4. Welding

All welding shall be done only by welders certified as to their ability to perform in accordance with the accepted testing requirements.

Arc and Gas Welding in Building Construction of AWS, and shall only be done where specified, or permitted by the Engineer.

The welding machine shall be a stable welder and have suitable functions for the dimensions of materials to be welded. The auxiliary tools used for welding shall perform sufficiently and adequately.

The welding machine used for field welding shall be readily adjustable for electric current.

5. Shop Assembly
Structural units furnished shall be assembled in the shop. An inspection shall be made to determine that the fabrication and the matching of the component/ parts are correct.

Approval of the Engineer shall be required when drilling temporary bolt holes or welding temporary support to the assembled structure.

The tolerances shall not exceed those allowed by codes, and each unit assembled shall be
closely checked to ensure that all necessary clearances have been provided and that binding
does not occur in any moving part.

In order to maintain accurate finished dimensions and shape, appropriate reverse strain or restraint shall be provided as required. Assembly and disassembly work shall be performed in the presence of the Engineer, unless waived in writing by the Engineer. Any errors or defects discovered shall be immediately remedied by the Contractor.

FABRICATION TOLERANCES

1. Dimensional Tolerances for Structural Work

Dimensions shall be measured by means of an approved calibrated steel tape at the time of inspection. Unevenness of plate work shall not exceed the limitation of the standard mill practice as specified in the American Institute of Steel Construction, "Manual of Steel Construction".

INSPECTION AND TEST OF WELDING
1. Inspection of Welding

Inspection of welding shall be executed for the following work phases.

a. Before Welding

Scum, angle of bevel, root clearance, cleaning of surface to be welded, quality of end tab, and drying of welding rod.

b. During Welding

Welding procedure, diameter of coil and wire, type of flux, welding current and voltage, welding speed, welding rod position, length of arc, melting, cleaning of slag of each level under surface chapping, supervision of welding rod.

c. After Execution of Welding

Assurance of bead surface, existence of harmful defects, treatment of crater, quality of slag removal, size of fillet, dimension of extra fill of butt welding, and treatment of end tab.

2. Testing of Welding. Twenty percent (20%) of welds contribute to the overall strength of the structure, and those that will be inaccessible for inspection in service shall be tested.

Welding shall be tested by an ultrasonic test to the extent specified herein or as directed by the Engineer.

Where partial inspection is required, the ultrasonic test shall be located at random on the welds so as to indicate typical welding quality.

If ten percent (10%) of the random ultrasonic tested indicate unacceptable defects, the remaining eighty percent (80%) of the welding shall be tested. Repair welding required shall be ultrasonic tested after the repairs are made.

CORRECTIONS

In lieu of the rejection of an entire piece or member containing welding that is unsatisfactory or that indicates inferior workmanship, corrective measures may be permitted by the Engineer, whose specific approval shall be obtained for making each correction. Defective or unsound welds or base steel shall be corrected either by removing and replacing the entire weld or as follows.

1. Excessive convexity or overlap shall be reduced by grinding.

2. Undercuts, lack of weld, shall be repaired with the necessary reinforcement of weld after removal of any foreign materials such as slag, dust, oil, etc.

3. Any defects such as slag inclusions, incomplete fusion, or inadequate joint penetration, shall be completely removed, cleaned, and re-welded.

4. Cracks in welds or base steel shall be removed to sound steel throughout their length and 5cm beyond each end of the crack, followed by welding. The extent of the crack, depth, and length shall be ascertained by the use of add etching, magnetic partied.

ITEM 2.06: SUPPLY AND INSTALL 35T AND 25T MOORING BOLLARDS INCLUDING ACCESSORIES

SCOPE OF WORK

The work shall include furnishing of all labor, materials, equipment, and other incidentals necessary to complete the supply and installation of mooring cleat, including its complete accessories in accordance with the sizes, distances, and design shown on the Drawings and as directed by the PPA Engineer.

Design and manufacturer Requirements

Designated load capacity of mooring cleats shall be as shown on the drawings and shall be referred to as the safe working load. The mooring bollards shall be capable of withstanding a proof test load of 1.5 times the safe working load.

Mooring bollard shall be of the dimensions, weights, capacities, and designs in accordance with shop drawings approved by the Engineer and shall be fabricated by an approved manufacturer with cast steel conforming to the requirements indicated in the plan/drawings, or approved equivalent.

The size of the bolts, nuts, and washers shall be in accordance with the specification provided in the plan/drawings. The anchor plate shall be connected to the holding down bolt as shown in the drawings. All bolts, nuts, washers, etc. that are exposed shall be galvanized to the satisfaction of the Engineer.

Samples of the bolts, nuts, washers, and anchor plates shall be submitted to the Engineer for approval before being used in the works.

Concrete foundation for mooring bollards shall conform to the requirements "Reinforced Concrete"

Visual Inspection

All mooring bollards delivered to site shall be inspected by the Engineer for any sign of flaws or defects inimical to usage.

Mill Test Certificates

Two (2) copies of mill test reports shall be submitted certifying that materials meet the specified standards.

Test Inspection

Inspection of all materials and methods of fabrication shall be carried out by the contractor. However, the Engineer reserves the right to inspect all facilities at any time during the manufacture to ensure that the materials and workmanship are in accordance with Specifications and the best of workmanship.

ITEM 2.07 : PROJECT BILLBOARD

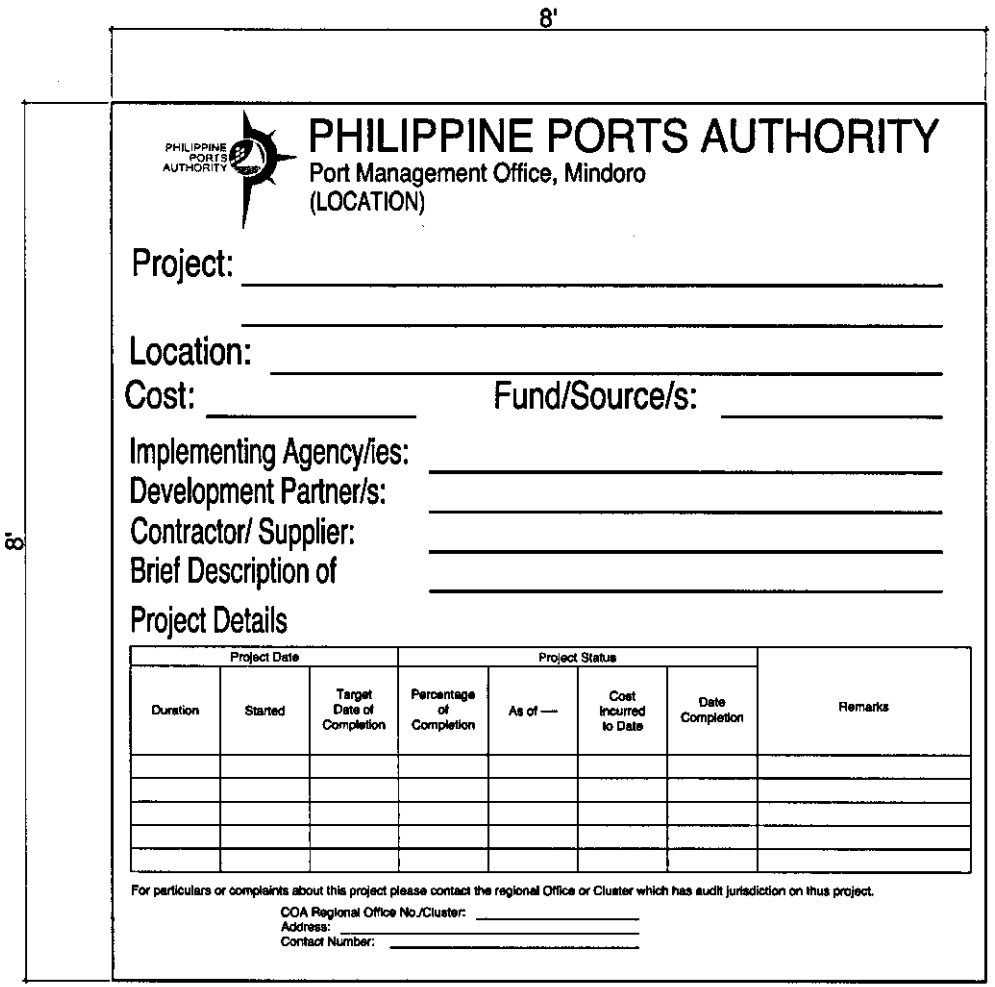
SPECIFICATION

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

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

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

See attached drawings for further details of the standard billboard.



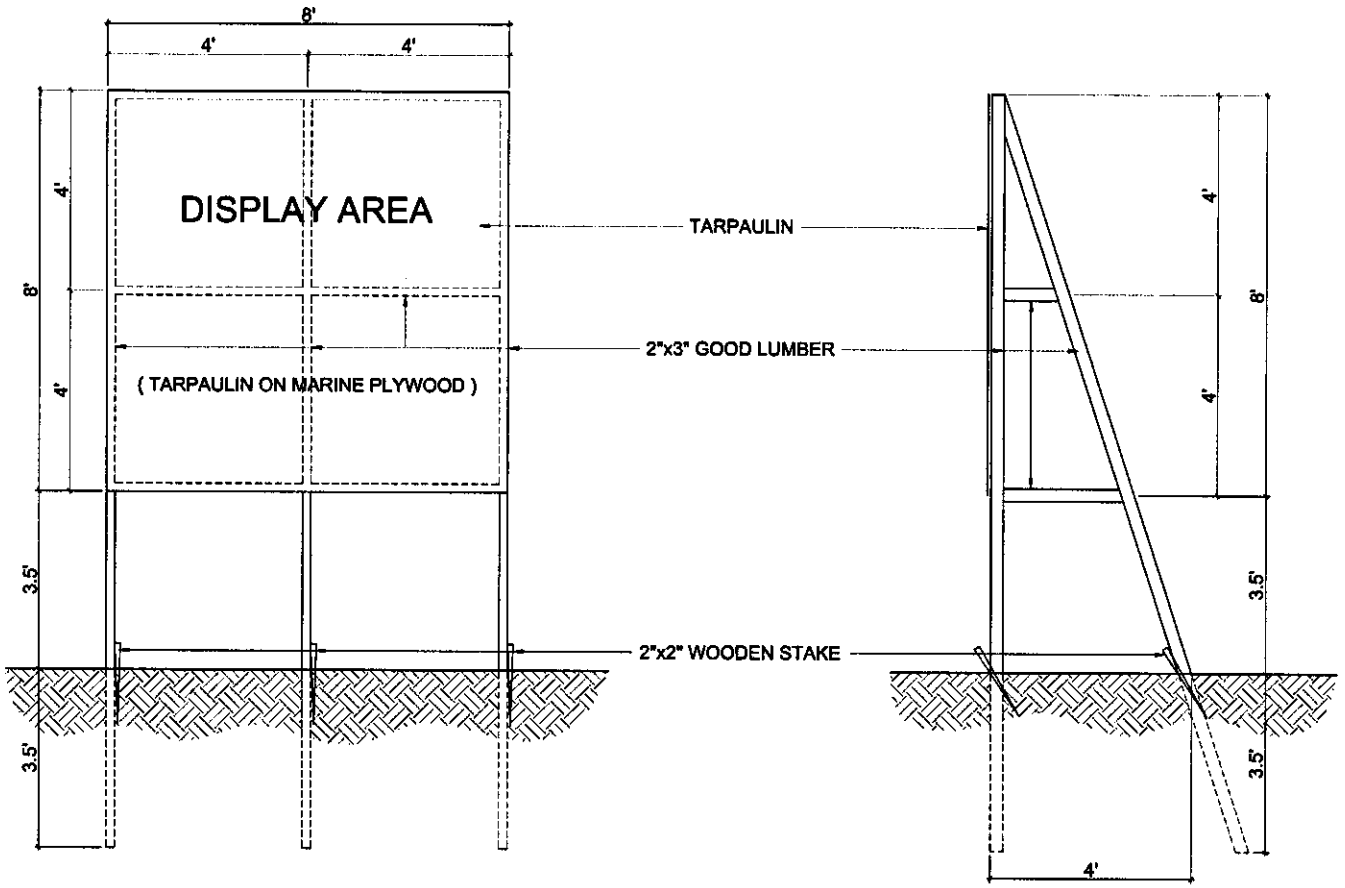
WHITE BACKGROUND
COLOR SHADE COMBINATION

CYAN	:	0
MAGENTA	:	7
WHITE	:	78
KEY	:	0

NOTE:

FONT: HELVETICA
FONT SIZE: MAIN INFORMATION 3"
SUB INFORMATION 1"
FONT COLOR: BLACK

STANDARD PROJECT BILLBOARD



BILLBOARD FRAME DETAILS

SCALE NTS.

ITEM 2.08 : SAFETY SIGNAGES AND BARRICADES

DESCRIPTION

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

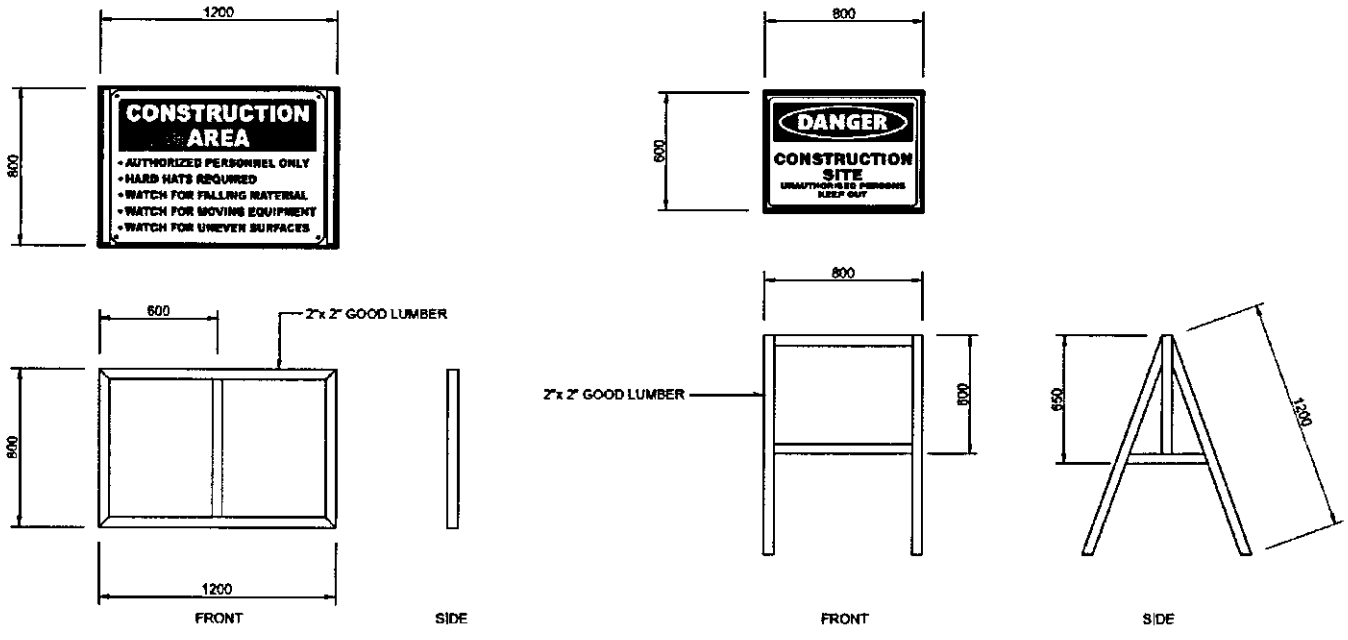
SPECIFICATION

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

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

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

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



STANDARD PLAN FOR SIGNAGES AND BARRICADES

SECTION VII

DRAWINGS
(APPROVED PLANS)

SECTION VII

DRAWINGS AND APPROVED PLANS
(SEE ISSUED APPROVED PLANS)

LIST OF DRAWINGS:

1 of 15 - Port Layout Plan

2 of 15 - Framing Plan of Existing Roro Ramp

3 of 15 - Propose Framing Plan of Roro Ramp

4 of 15 - Section "A-1, A-2" Detail and Section Detail of Roro Ramp

5 of 15 - Section "A-3, A-4" Detail and Section Detail of Roro Ramp

6 of 15 - Plan of Proposed Roro Ramp Protection

7 of 15 - Fender Connection Detail, Roro Ramp Front and Side Elevation, Roro Ramp Location of Fenders

8 of 15 - Detail of Anchor Bolt, Detail of Rubber Dock Fender

9 of 15 - Location Plan of Fendering and Mooring System to be repaired

10 of 15 - Typical Front and Side Elevation of Cylindrical Rubber Dock Fender

11 of 15 - Typical Detail Fender of Fender Connection, Front and Side Sectional View of Cylindrical Rubber Dock Fender

12 of 15 - Typical Reinforcement of Bollard Block, 25t Mooring Bollard Detail, Bollard Block Plan

13 of 15- Location Plan of Fendering System, Typical Front Elevation of Ramp no. 4&5

14 of 15- Location Plan of Fendering System, Detail of Rubber Dock Fender, Detail of Anchor Bolt

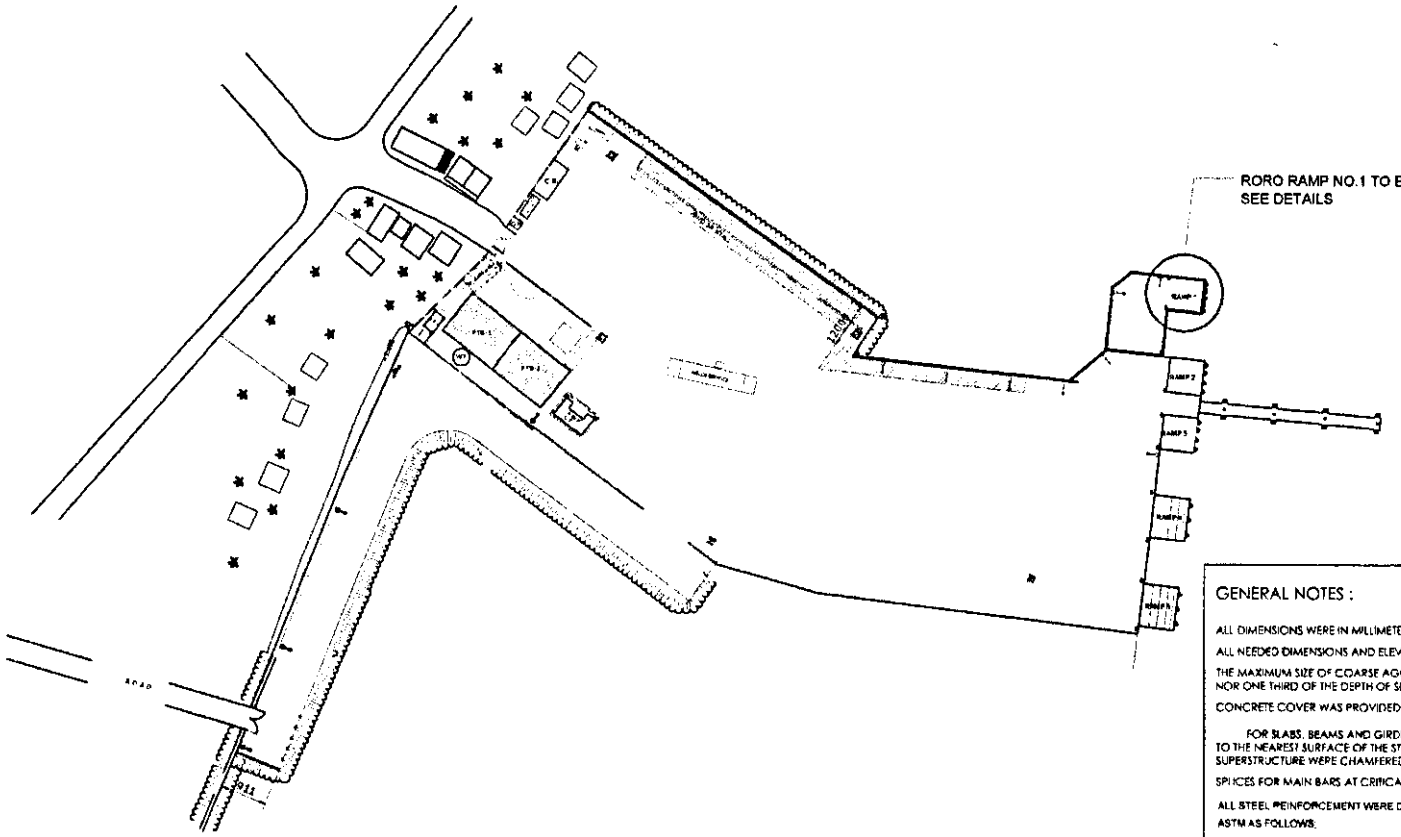
15 of 15- Structural Notes, Detail of Mooring Block, 35 Ton Mooring Tee Head, Anchor Bolt

PHILIPPINE PORTS AUTHORITY

PMO- MINDORO

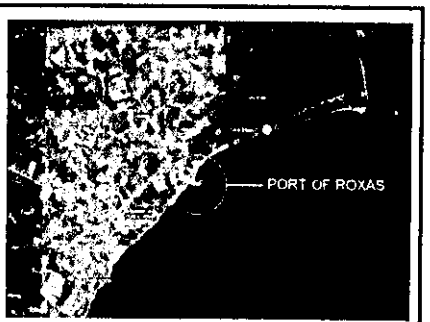
RESTORATION OF RORO RAMP NO. 1 AND FENDERING SYSTEM

PORT OF ROXAS, ORIENTAL MINDORO



PORT LAYOUT PLAN
PORT OF ROXAS
ORIENTAL MINDORO

SCALE : 1:1000 M



VICINITY MAP

SCALE NTS

GENERAL NOTES :

ALL DIMENSIONS WERE IN MILLIMETER AND ELEVATIONS WERE IN METER BASED FROM M.L.L.W. ELEVATION 0.00m UNLESS OTHERWISE SPECIFIED.

ALL NEEDED DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES IN THE FIELD WERE VERIFIED.

THE MAXIMUM SIZE OF COARSE AGGREGATES WERE NOT LARGER THAN ONE FIFTH OF THE NARROWEST DIMENSION OF THE BEAMS, NOR ONE THIRD OF THE DEPTH OF SLABS, NOR THREE QUARTERS OF THE MINIMUM CLEAR DISTANCE BETWEEN REINFORCING BARS.

CONCRETE COVER WAS PROVIDED AS FOLLOWS :

FOR SLABS, BEAMS AND GIRDERS 100mm ON TOP AND 75mm ON UNDERSIDE, MEASURED FROM THE OUTER SURFACE OF THE CONCRETE TO THE NEAREST SURFACE OF THE STEEL. THE EDGES OF BEAMS, PILE CAPS, CURTAIN WALLS, R.C. CURB AND ALL OTHERS PARTS OF THE SUPERSTRUCTURE WERE CHAMFERED BY AT LEAST 25mm.

SPLICES FOR MAIN BARS AT CRITICAL SECTION THAT FOUND NECESSARY WERE PROVIDED A MINIMUM LAP OF 40 x BAR DIAMETER.

ALL STEEL REINFORCEMENT WERE DEFORMED BARS AND SHALL CONFORM TO ASTM AS FOLLOWS;

16MMØ AND ABOVE---ASTM 305, MIN. YIELD STRENGHT OF 414 MPA (GRADE 60)
12MMØ AND BMALLER---ASTM A615-74a, MIN. YIELD STRENGHT OF 275MPA (GRADE40)

SPLICE BARS WERE JOINED TOGETHER BY FILLET ELECTRIC WELD IN WHICH CASE THE LAP WERE AT LEAST 75mm. WELDING WERE CONTINUOUS THROUGHOUT THE LENGTH OF LAP.

ALL INTERSECTION OF REINFORCING BARS WERE ELECTRICALLY SPOT WELDED IN LIEU OF TYING THEM WITH G.I. WIRES WELDING ELECTRODES WERE SHIELDED ARC TYPE HEAVILY COATED WITH CLASSIFICATION No. E6010 OR 6011OF THE AMERICAN WELDING SOCIETY AND WERE SUITABLE FOR THE POSITIONS AND OTHER CONDITIONS OF INTENDED USE. DIMENSIONS OF STEEL REINFORCEMENT WERE TAKEN ON CENTER OF BARS. BAR DETAILS WERE NOT TO SCALE.

HOOKS WERE PROVIDED AT OUTER ENDS OF TOP BARS ALONG EXTERIOR BAYS. HOOKS OF BARS HAD A MINIMUM DIAMETER OF 4 TIMES THE DIAMETER ON SIDES OF BARS. DRAIN AND AIR HOLES WERE PROVIDED AS INDICATED IN THE PLAN.

CONCRETE STRENGTH (f'c) USED WAS 24.14MPa (3,500psi) UNLESS OTHERWISE SPECIFIED.

ROCKS USED HAD A MINIMUM SPECIFIC GRAVITY OF 2.65, ANGULAR IN SHAPE, HARD, DURABLE, NOT EASILY DISINTEGRATE UNDER LONG EXPOSURE TO SEA WATER AND FREE FROM THE ACTION OF AIR, SEAWATER OR IN HANDLING AND PLACING.

REFERED TO TECHNICAL SPECIFICATIONS OF BID DOCUMENTS FOR MORE DETAILS/SPECIFICATIONS.

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

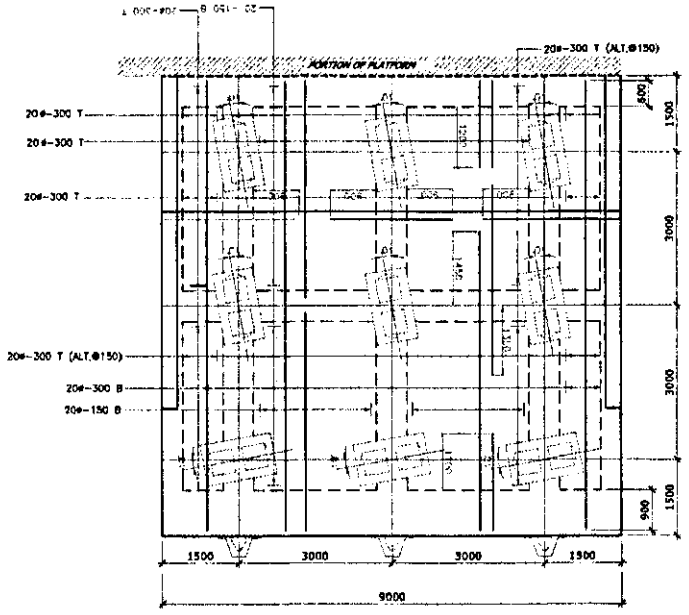
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SCALE: AS SHOWN

PREPARED BY:	SUBMITTED BY:	CHECKED / REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:
FERNANDO J. GALVEZO	MARC JED E. DAPITO	RONALD O. MATIBAG	MARGARITO P. DIMAILIG	JON GABRIELL M. MANANSALA
Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager A, ESD	Port Manager A

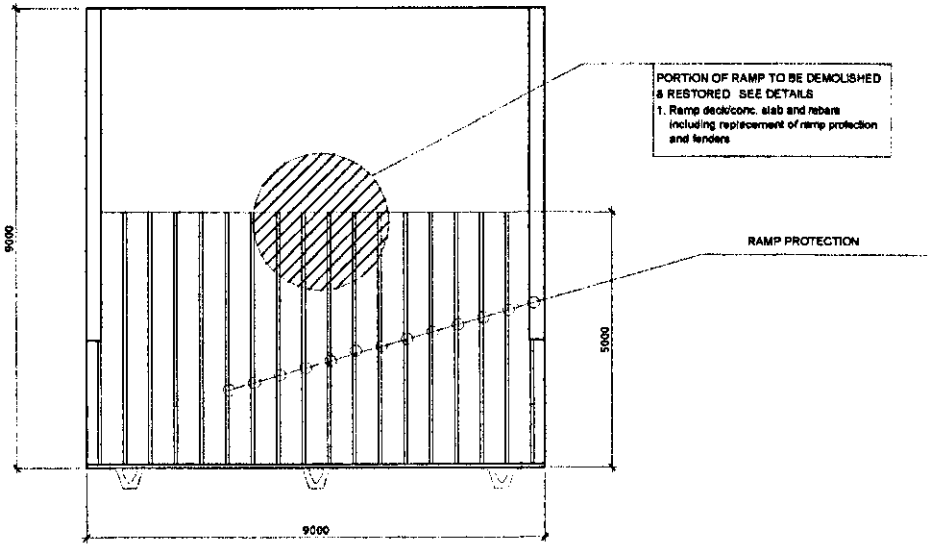
SHEET NO. 1 of 15

DATE : 21 nov 2024



FRAMING PLAN OF EXISTING RORO RAMP NO. 1

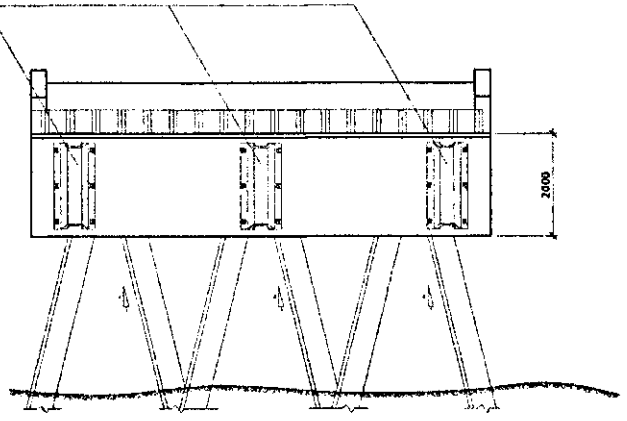
SCALE 1:100 M



PLAN OF EXISTING RAMP PROTECTION

SCALE 1:100 M

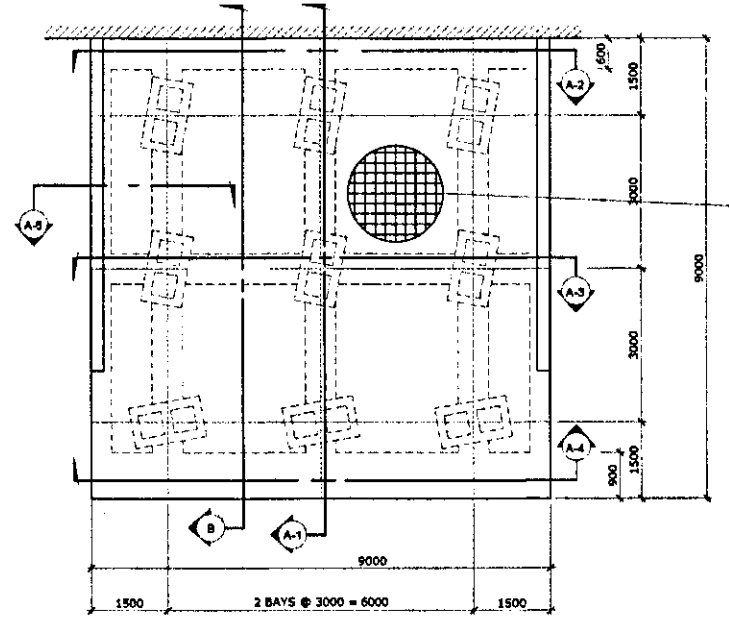
V-TYPE V400 X 1500 RDF
TO BE REMOVED



RORO RAMP FRONT ELEV.

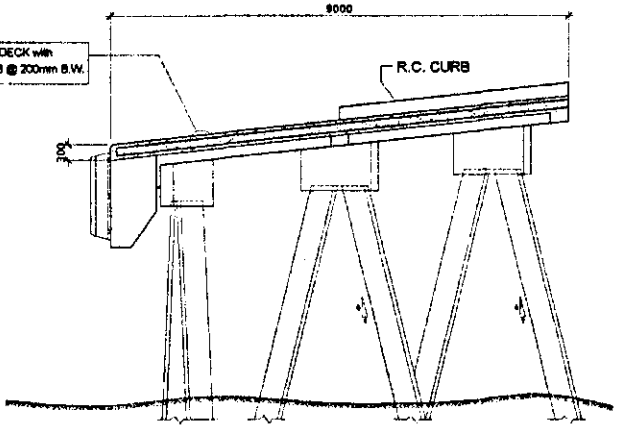
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PHILIPPINE PORTS AUTHORITY PMO- MINDORO	PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM PORT OF ROXAS, ORIENTAL MINDORO				SHEET CONTENTS:	SCALE: AS SHOWN
	PREPARED BY: FERNANDO J. GALVEZO, Engineering Assistant A	SUBMITTED BY: MARQUEDE E. DAPITO, Engineer III	CHECKED / REVIEWED BY: RONALD G. MATIBAG, Acting Principal Engineer A	RECOMMENDING APPROVAL: MARGARITO P. DIMAILIG, Division Manager A, ESD	APPROVED: JON GABRIELL M. MANANSALA, Port Manager A	AS SHOWN	SHEET NO. 2 of 15
						DATE : 21 nov 2024



PROPOSED FRAMING PLAN OF RORO RAMP

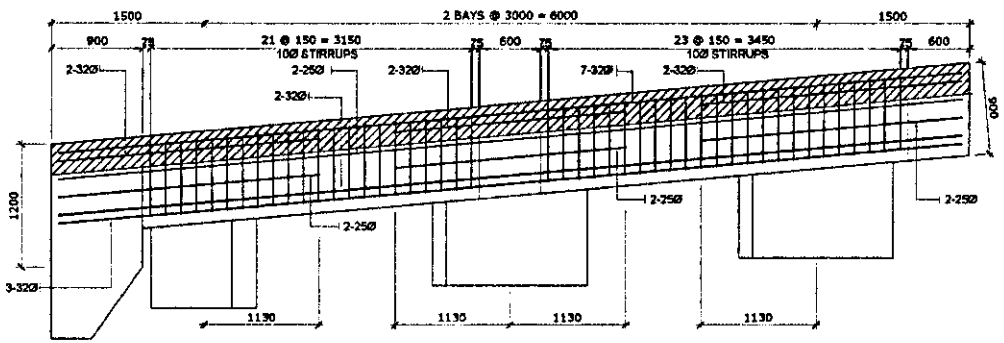
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SECTION THRU "B"
DETAIL OF RAMP DECK

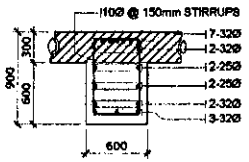
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PHILIPPINE PORTS AUTHORITY PMO- MINDORO	PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM PORT OF ROXAS, ORIENTAL MINDORO				SHEET CONTENTS:	SCALE: AS SHOWN
	PREPARED BY: FERNANDO J. GALVEZO, Engineering Assistant A	SUBMITTED BY: MARCJED E. DAPITO, Engineer III	CHECKED / REVIEWED BY: RONALD O. MATIBAG, Acting Principal Engineer A	RECOMMENDING APPROVAL: MARGARITO P. DIMAILIG, Division Manager A, ESD	AS SHOWN	SHEET NO. 3 of 15
				APPROVED: JON GABRIELL M. MANANSALA, Port Manager A		DATE : 21 nov 2024



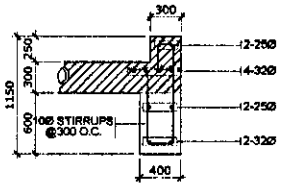
SECTION A-1

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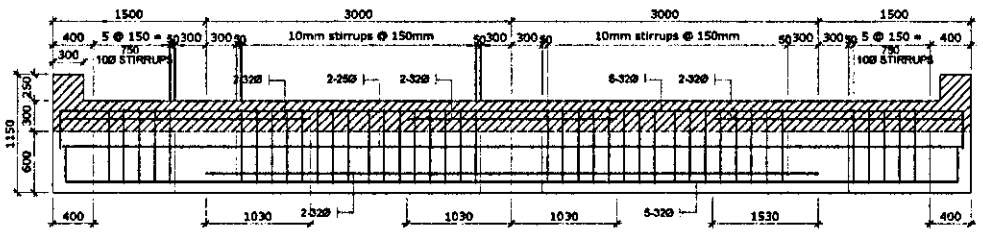
TYPICAL A

SCALE 1 : 50



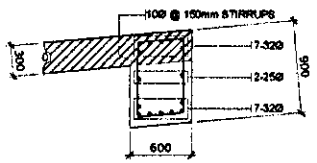
SECTION A-5

SCALE 1 : 50



SECTION A-2

SCALE 1 : 50



TYPICAL B

SCALE 1 : 50

LEGEND:

PORTION OF RAMP SLAB/DECK & BEAMS TO BE DEMOLISHED AND RESTORED INCLUDING R.C. CURB

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

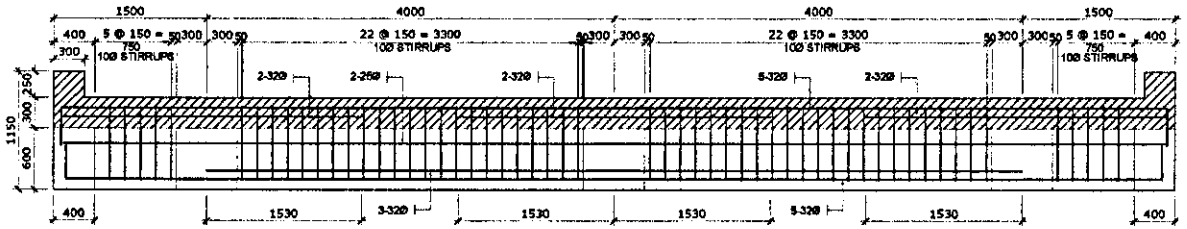
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SCALE: AS SHOWN

SHEET NO. 4 of 15

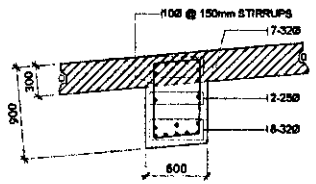
DATE : 21 nov 2024

PREPARED BY:	SUBMITTED BY:	CHECKED / REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:
FERNANDO J. GALVEZO	MARC JED B. DAPITO	RONALD O. MATIBAG	MARGARITO P. DIMAILIG	JONI GABRIELL M. MANANSALA
Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager A, ESD	Port Manager A



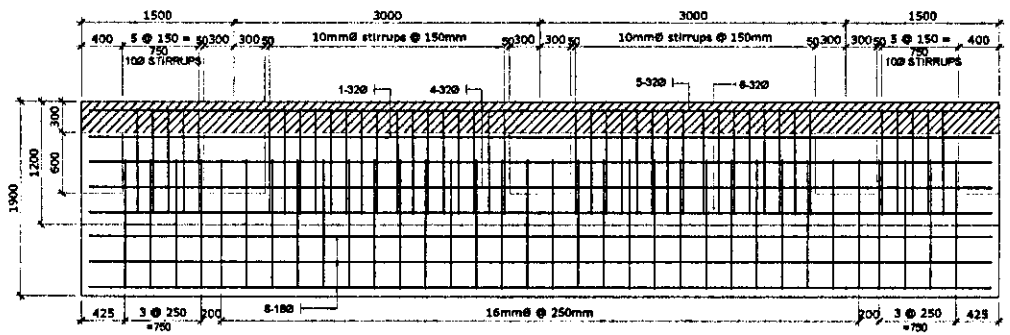
SECTION A-3

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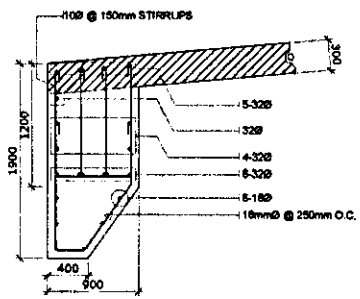
TYPICAL C

SCALE 1 : 50



SECTION A-4

SCALE 1 : 50



TYPICAL D

SCALE 1 : 50

LEGEND:

PORTION OF RAMP SLAB/DECK & BEAMS TO BE DEMOLISHED AND RESTORED

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

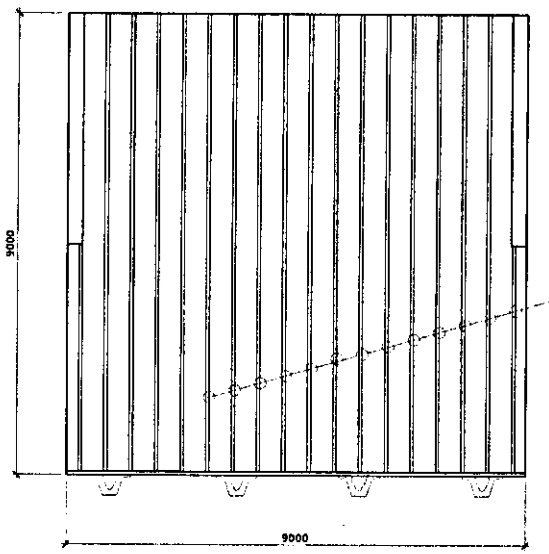
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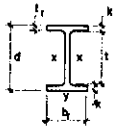
SHEET NO. 5 of 15

DATE : 21 nov 2024

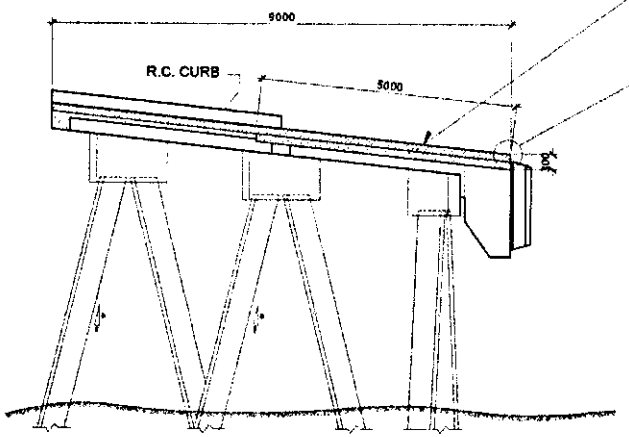
PREPARED BY:	SUBMITTED BY:	CHECKED / REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED :
FERNANDO J. GALVEZO	MARCJIED E. DAPITO	RONALD O. MATIBAG	MARGARITO P. DIMAILIG	JON GABRIELL M. MANANSALA
Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager A, ESD	Port Manager A



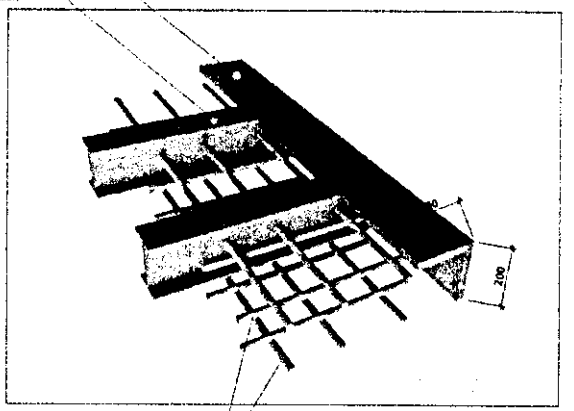
PLAN OF PROPOSED RORO RAMP PROTECTION
SCALE 1:100 M



DESIGNATION	DEPTH	WEB	FLANGE		DISTANCE
nominal depth (mm) x nominal weight (kg/m)	d (mm)	Thickness t_w (mm)	Width b_f (mm)	Thickness t_f (mm)	DISTANCE k (mm)
W150 x 37.1	162	8.1	154	11.6	21



SECTION / SIDE ELEVATION
SCALE 1:100 M



PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

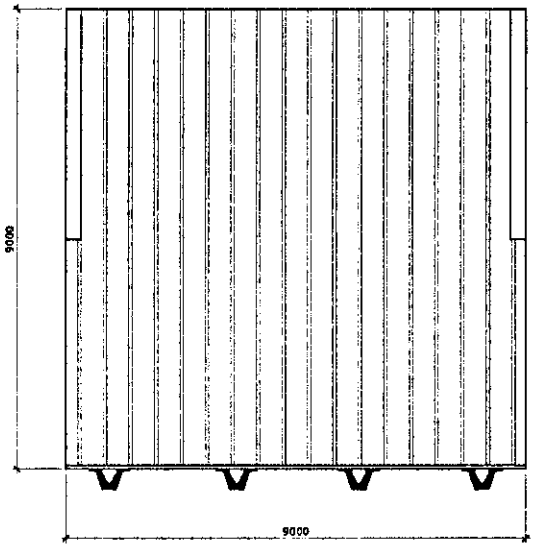
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SCALE: AS SHOWN

SHEET NO. 6 of 15

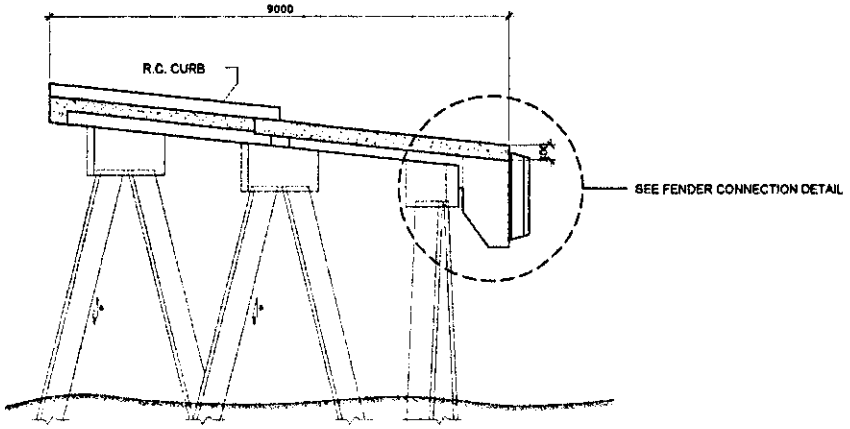
DATE : 21 nov 2024

PREPARED BY:	SUBMITTED BY:	CHECKED / REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:
FERNANDO J. GALVEZO	MARC JED E. DAPITO	RONALD O. MATIBAG	MARGARITO P. DIMAILIG	JON GABRIELL M. MANANSALA
Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager A, ESD	Port Manager A



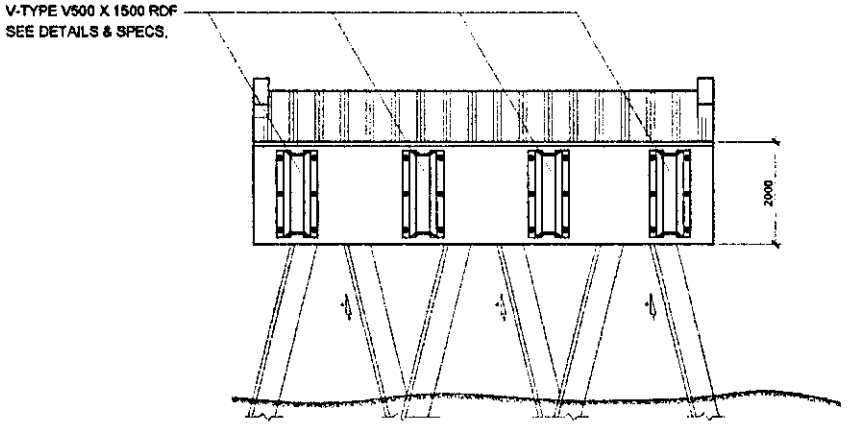
PLAN OF RORO RAMP SHOWING LOCATION OF FENDERS

SCALE 1:100 M.



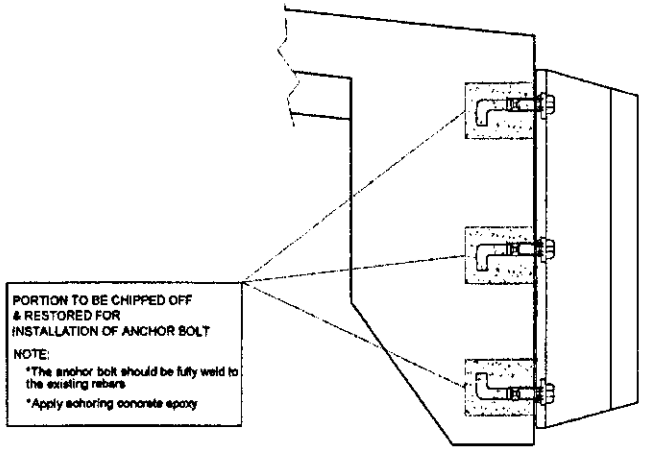
SECTION / SIDE ELEVATION

SCALE 1:100 M.



RORO RAMP FRONT ELEV.

SCALE 1:100 M.



FENDER CONNECTION DETAIL

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

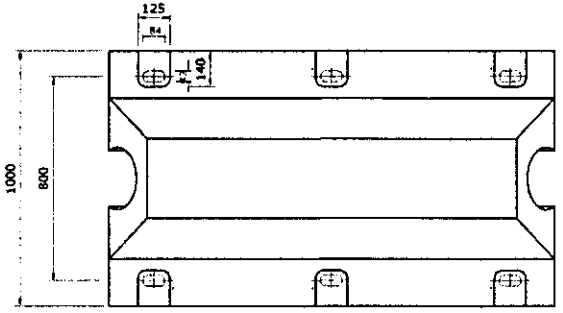
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SCALE: AS SHOWN

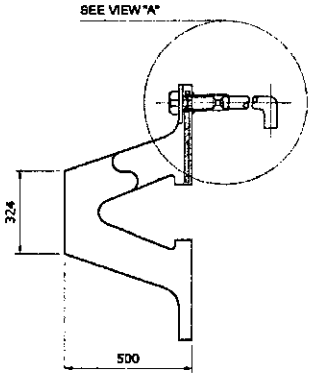
SHEET NO. 7 of 15

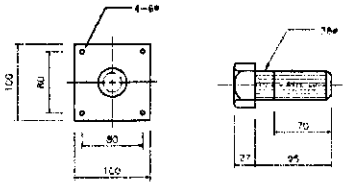
DATE : 21 nov 2024

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FERNANDO J. GALVEZO Engineering Assistant A	MARC JED S. DAPITO Engineer III	RONALD O. MATIBAG Acting Principal Engineer A	MARGARITO F. DIMAILIG Division Manager A, ESD	JON GABRIELL M. MANANSALA Port Manager A

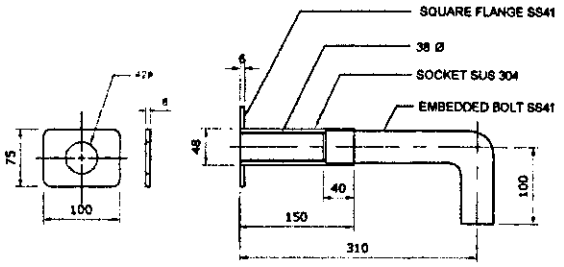


PLAN





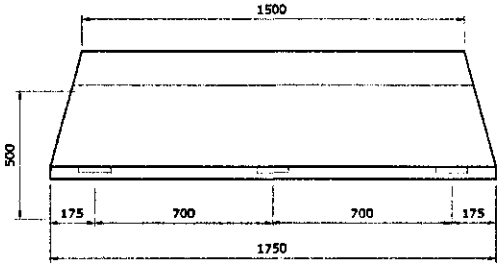
FIXING BOLT (SS 41)
(Zn COATING)



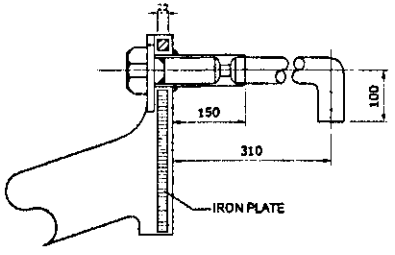
WASHER (SS 41)
(Zn COATING)

DETAIL OF ANCHOR BOLT (NORMAL)

NOT TO SCALE



ELEVATION



VIEW "A"

DETAIL OF RUBBER DOCK FENDER V-500H x 1500L

SCALE 1 : 20

PERFORMANCE CHARACTERISTIC OF 500H (V-Type)

AT RATED DEFLECTION OF FENDER (45%)		
HULL PRESSURE	REACTION FORCE	ENERGY ABSORPTION
TON/M²	TON	TON-M
96 (max.)	56.3 (max.)	9.38 (min.)

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

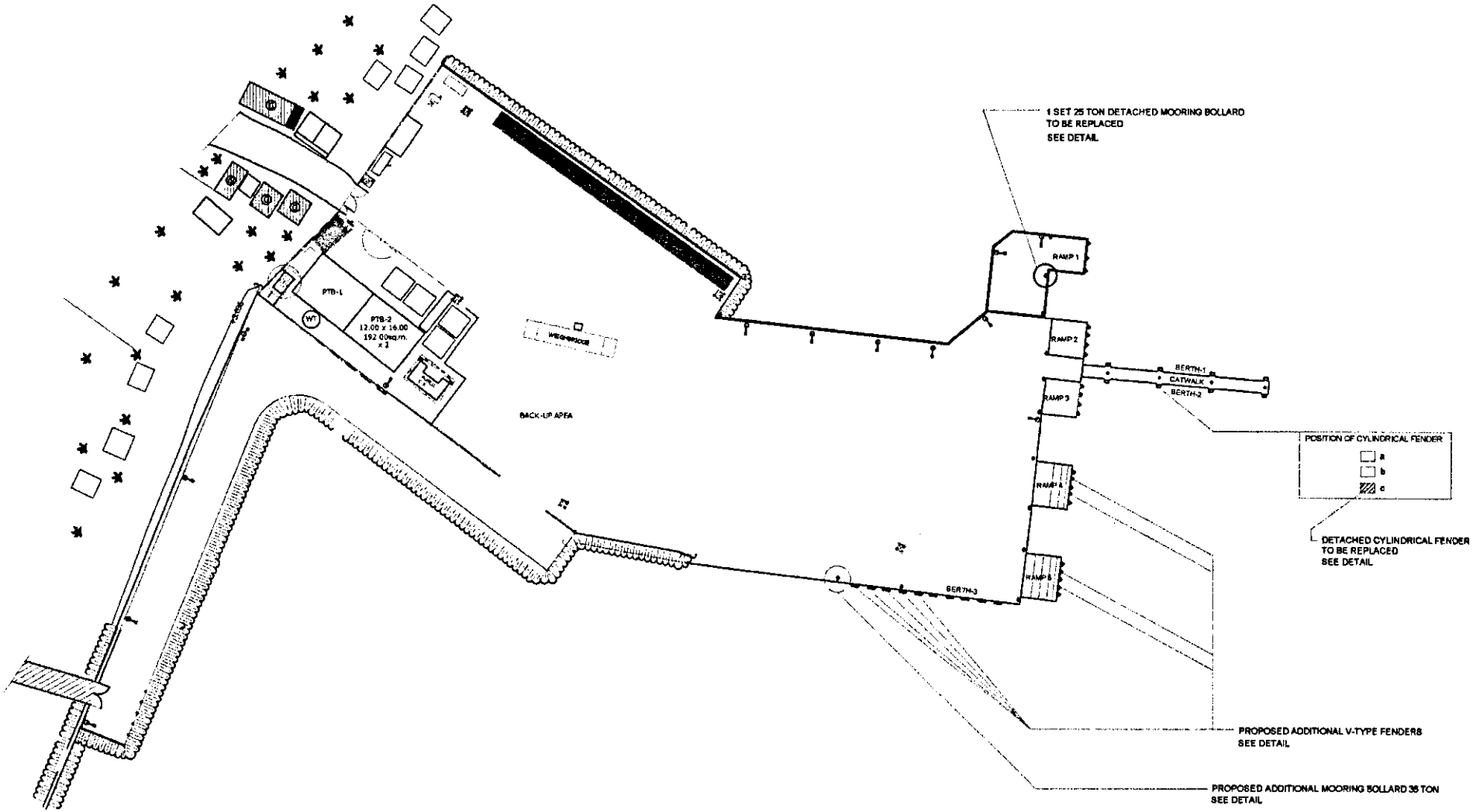
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SCALE: AS SHOWN

SHEET NO. 8 of 15

DATE : 21 nov 2024

PREPARED BY:	SUBMITTED BY:	CHECKED / REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:
FERNANDO J. GALVEZO	MARC JED E. DAPITO	RONALD O. MATIBAG	MARGARITO P. DIMAILIG	JON GABRIELL M. MANANSALA
Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager A, ESO	Port Manager A



LOCATION PLAN OF FENDERING & MOORING SYSTEM TO BE REPAIRED

PORT OF ROXAS
ORIENTAL MINDORO

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

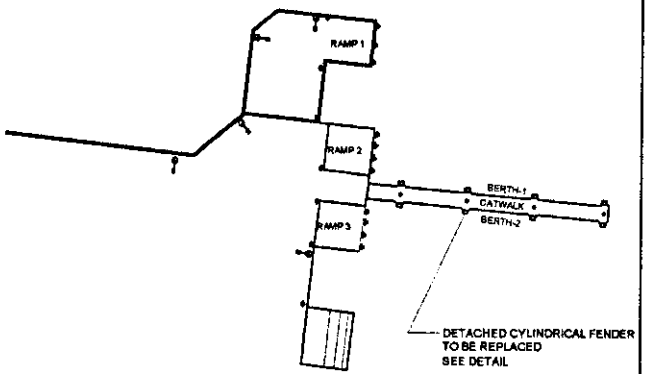
PREPARED BY:	SUBMITTED BY:	CHECKED / REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:
FERNANDO J. GALVEZO	MARC JED E. DAPITO	RONALD O. AMTIBAG	MARGARITO P. DIMAILIG	JON GABRIELL M. MANANSALA
Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager A, ESD	Port Manager A

SHEET CONTENTS: AS SHOWN

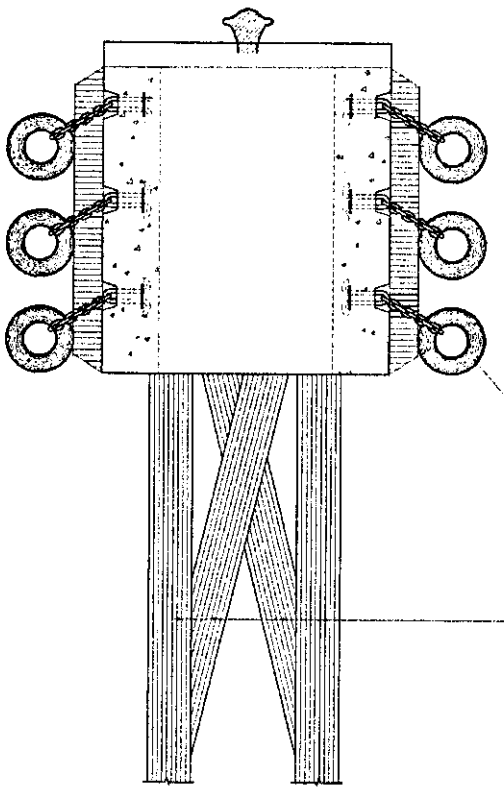
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SHEET NO. 9 of 15

DATE : 21 nov 2024

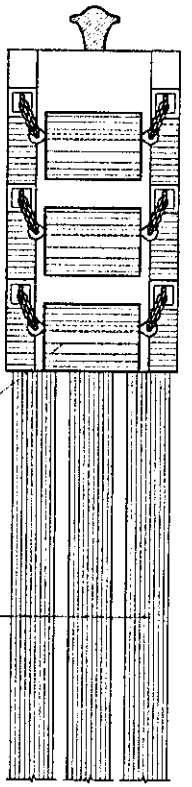


LOCATION PLAN



TYPICAL SIDE ELEVATION

SCALE 1 : 40 MTS



TYPICAL FRONT ELEVATION

SCALE 1 : 40 MTS

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

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Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager A, ESD	Port Manager A

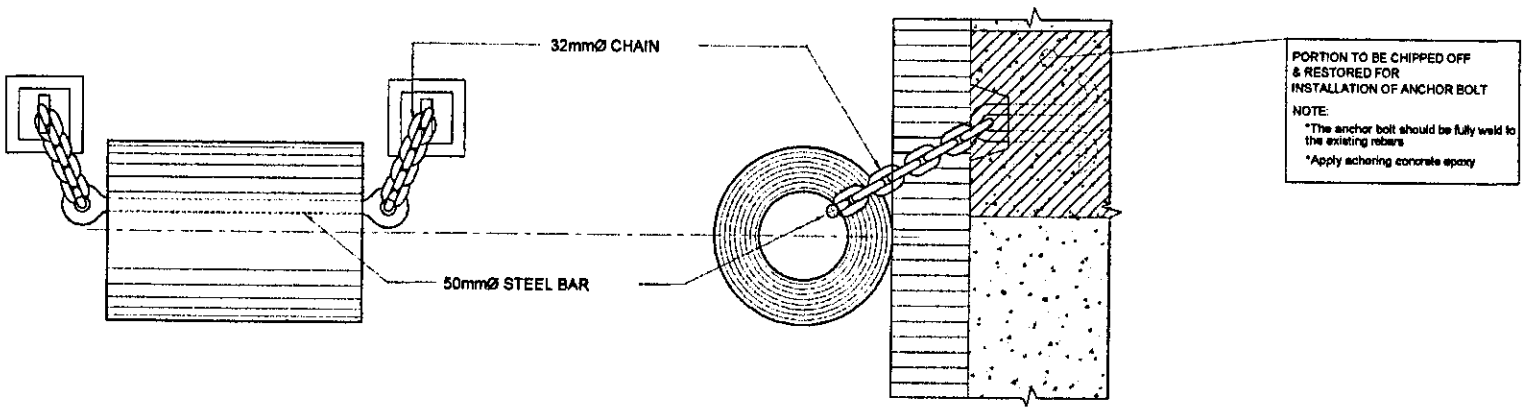
SHEET CONTENTS:	SCALE:
AS SHOWN	AS SHOWN
	SHEET NO. 10 of 15
	DATE : 21 nov 2024

PERFORMANCE DATA OF 700mmØ x 350mmØ x 1000mm CYLINDRICAL RUBBER DOCK FENDER @ 45% DEFLECTION

REACTION FORCE (ton)	ENERGY ABSORPTION (ton-meter)
27.70	4.21

PROPERTIES OF 700mmØ x 350mmØ x 1000mm CYLINDRICAL RUBBER DOCK FENDER ACCESSORIES

CHAIN DIAMETER (mm)	ULTIMATE STRENGTH OF CHAIN (ton)	DIAMETER OF STEEL BAR (mm)	DIAMETER OF ANCHOR BOLT (mm)
32	38.6	50	42



FRONT VIEW

SIDE-SECTIONAL VIEW

TYPICAL DETAIL OF FENDER CONNECTION

SCALE 1 : 20 MTS

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

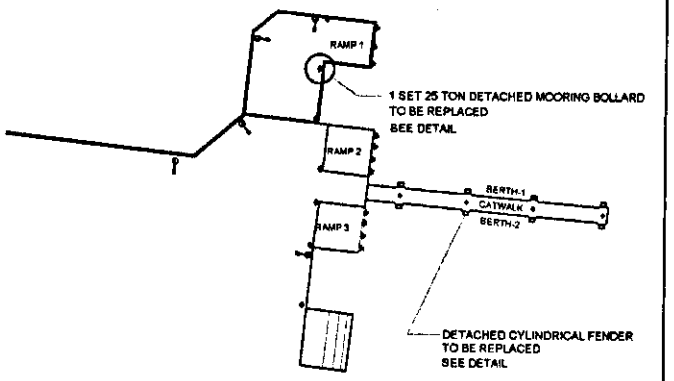
PREPARED BY:	SUBMITTED BY:	CHECKED / REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:
FERNANDO J. GALVEZO	MARC JED E. DAPITO	RONALD O. MATIBAG	MARGARITO P. DIMAILIG	JONI GABRIELL M. MANANSALA
Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager A, ESD	Port Manager A

SHEET CONTENTS: AS SHOWN

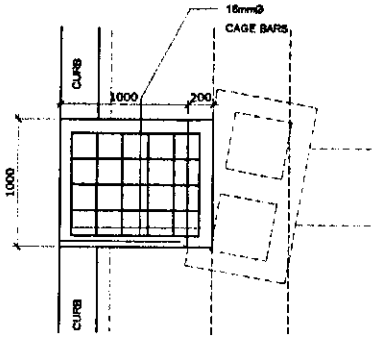
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SHEET NO. 11 of 15

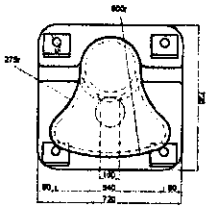
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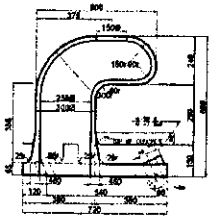
LOCATION PLAN



PLAN



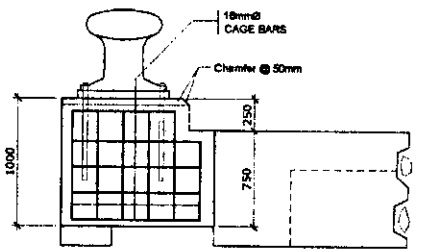
PLAN



SECTION

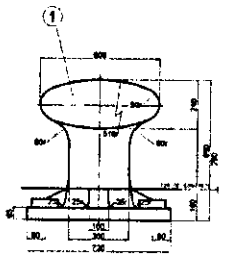
MATERIALS AND WEIGHT

NO.	DESCRIPTION	MATERIALS AND SPECIFICATION	ALLOW. STRESS (Kgf/cm²)	QTY.	WEIGHT PER Pc. (Kgf)	WT. (Kgf)
1	BODY	JIS G 5101 3 GRADE SC 46	1,400	1	420	426
2	ANCHOR BOLT	JIS G 3101 2 GRADE SS41 JIS B 0205 M 48-5	1,400	4	9	36
3	HEXAGON NUTS	JIS B 1181 I GRADE 4T. M42-4.5	-	8	-	-
4	PLAIN WASHER	JIS B 1256 ROUND STEEL	-	4	-	-
5	ANCHOR RING	JIS G 3101 2 GRADE SS41 OR JIS G 5101 3 GRADE SC46	1,400	4	8	32

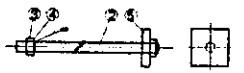


TYPICAL REINFORCEMENT OF BOLLARD BLOCK

SCALE 1 : 40



ELEVATION



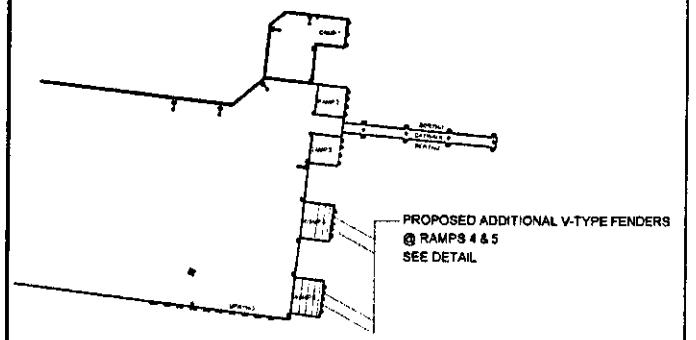
25 TON MOORING BOLLARD DETAIL

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

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FERNANDO J. GALVEZO Engineering Assistant A	MARC JED E. DAPITO Engineer III	RONALD O. MATIBAG Acting Principal Engineer A	MARGARITO P. DIMAILIG Division Manager A, ESD	JONGABRIELL M. MANANSALA Port Manager A

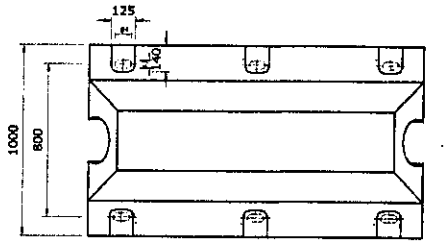
SHEET CONTENTS:	SCALE: AS SHOWN
AS SHOWN	SHEET NO. 12 of 15
	DATE : 21 nov 2024



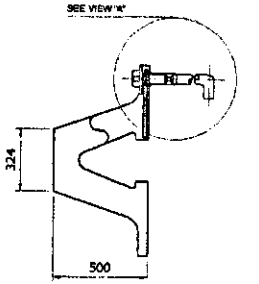
LOCATION PLAN

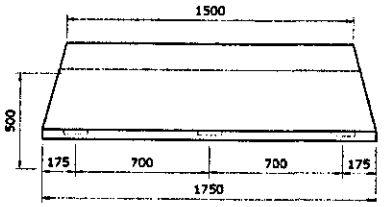
PERFORMANCE CHARACTERISTIC OF 500H (V-Type)

AT RATED DEFLECTION OF FENDER (45%)		
HULL PRESSURE	REACTION FORCE	ENERGY ABSORPTION
TON/M²	TON	TON-M
96 (max.)	58.3 (max.)	9.36 (min.)

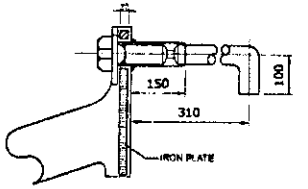


PLAN



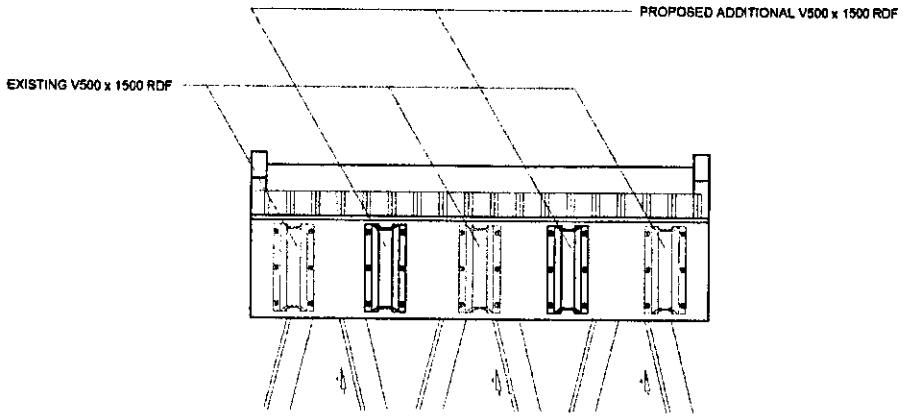


ELEVATION

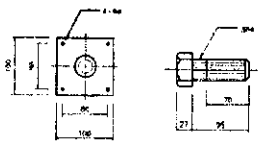


VIEW "A"

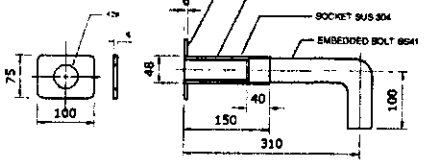
DETAIL OF RUBBER DOCK FENDER V-500H x 1500L



TYPICAL FRONT ELEVATION OF RAMP NO. 4 & 5



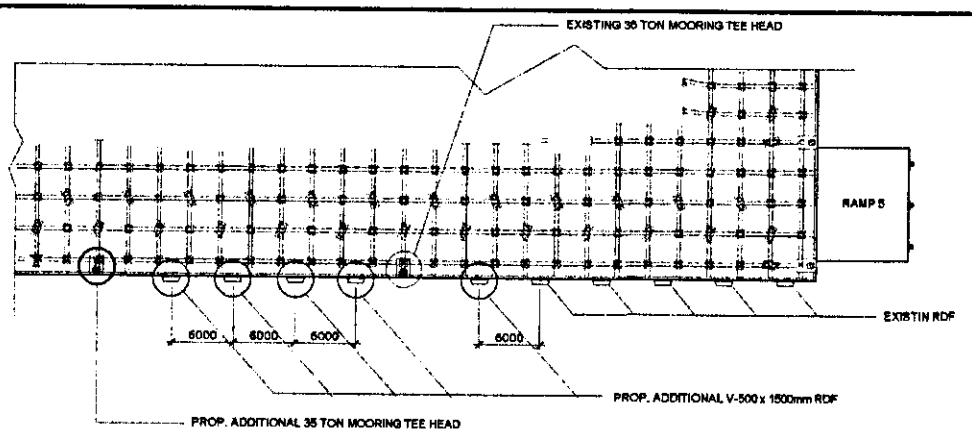
FIXING BOLT (SS 41)
(Zn COATING)



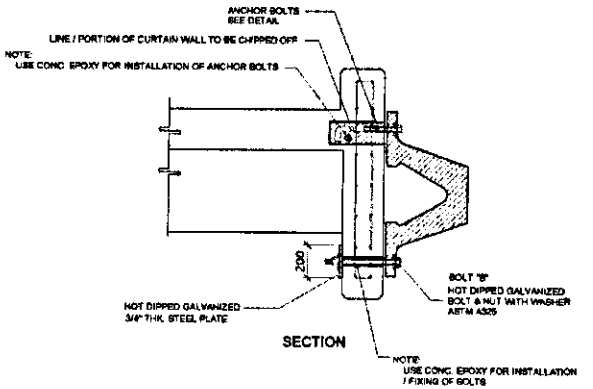
WASHER (SS 41)
(Zn COATING)

DETAIL OF ANCHOR BOLT (NORMAL)

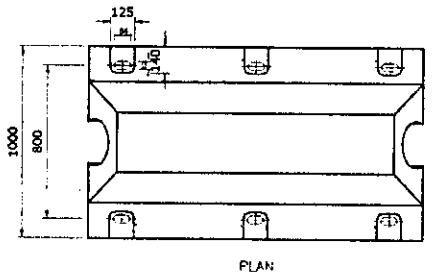
PHILIPPINE PORTS AUTHORITY PMO- MINDORO	PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM PORT OF ROXAS, ORIENTAL MINDORO				SHEET CONTENTS:	SCALE: AS SHOWN
	PREPARED BY: FERNANDO J. GALVEZO, Engineering Assistant A	SUBMITTED BY: MARC JED E. DAPITO, Engineer III	CHECKED / REVIEWED BY: RONALD O. NATIBAG, Acting Principal Engineer A	RECOMMENDING APPROVAL: MARGARITO P. CHAILIG, Division Manager A, ESD	APPROVED: JON GABRIELL M. MANANSALA, Port Manager A	AS SHOWN	SHEET NO. 13 of 15
						DATE: 21 nov 2024



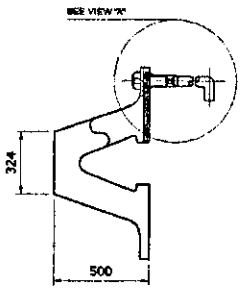
LOCATION PLAN

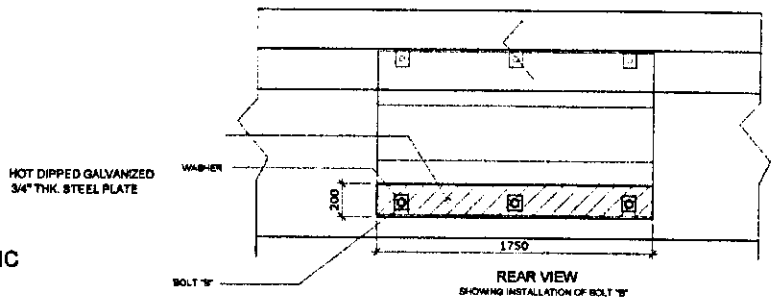


SECTION



PLAN



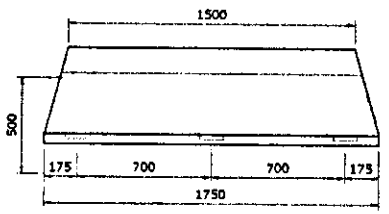


REAR VIEW
SHOWING INSTALLATION OF BOLT "B"

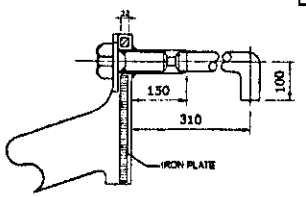
CONNECTION DETAIL OF FENDER

PERFORMANCE CHARACTERISTIC OF 500H (V-Type)

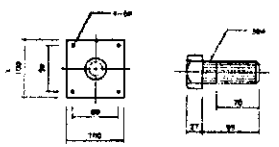
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TON/M²	TON	TON-M
95 (max.)	56.3 (max.)	9.38 (min.)



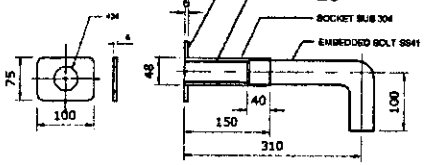
ELEVATION



VIEW "A"



FIXING BOLT (SS 41) (Zn COATING)



WASHER (SS 41) (Zn COATING)

DETAIL OF RUBBER DOCK FENDER V-500H x 1500L

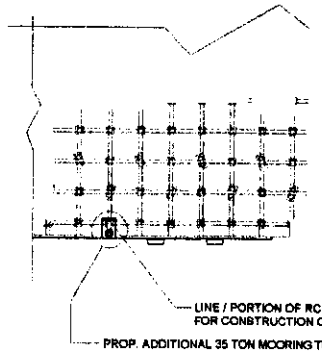
DETAIL OF ANCHOR BOLT (NORMAL)

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

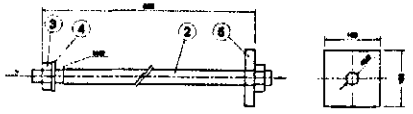
PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

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FERNANDO J. GALVEZO	MARC JED E. DAPITO	RONALD O. MATIBAG	MARGARITO P. DIMAILIG	JON GABRIELL M. MANANSALA
Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager A, ESD	Port Manager A

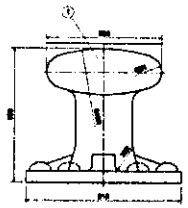
SHEET CONTENTS:	SCALE:
AS SHOWN	AS SHOWN
	SHEET NO. 14 of 15
	DATE : 21 nov 2024



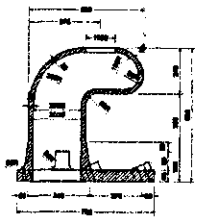
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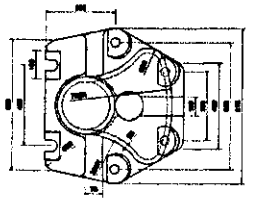
DETAIL OF ANCHOR BOLT



ELEVATION



SECTION

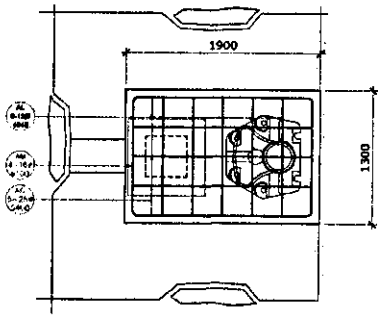


PLAN

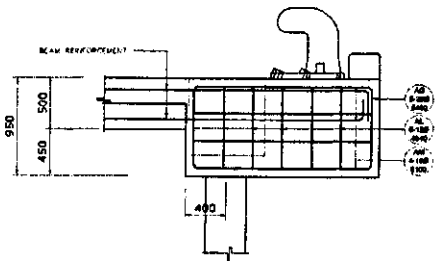
MATERIALS AND WEIGHT

NO	DESCRIPTION	MATERIALS AND SPECIFICATION	ALLOW STRESS (Kg/cm²)	QTY	WEIGHT PER Pc (Kgf)	WT (Kgf)
1	BODY	JIS G 5101 3 GRADE SC 46	1,400	1	440	448
2	ANCHOR BOLT	JIS G 3101 2 GRADE SS41 JIS B 0205 M 64-6	1,400	6	9	54
3	HEXAGON NUTS	JIS B 1181 I GRADE 47 M64-6	-	12	-	-
4	PLAIN WASHER	JIS B 1256 ROUND STEEL	-	6	-	-
5	ANCHOR RING	JIS G 3101 2 GRADE SS41 OR JIS G 5101 3 GRADE SC45	1,400	6	8	48

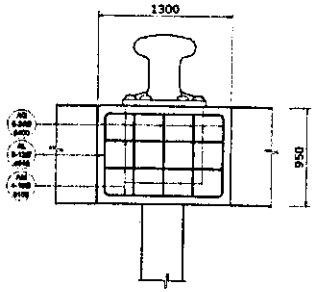
35 TON MOORING TEE HEAD DETAIL



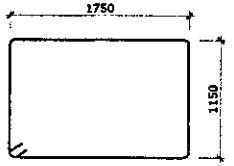
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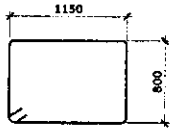
SIDE ELEVATION



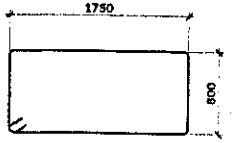
ELEVATION



BAR AM: 4-16ø x 6100



BAR AL: 6-12ø x 4040



BAR AQ: 5-25ø x 5400

DETAIL OF MOORING BLOCK

SCALE 1 : 50

STRUCTURAL NOTES:

MATERIAL STRENGTHS :

MINIMUM CONCRETE STRENGTH AT 28 DAYS COMPRESSIVE TEST SHALL BE AS FOLLOWS:

24.13 MPa	3,500 PSI	FOOTING, GRADE BEAMS, STANDREELS
24.13 MPa	3,500 PSI	SUSPENDED REINFORCED CONCRETE SLAB, BEAMS & GIRDERS
24.13 MPa	3,500 PSI	REINFORCED CONCRETE COLUMNS & RETAINING WALLS
24.13 MPa	3,500 PSI	RC SEAT, GUTTER, SLOPE PROTECTION & CONCRETE BLOCKS
24.13 MPa	3,500 PSI	SLAB ON GRADE, CONCRETE ROAD & PAVEMENT
414.0 MPa	60,000 PSI	REINFORCING STEEL BARS, GRADE 60 (16 mmø AND LARGER)
275.0 MPa	40,000 PSI	REINFORCING STEEL BARS, GRADE 40 (12 mmø AND SMALLER)

A.) CONCRETE PROTECTION FOR REINFORCING BARS

	MINIMUM COVER
1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH AND CONCRETE PERMANENTLY EXPOSED TO SEAWATER.	75 mm

STANDARD HOOK FOR MAIN BARS :

SIZES OF 180-DEGREE HOOKS		SIZES OF 90-DEGREE HOOKS
GRADES 50-60-75 K.S.I.	GRADE 40 K.S.I.	ALL GRADES
D=6d for ø10mm thru ø25mm	D=5d for ø10mm thru ø34mm	D=6d for ø10mm thru ø25mm
D=8d for ø28mm,ø32mm & 34mm	D=10d for ø44mm & ø57mm	D=8d for ø28mm,ø32mm&34mm
D=10d for ø44mm & ø57mm.		D=10d for ø44mm & ø57mm.

STIRRUP AND HOOK DIMENSIONS :

BARS SIZE (mm)	D (mm)	GRADES 40-50-60 K.S.I.		
		90° HOOK	135° HOOK	
		A	A	F (APPROX.)
ø10	38.0	10.0 cm	10.0 cm	8.0 cm
ø12	50.8	11.0 cm	11.0 cm	8.0 cm
ø16	63.5	13.0 cm	14.0 cm	9.5 cm
ø20	76.0	16.0 cm	16.0 cm	11.5 cm

MISCELLANEOUS NOTES :

- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- ALL CONSTRUCTION MATERIALS SHALL BE APPROVED BY PPA ENGINEERS APPROVAL.

PHILIPPINE PORTS AUTHORITY
PMO- MINDORO

PROJECT TITLE: RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

SHEET CONTENTS: AS SHOWN

SCALE: AS SHOWN

SHEET NO. 15 of 15

DATE : 21 nov 2024

PREPARED BY:	SUBMITTED BY:	CHECKED / REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED:
FERNANDO J. GALVEZO	MARC JED E. DAPITO	RONALD O. MATIBAG	MARGARITO F. DIMAILIG	JON GABRIELL M. MANANSALA
Engineering Assistant A	Engineer III	Acting Principal Engineer A	Division Manager-A, ESD	Port Manager A

SECTION VIII

BILL OF QUANTITIES and ATTACHMENTS

BID SUMMARY

RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
Port of Roxas, Oriental Mindoro

NO. (1)	DESCRIPTION OF WORK (2)	AMOUNT (Pesos) (3)
BILL NO.	1 GENERAL EXPENSES	
BILL NO.	2 RORO RAMP	
	BID SUMMARY	

Name of Firm

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

Date

BILL OF QUANTITIES

RESTORATION OF RORO RAMP NO.1 AND FENDERING SYSTEM
PORT OF ROXAS, ORIENTAL MINDORO

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QUANTITY (4)	UNIT PRICE (Pesos)(5)	AMOUNT (Pesos)(4x5)
BILL NO. 1	**GENERAL EXPENSES**				
1.01	Mobilization, demobilization and cleaning	l.s.	1		P
1.02	Provide construction safety and Health Program in the execution of the project per Engineering Circular no. 01-2020 and Construction Guidelines for Project implementation during the period of Public Health, approved by PDCB and CIAP (as indicated in BID Documents)	mo.	2		
	TOTAL AMOUNT FOR BILL NO. 1				

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

BILL OF QUANTITIES

REHABILITATION AND EXPANSION OF PTB ROXAS

Port of Roxas, Oriental Mindoro

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QUANTITY (4)	UNIT PRICE (Pesos)(5)	AMOUNT (Pesos)(4x5)
BILL NO. 2	**RORO RAMP**				
2.01	Demolition and dispose damaged Roro Ramp, Bollard base including turnover of existing V-Type Rubber Dock Fender and 25t Mooring Bollard	l.s.	1		P
2.02	Chipping of Beam Concrete	l.s.	1		
2.03	Supply and Place Reinforcing Steel Bar for Ramp Deck and Bollard Block	kg.	4271.18		
2.04	Supply and Place 3500psi Concrete for Beam, Ramp Deck, and Bollard Block	cu.m.	40.07		
2.05	Supply and Install 500mmx1500mm V-type 700mmx350mmx1000mm Cylindrical Rubber Dock Fender including accessories	set	14		
2.06	Supply, Fabricate and Install W150x37.1x6m Steel Ramp Protection	kg.	6010.20		
2.07	Supply and Install 35t and 25t Mooring Bollard including accessories	set	2		
	TOTAL AMOUNT FOR BILL NO. 2				

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

BILL NO. 2

RORO RAMP

Item 2.01 **Demolish and Dispose damaged Roro Ramp, Bollard Base including turnover existing V-Type Rubber Dock Fender and 25t Mooring Bollard**

The quantity to be paid for shall be the actual quantity in lumpsum including demolish and disposal of Roro Ramp, Bollard Base and unsuitable items including turnover of existing V-Type Rubber Dock Fender and 25t Mooring Bollard in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.02 **Chipping of Beam Concrete**

The quantity to be paid for shall be the actual quantity in lumpsum of chipping works including disposal of unsuitable items in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.03 **Supply and Place Reinforcing Steel Bar for Ramp Deck and Bollard Block**

The quantity to be paid for shall be the actual weight in kilogram of Grade 60 steel reinforcements to be supplied and set-in-place for concreting works in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.04 **Supply and Place 3500psi Concrete for Beam, Ramp Deck and Bollard Block**

The quantity to be paid for shall be the actual volume in cubic meter of 3500psi concrete to be supplied and set-in place for Beam, Ramp Deck and Bollard Block in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.05 **Supply and Install 500mmx1500mm V-type700mmx350mmx1000mm Cylindrical Rubber Dock Fender including accessories**

The quantity to be paid for shall be the actual quantity in set of V-Type and Cylindrical Rubber Dock Fender to be supplied and set-in-place in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.06 **Supply, Fabricate and Install W150x37.1x6m Steel Ramp Protection**

The quantity to be paid for shall be the actual weight in kilogram of steel to be supplied and set-in-place for ramp protection in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.07 Supply and Install 35t and 25t Mooring Bollard including accessories

The quantity to be paid for shall be the actual quantity in set of 35t and 25t Mooring Bollard to be supplied and set-in-place in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

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 MAJOR EQUIPMENT REQUIREMENTS

8	unit/s	Chipping Gun, Owned
2	unit/s	One Bagger Concrete Mixer, Owned
2	unit/s	Concrete Vibrator (3.5hp),Owned
1	unit/s	Boom Truck(5t), Owned or Leased
1	unit/s	Truck Mounted Crane(5t), Owned or Leased
2	unit/s	Electric Grinder, Owned
2	unit/s	Welding Machine, Owned
2	unit/s	Electric Drill, Owned
4	unit/s	Oxy-Acetylene Cutting Outfit, Owned
1	unit/s	Truck Mounted Crane(30t), Owned or Leased
1	unit/s	Dump Truck, Owned or Leased
1	unit/s	Bar Cutter (25mm bar dia. max), Owned
1	unit/s	Bar Bender (25mm bar dia. max), Owned
4	unit/s	Jackhammer with Compressor,350cfm, Owned or Leased

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
1	no.	Nurse / Health Officer

EQUIPMENT / MATERIALS

Personal Protective Equipment

29	pcs.	Hard Hats
29	pairs	Gloves (rubberized)
29	pcs.	Safety Glasses/Goggles (clear)
58	pcs.	Long sleeve T-shirt
29	pairs	Safety Shoes

Safety Devices

1	lot	Barricades
1	lot	Warning signs
2	unit/s	Fire extinguisher (10kg)

Medical and First Aid System	-	Three (2) mos.
Temporary shelter for workers	-	1 lot

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)
B 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 Mill Certificate	One per batch 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 Laboratory California Bearing Ratio (CBR) Field Density Test	For every 1,500 cubic meter or fraction thereof For every 2,500 cubic meter or fraction thereof 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 Quality Test for Grading, Plasticity, Abrasion and Laboratory Compaction Test Laboratory California Bearing Ratio (CBR) Field Density Test	For every 300 cubic meter or fraction thereof For every 1,500 cubic meter or fraction thereof Same frequency as Selected Fill 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

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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

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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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PPA MEMORANDUM CIRCULAR
No 02
Series of 2016
Attachment

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 Destructive 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: **Restoration of Roro Ramp No.1 and Fendering System, Port of Roxas, Oriental Mindoro**;

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

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

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 **Restoration of Roro Ramp No.1 and Fendering System, Port of Roxas, Oriental Mindoro** of the **Philippine Ports Authority**.

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. Reinforced Concrete Works for Superstructures	m^3	20						

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 purchase 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: August 2024

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 **Restoration of Roro Ramp No.1 and Fendering System, Port of Roxas, Oriental Mindoro** 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 agenet 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 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 **Restoration of Roro Ramp No.1 and Fendering System, Port of Roxas, Oriental Mindoro** 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 **Restoration of Roro Ramp No. 1 and Fendering System, Port of Roxas, Oriental Mindoro**, 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. RORO RAMP

1. Demolish and dispose of damaged Roro Ramp, Bollard Base, including turnover of Existing V-Type Rubber Dock Fender and 25t Mooring Bollard.
2. Chipping of Beam Concrete.
3. Supply and Place Reinforcing Steel Bar for Ramp Deck and Bollard block.
4. Supply and Place 3500 psi Concrete for Beam, Ramp deck, and Bollard Base.
5. Supply and install 500mmx1500mm V-Type and 700mmx350mmx1000mm Cylindrical Rubber Dock Fender, including accessories
6. Supply, Fabricate, and Install W150 x 37.1 x6m Steel Ramp Protection
7. Supply and install 35t and 25t Mooring Bollards and accessories

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)																			
		MONTHLY																			
		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, **[Name 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 hereto 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]