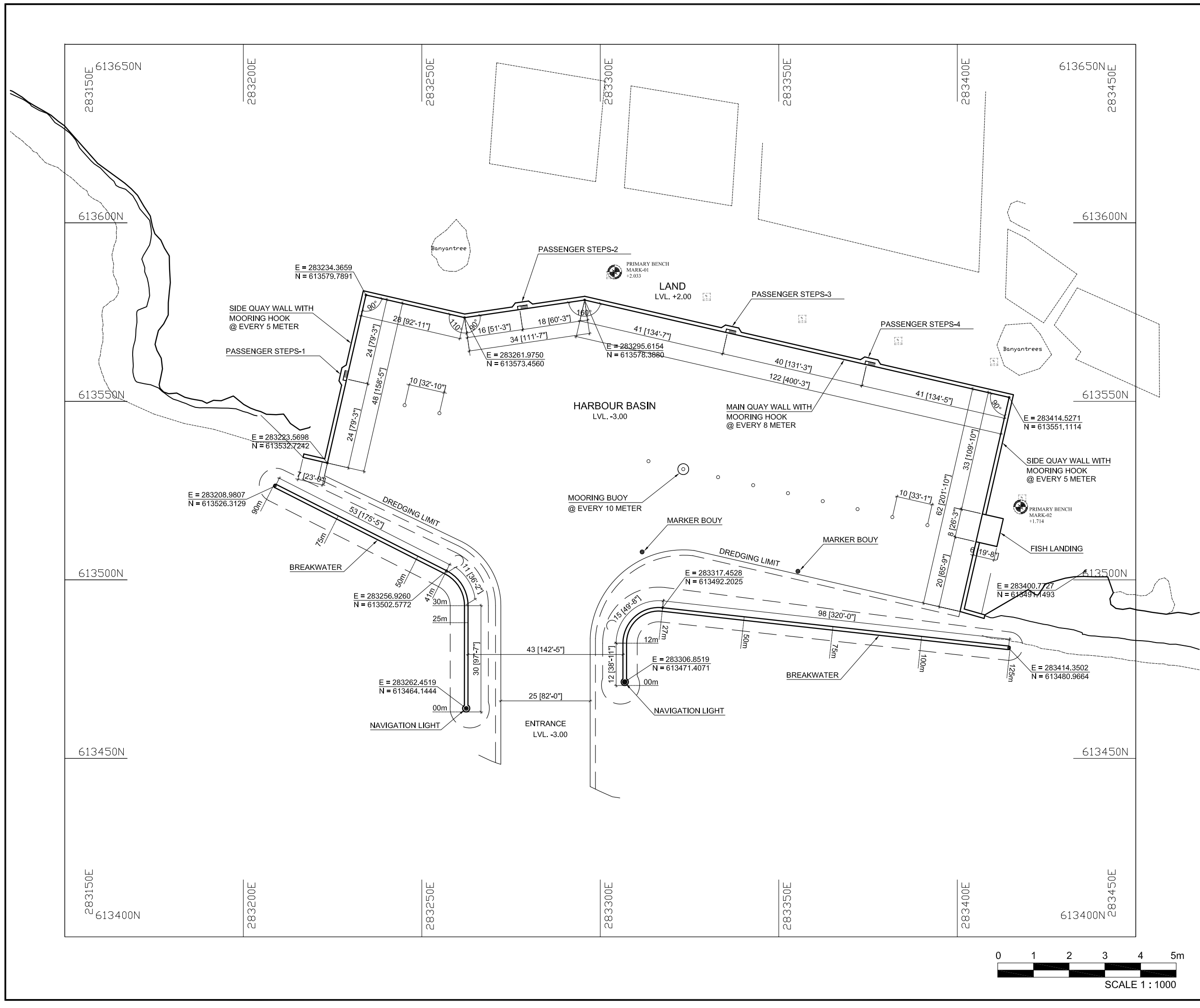


| R. INNAMAADHOO HARBOUR | | |
|------------------------|-----------------------------------|---------|
| LIST OF DRAWINGS | | |
| DWG. NOS | DRAWING TITLES | REV. NO |
| IM-CI-00 | LIST OF DRAWINGS | 1 |
| IM-CI-01 | EXISTING LAYOUT | 1 |
| IM-CI-02 | NEW DESIGN LAYOUT | 1 |
| IM-CI-03 | NEW DESIGN W/ EXISTING FOOT PRINT | 1 |
| IM-CI-04 | DREDGING PLAN | 1 |
| IM-CI-05 | QUAY WALL DETAILS (SHEET 1 OF 6) | 1 |
| IM-CI-05 | QUAY WALL DETAILS (SHEET 2 OF 6) | 1 |
| IM-CI-05 | QUAY WALL DETAILS (SHEET 3 OF 6) | 1 |
| IM-CI-05 | QUAY WALL DETAILS (SHEET 4 OF 6) | 1 |
| IM-CI-05 | QUAY WALL DETAILS (SHEET 5 OF 6) | 1 |
| IM-CI-05 | QUAY WALL DETAILS (SHEET 6 OF 6) | 1 |
| IM-CI-06 | BREAKWATER DETAILS (SHEET 1 OF 2) | 1 |
| IM-CI-06 | BREAKWATER DETAILS (SHEET 2 OF 2) | 1 |
| IM-CI-07 | TYPICAL DETAILS | 1 |

NOTES:

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| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| 0 | 20.06-'14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
| REVISION | | | | | |
| CLIENT | | | | | |
| <div><div></div><div>MINISTRY OF HOUSING & INFRASTRUCTURE REPUBLIC OF MALDIVES</div></div> | | | | | |
| CONSULTANT: | | | | | |
| <div><div><div>Al-Habshi Consultant</div><div></div></div><div>Al-Habshi Consultants Office Tel: 2430103 / 2433131 - Fax : 2431136 P.O.Box 27154 Safat 13132 - Kuwait</div></div> | | | | | |
| PROJECT: | | | | | |
| RECONSTRUCTION OF HARBORS PHASE-2 | | | | | |
| DRAWING TITLE: | | | | | |
| R.INNAMAADHOO HARBOUR LIST OF DRAWINGS | | | | | |
| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
| SS | JP | MS | MA | N.T.S | 20-06-'14 |
| PROJECT No. | SHEET No. | DRAWING No. | | | |
| K-601 | 1 OF 1 | IM-CI-00 | | | |
| REV. No. | 1 | | | | |



NOTES:
1- ALL DIMENSIONS AND LEVELS ARE IN METER, UNLESS OTHERWISE SHOWN.
2- FISH LANDING LOCATIONS IS INDICATIVE, FINAL LOCATION MAY BE AGREED UPON IN SITE.

LEGENDS:-
 BENCHMARK
PBM-1 = +1.346m (329279.4430E, 652427.1840N)
PBM-2 = +1.207m (329227.6100E, 652603.3640N)
 - BEACH LINE (TOE OF BEACH)
 - EDGE OF VEGETATION
 - PROPOSED QUAY WALL
 - PROPOSED BREAKWATER

| | | | | | |
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| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| 0 | 20-06-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
| REVISION | | | | | |
| CLIENT | | | | | |
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| PROJECT: | | | | | |
| RECONSTRUCTION OF HARBORS PHASE-2 | | | | | |
| DRAWING TITLE: | | | | | |
| R.INNAMAADHOO HARBOUR NEW DESIGN LAYOUT | | | | | |
| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
| SS | JP | MS | MA | 1:1000 | 20-06-14 |
| PROJECT No. SHEET No. | | DRAWING No. | | | |
| K-601 1 OF 1 | | IM-CI-02 | | | |
| REV. No. | | 0 | | | |



NOTES:
1- ALL DIMENSIONS AND LEVELS ARE IN METER, UNLESS OTHERWISE SHOWN.

- LEGENDS:-**
- BENCHMARK
PBM-1 = +1.346m (329279.4430E, 652427.1840N)
PBM-2 = +1.207m (329227.6100E, 652603.3640N)
 - BEACH LINE (TOE OF BEACH)
 - EDGE OF VEGETATION
 - PROPOSED QUAY WALL
 - PROPOSED BREAKWATER
 - DREDGING LIMIT
 - EXISTING QUAY WALL

| | | | | | |
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| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| 0 | 20-06-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |

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REPUBLIC OF MALDIVES

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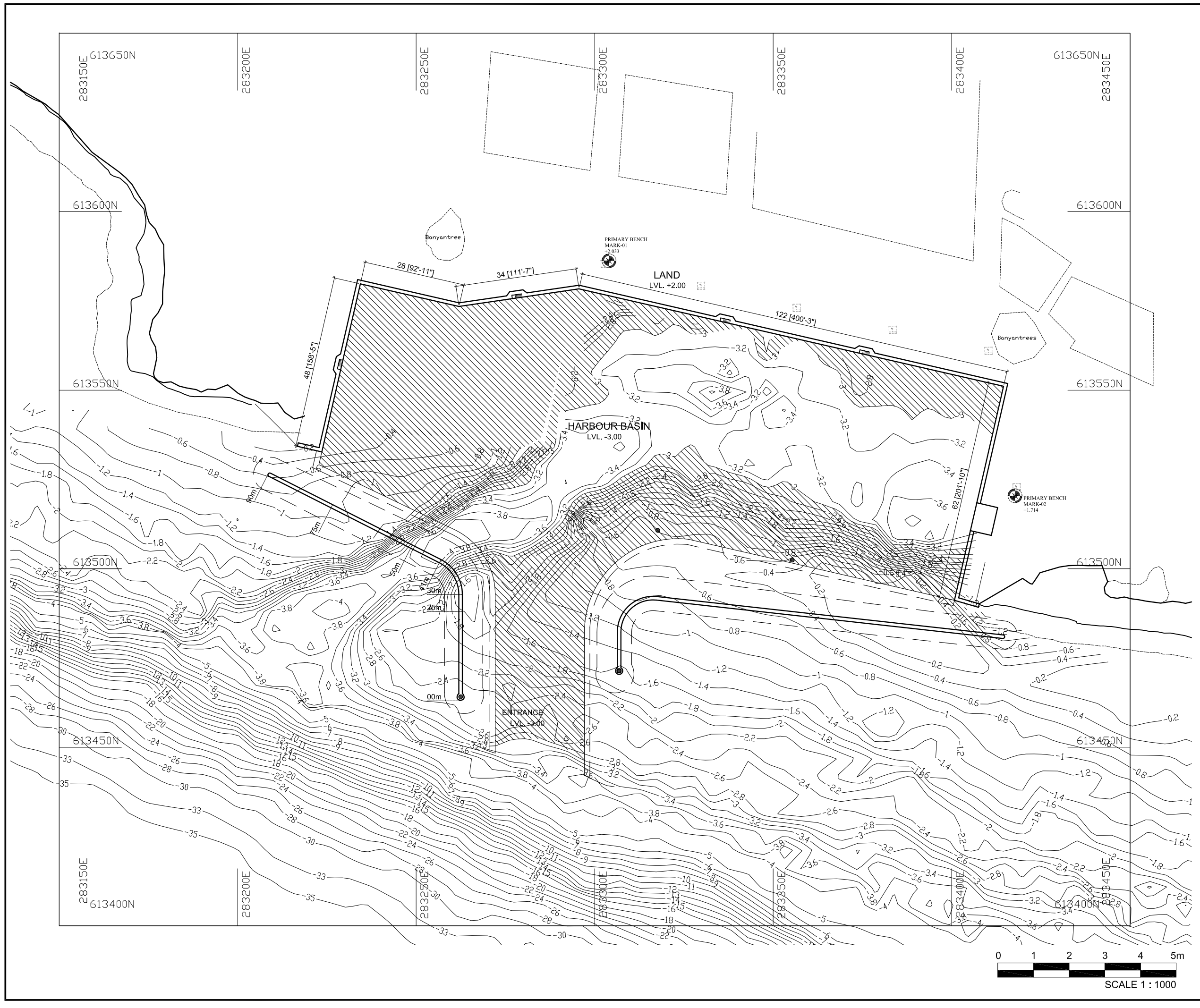


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PROJECT:

**RECONSTRUCTION OF HARBORS
PHASE-2**

| | | | | | |
|---|-----------|-------------|----------|--------|----------|
| DRAWING TITLE: | | | | | |
| R.INNAMAADHOO HARBOUR NEW DESIGN W/ EXISTING FOOTPRINT | | | | | |
| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
| SS | JP | MS | MA | 1:1000 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. | | | |
| K-601 | 1 OF 1 | IM-CI-03 | | | |
| REV. No. | 0 | | | | |



NOTES:
1- ALL DIMENSIONS AND LEVELS ARE IN METER, UNLESS OTHERWISE SHOWN.

- LEGENDS:-**
- DREDGING AREA
 - CONTOUR LINE
 - BEACH LINE (TOE OF BEACH)
 - EDGE OF VEGETATION
 - PROPOSED QUAY WALL
 - PROPOSED BREAKWATER

| | | | | | | |
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| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA | |
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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. | |

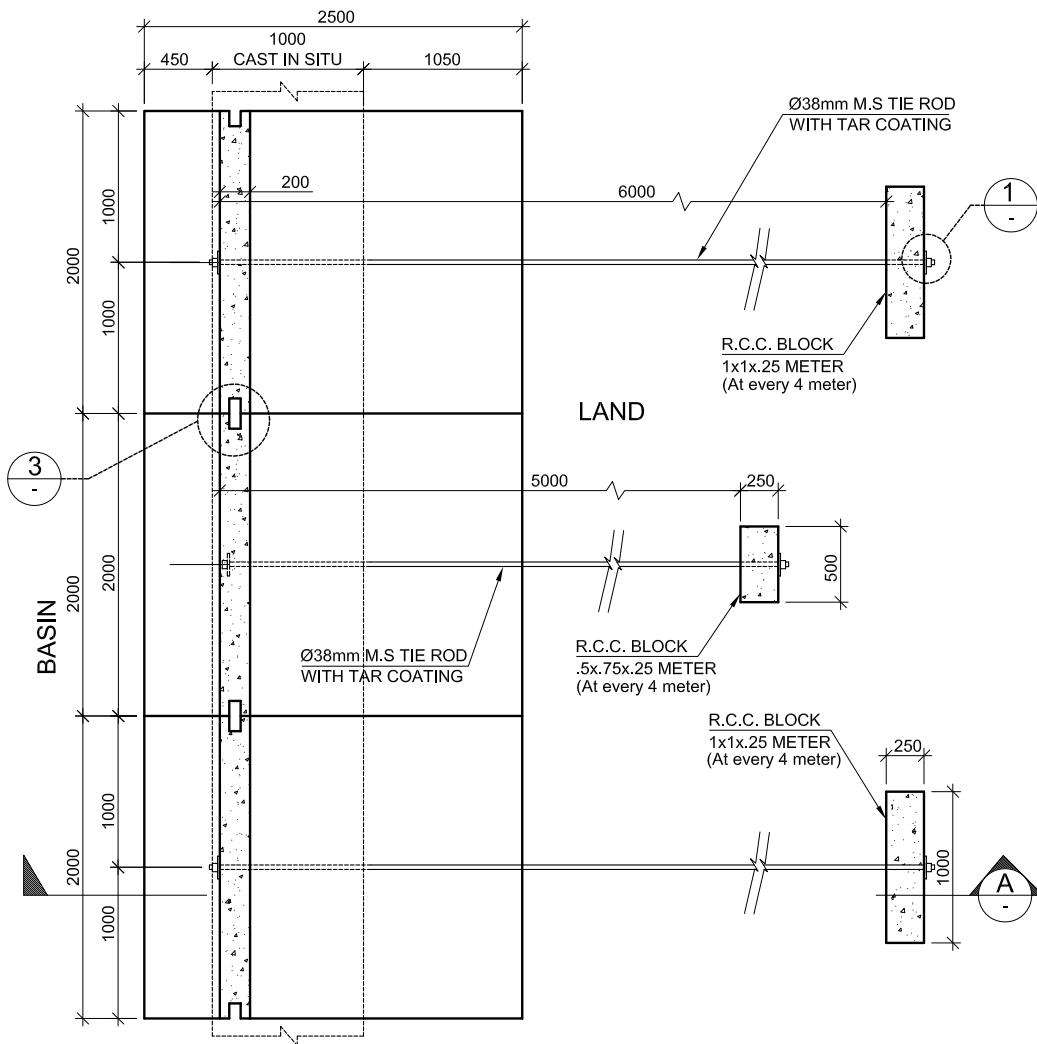
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|---|--|--|--|--|--|
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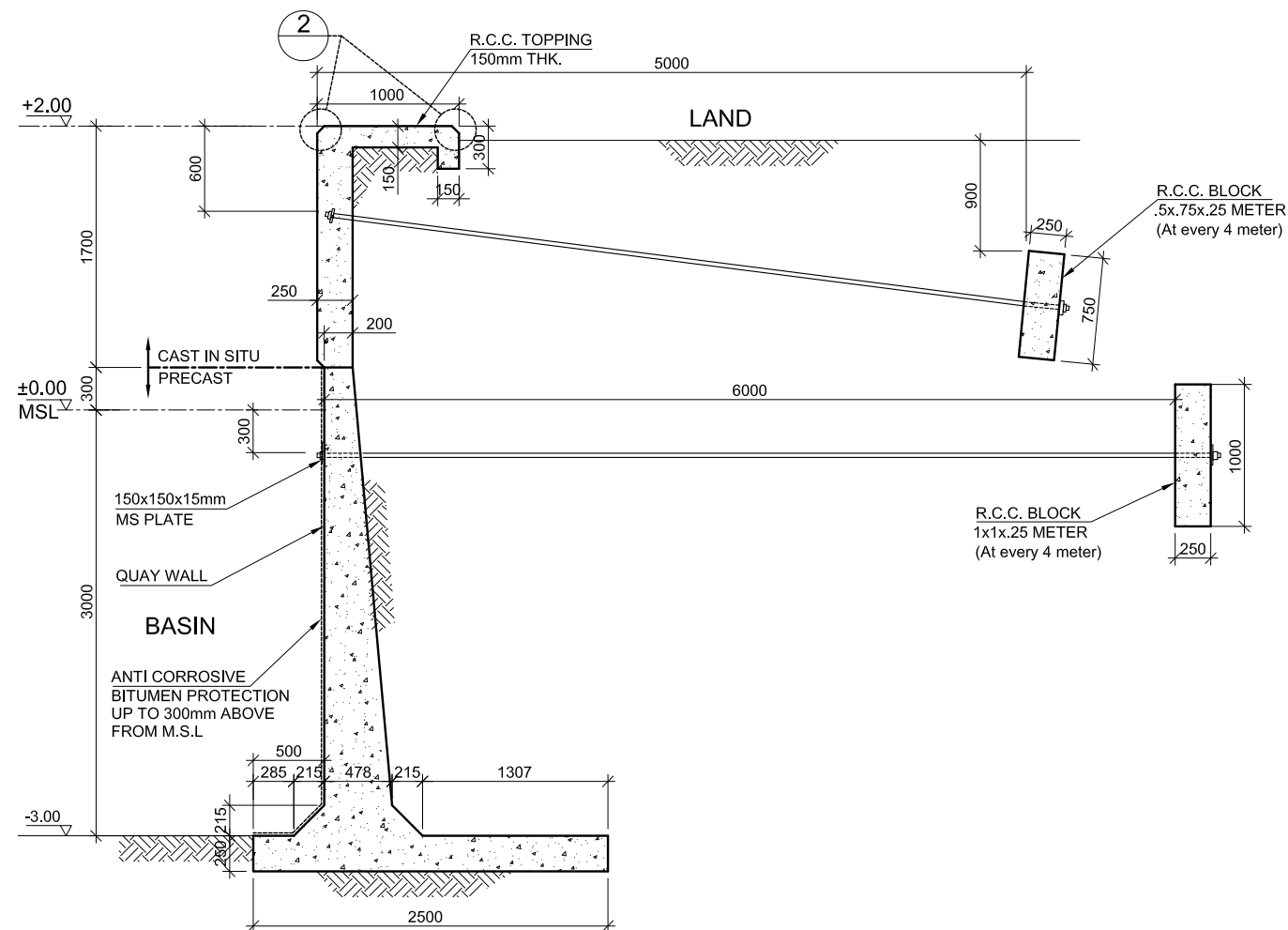
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| PROJECT: | | | | | |
| RECONSTRUCTION OF HARBORS PHASE-2 | | | | | |

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| DRAWING TITLE: | | | | | |
| R.INNAMAADHOO HARBOUR DREDGING PLAN | | | | | |

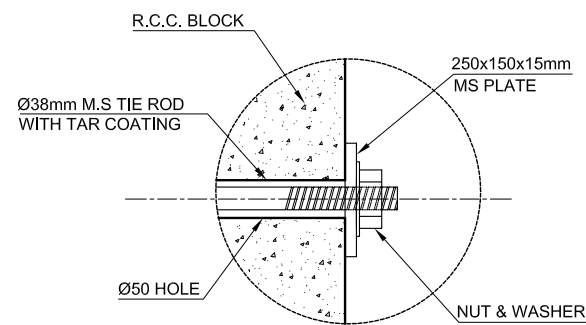
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| SS | JP | MS | MA | 1:1000 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. IM-CI-04 | | | |
| K-601 | 1 OF 1 | | | | |
| REV. No. | 0 | | | | |



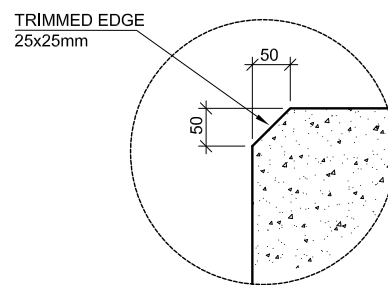
TYPICAL PLAN
SCALE 1 : 50



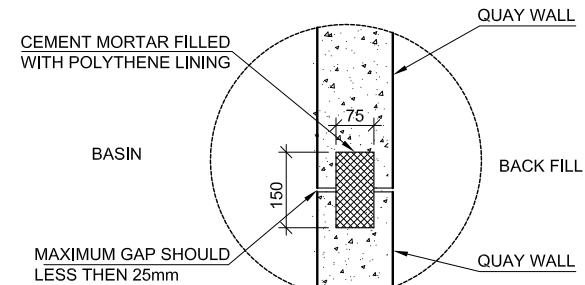
SECTION-A
SCALE 1 : 50



DETAIL-1



DETAIL-2



DETAIL-3

NOTES:

1 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER
UNLESS OTHERWISE SHOWN

| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
|------|----------|----------------------------|-------|-------|--------|
| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| 0 | 20-06-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |

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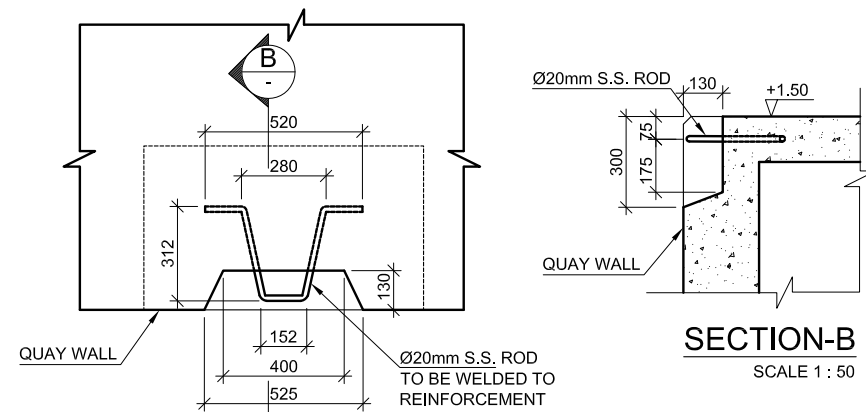
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PROJECT:
RECONSTRUCTION OF HARBORS
PHASE-2

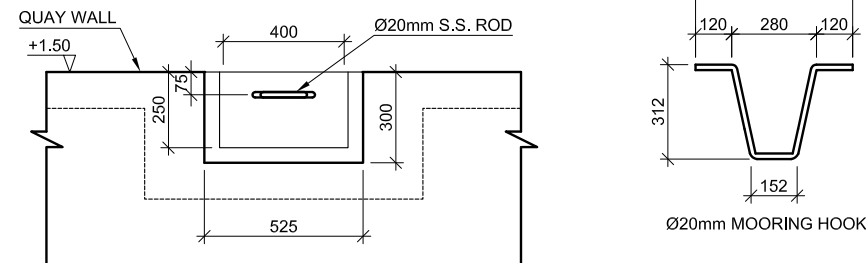
DRAWING TITLE:
R.INNAMAADHOO HARBOUR
QUAY WALL DETAILS

| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
|-------------|-----------|-----------------------------|----------|-------|-----------|
| SS | JP | MS | MA | 1:50 | 20-06-'14 |
| PROJECT No. | SHEET No. | DRAWING No. IM-CI-05 | | | |
| K-601 | 1 OF 6 | | | | |
| REV. No. | 0 | | | | |

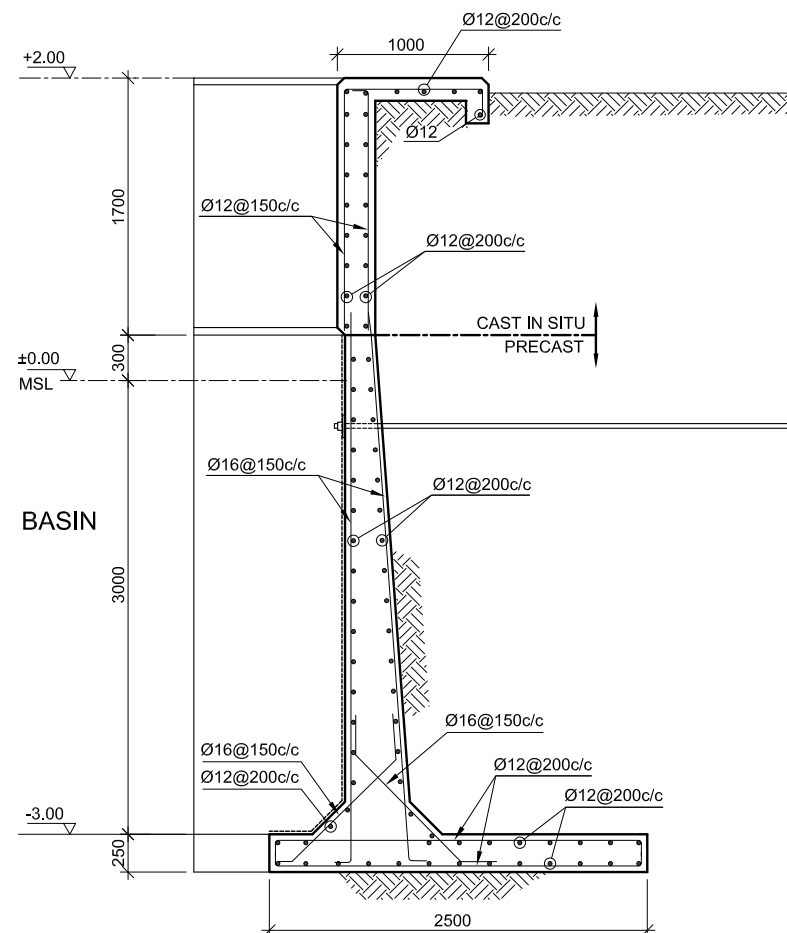
IM-CI-05



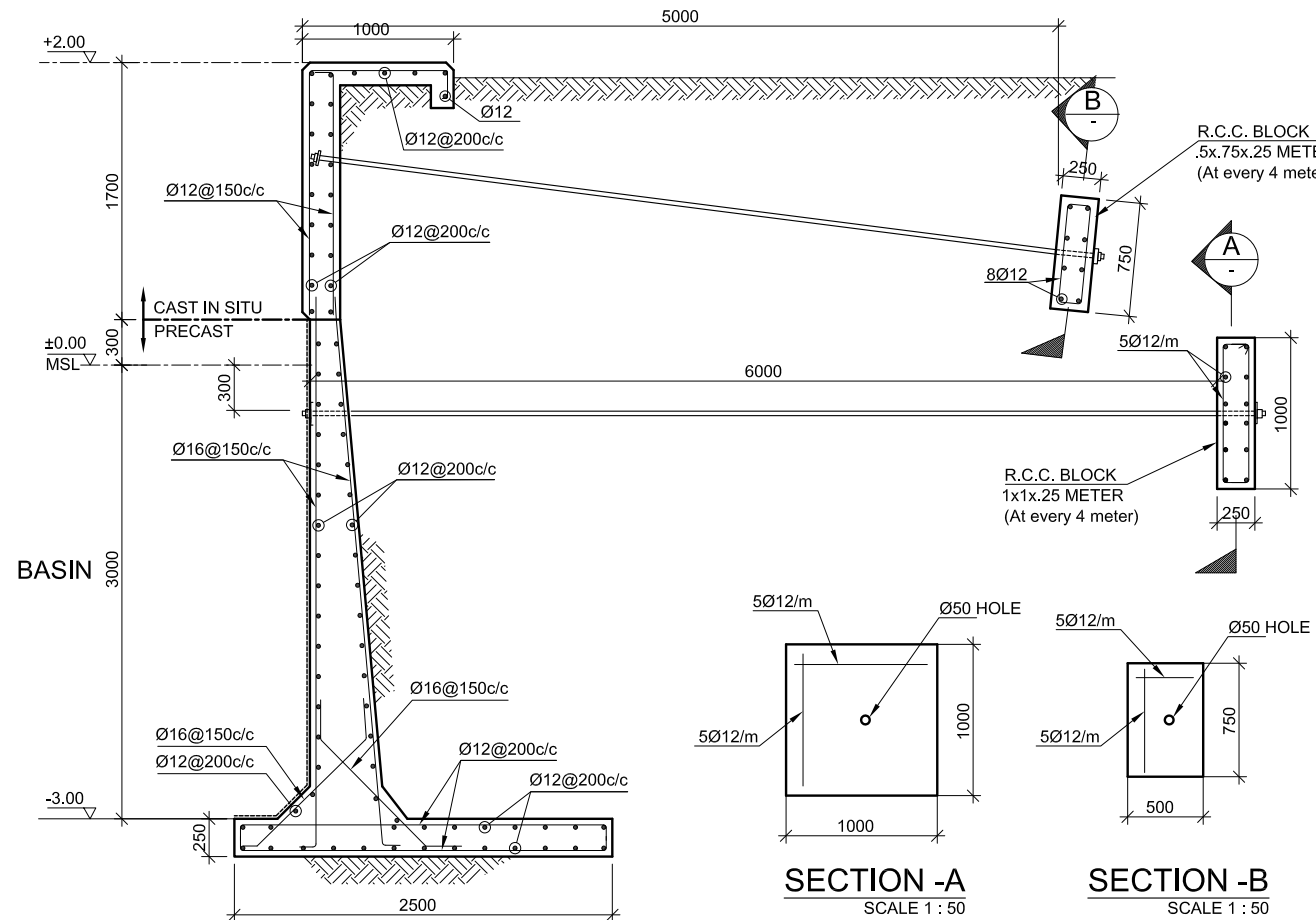
MOORING HOOK PLAN
SCALE 1 : 50



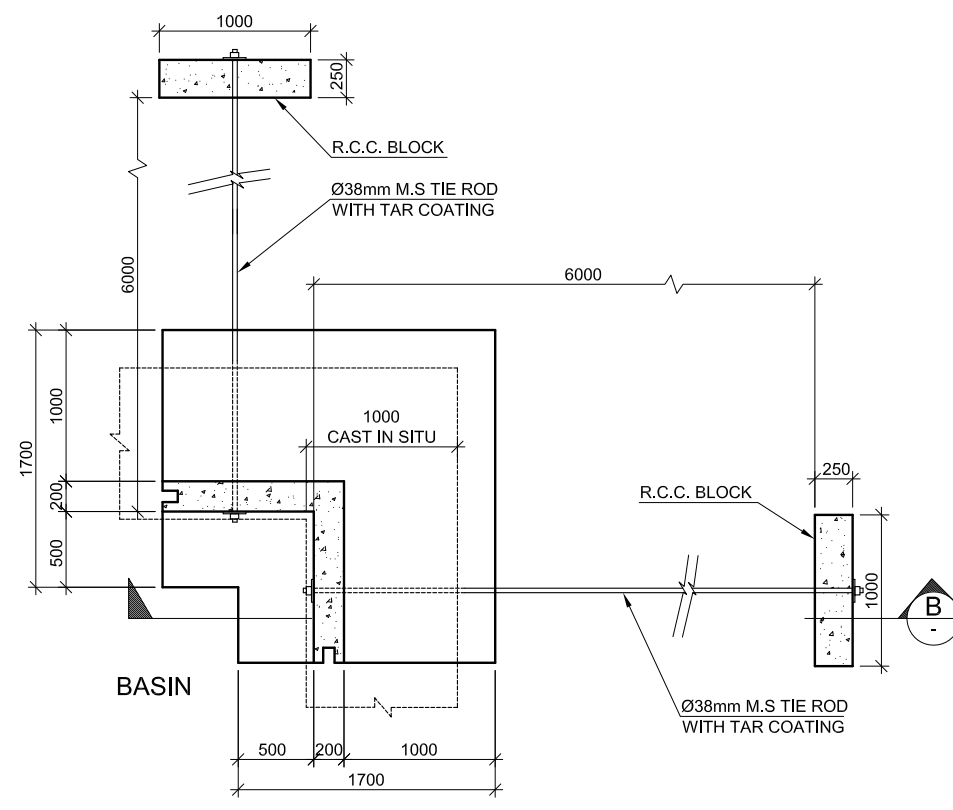
MOORING HOOK ELEVATION
SCALE 1 : 50



SECTION-B
SCALE 1 : 50



REINFORCEMENT DETAILS - QUAYWALL
SCALE 1 : 50



90° CORNER QUAY WALL
SCALE 1 : 50

NOTES:

- 1 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SHOWN
- 2 - PLAIN CEMENT CONCRETE (PCC) SHALL BE OF GRADE C10 (OR 10 N / MM² WHEN COMPRESSIVE STRENGTH AT 28 DAYS)
- 3 - REINFORCED CEMENT CONCRETE (RCC) FOR WATER RETAINING STRUCTURE SHALL BE C40 FOR ALL PRECAST AND C35 FOR ALL CAST IN SITU ELEMENTS (COMPRESSIVE STRENGTH AT 28 DAYS)
- 4 - YIELD STRENGTH OF STEEL REINFORCEMENT SHALL BE 460 N / MM
- 5 - ALL STRUCTURE CONCRETE SHALL BE FROM SULPHATE RESISTANT CEMENT

| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
|------|----------|----------------------------|-------|-------|--------|
| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| 0 | 20-06-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |

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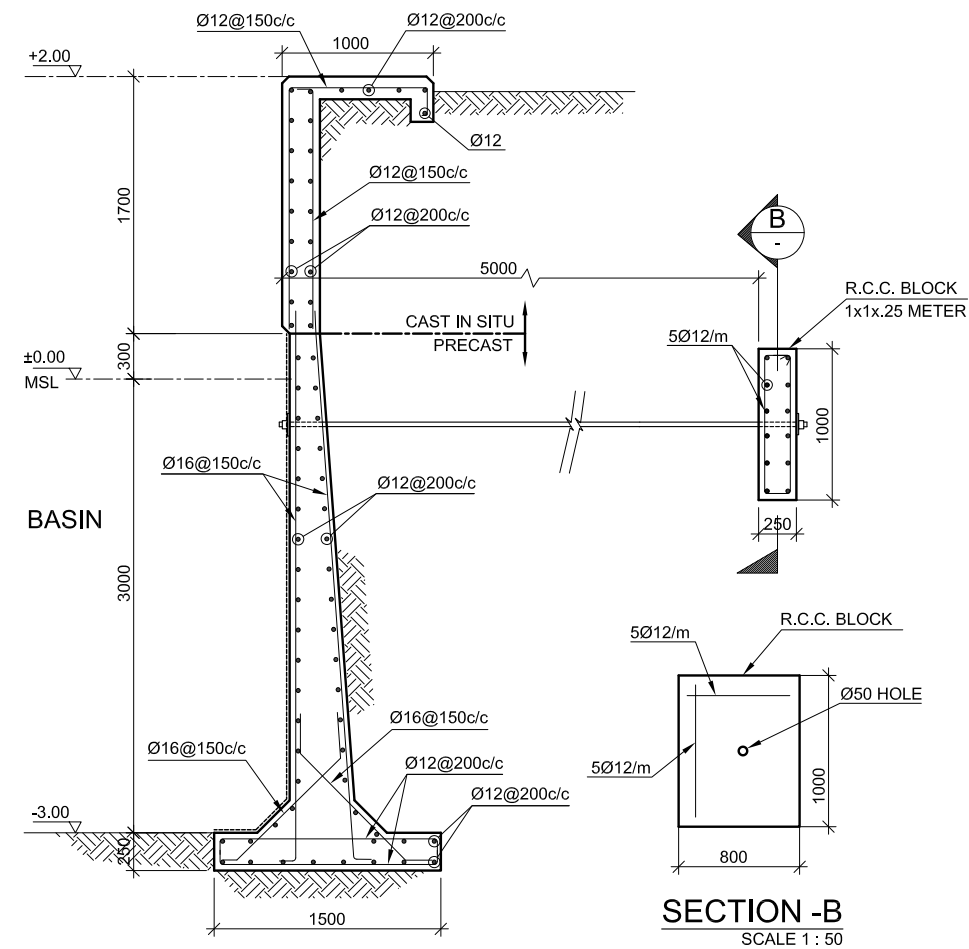
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PROJECT:
RECONSTRUCTION OF HARBORS
PHASE-2

DRAWING TITLE:
R.INNAMAADHOO HARBOUR
QUAY WALL DETAILS

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| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
| SS | JP | MS | MA | 1:50 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. IM-CI-05 | | | |
| K-601 | 2 OF 6 | | | | |
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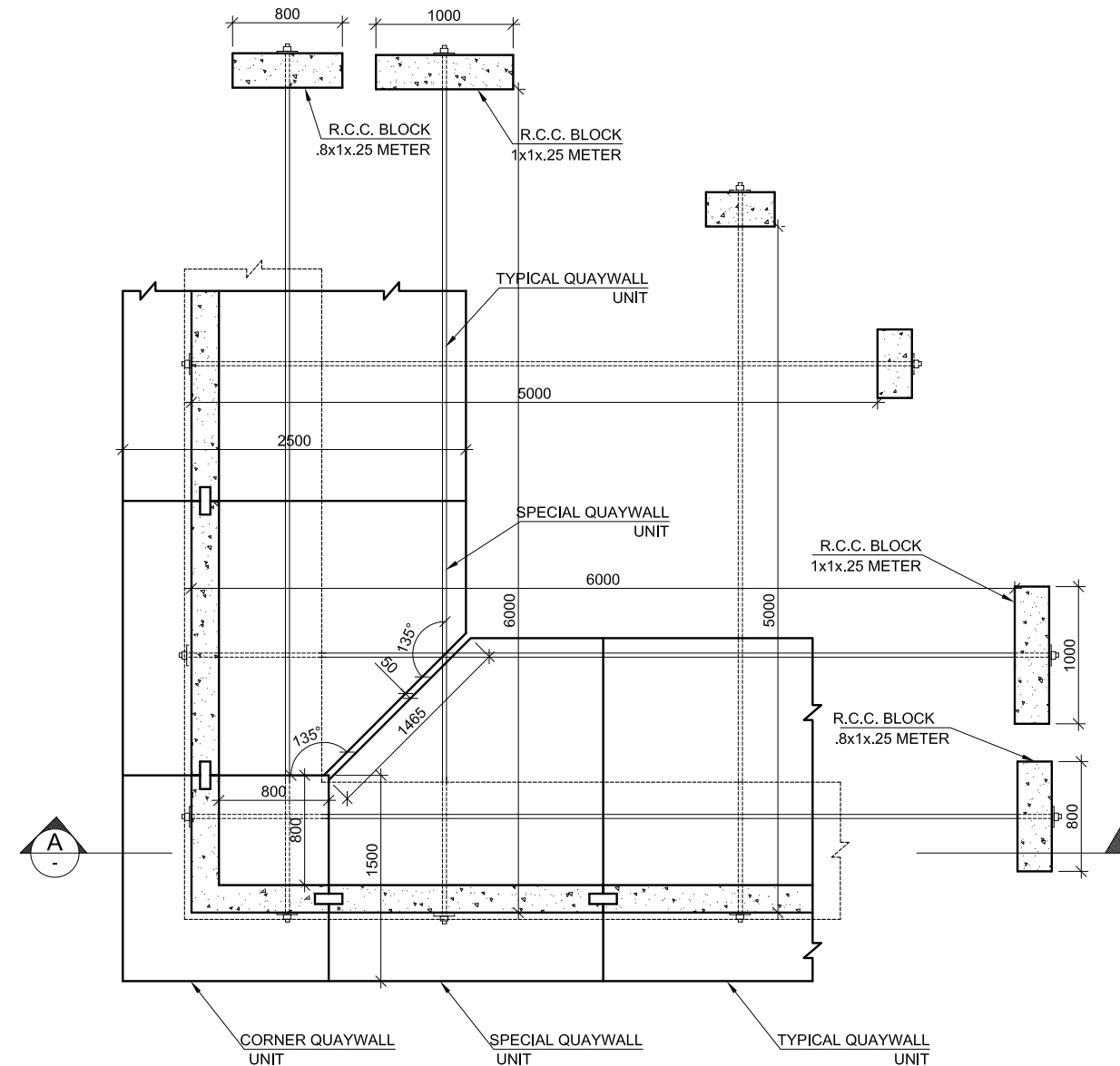
IM-CI-05



SECTION-A
SCALE 1 : 50

SECTION-B
SCALE 1 : 50

270° CORNER QUAY WALL



PLAN
SCALE 1 : 50

NOTES:

- 1 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SHOWN
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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
|------|----------|----------------------------|-------|-------|--------|
| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| 0 | 20.06.14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |

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| PROJECT: |
|--------------------------------------|
| RECONSTRUCTION OF HARBORS PHASE-2 |

| DRAWING TITLE: |
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| R.INNAMAADHOO HARBOUR QUAY WALL DETAILS |

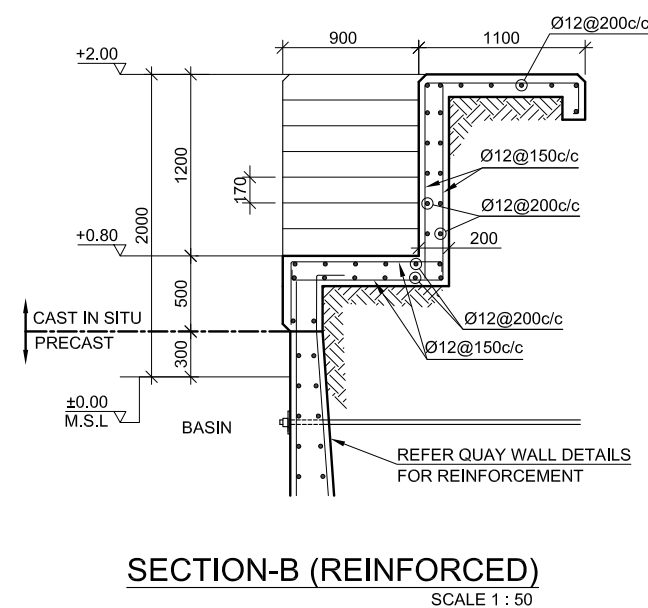
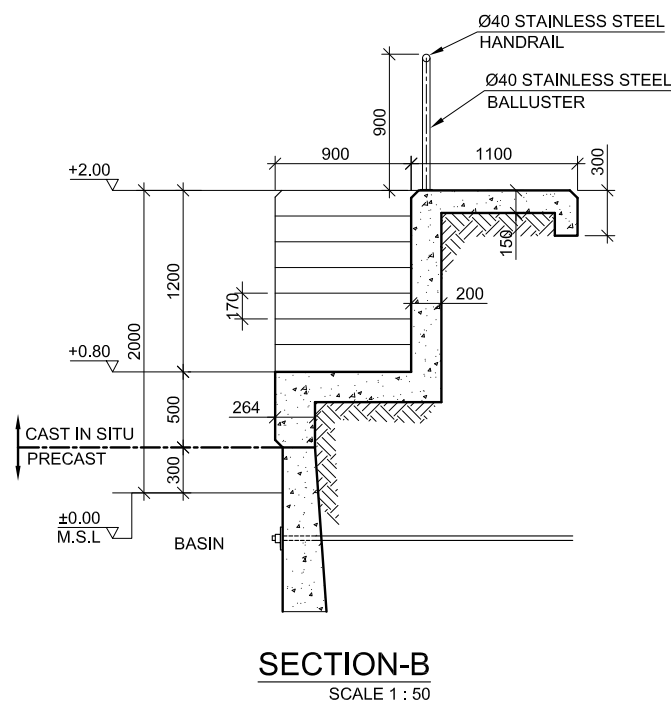
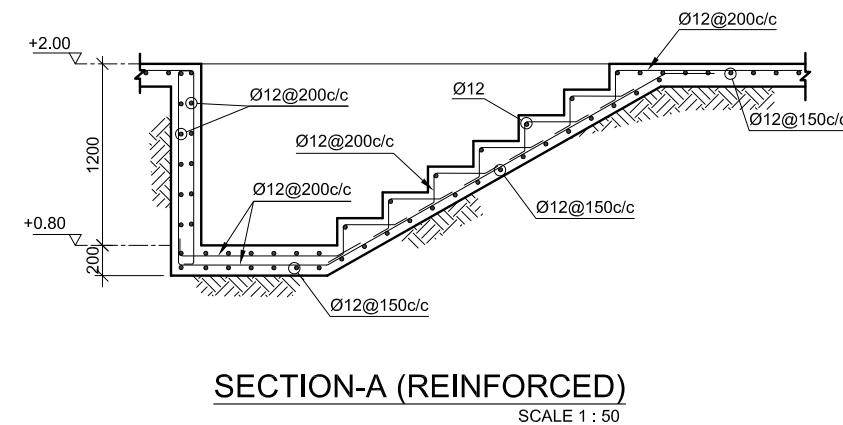
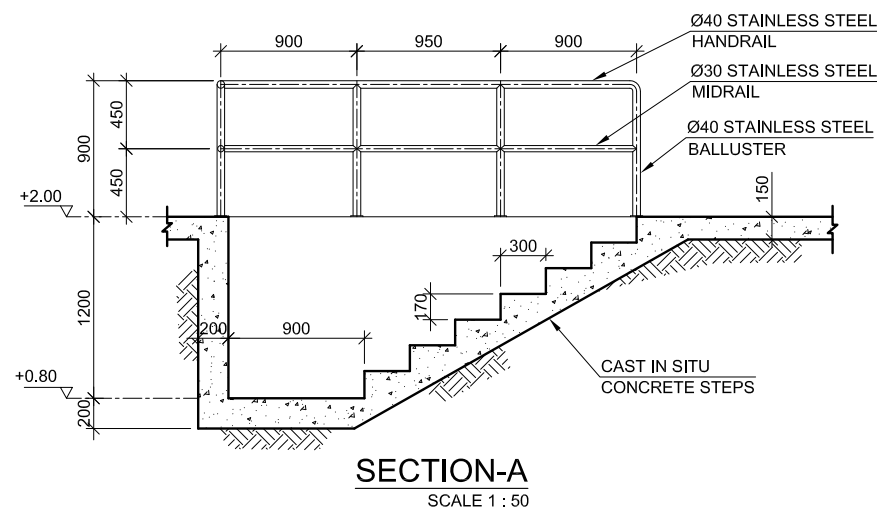
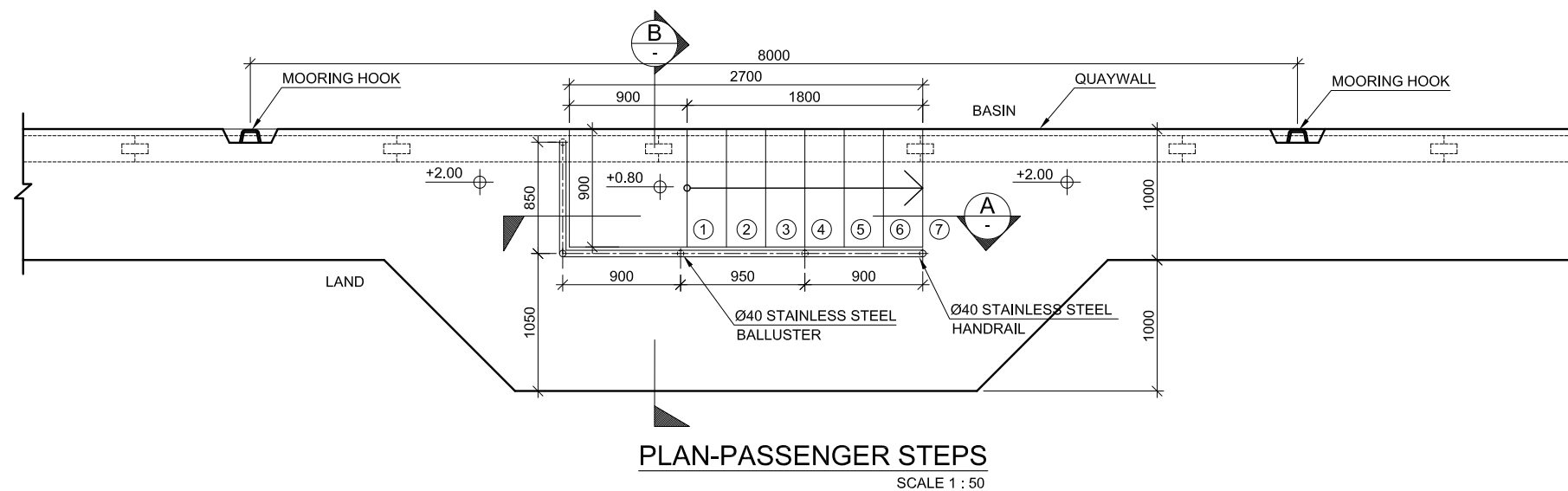
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| SS | JP | MS | MA | 1:50 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. IM-CI-05 | | | |
| K-601 | 3 OF 6 | | | | |
| REV. No. | 0 | | | | |

IM-CI-05



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| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA | |
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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. | |


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| SS | JP | MS | MA | 1:50 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. IM-CI-05 | | | |
| K-601 | 4 OF 6 | | | | |
| REV. No. | 0 | | | | |



NOTES:

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- 5- ALL STRUCTURE CONCRETE SHALL BE FROM SULPHATE RESISTANT CEMENT

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| 0 | 20.06.14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |

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CONSULTANT:
Al-Habshi
Consultant

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P.O.Box 27154 Safat 13132 - Kuwait

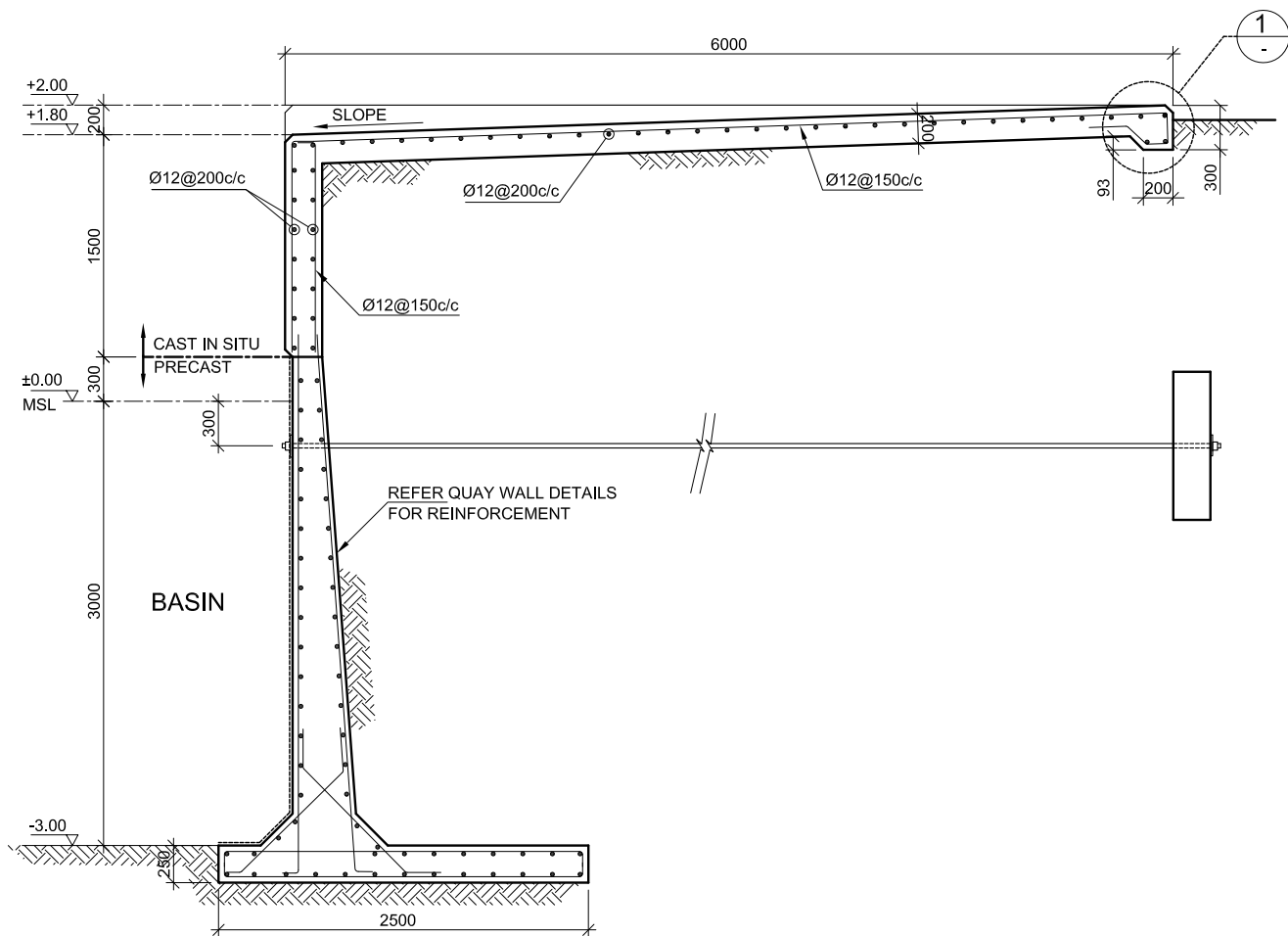
PROJECT:

RECONSTRUCTION OF HARBORS

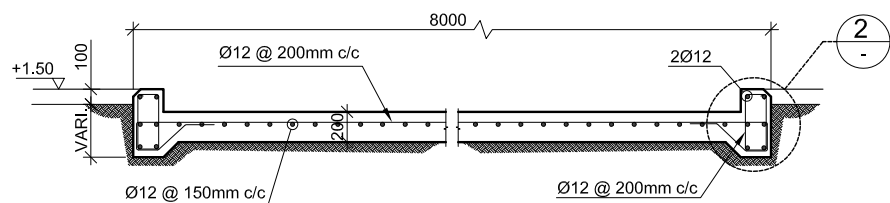
PHASE-2

DRAWING TITLE:
**R.INNAMAADHOO HARBOUR
QUAY WALL DETAILS**

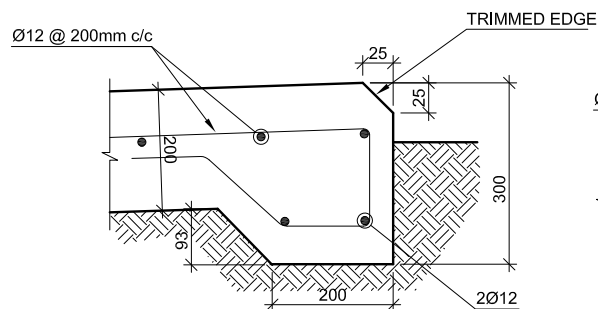
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| K-601 | 5 OF 6 | | | | |
| REV. No. | 0 | | | | |



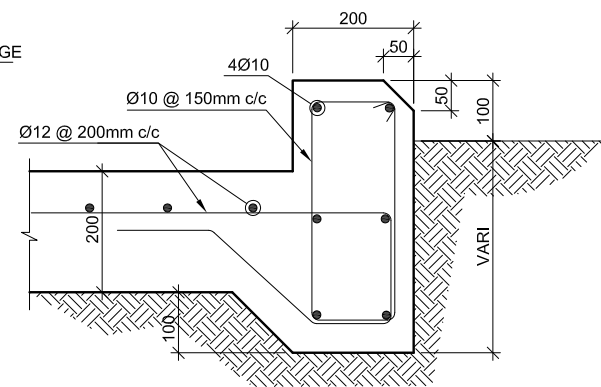
SECTION-A
SCALE 1 : 50



SECTION-B
SCALE 1 : 50

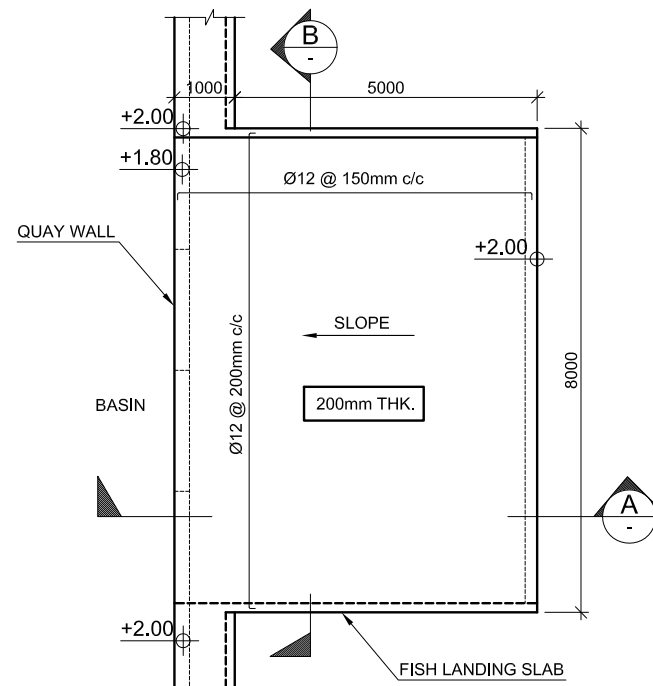


DETAIL-1
SCALE 1 : 10



DETAIL-2
SCALE 1 : 10

FISH LANDING DETAILS



PLAN
SCALE 1 : 25

NOTES:

- 1 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SHOWN
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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
|------|----------|----------------------------|-------|-------|--------|
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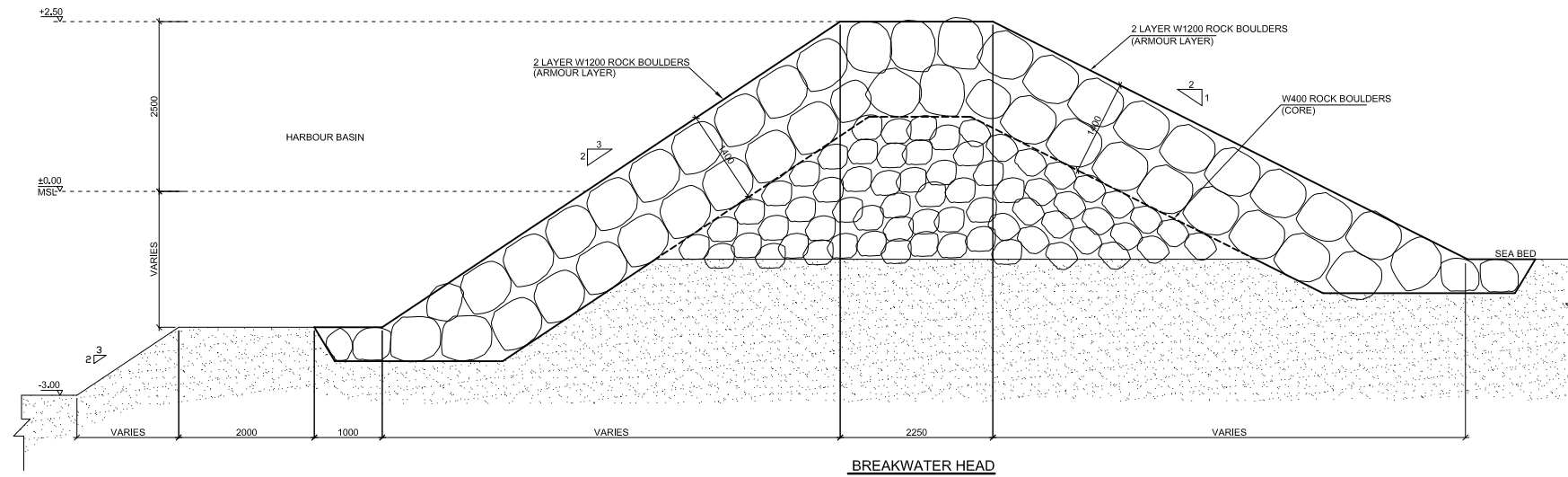
| CLIENT | REVISION |
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| MINISTRY OF HOUSING & INFRASTRUCTURE REPUBLIC OF MALDIVES | |

| CONSULTANT: | Al-Habshi Consultants Office |
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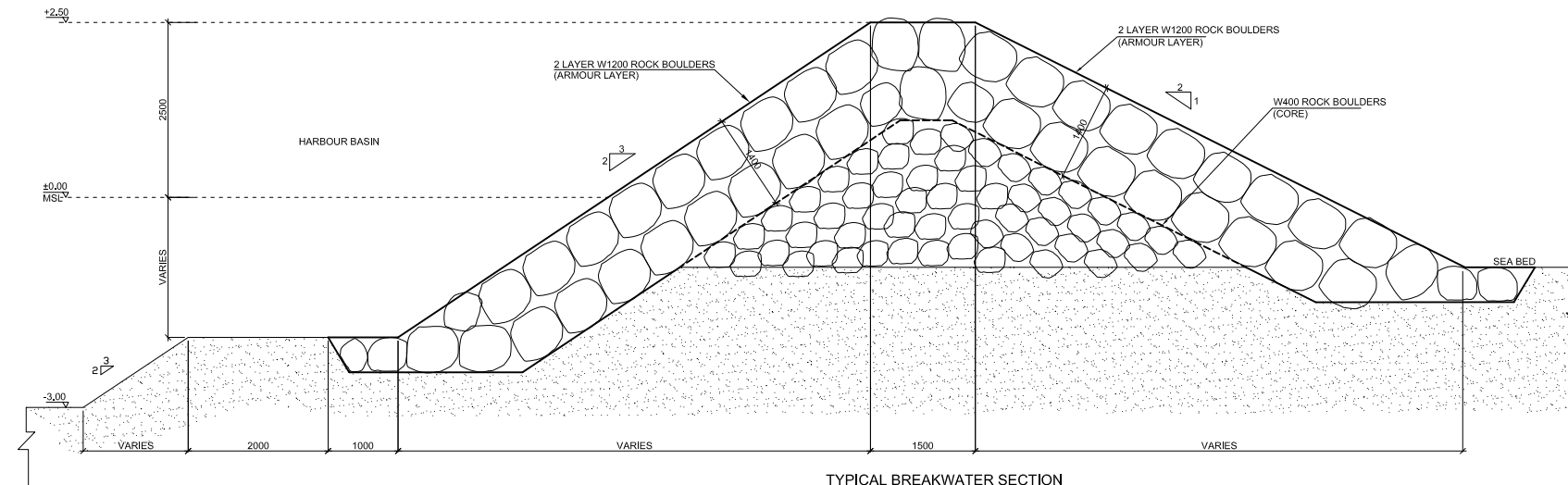
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| DRAWING TITLE: | R.INNAMAADHOO HARBOUR QUAY WALL DETAILS |
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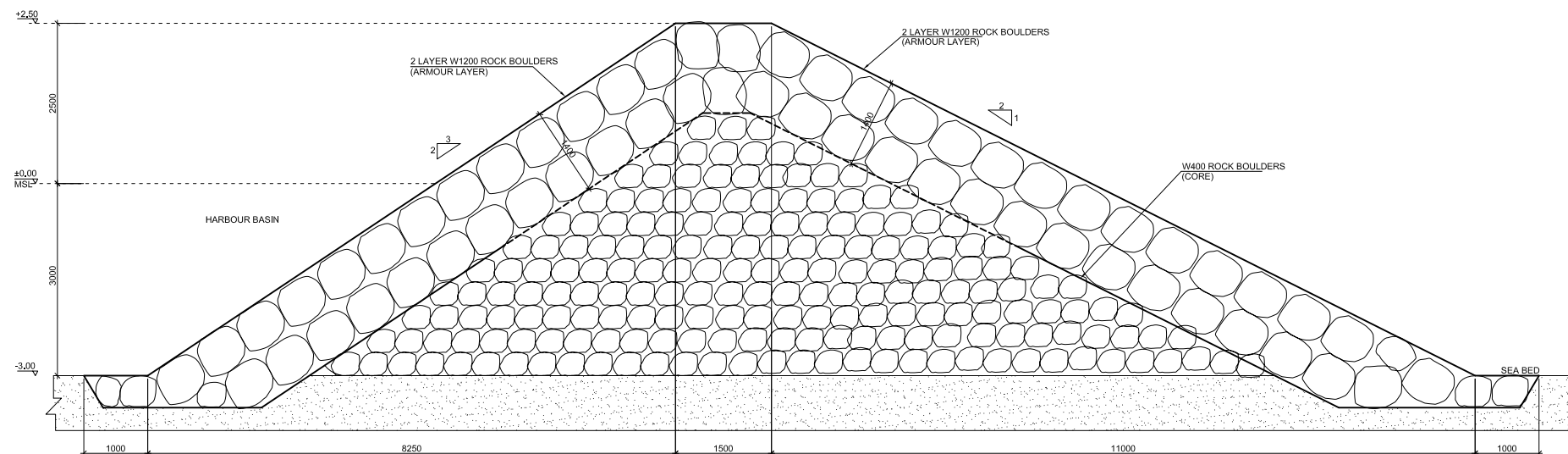
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| SS | JP | MS | MA | 1:50 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. | | | |
| K-601 | 6 OF 6 | IM-CI-05 | | | |
| REV. No. | 0 | | | | |



BREAKWATER HEAD



TYPICAL BREAKWATER SECTION



BREAKWATER SECTION AT EXISTING ENTRANCE AREA

NOTES:

1 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SHOWN

| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
|------|----------|----------------------------|-------|-------|--------|
| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| 0 | 20-06-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |

REVISION

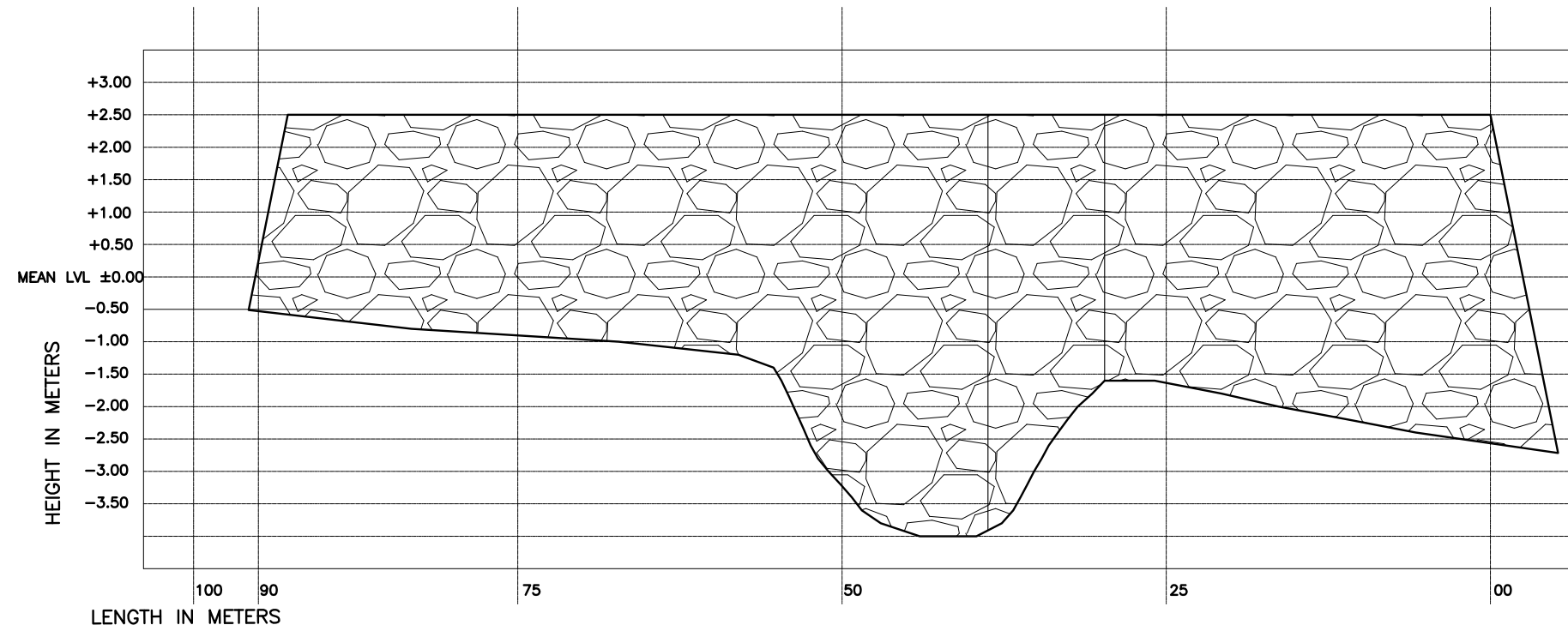
CLIENT
MINISTRY OF HOUSING & INFRASTRUCTURE
REPUBLIC OF MALDIVES

CONSULTANT:
Al-Habshi Consultants Office
Tel.: 2430103 / 2433131 - Fax : 2431136
P.O.Box 27154 Safat 13132 - Kuwait

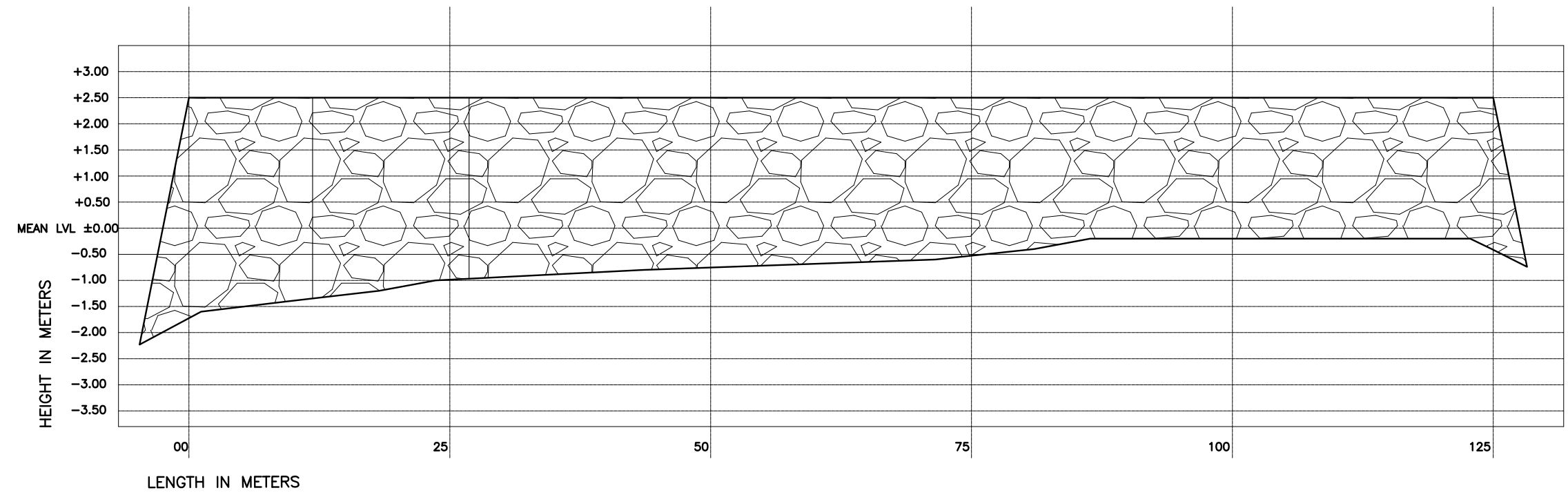
PROJECT:
RECONSTRUCTION OF HARBORS
PHASE-2

DRAWING TITLE:
R.INNAMAADHOO HARBOUR
BREAKWATER DETAILS

| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
|-------------|-----------|-----------------------------|----------|-------|----------|
| SS | JP | MS | MA | 1:50 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. IM-CI-06 | | | |
| K-601 | 1 OF 2 | | | | |
| REV. No. | 0 | | | | |



WEST BREAKWATER PROFILE



EAST BREAKWATER PROFILE

NOTES:

1 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER
UNLESS OTHERWISE SHOWN

| | | | | | |
|------|----------|----------------------------|-------|-------|--------|
| .. | .. | .. | .. | .. | .. |
| - | .. | .. | .. | .. | .. |
| - | - | - | - | - | - |
| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| 0 | 20.06.14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |

REVISION

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REPUBLIC OF MALDIVES

CONSULTANT:



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P.O.Box 27154 Safat 13132 - Kuwait

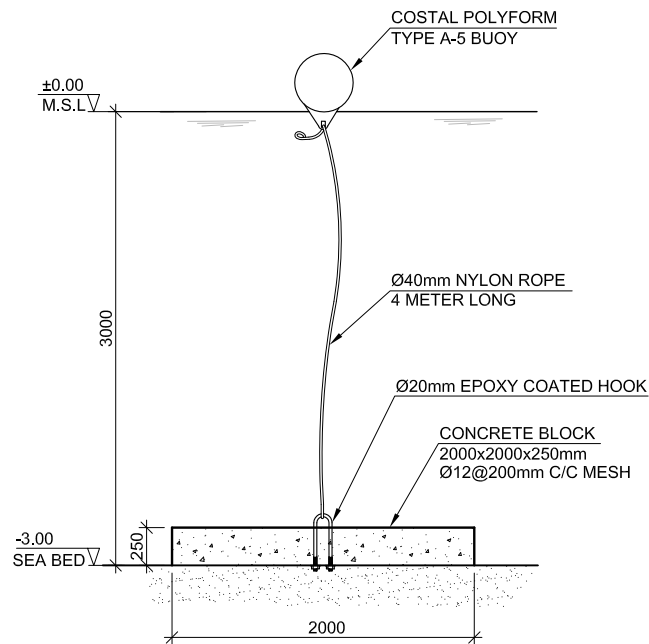
PROJECT:

RECONSTRUCTION OF HARBORS
PHASE-2

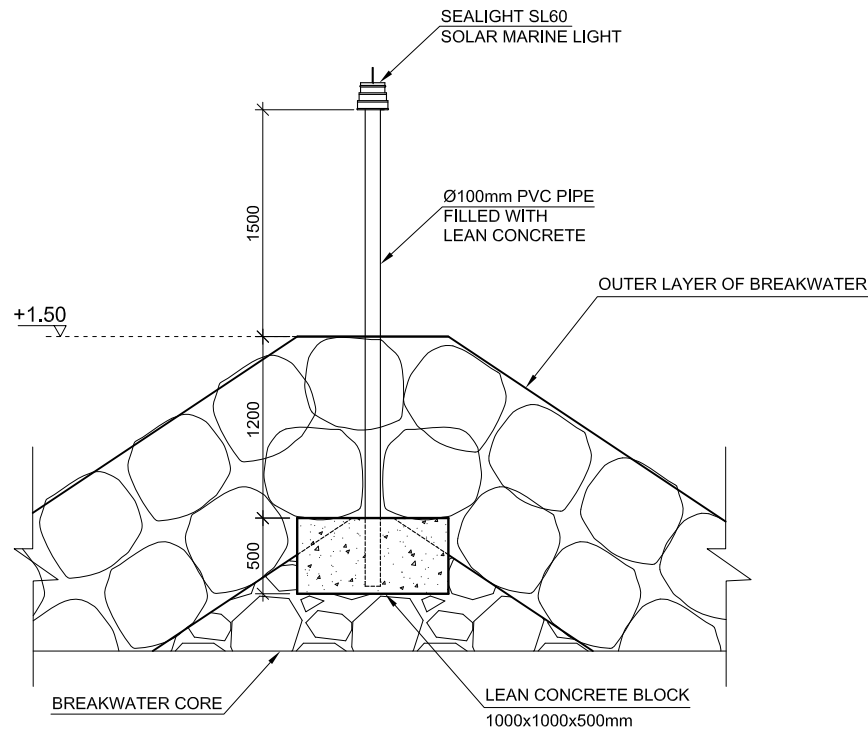
DRAWING TITLE:

R.INNAMAADHOO HARBOUR
BREAKWATER DETAILS

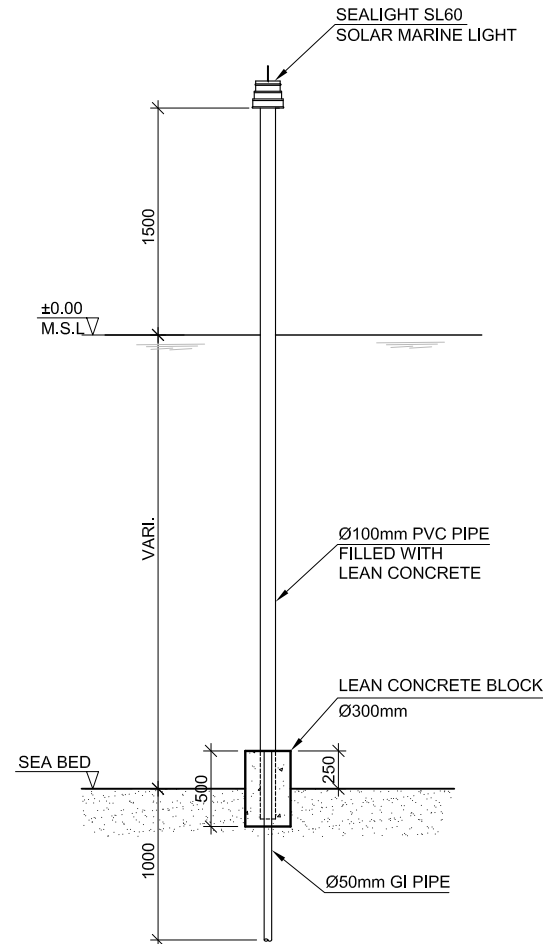
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| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
| SS | JP | MS | MA | 1:50 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. | | | |
| K-601 | 2 OF 2 | IM-CI-06 | | | |
| REV. No. | 0 | | | | |



MOORING BUOY / MARKER BUOY
SCALE 1 : 50




**NAVIGATION LIGHT INSTALATION
AT BREAKWATER HEAD** SCALE 1 : 50



**NAVIGATION LIGHT INSTALATION
AT REEF** SCALE 1 : 50

NOTES:
1 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER
UNLESS OTHERWISE SHOWN

| | | | | | |
|------|----------|----------------------------|-------|-------|--------|
| .. | .. | .. | .. | .. | .. |
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| - | - | - | - | - | - |
| 1 | 29-09-14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| 0 | 20.06.14 | DETAILED DESIGN SUBMISSION | JP | SS | MA |
| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |

| REVISION | | | | | |
|--|-----------|-------------|----------|-------|----------|
| CLIENT | | | | | |
|  MINISTRY OF HOUSING & INFRASTRUCTURE REPUBLIC OF MALDIVES | | | | | |
| CONSULTANT: | | | | | |
|  Al-Habshi Consultants Office Tel.: 2430103 / 2433131 - Fax : 2431136 P.O.Box 27154 Safat 13132 - Kuwait | | | | | |
| PROJECT: | | | | | |
| RECONSTRUCTION OF HARBORS PHASE-2 | | | | | |
| DRAWING TITLE: | | | | | |
| R.INNAMAADHOO HARBOUR TYPICAL DETAILS | | | | | |
| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
| SS | JP | MS | MA | 1:50 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. | | | |
| K-601 | 1 OF 1 | IM-CI-07 | | | |
| REV. No. | 0 | | | | |