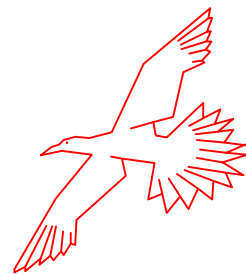

WEEKS and GREENVILLE YARD
BAYONNE , NEW JERSEY
CONTRACT No. 410-10-037
SURVEY No.

HYDROGRAPHIC SURVEY
July 26, 2011
August 9, 2011

PREPARED FOR

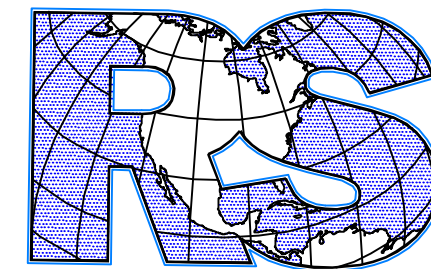
THE PORT AUTHORITY

OF NY & NJ



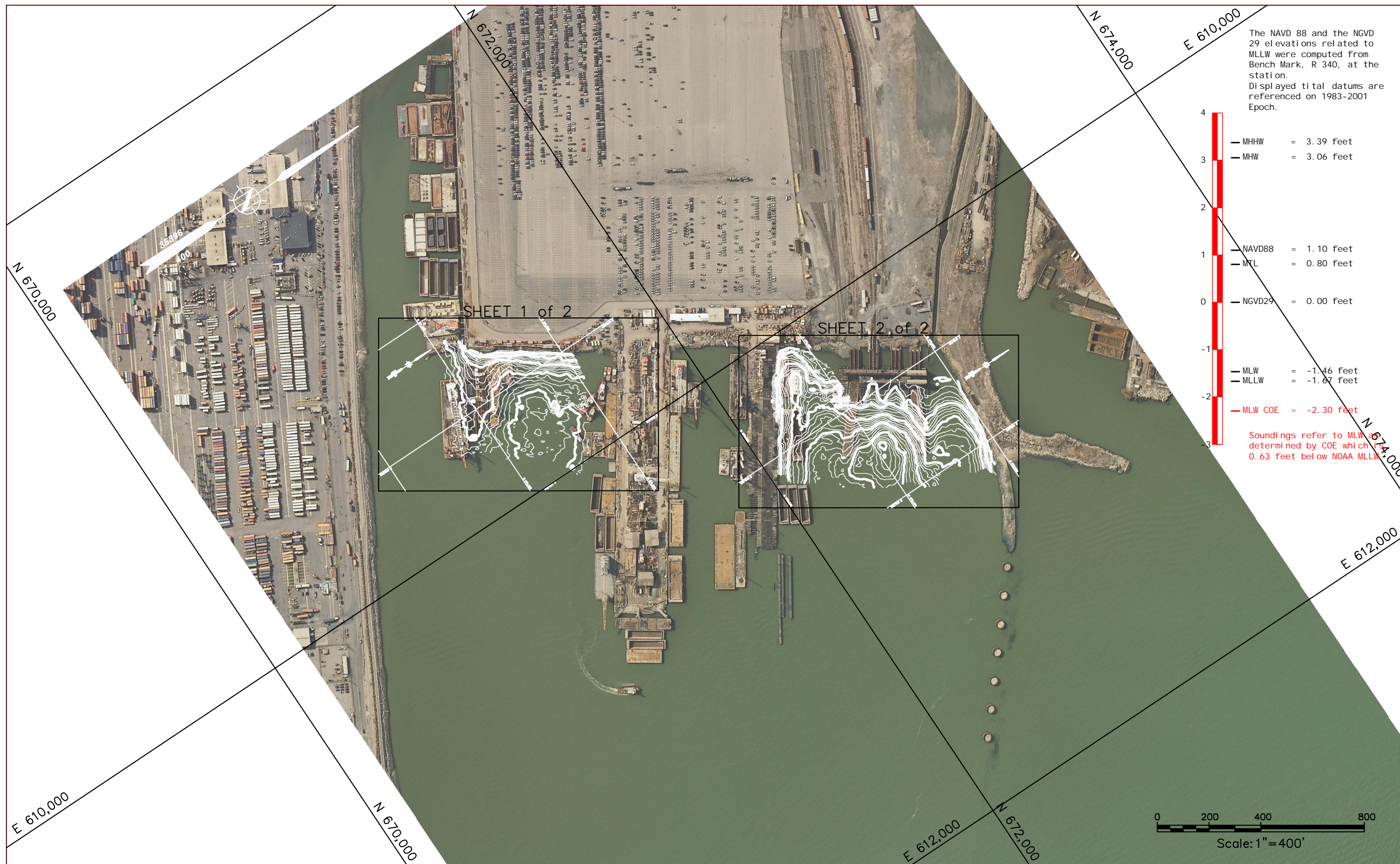
Vicinity Map

- 1. INDEX
- 2. SHEETS 1 – 2

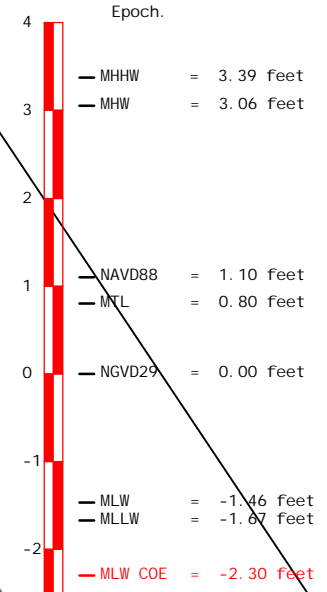


ROGERS SURVEYING, PLLC
1632 Richmond Terrace
Staten Island, N.Y. 10310
(718) 447-7311

www.rogerssurveying.net



The NAVD 88 and the NGVD 29 elevations related to MLLW were computed from Bench Mark, R 340, at the station. Displayed tidal datums are referenced on 1983-2001 Epoch.



Soundings refer to MLW as determined by COE which is 0.63 feet below NOAA MLLW

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Title
**PORT AUTHORITY
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JERSEY**
**HYDROGRAPHIC
SURVEY AND BERTH
VOLUME
CALCULATIONS**
Index

No.	Date	Revision	Approved

VERTICAL CONTROL
Mean Low Water = 2.33' Below 0.00 NGVD '29

HORIZONTAL CONTROL
ALL COORDINATES, BEARING AND DISTANCES ARE REFERENCED TO THE NEW JERSEY PLANE COORDINATE SYSTEM (N.A.D. 83) AS SET FORTH IN N.J.S.A. 51:3-7

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

Rogers Surveying RAK DWR
Surveyed by Drawn by Checked by
Date 07/26/11_08/09/11 Scale 1"=400'
Contract Number Drawing Number
410-07-030 35396

Note:
The information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

The Tide was monitored and recorded utilizing RTK GPS surveying techniques.

Equipment Used
• Survey Vessel "Red Rogers"
• Reson 7101 Multibeam Sonar
• Trimble Pro Beacon Differential Signal Receiver
• Applanix 320 FOS/MV
• Coastal Oceanographic Hydrographic Surveying Software

Volume Report THE DATA USED FOR VOLUME CALCULATIONS IS REPRESENTATIVE OF A LARGER DATA SET. SOUNDINGS USED FOR VOLUME CALCULATIONS ARE ON A 3'x 3' GRID WITH THE DEPTH NEAREST TO THE CENTER USED.

Design Depth	Volume to Dredge Template	Volume of 2' Overdredge	Total Volume

Coordinates are expressed in feet and refer to the NEW JERSEY STATE PLANE (NAD 83) System.
Soundings refer to Mean Low Water as determined by U.S.A.C.E.
The Plane of Mean Low Water is 2.3 feet below Mean Sea Level (NGVD 29).

NAVD88 1.12
NGVD29 0.0
MLW (COE) -2.3

I hereby certify to The Port Authority of New York and New Jersey that this map indicates the conditions existing as of the date indicated hereon to the best of my professional knowledge.

William A. Rogers, Jr., P.E., L.S.
New Jersey State # 22254
A.C.S.M. Certified Hydrographer # 151

Title

**PORT AUTHORITY
 GREENVILLE
 CHANNEL
 BAYONNE NEW
 JERSEY**

**HYDROGRAPHIC
 SURVEY AND BERTH
 VOLUME
 CALCULATIONS**

Sheet 1

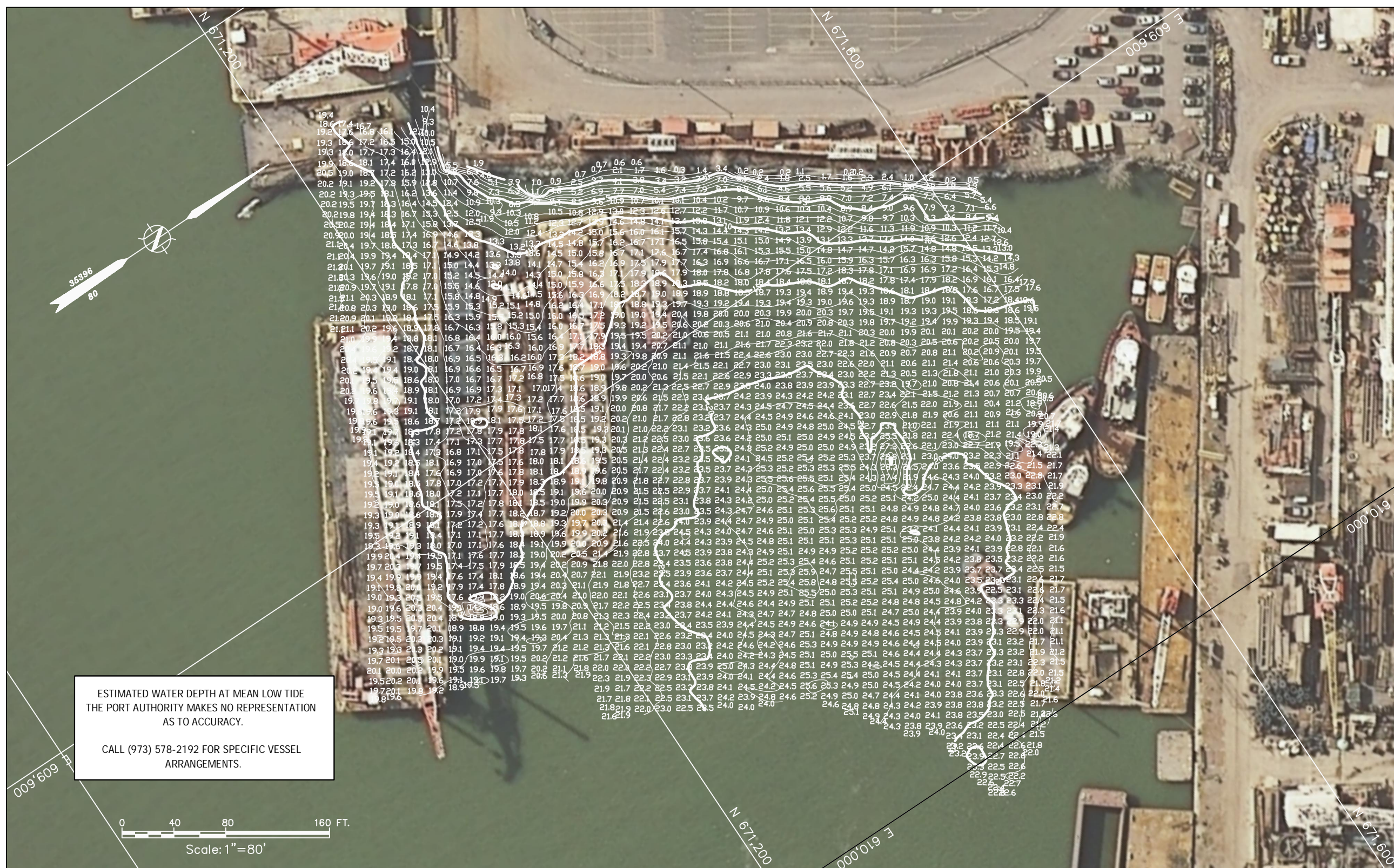
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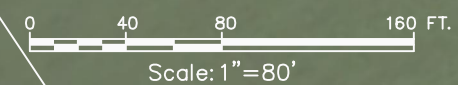
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Rogers Surveying RAK DWR
 Surveyed by Drawn by Checked by
 Date 07/26/11 Scale 1"=80'
 Contract Number 410-07-030 Drawing Number 35396



ESTIMATED WATER DEPTH AT MEAN LOW TIDE
 THE PORT AUTHORITY MAKES NO REPRESENTATION
 AS TO ACCURACY.

CALL (973) 578-2192 FOR SPECIFIC VESSEL
 ARRANGEMENTS.



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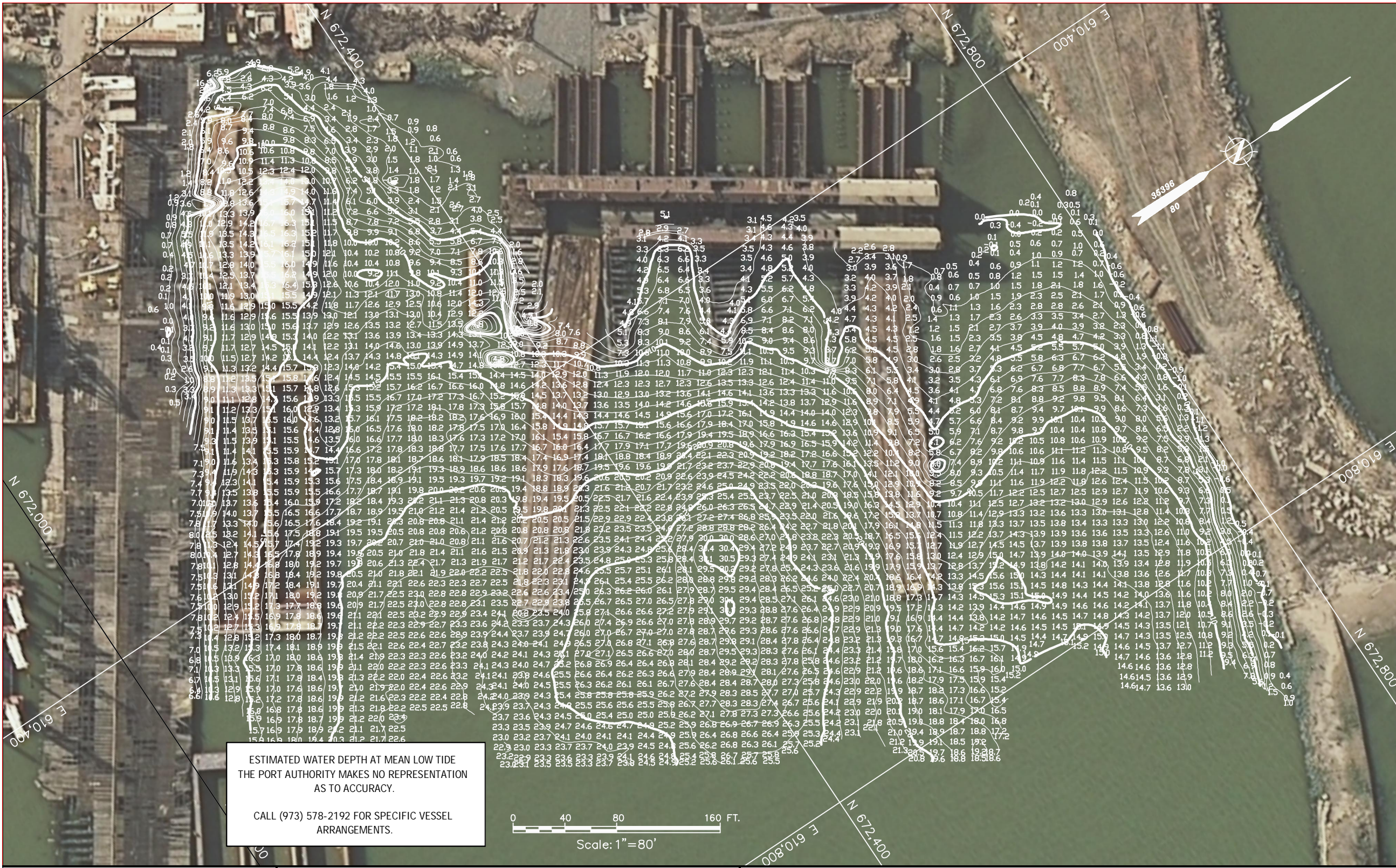
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**HYDROGRAPHIC
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Sheet 2

No. Date Revision Approved

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