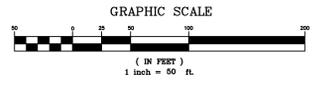
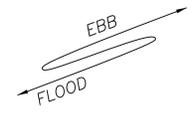
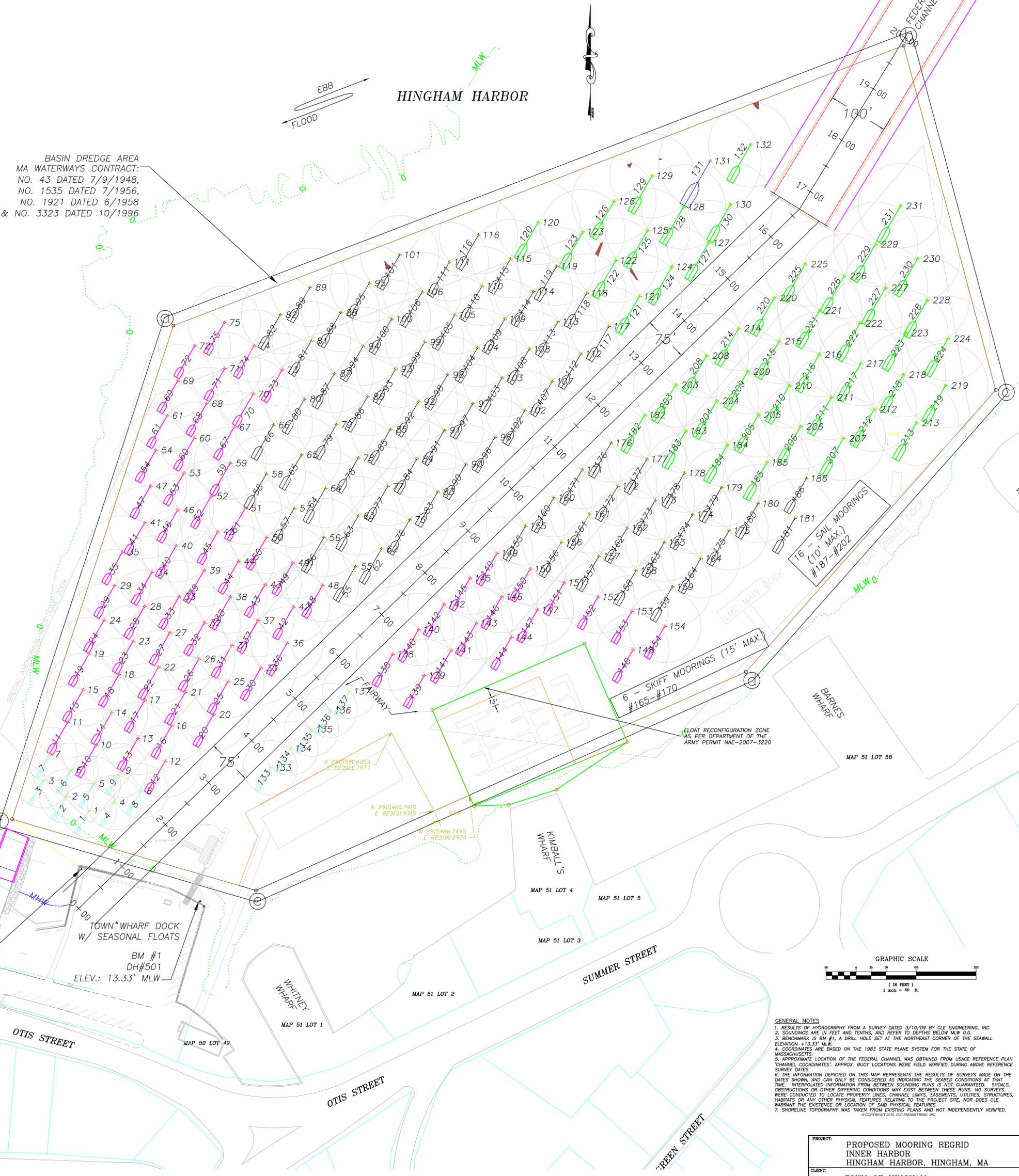


# HINGHAM HARBOR

BASIN DREDGE AREA  
 MA WATERWAYS CONTRACT:  
 NO. 43 DATED 7/9/1948,  
 NO. 1535 DATED 7/1956,  
 NO. 1921 DATED 6/1958  
 & NO. 3323 DATED 10/1996



**GENERAL NOTES**

- RESULTS OF HYDROGRAPHY FROM A SURVEY DATED 3/10/09 BY CLE ENGINEERING, INC.
- SOUNDINGS ARE IN FEET AND TENTHS, AND REFER TO DEPTHS BELOW MLW O.D.
- BENCHMARK IS BM #1, A DRILL HOLE SET AT THE NORTHEAST CORNER OF THE SEAWALL ELEVATION +13.33' MLW.
- COORDINATES ARE BASED ON THE 1983 STATE PLANE SYSTEM FOR THE STATE OF MASSACHUSETTS.
- APPROXIMATE LOCATION OF THE FEDERAL CHANNEL WAS OBTAINED FROM USACE REFERENCE PLAN 'CHANNEL COORDINATES'. APPROX. BUOY LOCATIONS WERE FIELD VERIFIED DURING ABOVE REFERENCE SURVEY DATES.
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATING THE SEABED CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. NO SURVEYS WERE CONDUCTED TO LOCATE PROPERTY LINES, CHANNEL LIMITS, EASEMENTS, UTILITIES, STRUCTURES, HABITATS OR ANY OTHER PHYSICAL FEATURES RELATING TO THIS PROJECT SITE. NOR DOES OLE WARRANT THE EXISTENCE OR LOCATION OF SAID PHYSICAL FEATURES.
- SHORELINE TOPOGRAPHY WAS TAKEN FROM EXISTING PLANS AND NOT INDEPENDENTLY VERIFIED.

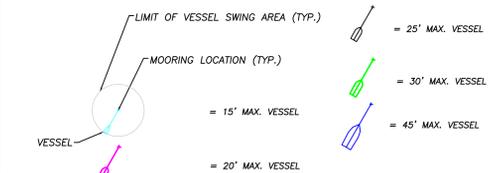
**MOORING NOTES**

1. SWING LENGTH BASED ON FOLLOWING:  
 15' HEAVY CHAIN, 15' LIGHT CHAIN, PENNANT LENGTH = 2.5X WATER LEVEL TO CHOCK (MAX. LENGTH SHOWN = 14'; 10' PLAN VIEW)

2. MOORING LOCATION IS AS SHOWN. SWING FROM MOORING LOCATION = VESSEL LENGTH + 40'; FOR VESSELS UP TO 15' SWING IS VESSEL LENGTH + 30'

3. REFER TO SOUNDINGS PLAN FOR DEPTHS.

4. SWING DIAMETERS FOR VESSELS ARE AS SHOWN AND INCLUDE OVERLAP WHICH MAY ALLOW VESSELS TO HIT ONE ANOTHER OR SWING OUT OF DREDGED AREA.



PROJECT:		PROPOSED MOORING REGRID INNER HARBOR HINGHAM HARBOR, HINGHAM, MA	
CLIENT:		TOWN OF HINGHAM 210 CENTRAL STREET HINGHAM, MA 02043	
DRAWN BY:		SEN	
CHECKED BY:		CGP	
DATE:		03/17/10	
DRAWING NO.:		HinghamInnerHarbor_Moorings	
REVISION NO.:		COMP CODE 07024.100	
DATE:		COMMENT:	

**cle**  
**CLE ENGINEERING, INC.**  
 15 Creek Road, Marion, MA 02738 (508) 748-0937

SITE PLAN: 40' SCOPE SHEET 1 OF 1