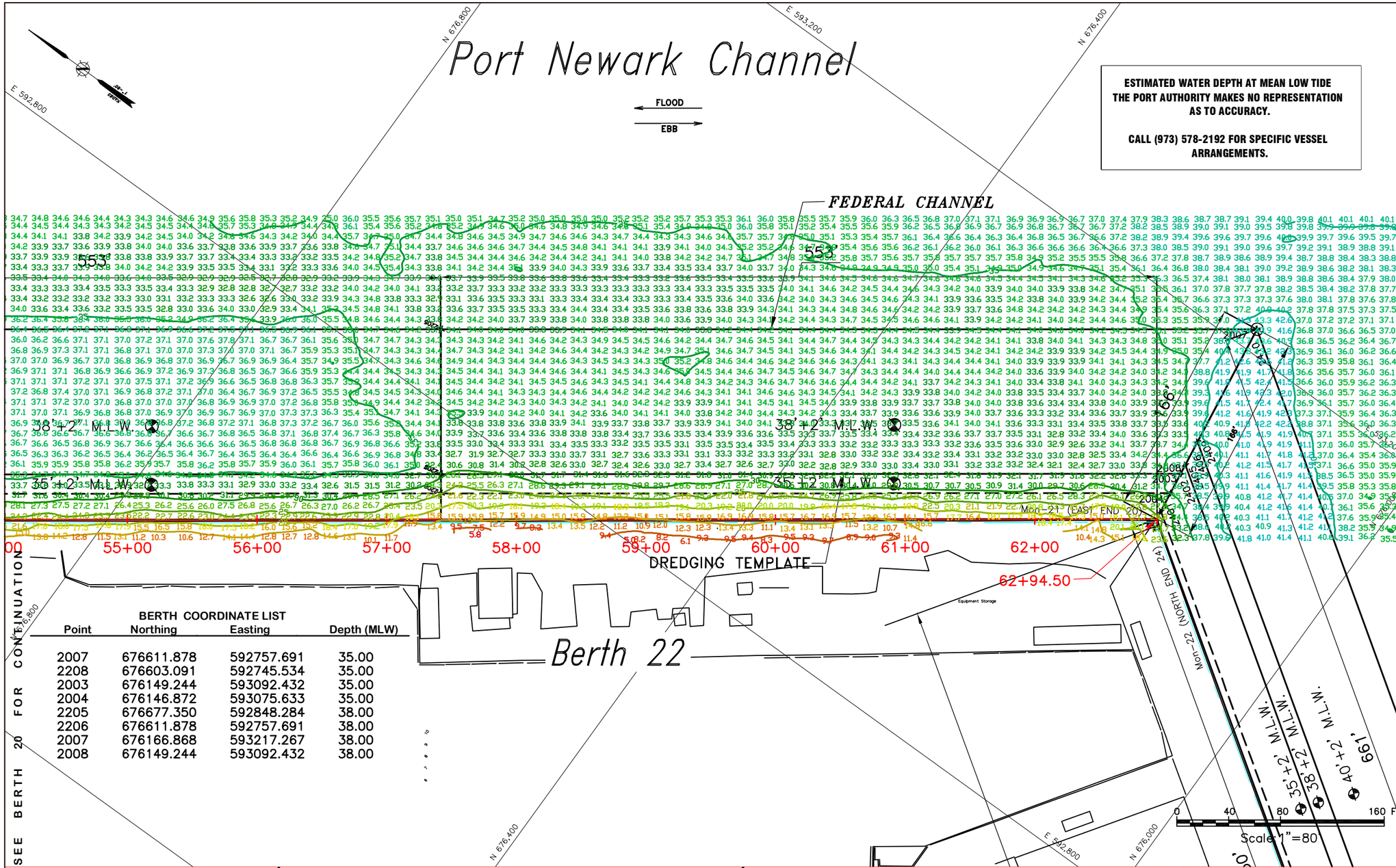

ESTIMATED WATER DEPTH AT MEAN LOW TIDE THE PORT AUTHORITY MAKES NO REPRESENTATION AS TO ACCURACY.

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

BERTH COORDINATE LIST

Point	Northing	Easting	Depth (MLW)
2007	676611.878	592757.691	35.00
2208	676603.091	592745.534	35.00
2003	676149.244	593092.432	35.00
2004	676146.872	593075.633	35.00
2205	676677.350	592848.284	38.00
2206	676611.878	592757.691	38.00
2007	676166.868	593217.267	38.00
2008	676149.244	593092.432	38.00

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 DATA IS REPRESENTATIVE OF A LARGER DATA SET. SOUNDINGS AND CONTOURS SHOWN ARE FROM 8'X16' GRID NEAREST TO CENTER. COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983) SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER THE PLANE OF MEAN LOW WATER IS 2.3 FEET BELOW NGVD (1929) THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING CLASS 2 SURVEY STANDARDS IN ACCORDANCE WITH EM 1110 2 1003.
THIS SURVEY WAS COMPLETED USING THE FOLLOWING EQUIPMENT:
* Survey Vessel "Red Rogers".
* Reson 7101 Multibeam.
* TSS 320 POS/MV.
* Coastal Oceanographics "HYPACK" 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'X3' GRID WITH THE DEPTH NEAREST TO THE CENTER USED.

Design Depth	Volume to Dredge Template	Volume of 2' Over dredge	Total Volume
35'	1,454 yd3	626 yd3	2,080 yd3
38'	9,795 yd3	4,864 yd3	14,659 yd3
TOTAL	11,249 yd3	5,490 yd3	16,739 yd3

NOTE: BERTH LENGTHS, WIDTHS AND DEEP WATER BERTH DIMENSIONS FROM P.A. PORT DEPARTMENT.

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).

Note:
This survey does not guarantee the absence or presence of any underwater obstructions. Diver verification may be required.

NAVD88	3.42
NGVD29	2.30
MLW (N.O.A.A.)	0.87
MLW (COE) & SURVEY	0.00

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

PREPARED FOR
THE PORT AUTHORITY OF NY & NJ

ROGERS SURVEYING, PLLC
1382 Richmond Terrace
Staten Island, N.Y. 10310
(718) 447-7311
www.rogerssurveying.net

Title

NEW JERSEY MARINE TERMINAL

HYDROGRAPHIC SURVEY

No.	Date	Revision	Approved

VERTICAL CONTROL
Mean Low Water = 2.3' 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 it's written consent.

Rogers Surveying — Surveyed by: BW — Drawn by: DWR — Checked by:

Date 12/10/12-01/17/13 — Scale 1"= 80'

Contract Number 410-12-037 — Drawing Number 22 of 60

BERTH 22