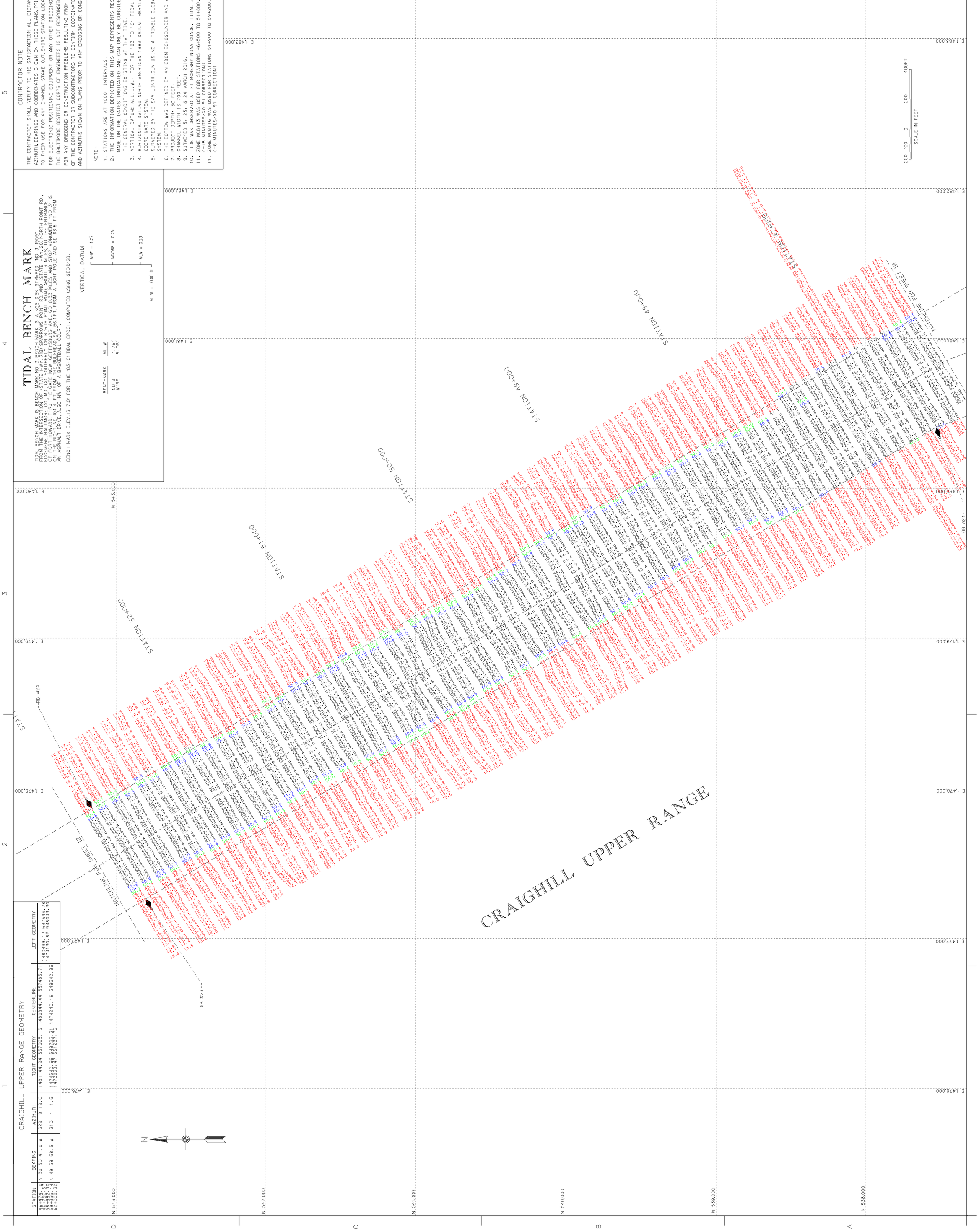


CRAIGHILL UPPER RANGE GEOMETRY

STATION	BEARING	AZIMUTH	RIGHT GEOMETRY	CENTERLINE	LEFT GEOMETRY
46+474.10	N 30 50 41.0 W	329 9 19.0	1481144.94 537663.16	1480844.44 537483.71	
46+756.57					1480399.12 537546.78
58+982.30					1474130.82 548043.30
59+355.14	N 49 58 58.5 W	310 1 1.5	1474540.66 548722.31	1474240.16 548542.86	
62+008.32			1473038.47 551237.76		

1
2
3
4
5
A
B
C
D
N
N 543,000
N 542,000
N 541,000
N 540,000
N 539,000
N 538,000
E 1,476,000
E 1,477,000
E 1,478,000
E 1,479,000
E 1,480,000
E 1,481,000
E 1,482,000
E 1,483,000
CRAIGHILL UPPER RANGE
MATCHLINE FOR SHEET 12
MATCHLINE FOR SHEET 10
STATION 52+000
STATION 51+000
STATION 50+000
STATION 49+000
STATION 48+000
STATION 47+000
STAT
GB #23
RB #24
GB #21
200 100 0 200 400FT
SCALE IN FEET

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 56.1 FT. FROM A LIGHT POLE AND SE 66.5 FT FROM AN ASPHALT DRIVE, ALSO NW OF A BASKETBALL COURT.

BENCH MARK ELEV. IS 7.01' FOR THE '83-'01 TIDAL EPOCH. COMPUTED USING GEOID12B.

BENCHMARK	MLLW
NO 3	7.76'
WIRE	5.06'

VERTICAL DATUM

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.
9. SURVEYED 3, 23, & 24 MARCH 2016.
10. TIDE WAS OBSERVED AT FT MCHENRY NOAA GUAGE. TIDAL ZONING WAS APPLIED.
11. ZONE NCB113 WAS USED FOR STATIONS 46+500 TO 51+800. (-18 MINUTES/X0.91 CORRECTION)
11. ZONE NCB116 WAS USED FOR STATIONS 51+900 TO 59+200. (-6 MINUTES/X0.91 CORRECTION)

US Army Corps
of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

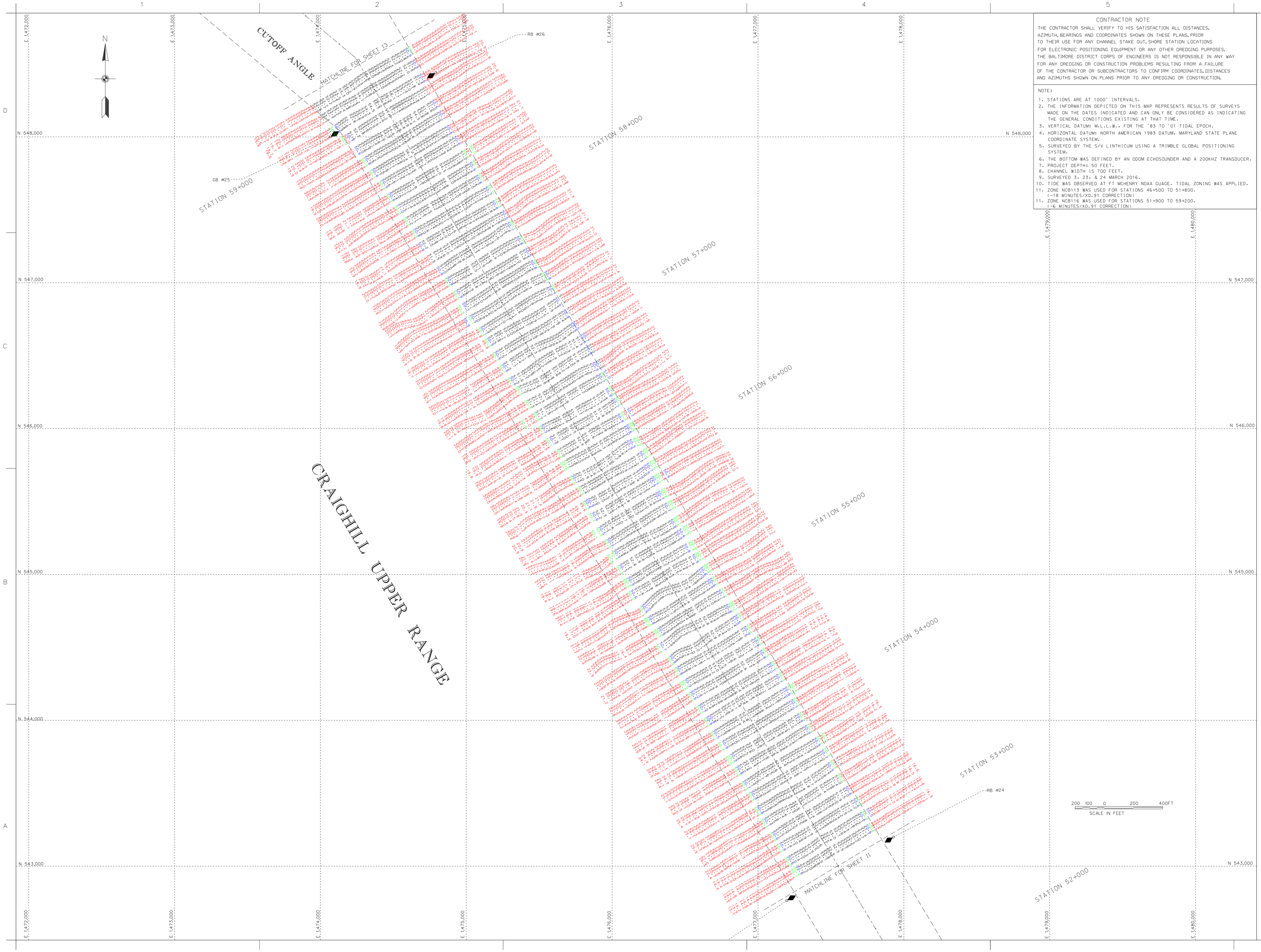
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:		Date: MARCH '16	Rev.
Dwn by: JAH	Ckd by: SMG	Design file no. FILE: 17 MAP: 16-058	
Reviewed by: SMG		Drawing code:	
Submitted by:		File name:BH_23_1UR_20160324 Plot date: Plot scale:	

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
CRAIGHILL UPPER RANGE
STATION 46+500 TO 52+900

Sheet
reference
number:
V-111
Sheet 11 of 59



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.
9. SURVEYED 3. 23. & 24 MARCH 2016.
10. TIDE WAS OBSERVED AT FT MCHENRY NOAA GUAGE. TIDAL ZONING WAS APPLIED.
11. ZONE NCB113 WAS USED FOR STATIONS 46+500 TO 51+800. (-18 MINUTES/X0.91 CORRECTION)
11. ZONE NCB116 WAS USED FOR STATIONS 51+900 TO 59+200. (-6 MINUTES/X0.91 CORRECTION)

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Date:
Drawn by: JB
Checked by: SBC
Reviewed by: SWC
Submitted by:
Date: 03/01/2016
Design file no.
CHARTS Number: 5259
Drawing scale:
File name: 03_Sub_20160304
Plot date:
Plot scale:
Rev.

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
CRAIGHILL UPPER RANGE
STATION 53+000 TO 59+200

Sheet reference number:
V-112
Sheet 12 of 59