

LEGEND:

GENERAL

- UTM GRID INTERSECTION (WGS84)
- GEOGRAPHICAL GRID INTERSECTION (WGS 84)
- KILOMETER POST
- MATCHLINE
- TOE LINE OF CHANNEL

BATHYMETRY

- WATER DEPTH IN METRES & DECIMETRES BELOW CHART DATUM

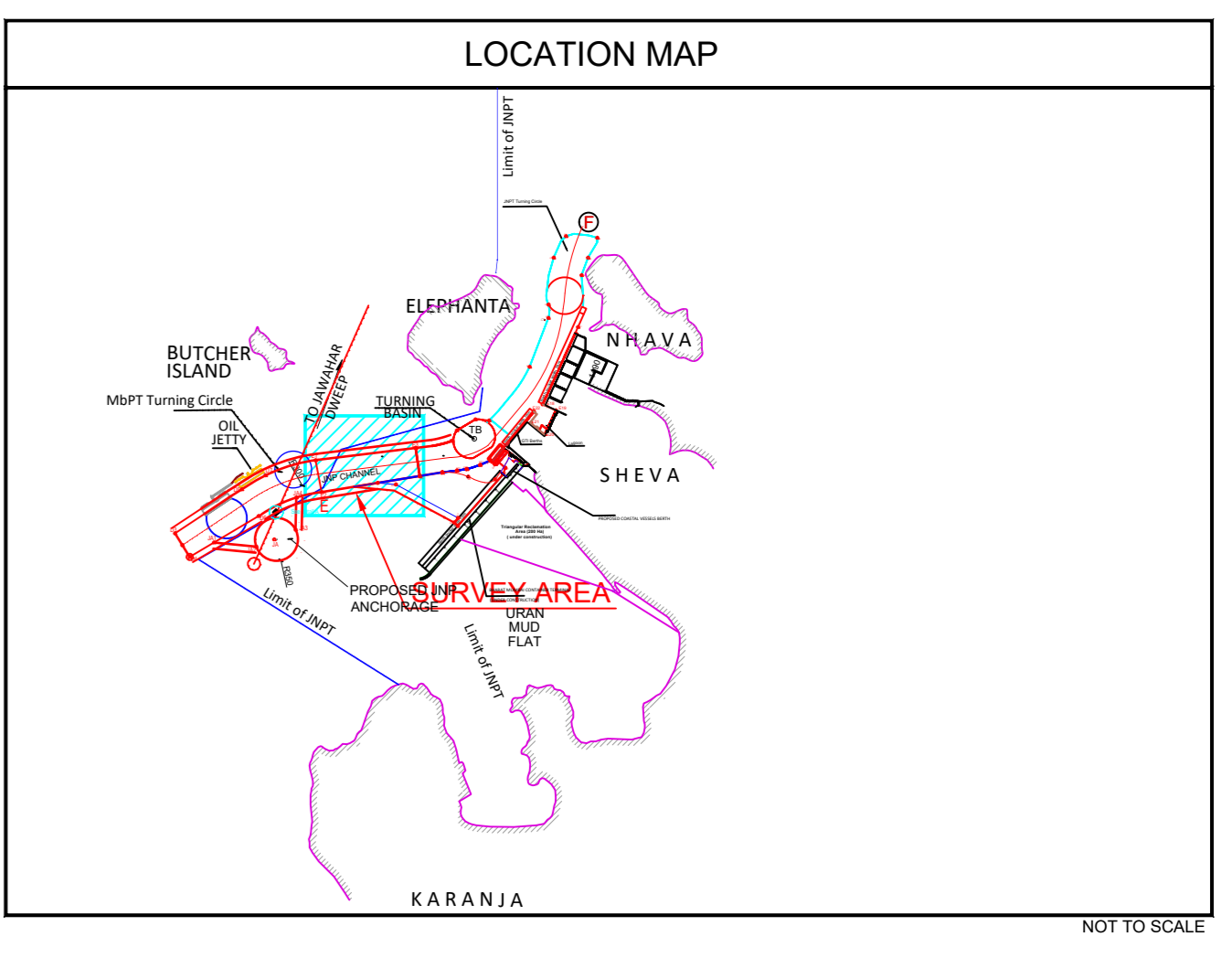
- NOTES:**
- SURVEY WAS CARRIED OUT FROM VESSEL AERO EXPRESS FROM 06th May to 09th May 2020
 - POSITION FIXING WAS CONTROLLED FROM SEPTENTOR AETERA POSITIONING SYSTEM
 - KONGSBERG EK6040C MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MBES SURVEY.
 - OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT JNPT LANDING JETTY WAS USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM.
 - VALUE OF BENCH MARK AT JNPT LANDING JETTY (BOLLARD) IS 3.75 METER ABOVE CHART DATUM.
 - MOTION SENSOR OCTANES WAS USED TO COMPENSATE SEA SWELL.
 - SURVEY AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT.

GEODEIC PARAMETERS

HORIZONTAL CO-ORDINATE SYSTEM	WGS84
GEOCENTRIC ELLIPSOID	WGS84
Semi major axis	6378137.000 m
Semi minor axis	6356752.314 m
Inverse flattening	298.2572226
PROJECTION	Universal Transverse Mercator
Central Meridian (CM)	75° E (Zone 43)
Latitude of Origin	0°00'00"
Fake Northing	0 m
Scale factor at CM	0.99960

REFERENCE DRAWINGS

Rev. No.	Date	Drawing No.	Description



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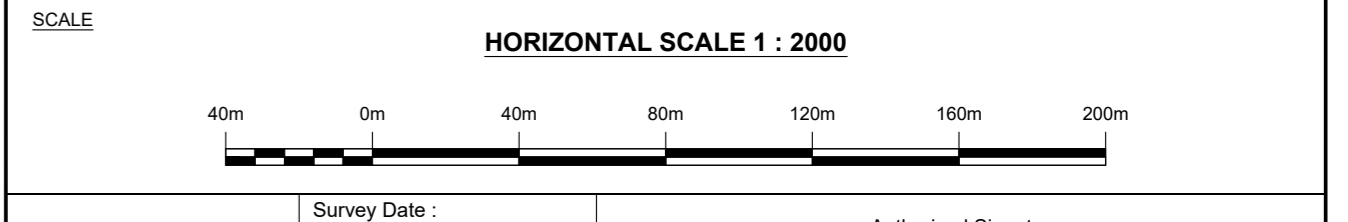
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PROJECT

JOINT POST-SURVEY MULTI-BEAM BATHYMETRY SURVEYS IN NAVIGATIONAL AREA OF JN PORT NAVI MUMBAI, WEST COAST OF INDIA

BATHYMETRY CHART (SECTION E-F & BMCT)



Vessel:	AERO EXPRESS	Survey Date:	06th May to 09th May 2020	Authorised Signatory:	
Rev. No.	0	Date:	13-05-2020	Issued For:	Approval
Drawing No:	S752-SUR-IP-010_Sheet1	Chart:	1 OF 5	Envd:	1 OF 1
				P-Size:	A0

DATUM: WGS-84, CM-75, ZONE-43
 MAINTAINED DEPTH IN NAVIGATIONAL CHANNEL (E-F) 14.40 m BELOW CHART DATUM