CONDITION SURVEY

ANACOSTIA RIVER, WASHINGTON HARBOR & POTOMAC RIVER
WASHINGTON, D.C. AND VIRGINIA

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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:
Dwn by: JAH
Ckd by: SMG
Reviewed by: SMG
Submitted by:
Chief, Nav. Branch
Date: NOV. '15
Rev.
Design file no. FILE:B-32 MAP:16-003
Drawing code:
File name: MD_101_101_20151118
Plot date:
Plot scale:

WASHINGTON, D.C. & VIRGINIA
CONDITION SURVEY
ANACOSTIA CHANNEL
WASHINGTON HARBOR
POTOMAC RIVER
COVER SHEET

Sheet reference number:
V-101
Sheet 1 of 11

ANACOSTIA RIVER CHANNEL COORDINATES

RIGHT GEOMETRY		CENTERLINE GEOMETRY STATION	Easting (X)	Northing (Y)	LEFT GEOMETRY	
1317013.82	440459.64	0+000.00	1317064.30	440373.32	1317215.74	440114.35
1316419.75	440112.25	0+683.47	1316474.30	440028.31	1316853.18	439902.34
1315511.47	439459.10	1+779.70	1315584.30	439388.30	1316528.85	439944.37
1315395.99	439087.88	2+186.19	1315450.92	439004.31	1315667.13	439317.50
1314931.21	438784.49	2+741.80	1314985.66	438700.61	1315505.84	438920.74
1314878.45	438865.77	3+691.54	1314275.38	438070.13	1315040.10	438616.73
1314403.79	438449.02	6+108.90	1311973.30	438007.77	1315098.54	438526.70
1312208.41	439152.49	6+754.94	1311369.73	438577.42	1314338.96	437859.78
1311485.49	438964.12	6+965.64	1311226.08	438423.28	1313811.86	437798.77
1311079.77	438559.64	7+269.19	1311019.15	438201.19	1311740.87	438463.25
1310854.11	438317.45	8+646.22	1310385.48	436978.62	1311418.83	438243.65
1310385.48	437414.08	10+109.38	1309713.48	435678.90	1311180.77	438081.31
1309562.10	435821.62	12+440.53	1307709.34	434488.24	1310385.48	436543.12
1307575.55	434641.40	12+842.68	1307459.33	434173.25	1309867.86	435542.02
1307291.68	434283.74	14+912.68	1306476.82	432351.28	1307846.13	434340.92
1306291.10	432428.24	15+838.01	1306211.44	431464.83	1307523.00	434185.77
1307291.68	434283.74	17+335.02	1305999.28	429982.93	1306209.93	432432.47
1305799.16	430001.53				1306405.66	431417.09
					1306295.61	429949.97

TIDAL BENCHMARK

TIDAL BENCHMARK IS BENCH MARK "NO 5 1973". BENCHMARK IS A STANDARD SURVEY DISK STAMPED "NO 5 1973", FROM THE INTERSECTION OF 1ST ST. SW AND M ST SW/MAIN AVE. SW. WASHINGTON D.C.. GO WEST ON M ST SW 0.4 MILES AND TURN LEFT ON 6TH ST. SW/ M PLACE SW. ROAD CURVES TO RIGHT. ENDS AT WATER ST. SW (ABOUT 0.1 MILES)TURN LEFT. GO 250 FT.MONUMENT IS ON THE RIGHT ON THE CONCRETE SEAWALL. SW 45.6 FEET FROM THE CENTERLINE OF WATER ST.. N 9.5' FROM THE NW CORNER OF THE WASHINGTON BOAT LINES BLDG. AND NW 1.3'FROM THE 1ST BRICK FENCE PILLAR NW OF THE NW GATE.

BENCHMARK ELEV. IS 9.12' ABOVE MLLW FOR THE 2010 TIDAL EPOCH. COMPUTED USING GEOID12B.

BENCHMARK	MLLW
NO 5 1973	9.12'
4900 K 2010	10.72'
4900F 1982	13.63'
GOLF	12.93'

VERTICAL DATUM

MHHW = 2.94
NAVD88 = 1.39
MLW = 0.15
MLLW = 0.00 ft

CONTRACTOR NOTE

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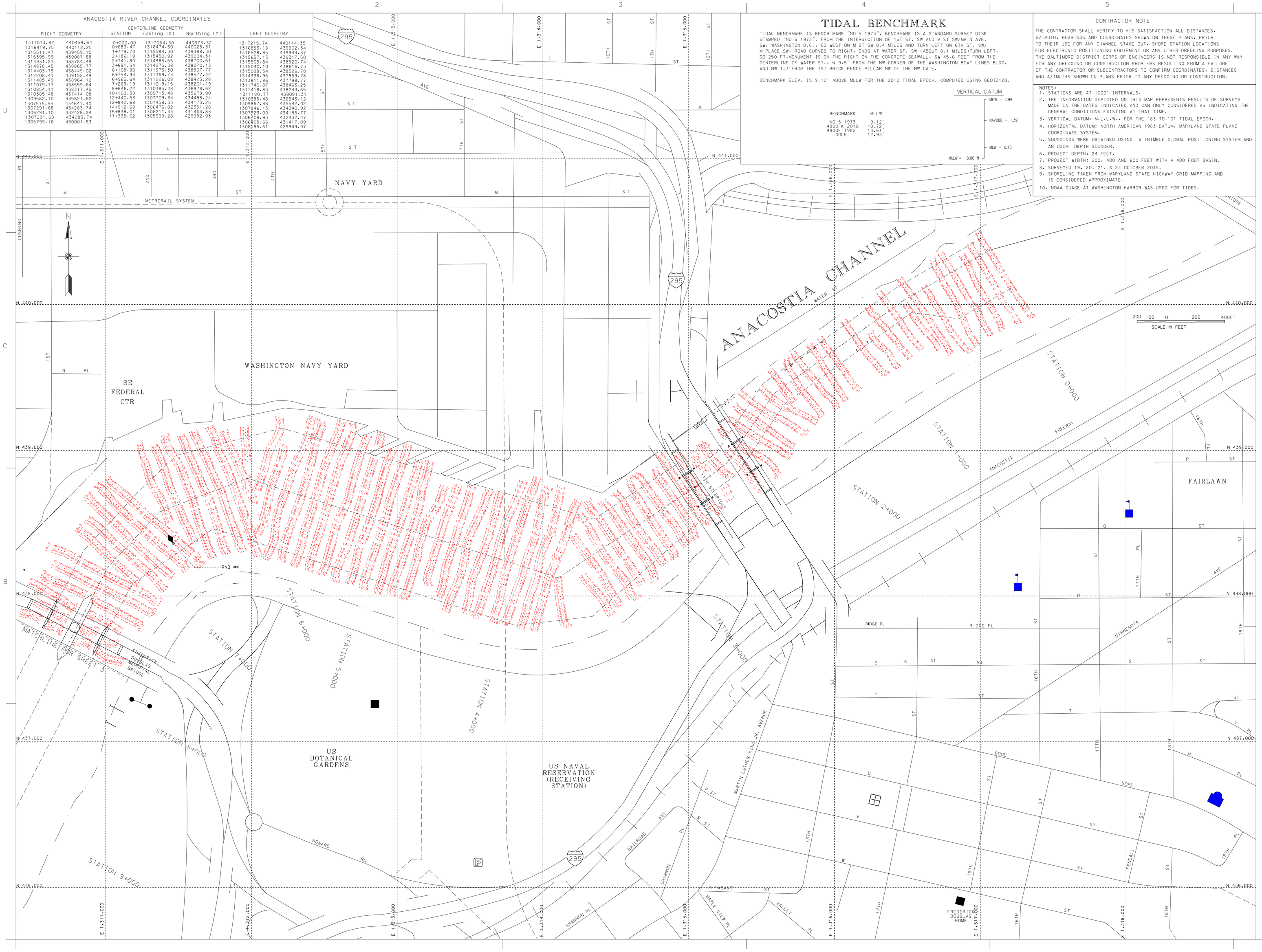
3. VERTICAL DATUM: M.L.L.W.. FOR THE '83 TO '01 TIDAL EPOCH.
4. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM. MARYLAND STATE PLANE COORDINATE SYSTEM.
5. SOUNDINGS WERE OBTAINED USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 24 FEET.
7. PROJECT WIDTH: 200. 400 AND 600 FEET WITH A 400 FOOT BASIN.
8. SURVEYED 19. 20. 21. & 23 OCTOBER 2015.
9. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY GRID MAPPING AND IS CONSIDERED APPROXIMATE.
10. NOAA GUAGE AT WASHINGTON HARBOR WAS USED FOR TIDES.



US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.
Mark	Description	Date	Appr.

Designed by: Dwn by: JM
Cvd by: GBD
Reviewed by: SMG
Submitted by: Chief, Nav. Branch
Date: 1.15
Design file name: 1316-004
Drawing code:
File name: 00_INLDRWG
Plot date:
Plot scale:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

WASHINGTON, D.C.
CONDITION SURVEY
ANACOSTIA CHANNEL
STATION 0+000 TO 8+000

Sheet reference number:
V-102
Sheet 2 of 12

CONTRACTOR NOTE

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7. PROJECT WIDTH: 200. 400 AND 600 FEET WITH A 400 FOOT BASIN.
8. SURVEYED 19. 20. 21. & 23 OCTOBER 2015.
9. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY GRID MAPPING AND IS CONSIDERED APPROXIMATE.
10. NOAA GUAGE AT WASHINGTON HARBOR WAS USED FOR TIDES.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Designed by:	Date: 15 Nov. 2015
Dwn by: SSC	Ckd by: SSC
Reviewed by: SMG	Design file no: 01-05-2015-016-005
Submitted by: Chief, Nav. Branch	Drawing code:
	File name: 01_05_2015016
	Plot date:
	Plot scale:
	Rev.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

WASHINGTON, D.C.

CONDITION SURVEY
ANACOSTIA CHANNEL
STATION 7+800 TO 15+000

Sheet reference number:
V-103
Sheet 3 of 11

CONTRACTOR NOTE

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5. SOUNDINGS WERE OBTAINED USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 24 FEET.
7. PROJECT WIDTH: 200, 400 AND 600 FEET WITH A 400 FOOT BASIN.
8. SURVEYED 19, 20, 21, & 23 OCTOBER 2015.
9. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY GRID MAPPING AND IS CONSIDERED APPROXIMATE.
10. NOAA GUAGE AT WASHINGTON HARBOR WAS USED FOR TIDES.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

Date: NOV. '15
Project Dir. or Chief: MAJOR H.E.DOBE
Drawing code:
File name:MBD-16-006
Plot scale:
Plot date:
File location:

Rev.

Designed by: J.W.
Date by: 10/15
Chk by: SMC
Reviewed by: SMC
Submitted by:
Check Hor. Brown

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

WASHINGTON, D.C.

CONDITION SURVEY
ANACOSTIA CHANNEL
STATION 15+100 TO 17+224

Sheet reference number:
V-104
Sheet 4 of 11

US Army Corps of Engineers
Baltimore District

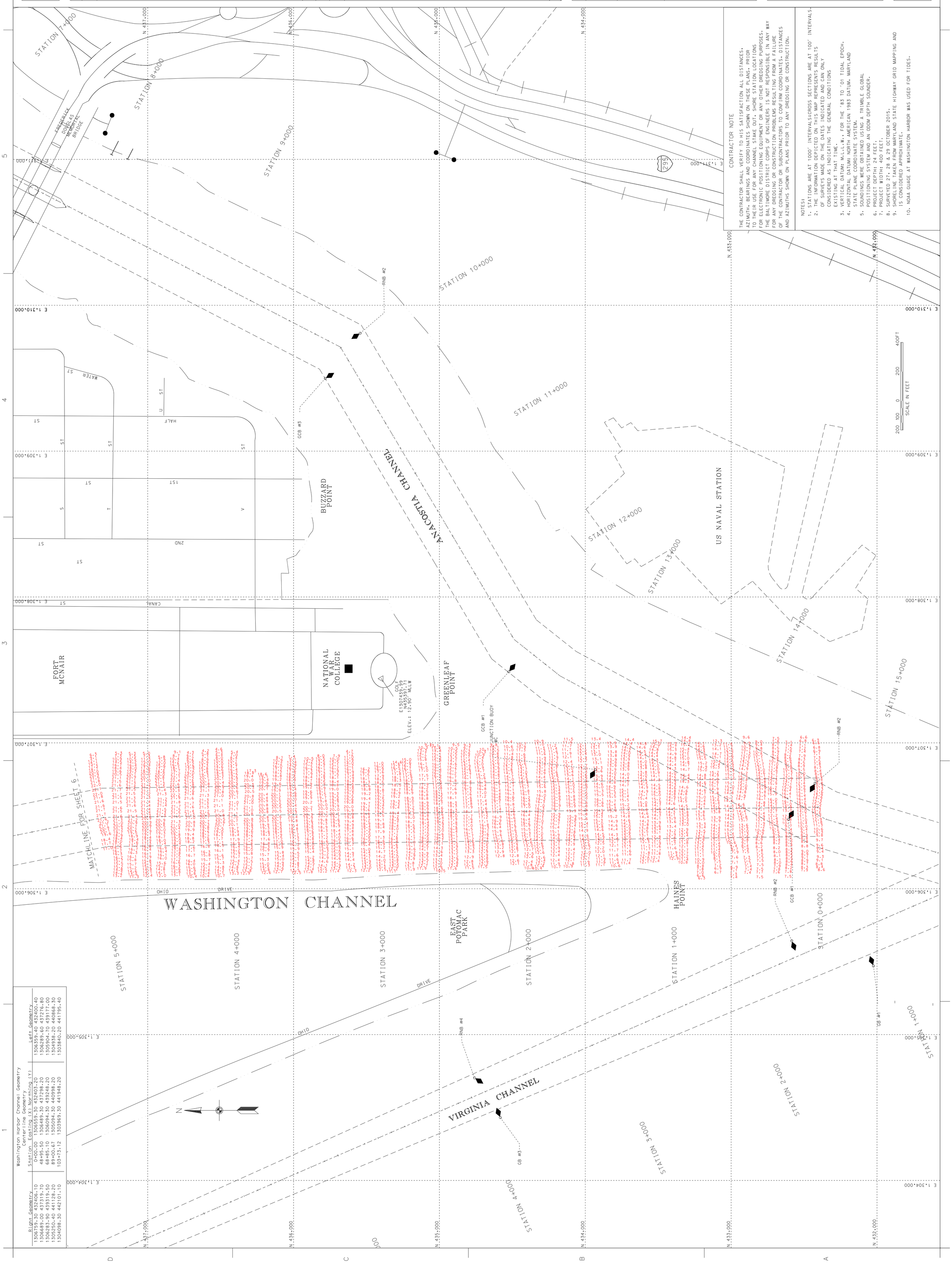
Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: | Date: NOV. '15 | Rev.
Dwn by: JAH | Ckd by: SMG
Reviewed by: SMG
Submitted by:
Chief, Nav. Branch
File name: MD_WI-101_20151118
Plot date:
Plot scale:
Design file no.: FILE#:B-32 MAP#:16-007
Drawing code:

WASHINGTON, D.C.
CONDITION SURVEY
WASHINGTON HARBOR
STATION 0+000 TO 4+900

Sheet reference number: V-105
Sheet 5 of 11



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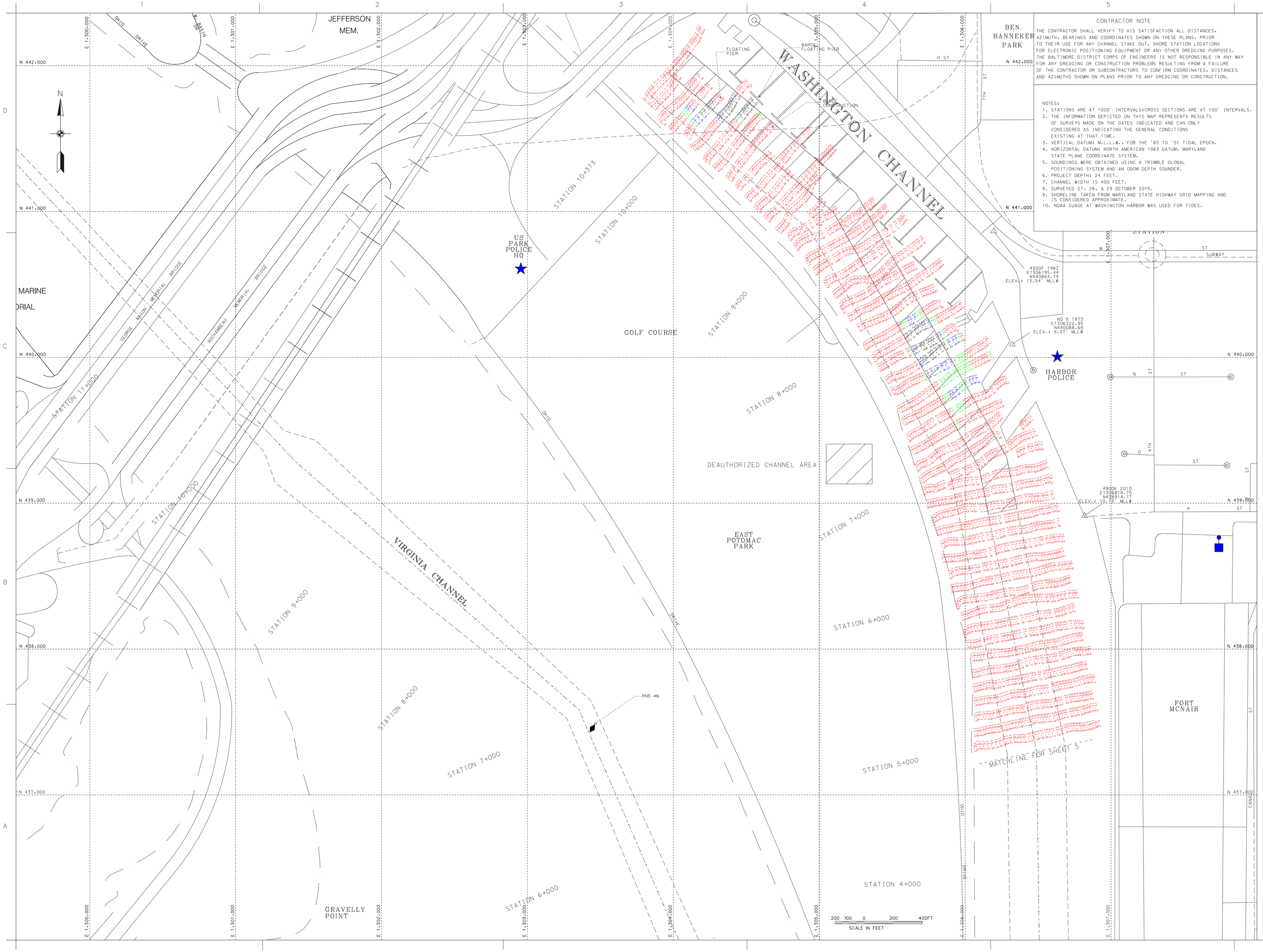
5. SOUNDINGS WERE OBTAINED USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 24 FEET.
7. PROJECT WIDTH: 400 FEET.
8. SURVEYED 27, 28 & 29 OCTOBER 2015.
9. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY GRID MAPPING AND IS CONSIDERED APPROXIMATE.
10. NOAA GUAGE AT WASHINGTON HARBOR WAS USED FOR TIDES.

Washington Harbor Channel Geometry

Centerline Geometry

Station	Easting (X)	Northing (Y)
0+00.00	1306559.30	432403.20
48+95.50	1306489.30	437298.20
68+85.10	1306094.30	439248.20
89+00.67	1305094.30	440998.20
103+73.12	1303969.30	441948.20

Right Geometry		Left Geometry	
1306759.30	432406.10	1306359.40	432400.40
1306689.00	437319.70	1306289.60	437276.80
1306283.90	439319.50	1305904.70	439177.00
1305250.40	441128.20	1304938.20	440868.30
1304098.30	442101.10	1303840.20	441795.40



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7. CHANNEL WIDTH IS 400 FEET.
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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Designed by:	Date: NOV. '15
Drawn by:	Design file no.
Plot date: 2:12:32	MAP116-008
Checked by:	Cad file:
Plot scale:	
Reviewed by: SMG	Cad by: SMG
Submitted by:	File name: MD_Ch_04_20151118
Plot date:	
Const. Ops. Branch	Plot scale:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

WASHINGTON, D.C.
CONDITION SURVEY
WASHINGTON HARBOR
STATIONS 5+000 TO 10+373

Sheet reference number:
V-106
Sheet 6 of 11

Virginia Channel Geometry

Right Geometry

1306341.75	431190.26
1303435.89	437644.51
1301546.70	439432.03
1301332.72	439496.83
1296572.67	444517.27
1295813.43	448817.83
1295287.87	449350.83
1292977.87	450124.75

Centerline Geometry

Station	Easting (X)	Northing (Y)
0+000.00	1306159.39	431108.15
7+059.21	1303352.82	437585.46
9+642.16	1301409.28	439286.72
16+775.87	1296528.88	444489.75
21+131.63	1295720.35	448769.82
21+825.10	1295233.45	449263.61
24+237.41	1292946.10	450029.94

Left Geometry

1305977.02	431026.05
1303269.74	437526.40
1301271.87	439141.42
1301195.30	439351.53
1296479.09	444461.23
1295627.29	448721.77
1295178.91	449176.42
1292914.34	449935.12

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5. SOUNDINGS WERE OBTAINED USING AN TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 24 FEET.
7. PROJECT WIDTH: 200 AND 400 FEET .
8. SURVEYED 9 & 18 NOVEMBER 2015.
9. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY GRID MAPPING AND IS CONSIDERED APPROXIMATE.
10. TIDE WAS OBSERVED AT WASHINGTON HARBOR NOAA AUTOGUAGE.

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: NOV. '15 — Rev.
	Dwn by: JAH — Ckd by: SMG	Design file no. FILE: B-32 MAP:16-009
	Reviewed by: SMG	Drawing code:
	Submitted by: Chief, Nav. Branch	File name:MD_101_101_20151118 Plot date: Plot scale:

WASHINGTON, D.C.

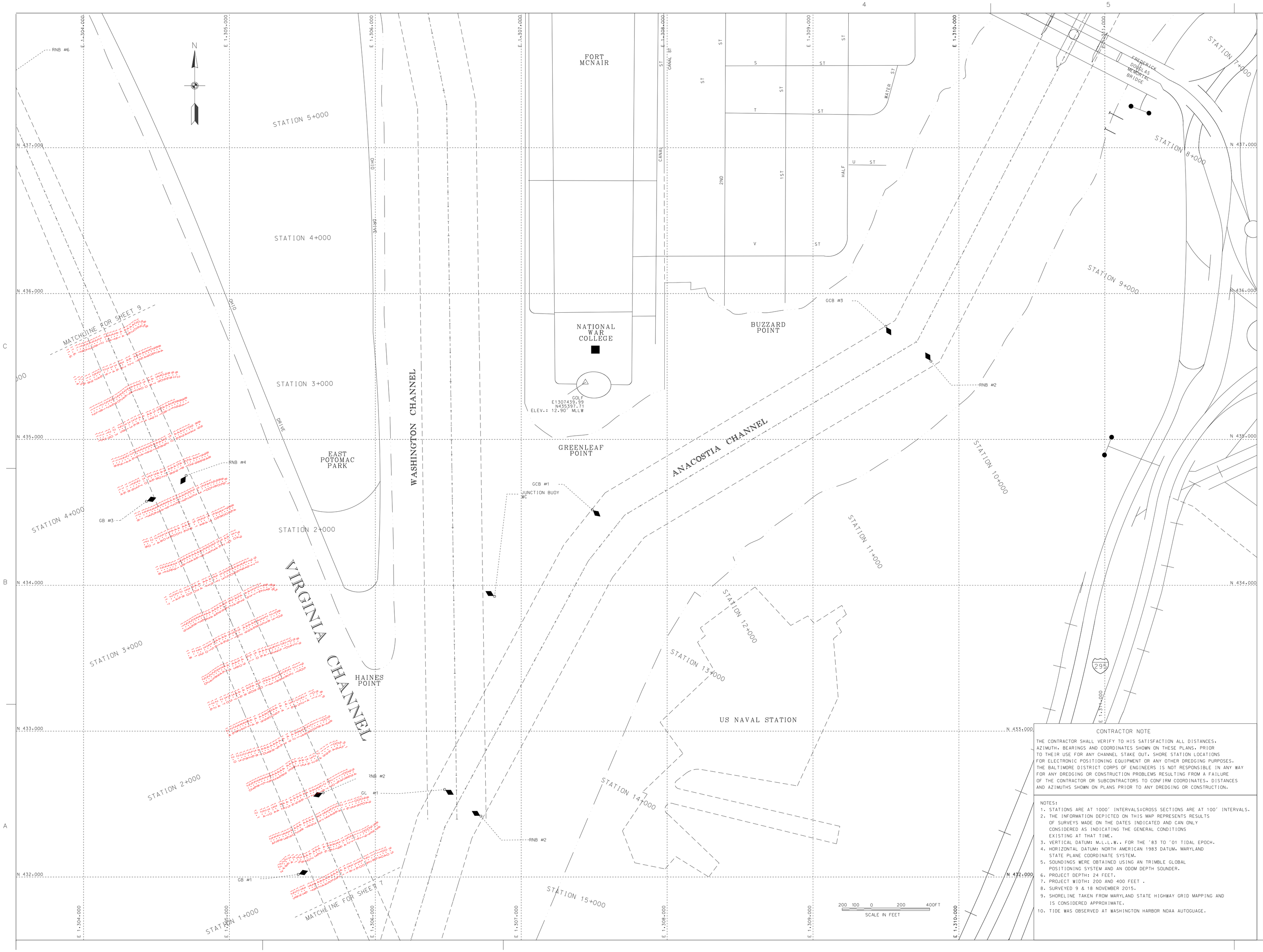
CONDITION SURVEY

POTOMAC RIVER - VIRGINIA CHANNEL

STATIONS 0+00 TO 0+800

Sheet reference number: V-107

Sheet 7 of 11



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6. PROJECT DEPTH: 24 FEET.
7. PROJECT WIDTH: 200 AND 400 FEET .
8. SURVEYED 9 & 18 NOVEMBER 2015.
9. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY GRID MAPPING AND IS CONSIDERED APPROXIMATE.
10. TIDE WAS OBSERVED AT WASHINGTON HARBOR NOAA AUTOGUAGE.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Rev. 15 Nov.

Design file no. 0101-0103-0304-14-010

Drawing code

File name: BOC-SCJ0298

Plot date

Plot scale

Designed by:

Drawn by: J.M.

Cad by: SJBC

Reviewed by:

SMG

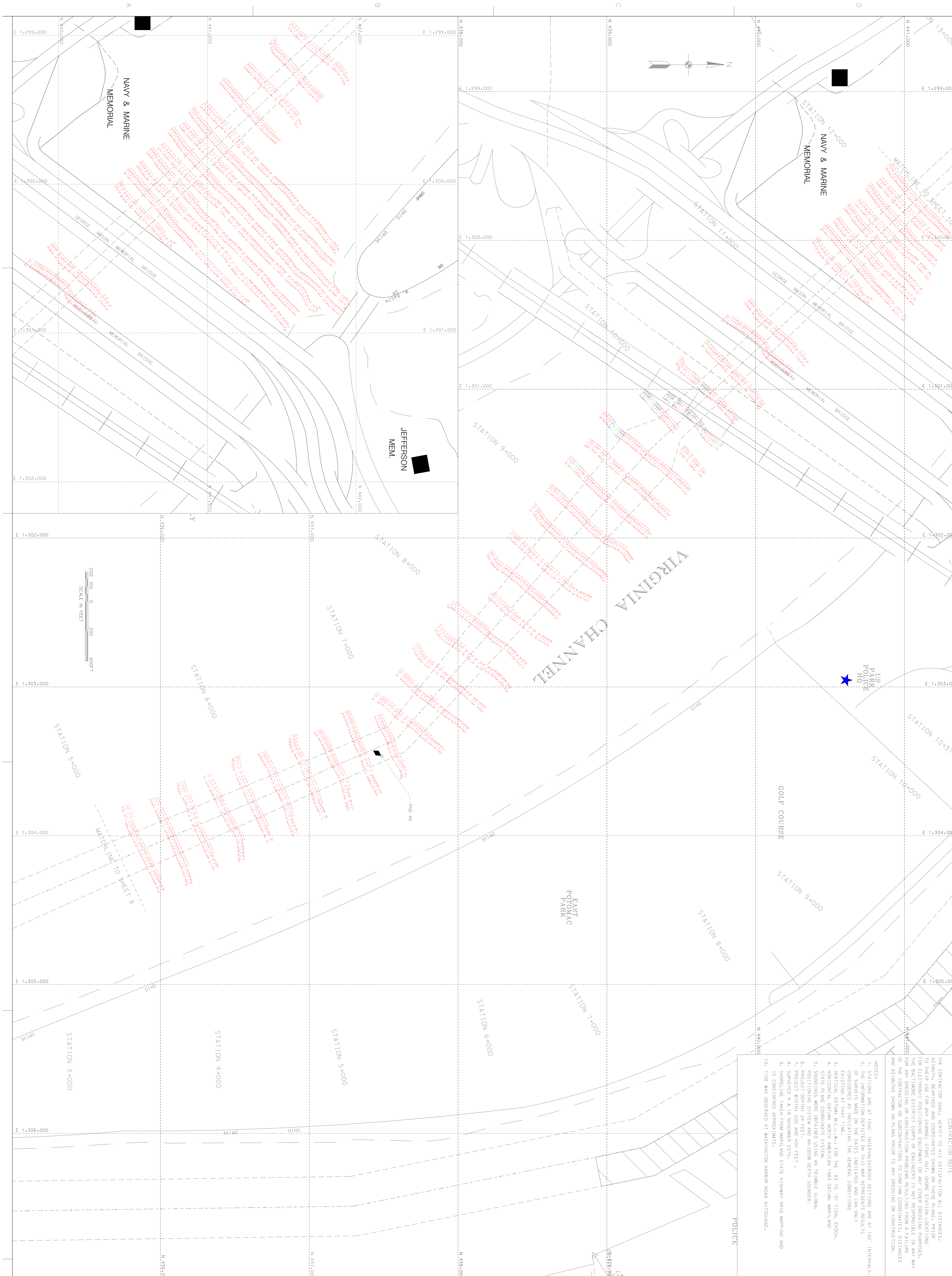
Submitted by:

Chief, Nav. Branch

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

WASHINGTON, D.C.
CONDITION SURVEY
POTOMAC RIVER - VIRGINIA CHANNEL
STATIONS 0+900 TO 5+000

Sheet reference number:
V-108
Sheet 8 of 11



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7. PROJECT WIDTH: 200 AND 400 FEET .
8. SURVEYED 9 & 18 NOVEMBER 2015.
9. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY GRID MAPPING AND IS CONSIDERED APPROXIMATE.
10. TIDE WAS OBSERVED AT WASHINGTON HARBOR NOAA AUTOGUAGE.

Sheet reference number: V-109
Sheet 9 of 11

WASHINGTON, D.C.

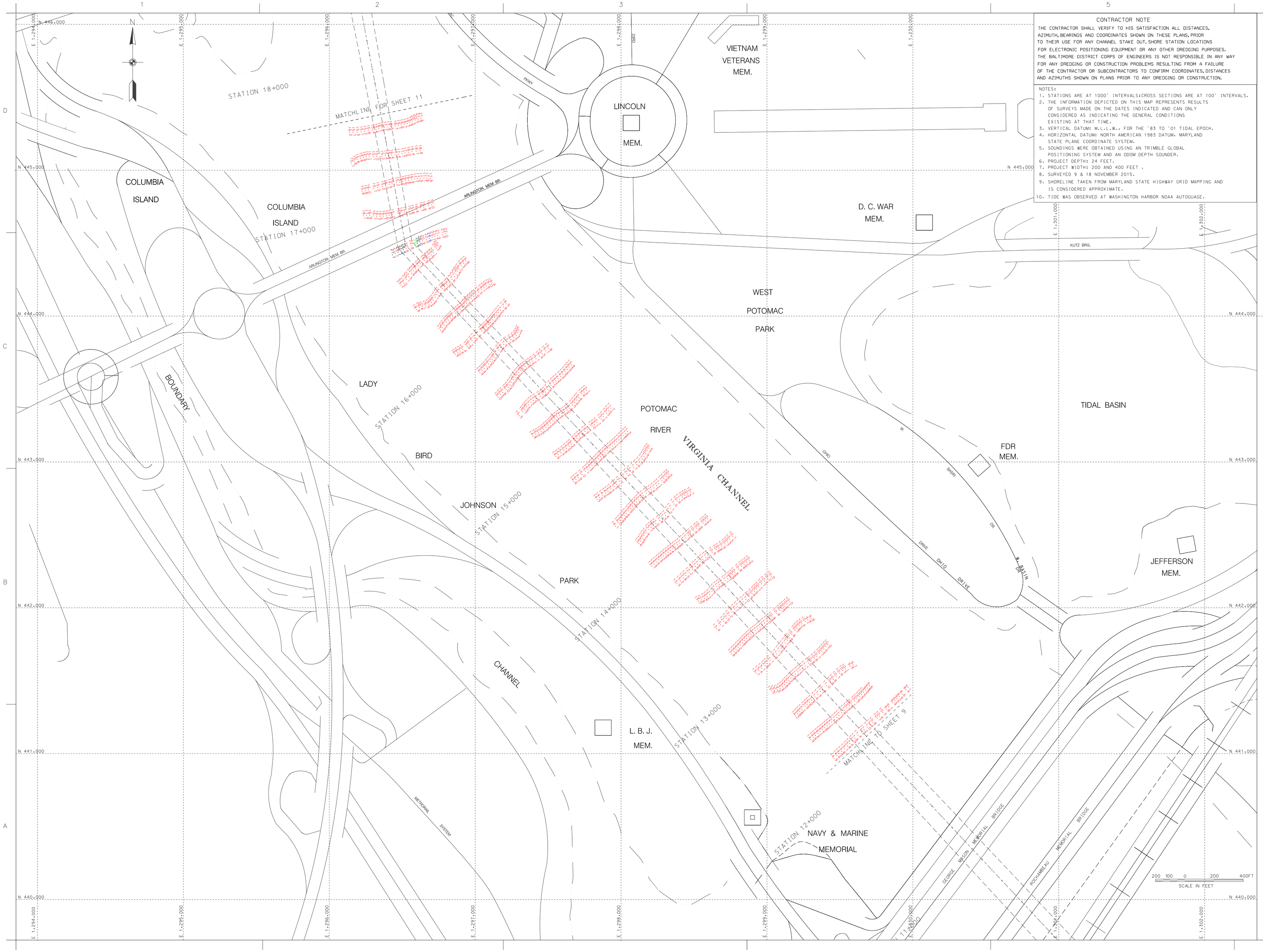
CONDITION SURVEY
POTOMAC RIVER - VIRGINIA CHANNEL
STATIONS 5+100 TO 12+100

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:		Date: NOV. '15 / Rev.
Dwn by: JAH	Ckd by: SMG	Design file no. FILE:B-32 MAP:16-011
Reviewed by: SMG		Drawing code:
Submitted by: Chief, Nav. Branch		File name:MD_101_101_20151118 Plot date: Plot scale:

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

US Army Corps of Engineers
Baltimore District



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.

NOTES:

1. STATIONS ARE AT 1000' INTERVALS;CROSS SECTIONS ARE AT 100' INTERVALS.
2. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY 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. SOUNDINGS WERE OBTAINED USING AN TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 24 FEET.
7. PROJECT WIDTH: 200 AND 400 FEET .
8. SURVEYED 9 & 18 NOVEMBER 2015.
9. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY GRID MAPPING AND IS CONSIDERED APPROXIMATE.
10. TIDE WAS OBSERVED AT WASHINGTON HARBOR NOAA AUTOGUAGE.

US Army Corps of Engineers
Baltimore District

Mark	Date	Appr.	Description

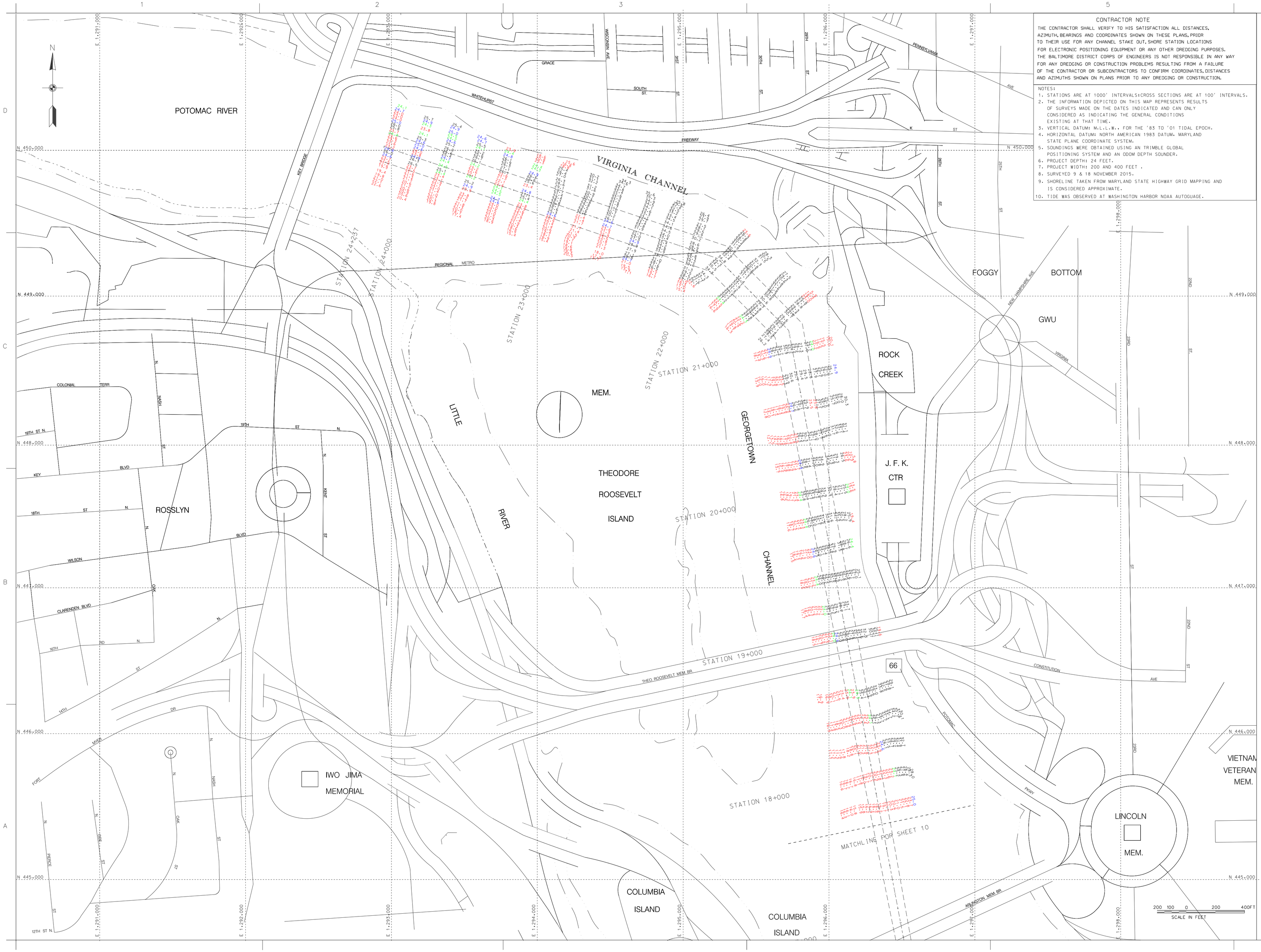
Date	Description	Appr.

Designed by:
Dwn by: J.M.
Ckd by: CMD
Reviewed by: SJMG
Submitted by: Chief, Nav. Branch
Rev. 15
Design file name: 2015-11-13
Drawing code:
File name: BC-DC_2015118
Plot date:
Plot scale:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

WASHINGTON, D.C.
CONDITION SURVEY
POTOMAC RIVER - VIRGINIA CHANNEL
STATIONS 12+200 TO 17+600

Sheet reference number:
V-110
Sheet 10 of 11



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10. TIDE WAS OBSERVED AT WASHINGTON HARBOR NOAA AUTOGUAGE.

US Army Corps of Engineers
Baltimore District

Mark	Date	Appr.	Description

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: LJM
Ckd by: CMD
Reviewed by: SJMS
Submitted by: Chief, Nav. Branch

Date: 10/2016
Scale: 1:5
Rev.
Design file name: 15-700-24-237-14-013
Drawing code
File name: MD_WL20161018
Plot date
Plot scale

WASHINGTON, D.C.
CONDITION SURVEY
POTOMAC RIVER - VIRGINIA CHANNEL
STATIONS 17+700 TO 24+237

Sheet reference number:
V-111
Sheet 11 of 11