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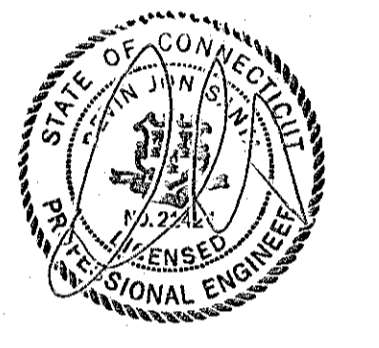
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REVISIONS:

NO.	DESCRIPTION	BY	DATE

NOT VALID WITHOUT ENGINEER'S SEAL.



PREPARED FOR:

TOWN OF FAIRFIELD
 DEPARTMENT OF PUBLIC WORKS
 SULLIVAN INDEPENDENCE HALL
 1ST FLOOR
 725 POST ROAD
 FAIRFIELD, CT 06824

PROJECT:

SOUTH BENSON MARINA
 DREDGE PLANNING STUDY

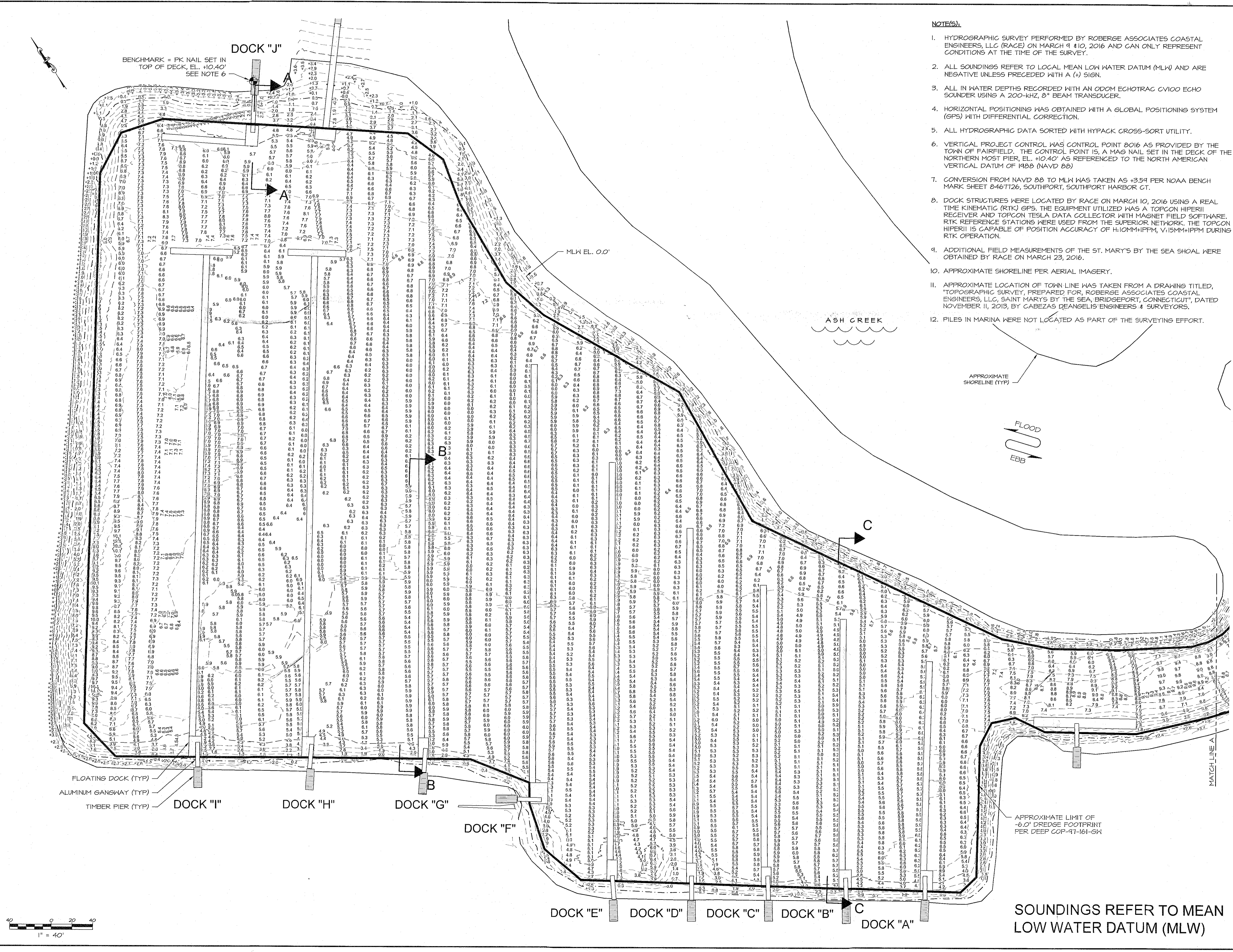
DRAWING:

CONDITION HYDROGRAPHIC
 SURVEY
 MARCH 9 & 10, 2016

Designed By:	SCS	Date:	3/18/2016
Drawn By:	JMD	Scale:	1" = 40'
Checked By:	DJS	Project Number:	201611
CAD File:	S BENSON CONDITION SURVEY 3-10-16.DWG	Drawing No.:	1 of 3

NOTE(S):

1. HYDROGRAPHIC SURVEY PERFORMED BY ROBERGE ASSOCIATES COASTAL ENGINEERS, LLC (RACE) ON MARCH 9 & 10, 2016 AND CAN ONLY REPRESENT CONDITIONS AT THE TIME OF THE SURVEY.
2. ALL SOUNDINGS REFER TO LOCAL MEAN LOW WATER DATUM (MLW) AND ARE NEGATIVE UNLESS PRECEDED WITH A (+) SIGN.
3. ALL IN WATER DEPTHS RECORDED WITH AN ODOM ECHOTRAC CV100 ECHO SOUNDER USING A 200-KHZ, 8" BEAM TRANSDUCER.
4. HORIZONTAL POSITIONING WAS OBTAINED WITH A GLOBAL POSITIONING SYSTEM (GPS) WITH DIFFERENTIAL CORRECTION.
5. ALL HYDROGRAPHIC DATA SORTED WITH HYPACK CROSS-SORT UTILITY.
6. VERTICAL PROJECT CONTROL WAS CONTROL POINT 2016 AS PROVIDED BY THE TOWN OF FAIRFIELD. THE CONTROL POINT IS, A MAG NAIL SET IN THE DECK OF THE NORTHERN MOST PIER, EL. +10.40' AS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
7. CONVERSION FROM NAVD 88 TO MLW WAS TAKEN AS +3.59 PER NOAA BENCH MARK SHEET 8461126, SOUTHPORT, SOUTHPORT HARBOR CT.
8. DOCK STRUCTURES WERE LOCATED BY RACE ON MARCH 10, 2016 USING A REAL TIME KINEMATIC (RTK) GPS. THE EQUIPMENT UTILIZED WAS A TOPCON HIPERII RECEIVER AND TOPCON TESLA DATA COLLECTOR WITH MAGNET FIELD SOFTWARE. RTK REFERENCE STATIONS WERE USED FROM THE SUPERIOR NETWORK. THE TOPCON HIPERII IS CAPABLE OF POSITION ACCURACY OF H:10MM/HPMM, V:15MM/HPMM DURING RTK OPERATION.
9. ADDITIONAL FIELD MEASUREMENTS OF THE ST. MARY'S BY THE SEA SHOAL WERE OBTAINED BY RACE ON MARCH 23, 2016.
10. APPROXIMATE SHORELINE PER AERIAL IMAGERY.
11. APPROXIMATE LOCATION OF TOWN LINE WAS TAKEN FROM A DRAWING TITLED, "TOPOGRAPHIC SURVEY, PREPARED FOR, ROBERGE ASSOCIATES COASTAL ENGINEERS, LLC, SAINT MARY'S BY THE SEA, BRIDGEPORT, CONNECTICUT", DATED NOVEMBER 11, 2013, BY CABEZAS DEANGELIS ENGINEERS & SURVEYORS.
12. PILES IN MARINA WERE NOT LOCATED AS PART OF THE SURVEYING EFFORT.



1" = 40'