

| Hdh. NOLHIVARAMFARU HARBOUR | | |
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| LIST OF DRAWINGS | | |
| DWG. NOS | DRAWING TITLES | REV. NO |
| NF-CI-00 | LIST OF DRAWINGS | 0 |
| NF-CI-01 | EXISTING SITE PLAN OF PROPOSED AREA | 0 |
| NF-CI-01a | LOCATION PLAN | 0 |
| NF-CI-02 | NEW DESIGN LAYOUT | 0 |
| NF-CI-03 | NEW ENTRANCE CHANEL LAYOUT | 0 |
| NF-CI-04 | DREDGING PLAN | 0 |
| NF-CI-05 | QUAY WALL DETAILS (SHEET 1 OF 4) | 0 |
| NF-CI-05 | QUAY WALL DETAILS (SHEET 2 OF 4) | 0 |
| NF-CI-05 | QUAY WALL DETAILS (SHEET 3 OF 4) | 0 |
| NF-CI-05 | QUAY WALL DETAILS (SHEET 4 OF 4) | 0 |
| NF-CI-06 | BREAKWATER DETAILS (SHEET 1 OF 2) | 0 |
| NF-CI-06 | BREAKWATER DETAILS (SHEET 2 OF 2) | 0 |
| NF-CI-07 | TYPICAL DETAILS | 0 |
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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPROD. |
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REVISION

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| CLIENT | MINISTRY OF HOUSING & INFRASTRUCTURE REPUBLIC OF MALDIVES |
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| CONSULTANT: | Al-Habshi Consultants Office <small>Tel.: 2430103 / 2433131 - Fax : 2431136 P.O.Box 27154-Suite 13132 - Kuwait</small> |
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| PROJECT: | RECONSTRUCTION OF HARBORS PHASE-2 |
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| DRAWING TITLE: | Hdh.NOLHIVARAMFARU HARBOUR LIST OF DRAWINGS |
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| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
|-------------------|-------|------------------|----------|-----------------|----------|
| SS | JP | MS | MA | N.T.S | 20-06-14 |
| PROJECT No. K-601 | | SHEET No. 1 OF 1 | | NF-CI-00 | |
| REV. No. | | 0 | | | |



NOTES:


LEGENDS:-

- Benchmark
PBM-1 = +1.0164m(291670.2403E,741284.8646N)
PBM-2 = +1.2511m(291786.0334E,741254.2284N)
- BEACH LINE (TOE OF BEACH)
- EDGE OF VEGETATION
- CONTOUR LINE

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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |

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CLIENT

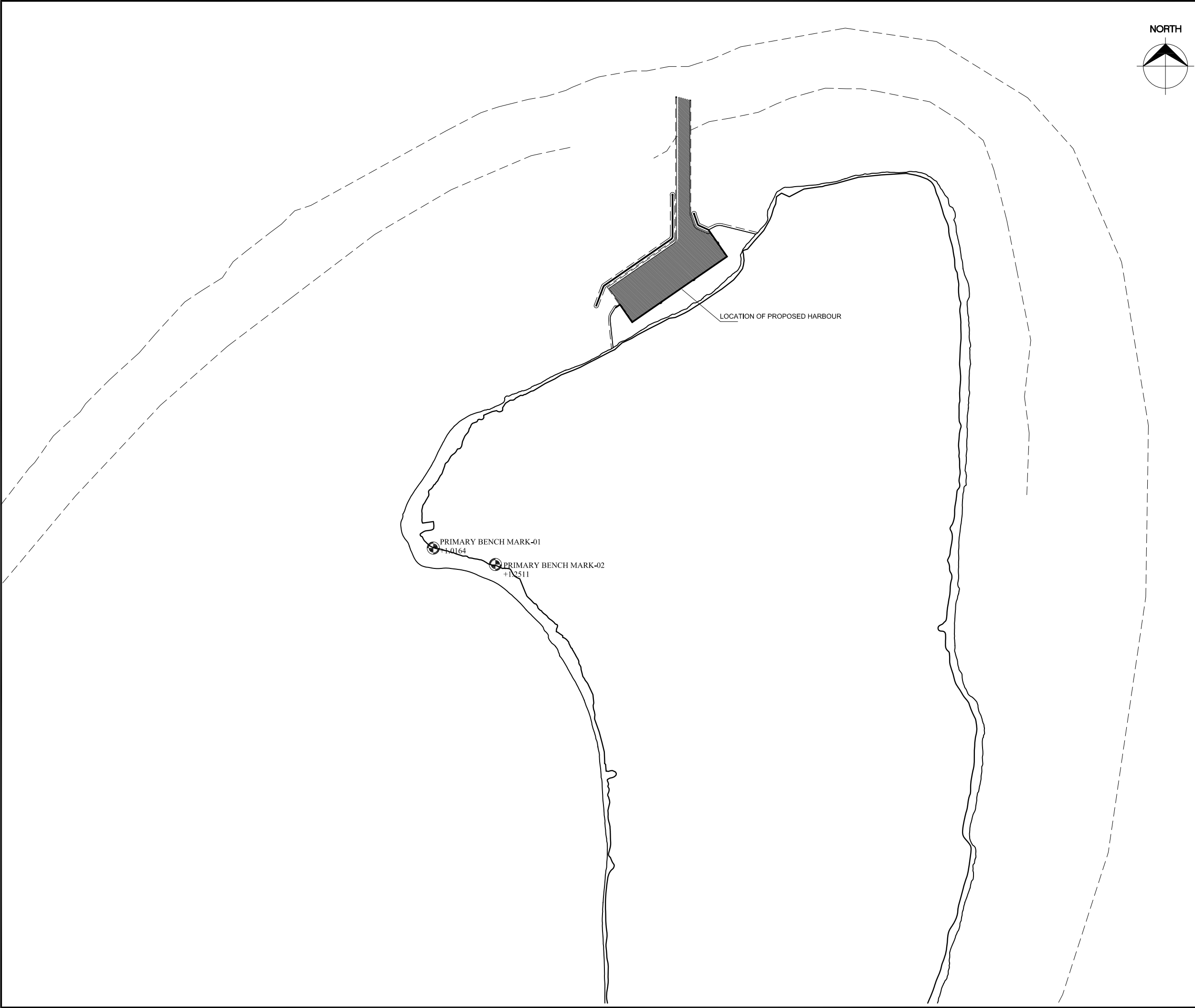
 **MINISTRY OF HOUSING & INFRASTRUCTURE**
REPUBLIC OF MALDIVES

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| PROJECT: | RECONSTRUCTION OF HARBORS PHASE-2 |
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| DRAWING TITLE: | Hdh.NOLHIVARAMFARU HARBOUR EXISTING SITE PLAN OF PROPOSED AREA |
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| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
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| SS | JP | MS | MA | 1:2000 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. | | | |
| K-601 | 1 OF 1 | NF-CI-01 | | | |
| REV. No. | 0 | | | | |

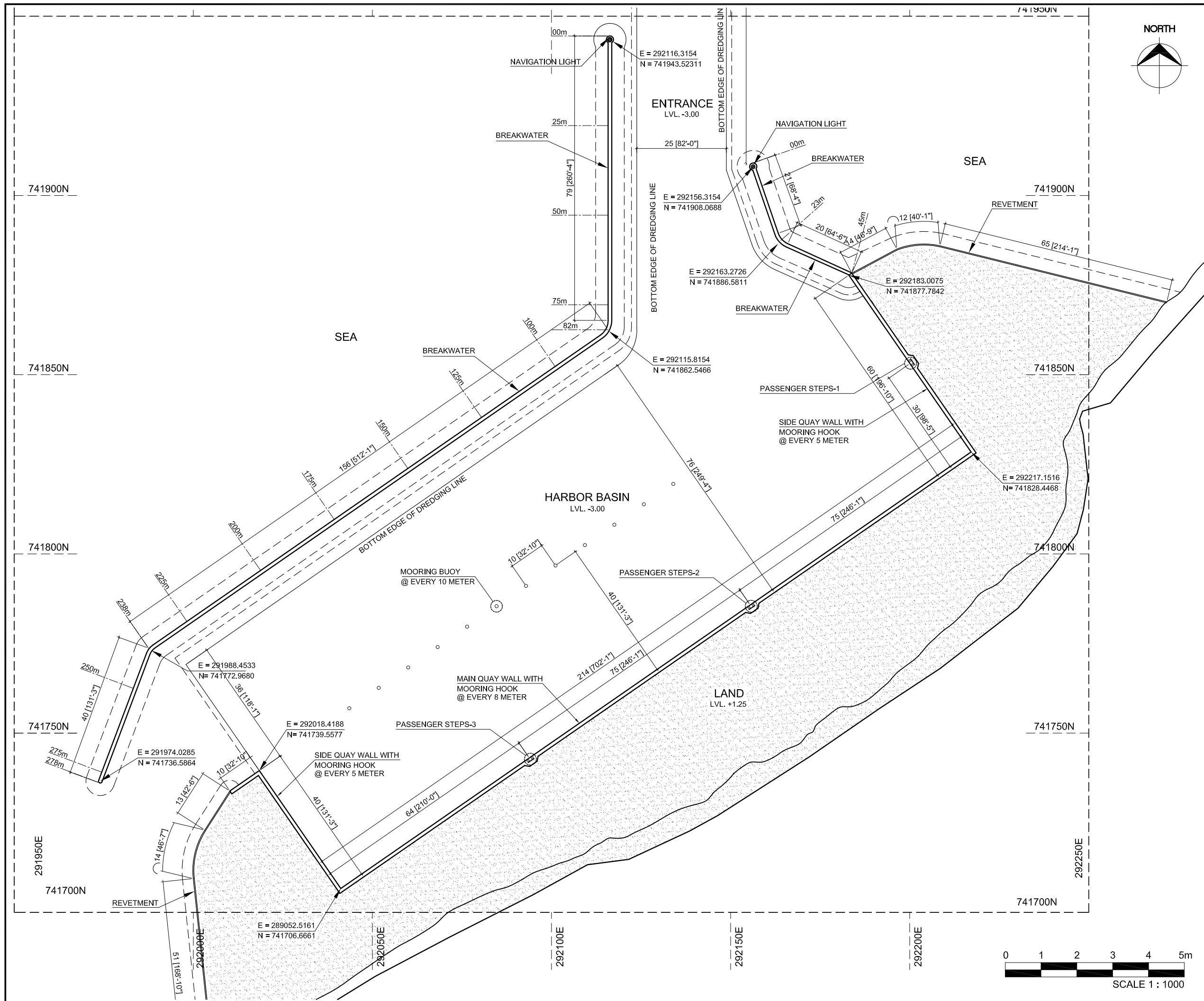


NOTES:

LEGENDS:-

- Benchmark
PBM-1 = +1.0164m(291670.2403E,741284.8646N)
PBM-2 = +1.2511m(291786.0334E,741254.2284N)
- BEACH LINE (TOE OF BEACH)
- EDGE OF VEGETATION
- CONTOUR LINE



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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. | |
| REVISION | | | | | | |
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| PROJECT: | | | | | | |
| RECONSTRUCTION OF HARBORS PHASE-2 | | | | | | |
| DRAWING TITLE: | | | | | | |
| Hdh.NOLHIVARAMFARU HARBOUR LOCATION PLAN | | | | | | |
| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE | |
| SS | JP | MS | MA | - | 20-06-14 | |
| PROJECT No. | SHEET No. | DRAWING No. | | | | |
| K-601 | 1 OF 1 | NF-CI-01a | | | | |
| REV. No. | 0 | | | | | |

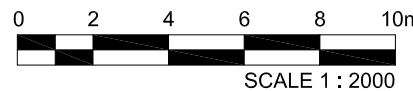
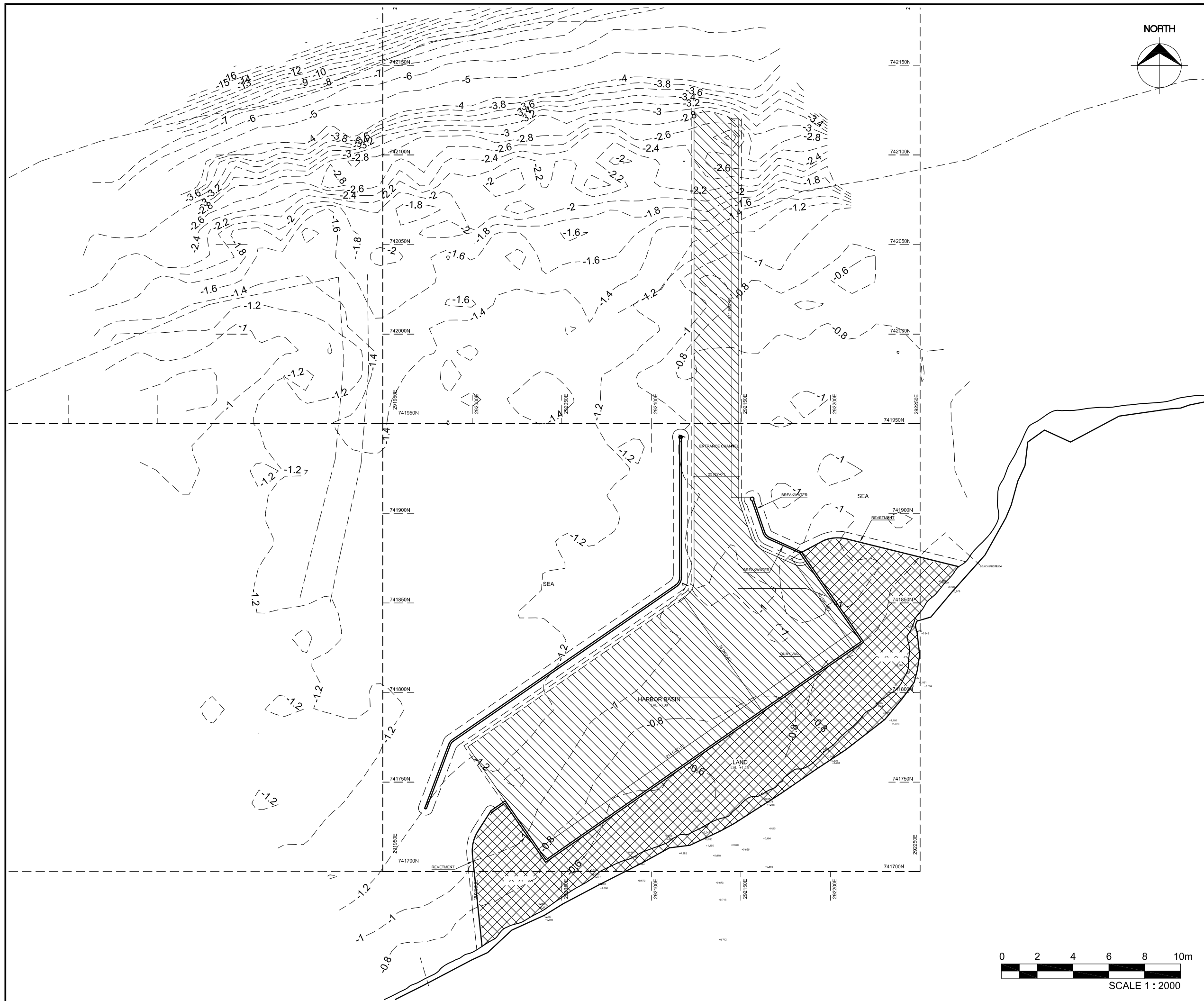


NOTES:
1- ALL DIMENSIONS AND LEVELS ARE IN METER, UNLESS OTHERWISE SHOWN.

LEGENDS:-

- Benchmark
PBM-1 = +1.0164m(291670.2403E,741284.8646N)
PBM-2 = +1.2511m(291786.0334E,741254.2284N)
- BEACH LINE (TOE OF BEACH)
- EDGE OF VEGETATION
- CONTOUR LINE

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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
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| PROJECT: | | | | | |
| RECONSTRUCTION OF HARBORS | | | | | |
| PHASE-2 | | | | | |
| DRAWING TITLE: | | | | | |
| Hdh.NOLHIVARAMFARU 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 | NF-CI-02 | | | |
| REV. No. | 0 | | | | |



NOTES:

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

LEGENDS:-



- DREDGING AREA



- BACK FILLING AREA

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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
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CLIENT



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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:

Hdh.NOLHIVARAMFARU HARBOUR
DREDGING PLAN

| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
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| SS | JP | MS | MA | 1:2000 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. NF-CI-04 | | | |
| K-601 | 1 OF 1 | | | | |
| REV. No. | 0 | | | | |



- 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 / MM²
 - 5 - ALL STRUCTURE CONCRETE SHALL BE FROM SULPHATE
RESISTANT CEMENT

[illegible]



MOORING HOOK PLAN

SCALE 1 : 50

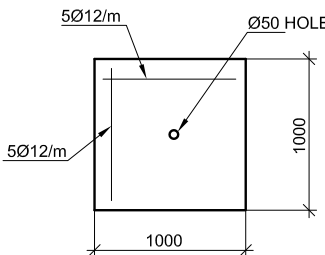


MOORING HOOK ELEVATION

SCALE 1 : 50



SCALE 1 : 50



SECTION -A

SCALE 1 : 50

REINFORCEMENT - TYPICAL QUAY WALL

SCALE 1 : 50



PLAN

SCALE 1 : 50

90° CORNER QUAY WALL


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 / MM²
- 5 - ALL STRUCTURE CONCRETE SHALL BE FROM SULPHATE RESISTANT CEMENT

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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
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MINISTRY OF HOUSING & INFRASTRUCTURE

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COUNT SIGNATURE:


Al-Habshi Consultants Office

Al-Habshi Consultants Office

Tel: +43(0)103 / 2433131 - Fax : +43(1)136
P.O.Box 27154 Safat 13132 - Kuwait

PROJECT:

RECONSTRUCTION OF HARBORS

PHASE-2

DRAWING TITLE:

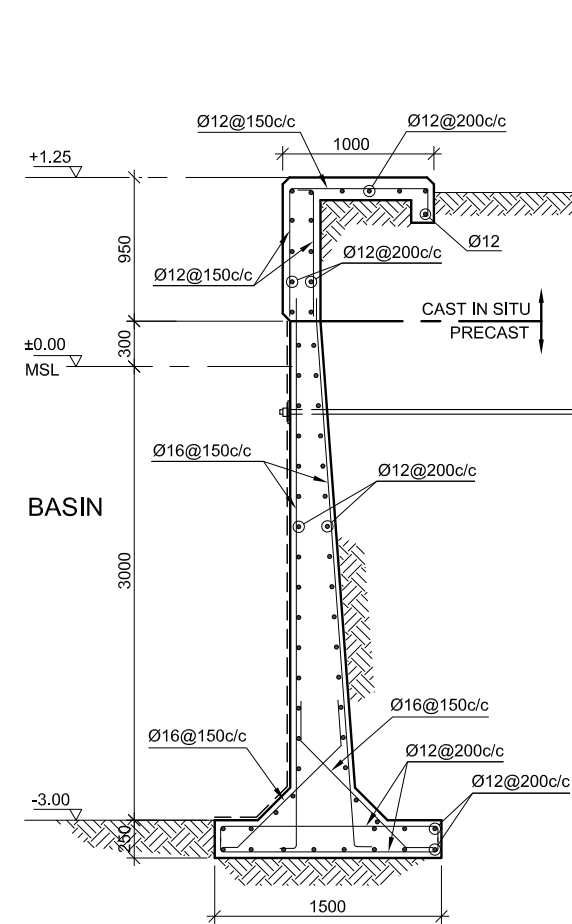
Hdh.NOLHIVARAMFARU HARBOUR QUAY WALL DETAILS

| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
|----------|-------|---------|----------|-------|-----------|
| SS | JP | MS | MA | 1:50 | 20-06-'14 |

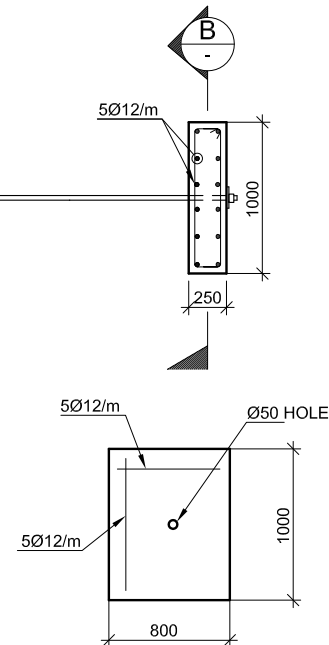
PROJECT No. SHEET No. DRAWING No.

K-601
2 OF 4
NF-CI-05

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| REV. No. | 0 |
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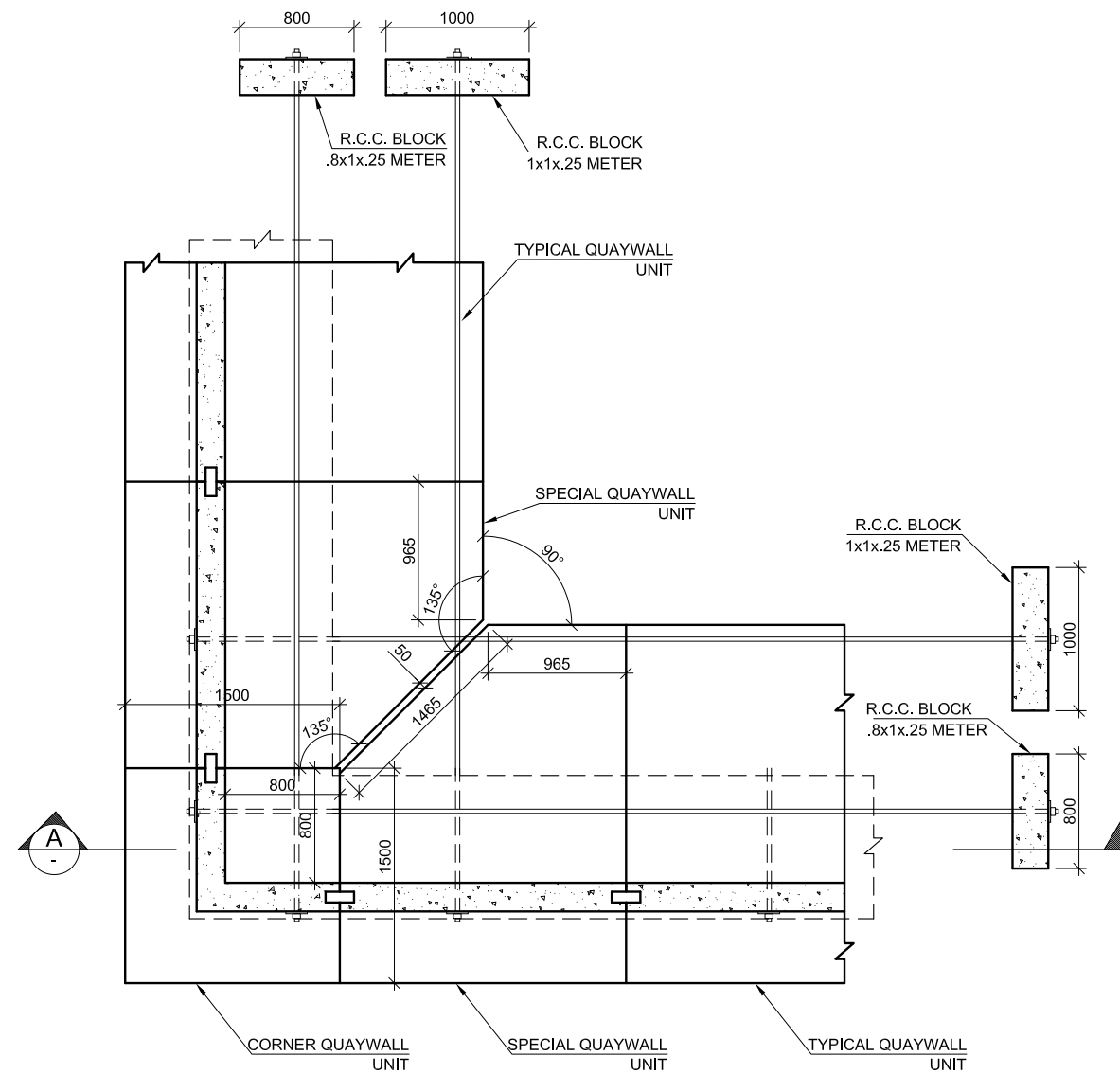


SECTION-A
SCALE 1 : 50



SECTION-B
SCALE 1 : 50



270° CORNER QUAY WALL

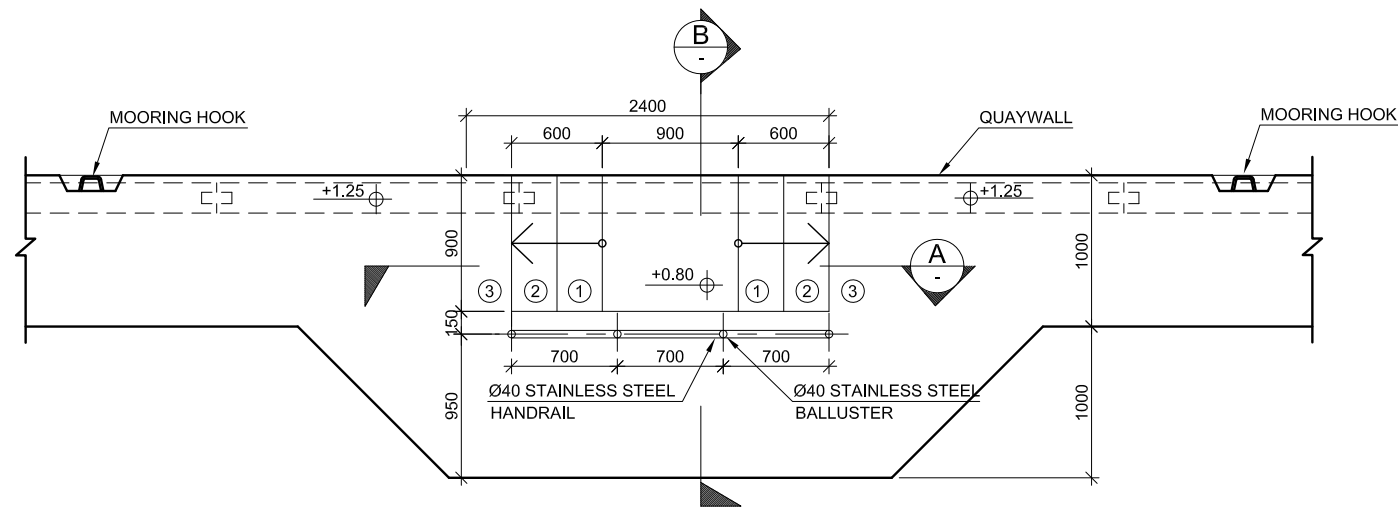


PLAN
SCALE 1 : 50

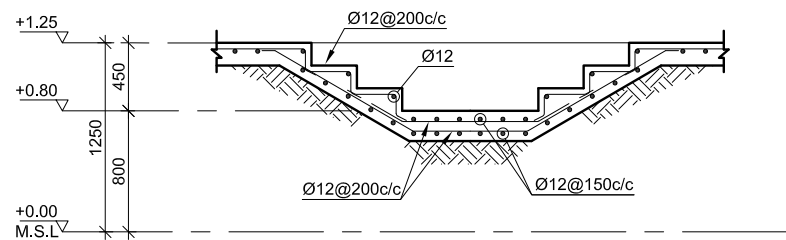
NOTES:

- 1 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SHOWN
- 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 / MM²
- 5 - ALL STRUCTURE CONCRETE SHALL BE FROM SULPHATE RESISTANT CEMENT

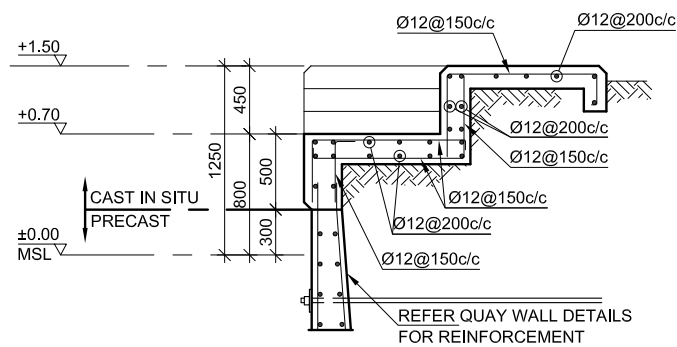
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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
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| PROJECT: | | | | | |
| RECONSTRUCTION OF HARBORS PHASE-2 | | | | | |
| DRAWING TITLE: | | | | | |
| Hdh.NOLHIVARAMFARU HARBOUR QUAY WALL DETAILS | | | | | |
| DESIGNED | DRAWN | CHECKED | APPROVED | SCALE | DATE |
| SS | JP | MS | MA | 1:50 | 20-06-14 |
| PROJECT No. | SHEET No. | DRAWING No. | | | |
| K-601 | 3 OF 4 | NF-CI-05 | | | |
| REV. No. | 0 | | | | |



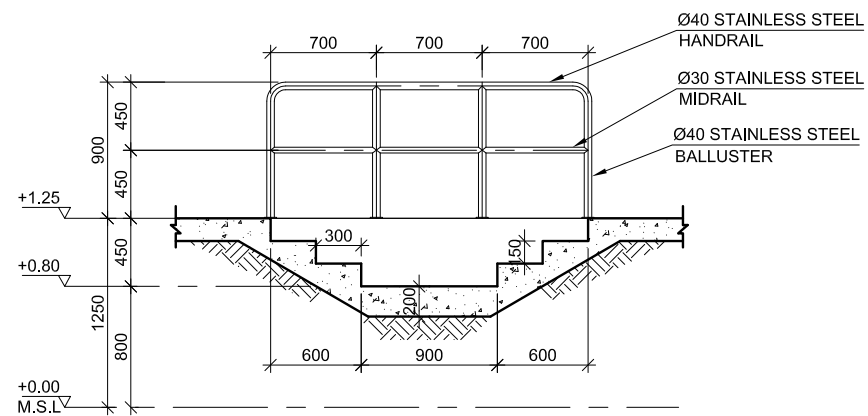
PLAN
SCALE 1 : 50



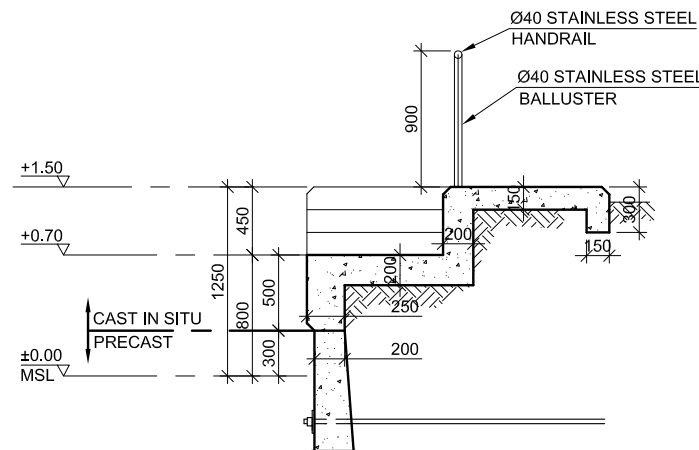
SECTION-A (REINFORCED)
SCALE 1 : 50



SECTION-B (REINFORCED)
SCALE 1 : 50



SECTION-A
SCALE 1 : 50





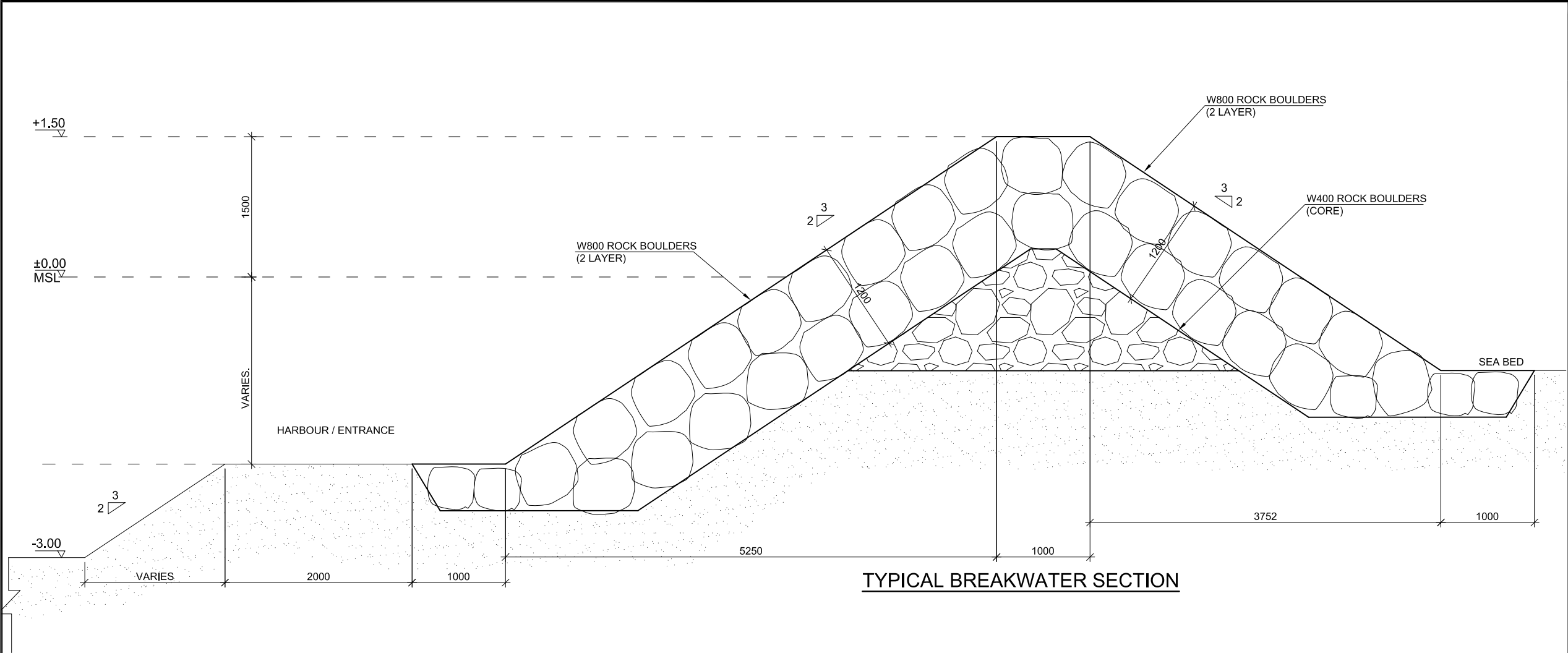
SECTION-B
SCALE 1 : 50

DETAILS OF PASSENGER STEPS

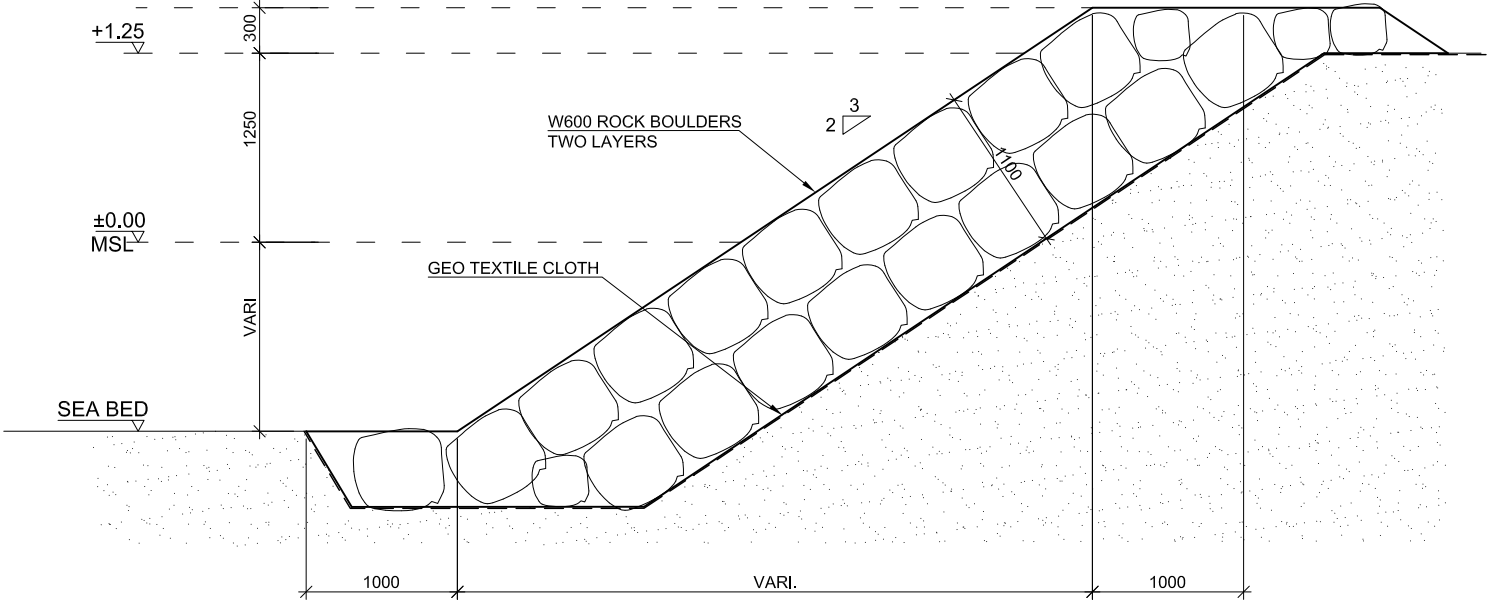
NOTES:

- 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 / MM²
- 5 - ALL STRUCTURE CONCRETE SHALL BE FROM SULPHATE RESISTANT CEMENT

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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
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| CLIENT | | | | | |
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| PROJECT: | | | | | |
| RECONSTRUCTION OF HARBORS PHASE-2 | | | | | |
| DRAWING TITLE: | | | | | |
| Hdh.NOLHIVARAMFARU 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. | | | |
| K-601 | 4 OF 4 | NF-CI-05 | | | |
| REV. No. | 0 | | | | |





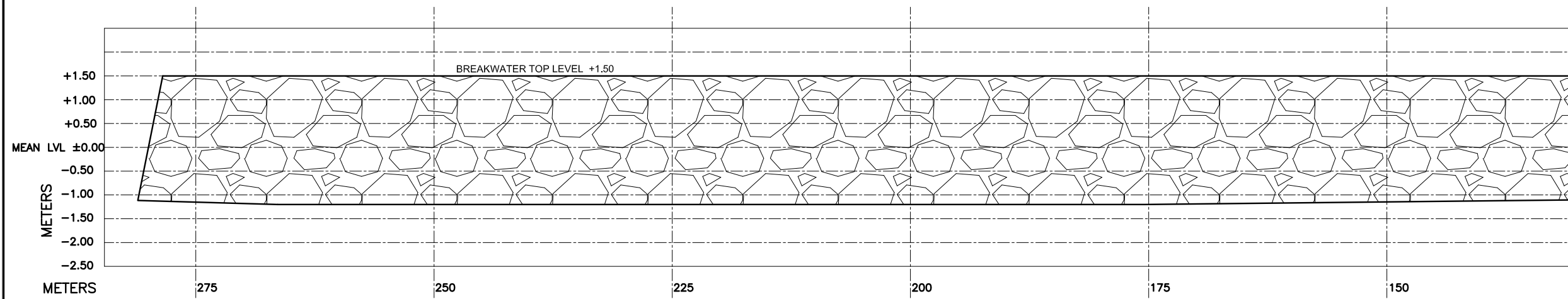
TYPICAL BREAKWATER SECTION



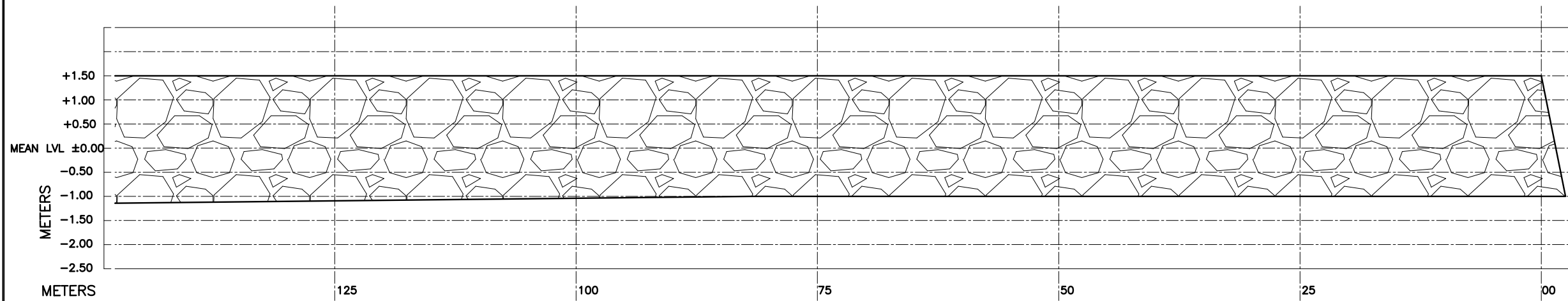
TYPICAL REVETMENT SECTION

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

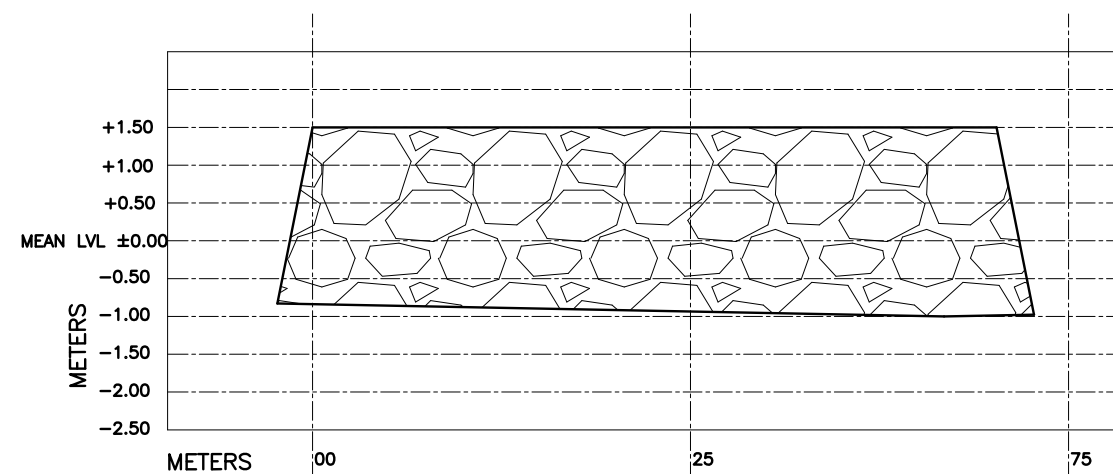
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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
| REVISION | | | | | |
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| CONSULTANT: | | | | | |
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| PROJECT: | | | | | |
| RECONSTRUCTION OF HARBORS PHASE-2 | | | | | |
| DRAWING TITLE: | | | | | |
| Hdh.NOLHIVARAMFARU HARBOUR BREAKWATER 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 2 | NF-CI-06 | | | |
| REV. No. | 0 | | | | |



WEST BREAKWATER PROFILE




WEST BREAKWATER PROFILE

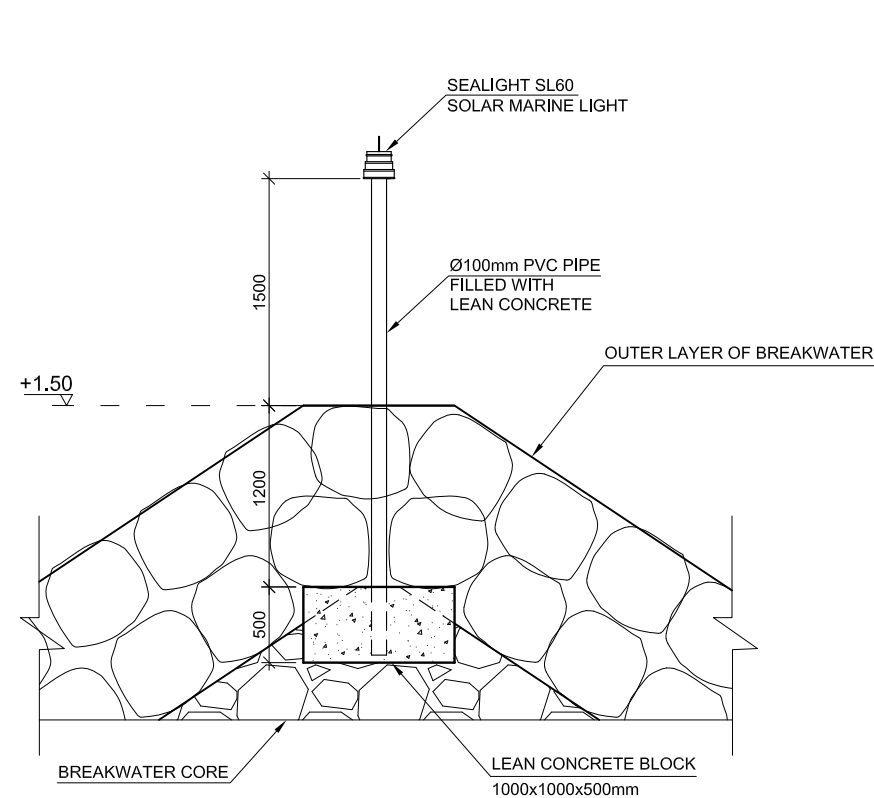


EAST BREAKWATER PROFILE

NOTES:

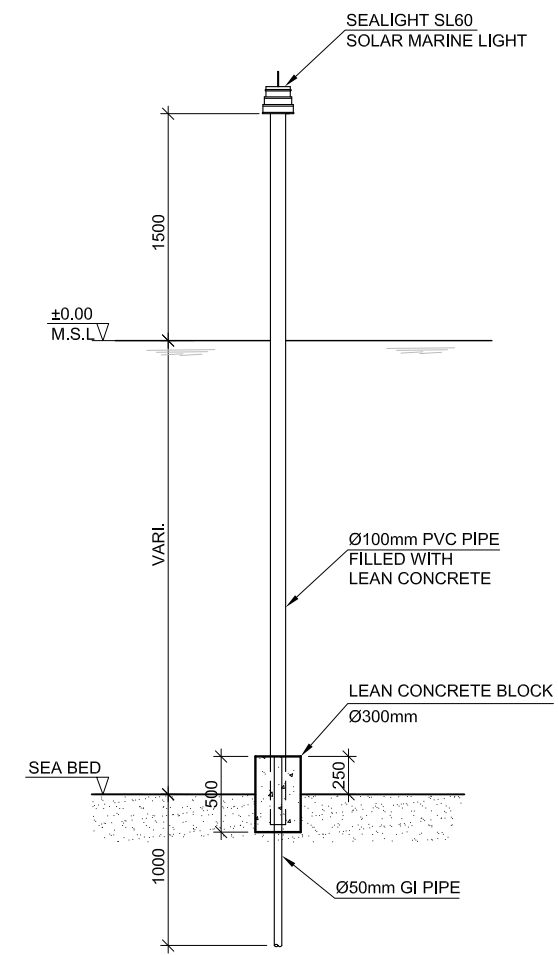
1 - ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER
UNLESS OTHERWISE SHOWN

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| REV. | DATE | | DESCRIPTION | | DRAWN | CHKD. | APPRD. | | |
| REVISION | | | | | | | | | |
| CLIENT  MINISTRY OF HOUSING & INFRASTRUCTURE REPUBLIC OF MALDIVES | | | | | | | | | |
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| PROJECT: RECONSTRUCTION OF HARBORS PHASE-2 | | | | | | | | | |
| DRAWING TITLE: Hdh.NOLHIVARAMFARU HARBOUR BREAKWATER DETAILS | | | | | | | | | |
| 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 | | | | | | | | |
| REV. No. | 0 | | | | | | | | |
| | | | NF-CI-06 | | | | | | |



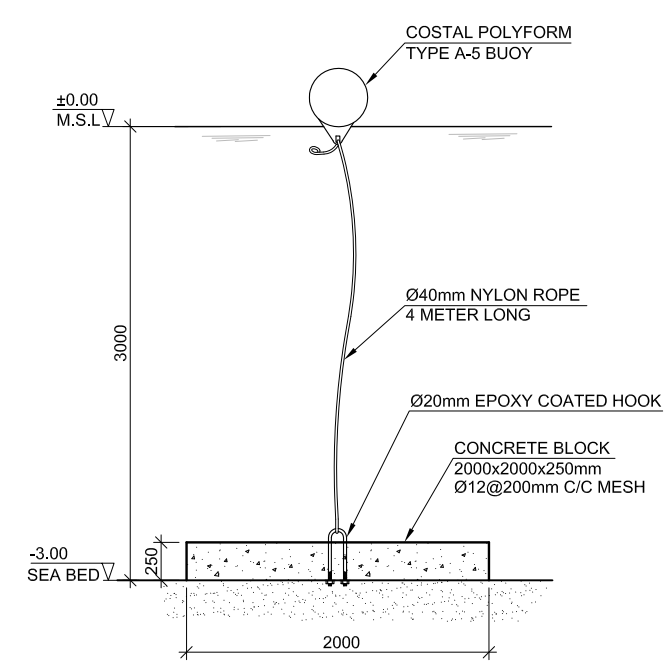
NAVIGATION LIGHT INSTALATION
AT BREAKWATER HEAD

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
 - 2 - PLAIN CEMENT CONCRETE (PCC) SHALL BE OF GRADE C10 (OR 10 N/ MM² WHEN COMPRESSIVE STRENGTH AT 28 DAYS)
 - 3 - ALL STRUCTURE CONCRETE SHALL BE FROM SULPHATE RESISTANT CEMENT

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| REV. | DATE | DESCRIPTION | DRAWN | CHKD. | APPRD. |
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| CLIENT | | | | | |
| MINISTRY OF HOUSING & INFRASTRUCTURE REPUBLIC OF MALDIVES | | | | | |
| CONSULTANT: | | | | | |
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| PROJECT: | | | | | |
| RECONSTRUCTION OF HARBORS PHASE-2 | | | | | |
| DRAWING TITLE: | | | | | |
| Hdh.NOLHIVARAMFARU 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 | NF-CI-07 | | | |
| REV. No. | 0 | | | | |