APPENDIX A.6

Environmental Baseline Supporting Documentation and Maps

Marine Transportation and Infrastructure Maps

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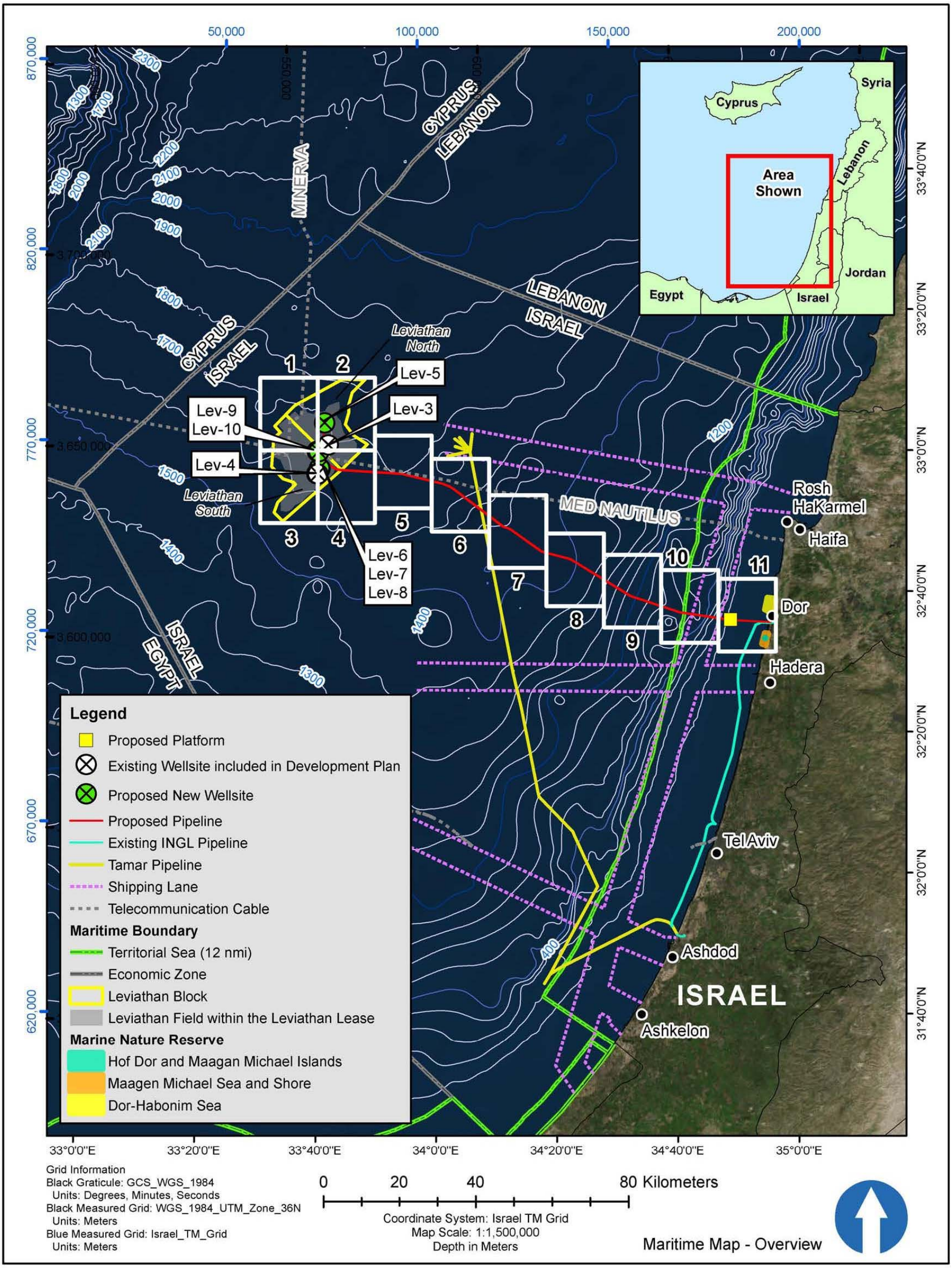

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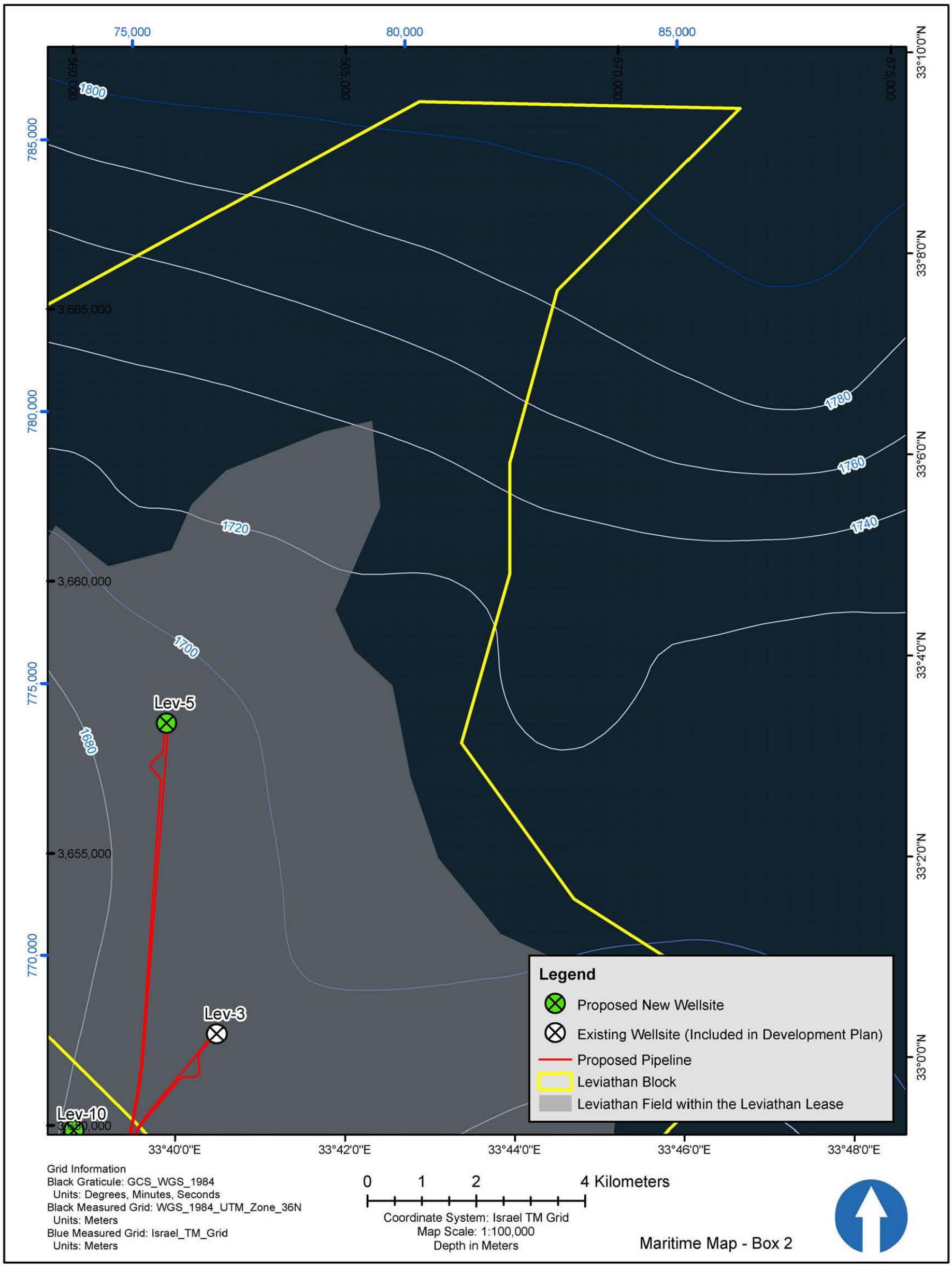

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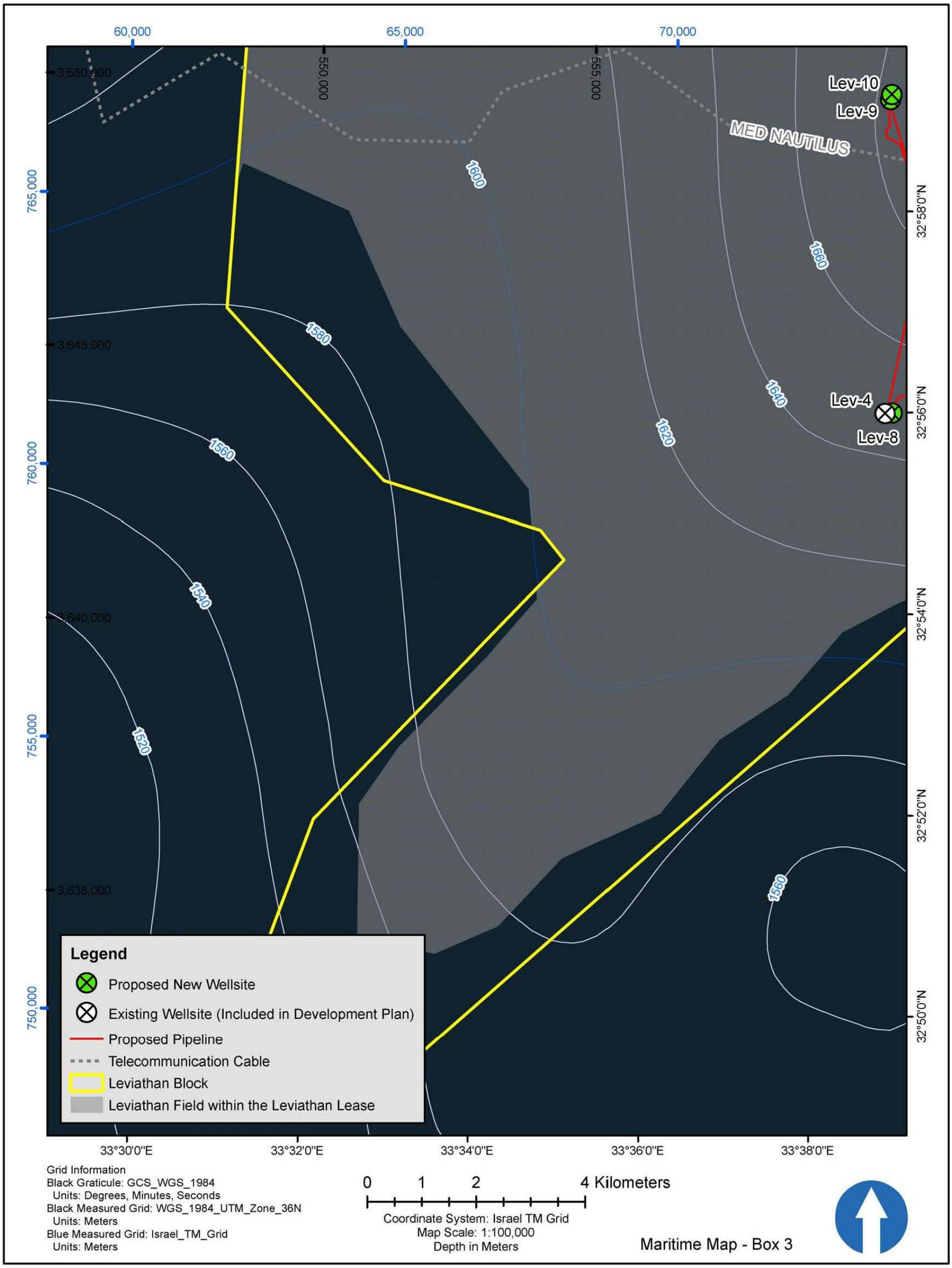

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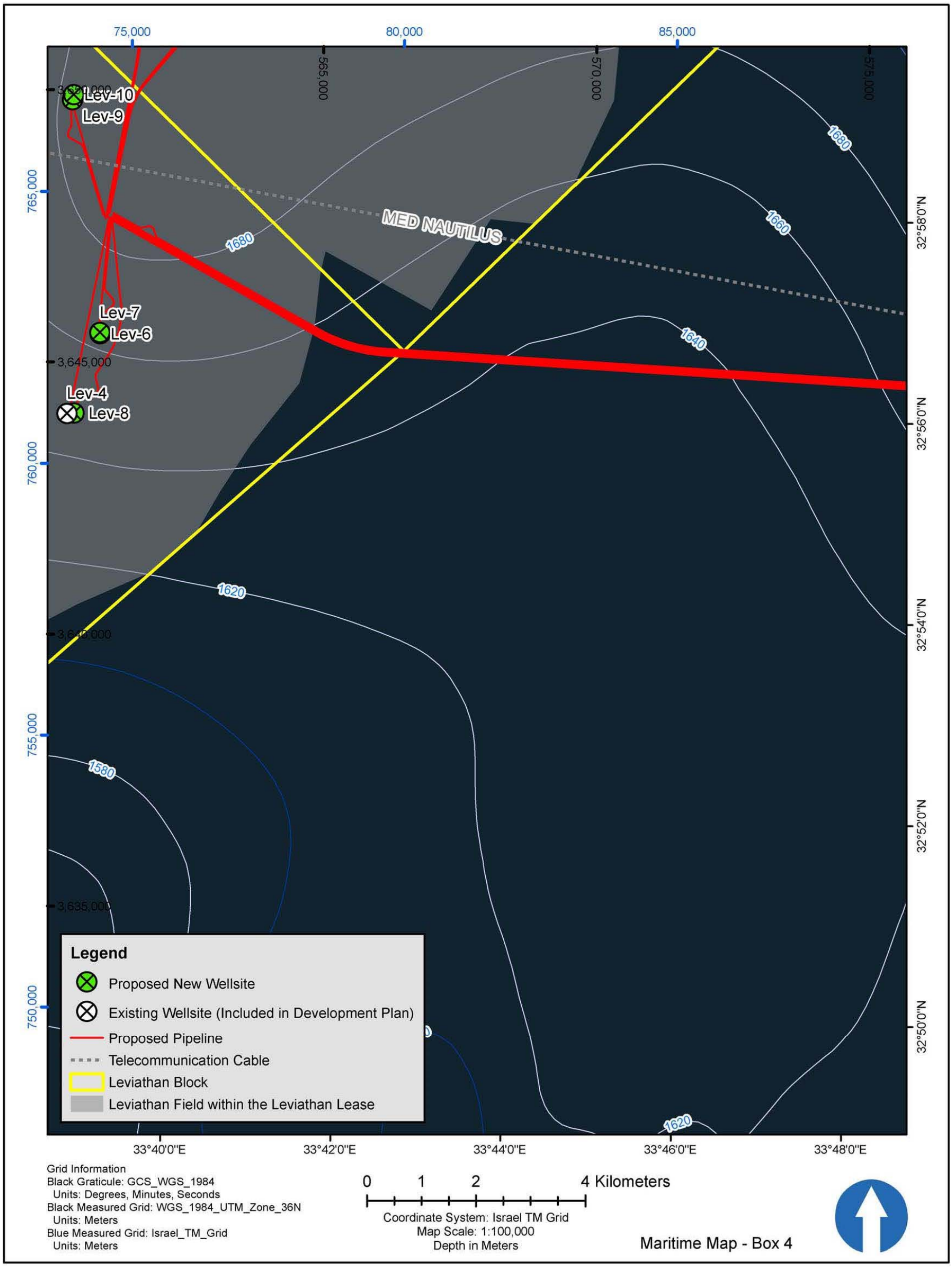

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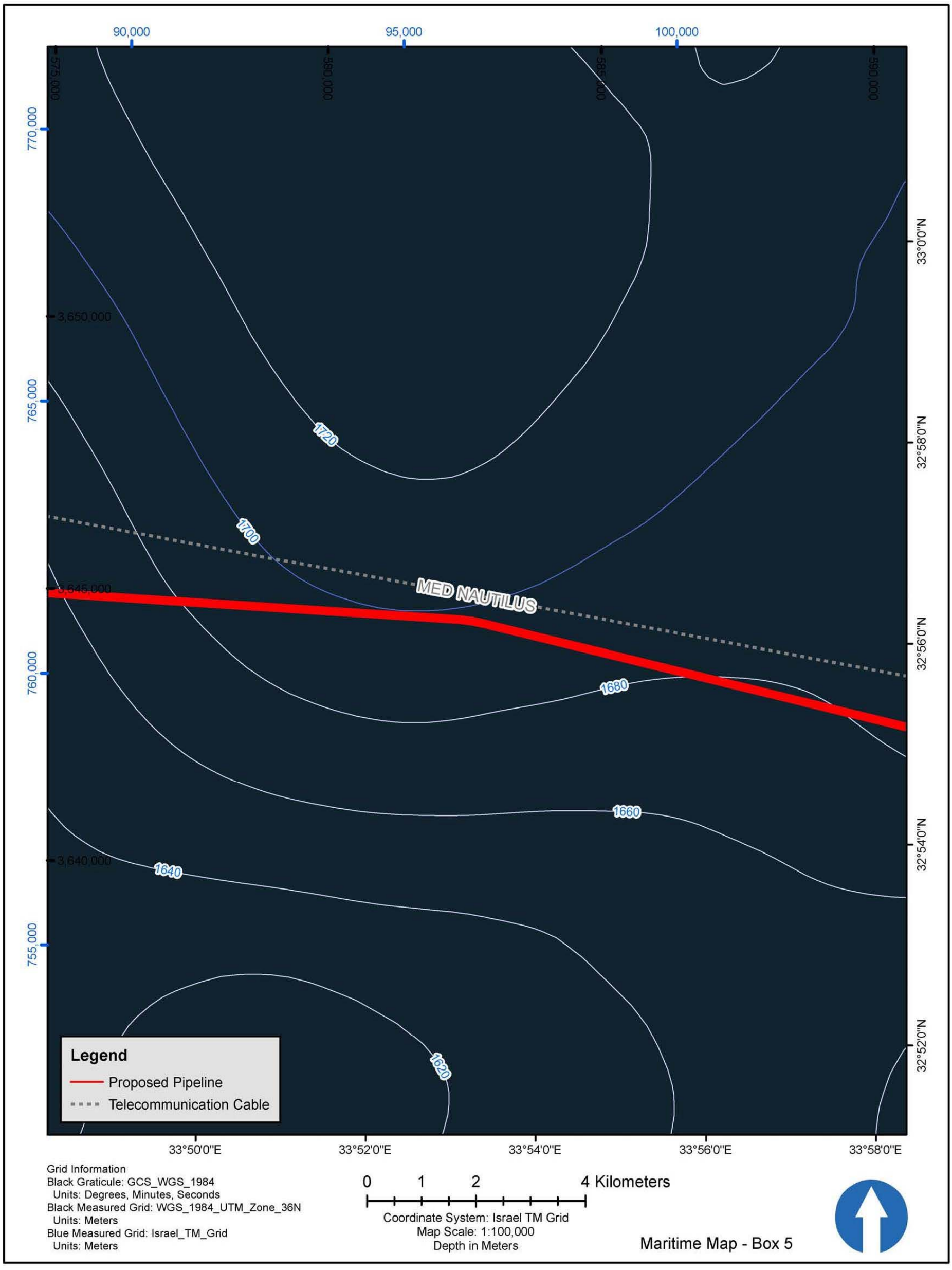

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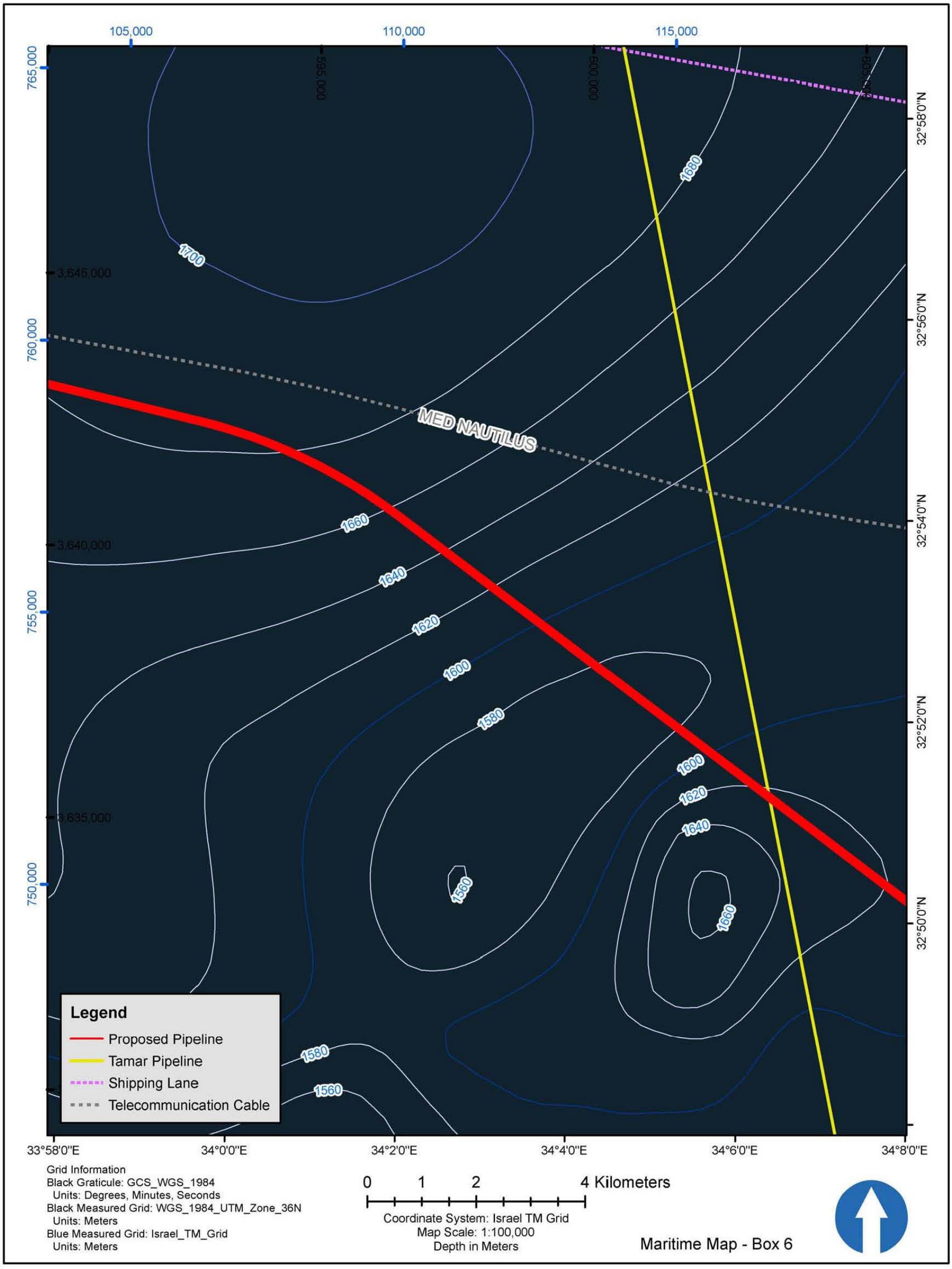

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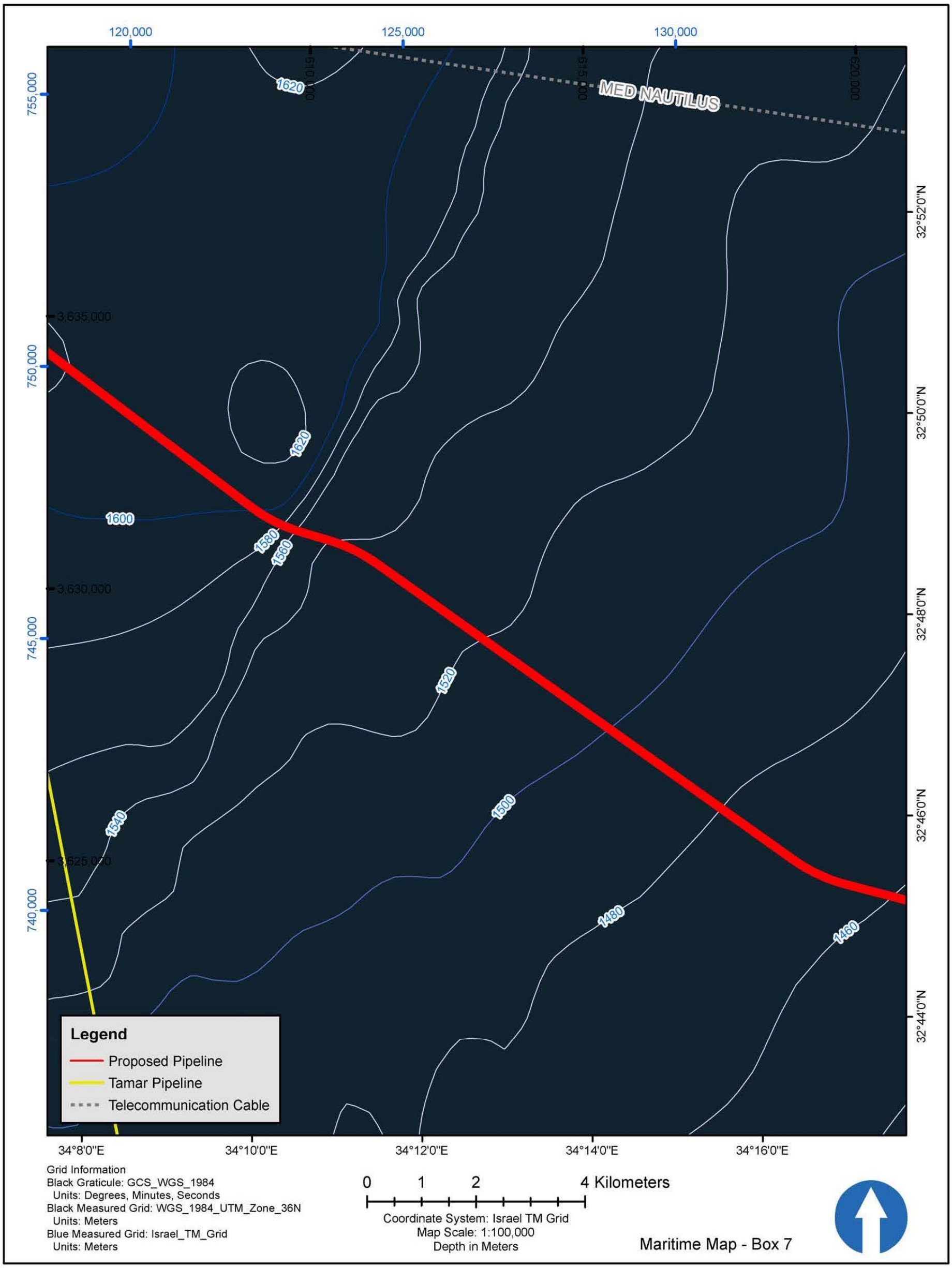

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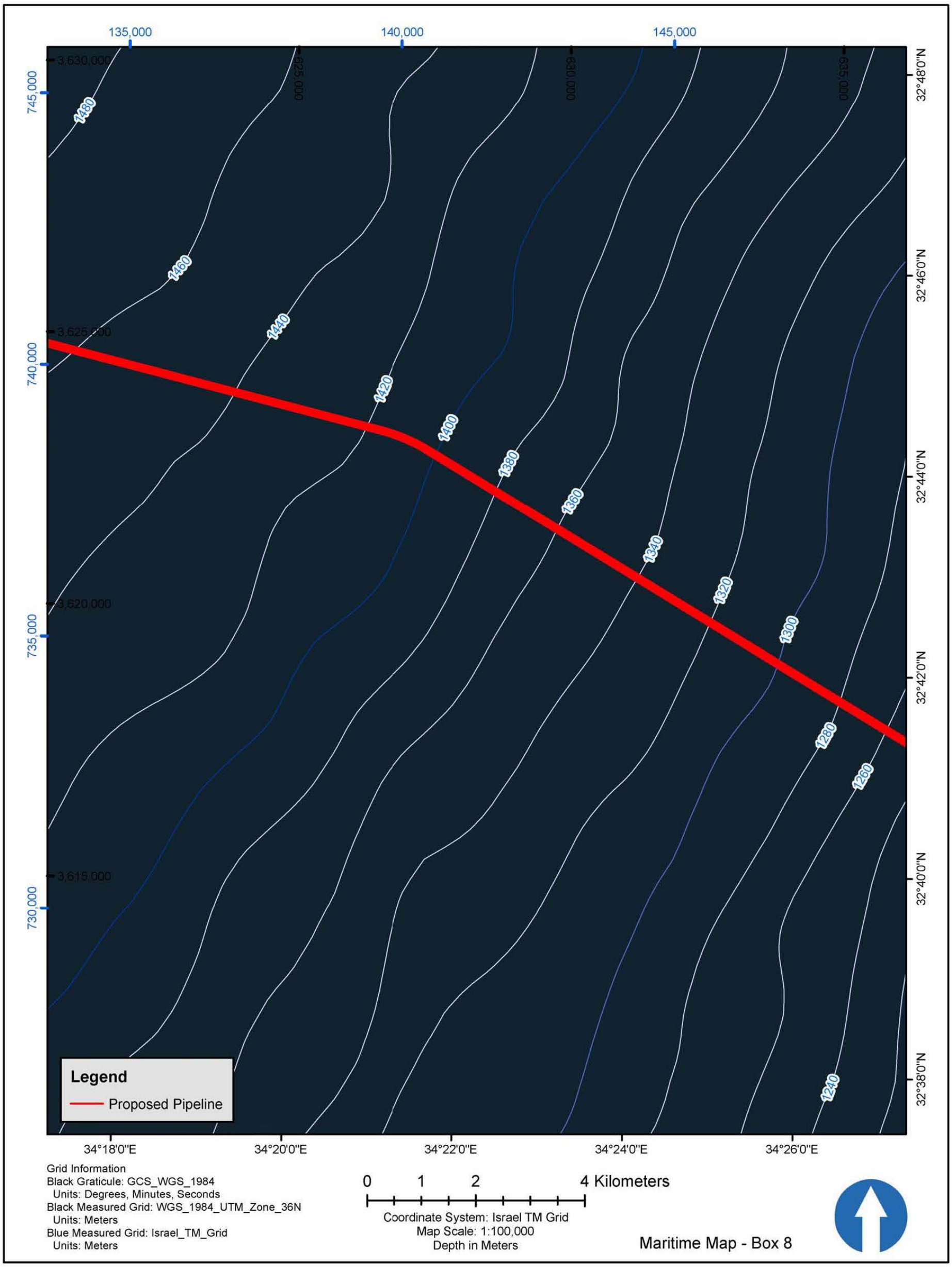

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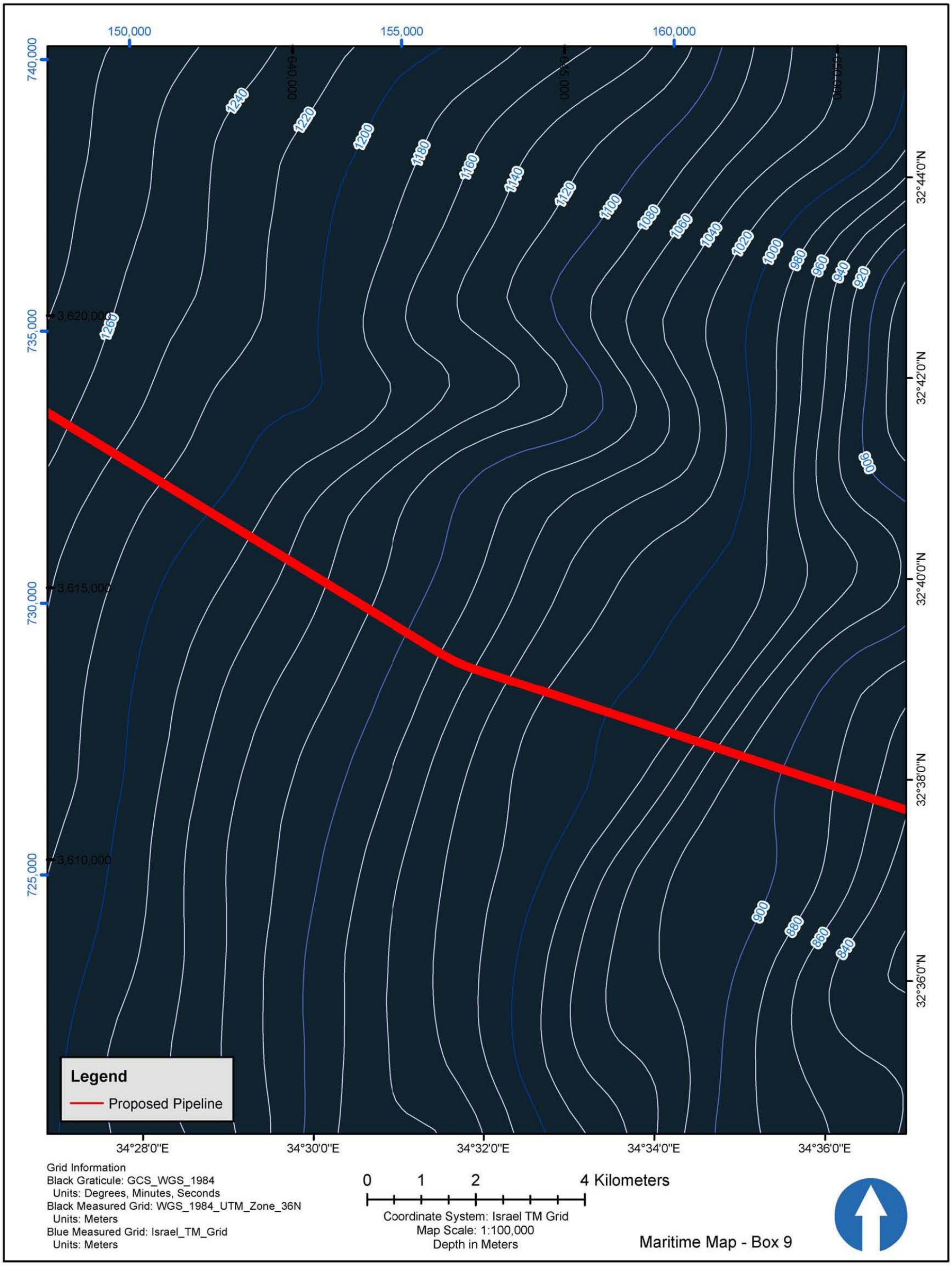

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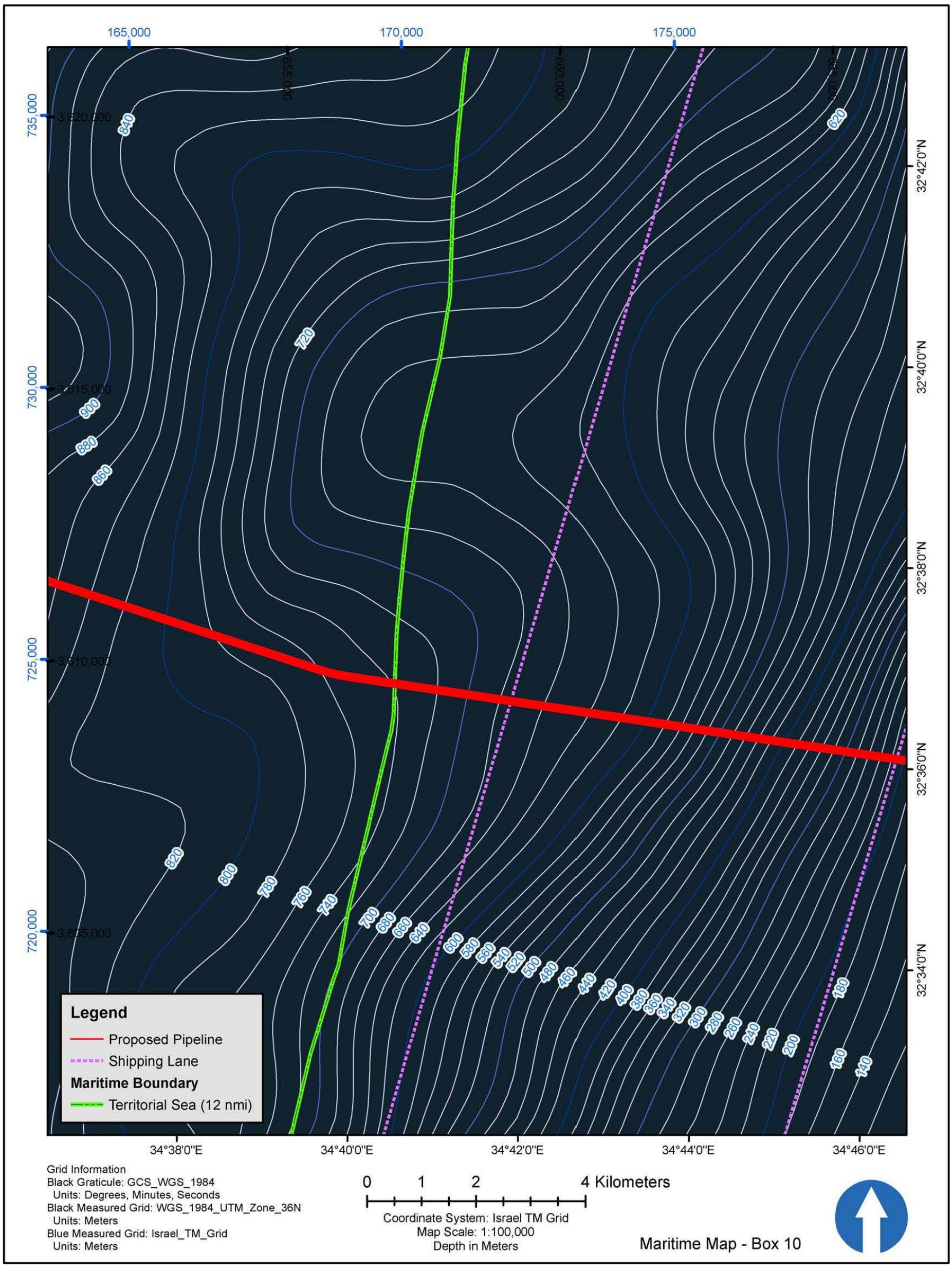

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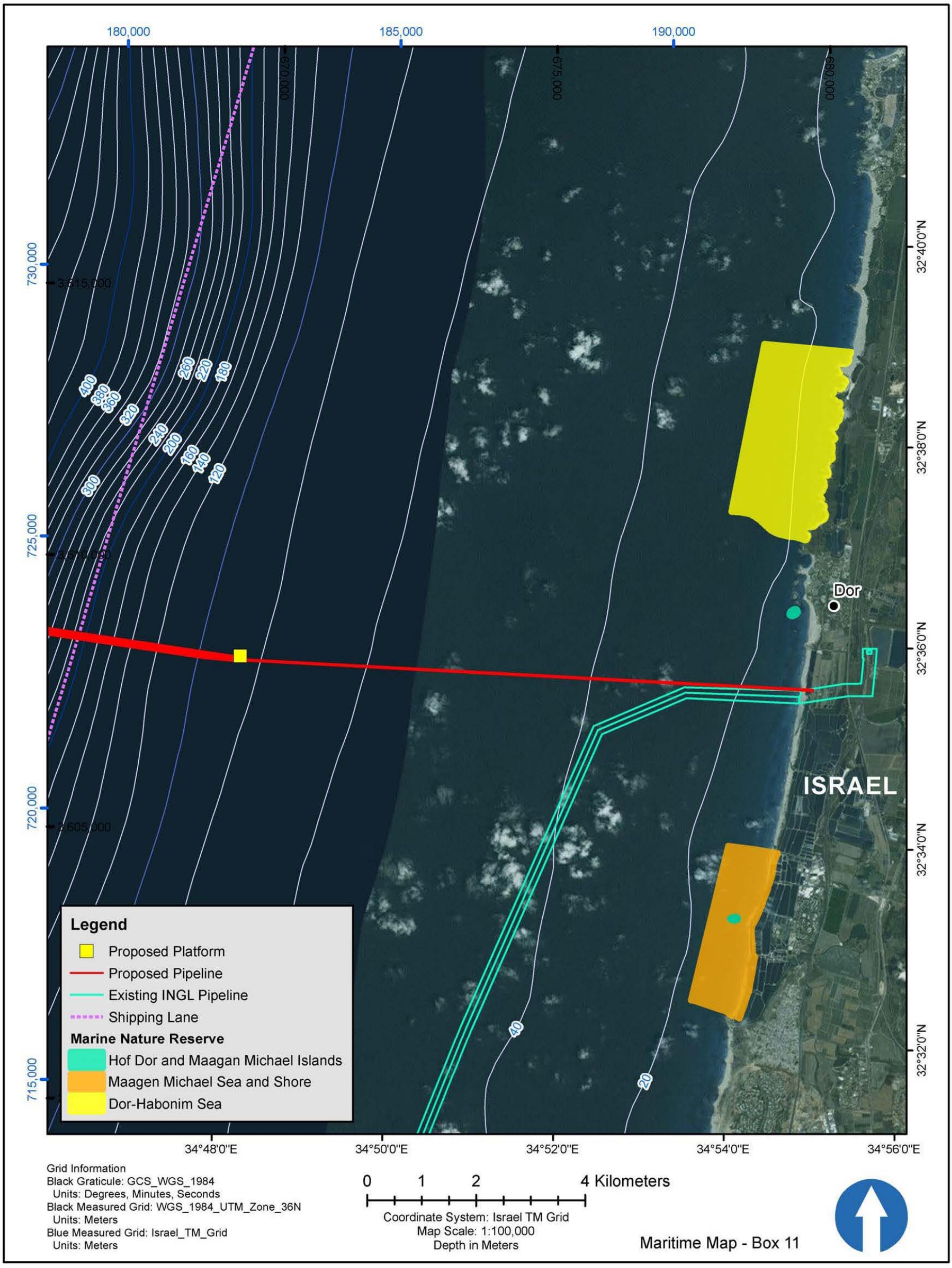

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APPENDIX A.7

Environmental Baseline Supporting Documentation and Maps

General Geological / Geomorphological / Bathymetric Map

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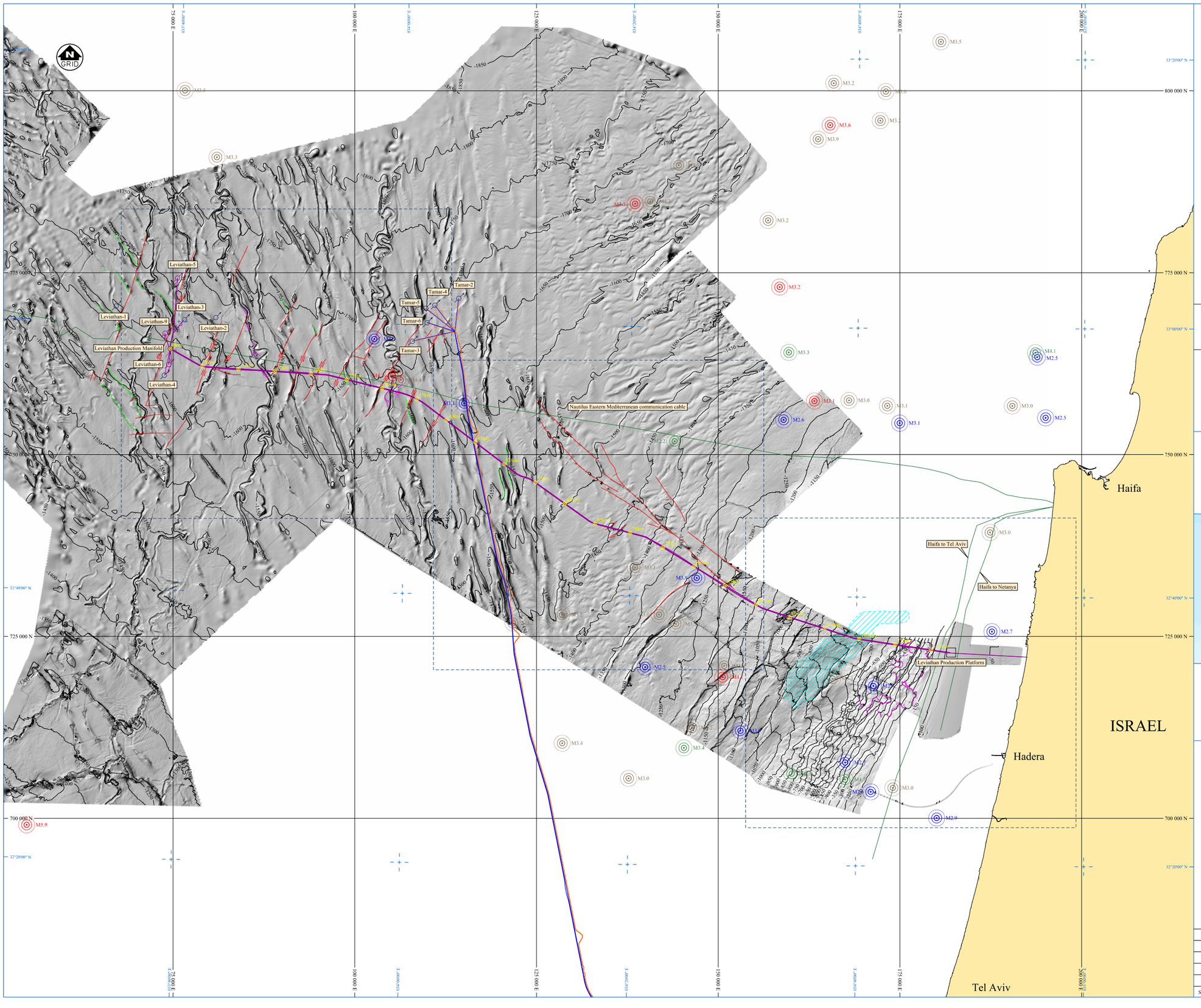


LEGEND

- Leviathan Production Platform (182,052m E / 722,792m N)
- Leviathan Production Manifold (74,623mE / 764,545m N)
- Existing well
- Proposed well
- KP points
- Tamar existing flowlines
- Tamar existing umbilicals
- Proposed Leviathan Field to Leviathan Production Platform flowlines, umbilicals and pipelines
- Subsea communications cable
- Earthquakes Geophysical Institue of Israel
- Earthquakes International Seismological Centre
- Earthquakes Jordanian Seismological Observatory
- Earthquakes U.S. Geological Survey
- Chart outlines 1:50,000
- Shoreline
- Strike/slip faults
- Slump scars
- Slump faults, ticks denotes downthrown side
- Reverse faults
- Regional landslide pathway, debris deposits and several smaller scale normal faults
- -1650 Depth below sea surface to seabed, contoured at 50m intervals

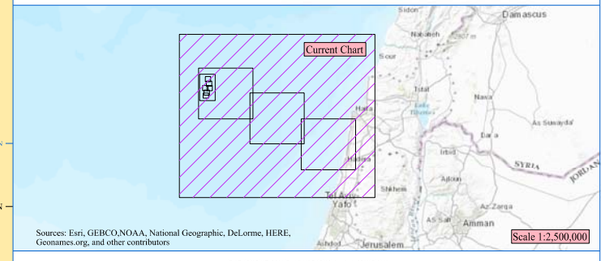
NOTES

Data sourced from a combination of existing 3D seismic, AUV multibeam and surface multibeam echo sounder
Illuminated from northwest at 45° above horizontal

Seabed feature interpretation limited to within at least 2km of proposed route

CHART SCALE 1:250,000

0	18,750	37,500	75,000	122,500 Feet
0	6,250	12,500	25,000	37,500 Meters



GEODETIC INFORMATION

Israel_TM_Grid
WKID: 2039 Authority: EPSG
EPSG Code 6141

Projection: Transverse_Mercator
False_Easting: 219529.584
False_Northing: 626907.39
Central_Meridian: 35.20451694444445
Scale_Factor: 1.0000067
Latitude_Of_Origin: 31.734393611111111
Linear Unit: Meter (1.0)

Geographic Coordinate System: GCS_Israel
Angular Unit: Degree (0.0174532925799433)
Prime Meridian: Greenwich (0.0)
Datum: D_Israel
Spheroid: GRS_1980
Semimajor Axis: 6378137.0
Semiminor Axis: 6356752.314140356
Inverse Flattening: 298.257222101

Gardline

noble energy

GEOLOGICAL CONDITIONS
OFFSHORE ISRAEL
LEVIATHAN AREA
LEVIATHAN FIELD TO LEVIATHAN PRODUCTION PLATFORM
GEOLOGICAL SETTING

SET 3 - CHART 1

Prepared by: Gardline Surveys, Inc. 1500 Bingle Road, Houston, Texas, 77055. Telephone: 713.481.4630

REV	DATE	REMARKS	AUTHOR	DRAWN	CHECKED
0	May 11, 2016	DRAFT	JE	KB	ARH
1	May 16, 2016	2nd DRAFT	JE	KB	ARH
2	July 11, 2016	FINAL	JE	KB/JPS	ARH
SURVEY DATE	N/A	REPORT REF	10773	REF NO	10773.11