TIDAL BENCH MARK

TIDAL BENCHMARK IS BENCHMARK ARM.
BENCHMARK IS A STANDARD C.O.E. DISK STAMPED "ARM 2005".
FROM THE INTERSECTION OF QUARANTINE RD. AND MD. RTE. 173, NORTHERN ANNE ARUNDEL CO., MD., GO EASTERLY AND SOUTHERLY ON MD. RTE. 173 FOR 0.5 MILES TO A RIGHT RAMP SERVICE ROAD TO FORT ARMISTEAD RD., AFTER CROSSING SAID RTE. 173 GO 1.3 MILES TO THE END, AT A PARKING LOT. TURN RIGHT AND GO TO THE 2ND GRASS ISLAND (JUST PRIOR TO ROAD RAMP TO LOWER SECTION AT BOAT RAMP). STOP. MONUMENT "ARM" IS ON THE ISLAND E 18.55 FT. FROM A LIGHT POLE AND N 95.50 FT. FROM A LIGHT POLE.

BENCH MARK ELEV. IS 19.50' MLLW FOR THE 2010 TIDAL EPOCH. ELEVATION COMPUTATED USING GEOID12B.

BENCHMARK	MLLW
ARM	19.50'
ARM 2	22.90'
ARMSTEAD 2005	19.79'

VERTICAL DATUM

MHW = 1.38
NAVD88 = 0.83
MLW = 0.21
MLLW 0.00 ft

CONTRACTOR NOTE

THE CONTRACTOR SHALL VERIFY TO HIS SATISFACTION ALL DISTANCES, AZIMUTH, BEARINGS AND COORDINATES SHOWN ON THESE PLANS, PRIOR TO THEIR USE FOR ANY CHANNEL STAKE OUT, SHORE STATION LOCATIONS FOR ELECTRONIC POSITIONING EQUIPMENT OR ANY OTHER DREDGING PURPOSES. THE BALTIMORE DISTRICT CORPS OF ENGINEERS IS NOT RESPONSIBLE IN ANY WAY FOR ANY DREDGING OR CONSTRUCTION PROBLEMS RESULTING FROM A FAILURE OF THE CONTRACTOR OR SUBCONTRACTORS TO CONFIRM COORDINATES, DISTANCES AND AZIMUTHS SHOWN ON PLANS PRIOR TO ANY DREDGING OR CONSTRUCTION.

NOTE:

1. STATIONS ARE AT 1000' INTERVALS.
2. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. VERTICAL DATUM: M.L.L.W., FOR THE '83 TO '01 TIDAL EPOCH.
4. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
5. SURVEYED USING AN TRIMBLE GLOBAL POSITIONING SYSTEM.
6. THE BOTTOM WAS DEFINED BY A R2SONICS 2024 SONAR SYSTEM AND AN ODOM ECHOSOUNDER USING A 200KHZ TRANSDUCER.
7. PROJECT DEPTH: 50 FEET.
8. CHANNEL WIDTH IS 700 FEET.
9. SURVEYED ON 8 & 20 JANUARY AND 2 & 25 FEBRUARY 2016.
10. TIDE READ AT FORT ARMSTEAD PIER ON 20 JAN AND 2 FEB 2016.
11. TIDE READ AT NOAA AUTOGUAGE ON 8 JAN AND 25 FEB 2016.
11. TIDAL ZONING WAS APPLIED FOR THE 8 JAN & 25 FEB 2016 SURVEYS. TIDAL ZONE NCB117 WAS USED (0 MINUTES/X0.96 TIDAL CORRECTION).

BREWERTON ANGLE CHANNEL

RIGHT GEOMETRY Easting (X)	RIGHT GEOMETRY Northing (Y)	STATION	CENTERLINE GEOMETRY Easting (X)	CENTERLINE GEOMETRY Northing (Y)	LEFT GEOMETRY Easting (X)	LEFT GEOMETRY Northing (Y)
1453103.75	558092.50	82+800.00	1453228.83	558419.40	1453353.30	558746.60
1450368.00	559136.00	83+300.11	1452750.90	558601.70	1448854.19	562060.98
1448315.07	561614.40	88+100.00	1448903.40	561452.80		
		88+600.00	1448584.60	561837.67		

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.
		3/17/08	SMG				

US Army Corps of Engineers
Baltimore District

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:		Date: MARCH '16	Rev.
Dwn by: JAH	Ckd by: SMG	Design file no. FILE: 17 MAP: 16-041	
Reviewed by: SMG		Drawing code:	
Submitted by: Chief, Nav. Branch		File name: BH_14_1BA_20160225 Plot date: Plot scale:	

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
BREWERTON ANGLE
STATION 82+700 TO 89+000

Sheet reference number:
V-117
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