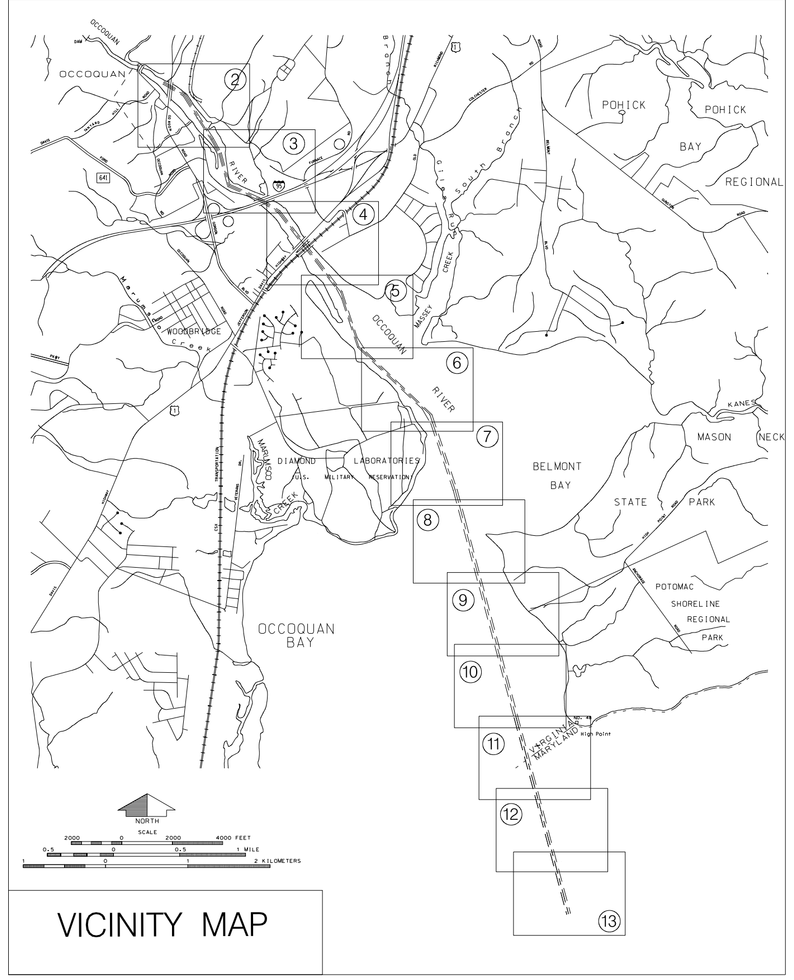
OCCOQUAN RIVER

CONDITION SURVEY

PRINCE WILLIAM AND FAIRFAX COUNTIES, VIRGINIA

CHARLES COUNTY, MARYLAND

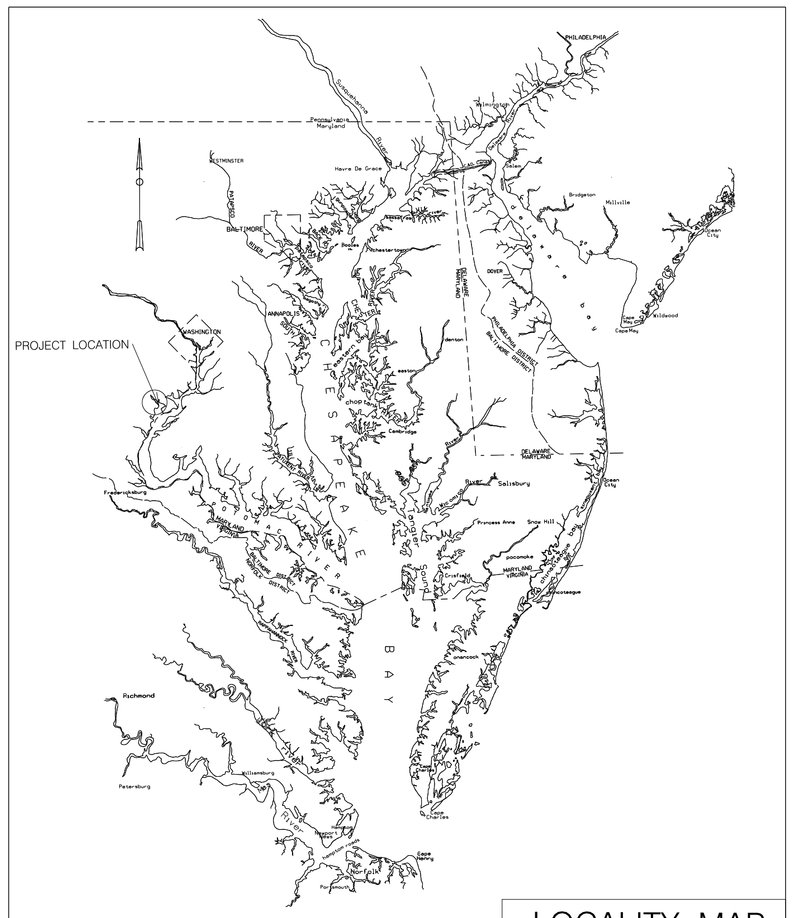


VICINITY MAP

INDEX OF DRAWINGS

SHEET NO.	TITLE	FILE & MAP #
1	COVER SHEET	FILE: B–75 MAP: 13–001
2	OCCOQUAN RIVER STA. 0+000 TO 3+000	FILE: B–75 MAP: 13–002
3	OCCOQUAN RIVER STA. 3+100 TO 6+500	FILE: B–75 MAP: 13–003
4	OCCOQUAN RIVER STA. 6+600 TO 10+200	FILE: B–75 MAP: 13–004
5	OCCOQUAN RIVER STA. 10+300 TO 13+400	FILE: B–75 MAP: 13–005
6	OCCOQUAN RIVER STA. 13+500 TO 17+200	FILE: B–75 MAP: 13–006
7	OCCOQUAN RIVER STA. 17+300 TO 20+200	FILE: B–75 MAP: 13–007
8	OCCOQUAN RIVER STA. 20+300 TO 23+200	FILE: B–75 MAP: 13–008
9	OCCOQUAN RIVER STA. 23+300 TO 26+000	FILE: B–75 MAP: 13–009
10	OCCOQUAN RIVER STA. 26+100 TO 28+800	FILE: B–75 MAP: 13–010
11	OCCOQUAN RIVER STA. 28+900 TO 31+800	FILE: B–75 MAP: 13–011
12	OCCOQUAN RIVER STA. 31+900 TO 34+400	FILE: B–75 MAP: 13–012
13	OCCOQUAN RIVER STA. 34+500 TO 36+481	FILE: B–75 MAP: 13–013

NOTE: 10 JANUARY 2002 – MODIFICATION TO DEEPEN THE PROJECT DEPTH TO 9', PER SEC. 505, DEFENSE APPROPRIATION ACT OF 2002.



LOCALITY MAP

NOT TO SCALE

US Army Corps of Engineers Baltimore District

Mark	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: Date by: JULY '13
Drawn by: Date by: 13/01
Reviewed by: SMC
Submitted by: Chief, Nav. Branch
Date: JULY '13
Design file no. B075-13-001
Drawing name:
File name:P:\01_CD\OTHER\2003
Plot date:
Plot scale:
Rev.

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
COVER SHEET

Sheet reference number:
V-101
Sheet 1 of 13

OCCOQUAN RIVER CHANNEL GEOMETRY

LEFT GEOMETRY		CENTERLINE GEOMETRY			RIGHT GEOMETRY	
370895.9646	1238368.0354	0+000.00	370852.8000	1238342.8000	370809.6355	1238317.5647
370435.6740	1239155.3529	0+899.93	370398.5999	1239119.7000	370361.5258	1239084.0470
368746.6112	1240233.5102	2+890.08	368721.0710	1240190.4949	369528.5283	1239615.7633
368195.9310	1240536.8558	3+511.24	368176.9998	1240490.2000	368695.5508	1240147.4797
366984.3706	1240868.8114	4+785.29	366948.2367	1240826.8689	368158.0687	1240445.5441
366492.1947	1241983.0419	6+023.29	366448.0143	1241959.3158	366912.1028	1240784.9265
365988.0247	1242770.1160	6+945.06	365950.8260	1242735.4906	366403.8339	1241935.5897
364516.8549	1243868.5283	8+772.63	364486.3985	1243828.8689	365913.6272	1242700.8653
362905.3303	1245138.0267	9+792.72	363885.8430	1244461.0855	363041.1285	1244906.5197
361910.1642	1245466.9759	10+812.81	362885.2879	1245093.3020	362644.3593	1245119.9814
361155.8740	1245715.3061	12+995.31	360812.2436	1245775.7914	360784.7276	1245732.2163
360610.3126	1246059.5808	14+862.77	359522.3276	1247126.1783	358299.8659	1248333.5560
358222.8790	1248958.9256	16+730.24	358232.4116	1248476.5592	358400.1849	1248228.5346
355376.0927	1249519.1098	19+767.61	355354.3378	1249447.2961	357881.7592	1248515.6785
354198.7327	1249836.0913	20+576.05	354766.8174	1249605.4749	354159.8619	1249691.2152
339227.3173	1253839.0963	28+733.12	346693.6209	1251765.1475	346674.2169	1251692.7010
		36+481.76	339207.9447	1253766.6416	339188.5719	1253694.1867

TIDAL BENCH MARK

TIDAL BENCH MARK IS BENCH MARK MASON.
BENCHMARK IS A STANDARD C.O.E. BRONZE DISK STAMPED "MASON".
FROM 95 S TAKE EXIT 160 ONTO GORDON BLVD/123 N. TURN RIGHT AT DEVILS REACH RD. LEFT ONTO SWAN POINT RD. POINT IS LOCATED IN HOFFMASTER MARINA SOUTH EAST OF THE BOAT REPAIR/DISPLAY BUILDING. 19.6' SOUTH OF THE WEST EDGE OF THE BOAT RAMP. 5.5' SOUTH EAST OF THE GRILL.14.3' NORTH OF THE CONCRETE PATH TO RESTROOMS AND 2.4' WEST OF A WOODEN PLATFORM.

BENCH MARK ELEV.IS 6.21' ABOVE MLLW FOR THE '83-'01 TIDAL EPOCH.

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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

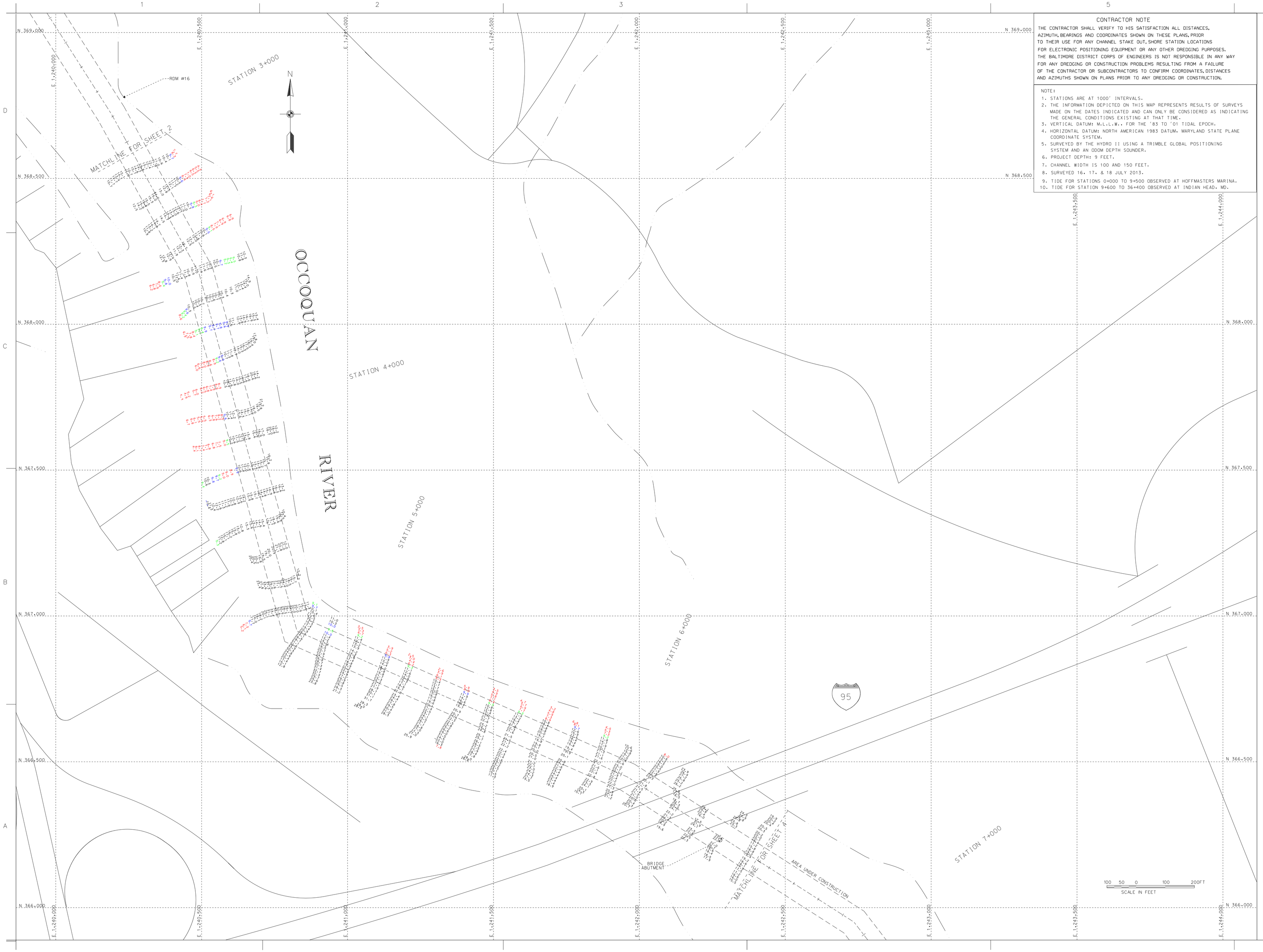
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: DBG
Cked by: DBG
Reviewed by: SMG
Submitted by:
Chief, Nav. Branch
Date: APR 1, 13
Rev.
Design file name: 01-13-002 V-102.dgn
Drawing code: S401_DCG2TAG_2013
Plot date:
Plot scale:

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OF OCCOQUAN RIVER
STATION 0+000 TO 3+000

Sheet reference number:
V-102
Sheet 2 of 13



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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

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 by: Chd by: SMC
Reviewed by: SMC
Submitted by:
Chief, Nav. Branch

Date: Dec. '13
Rev.
Design file no: 01-07-13-SMP13-005
Drawing scale: 1"=50'
Sheet size: 22x34
Plot date:
Plot scale:

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 3+000 TO 6+600

Sheet reference number:
V-103
Sheet 3 of 13

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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16. 17. & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD. MD.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

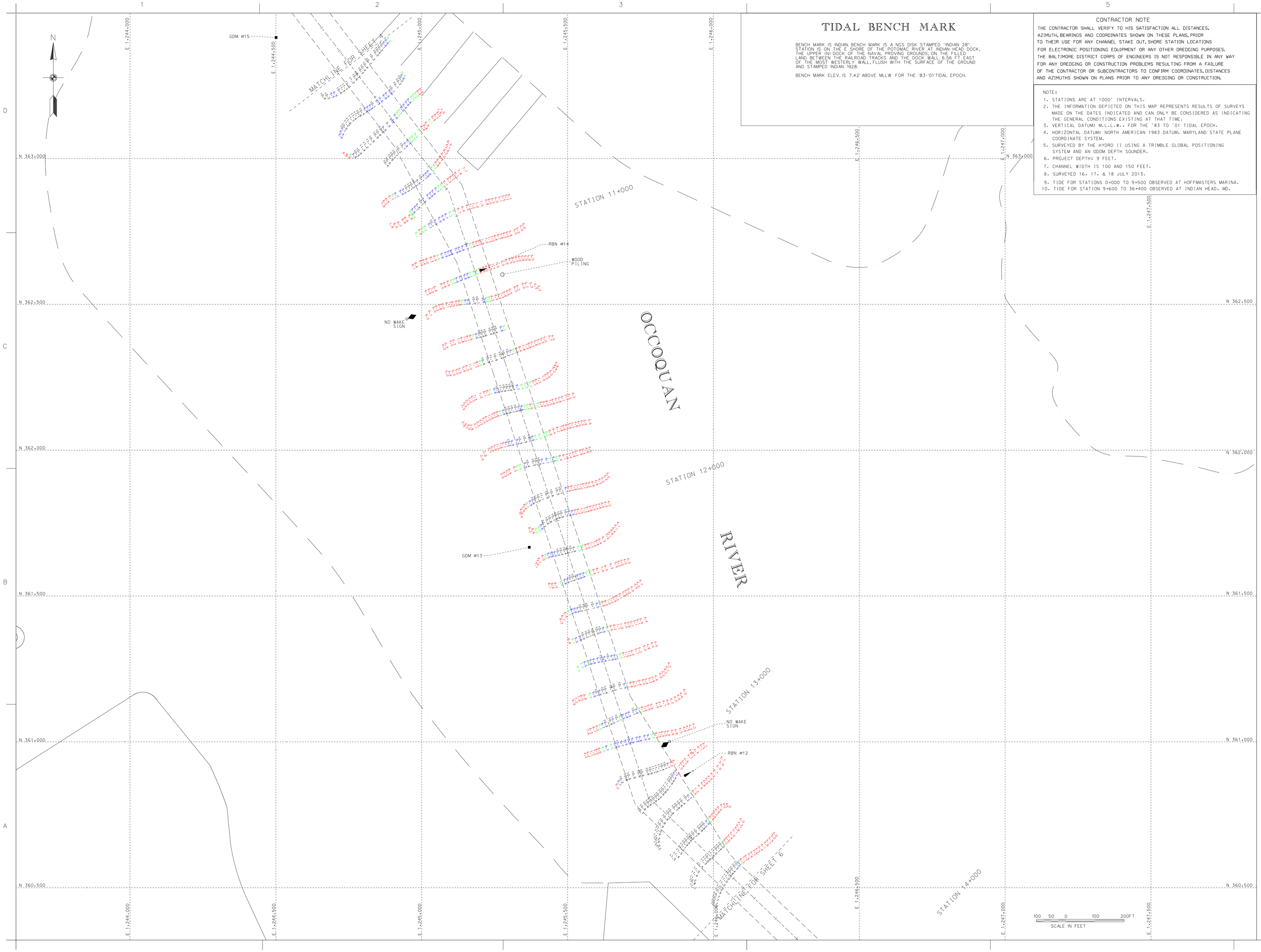
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: JBC
Cvd by: JBC
Reviewed by: SMG
Submitted by: Chief, Hyd. Branch
Date: 01 Oct '13
Design file no. H:\Hydro\Maps\13-004
Drawing code: SHOL-15027NA0170
File name:
Plot date:
Plot time:
Rev.

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 6+600 TO 10+300

Sheet reference number:
V-104
Sheet 4 of 13



TIDAL BENCH MARK

BENCH MARK IS INDIAN BENCH MARK IS A NGS DISK STAMPED "INDIAN 28". STATION IS ON THE E SHORE OF THE POTOMAC RIVER AT INDIAN HEAD DOCK. THE UPPER (N) DOCK OF THE NAVAL PROVING GROUNDS, ON THE FILLED LAND BETWEEN THE RAILROAD TRACKS AND THE DOCK WALL, 6.56 FT EAST OF THE MOST WESTERLY WALL, FLUSH WITH THE SURFACE OF THE GROUND AND STAMPED INDIAN 1928.

BENCH MARK ELEV. IS 7.42' ABOVE MLLW FOR THE '83-'01 TIDAL EPOCH.

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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16. 17. & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD. MD.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

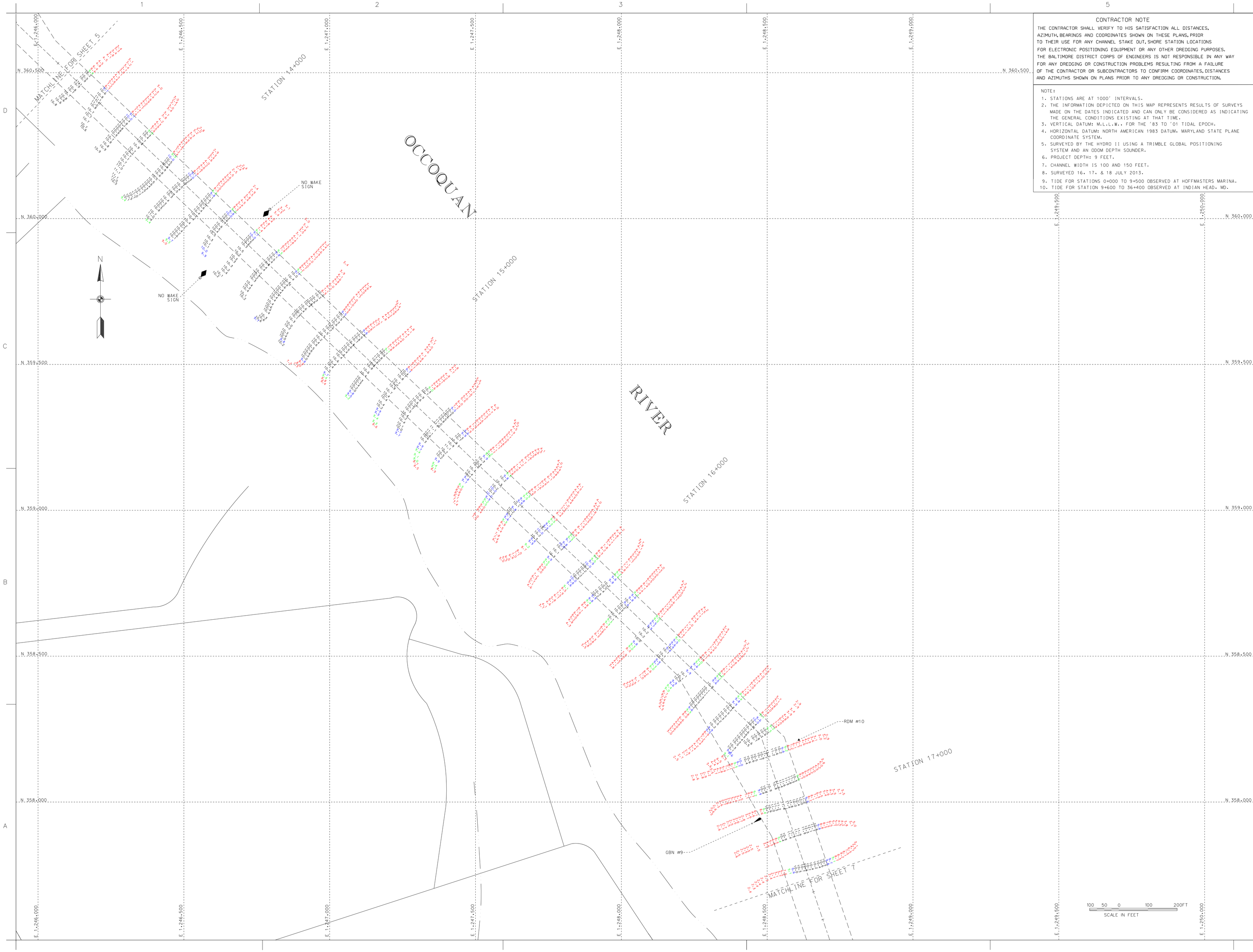
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: N/A
Dwn by: JAW
Ckd by: SMG
Reviewed by: SMG
Submitted by: Chief, Hyd. Branch
Date: 04/04/2013
Scale: 1:3
Design file no. (Hydro Wizard) 1:500
Drawing code: SHOL-130273A.DGN
File name:
Plot date:
Plot time:
Rev.

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 10+300 TO 13+500

Sheet reference number:
V-105
Sheet 5 of 13



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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

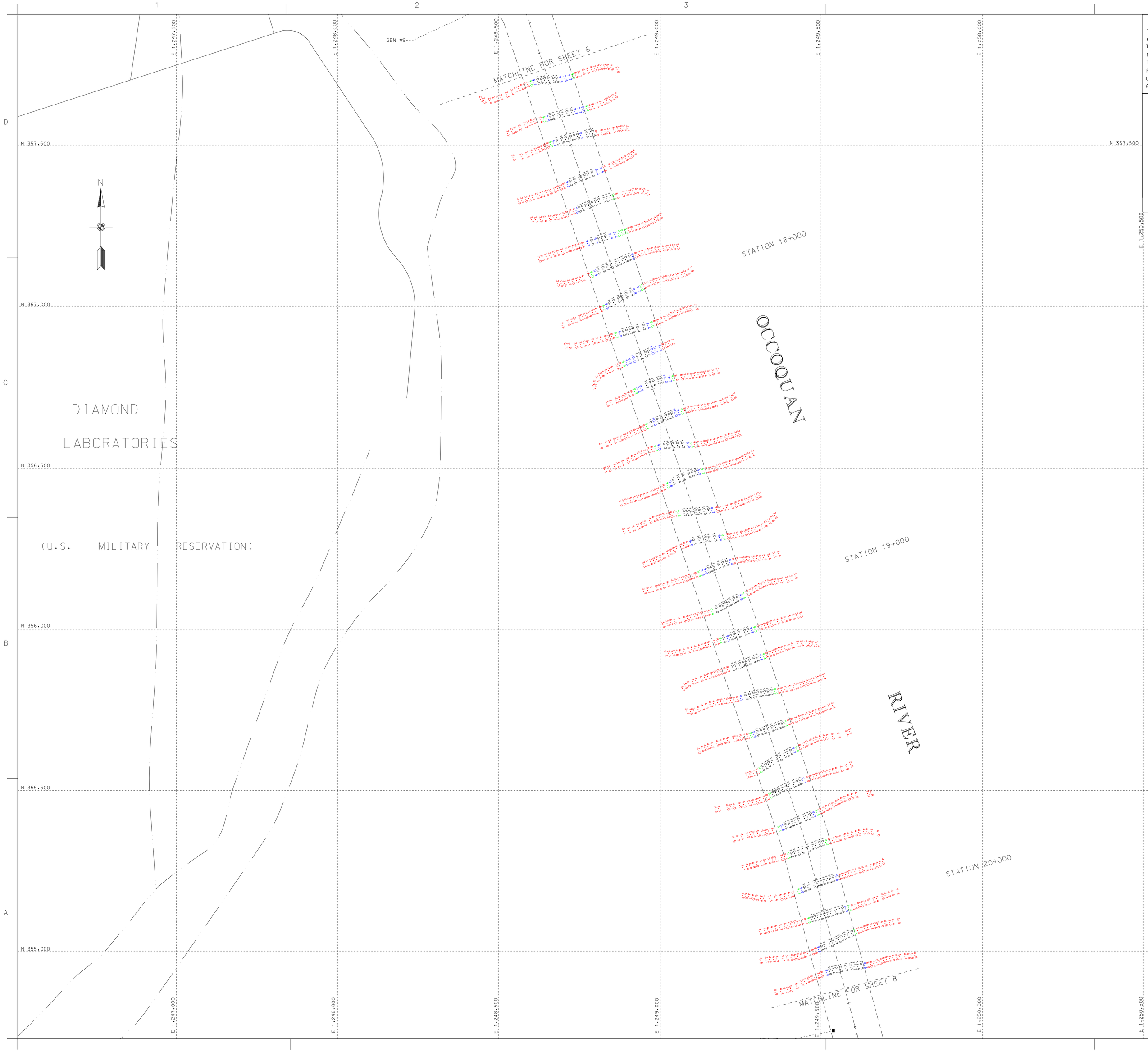
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: CAD
Ckd by: DBC
Reviewed by: SMG
Submitted by:
Chief, Nav. Branch
Date: JULY 13
Design file name: 13-106 V-106.dgn
Drawing code: SHEL_SCI27AA.2013
Plot date:
Plot scale:
Rev.

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 13+500 TO 17+300

Sheet reference number:
V-106
Sheet 6 of 13



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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

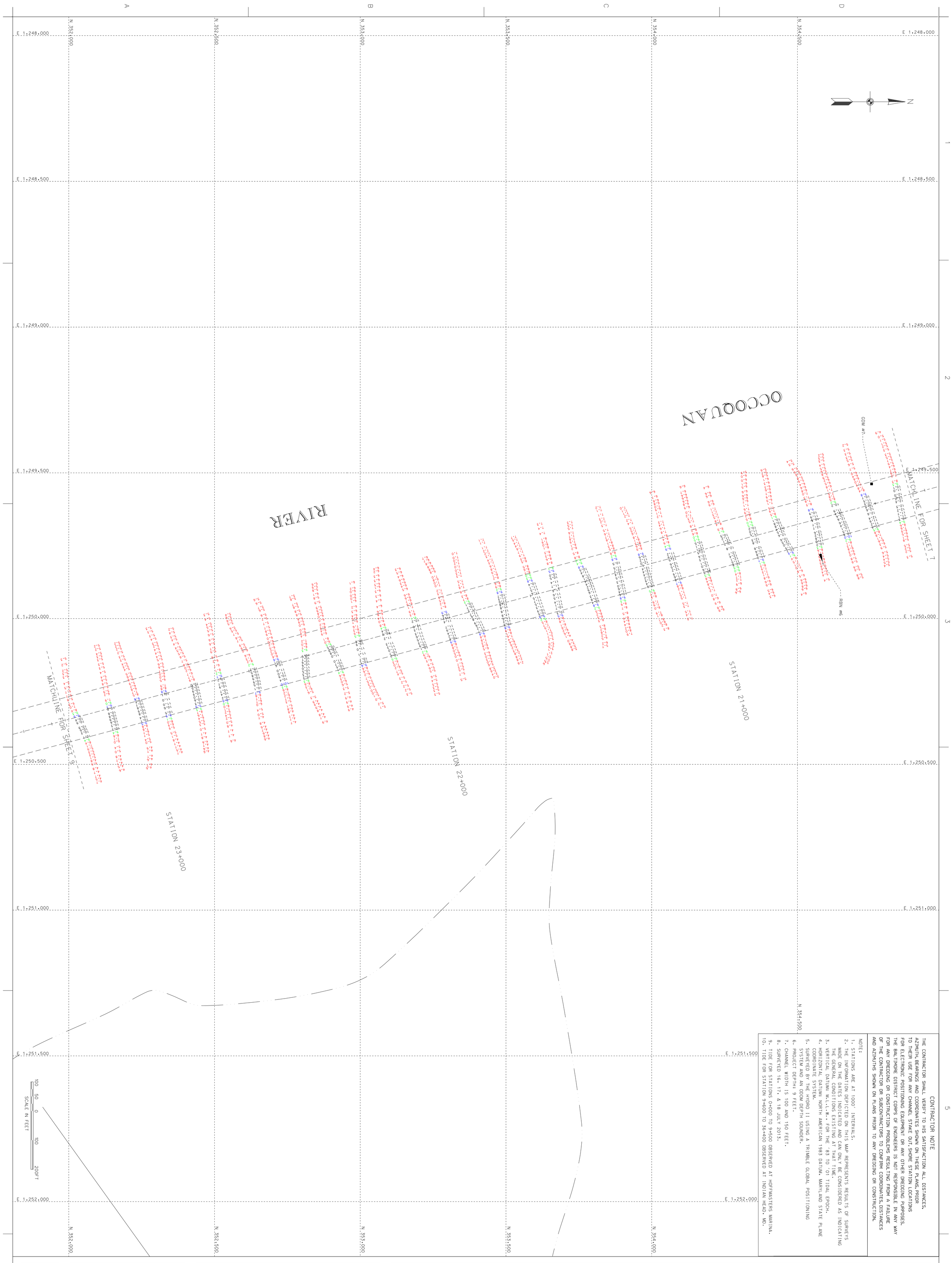
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: JMC
Cvd by: JMC
Reviewed by: SMG
Submitted by: Chief, Nav. Branch
Date: July '13
Design file no: 01-Potomac-13-007
Drawing code: SHOI-UCCFAA2013
File name:
Plot date:
Plot scale:
Rev.

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 17+300 TO 20+300

Sheet reference number:
V-107
Sheet 7 of 13



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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

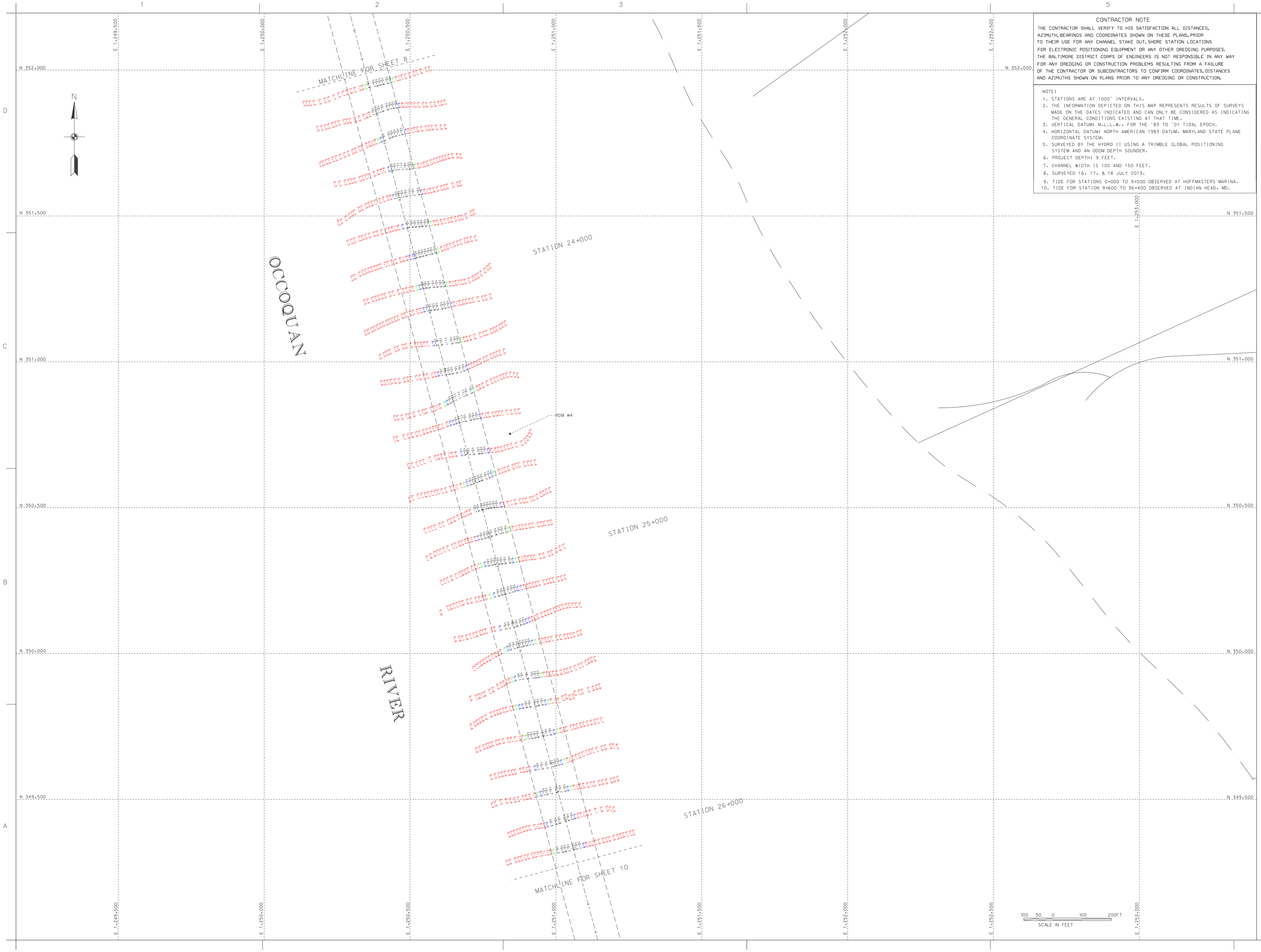
Designed by:		Date: JULY '13	Rev.
Dwn by: JAH	Ckd by: SMG	Design file no. FILE:B-75 MAP:13-008	
Reviewed by: SMG		Drawing code: SH01_13C127JUL2013	
Submitted by: Chief, Nav. Branch		File name: Plot date: Plot scale:	

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 20+300 TO 23+500

Sheet reference number:
V-108
Sheet 8 of 13



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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

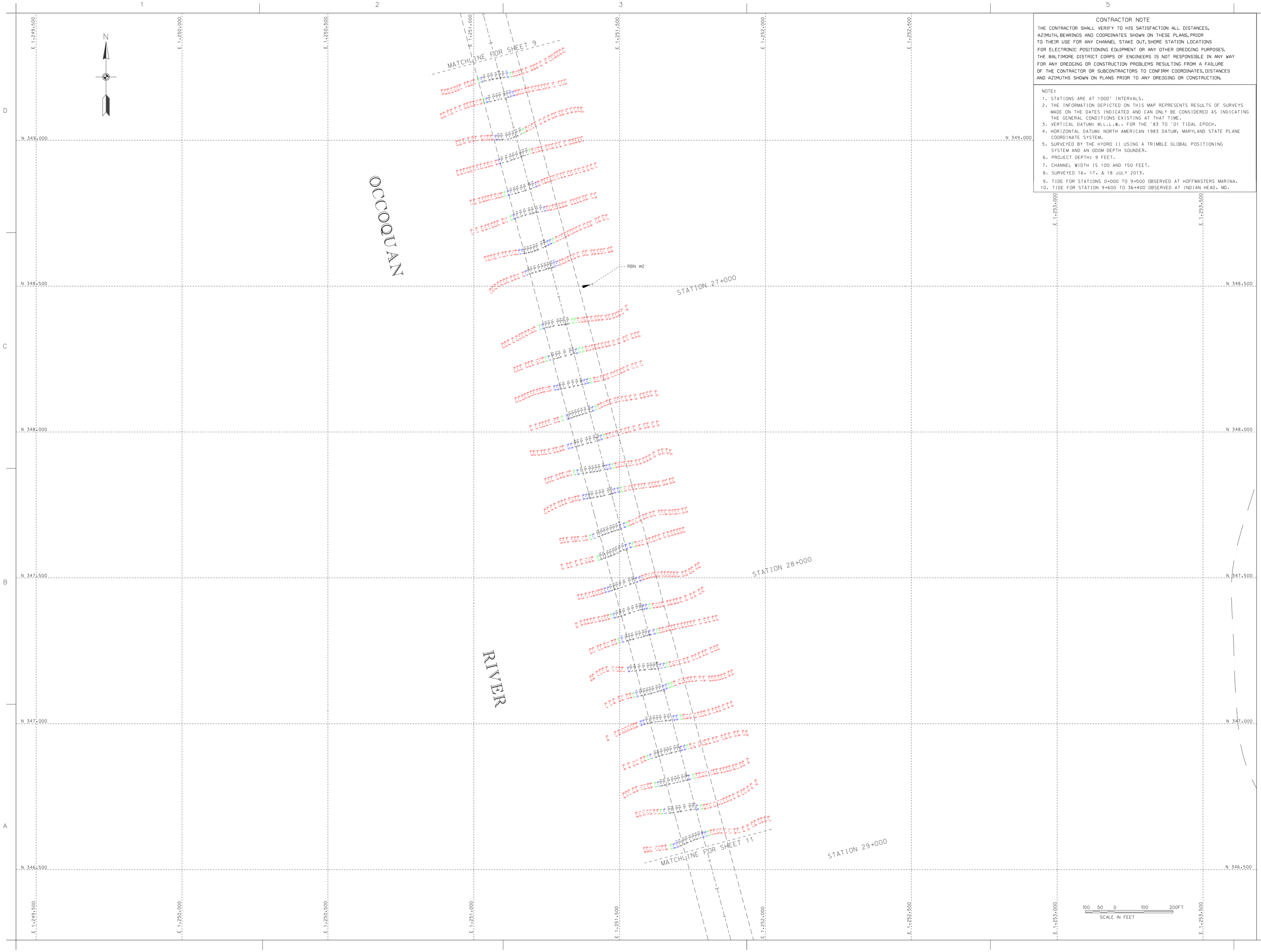
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: CMC
Ckd by: SMC
Reviewed by: SMC
Submitted by:
Chief, Nav. Branch
Date: APR. 7, 13
Rev.
Design file name: F11F13-V-109
Drawing code: SHEL.OCCEP.AAL2013
Plot date:
Plot scale:

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 23+300 TO 26+100

Sheet reference number:
V-109
Sheet 9 of 13



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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

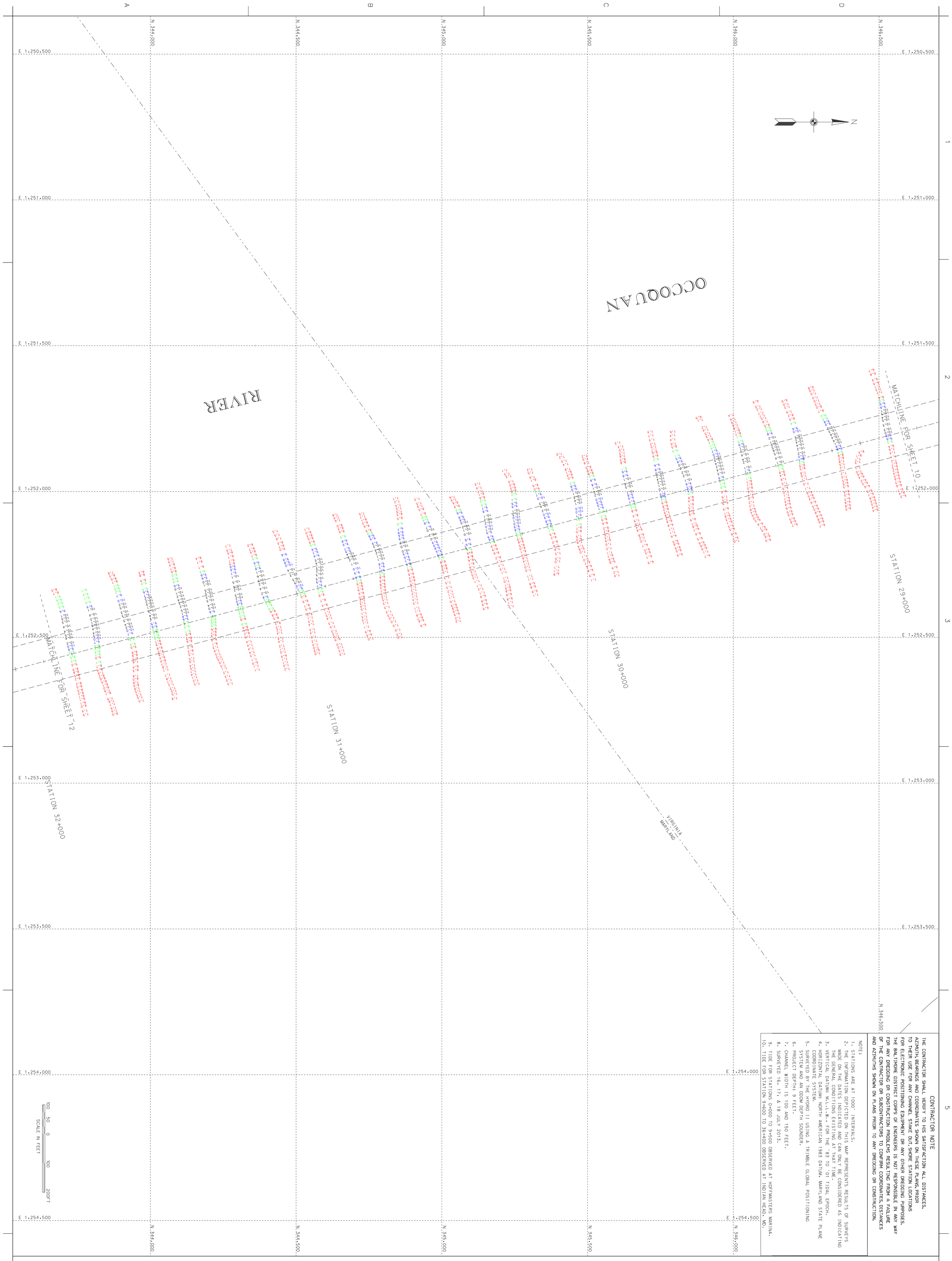
Designed by:
Dwn by: JLW
Cvd by: DBC
Reviewed by: SMG
Submitted by:
Chief, Nav. Branch

Date: OCT '13
Rev.
Design file name: 13-010 (13-010)
Drawing code: SHEL_UCI27AA.DGN
Plot date:
Plot scale:

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 26+100 TO 29+000

Sheet reference number:
V-110
Sheet 10 of 13



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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

US Army Corps of Engineers
Baltimore District

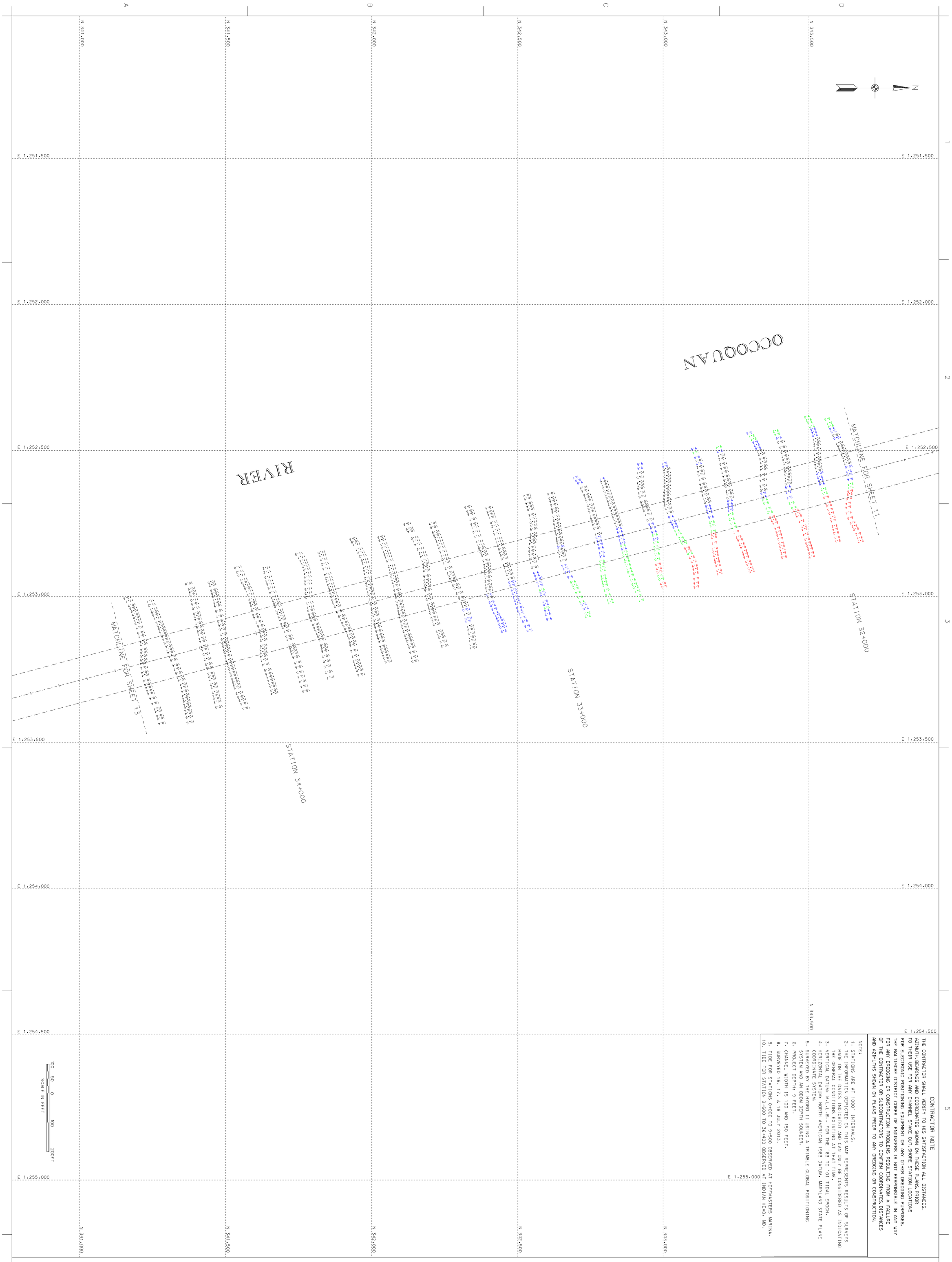
Designed by:		Date: JULY '13	Rev.
Dwn by: JAH	Ckd by: SMG	Design file no. FILE:B-75 MAP:13-011	
Reviewed by: SMG		Drawing code: SH01_13C127JUL2013	
Submitted by: Chief, Nav. Branch		File name: Plot date: Plot scale:	

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 28+900 TO 31+900

Sheet reference number:
V-111
Sheet 11 of 13



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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

Sheet reference number: V-112
Sheet 12 of 13

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 31+900 TO 34+500

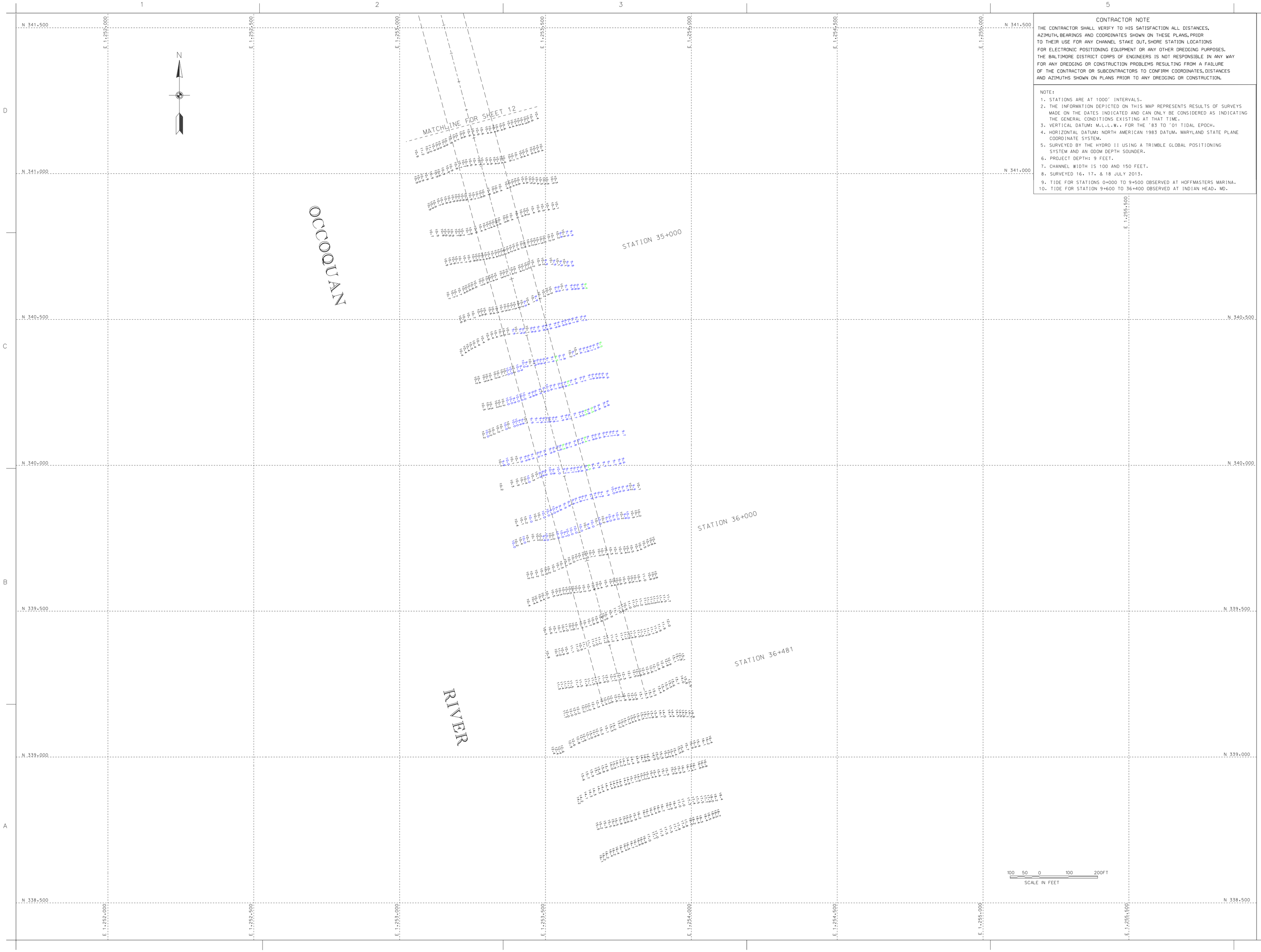
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:		Date: JULY '13
Dwn by: JAH	Ckd by: SMG	Design file no. FILE:B-75 MAP:13-012
Reviewed by: SMG		Drawing code: SH01_13C127JUL2013
Submitted by: Chief, Nav. Branch		File name: Plot date: Plot scale:

Rev.

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.

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 HYDRO II USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
6. PROJECT DEPTH: 9 FEET.
7. CHANNEL WIDTH IS 100 AND 150 FEET.
8. SURVEYED 16, 17, & 18 JULY 2013.
9. TIDE FOR STATIONS 0+000 TO 9+500 OBSERVED AT HOFFMASTERS MARINA.
10. TIDE FOR STATION 9+600 TO 36+400 OBSERVED AT INDIAN HEAD, MD.

US Army Corps of Engineers
Baltimore District

Mark	Date	Appr.	Description

Mark	Date	Appr.	Description

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: SBC
Ckd by: SBC
Reviewed by: SMC
Submitted by:
Chief, Nav. Branch
Date: Oct. '13
Design file no. 01-01-01_MAP13-03
Drawing code: 34D1L1SG27AA2003
File name:
Plot date:
Plot scale:
Rev.

FAIRFAX AND PRINCE WILLIAM COUNTIES
VIRGINIA

CONDITION SURVEY
OCCOQUAN RIVER
STATION 34+500 TO 36+481.43

Sheet reference number:
V-113
Sheet 13 of 13