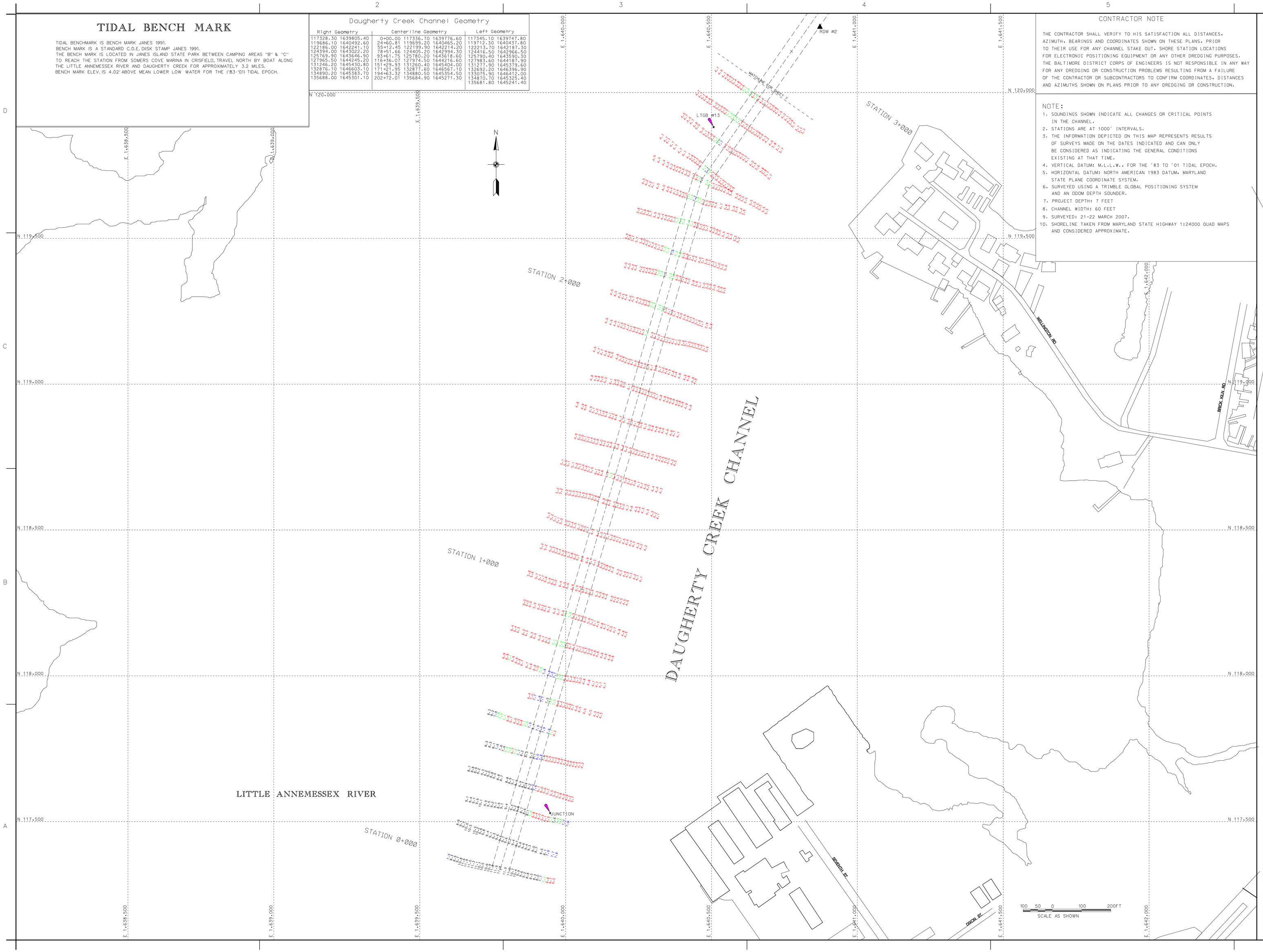
TIDAL BENCH MARK

TIDAL BENCHMARK IS BENCH MARK JANES 1991.
BENCH MARK IS A STANDARD C.O.E. DISK STAMP JANES 1991.
THE BENCH MARK IS LOCATED IN JANES ISLAND STATE PARK BETWEEN CAMPING AREAS "B" & "C" TO REACH THE STATION FROM SOMERS COVE MARINA IN CRISFIELD, TRAVEL NORTH BY BOAT ALONG THE LITTLE ANNEMESSEX RIVER AND DAUGHERTY CREEK FOR APPROXIMATELY 3.2 MILES.
BENCH MARK ELEV. IS 4.02' ABOVE MEAN LOWER LOW WATER FOR THE ('83-'01) TIDAL EPOCH.

Daugherty Creek Channel Geometry

Right Geometry		Centerline Geometry			Left Geometry	
117328.30	1639805.40	0+00.00	117336.70	1639776.60	117345.10	1639747.80
119686.10	1640492.60	24+60.81	119699.20	1640465.20	119712.30	1640437.80
122186.00	1642241.10	55+12.45	122199.90	1642214.20	122213.70	1642187.30
124394.00	1643022.20	78+51.66	124405.20	1642994.30	124416.50	1642966.50
125769.90	1643646.90	93+61.75	125780.20	1643618.60	125790.40	1643590.30
127965.50	1644245.20	116+36.07	127974.50	1644216.60	127983.60	1644187.90
131246.20	1645430.80	151+29.93	131260.40	1645404.00	131277.90	1645379.60
132876.10	1646603.10	171+21.95	132877.60	1646567.10	132692.20	1646396.90
134890.20	1645383.70	194+63.32	134880.50	1645354.50	133075.90	1646412.00
135688.00	1645301.10	202+72.01	135684.90	1645271.30	134870.70	1645325.40
					135681.80	1645241.40



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. SOUNDINGS SHOWN INDICATE ALL CHANGES OR CRITICAL POINTS IN THE CHANNEL.
2. STATIONS ARE AT 1000' INTERVALS.
3. 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.
4. VERTICAL DATUM: M.L.L.W.. FOR THE '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM. MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
7. PROJECT DEPTH: 7 FEET
8. CHANNEL WIDTH: 60 FEET
9. SURVEYED: 21-22 MARCH 2007.
10. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY 1:24000 QUAD MAPS AND CONSIDERED APPROXIMATE.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

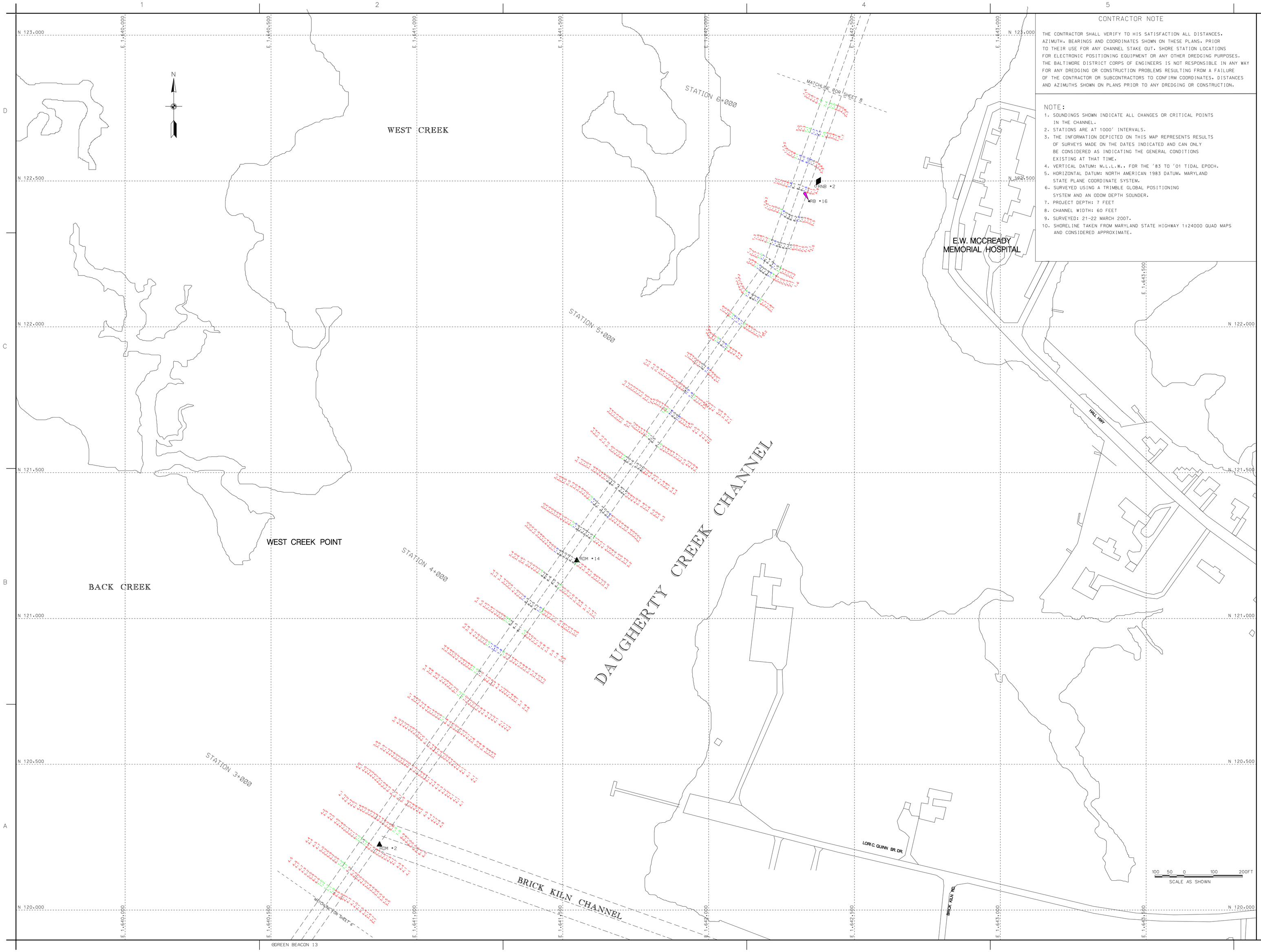
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: SMG
Ckd by:
Reviewed by:
Submitted by:
Chief, Nav. Branch
Date:
Rev.
Design file no. FILE: 34 MAP: 7-06
Drawing code:
File name: SH06C048
Plot date:
Plot scale:

SOMERSET COUNTY
MARYLAND

CONDITION SURVEY
DAUGHERTY CREEK
STATION 0+000 TO 2+800

Sheet reference number:
V-106
Sheet 6 of 14



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. SOUNDINGS SHOWN INDICATE ALL CHANGES OR CRITICAL POINTS IN THE CHANNEL.
2. STATIONS ARE AT 1000' INTERVALS.
3. 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.
4. VERTICAL DATUM: M.L.L.W., FOR THE '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
7. PROJECT DEPTH: 7 FEET
8. CHANNEL WIDTH: 60 FEET
9. SURVEYED: 21-22 MARCH 2007.
10. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY 1:24000 QUAD MAPS AND CONSIDERED APPROXIMATE.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

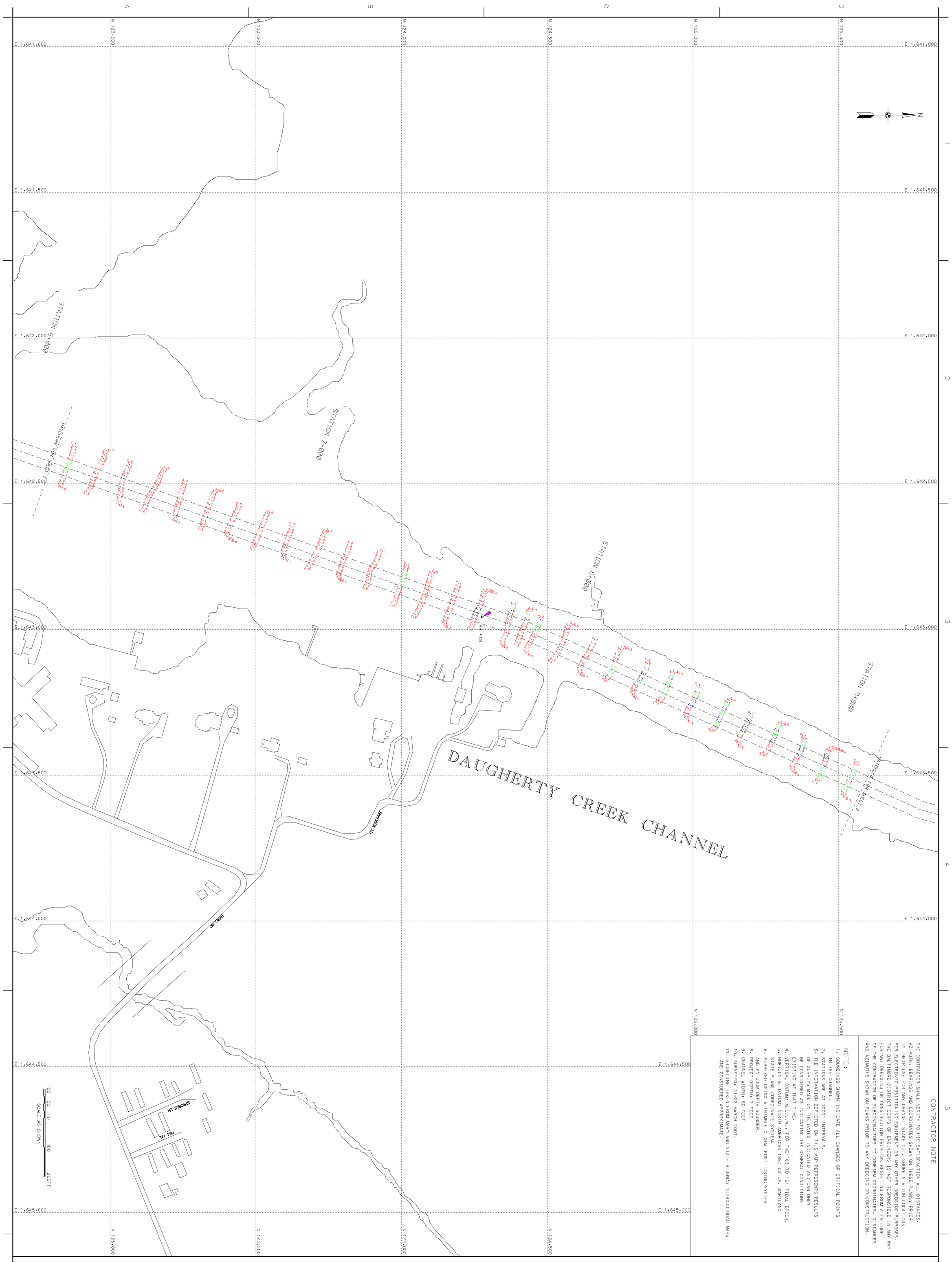
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: | Dwn by: SMG | Ckd by: | Reviewed by: | Submitted by: | Chief, Nav. Branch
Date: | Rev. | Design file no. FILE: 34 MAP: 7-07 | Drawing code: | File name: SH07C048 | Plot date: | Plot scale:

SOMERSET COUNTY
MARYLAND

CONDITION SURVEY
DAUGHERTY CREEK
STATION 2+900 TO 6+100

Sheet reference number:
V-107
Sheet 7 of 14



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. SOUNDINGS SHOWN INDICATE ALL CHANGES OR CRITICAL POINTS IN THE CHANNEL.
2. STATIONS ARE AT 1000' INTERVALS.
3. 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.
4. VERTICAL DATUM: M.L.L.W., FOR THE '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
8. PROJECT DEPTH: 7 FEET
9. CHANNEL WIDTH: 60 FEET
10. SURVEYED: 21-22 MARCH 2007.
11. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY 1:24000 QUAD MAPS AND CONSIDERED APPROXIMATE.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

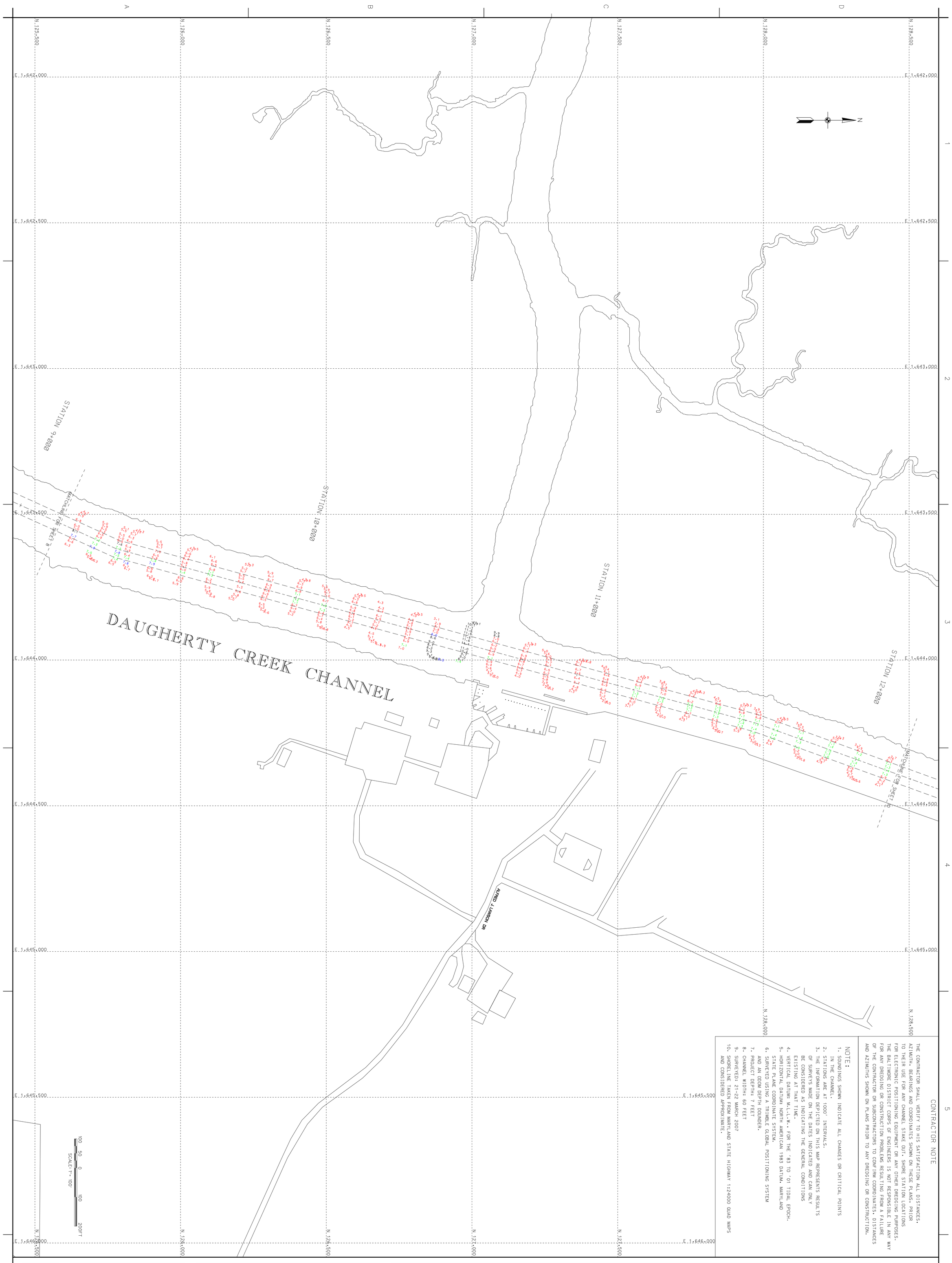
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:	Date:	Rev.
Dwn by: SMG / Ckd by:	Design file no. FILE: 34 MAP: 7-08	
Reviewed by:	Drawing code:	
Submitted by: Chief, Nav. Branch	File name: SH08C048MAR07 Plot date: Plot scale:	

SOMERSET COUNTY
MARYLAND

CONDITION SURVEY
DAUGHERTY CREEK
STATION 6+200 TO 9+100

Sheet reference number: V-108
Sheet 8 of 14



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. SOUNDINGS SHOWN INDICATE ALL CHANGES OR CRITICAL POINTS IN THE CHANNEL.
2. STATIONS ARE AT 1000' INTERVALS.
3. 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.
4. VERTICAL DATUM: M.L.L.W., FOR THE '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH DOUNDER.
7. PROJECT DEPTH: 7 FEET
8. CHANNEL WIDTH: 60 FEET
9. SURVEYED: 21-22 MARCH 2007
10. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY 1:24000 QUAD MAPS AND CONSIDERED APPROXIMATE.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

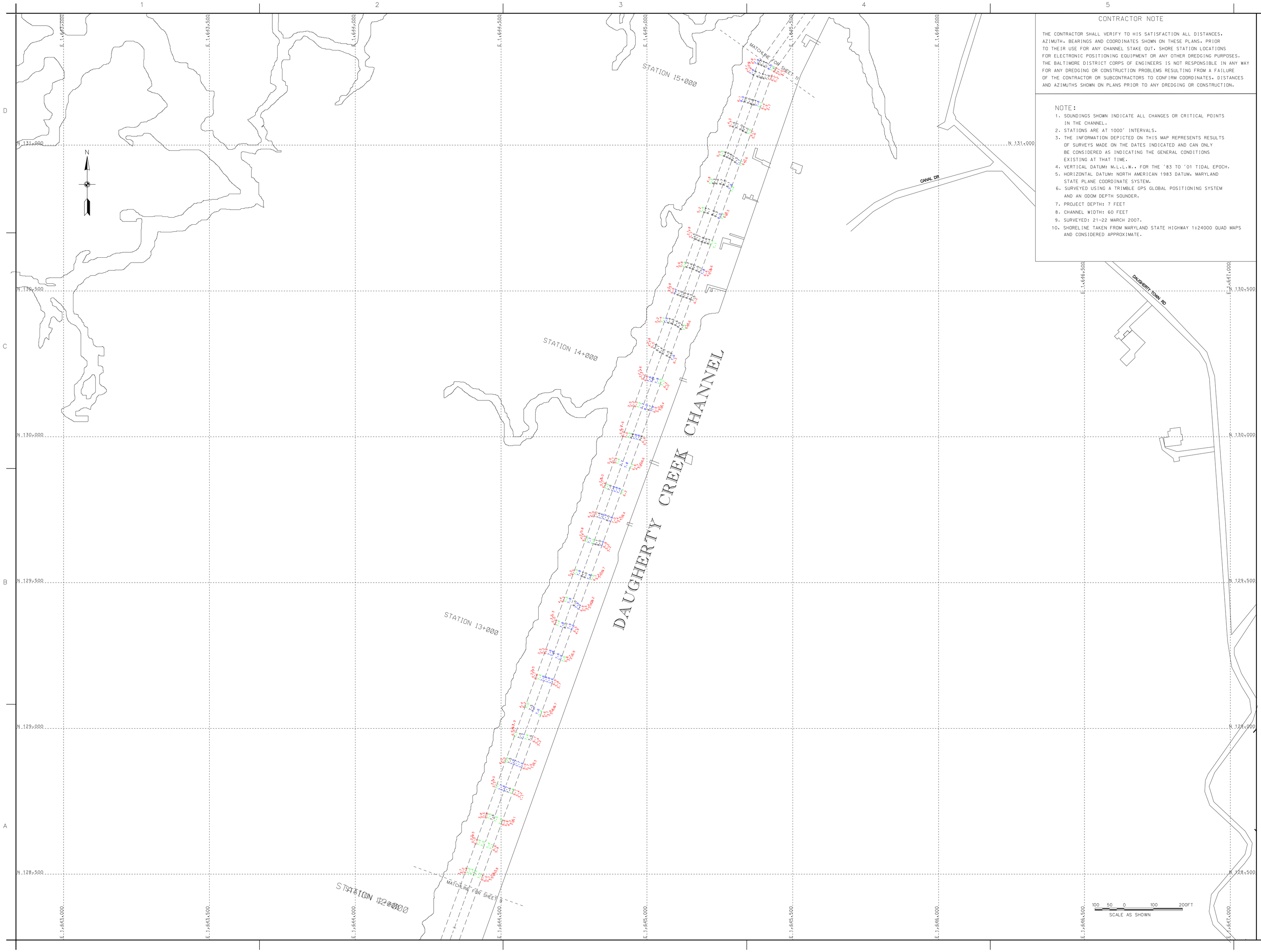
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:	Date:	Rev.
Dwn by: SMG / Ckd by:	Design file no. FILE: 34 MAP: 7-09	
Reviewed by:	Drawing code:	
Submitted by: Chief, Nav. Branch	File name: SH09C048MAR07 Plot date: Plot scale:	

SOMERSET COUNTY
MARYLAND

CONDITION SURVEY
DAUGHERTY CREEK
STATION 9+200 TO 12+100

Sheet reference number: V-109
Sheet 9 of 14



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. SOUNDINGS SHOWN INDICATE ALL CHANGES OR CRITICAL POINTS IN THE CHANNEL.
2. STATIONS ARE AT 1000' INTERVALS.
3. 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.
4. VERTICAL DATUM: M.L.L.W., FOR THE '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED USING A TRIMBLE GPS GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
7. PROJECT DEPTH: 7 FEET
8. CHANNEL WIDTH: 60 FEET
9. SURVEYED: 21-22 MARCH 2007.
10. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY 1:24000 QUAD MAPS AND CONSIDERED APPROXIMATE.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

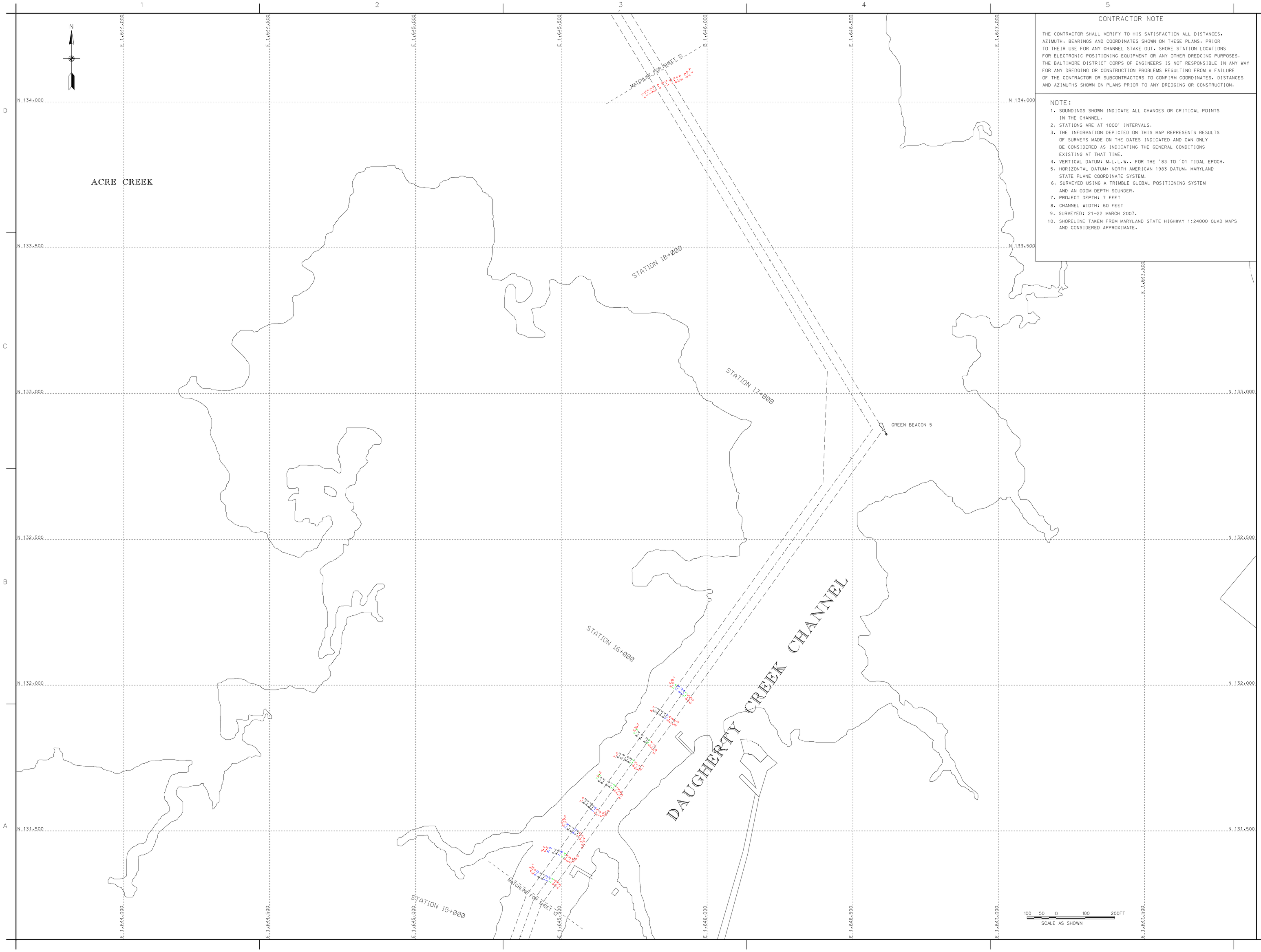
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: SMG
Ckd by:
Reviewed by:
Submitted by:
Chief, Nav. Branch
Date:
Rev.
Design file no. FILE: 34 MAP: 7-10
Drawing code:
File name: SH10C04BMAR07
Plot date:
Plot scale:

SOMERSET COUNTY
MARYLAND

CONDITION SURVEY
DAUGHERTY CREEK
STATION 12+200 TO 15+100

Sheet reference number:
V-110
Sheet 10 of 14



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. SOUNDINGS SHOWN INDICATE ALL CHANGES OR CRITICAL POINTS IN THE CHANNEL.
2. STATIONS ARE AT 1000' INTERVALS.
3. 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.
4. VERTICAL DATUM: M.L.L.W.. FOR THE '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
7. PROJECT DEPTH: 7 FEET
8. CHANNEL WIDTH: 60 FEET
9. SURVEYED: 21-22 MARCH 2007.
10. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY 1:24000 QUAD MAPS AND CONSIDERED APPROXIMATE.

US Army Corps of Engineers
Baltimore District

Rev.	Description	Date	Appr.

Rev.	Description	Date	Appr.

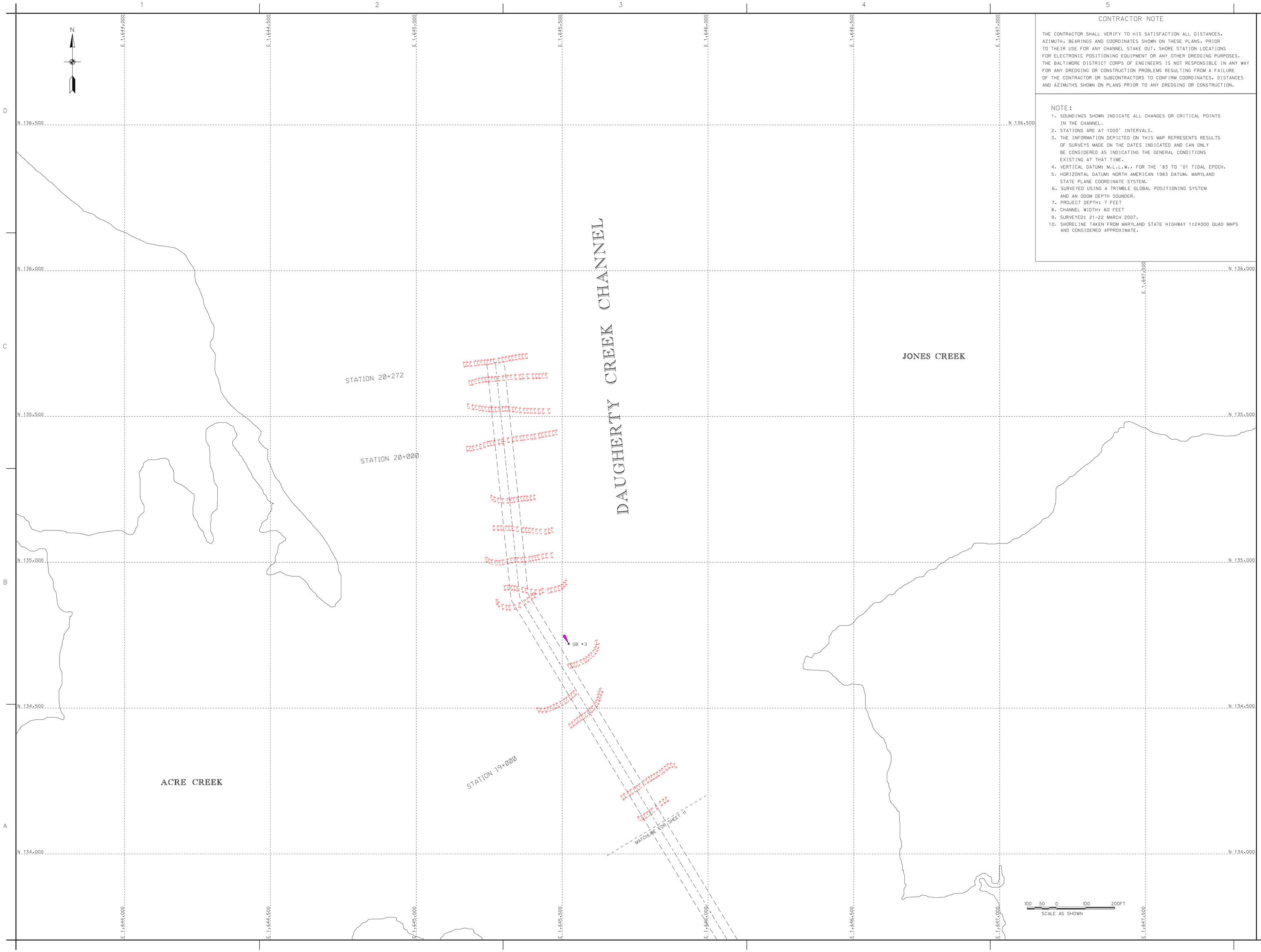
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: SMG
Ckd by:
Reviewed by:
Submitted by:
Chief, Nav. Branch
Date:
Rev.
Display file no. FILE 14 MAP-7-11
Drawing code:
File name: SHIDDEAMA007
Plot date:
Plot scale:

SOMERSET COUNTY
MARYLAND

CONDITION SURVEY
DAUGHERTY CREEK
STATION 15+200 TO 18+500

Sheet reference number:
V-111
Sheet 11 of 14



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. SOUNDINGS SHOWN INDICATE ALL CHANGES OR CRITICAL POINTS IN THE CHANNEL.
2. STATIONS ARE AT 1000' INTERVALS.
3. 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.
4. VERTICAL DATUM: M.L.L.W. FOR THE '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED USING A TRIMBLE GLOBAL POSITIONING SYSTEM AND AN ODOM DEPTH SOUNDER.
7. PROJECT DEPTH: 7 FEET
8. CHANNEL WIDTH: 60 FEET
9. SURVEYED: 21-22 MARCH 2007.
10. SHORELINE TAKEN FROM MARYLAND STATE HIGHWAY 1:24000 QUAD MAPS AND CONSIDERED APPROXIMATE.

US Army Corps of Engineers
Baltimore District

Symb.	Description	Date	Appr.

Symb.	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: SMG
Cad by:
Reviewed by:
Submitted by:
Chief, Hydr. Branch
Date:
Rev.
Design file no. FILE 34 MAR-7-12
Drawing code:
File name: SHD2CS4MAN07
Plot date:
Plot scale:

SOMERSET COUNTY
MARYLAND

CONDITION SURVEY
DAUGHERTY CREEK
STATION 18+600 TO 20+272

Sheet reference number:
V-112
Sheet 12 of 14