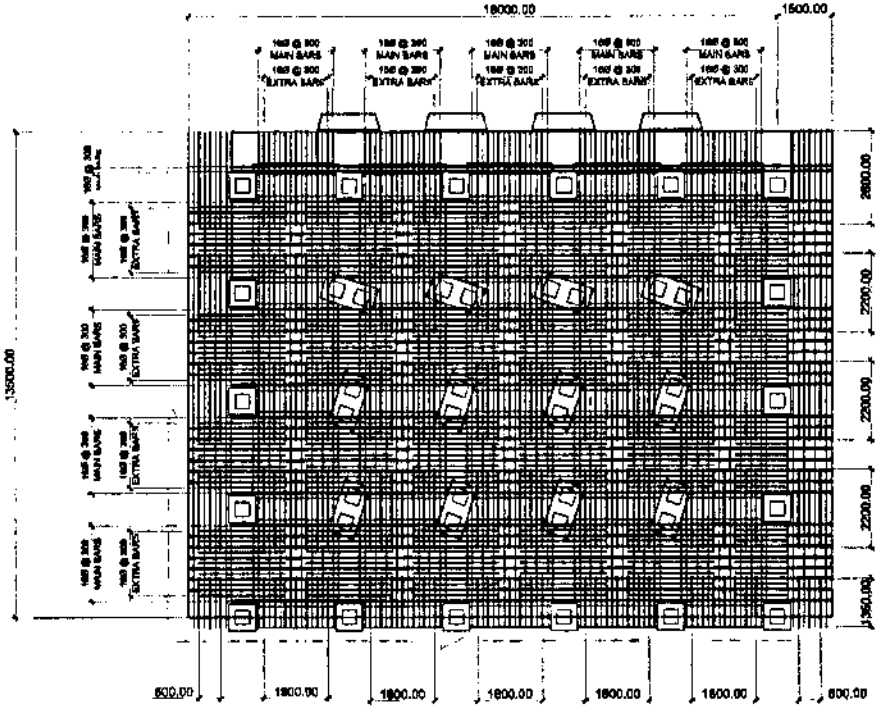
CHECKED and REVIEWED BY: RODEL G. HIGMAY, ACTING PORT MANAGER

RECOMMENDING APPROVAL: REYNANO C. PARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER

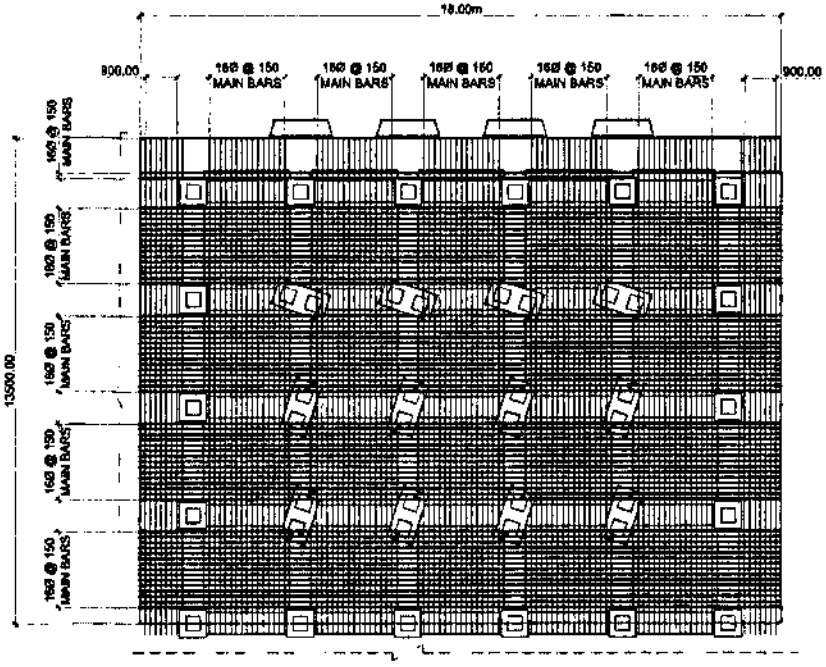
APPROVED BY: JAMES J. GUNTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: 4

PAGE NUMBER: 4 | 14



TOP BARS

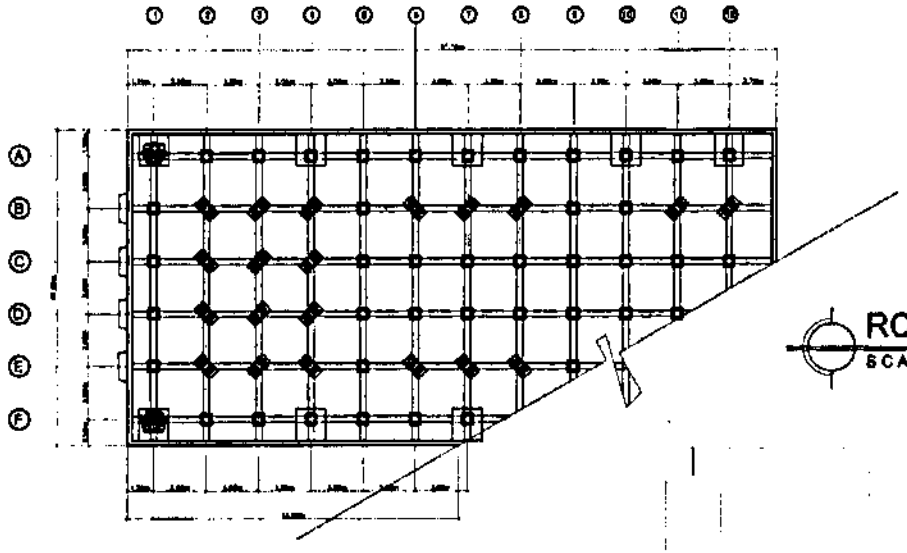


BOTTOM BARS

TYPICAL REINFORCEMENT OF R.C. DECK (RORO-RAMP)

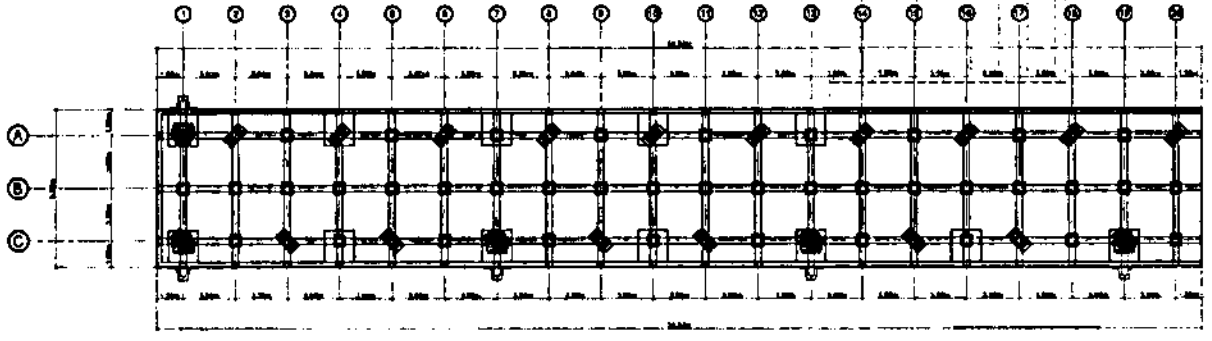
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PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING EBD MANAGER	CHECKED and REVIEWED BY: RODEL G. LAGMAY, ACTING PORT MANAGER	RECOMMENDING APPROVAL: REYNAND C. PARAFINA, PORT PLANNING and DEVELOPMENT DEPARTMENT MANAGER	APPROVED BY: JAIME S. J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: 5 PAGE NUMBER: 5 / 14



RC LAYOUT PLAN

SCALE : 1:30M



REINFORCED CONCRETE PILE (450mm x 450mm)

PILE	LENGTH	REQUIRED BEARING POWER (M.T.)
VERTICAL	18000	67
COUPLED BATTER	18000	62

NOTES:

FOR PURPOSES OF COMPUTING THE BEARING POWER DURING PILE DRIVING, ONLY THE RESULTS USING THE MINIMUM CAPACITY OF PILE DRIVING EQUIPMENT INDICATED IN THE BID DOCUMENTS WILL BE ALLOWED AS BASIS IN COMPARING WITH THE REQUIRED BEARING POWER IN THE ABOVE TABLE.

USING OF PILE DRIVING EQUIPMENTS OTHER THAN THAT INDICATED IN THE BID DOCUMENTS MAYBE ALLOWED BUT THE RESULTS OF BEARING POWER COMPUTED THROUGH THE SAID EQUIPMENT WILL NOT BE USED AS BASIS OF COMPARISON AGAINST THE INDICATED BEARING POWER ON THE ABOVE TABLE.

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY:
RICHEL R. ARCEO
ACTING EID MANAGER

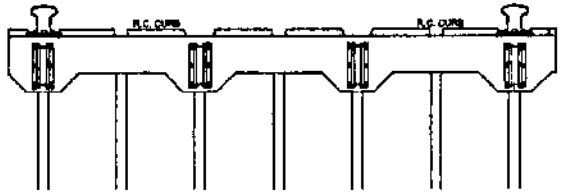
CHECKED and REVIEWED BY:
RODEL G. LAGMAY
ACTING UNIT MANAGER

RECOMMENDING APPROVAL:
REYNAND C. PANALTNA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY:
JAMES J. SANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

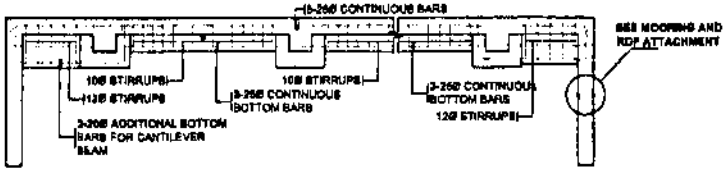
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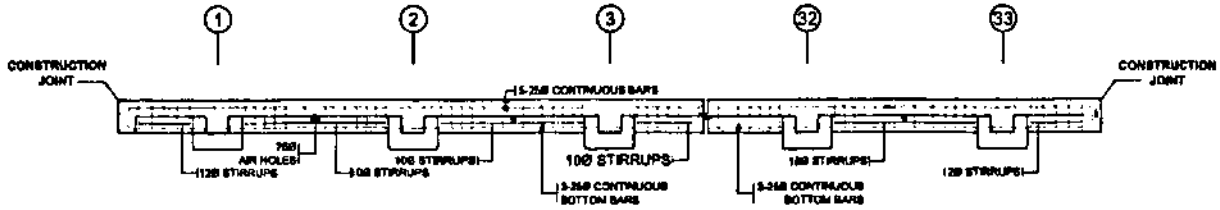
R.C. CURB DETAIL

SCALE NTS



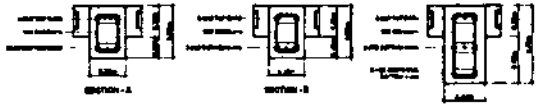
TRANSVERSE SECTION

SCALE 1 : 40

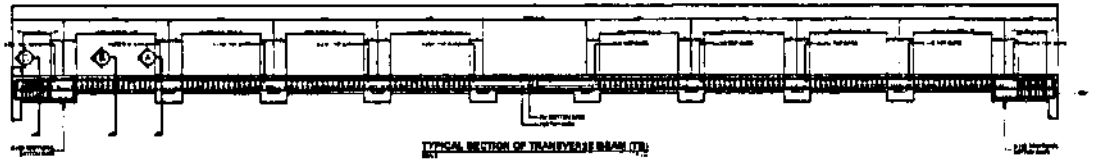


LONGITUDINAL SECTION

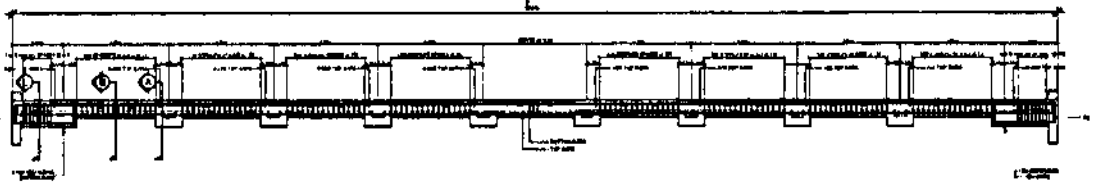
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TYPICAL SECTION OF LONGITUDINAL BEAM (LB)



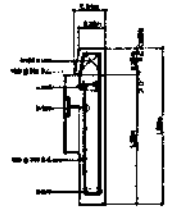
TYPICAL SECTION OF TRANSVERSE BEAM (TB)



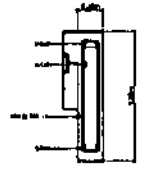
TYPICAL SECTION OF LONGITUDINAL BEAM (LB)



TYPICAL SECTION OF TRANSVERSE BEAM (TB)

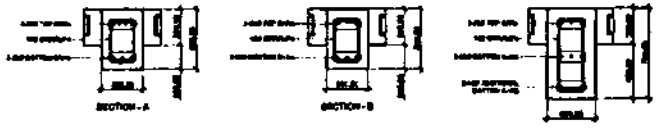


DETAIL OF CURTAIN WALL(CW1)

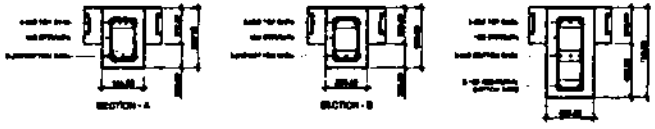


DETAIL OF CURTAIN WALL(CW2)

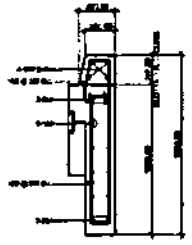
PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HAMANYLAN, HAMANYLAN CITY, NEGROS O. C. (M.Y.C.B.)	PREPARED BY: RICHEL R. ARCEO, ACTING E&D MANAGER	CHECKED and REVIEWED BY: RODEL B. KAKIMAY, ING PORT MANAGER	RECOMMENDING APPROVAL: REYNAND C. KARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: 7 Plate Number: 7 / 14



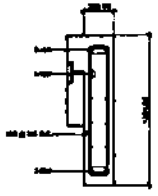
TYPICAL SECTION OF LONGITUDINAL BEAM (LB)
SCALE 1 : 15



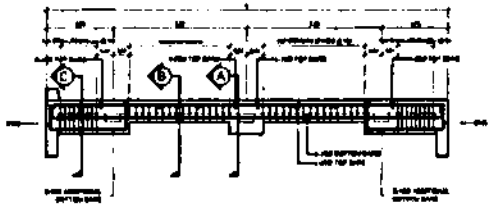
TYPICAL SECTION OF TRANSVERSE BEAM (TB)
SCALE 1 : 15



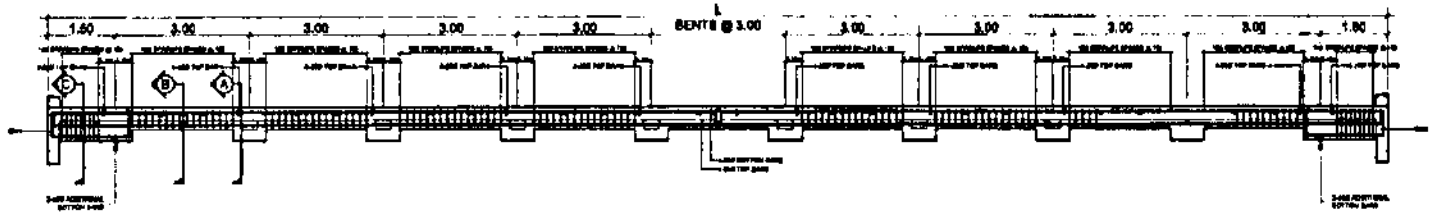
DETAIL OF CURTAIN WALL(CW1)
SCALE 1 : 15



DETAIL OF CURTAIN WALL(CW2)
SCALE 1 : 15



TYPICAL SECTION OF TRANSVERSE BEAM (TB)
SCALE 1 : 40



TYPICAL SECTION OF LONGITUDINAL BEAM (LB)
SCALE 1 : 40

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

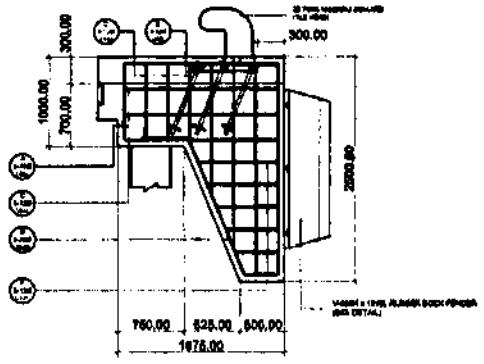
PREPARED BY:
RICHEL R. ARCEO
ACTING BSD MANAGER

CHECKED and REVIEWED BY:
ROMEL C. LAGMAY
ACTING PORT MANAGER

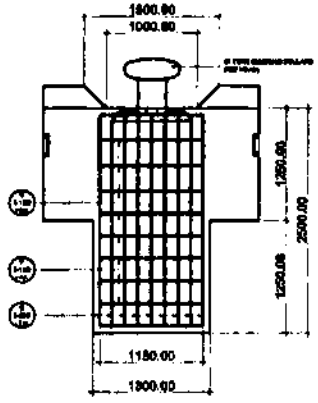
RECOMMENDING APPROVAL:
REYNANDO C. PARAFINA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY:
JAIME B J. GANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

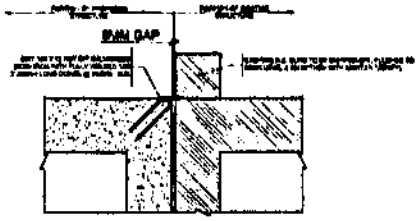
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PAGE NUMBER: 8 | 14



SIDE ELEVATION

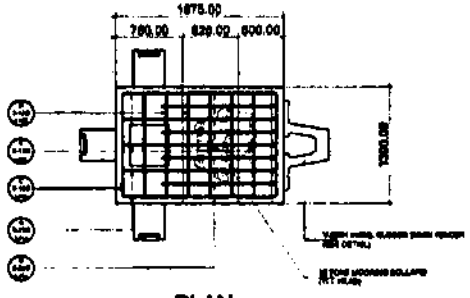


ELEVATION

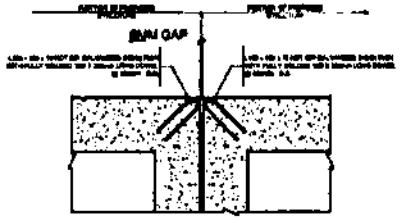


DETAIL OF CONSTRUCTION JOINT-1

SCALE 1 : 10



PLAN



DETAIL OF CONSTRUCTION JOINT-2

SCALE 1 : 10

TYPICAL DETAIL OF MOORING TEE HEAD & RUBBER DOCK FENDER BLOCK
(PROPOSED RC PIER)

SCALE 1 : 20

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINIMAYLAN, HINIMAYLAN CITY, NEGROS OCCIDENTAL

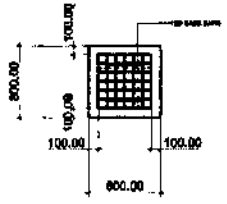
PREPARED BY:
RICHEL R. ARCEO
ACTING BID MANAGER

CHECKED and REVIEWED BY:
RODEL G. LAGMAY
ACTING PORT MANAGER

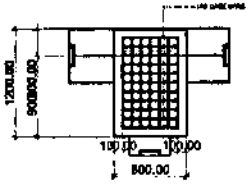
RECOMMENDING APPROVAL:
REYNALDO C. PARAFINA
PORT PLANNING AND DEVELOPMENT DEPARTMENT MANAGER

APPROVED BY:
JAMES J. BANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: 9
PAGE NUMBER: 9 | 14



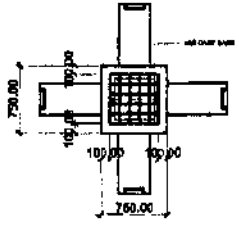
PLAN



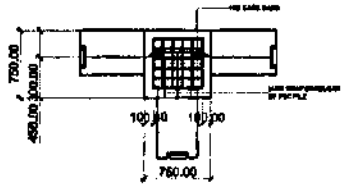
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TYPICAL DETAIL OF PILE CAP FOR VERTICAL PILES (RORO-RAMP)

SCALE 1 : 20



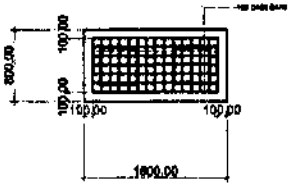
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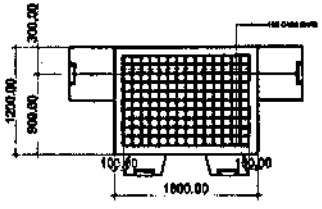
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TYPICAL DETAIL OF PILE CAP FOR VERTICAL PILES (PROPOSED WHARF)

SCALE 1 : 20



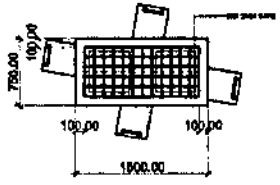
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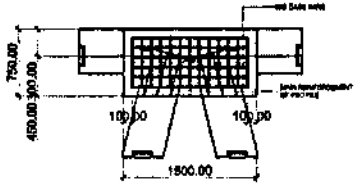
SECTION

TYPICAL DETAIL OF PILE CAP FOR BATTER PILES (RORO-RAMP)

SCALE 1 : 20



PLAN



SECTION

TYPICAL DETAIL OF PILE CAP FOR BATTER PILES (PROPOSED RC PIER)

SCALE 1 : 20

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY:
RICHEL R. ARCEO
ACTING EBD MANAGER

CHECKED and REVIEWED BY:
ROCEL C. LAGMAY
ACTING PORT MANAGER

RECOMMENDING APPROVAL:
REYNANO C. PARAFINA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY:
JAMES J. GANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: 10

PAGE NUMBER: 10 | 14

MATERIALS REQUIRED FOR ONE R.C. PILE

ITEMS	15000	16000	17000	18000	19000	20000	21000	22000	23000	24000	25000	26000	27000	28000	29000	30000
25mmØ BAR PV1	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190	8 at 12190
25mmØ BAR PV2	8 at 4800	8 at 5650	8 at 6500	8 at 7500	8 at 8350	8 at 9200	8 at 10600	8 at 11650	8 at 8100	8 at 9140	8 at 9140	8 at 9140	8 at 12190	8 at 12190	8 at 12190	8 at 12190
20mmØ BAR PVe	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760	4 at 760
10mmØ SPIRAL PS	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960	2 at 3960
10mmØ HOOPS PHA	67 at 1520	72 at 1520	77 at 1520	82 at 1520	87 at 1520	92 at 1520	97 at 1520	102 at 1520	107 at 1520	112 at 1520	117 at 1520	122 at 1520	127 at 1520	132 at 1520	137 at 1520	142 at 1520
10mmØ HOOPS PHB1	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520	1 at 1520
10mmØ HOOPS PHB2	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370	1 at 1370
10mmØ HOOPS PHa	67 at 1220	72 at 1220	77 at 1220	82 at 1220	87 at 1220	92 at 1220	97 at 1220	102 at 1220	107 at 1220	112 at 1220	117 at 1220	122 at 1220	127 at 1220	132 at 1220	137 at 1220	142 at 1220
10mmØ HOOPS PHb	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070	2 at 1070
100x100x13x200 AB	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200	1 at 200
No.2 Gauge Wire (L.m.)	130000	138500	147000	155500	164000	172500	181000	189500	198000	206500	215000	223500	232000	240500	249000	257400
Class A CONC. (Cu.m.)	2.94	3.15	3.36	3.57	3.78	3.99	4.20	4.41	4.62	4.83	5.04	5.25	5.46	5.67	5.88	6.06
							20mmØ BAR PV3		8 at 5700	8 at 5700	8 at 5750	8 at 7650	8 at 5700	8 at 6600	8 at 7620	8 at 5700

DESIGNATED LENGTH OF PILES

L	15000	16000	17000	18000	19000	20000	21000	22000
N	68	73	78	83	88	93	98	103
A	13350	14350	15350	16350	17350	18350	19350	20350
L	23000	24000	25000	26000	27000	28000	29000	30000
N	108	113	118	123	128	133	138	143
A	21350	22350	23350	24350	25350	26350	27350	28350

NOTES:

THE 1,000mm EXTRA LENGTH OF THE PILE BUTT HAS LEFT UNCAST BY THE CONTRACTOR HOWEVER A SPECIAL FOLLOWER DULY APPROVED BY THE SUPERVISING ENGINEER WAS USED TO PROTRUDE REINFORCING STEEL AND THE REMAINING PILE BUTT WAS PROVIDED FURTHER WITH 10mmØ REINFORCING BARS.

WHERE NO SPECIAL FOLLOWER WAS USED, THE 100mm EXTRA LENGTH OF THE PILE BUTT WAS CAST AND REINFORCED WITH 10mmØ SPIRAL. ALL EXPENSES WAS SHOULDERED BY THE CONTRACTOR.

AFTER THE REQUIRED PENETRATION AND BEARING POWER OF PILE WAS ATTAINED AND BEFORE CASTING DECK MONOLITHIC WITH PILE HEAD, ALL CONCRETE IN THE PILE BUTT WAS COMPLETELY DEMOLISHED.

SPIRAL, NO.12 WIRE AND CONCRETE IN THE 100mm SPIRAL LENGTH OF THE PILE BUTT ARE NOT INCLUDED IN THE LIST OF MATERIALS EXCEPT VERTICAL BAR REINFORCEMENTS.

COMPRESSIVE STRENGTH OF CONCRETE IS 41.36 MPa (f'c = 6,000 psi).

ALL DIMENSIONS ARE IN MILLIMETER.

PHILIPPINE PORTS AUTHORITY

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LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

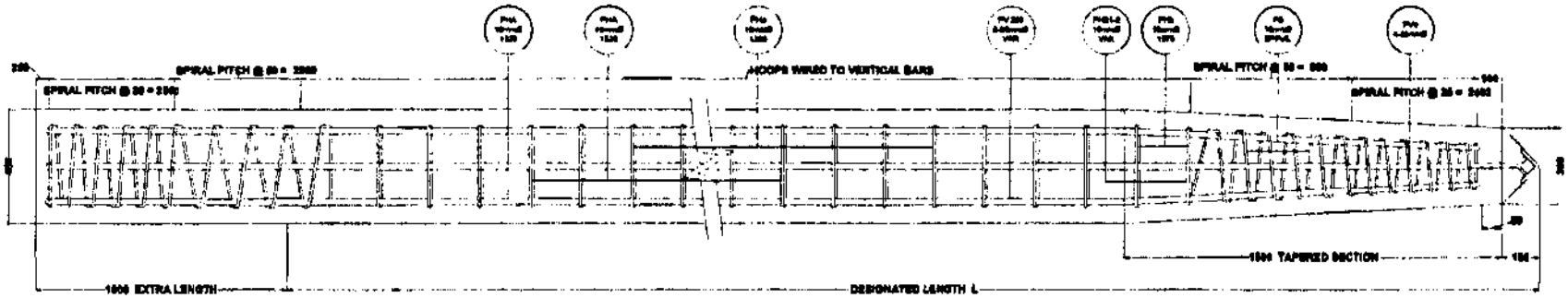
PREPARED BY:
RICHEL R. ARCEO
ACTING EBD MANAGER

CHECKED and REVIEWED BY:
RODEL B. LAGMAY
ACTING PORT MANAGER

RECOMMENDING APPROVAL:
REYNANDO C. MARAFINA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

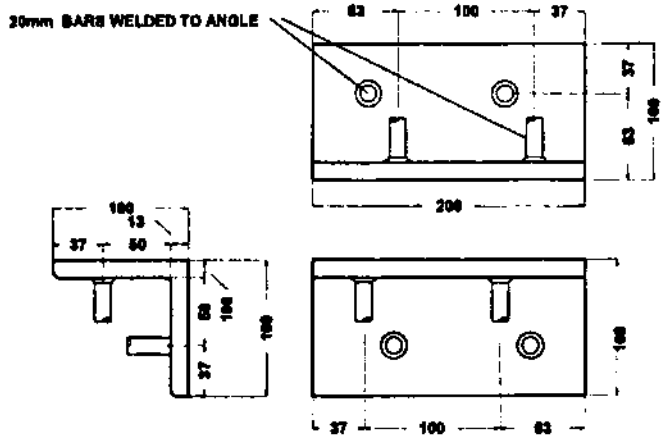
APPROVED BY:
JAMES J. SANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: 11
PAGE NUMBER: 11 | 14



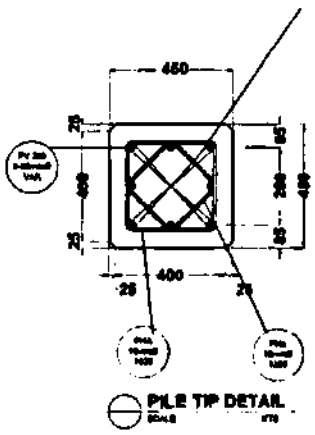
LONGITUDINAL ELEVATION

SCALE NTS

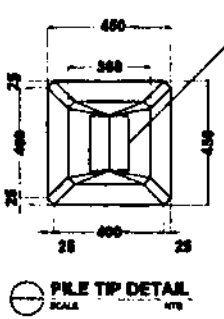


PILE TIP DETAIL

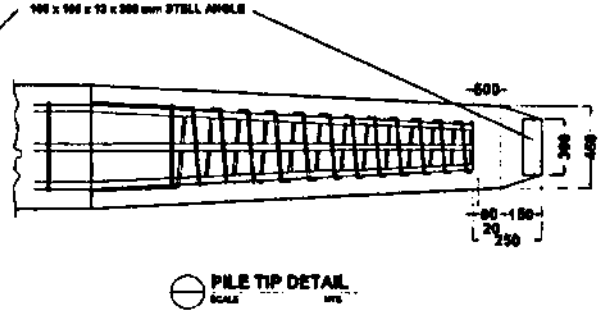
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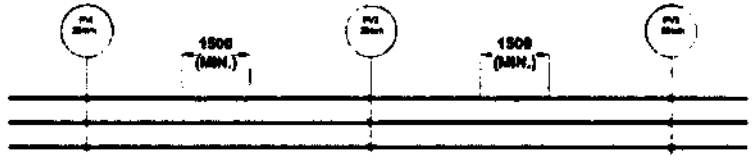
PILE TIP DETAIL



PILE TIP DETAIL

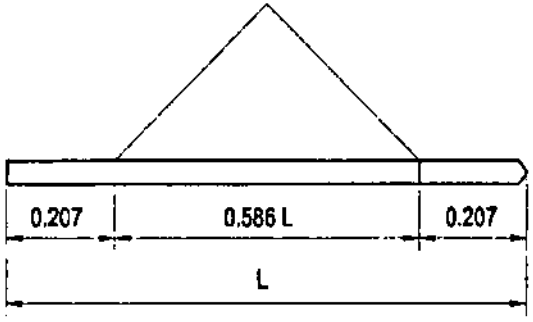


PILE TIP DETAIL



SPLICE DIAGRAM OF LONGITUDINAL BARS

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, MISAMIS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING EBD MANAGER	CHECKED and REVIEWED BY: ROGELIO LAGMAY, ACTING PORT MANAGER	RECOMMENDING APPROVAL: REYNANDO C. PARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: 12 PAGE NUMBER: 12 | 14

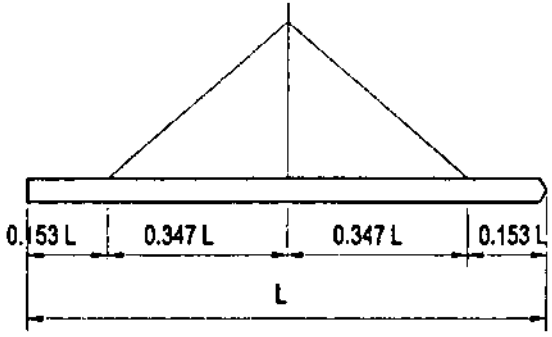


LIFTING POINTS FOR TWO POINT PICK-UP

NOTE:

TWO POINT PICK-UP METHOD OF LIFTING PILES SHALL BE:

- USED FOR THE 12000 - 15000mm LENGTH OF R.C. PILES (450 X 450mm)



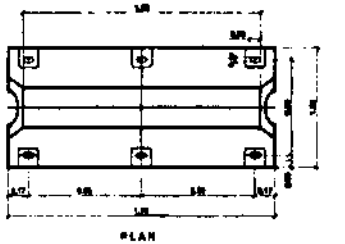
LIFTING POINTS FOR THREE POINT PICK-UP

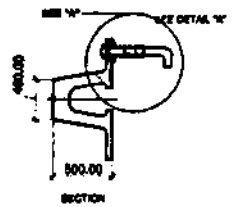
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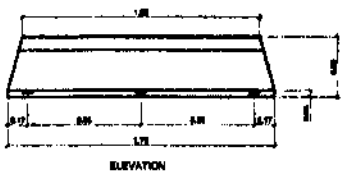
THREE POINT PICK-UP METHOD OF LIFTING PILES SHALL BE:

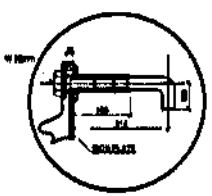
- USED FOR THE 16000 - 23000mm LENGTH OF R.C. PILES (450 X 450mm)

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING EBD MANAGER	CHECKED and REVIEWED BY: RODOLFO G. AGMAY, ACTING PORT MANAGER	RECOMMENDING APPROVAL: REYNAND C. PARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: 13 PAGE NUMBER: 13 | 14



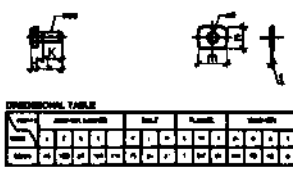










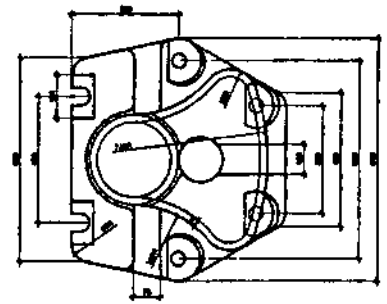


PERFORMANCE CHARACTERISTIC

DEFLECTION	45%	

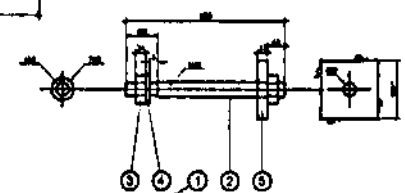
DETAIL OF RUBBER DOCK FENDER (V-500Hx1500L)

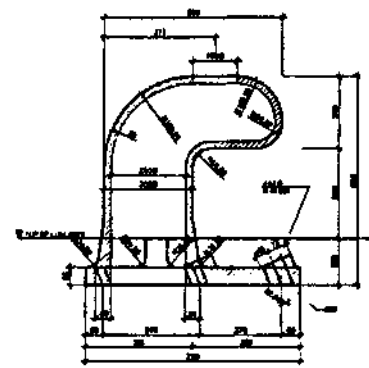
SCALE 1 : 10

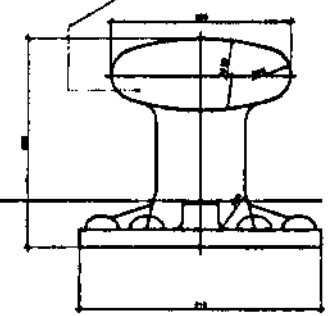


MATERIALS AND WEIGHT

NO.	DESCRIPTION	MATERIAL SPECIFICATION	UNIT WEIGHT (kg/m)	QTY	WEIGHT PER PC. (kg)	TOTAL WEIGHT (kg)
1	BODY					
2						
3						
4						
5						



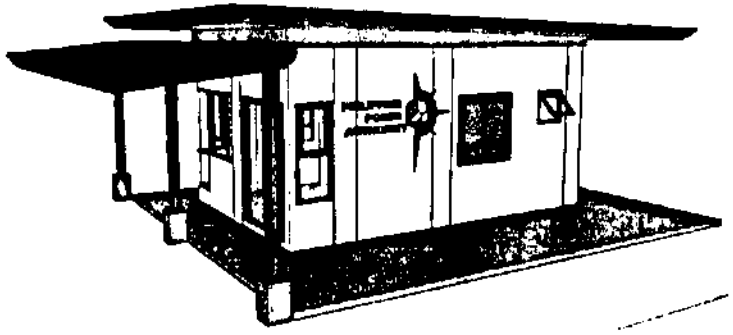




DETAIL OF 35 TONS MOORING BOLLARD (TEE HEAD)

SCALE 1:20

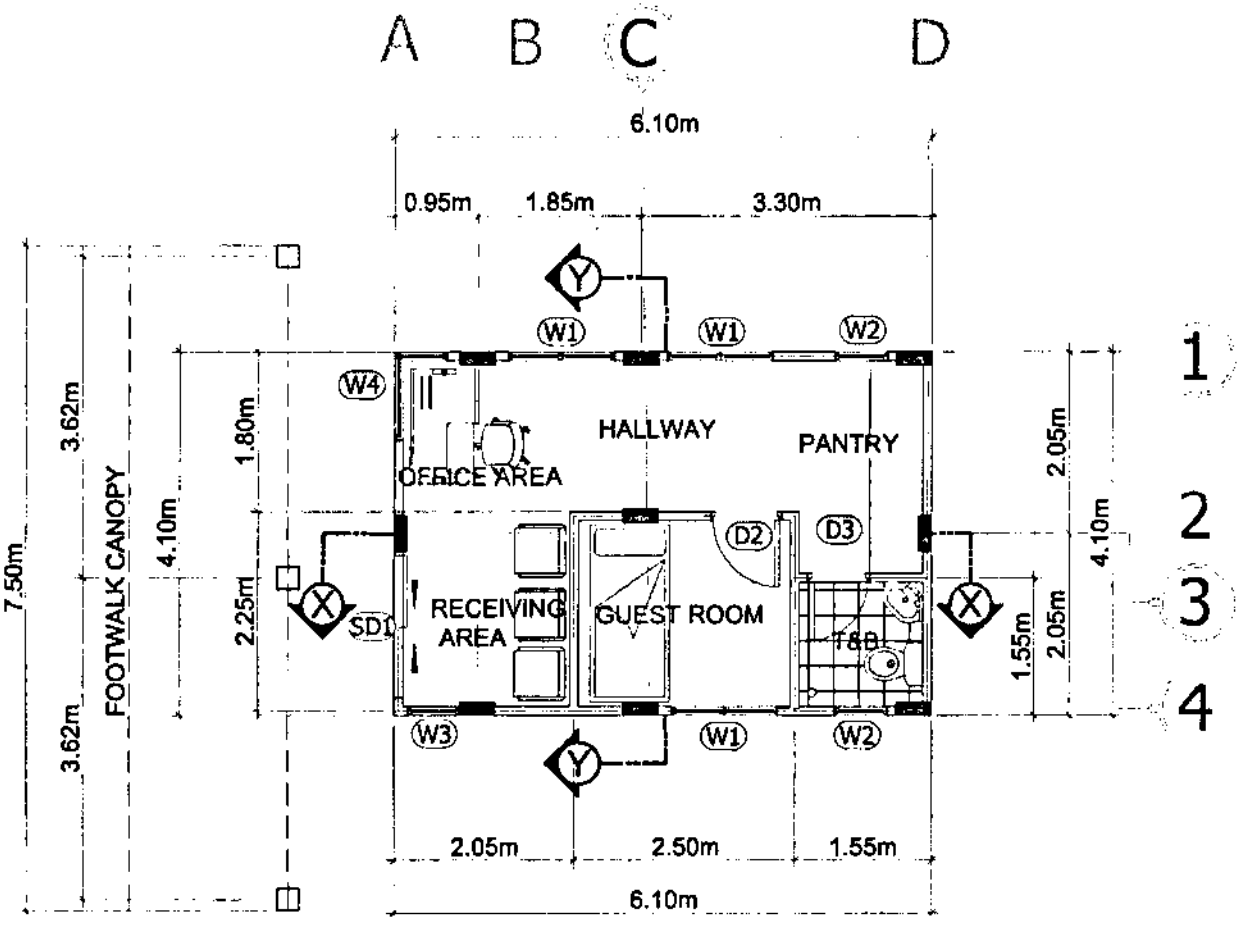
PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING EDD MANAGER	CHECKED and REVIEWED BY: ADOLF G. CAGMAY, ACTING PORT MANAGER	RECOMMENDING APPROVAL: REYNAND C. PARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAIME E. J. SANTIAGO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: 14 PAGE NUMBER: 14 | 14



PERSPECTIVE DRAWING

A 01

NOT DRAWN TO SCALE

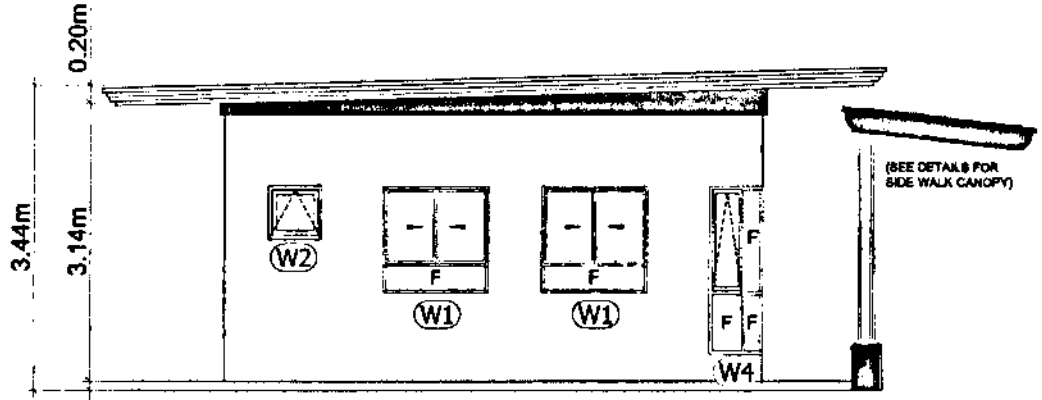


GROUND FLOOR PLAN

A 01

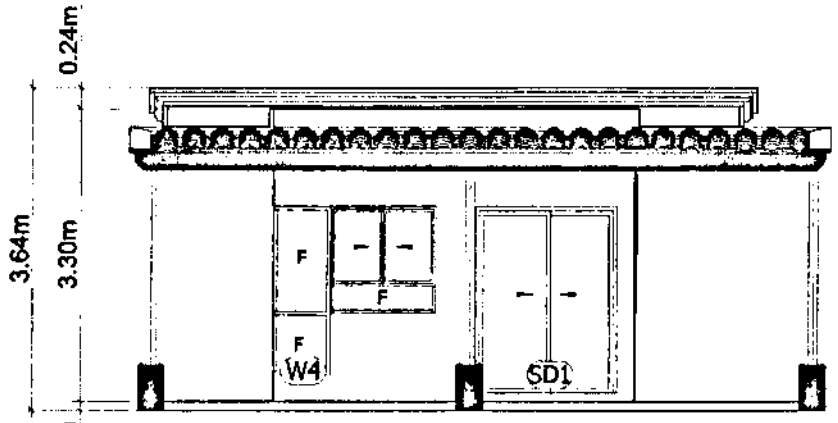
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PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING EBD MANAGER	CHECKED and REVIEWED BY: RODELL G. LAGMAY, ACTING PMO MANAGER	RECOMMENDING APPROVAL: REYNALD C. PAALFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: A PAGE NUMBER: 1 | 8



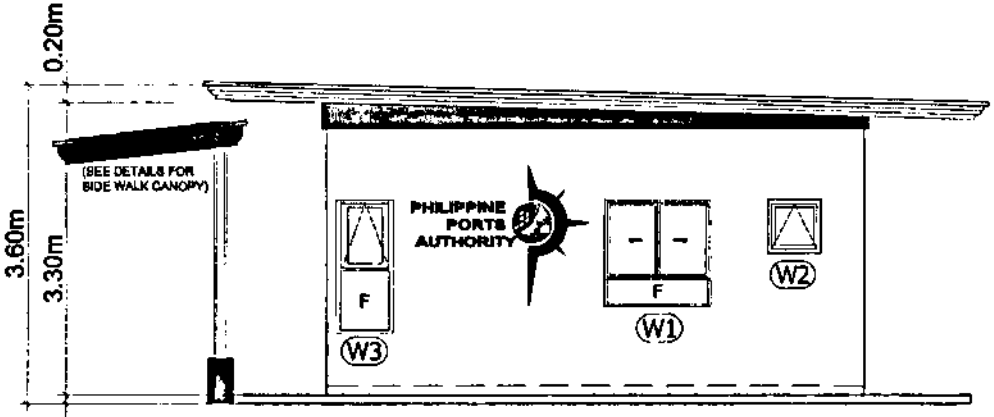
REAR ELEVATION

A 04 SCALE 1: 100



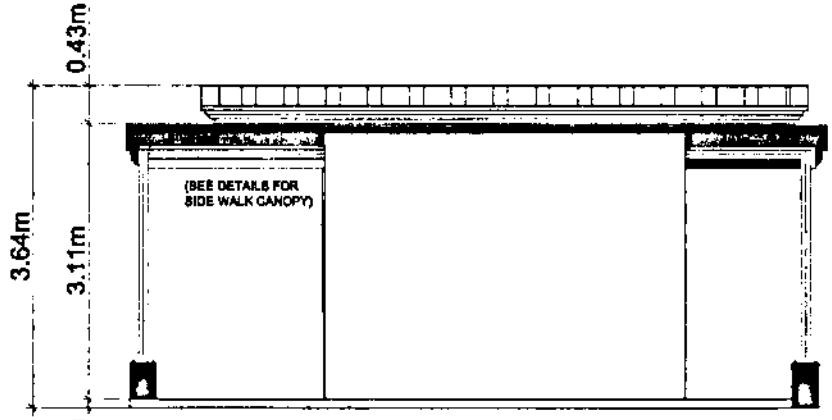
LEFT ELEVATION

A 05 SCALE 1: 100



FRONT ELEVATION

A 02 SCALE 1: 100



RIGHT ELEVATION

A 03 SCALE 1: 100

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY: RICHEL R. ARCEO, ACTING EED MANAGER

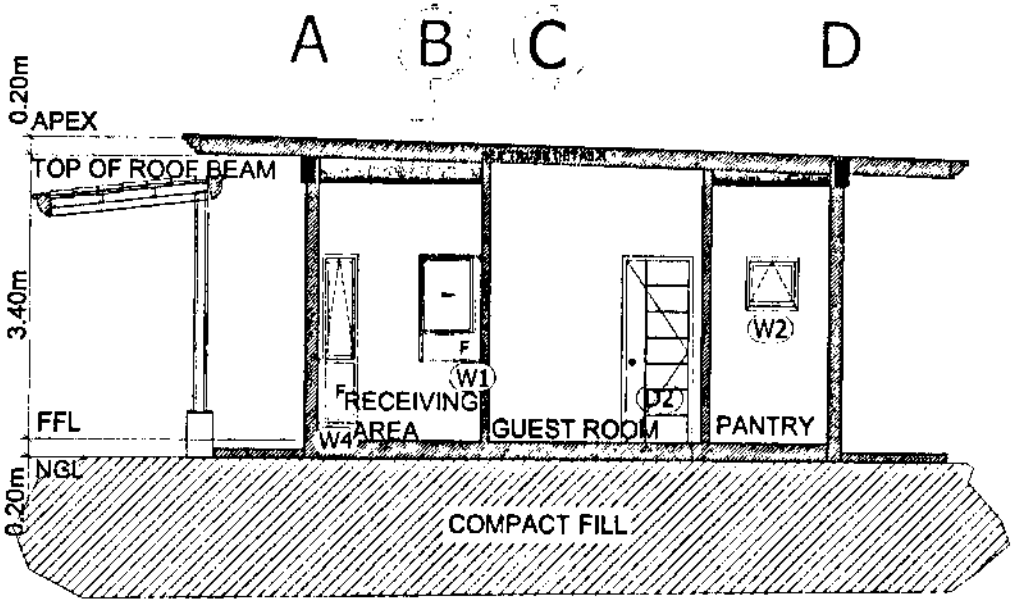
CHECKED and REVIEWED BY: RODY L. GAKIMAY, ACTING PORT MANAGER

RECOMMENDING APPROVAL: REYNAND C. PARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: A

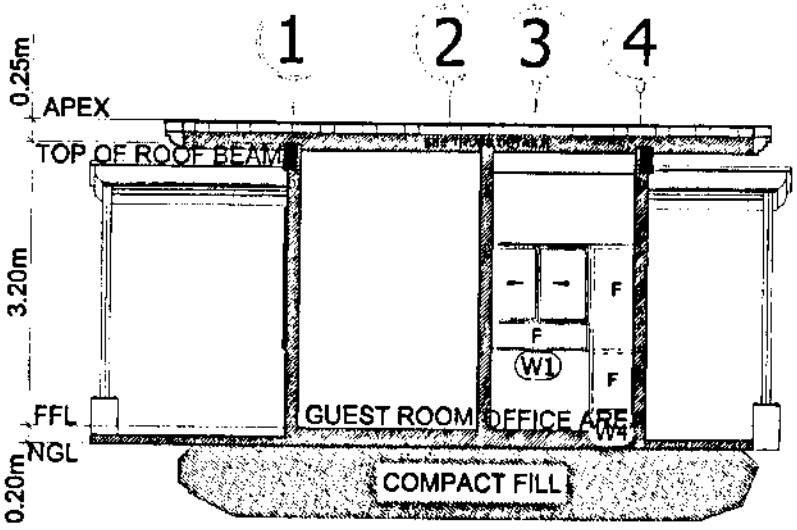
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SECTION THRU X-X

A 06

SCALE 1: 100



SECTION THRU Y-Y

A 07

SCALE 1: 100

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF MINAMAYLAN, MINAMAYLAN CITY, MISOR OCCIDENTAL

PREPARED BY:
RICHEL R. ARCEO
ACTING EBD MANAGER

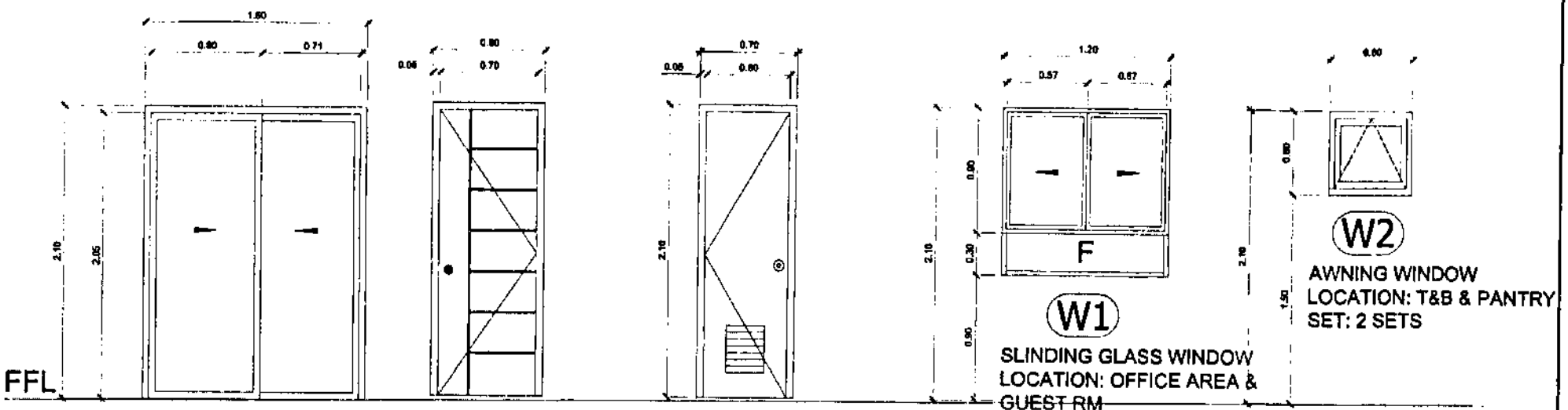
CHECKED and REVIEWED BY:
RODEL G. LAGMAY
ACTING PORT MANAGER

RECOMMENDING APPROVAL:
REYNANO C. PARAFINA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY:
JAIME S J. GANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: A

PAGE NUMBER: 3 | 8



SD1

SLIDING GLASS DOOR
LOCATION: ENTRANCE
SET: 1 SET

D2

PANEL DOOR
LOCATION: GUEST ROOM
SET: 1 SET

D3

PVC DOOR
LOCATION: T&B
SET: 1 SET

W1

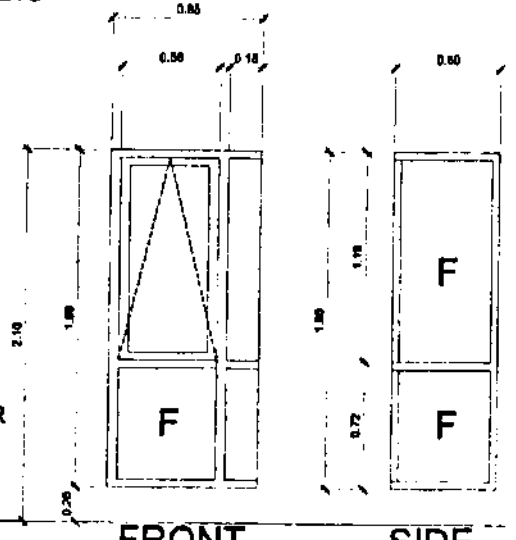
SLINDING GLASS WINDOW
LOCATION: OFFICE AREA & GUEST RM
SET: 3 SETS

W2

AWNING WINDOW
LOCATION: T&B & PANTRY
SET: 2 SETS

W3

AWNING GLASS CORNER WINDOW
LOCATION: ENTRANCE
SET: 1 SET



SCHED. DOORS & WINDOWS

A 08

SCALE 1: 50

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE
LOCATION: PORT OF HAMAMAYAN, HAMAMAYAN CITY, NEGROS OCCIDENTAL

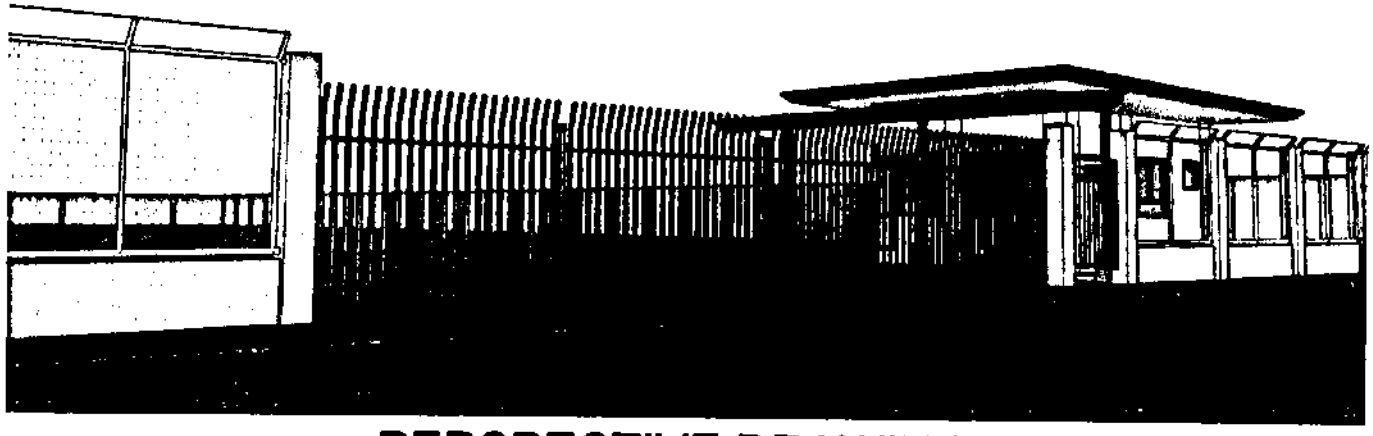
PREPARED BY:
RICHEL R. ARCEO
ACTING ESD MANAGER

CHECKED and REVIEWED BY:
RODEL G. LAGMAY
ACTING PORT MANAGER

RECOMMENDING APPROVAL:
REYNANDO C. PARAGINA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY:
JAMES J. GANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

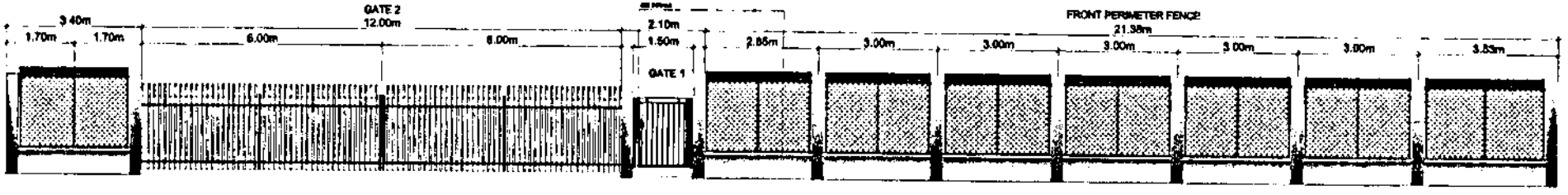
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PAGE NUMBER: 4 | 8



PERSPECTIVE DRAWING

A/09

NOT DRAWN TO SCALE



FRONT ELEVATION

A/10

SCALE 1: 200

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY:

RICHEL R ARCEO
ACTING E&O MANAGER

CHECKED and REVIEWED BY:

RODEL B LAGMAY
ACTING PORT MANAGER

RECOMMENDING APPROVAL:

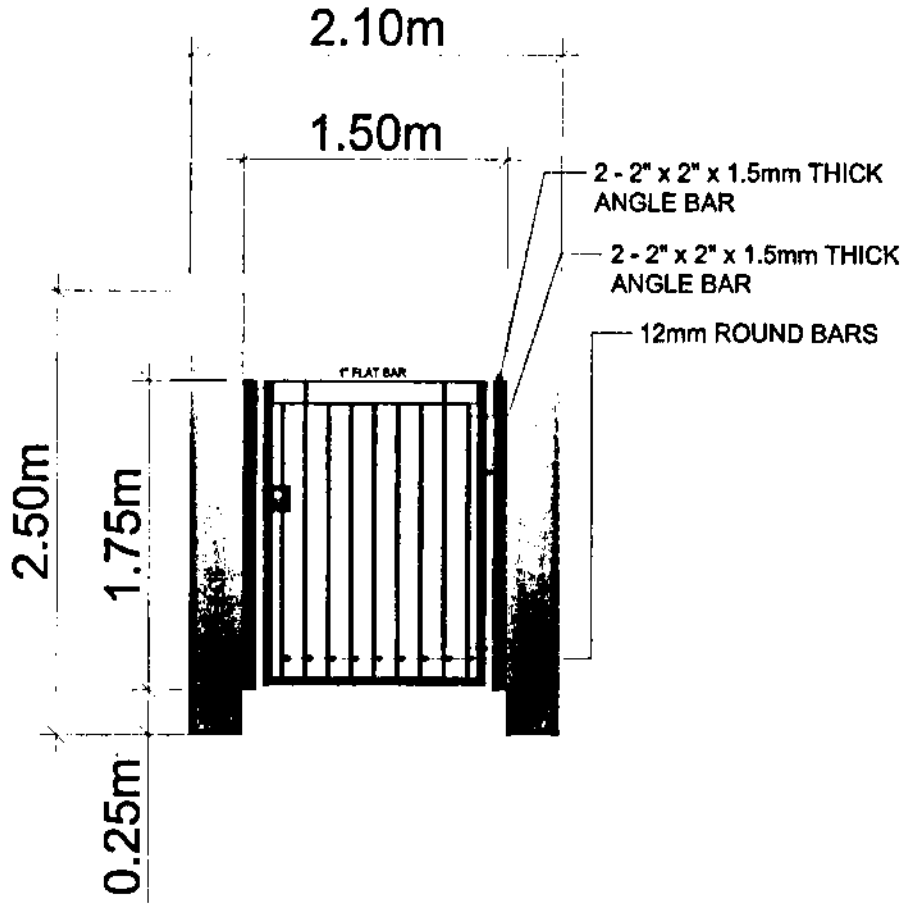
REYNANDO C. PARAGINA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY:

JAMES J. SANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

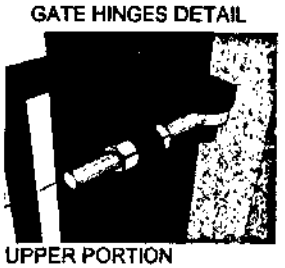
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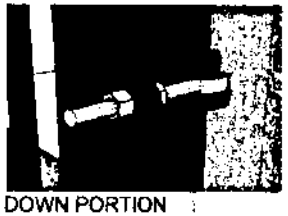


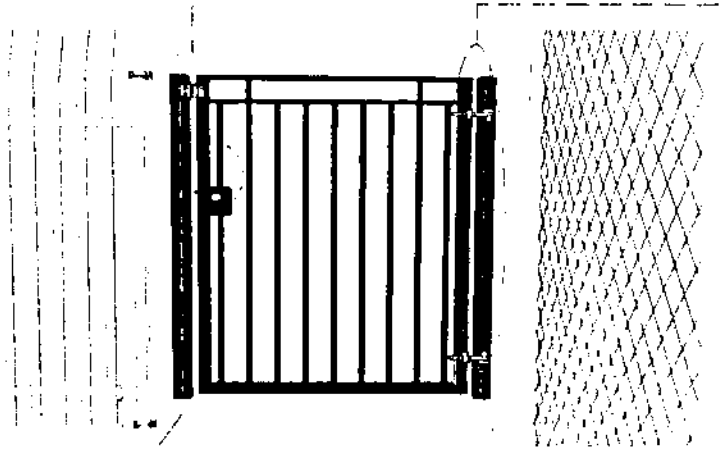
GATE 1 DETAILS

A/11 SCALE 1: 50









GATE 1 HINGES DETAILS

NOT DRAWN TO SCALE

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY: RICHEL R. ARCEO, ACTING ESD MANAGER

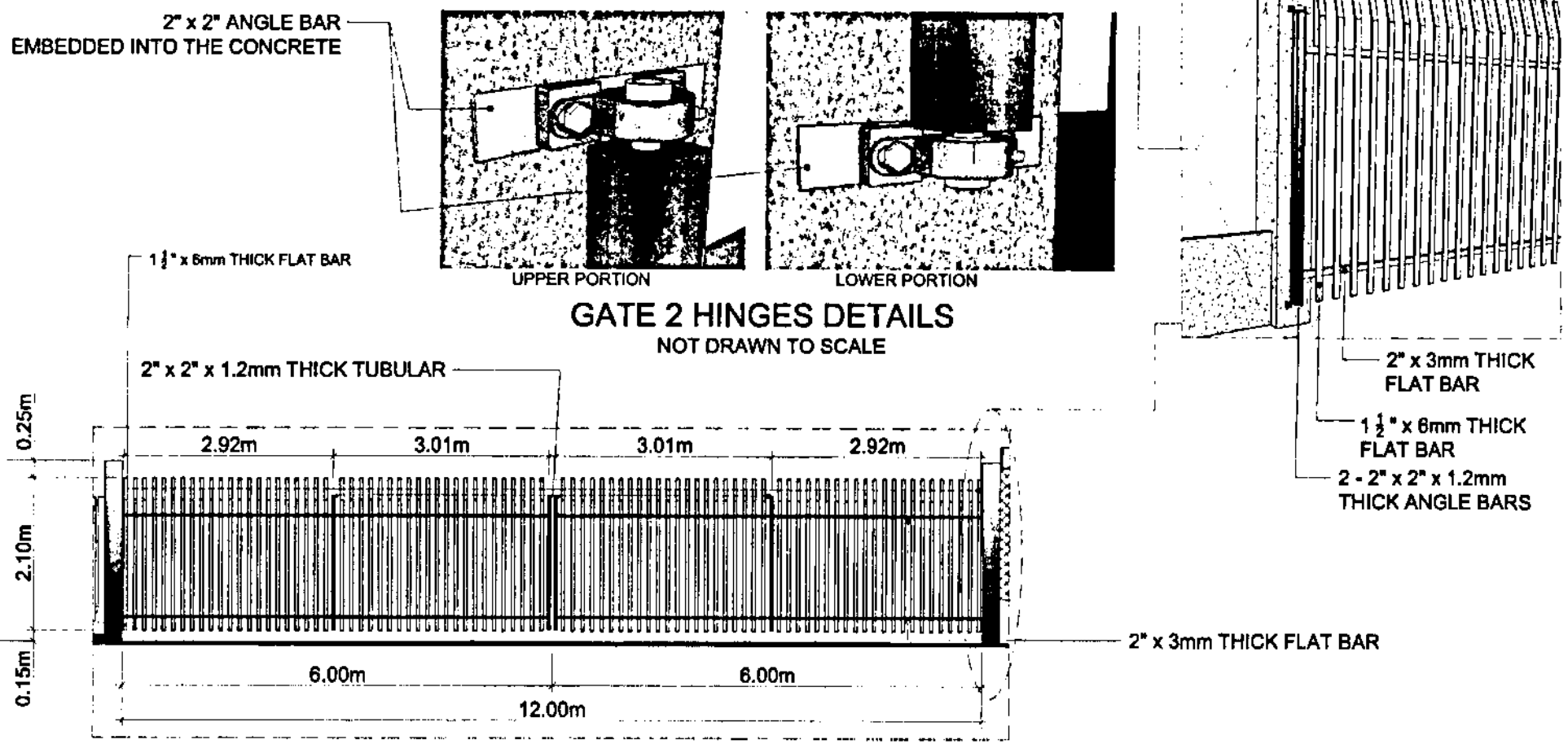
CHECKED and REVIEWED BY: RODEL G. LAGMAY, ACTING PORT MANAGER

RECOMMENDING APPROVAL: REYNAND C. PARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY: JAMES J. GANDALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: A

PAGE NUMBER: 6 | 8



GATE 2 HINGES DETAILS

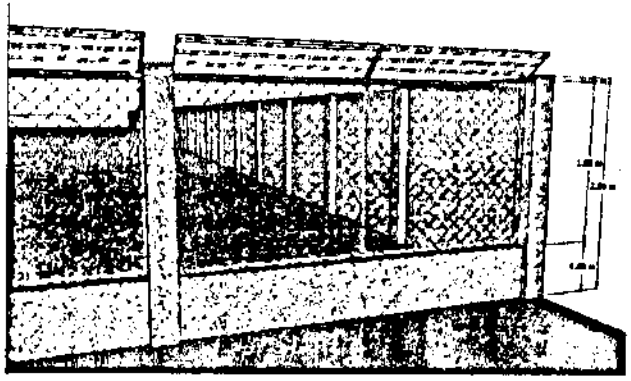
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GATE 2 DETAILS

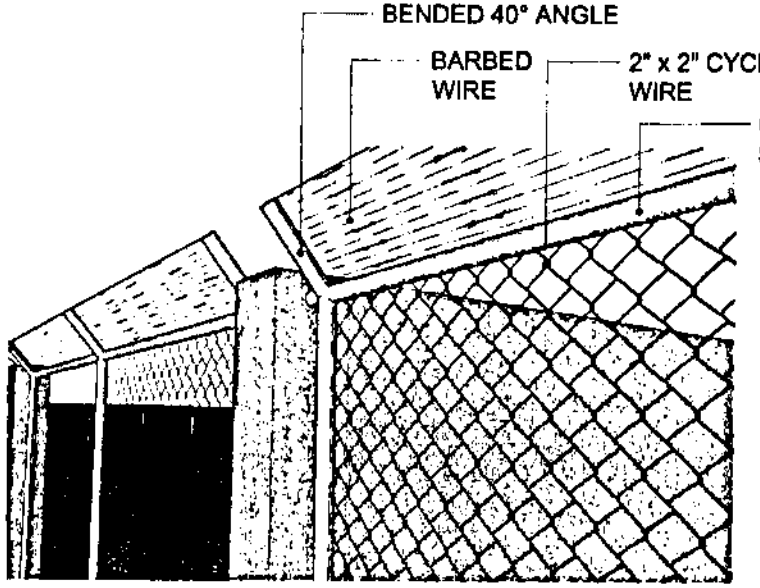
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SCALE 1: 100

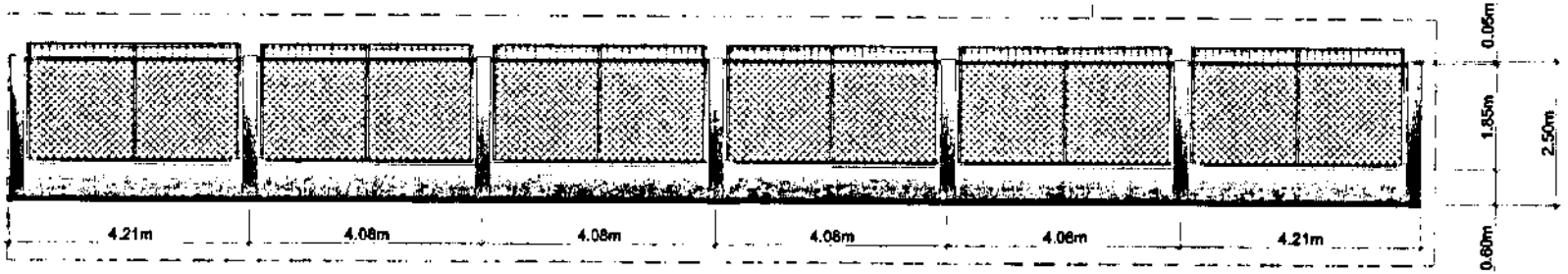
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PERSPECTIVE DRAWING
NOT DRAWN TO SCALE

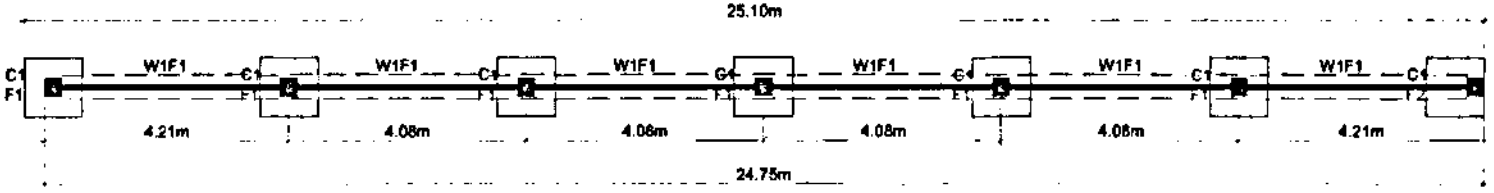


FENCE DETAIL
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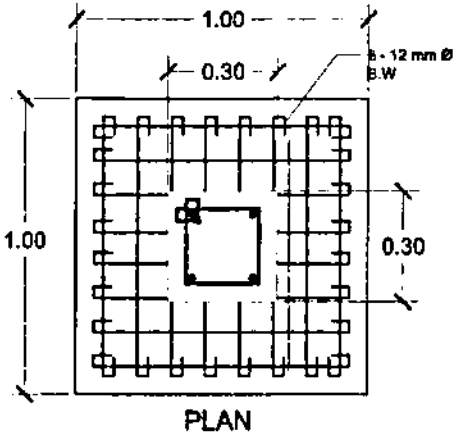
FRONT PERIMETER FENCE
A/13
SCALE 1: 150

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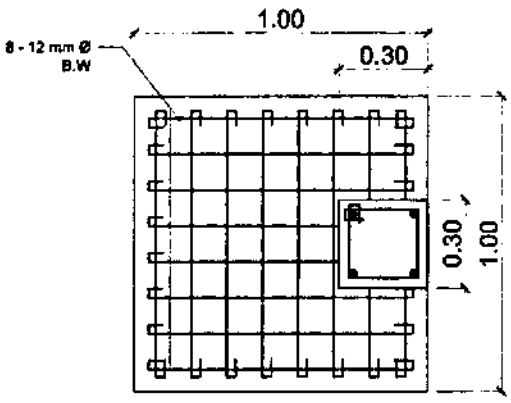


FRONT PERIMETER FENCE LAYOUT PLAN

S 01 SCALE 1: 150

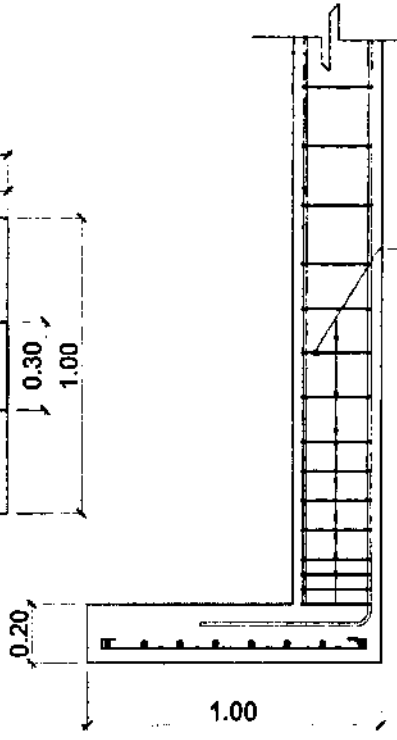


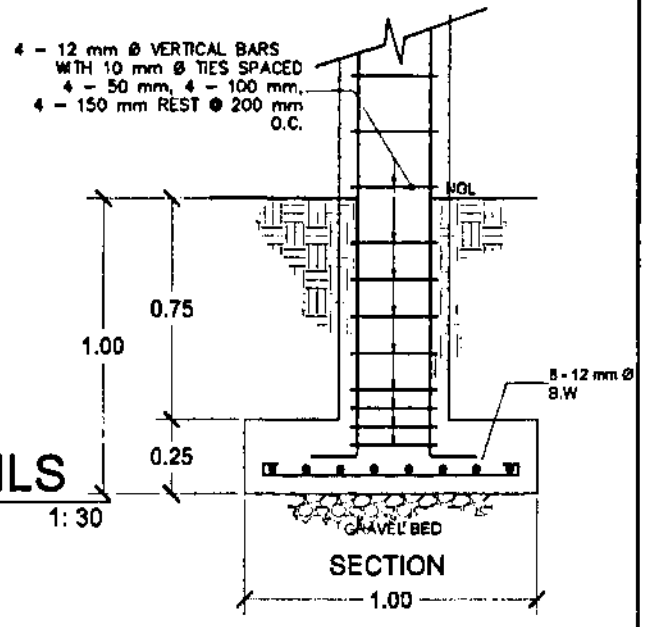
PLAN



C1F1 DETAILS

S 02 SCALE 1: 30



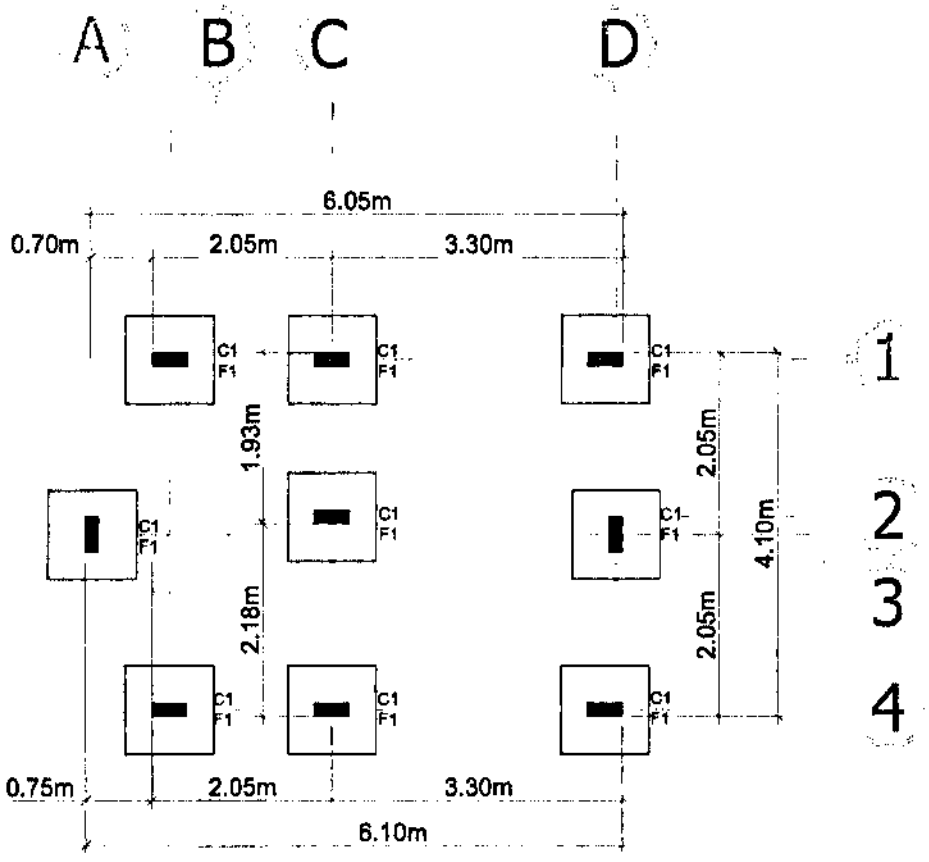


C1F1 DETAILS

S 03 SCALE 1: 30

SECTION

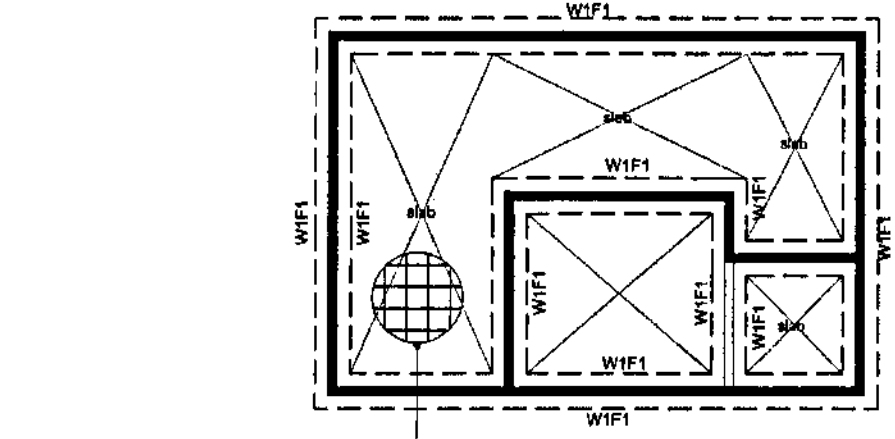
PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING ESD MANAGER	CHECKED and REVIEWED BY: ROGER G. LAGMAY, ACTING PORT MANAGER	RECOMMENDING APPROVAL: REYNALDO C. TRAFINA, PORT PLANNING and DEVELOPMENT DEPARTMENT MANAGER	APPROVED BY: JAIME S. J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: S PAGE NUMBER: 1 9



COLUMN and FOOTING LAYOUT

S 01

SCALE 1:100

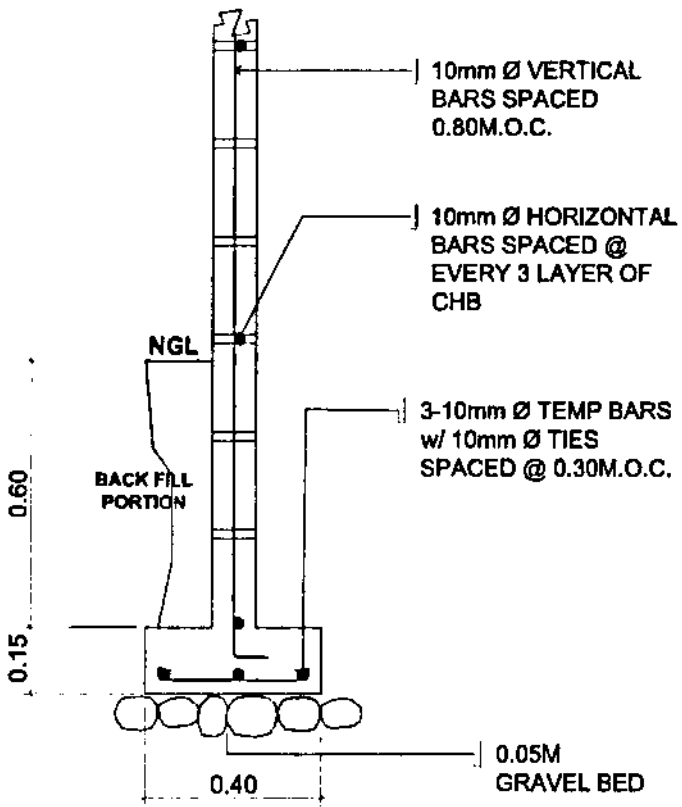


WALL FOOTING LAYOUT

S 02

SCALE 1:100

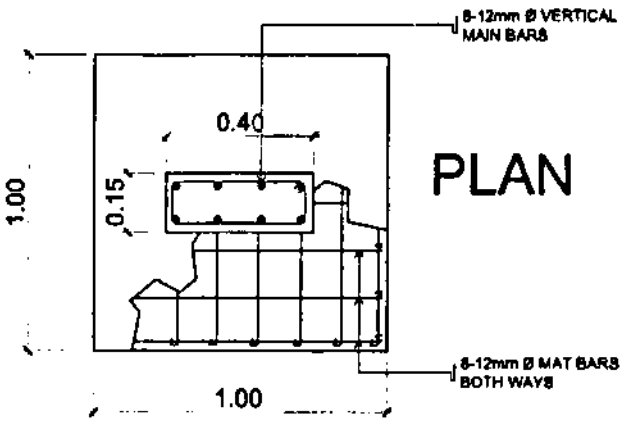
PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING E&D MANAGER	CHECKED and REVIEWED BY: RODEL G. LAGMAY, ACTING PORT MANAGER	RECOMMENDING APPROVAL: REYNARD C. PERAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAMES J. SANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: S PAGE NUMBER: 2 | 9



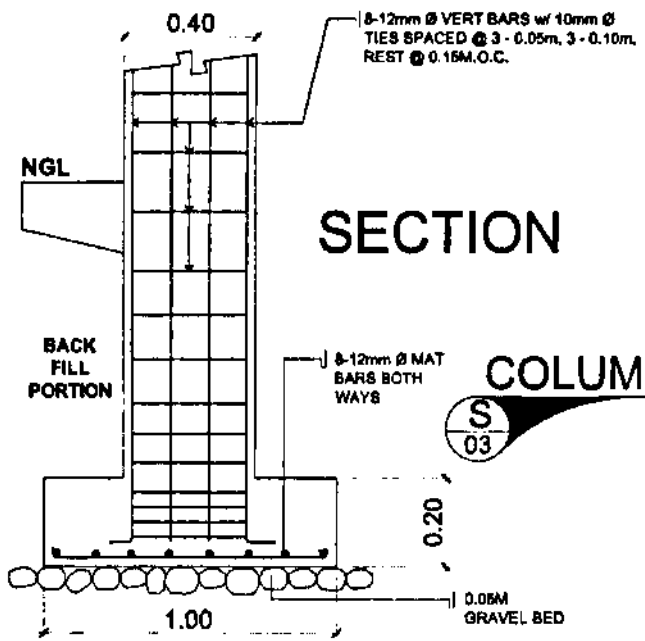
WALL FOOTING LAYOUT

S 03

SCALE 1:300



PLAN



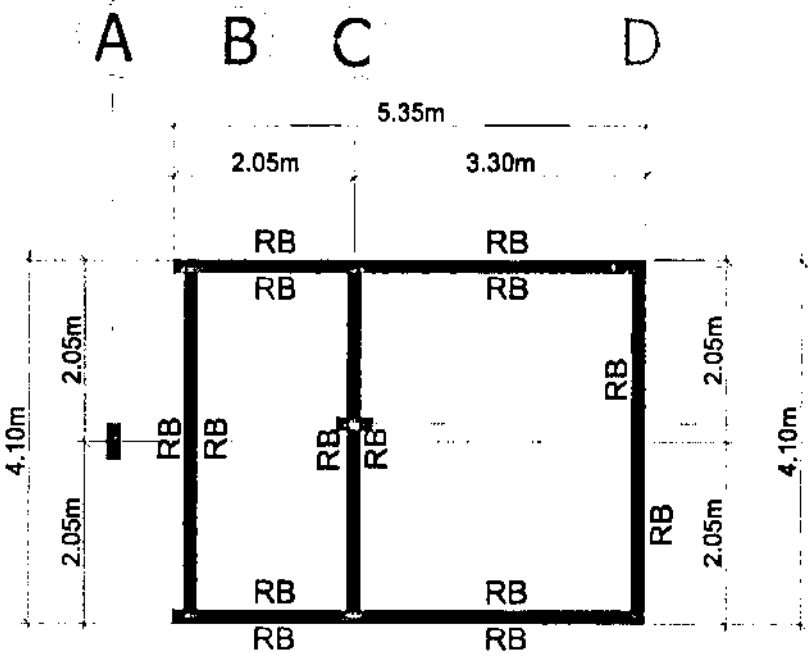
SECTION

COLUMN FOOTING LAYOUT

S 03

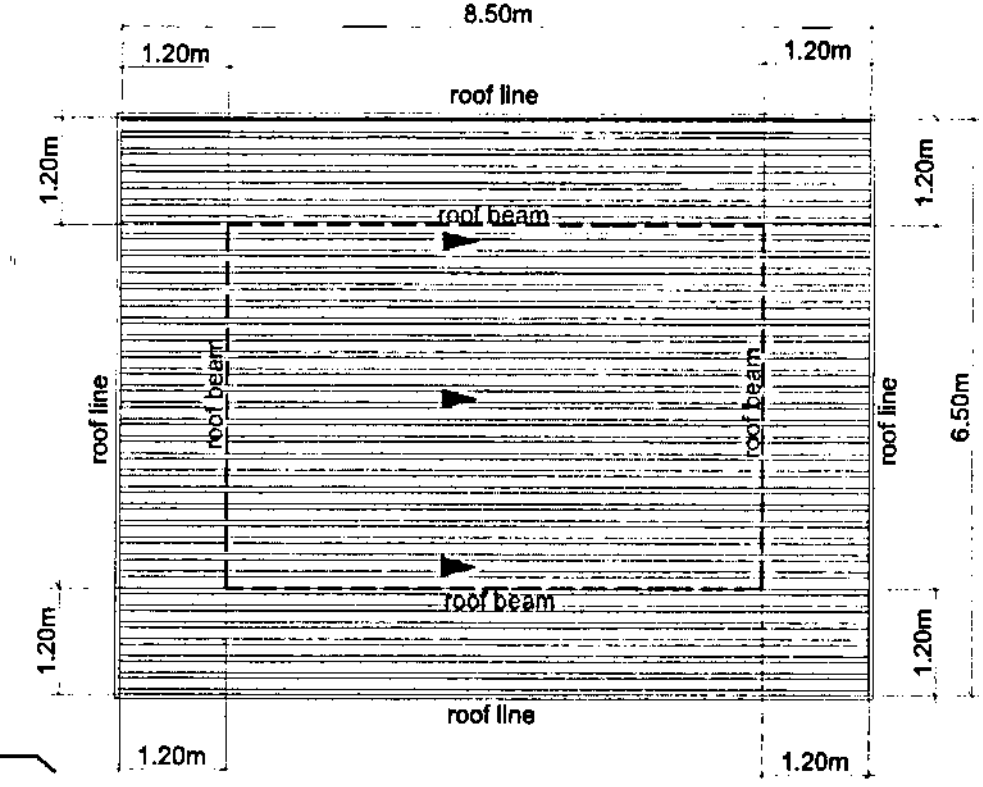
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PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING EBD MANAGER	CHECKED and REVIEWED BY: ROGELIO G. LAGMAY, ACTING PORT MANAGER	RECOMMENDING APPROVAL: REYNAND C. PAYAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAMES V. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: S PAGE NUMBER: 3 9



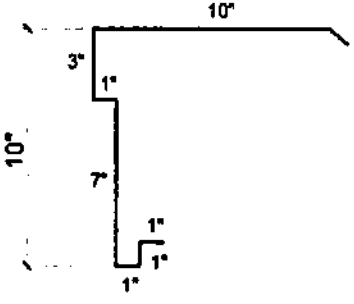
ROOF BEAM LAYOUT

S 04 SCALE 1:100



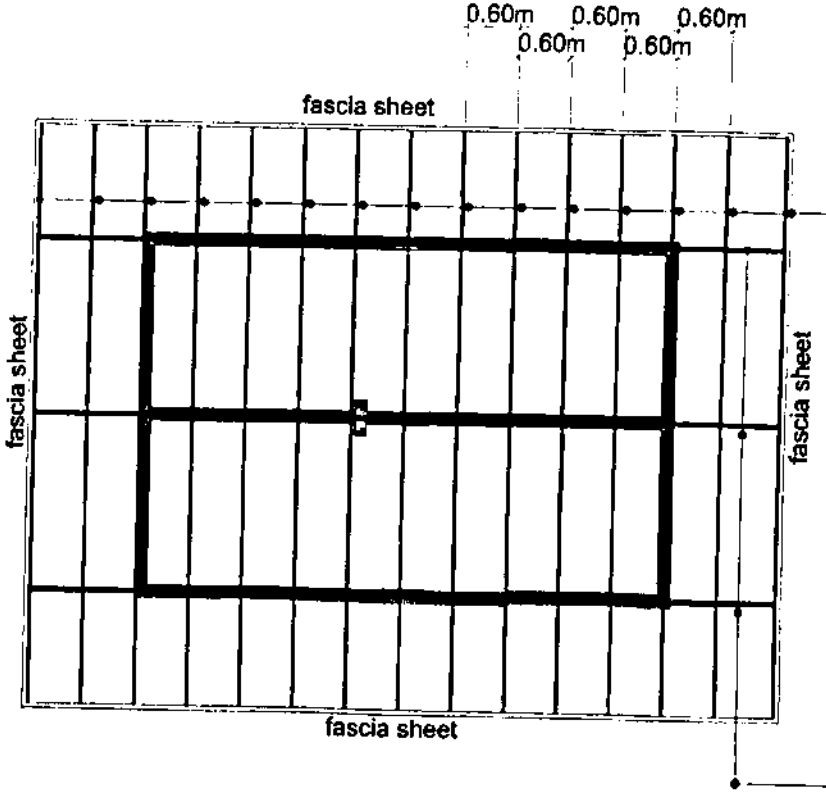
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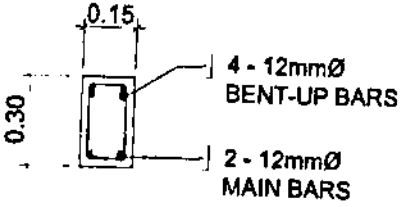
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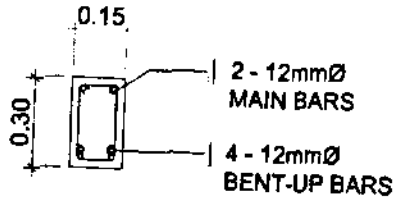
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PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING ESD MANAGER	CHECKED and REVIEWED BY: RODEL G. LAGMAY, ACTING PORT MANAGER	RECOMMENDING APPROVAL: REYNAND C. PARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: S PAGE NUMBER: 4 | 9

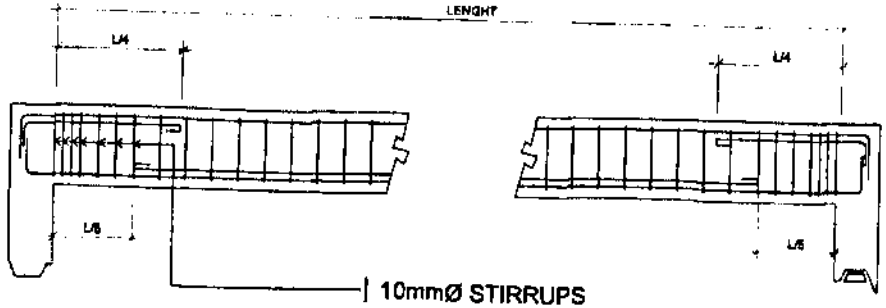




@ SUPPORT



@ MID SPAN



ROOF FRAMING DETIAL

S 06

SCALE 1:100

ROOF BEAM DETAIL

S 07

SCALE 1:50

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF MIMAMAYLAN, MIMAMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY: RICHEL R. ARCEO, ACTING FBD MANAGER

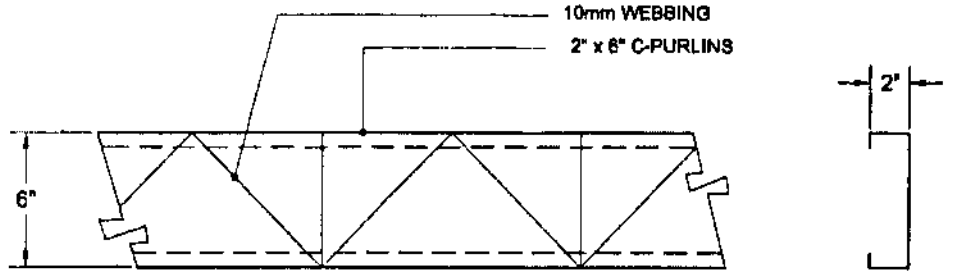
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RECOMMENDING APPROVAL: REYNAND C. ARAFINA, PORT PLANNING and DEVELOPMENT DEPARTMENT MANAGER

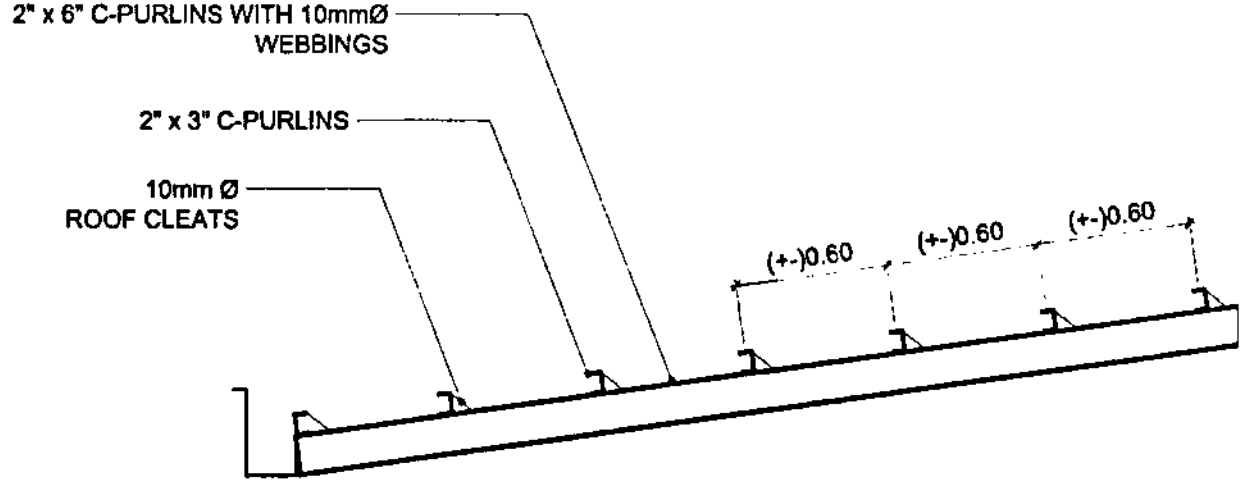
APPROVED BY: JAMES G. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: S

PAGE NUMBER: 5 | 9



PLAN SECTION



TYPICAL ROOF FRAMING DETAIL

S 08

SCALE NTS

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE
LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

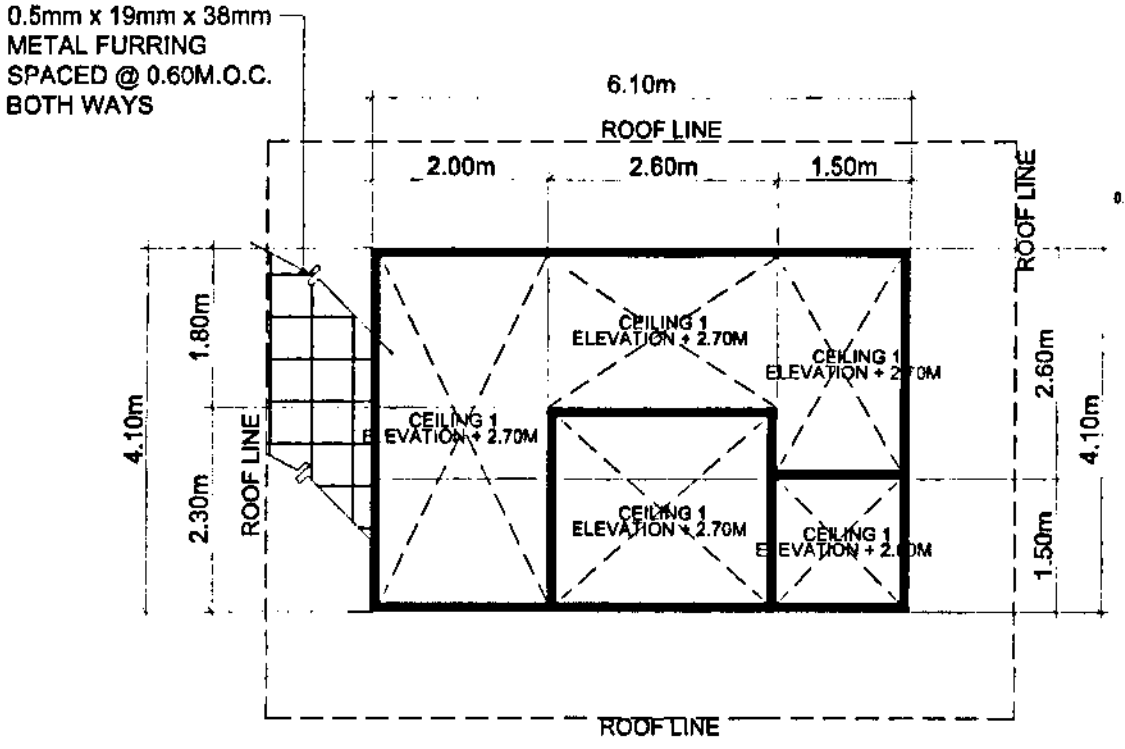
PREPARED BY:
RICHEL R. ARCEO
ACTING ESD MANAGER

CHECKED and REVIEWED BY:
RODEL G. LAGMAY
ACTING PORT MANAGER

RECOMMENDING APPROVAL:
REYNANO C. [illegible] INA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY:
JAMES J. DANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

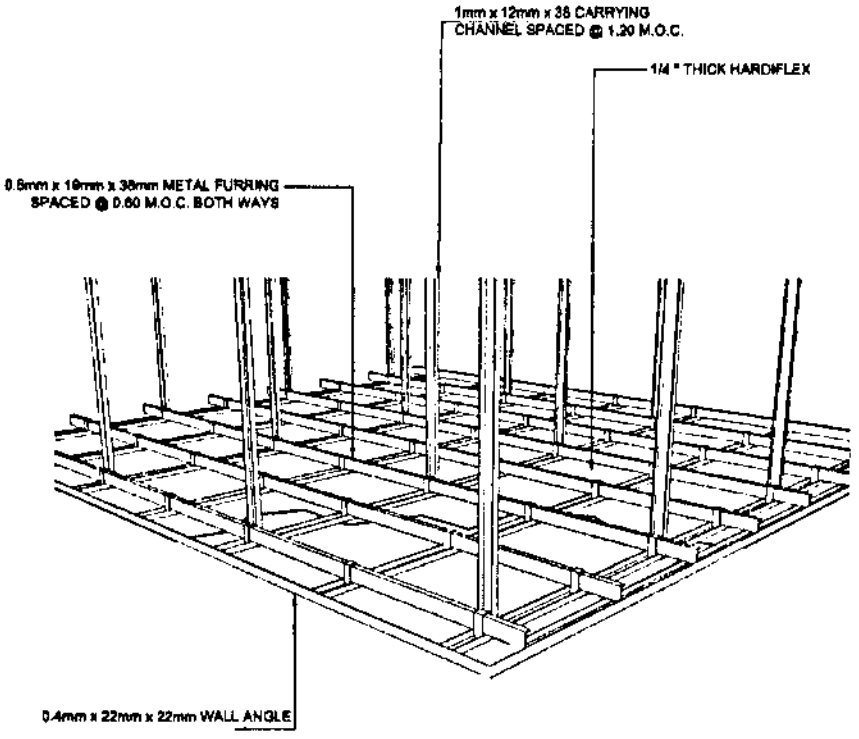
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REFLECTED CEILING PLAN

S / 09

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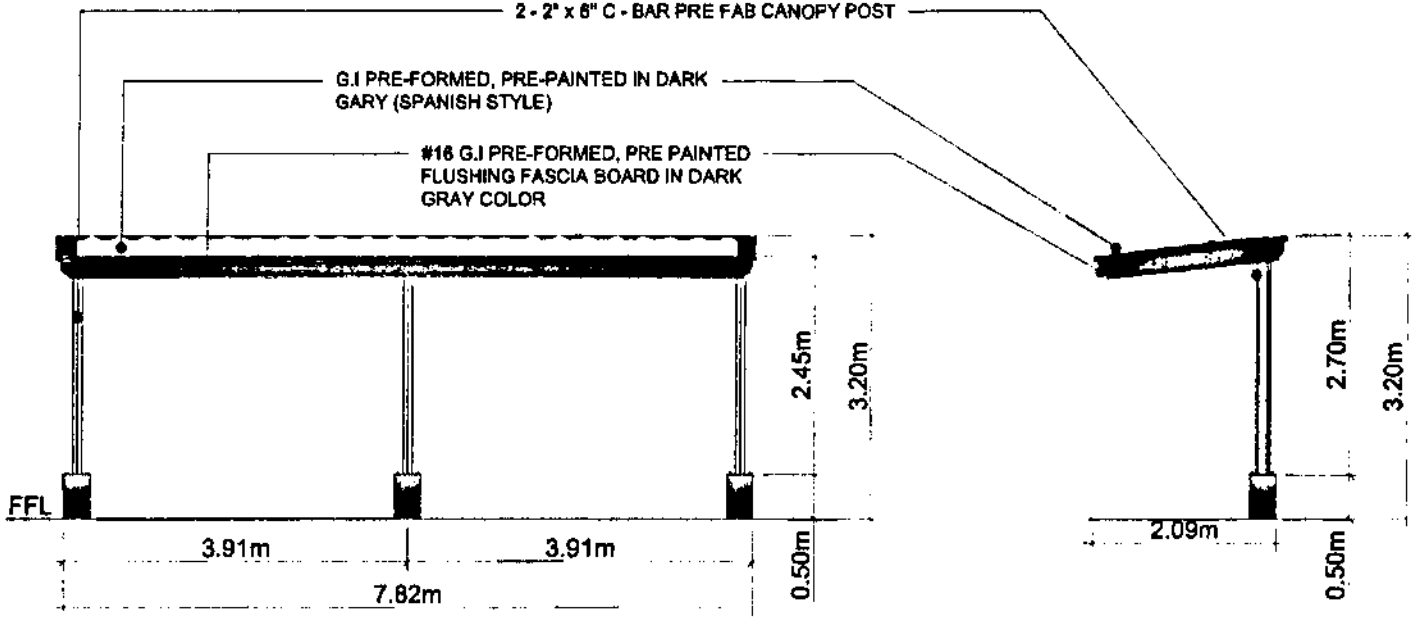


CEILING CONNECTION DETAIL

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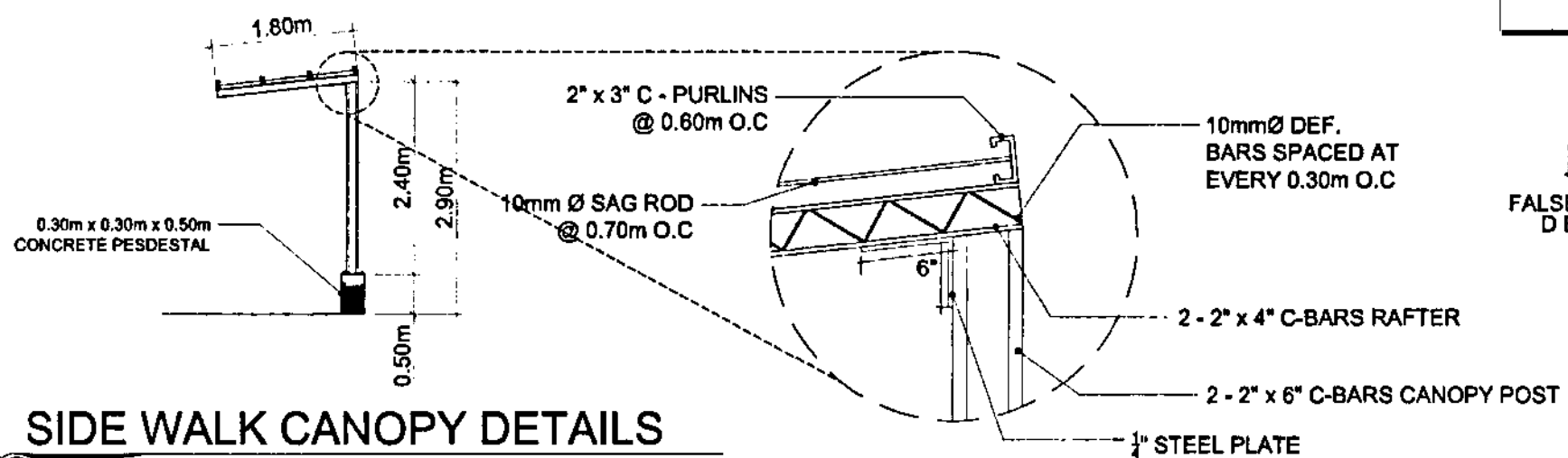
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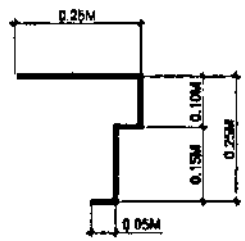
PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING EED MANAGER	CHECKED and REVIEWED BY: RODEL G. LAGMAY, ACTING EED MANAGER	RECOMMENDING APPROVAL: REYNANDO C. MAGAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAMES J. CANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: S PAGE NUMBER: 7 | 9



FRONT ELEVATION

SIDE ELEVATION





FALSE GUTTER DETAIL

SIDE WALK CANOPY DETAILS

S/11

SCALE: 1: 100

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY: RICHEL R. ARCEO, ACTING E&D MANAGER

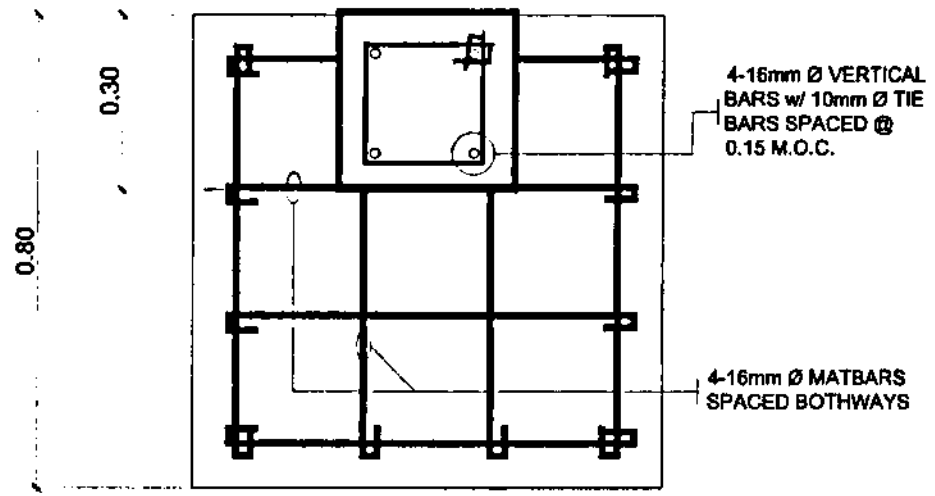
CHECKED and REVIEWED BY: RODEL G. LAGMAY, ACTING PORT MANAGER

RECOMMENDING APPROVAL: REYNARD C. TARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER

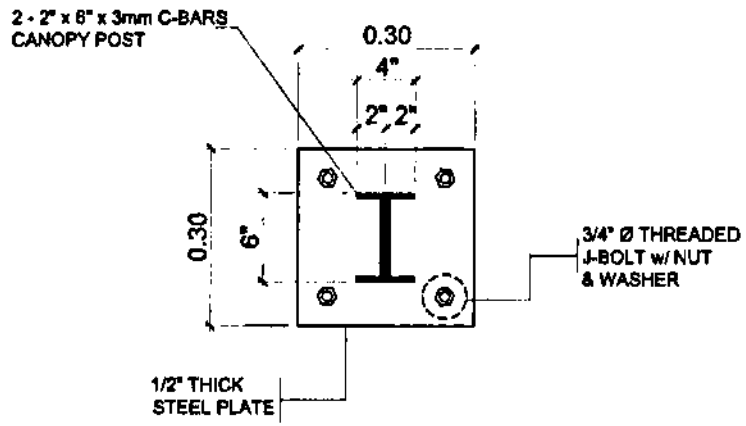
APPROVED BY: JAMES J. CANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING

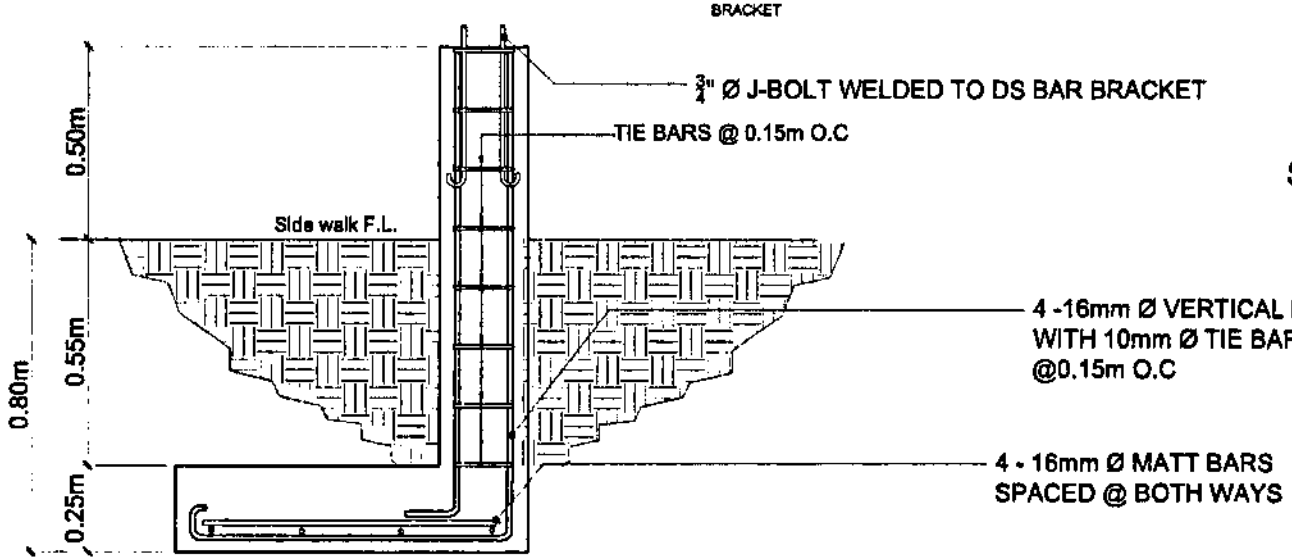
SHEET NUMBER: S

PAGE NUMBER: 8 | 9



PLAN





CONCRETE PEDESTAL w/ STEEL PLATE DETAIL

SCALE: 1: 15

PHIL. PORTS AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE
LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

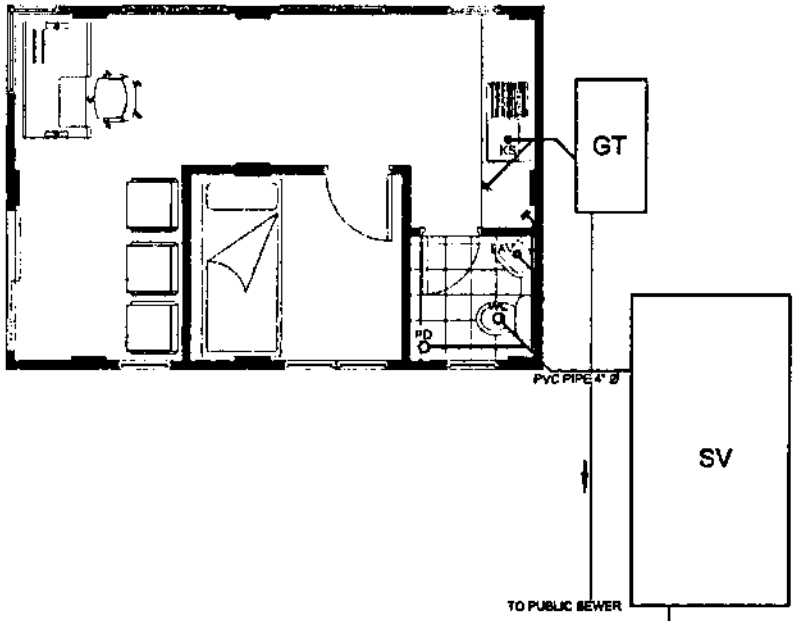
PREPARED BY:
RICHEL R. ARCEO
ACTING E&D MANAGER

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ROGER G. LAGMAY
ACTING PORT MANAGER

RECOMMENDING APPROVAL:
REYNAND C. PARAFINA
PORT PLANS, E&D and DESIGN DEPARTMENT MANAGER

APPROVED BY:
JAMES J. SANTIAGO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

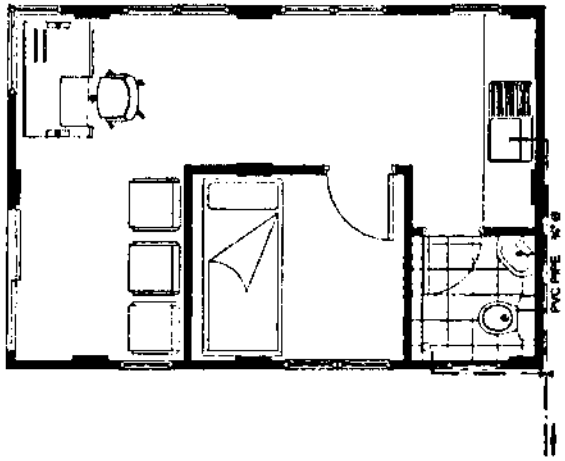
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PAGE NUMBER
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SANITARY LAYOUT

P 01

SCALE 1:100



WATER LINE LAYOUT

P 02

SCALE 1:100

LEGEND							
⋈	GATE VALVE	KS	KITCHEN SINK	BD	BATH TUB DRAIN	SV	SEPTIC VAULT
▭	PUMP	LAV	LAVATORY	CB	CATCH BASIN	URI	URINAL
⊙	WATER FILTER	PPR	POLYPROPYLENE RANDOM	CO	CLEAN OUT	VST	VENT STOCK
—·—·—	WATER LINE	SD	SHOWER DRAIN	GV	GATE VALVE	VSTR	VENT STOCK THRU ROOF
⊙	WATER TANK	SHO	SHOWER	FB	FOOT BATH	WC	WATER CLOSET
BT	BATH TUB	SP	STOCK PIPE	FD	FLOOR DRAIN		

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINIMAYLAN, HINIMAYLAN CITY, NEGROS OCCIDENTAL

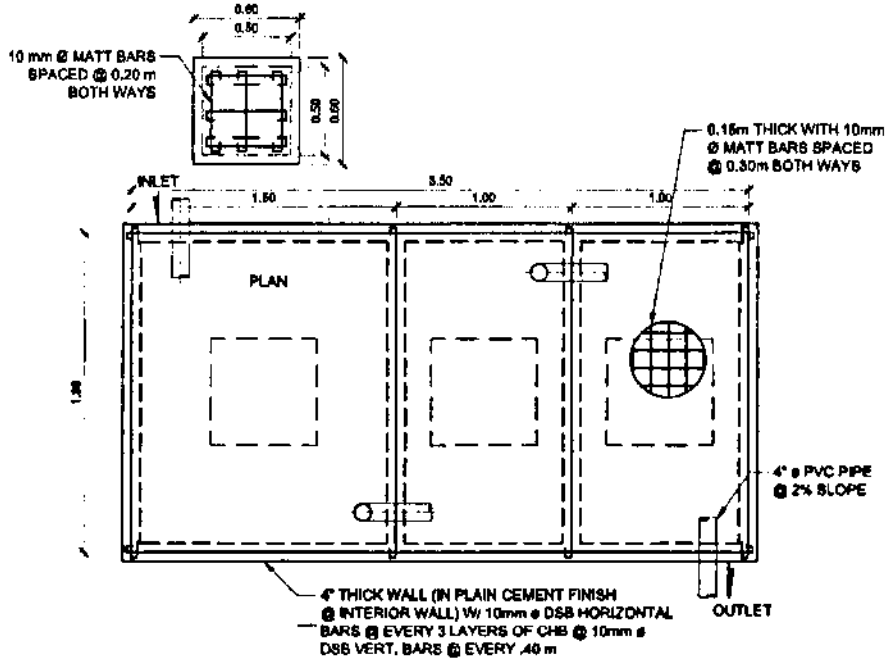
PREPARED BY: RICHEL R. ARCEO, ACTING E30 MANAGER

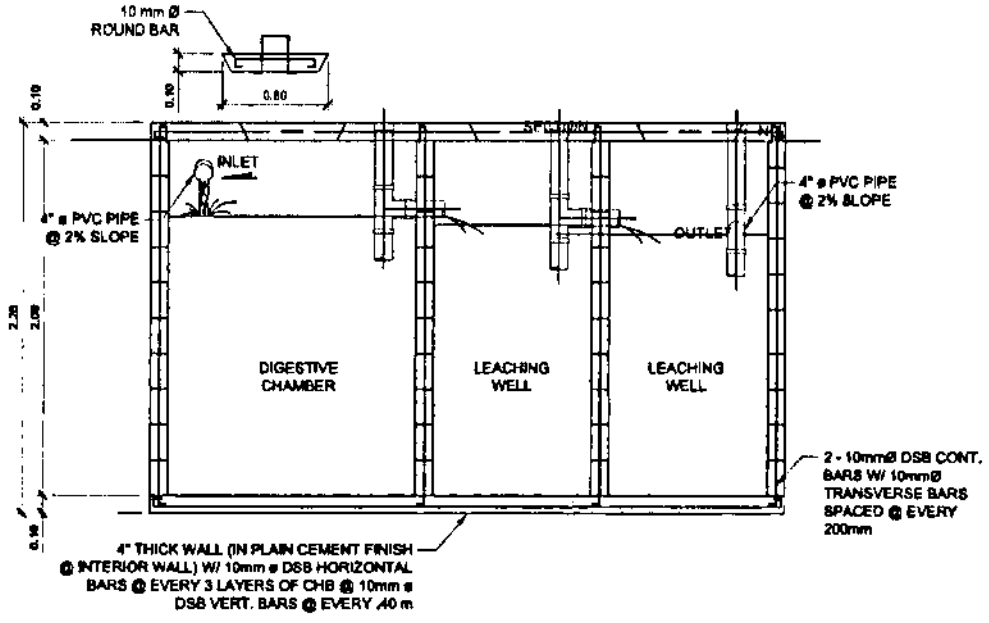
CHECKED and REVIEWED BY: RODEL G. LAGMAY, ACTING UNIT MANAGER

RECOMMENDING APPROVAL: REYNANDO G. PERALTA, PORT PLANNING and DEVELOPMENT DEPARTMENT MANAGER

APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: P, PAGE NUMBER: 1 | 3





SEPTIC VAULT DETAIL

P 03

SCALE 1:50

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:
PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY, NEGROS OCCIDENTAL

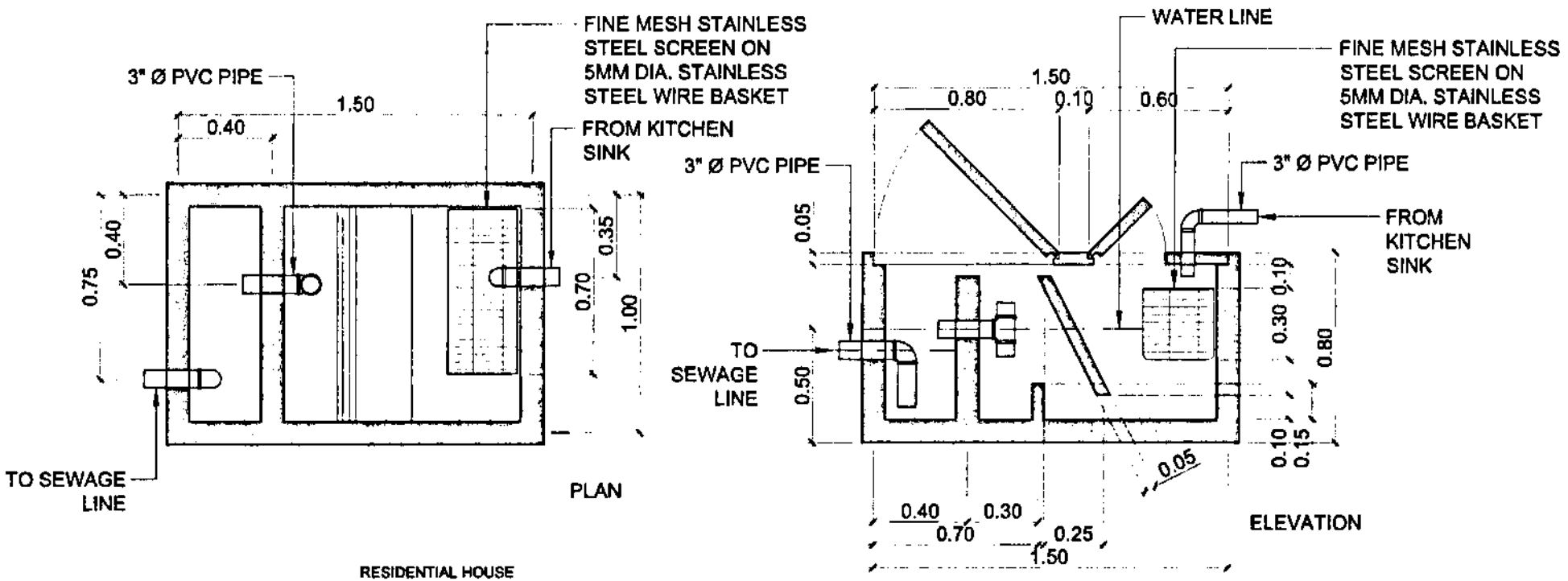
PREPARED BY:
RICHEL R. ARCEO
ACTING E&D MANAGER

CHECKED and REVIEWED BY:
RODEL O. LAGMAY
ACTING PORT MANAGER

RECOMMENDING APPROVAL:
REYNAND C. PARAFINA
PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY:
JAMES J. SANTALAO
ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: P
PAGE NUMBER: 2 | 3



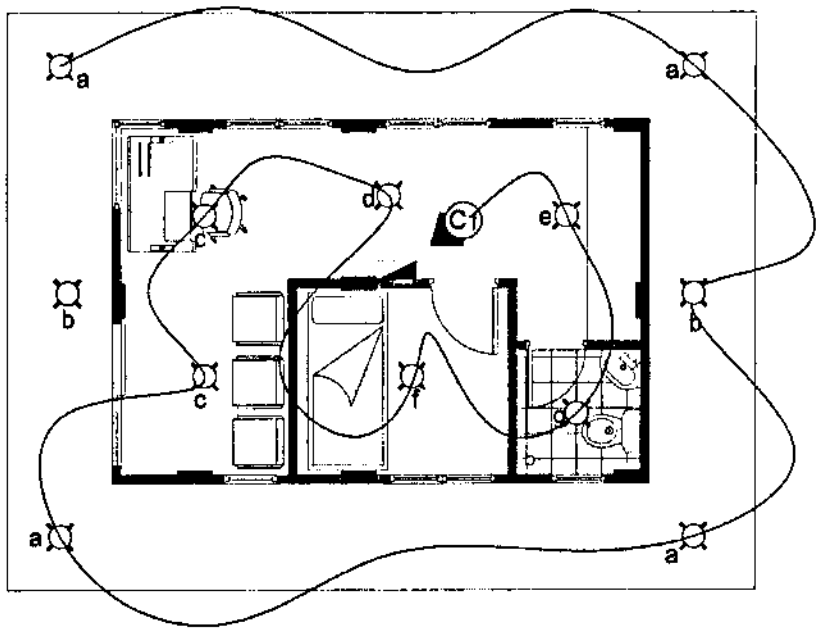
RESIDENTIAL HOUSE

GREASE TRAP DETAIL

P 06

SCALE 1:30

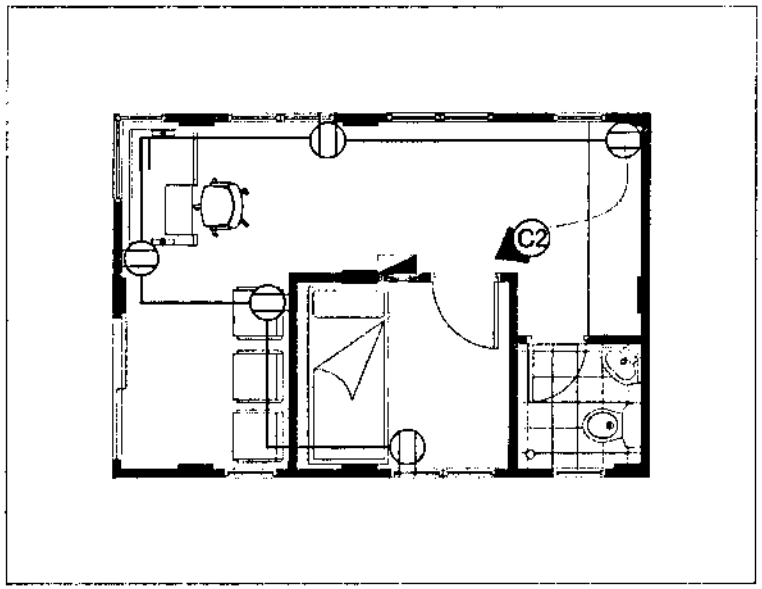
PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE LOCATION: PORT OF HINAMAYLAN, HINAMAYLAN CITY NEGROS OCCIDENTAL	PREPARED BY: RICHEL R. ARCEO, ACTING EBD MANAGER	CHECKED & REVIEWED BY: RODEL S. LAGMAY, ACTING PORT MANAGER	RECOMMENDED & APPROVAL: REYNAND C. PARAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER	APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING	SHEET NUMBER: P PAGE NUMBER: 3 | 3



CEILING LIGHT OUTLET

E 01

SCALE NTS



CEILING LIGHT OUTLET

E 02

SCALE NTS

LEGEND

	RECESSED PANEL LIGHT	REF	REFRIGERATOR		PANEL BOARD		CIRCUIT BREAKER
	PIN LIGHT	WM	WASHING MACHINE		CONVENIENCE OUTLET		CIRCUIT HOMERUN
	PENDANT LIGHT		SWITCH LINE	WP	WEATHER PROOF OUTLET		GROUND
	EXTERIOR WALL LIGHT		CIRCUIT LINE	RNG	RANGE	KWH	KILOWATT HOUR METER

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINIMAYLAN, HINIMAYLAN CITY, NEGROS OCCIDENTAL

PREPARED BY: RICHEL R. ARCEO, ACTING ESD MANAGER

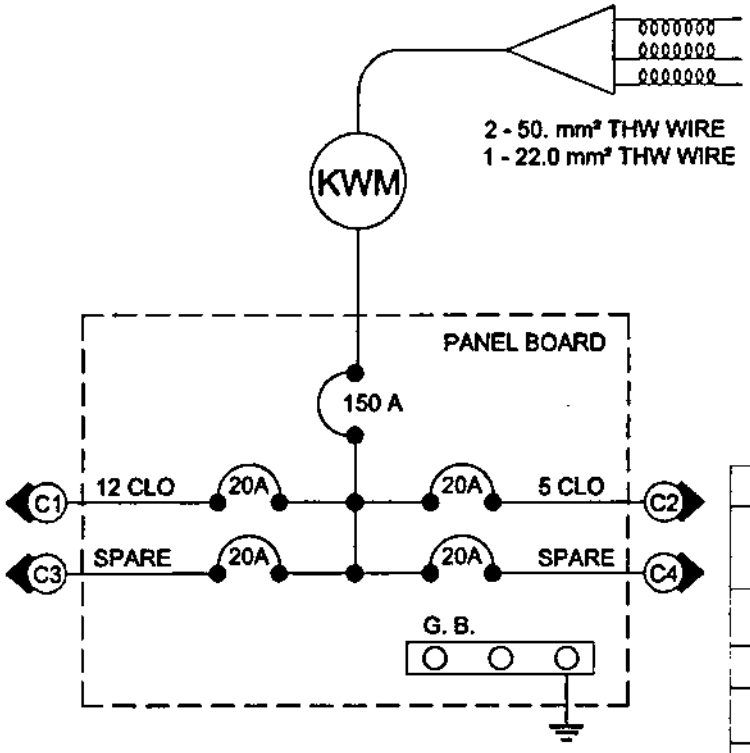
CHECKED and REVIEWED BY: RODEL G. LAGMAY, ACTING PORT MANAGER

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APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: E

PAGE NUMBER: 1 | 2



GENERAL NOTES

1. ALL ELECTRICAL WORKS SHALL CONFORMED TO PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODES, RULES AND REGULATIONS OF THE LOCAL AND NATIONALE AUTHORITIES AND REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
2. SERVICE ENTRANCE SHALL BE 3 SETS -3 x 250.00MCM THW (3-#2 BARE/GE IN 63MM DIA. RSC
3. MAIN DISCONNECT USE 3- 600A, 3P, 240V, ACB, 65KAIC, ATS POWER TRANSMITTER SYSTEM, SEE SINGLE LINE DIAGRAM.
4. METHOD OF WIRING: ALL WIRING DURING INSTALLATIONS SHALL BE IN RIGID PVC EMBEDDED IN CONCRETE SLABS, COLUMNS, CEILING AND WOODEN PARTITIONS FOR BRANCH CIRCUITS AND SUB-FEEDERS. IF EXPOSED USE RIGID STEEL CONDUITS.
5. NO SPLICING OF THE CONDUCTORS INSIDE THE CONDUITS
6. NO BRANCH CIRCUITS SHALL HAVE A LOADS MORE THAN 75% OF ITS AMPACITY.
7. ALL WIRING DURING INSTALLATION, COLOR CODED MUST BE OBSERVED.

A) PHASE WIRES: L1 - BLACK COLOR
B) NEUTRAL WIRES: N - WHITE
C) PROTECTED EARTH: PE - GREEN
L2 - RED COLOR
L3 - YELLOW

8. ALL MATERIALS AND EQUIPMENTS TO BE USED SHALL BRAND NEW AND APPROVED AS TO LOCATIONS AND PURPOSED AND SOLIDLY GROUNDED.
9. MINIMUM SIZE OF WIRES AND CONDUITS SHALL BE 3.5MM², THWN DURAFLEX OR APPROVED EQUAL AND 20.64MM DIA. RIGID PVC CONDUITS WELTEX, ATLANTA OR APPROVED EQUAL.
10. WHENEVER REQUIRED OR NECESSARY PULLBOX AND JUNCTION BOX SHALL BE PROVIDED EVEN NOT INDICATED ON PLANS, WIRES AND CABLES 45.5% COPPER CONDUCTIVITY DURAFLEX, PHILFLEX OR APPROVED EQUAL.
11. MENDOR TEST MUST BE CONDUCTED AS REQUISITES OF OWNING ELECTRICAL SERVICE CONNECTION. ANY ELECTRICAL WORKS AFFECTED BY ACTUAL CONDITIONS OF REVISIONS DESIGN ELECTRICAL ENGINEER MUST BE CONSULTED FOR FINAL APPROVAL.
12. ALL ELECTRICAL WORKS MUST BE DIRECT SUPERVISION OF ANY GRADE ELECTRICAL ENGINEER AND REGISTERED MASTER ELECTRICIANS AS PER R.A. NO. 7920.

MOUNTING HEIGHTS:

SWITCH= 1.37M AFF
PANELBOARD 1.80M TOP OF PANELS TO FLOOR LINES

SCHEDULE OF LOADS

MARK	DESCRIPTION	QTY	VOLT	PHASE	WATTS	AMPS	CB	CONDUCTOR		CONDUIT
								LIVE	GROUND	
C1	CEILING LIGHT OUTLETS	12	220	2P	360	1.63	20 A	2-3.5mm² THHN	2-2.0mm² THHN	20mm Ø PVC
C2	CONVENIENCE OUTLET	5	220	2P	1100	5	30 A	2-3.5mm² THHN	2-2.0mm² THHN	25mm Ø PVC
SPARE	1	1	220	2P	1500	6.81	30 A	2-3.5mm² THHN	2-2.0mm² THHN	25mm Ø PVC
SPARE	1	1	220	2P	1000	4.55	30 A	2-3.5mm² THHN	2-2.0mm² THHN	25mm Ø PVC
				TOTAL	3960	17.99				

LOAD ANALYSIS

SIZE OF SUB FEEDER CONDUCTOR and OVER CURRENT PROTECTION

I = 17.99 + (1.25 x 13.64) - 13.64)

I = 21.4 AMPERES

USE: 2 - 50.0mm² THW WIRE In50mm Ø RMC with 150a, 2P, MCB TYPE AS MAIN OVER CURRENT PROTECTION and 1 - 22.0mm² THW GREEN AS R.E

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE: PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE & GUARD HOUSE

LOCATION: PORT OF HINMAYLAN, KINAMAYLAN CITY, MISOR OCCIDENTAL

PREPARED BY: RICHEL R. ARCEO, ACTING BID MANAGER

CHECKED and REVIEWED BY: RODEL O. LAGMAY, ACTING PORT MANAGER

RECOMMENDING APPROVAL: REYNAND C. MAKAFINA, PORT PLANNING and DESIGN DEPARTMENT MANAGER

APPROVED BY: JAMES J. GANTALAO, ASSISTANT GENERAL MANAGER FOR ENGINEERING

SHEET NUMBER: E

PAGE NUMBER: 2 2

SECTION VIII

BILL OF QUANTITIES and ATTACHMENTS

BID SUMMARY

Proposed Construction of RC Pier, Roro Ramp, Perimeter Fence, Gate and Guard House

Port of Himamaylan, Himamaylan City, Negros Occidental

NO.		DESCRIPTION OF WORK	AMOUNT (Pesos)
BILL NO.	1	GENERAL EXPENSES	
BILL NO.	2	CONSTRUCTION OF RC PIER AND RORO RAMP	
BILL NO.	3	CONSTRUCTION OF PERIMETER FENCE, GATE AND GUARD HOUSE	
		BID PRICE	-

Name of Firm

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

Date

Philippine Ports Authority
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

BILL OF QUANTITIES

PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE AND GUARD HOUSE
PORT OF HIMAMAYLAN PORT, HIMAMAYLAN CITY, NEGROS OCCIDENTAL

NO. (1)	DESCRIPTION OF WORKS (2)	UNIT (3)	QUANTITY (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4 X 5)
Bill No. I	GENERAL EXPENSES				
1.01.	Mobilization/Demobilization and Clearing	lot	1.00		
1.02.	Provide Safety and Health Program	mo.	12.00		
1.03.	Provide Temporary Facilities for the Engineer and Staff (Rental)	mo.	12.00		
	TOTAL AMOUNT FOR BILL NO. I				P

Name/Signature of Authorized Signing Official

Philippine Ports Authority
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

BILL OF QUANTITIES

PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE AND GUARD HOUSE
PORT OF HIMAMAYLAN PORT, HIMAMAYLAN CITY, NEGROS OCCIDENTAL

NO. (1)	DESCRIPTION OF WORKS (2)	UNIT (3)	QUANTITY (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4 X 5)
Bill No. II	CONSTRUCTION OF RC PIER AND RORO RAMP				
2.01.	Supply and Deliver of RC Piles (6,000 psi concrete)	l.m.	2,700.00		
2.02.	Handle, Pitch and Drive Batter RC Piles	l.m.	1,368.00		
2.03.	Handle, Pitch and Drive Vertical RC Piles	l.m.	1,332.00		
2.04.	Chipping of Driven RC piles up to Cut-off Elevation	no.	150.00		
2.05.	Supply and Place 4000 PSI Concrete for the Superstructure	cu.m.	599.45		
2.06.	Supply and Install Reinforcing Steel Bars	kgs.	45,000.00		
2.07.	Supply, Deliver and Install Mooring Bollard T Head (35 T, T-head) including Accessories	set	7.00		
2.08.	Install nine (9) sets of in Stock Rubber Dock Fender V Type (V500x1500L) including Accessories	set	9.00		
	TOTAL AMOUNT FOR BILL NO. II.				P

Name/Signature of Authorized Signing Official

Philippine Ports Authority
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

BILL OF QUANTITIES

PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE AND GUARD HOUSE
PORT OF HIMAMAYLAN PORT, HIMAMAYLAN CITY, NEGROS OCCIDENTAL

NO. (1)	DESCRIPTION OF WORKS (2)	UNIT (3)	QUANTITY (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4 X 5)
Bill No. III	CONSTRUCTION OF PERIMETER FENCE, GATE AND GUARD HOUSE				
3.01.	Excavation for Column and Wall Footing of Fence, Gate, and Guard Holes and Septic Vault	cu.m.	190.96		
3.02.	Fabrication and Installation of Formworks and Scaffolding	sq.m.	313.70		
3.03.	Supply and Install Reinforcing Steel Bars	kgs.	5,936.00		
3.04.	Concrete Works	cu.m.	780.60		
3.05.	Masonry Works	sq.m.	503.55		
3.06.	Supply and Install of Guard House Roof Frame, Roofing and Sidewalk Canopy	sq.m	58.00		
3.07.	Supply and Install of Fibercement Board Ceiling on Metal Furring Frame	sq.m.	52.53		
3.08.	Painting Works	sq.m.	2,498.12		
3.09.	Supply and Install of Guard House Doors, Windows and PPA Logo	lot	1.00		

Philippine Ports Authority
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

BILL OF QUANTITIES

PROPOSED CONSTRUCTION OF RC PIER, RORO RAMP, PERIMETER FENCE, GATE AND GUARD HOUSE
PORT OF HIMAMAYLAN PORT, HIMAMAYLAN CITY, NEGROS OCCIDENTAL

3.10.	Supply and Install of Floor Tiles	sq.m.	24.00		
3.11.	Fabrication and Installation of Steel Fence, and Gate Including Accessories	lot	1.00		
3.12.	Supply and Install of Plumbing Fixtures, Water Line, Sanitary Line and Septic Vault	lot	1.00		
3.13.	Supply and Install Electrical Line and Fixtures	lot	1.00		
	TOTAL AMOUNT FOR BILL NO. III.				P

_____
Name/Signature of Authorized Signing Official

BASIS OF PAYMENT FOR WORK ITEMS INCLUDED IN THE PROPOSAL

The work items included in the proposal and the basis of payments are as follows:

BILL NO. 1

GENERAL EXPENSES

Item 1.01 Mobilization/ Demobilization and Clearing

The quantity to be paid for shall be the minimum equipment requirement enumerated in the bid documents mobilized, demobilized, and cleaning the site as accepted by the Engineer. The contract lump sum price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to mobilize and demobilize all the minimum equipment requirements enumerated in the bid documents including cleaning of the site. Fifty percent (50%) of the total amount shall be payable after the mobilization activity while the remaining (50%) payable after demobilization and cleaning.

Item 1.02 Provide Safety and Health Program

The quantity to be paid for shall be the actual implementation of the construction safety and health program as accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, tools, and incidentals necessary to complete its implementation, as required and approved by the Department of Labor and Employment (DOLE).

Item 1.03 Provide Temporary Facilities for the Engineer and Staff (Rental)

The quantity to be paid for shall be the actual services rendered in the rental of temporary facilities as accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, tools, and incidentals necessary to complete the maintenance of the temporary site office and residence as well as other expenses such as provision for electric power, telephone bill, potable water supply, janitorial and security services.

BILL NO. 2

CONSTRUCTION OF RC PIER AND RORO RAMP

Item 2.01 Supply and Deliver of RC Piles (6,000 psi concrete)

Payment shall be made at the contract unit price per lineal meter for the supply and delivery of RC Piles (6,000 psi concrete). This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 2.02 Handle, Pitch and Drive Batter RC Piles

Payment shall be made at the contract unit price per lineal meter for handling, pitching and driving batter RC piles. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 2.03 Handle, Pitch and Drive Vertical RC Piles

Payment shall be made at the contract unit price per lineal meter for handling, pitching and driving vertical RC piles. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 2.04 Chipping of Driven RC piles up to Cut-off Elevation

Payment shall be made at the contract unit price per number of chipping of driven RC piles up to cut-off elevation. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 2.05 Supply and Place 4000 PSI Concrete for the Superstructure

Payment shall be made at the contract unit price per cubic meter of supply and place 4000 PSI concrete for the superstructure. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 2.06 Supply and Install Reinforcing Steel Bars

Payment shall be made at the contract unit price per kilograms of supply and place reinforcing steel bars. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 2.07 Supply, Deliver and Install Mooring Bollard T Head (35 T, T-head) Including Accessories

Payment shall be made at the contract unit price per set of supply, delivery and installation of mooring bollard T head (35 T, T-head) including accessories. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 2.08 Install Nine (9) sets of In stock Rubber Dock Fender V Type (V500x1500L) including Accessories

Payment shall be made at the contract unit price per set of the installed nine (9) sets of In-stock Rubber Dock Fender V Type (V500x1500L) including Accessories. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

BILL NO. 3

CONSTRUCTION OF PERIMETER FENCE, GATE AND GUARD HOUSE

Item 3.01 Excavation for Column and Wall Footing of Fence, Gate, and Guard House and Septic Vault

Payment shall be made at the contract unit price per cubic meter for excavation for column and wall footing of fence, gate, guard house and septic vault. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.02 Fabrication and Installation of Formworks and Scaffolding

Payment shall be made at the contract unit price per square meter for fabrication and installation of formworks and scaffoldings. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.03 Supply and Install Reinforcing Steel Bars

Payment shall be made at the contract unit price per kilograms for supply and installation of reinforcing steel bars. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.04 Concrete Works

Payment shall be made at the contract unit price per cubic meter for concrete works. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.05 Masonry Works

Payment shall be made at the contract unit price per square meter for masonry works. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.06 Supply and Install of Guard House Roof Frame, Roofing and Sidewalk Canopy

Payment shall be made at the contract unit price per square meter for supply and installation of guard house roof frame, roofing and sidewalk canopy. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.07 Supply and Install of Fibercement Board Ceiling on Metal Furring Frame

Payment shall be made at the contract unit price per square meter for supply and installation of fibercement board ceiling on metal furring frame. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.08 Painting Works

Payment shall be made at the contract unit price per square meter for painting works. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.09 Supply and Install of Guard House Doors, Windows and PPA Logo

Payment shall be made at the contract unit price per lot for supply and installation of guard house doors, windows and PPA logo. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.10 Supply and Install of Floor Tiles

Payment shall be made at the contract unit price per square meter for fabrication and installation of floor tiles. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.11 Fabrication and Installation of Steel Fence, and Gate Including Accessories

Payment shall be made at the contract unit price per lot for fabrication and installation of steel fence, and gate including accessories. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.12 Supply and Install of Plumbing Fixtures, Water Line, Sanitary Line and Septic Vault

Payment shall be made at the contract unit price per lot for supply and installation of plumbing fixtures, water line, sanitary line and septic vault. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Item 3.13 Supply and Install Electrical Line and Fixtures

Payment shall be made at the contract unit price per lot for supply and installation of electrical line and fixtures. This price shall be full compensation for furnishing all materials and for all preparation, delivering, and applying the materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

FACILITIES TO BE PROVIDED FOR THE ENGINEER & HIS STAFF

RENTAL OF SITE OFFICE AND RESIDENCE FOR THE ENGINEER & STAFF

The Contractor shall provide a temporary site office and residence (rental) with an area of at least 48 square meters for use of the Engineer and his staff for the whole duration of the project.

MINIMUM EQUIPMENT REQUIREMENTS

1	unit/s	Transit Mixer (5-6 cu.m., capacity), owned/leased
1	unit/s	Concrete Vibrator (3.5 hp, minimum), owned
1	unit/s	Welding Machine (400amp., minimum), owned/leased
1	unit/s	Crawler Crane (30T, minimum), owned/leased
1	unit/s	Bar Cutter (25mm dia, min.), owned
1	unit/s	Bar Bender (25mm dia, min.), owned
1	unit/s	Drop Hammer (2T, minimum), owned/leased
1	unit/s	Diesel Hammer (3,500kg.m. or equivalent), owned
1	unit/s	Oxygen/Acytelene Cutting Outfit, owned/leased
1	unit/s	Chipping Hammer, owned/leased
1	unit/s	Backhoe (1 cu.m. capacity), owned/leased
1	unit/s	Dumptruck (fuel and oil), owned/leased
1	unit/s	Boom Truck (2.8T capacity), owned/leased
1	unit/s	Concrete Mixer (1 bagger, minimum), owned/leased
1	unit/s	Electric Drill, owned
1	unit/s	Electric Grinder, owned

CONSTRUCTION SAFETY AND HEALTH REQUIREMENT

The Contractor shall implement the construction safety and health program in accordance with the applicable provisions of the Occupational Safety and Health Standards (OSHS) of the Department of Labor and Employment (DOLE).

The Contractor, subject to the approval of the Engineer shall provide and maintain throughout the duration of the contract a medical room with at least 15 square meters together with all necessary supplies to be sited in the Contractor's main area.

The Contractor shall provide the following minimum requirements:

L A B O R

1 no. Safety Engineer / Officer

EQUIPMENT / MATERIALS

Personnel Protective Equipment

20 pcs. Safety Gears (Helmets, Shoes, Belts, Gloves, etc.)

Safety Devices

1 lot Safety Devices (Barricades, warning signs & other appropriate tools)

Medical and First Aid System - Twelve (12) mos.

NOTE:

The Contractor shall provide the above-cited minimum construction safety and health requirements or as required by the Engineer.

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REVISED SCHEDULE OF MINIMUM TEST REQUIREMENTS OF CONSTRUCTION MATERIALS FOR PPA INFRASTRUCTURE PROJECTS

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
I. Construction of Pier/Wharf, Platform and Ramp		
Structural Concrete (SC)		
A Portland Cement	Quality Test	For every 2,000 bags (40kg) or fraction thereof
B Fine Aggregate	Quality Test for Grading, Elutriation (wash), Bulk Specific Gravity, Absorption, Mortar Strength, Soundness, Organic Impurities, Unit Weight, % Clay Lumps and Shale	For every 1,500 cubic meter or fraction thereof
C Coarse Aggregate	Quality Test for Grading, Bulk Specific Gravity, Absorption and Abrasion	For every 1,500 cubic meter or fraction thereof
D Water	Certificate from the Engineer or Quality Test for Density and Chloride Content	One per source
E Steel Bars	Mill Certificate and Quality Test for Chemical Composition and Mechanical Properties	For every 10,000 kg or fraction thereof
F Concrete	Compressive Strength on cylinder samples	1 set consisting of 3 concrete cylinder samples shall be taken from each day's pouring and to represent not more than 75 cu m of concrete or fraction thereof
	Slump Test	For every mix
G Admixture and Concrete Curing Materials	Quality Test	One per shipment
Piling (P)		
A Concrete Piles	Fabrication Report	One per fabrication
1 Concrete	Same test as for SC (F)	Same frequency as SC (F)
2 Steel Bars	Same test as for SC (E)	Same frequency as SC (E)
3 High Tension Strand	Test for Chemical Composition and Mechanical Properties	For every 20000kg or fraction thereof

Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
4 Coarse Aggregates	Same Test as for SC (C)	Same frequency as SC (C)
5 Fine Aggregates	Same Test as for SC (B)	Same frequency as SC (B)
8 Steel Pipe Piles	Fabrication Report, Mill Certificate and Quality Test for Chemical and Mechanical properties	One per fabrication
1 Steel	Chemical Composition (refer below)	
	- Under 14" (355 60mm) Outside Diameter	2 from 200 pipe of fraction thereof
	- 14" to 36" (355 6 to 914mm) Outside Dia	2 from 100 pipe or fraction thereof
	- Over 36" (914mm) Outside Diameter	2 from 3000ft (914m) or fraction thereof
	Mechanical/Tensile	One (1) tension test shall be made on one length or fraction thereof of each size, or one piece of skelp representing each lot of 200 lengths or fraction thereof of each size
2 Polyurethane Coating	Mill Certificate and Quality Test	One per fabrication
3 Concrete	Same test as for SC (F)	Same frequency as SC (F)
4 Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
5 Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
6 Steel Bars	Same Test as SC (E)	Same frequency as SC (E)
7 Water	Same Test as SC (D)	Same frequency as SC (D)
Rubber Dock Fenders (RDF)	Physical Test	All units
	Performance Test for Energy Absorption and Reaction Force	All units
Accessories		
Washer and Fixing Bolt, Anchor Bolt	Physical Test	All units
	Quality Test for Chemical Composition and Mechanical Properties	One per fabrication

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
Mooring Bollard (MB) and Accessories (Hexagon Nuts, Plain Washer, Anchor Ring and Anchor Bolt)	Physical Test Quality Test for Chemical Composition and Mechanical Properties	All Units One per fabrication
II. Construction of Back-Up Area, Causeway and Pavement		
Sheet Piling (SP)		
A Concrete Sheet Piles		
1 Concrete	Same test as for SC (F)	Same frequency as SC (F)
2 Steel Bars	Same test as for SC (E)	Same frequency as SC (E)
3 High Tension Strands	Same test as for P (A 3)	Same frequency as P (A 3)
4 Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
5 Coase Aggregates	Same Test as for SC (C)	Same frequency as SC (C)
B Steel Pipe Piles		
1 Steel	Same test as for P (B1)	Same frequency as P (B1)
2 Concrete	Same test as for SC (F)	Same frequency as SC (F)
3 Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
4 Steel Bars	Same test as for SC (E)	Same frequency as SC (E)

Materials/Items of Work	***Required Tests***	***Minimum Incremental Frequency of Tests***
Rocks	Test for Apparent Specific Gravity and Abrasion	For every 1,500 cubic meter or fraction thereof
Geotextile Filter	Physical and Mechanical Test	One per batch
	Mill Certificate	One per batch
Sand and Gravel Fill	Quality Test for Organic Impurities and Grading	For every 1,500 cubic meter or fraction thereof
Selected Fill	Quality Test for Grading, Plasticity and Laboratory Compaction Test	For every 1,500 cubic meter or fraction thereof
	Laboratory California Bearing Ratio (CBR)	For every 2,500 cubic meter or fraction thereof
	Field Density Test	For every layer of 150mm of compacted depth at least one group of three in-situ density test for every 500 sq m or fraction thereof
Aggregate Base Course	Quality Test for Grading and Plasticity	For every 300 cubic meter or fraction thereof
	Quality Test for Grading, Plasticity, Abrasion and Laboratory Compaction Test	For every 1,500 cubic meter or fraction thereof
	Laboratory California Bearing Ratio (CBR)	Same frequency as Selected Fill
	Field Density Test	Same frequency as Selected Fill
Portland Cement Concrete Pavement (PCCP)		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Steel Bars (Dowels)	Same test as for SC (E)	Same frequency as SC (E)
F Joint Filler	Quality Test	One (1) per shipment

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
G Admixture and Concrete Curing Material	Same test as for SC (G)	Same frequency as SC (G)
H Concrete	Same test as for SC (F)	Same frequency as SC (F)
	Flexural Test	3 beam samples for every 330 sq m or fraction thereof
I Completed Pavement	Core Test	1 set (3 specimen) for every 2,500 sq m and fraction thereof
Interlocking Concrete Blocks		
A Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Admixture & Concrete Curing Materials	Same test as for SC (G)	Same frequency as SC (G)
F Completed Blocks	Physical Test and Compressive Strength	6 blocks per day of fabrication
Cement Treated Base Course (CTB)		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine & Coarse Aggregates	Quality Test for Grading, Abrasion and Soundness	For every 1,500 cubic meter or fraction thereof
C Water	Same test as for SC (D)	Same frequency as SC (D)
D Completed CTB	Field Density Test	For every layer of 150mm of compacted depth at least one group of three In-situ density test every 500 sq m or fraction thereof
Retaining Wall/Coping Wall/RC Curb/RC Ditch/Shear Key/Concrete Blocks\Lean Concrete		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
C Coarse Aggregates	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Steel Bars	Same test as for SC (E)	Same frequency as SC (E)
F Admixture and Concrete Curing	Same test as for SC (G)	Same frequency as SC (G)
G Concrete	Same test as for SC (F)	Same frequency as SC (F)
Tie Rod		
A Steel	Same test as for SC (E)	One per batch
B Assembly	Performance Test (Tension)	One per batch
Tie Bars and Dowels	Same test as for SC (E)	For every 10,000 kg or fraction thereof per Tie bars and Dowels
Pipe Culverts and Storm Drains		
A Pipes	Test for Strength, Absorption and Physical	For every 50 pieces
B Mortar or Joint	Same Test as for SC (A,B and D) Alternative Test Same test as for SC (F) and Inspection Report	For every 25 pieces
Concrete Hollow Blocks		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
C Water	Same test as for SC (D)	Same frequency as SC (C)
D Concrete	Same test as for SC (F)	Same frequency as SC (F)
E Completed CHB	Quality Test	One for every 500 pieces or fraction thereof
Construction Joints (CJ)		
A Angle Bars	Test for Physical and Mechanical Properties	One per batch
B Steel Bars	Same test as for SC (E)	One per batch
C Zinc (Hot Dip Galvanizing) Coatings	Physical Test for Appearance, Stripping, Weighing, Adherence and Adhesion	All units
	Coating Thickness Magnetic Thickness Measurement	1 set (3 specimen) for every 100,000 sq mm or fraction thereof

Materials/Items of Work	***Required Tests***	***Minimum Incremental Frequency of Tests***
Sacked Concrete		
A Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregates	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Concrete	Same test as for SC (F)	Same frequency as SC (F)
F Sack (jute)	Physical Test	One for every 50 pieces
Rubble Concrete		
A Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregates	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Concrete	Same test as for SC (F)	Same frequency as SC (F)
F Rocks	Same test as for ROCKS	Same frequency as ROCKS
Earthworks		
A Sub-grade preparation	Grading Test Plasticity Test (LL,PL,PI) Laboratory Compaction Test	For every 1,500 cubic meter or fraction thereof
	Density Test	For every layer of 150mm of compacted depth at least one group of three In-situ density test every 500 sq m or fraction thereof
B Structure Excavation	If excavated materials shall be used as Backfill Grading Test Plasticity Test (LL,PL,PI) Laboratory Compaction Test	For every 1,500 cubic meter or fraction thereof
	Density Test	For every layer of 150mm of compacted depth at least one group of three In-situ density test every 500 sq m or fraction thereof

Materials/Items of Work	***Required Tests***	***Minimum Incremental Frequency of Tests***
III Port Operations Building/Passenger Terminal Building/Transit Shed/Warehouse		
STRUCTURAL WORKS	Refer to Structural Concrete (SC) and Piling Works (P)	
ARCHITECTURAL WORKS		
Ceramic – Filled Liquid Membrane / Water Proofing, Hydrophobic Poreblocking Ingredients with Superplasticizer	Physical Property, Mechanical and Chemical Property, Leak Test / Flood Test	One per shipment
Paint	Quality Test	One 4-L can for every 100 cans or fraction thereof
Ceramic Tile	Inspection and Evaluation Report from the Engineer	One per shipment
Stainless Steel	Inspection and Evaluation Report from the Engineer	One per shipment
Roofing Materials	Inspection and Evaluation Report from the Engineer	One per shipment
Ceiling Materials	Inspection and Evaluation Report from the Engineer	One per shipment
ELECTRICAL AND MECHANICAL WORKS		
Wires / Cables	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment
Electrical Devices	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment
Fire Alarm System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Wiring Devices	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment

Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
Protective Devices	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment
Telephone System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
CCTV System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
CATV System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Background Music and Paging System	Inspection and Evaluation Report from the Engineer, Testing and Commissioning	One per item
Air Conditioning Units & Ventilation	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Conduit Pipes	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Lighting Fixtures	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
PLUMBING WORKS		
Pipes	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item

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Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
Fixtures	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Pipe Culverts	Compression Strength Inspection and Evaluation Report from the Engineer	For every size not more than 25 pipes cast in the field
IV Miscellaneous Materials Fencing A Barbed Wire, Cyclone Wire Mesh, Chain Link B Concrete Post	Physical Test (Dimensions and Coatings) Refer to Superstructure (SC)	One per Batch Refer to Superstructure (SC)
Lamp Post A Structural Steel B Zinc (Hot Dip Galvanizing) Coatings	Physical Test (Dimensions) Same test as for SC (E) Same test as for CJ (C)	All units One per batch
Drainage Steel Grating	Same test as for SC (E) Inspection Report	One (1) batch
Metal Pipe (Cast Iron Galvanized, etc)	Physical Test (Dimensions and Coatings)	1 per delivery
Welding Works	Destructive and Non Destructve Test	One (1) per lot

NOTES
1. **Testing of RDF shall be performed only by an independent Testing Laboratory duly accredited by BRS, DOST and PPA**
2. **Testing of other materials shall be performed only by an independent Testing Laboratory duly accredited by BRS and PPA.**
3. **All other issuances which are otherwise inconsistent herewith are hereby revoked or otherwise amended.**

Approved

RAUL T. SANTOS
Officer-In-Charge,
Office of the General Manager

SECTION IX

CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages)

Technical Documents

☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

☐ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**

☐ (d) Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**

☐ (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**

(f) Project Requirements, which shall include the following:

☐ a. Organizational chart for the contract to be bid;

☐ b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;

☐ c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**

☐ (g) Original duly signed Omnibus Sworn Statement (OSS);
and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

☐ (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

☐ (i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;
or
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

☐ (j) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

☐ (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**

☐ (l) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**

☐ (m) Cash Flow by Quarter.

SECTION X

BIDDING FORM

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____
Project Identification No. : _____

To: **Philippine Ports Authority**
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers _____, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: **Proposed Construction of RC Pier, RORO Ramp, Perimeter Fence, Gate and Guard House, Port of Himamaylan, Himamaylan City, Negros Occidental**;

b. We offer to execute the Works for this Contract in accordance with the PBDs;

c. The total price of our Bid in words and figures, excluding any discounts offered below is: _____;

d. The discounts offered and the methodology for their application are: _____;

e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,

f. Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;

g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines[1] for this purpose;

h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;

i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between

[1] currently based on GPPB Resolution No. 09-2020

us, until a formal Contract is prepared and executed; and

j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the **Proposed Construction of RC Pier, RORO Ramp, Perimeter Fence, Gate and Guard House, Port of Himamaylan, Himamaylan City, Negros Occidental**.

l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

STATEMENT OF THE BIDDER'S ALL ONGOING GOVERNMENT AND PRIVATE CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

I hereby declare that all ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid are listed below:

Name of outstanding Contracts 1]	Owner's Name and Address	Scope of Work 2]	Contractor's Role and Percentage of Participation 3]	Total Contract Amount or Value 4]	Date of Contract and NOA 5]	Value of Outstanding Works 6]	Accomplishment (in percentage, %) 7]		Contract Duration 8]	
							Planned	Actual	Start of Project	Estimated Completion Date
A) Government Contracts i. On-going ii. Awarded but not yet started B) Private Contracts i. On-going ii. Awarded but not yet started										

NOTE:

1] As appearing in the contract executed by the parties.
2] With special reference to the Scope of Works of the Project as described/enumerated in the Contract.
3] Indicate the percentage of participation and whether as Sole Contractor, Sub-Contractor or Member in a Joint Venture / Consortium.
4] Indicate the FOREX used if Contract Value is expressed in a currency other than the Philippine Peso.
5] As appearing in the Contract and Notice of Award (NOA).
6] Amount or value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.
7] Percentage of Accomplishment as of the preceding month which should not be earlier than two (2) months from the date of bid submission.
8] As appearing in the Notice to Proceed and Contract.

This Statement shall be supported by:

a) Notice of Award
b) Notice to Proceed and Contract

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

Revised: September 2021

STATEMENT OF THE BIDDER'S SINGLE LARGEST COMPLETED CONTRACT (SLCC) SIMILAR TO THE CONTRACT TO BE BID

Name of the completed Contract 1]	Owner's Name and Address	Scope of Work 2]	Contractor's Role and Percentage of Participation 3]	Total Contract Value At 4]			Date of Award 5]	Contract Duration 6]	
				Award	Completion	Escalated Value to Present Prices		Start	Completed

NOTE :

1] As appearing in the contract executed by the parties.
2] With special reference to the Scope of Works of the Project as described/enumerated in the Contract.
3] Indicate the percentage of participation and whether as Sole Contractor, Sub-Contractor or Member In a Joint Venture / Consortium.
4] Indicate the FOREX used if Contract Value is expressed in a currency other than the Philippine Peso. Attached the computation for the escalated contract value.
5] As appearing in the Notice of Award.
6] As appearing in the Notice to proceed and Certificate of Completion.

A. The bidder must have an experience of having completed a SLCC that is similar to the contract to be bid equivalent to at least fifty percent (50%) of the ABC, adjusted if necessary, by the Bidder to current prices using the PSA consumer price indices. A contract is considered to be "similar" to the contract to be bid if it has the same Major Categories of Work as stated in the Bid Data Sheet (BDS).
B. This Statement shall be supported by:
   a. Notice of Award, Notice to Proceed and Contract.
   b. Project Owner's Certificate of Final Acceptance issued by the owner and/ or Constructors Performance Evaluation System (CPES) Final Rating, which must be at least Satisfactory. The said Certificate of Acceptance shall contain the following: 1) Name of project owner that issued the certificate, 2) Name of Contractor/ Constructor, 3) Name of Contract, and 4) Contract Duration.
   c. Recapitulation or Final Bill of Quantities.

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

Revised: September 2021

STATEMENT OF THE BIDDER'S EXPERIENCE ON MAJOR CATEGORIES OF WORK OF THE SLCC INCLUDING OTHER COMPLETED CONTRACTS SIMILAR TO THE CONTRACT TO BE BID

Major Categories of Work 1]	Unit of Measure 1]	Quantity 1]	SLCC similar to the contract to be bid 2]	Other completed contracts similar to the contract to be bid 2]			Unit of Measure 2]	Quantity 2]
			Name of the contract	Name of the contract	Name of the contract	Name of the contract		
1. Pile Driving Works (Offshore)	l.m.	1350						
2. Concrete Works	cu.m.	670						

NOTE:
1] As stated in the Bid Data Sheet.
2] As appearing in the Recapitulation and/ or Final Bill of Quantities.
This statement shall be supported by:

a. Notice of Award, Notice to Proceed and Contract.
b. Project Owner's Certificate of Final Acceptance issued by the owner and/ or Constructors Performance Evaluation System (CPES) Final Rating, of at least satisfactory. The said Certificate of Acceptance shall contain the following: 1) Name of project owner that issued the certificate, 2) Name of Contractor/Constructor, 3) Name of Contract, and 4) Contract Duration.
c. Recapitulation and/ or Final Bill of Quantities.

Name of Firm	Name of Bidder/Authorized Representative Signatory's Legal Capacity	Date

Revised: September 2021

FINANCIAL DATA

A. The prospective bidder's audited Financial Statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "RECEIVED" by the Bureau of Internal Revenue (BIR), or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.

	Year
1. Total Assets	
2. Current Assets	
3. Total Liabilities	
4. Current Liabilities	
5. Net worth (1-3)	
6. Net Working Capital (2-4)	

B. The computation of the bidders Net Financial Contracting Capacity (NFCC) must be at least equal to the ABC to be bid, as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.

NFCC = _____

Attached herewith are certified true copies of the audited financial statements stamped received by the BIR or BIR authorized collecting agent for the latest/immediately preceding calendar year.

_____
Name of Firm/Applicant

_____
Authorized Signing Official

Date:_____

NOTES:

If Partnership or Joint Venture, each Partner or Member Firm of Joint venture shall submit separate financial statements.

STATEMENT OF THE BIDDER'S KEY PERSONNEL PLEDGED FOR THE CONTRACT TO BE BID

I hereby declare that the following key personnel are qualified and available for the duration of the contract to be bid:

Position of Key Personnel 1]	Name	No. of Key Personnel	Similar Experience in the Position (Years) 2]	Total Experience in the Position (Years)	Attachment(s)	Annex(es)
Project Manager					PRC License (CE Preferred) Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Project Engineer					PRC License (CE Preferred) Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Materials Engineer I					PRC License (CE Preferred) Submit Valid and Renewed DPWH Certificate of Accreditation Submit Accreditation Identification Card as Materials Engineer Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Construction Safety and Health Officer					Certificate of Safety and Health Construction Related Course issued by DOLE Accredited Trainings Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Foreman					Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Other Position(s)					Complete Qualification and Experience Data Certificate of Commitment	Annex "_"

NOTE: 1] As stated in the Bid Data Sheet
2] The number of years of experience of the key personnel shall be as indicated in the qualification and experience data or curriculum vitae.

Minimum qualification requirements: The key personnel must have a work experience that is similar in nature and complexity to the contract to be bid.

Project Manager - Five (5) years
Project Engineer - Three (3) years
Foreman - Five (5) years
Construction Safety and Health Officer – One (1) year
Materials Engineer – One (1) year
Materials Engineer I – for projects costing up to 100M
Materials Engineer II – for projects costing more than 100M

_____ Name of Firm

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

_____ Date

Revised: September 2021

STATEMENT OF THE BIDDER'S EQUIPMENT PLEDGED FOR THE CONTRACT TO BE BID

I hereby declare that the following equipment are in good operating condition and available for the duration of the contract to be bid:

DESCRIPTION (Type, Model, Make)	No. of Unit(s)	Capacity/ Output 1]	Owned, Leased, and/or under purchased agreement 2]	Proof of Ownership/ Leased/ Under Purchase Agreement (Mark as Annex "A.....Z") 3]	OTHER INFORMATION (As Applicable)				
					Manufacturer	Engine Serial No.	Chassis No./ Name of Vessel	Location	Status

NOTE:

1] The unit of capacity of the pledged equipment shall be as indicated in the Proof of Ownership, i.e. GW (for crane barge), DWT (for deck barge and hopper barge), Ton (for crane, road roller and drop hammer), kg.-m/blow (for diesel hammer), cu.m. (for dump truck), hp (for tugboat, road grader, bulldozer and concrete vibrator), cfm (for compressor), gal (for water truck with pump), amp (for welding machine), bagger (for concrete mixer). If the capacity of the pledged equipment is not indicated in the Proof of Ownership/Leased Contract/Purchased Agreement, submit other proof of capacity such as specifications, brochures or other verifiable printouts indicating the model name, model number and other details of the equipment.

2] Indicate if the pledged equipment are owned, leased or under purchase agreement.

3] If the pledged equipment is owned, it should be in the name of the bidder. Submit proof of ownership, i.e. deed of sale, sales invoice, official receipt; For owned Water Truck, Dump Truck and Transit Mixer submit LTO Certificate of Registration and valid Official Receipt; For owned barge/tugboat, submit Marina Certificate of Ownership and valid Cargo Ship Safety Certificate.

If the pledged equipment is leased/under purchased agreement, submit the following:

For equipment under lease agreement:

a. certification of availability of equipment from the equipment lessor for the duration of the project
b. duly Notarized copy of lease contract
c. For Water Truck, Dump Truck, Cargo Truck and Transit Mixer submit LTO Certificate of Registration and valid Official Receipt

For equipment under purchase agreement:

a. certification of availability of equipment from the equipment vendor
b. duly Notarized copy of purchase agreement
d. For Water Truck, Dump Truck, Cargo Truck and Transit Mixer submit LTO Certificate of Registration and valid Official Receipt or copy of conduction sticker, whichever is applicable.

If the pledged barge/tugboat is leased/under purchase agreement, submit certification of availability of barge/tugboat from the equipment lessor/vendor for the duration of the project, and duly Notarized copy of leased contract/purchased agreement together with a copy of the Marina Certificate of Ownership and valid Cargo Ship Safety Certificate.

The Minimum Major Equipment Requirements are listed in Section 8, Annex 3.

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

Revised: September 2021

Omnibus Sworn Statement for Sole Proprietorship

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, _____, of legal age, [Civil Status], [Nationality], and residing at _____, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the sole proprietor or authorized representative of _____ with office address at _____;

2. As the owner and sole proprietor, or authorized representative of _____, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Proposed Construction of RC Pier, RORO Ramp, Perimeter Fence, Gate and Guard House, Port of Himamaylan, Himamaylan City, Negros Occidental** of the **Philippine Ports Authority**, as shown in the attached duly notarized Special Power of Attorney;

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. The owner or sole proprietor is not related to the Head of the Procuring Entity, Procuring Agent if engaged, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which include:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

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

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement for Partnership or Cooperative

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, _____, of legal age, [Civil Status], [Nationality], and residing at _____, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the duly authorized and designated representative of _____ with office address at _____;

2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Proposed Construction of RC Pier, RORO Ramp, Perimeter Fence, Gate and Guard House, Port of Himamaylan, Himamaylan City, Negros Occidental** of the **Philippine Ports Authority**, as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, Procuring Agent if engaged, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and

d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

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

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement for Corporation or Joint Venture

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, _____, of legal age, [Civil Status], [Nationality], and residing at _____, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the duly authorized and designated representative of _____ with office address at _____;

2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Proposed Construction of RC Pier, RORO Ramp, Perimeter Fence, Gate and Guard House, Port of Himamaylan, Himamaylan City, Negros Occidental** of the **Philippine Ports Authority**, as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, Procuring Agent if engaged, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

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

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID SECURING DECLARATION
Project Identification No.: _____

To: **Philippine Ports Authority**
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.

2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.

3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:

   a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
   b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
   c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month] [year]* at *[place of execution]*.

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

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

CONSTRUCTION METHODOLOGY

Name of Project : _____

Project Description : _____

Location : _____

MINIMUM SCOPE OF CONSTRUCTION METHODOLOGY

A. CONSTRUCTION OF RC PIER AND RORO RAMP

1. Supply and Deliver of RC Piles (6,000 psi concrete)
2. Handle, Pitch and Drive Batter RC Piles
3. Handle, Pitch and Drive Vertical RC Piles
4. Chipping of Driven RC piles up to Cut-off Elevation
5. Supply and Place 4000 PSI Concrete for the Superstructure
6. Supply and Install Reinforcing Steel Bars
7. Supply, Deliver and Install Mooring Bollard T Head (35 T, T-head) including Accessories
8. Supply, Deliver and Install six (6) sets of Rubber Dock Fender V type (V500x1500L) including Accessories; Install nine (9) sets of In stock Rubber Dock Fender V type (V500x1500L) including Accessories

B. CONSTRUCTION OF PERIMETER FENCE, GATE AND GUARD HOUSE

1. Excavation for Column and Wall Footing of Fence, Gate, and Guard Holes and Septic Vault
2. Fabrication and Installation of Formworks and Scaffolding
3. Supply and Install Reinforcing Steel Bars
4. Concrete Works
5. Masonry Works
6. Supply and Install of Guard House Roof Frame, Roofing and Sidewalk Canopy
7. Supply and Install of Fibercement Board Ceiling on Metal Furring Frame
8. Painting Works
9. Supply and Install of Guard House Doors, Windows and PPA Logo

10. Supply and Install of Floor Tiles

11. Fabrication and Installation of Steel Fence, and Gate Including Accessories

12. Supply and Install of Plumbing Fixtures, Water Line, Sanitary Line and Septic Vault

13. Supply and Install Electrical Line and Fixtures

NOTES:

The narrative construction method will guide and familiarize the contractor and the PPA on how the project shall be carried out in accordance with the highest standard of workmanship.

The construction method shall be consistent with the Bar Chart / S-Curve Schedule, Equipment Schedule and Manpower Schedule.

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

Revised: September 2021

MANPOWER SCHEDULE

Name of Project : _____

Project Description : _____

Location : _____

MANPOWER (Minimum)	CONTRACT DURATION (_____ Calendar Days)																			
	MONTHLY																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Project Manager																				
Project Engineer																				
Materials Engineer I																				
Construction Safety and Health Officer																				
Foreman																				
Specify other applicable positions, ie.:																				
- Carpenter																				
- Steelman																				
- Mason																				
- Electrician																				
- Rigger																				
- Others																				

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

Revised: September 2021

EQUIPMENT UTILIZATION SCHEDULE

Name of Project : _____

Project Description : _____

Location : _____

EQUIPMENT (Minimum)	No. of Units	CONTRACT DURATION (____ Calendar Days)																		
		M O N T H L Y																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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

Revised: September 2021

CASHFLOW BY QUARTER AND PAYMENT SCHEDULE

Name of Project: : _____

Project Description : _____

Location : _____

Project Duration (days or months)	Payment Schedule (Monthly, in Pesos)	Cash flow (Quarterly, In Pesos)
TOTAL		

NOTES

- The cash flow by quarter and payment schedule should be consistent with the Bar Chart and S-curve.
- Payment schedule shall not be more than once a month.

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

Revised: September 2021

Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT, made this _____ day of _____, _____ between **Philippine Ports Authority** with principal office at PPA Building, Bonifacio Drive, South Harbor, Port Area, Manila (hereinafter called the "Entity") and **[name and address of Contractor]** (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute **[name and identification number of contract]** (hereinafter called "the Works") and the Entity has accepted the Bid for **[contract price in words and figures in specified currency]** by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz.*:

   a. Philippine Bidding Documents (PBDs);
      i. Drawings/Plans;
      ii. Specifications;
      iii. Bill of Quantities;
      iv. General and Special Conditions of Contract;
      v. Supplemental or Bid Bulletins, if any;

   b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

   Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

   c. Performance Security;

   d. Notice of Award of Contract and the Bidder's conforme thereto; and

e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**

3. In consideration for the sum of **[total contract price in words and figures]** or such other sums as may be ascertained, **[Named of the bidder]** agrees to **[state the object of the contract]** in accordance with his/her/its Bid.

4. The **Philippine Ports Authority** agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

JAY DANIEL R. SANTIAGO General Manager	**Name of Bidder/ Authorized Representative** (Signatory's Legal Capacity)
for:	for:
Philippine Ports Authority	**Contractor**

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]