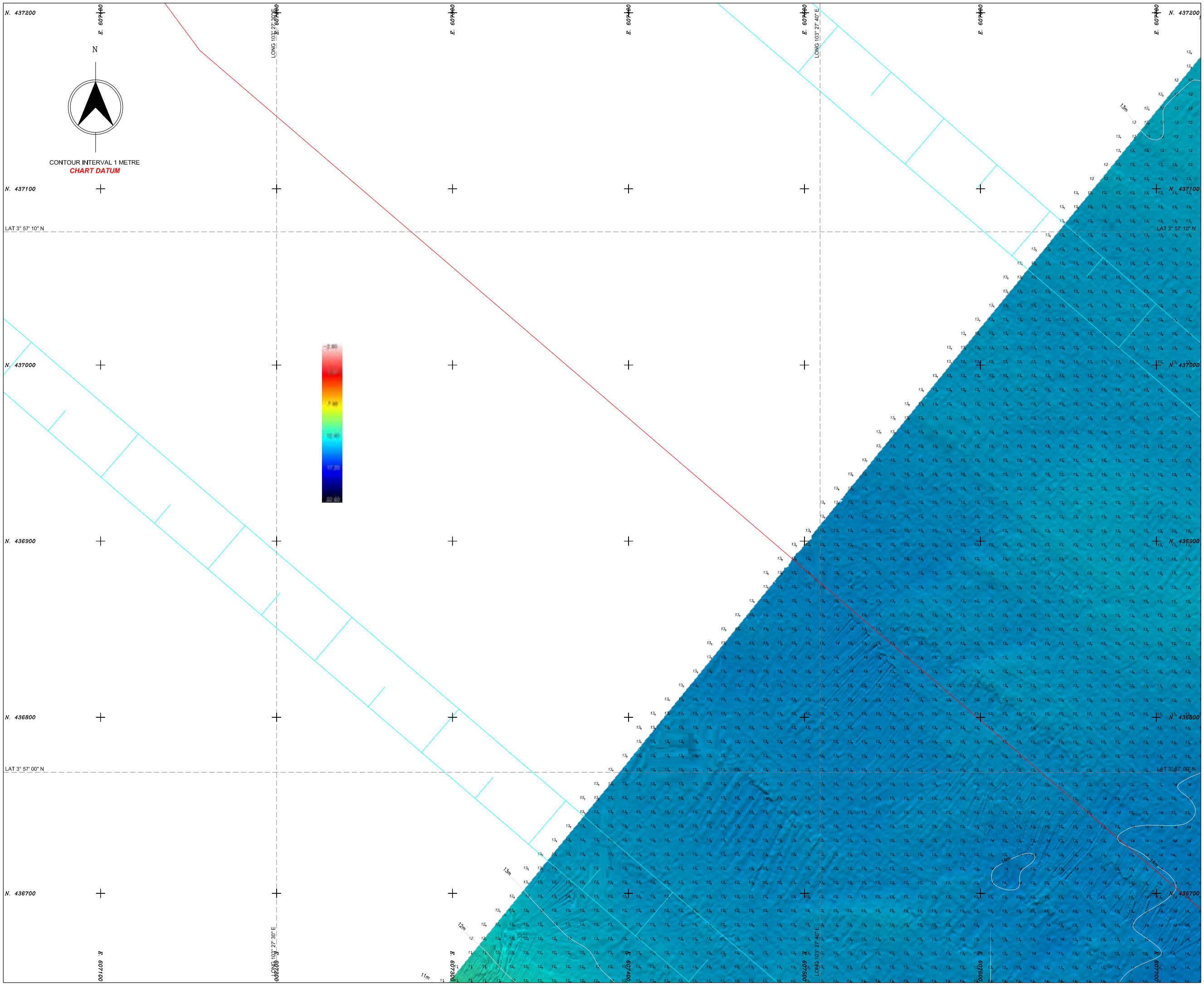



LEGEND / NOTES :

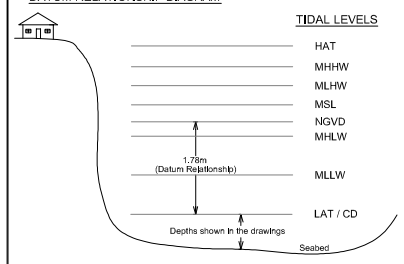
1. All measurements are in metres.
2. Coordinates Is In MRSO .
3. All levels are based on Bench Mark No. BM C0331 (RL : 3.844m NGVD) (RL : 5.620m CD).
4. Chart Datum at Tanjung Gelang Is 1.78m Below Land Survey Datum (NGVD).
5. Horizontal Datum was adopted from 3 proven boundary marks at Lot 27099 (PA 126126).
6. 1 Depth denotes metres above Chart Datum (CD).
7. 1, 2, 5, 10 Depth denotes metres below Chart Datum (CD).

NOTES :

TIDAL LEVELS AT TANJUNG GELANG
(Abstracted from Royal Malaysian Navy Tide Table 2016)

| | | NGVD (m) | LAT/CD (m) |
|---|---|---|---|
| Highest Astronomical Tide (HAT) | : | 2.06 | 3.84 |
| Mean Higher High Water (MHHW) | : | 1.56 | 3.34 |
| Mean Lower High Water (MLHW) | : | 0.50 | 2.28 |
| Mean Sea Level (MSL) | : | 0.14 | 1.92 |
| **Land Survey Datum (NGVD)** | : | **0.00** | **1.78** |
| Mean Higher Low Water (MHLW) | : | -0.21 | 1.57 |
| Mean Lower Low Water (MLLW) | : | -1.28 | 0.50 |
| Lowest Astronomical Tide (LAT) @ Chart Datum (CD) | : | -1.78 | 0.00 |

DATUM RELATIONSHIP DIAGRAM




GEODETIC INFORMATION :

**Geodetic Data**

| | |
|---|---|
| Spheroid | : Malayan Revised Everest |
| Semi Major Axis | : 6 377 304.063 metres |
| Semi Minor Axis | : 6 356 103.039 metres |
| Eccentricity Squared | : 0.006 637 846 6302 |
| Reciprocal Flattening (1/f) | : 300.8017 |

**Origin of Meridian of Reference**

| | |
|---|---|
| Projection | : Pahang State Cassini |
| Origin of Meridian of Reference | : G. Sinyum |
| Longitude of Origin (CM) | : E 102° 26' 10.°24 E |
| Latitude of Origin | : N 03° 42' 39.°50 N |
| False Easting | : 0 m |
| False Northing | : 0 m |

CLIENT :


Muhibbah Engineering (M) Bhd
Lot 586 & 579 , 2nd Mile
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Selangor Darul Ehsan
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PROJECT TITLE:

**MUHIBBAH KUANTAN MARITIME HUB**

DRAWING TITLE:

HYDROGRAPHIC AND TOPOGRAPHIC SURVEY
*- CHART DATUM -*

| | |
|---|---|
| Surveyed By: Shafizie , Nursamsi , Ridzuan , Amrie , Amzar , Arina , Hiesham , Bahari & Che Long | Date Of Survey: 29th June - 30th July 2016 |
| Plotted By: Mastura | Drawn By: Mastura |
| Checked By: Shafizie / Hairul | Approved By: Sr. Lee Chenk Hock |

SCALE : 1 : 1000

HORIZONTAL
30 10 0 20 40 60
METRES

| | | |
|---|---|---|
| Surveyor's Drawing No : JPWS/16/PHG/533/006/ 40 | Drawing Date : 22nd August 2016 | |
| Client's Drawing No : | Sheet No : | Rev : |

| REVISION | DATE | REPORT NO : 918/2016 |
|---|---|---|
| | | |
| | | |

Chartered & Licensed Land Surveyors :


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