

CONTROL DATA

BENCHMARK: 853 1680 D TIDAL  
ELEVATION: 7.89 NGVD (1929)

- NOTES:
1. GRID SYSTEM IS IN FEET AND IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83.
  2. DEPTHS ARE IN FEET AND ARE REFERENCED TO THE CORPS OF ENGINEERS IMPROVEMENT PLANE (IP) BASED ON BENCHMARK "853 1680 D TIDAL" WHICH HAS AN ELEVATION OF 7.89 FEET NGVD 29 (NATIONAL GEODETIC VERTICAL DATUM 1929) AS PROVIDED BY THE ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT. THE PLANE OF NGVD 29 IS 2.40 FEET ABOVE THE CORPS OF ENGINEERS IMPROVEMENT PLANE.
  3. CONTOURS ARE IN FEET AND WERE GENERATED USING "QUICKSURF" VERSION 5.1 (SCHREIBER INSTRUMENTS, INC.) OPERATING WITHIN AUTODESK "AUTOCAD" VERSION 2004.
  4. BASE MAPS INCLUDING SHORELINE AND ONSHORE FEATURES WERE PROVIDED BY THE U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT.
  5. THE SURVEY SHOWN WAS CONDUCTED BY OCEAN SURVEYS, INC. USING THE FOLLOWING:  
SURVEY VESSEL: B/V WILLING 11  
ECHOSOUNDER: INNERSPACE 448 ECHOSOUNDER  
NAVIGATION SYSTEMS: APPLANIX POS MO/TIMBLE 5700 IN REAL TIME KINEMATIC MODE  
SURVEY ACQUISITION SOFTWARE: HYPACK VERSION 4.3  
SURVEY PROCESSING SOFTWARE: HYPACK SINGLE BEAM EDITOR VERSION 2008
  6. THE INFORMATION PRESENTED ON THIS DRAWING REPRESENTS THE RESULTS OF A SURVEY PERFORMED BY OCEAN SURVEYS, INC. (OSI) ON 11-13 SEPTEMBER 2008 AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME. REUSE OF THIS INFORMATION BY CLIENT OR OTHERS BEYOND THE SPECIFIC SCOPE OF WORK FOR WHICH IT WAS ACQUIRED SHALL BE AT THE SOLE RISK OF THE USER AND WITHOUT LIABILITY TO OSI.

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS  
NEW YORK DISTRICT

OPERATIONS DIVISION  
SURVEY SECTION  
CENAN-CP-S

APPROVED: B. WALLACE  
APPROVED: PATRICK BASKETT  
APPROVED: J. WRAZ  
APPROVED: F. POSTIGLIONE

DATE: 3 NOVEMBER 2008

DATE: 11-13 SEPTEMBER 2008

SCALE: ONE INCH = 100 FEET

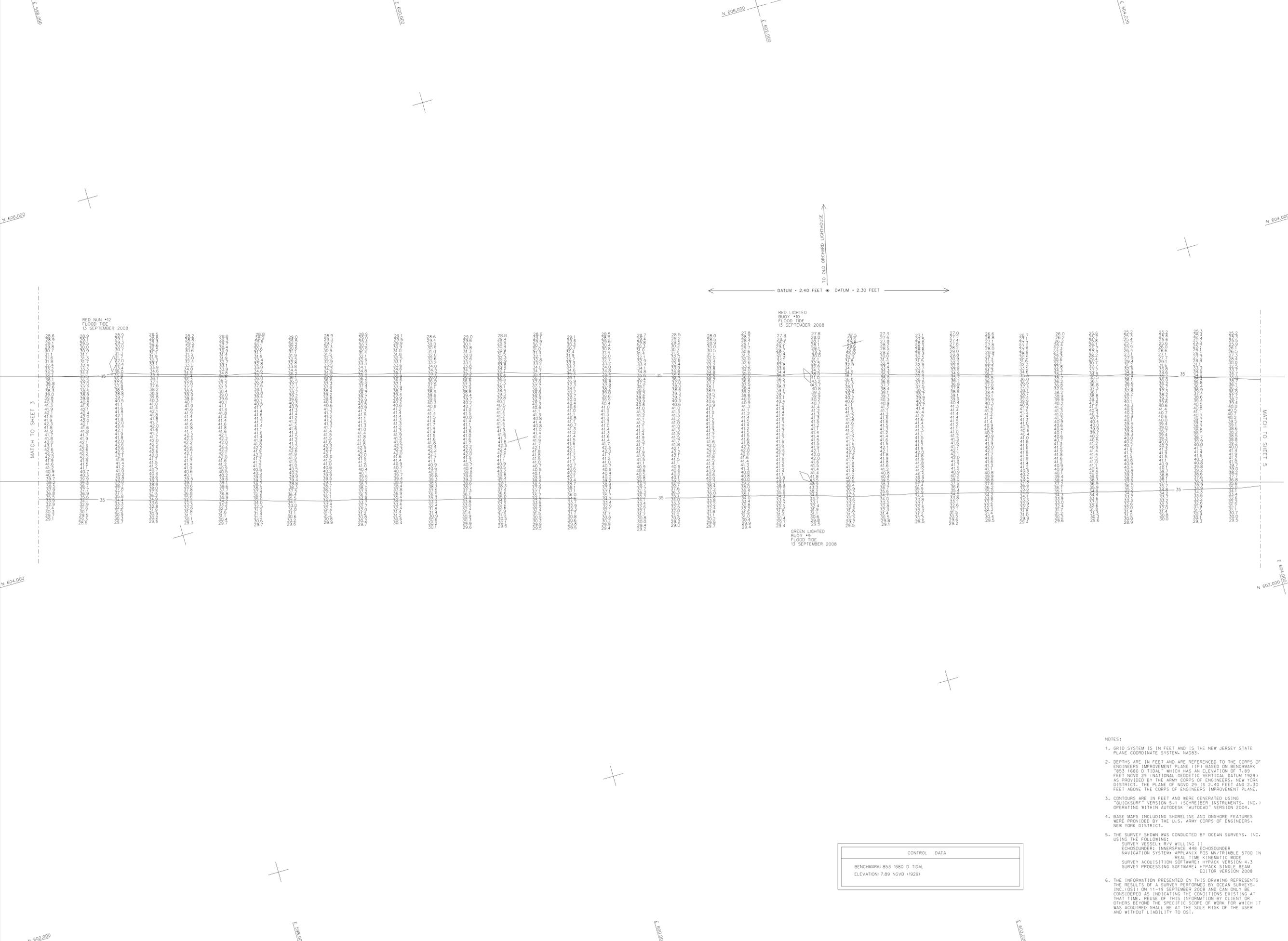
FIELD BOOKS:

FILE NO.: 1516  
REVISION NO.: 185

NEW YORK & NEW JERSEY CHANNELS  
RARITAN BAY EAST REACH  
CONDITION SURVEY

VH-102  
SHEET 2 OF 6





CONTROL DATA	
BENCHMARK: 853 1680 D TIDAL	
ELEVATION: 7.89 NGVD (1929)	

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  - CONTOURS ARE IN FEET AND WERE GENERATED USING "QUICKSURF" VERSION 5.1 (SCHREIBER INSTRUMENTS, INC.) OPERATING WITHIN AUTODESK "AUTOCAD" VERSION 2004.
  - BATH MAPS INCLUDING SHORELINE AND ONSHORE FEATURES WERE PROVIDED BY THE U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT.
  - THE SURVEY SHOWN WAS CONDUCTED BY OCEAN SURVEYS, INC. USING THE FOLLOWING:  
SURVEY VESSEL: R/V WILLING 11  
ECHOSOUNDER: INNERSPACE 448 ECHOSOUNDER NAVIGATION SYSTEM: APPLANIX POS-MV/TRIANGLE 5700 IN REAL TIME KINEMATIC MODE  
SURVEY ACQUISITION SOFTWARE: HYPPACK VERSION 4.3  
SURVEY PROCESSING SOFTWARE: HYPPACK SINGLE BEAM EDITOR VERSION 2008
  - THE INFORMATION PRESENTED ON THIS DRAWING REPRESENTS THE RESULTS OF A SURVEY PERFORMED BY OCEAN SURVEYS, INC. (OSI) ON 11-19 SEPTEMBER 2008 AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME. REUSE OF THIS INFORMATION BY CLIENT OR OTHERS BEYOND THE SPECIFIC SCOPE OF WORK FOR WHICH IT WAS ACQUIRED SHALL BE AT THE SOLE RISK OF THE USER AND WITHOUT LIABILITY TO OSI.

DATE OF SURVEY:  
11-19 SEPTEMBER 2008

SCALE:  
ONE INCH = 500 FEET

FIELD BOOKS:

FILE NO.: 116  
PROJECT NO.: 249

APPROVED: E. WALLACE  
APPROVED: PATRICK BACINE  
APPROVED: J. WRAZ  
DATE: 3 NOVEMBER 2008

DEPARTMENT OF THE ARMY  
NEW YORK DISTRICT  
NEW YORK, NEW YORK 10218

OPERATIONS DIVISION  
SURVEY SECTION  
CEVAV-CP-S

NEW YORK & NEW JERSEY CHANNELS  
RARIITAN BAY EAST REACH  
CONDITION SURVEY

VH-104  
SHEET 4 OF 6





U.S. ARMY CORPS OF ENGINEERS  
NEW YORK DISTRICT



ENTRANCE TO CHAPEL HILL CHANNEL

RED & GREEN JUNCTION  
LIGHTED 'SP'  
WITH CONC  
FLOOD TIDE  
12 SEPTEMBER 2008

Table of depth soundings in feet, organized in columns across the chart area. Each column represents a specific easting coordinate. The soundings are numerical values representing depth in feet, with some values including 'M' for mud or 'S' for sand. The table is bounded by northings N 602.000 and N 598.000.

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  - BASE MAPS INCLUDING SHORELINE AND ONSHORE FEATURES WERE PROVIDED BY THE U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT.
  - THE SURVEY SHOWN WAS CONDUCTED BY OCEAN SURVEYS, INC. USING THE FOLLOWING:  
SURVEY VESSEL: R/V WILLING I  
ECHOSOUNDER: INNERSPACE 488 ECHOSOUNDER  
NAVIGATION SYSTEM: APPLIX POS MV/TREMBLE 5700 IN REAL TIME KINEMATIC MODE  
SURVEY ACQUISITION SOFTWARE: HYPACK VERSION 4.3  
SURVEY PROCESSING SOFTWARE: HYPACK SINGLE BEAM EDITOR VERSION 2008
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SCALE: ONE INCH = 200 FEET

FIELD BOOKS:

DATES OF SURVEY: 11-13 SEPTEMBER 2008

FILE NO.: 1516

PROJECT NO.: 1545

APPROVED: R. WALLACE (DATE)

APPROVED: PATRICK BAGLINE (DATE)

APPROVED: J. WELZ (DATE)

APPROVED: F. POSTIGLIONE (DATE)

DATE: 3 NOVEMBER 2008

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS  
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION  
SECTION ON  
CENAN-CP-S

NEW YORK & NEW JERSEY CHANNELS  
RARITAN BAY EAST REACH  
CONDITION SURVEY

VH-106  
SHEET 6 OF 6