CUTOFF ANGLE CHANNEL COORDINATES (NAD83)

STATION	BEARING	AZIMUTH	RIGHT SIDE	CENTERLINE	LEFT RIGHT
58+982.30					1474130.82 548043.30
59+000.00	N 49 58 57.5 W	310 1 2-5	1474540.66 548722.31	1474240.16 548542.86	
60+408.24			1475038.99 550234.47		
60+601.23	N 69 7 14.3 W	290 52 45.7	1475225.96 550788.36	1470176.25 551954.95	
64+034.57			1470300.99 552281.96		1469703.15 551760.81

TIDAL BENCH MARK

TIDAL BENCH MARK IS BENCH MARK NO 3. BENCH MARK IS A NGS DISK STAMPED "NO 3 1959" FROM THE INTERSECTION OF (STATE HWY. 718) SPARROWS POINT RD. AND (STATE HWY. 20) NORTH POINT RD., EDGEMERE, BALTIMORE CO., MD., GO SOUTHERLY ON NORTH POINT ROAD, ABOUT .3 MILES, TO THE ENTRANCE OF FORT HOWARD THRU THE GATE, NOW GETTYSBURG AVE., GO 0.33 MILES AND STOP. MONUMENT "NO 3" IS ON THE RIGHT, NE 104.4 FT. FROM THE BULKHEAD, SW 56.1FT. FROM A LIGHT POLE AND SE 66.5 FT FROM AN ASPHALT DRIVE, ALSO NW OF A BASKETBALL COURT.

BENCH MARK ELEV. IS 7.07 FOR THE '83-'01 TIDAL EPOCH. COMPUTED USING GEOID12B.

VERTICAL DATUM

BENCHMARK	MLLW
NO 3	7.76'
WIRE	5.06'

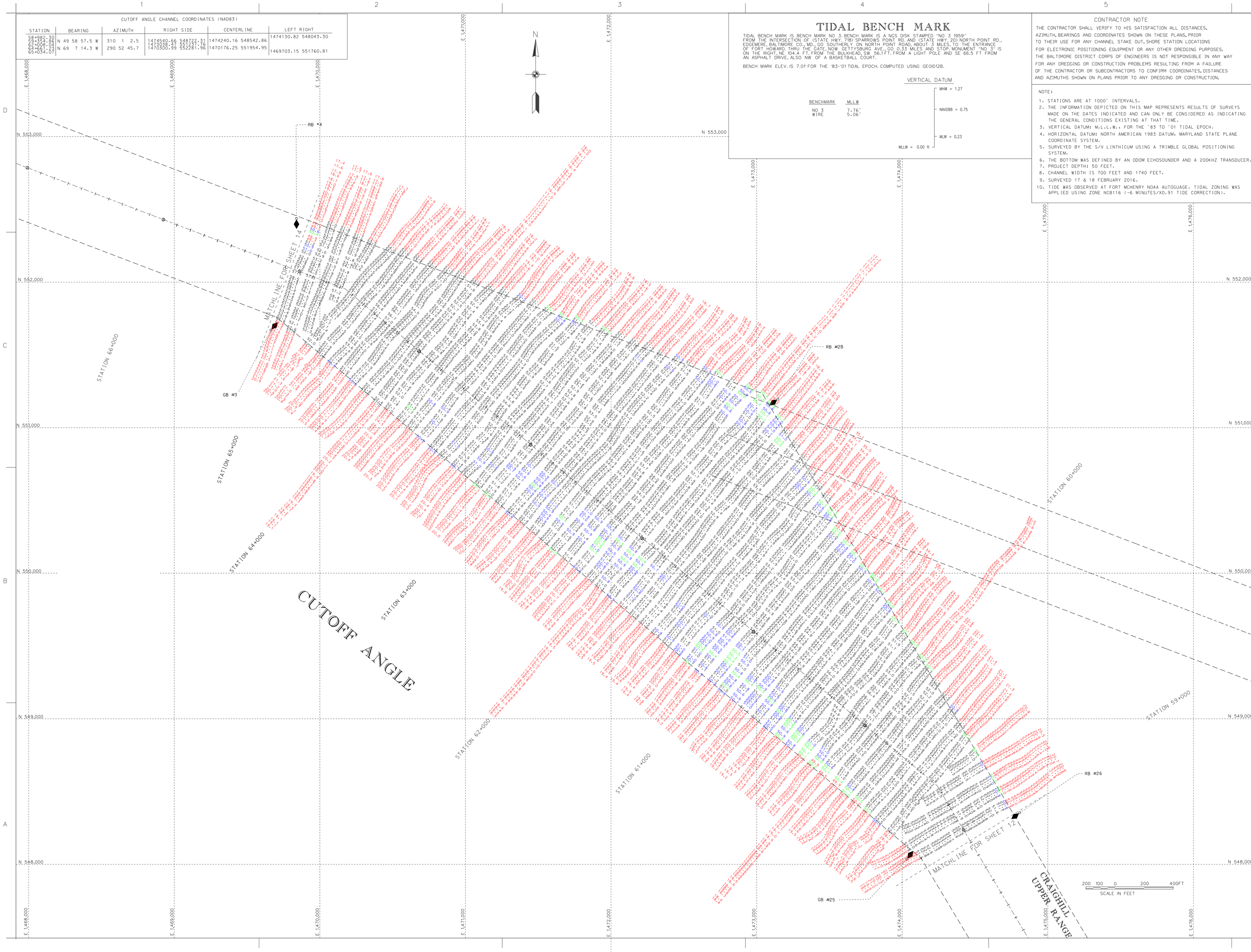
MHW = 1.27
NAVD88 = 0.75
MLW = 0.23
MLLW = 0.00 ft

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 BY THE S/V LINTHICUM USING A TRIMBLE GLOBAL POSITIONING SYSTEM.
6. THE BOTTOM WAS DEFINED BY AN ODOM ECHOSOUNDER AND A 200KHZ TRANSDUCER.
7. PROJECT DEPTH: 50 FEET.
8. CHANNEL WIDTH IS 700 FEET AND 1740 FEET.
9. SURVEYED 17 & 18 FEBRUARY 2016.
10. TIDE WAS OBSERVED AT FORT MCHENRY NOAA AUTOGUAGE. TIDAL ZONING WAS APPLIED USING ZONE NCB116 (-6 MINUTES/X0.91 TIDE CORRECTION).



US Army Corps of Engineers
Baltimore District

Mark	Appr.	Date	Description

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Date by: 2015
Drawn by: SMG
Checked by: SMG
Reviewed by:
Submitted by:
Date: 2016-15
Design file no. Cutoff Ch-Sht 13-042
Drawing scale:
File name: Rb_Ch_20160608
Plot date:
Plot scale:
Rev.

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
CUTOFF ANGLE
STATION 59+000 TO 65+000

Sheet reference number:
V-113
Sheet 13 of 59