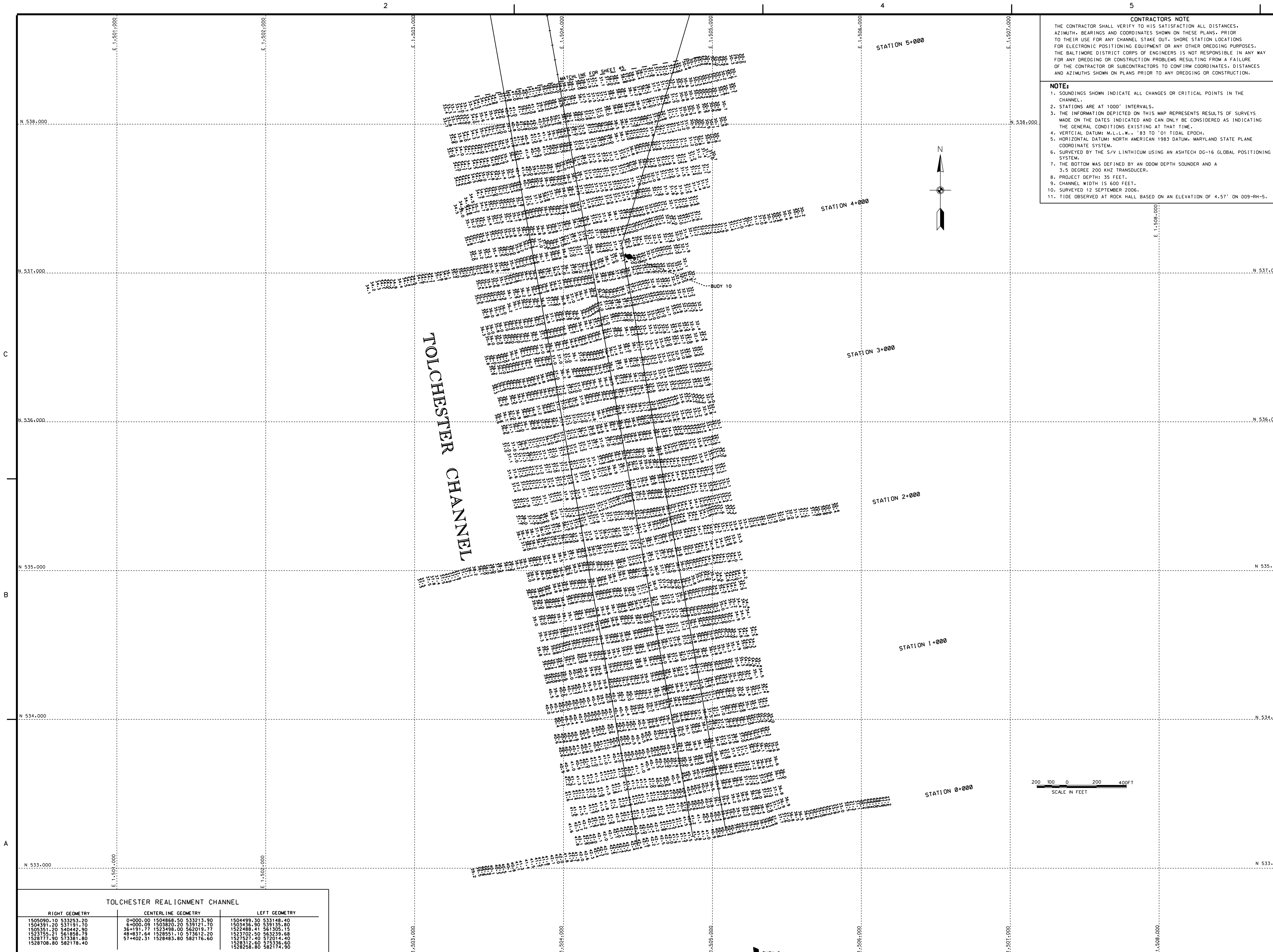


CONTRACTORS NOTE

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. VERTCIAL DATUM: M.L.L.W., '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED BY THE S/V LINTHICUM USING AN ASHTECH DG-16 GLOBAL POSITIONING SYSTEM.
7. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE 200 KHZ TRANSDUCER.
8. PROJECT DEPTH: 35 FEET.
9. CHANNEL WIDTH IS 600 FEET.
10. SURVEYED 12 SEPTEMBER 2006.
11. TIDE OBSERVED AT ROCK HALL BASED ON AN ELEVATION OF 4.57' ON 009-RH-5.

TOLCHESTER REALIGNMENT CHANNEL

RIGHT GEOMETRY	CENTERLINE GEOMETRY	LEFT GEOMETRY
1505090.10 533253.20	0+000.00 1504868.50 533213.90	1504499.30 533148.40
1504391.20 537191.70	6+000.09 1503820.20 539121.70	1503436.90 539135.80
1505351.20 540442.90	36+191.77 1523498.00 562019.77	1522488.41 561305.15
1523755.21 561858.79	48+837.64 1528551.10 573612.20	1523702.50 563239.68
1528777.90 573381.80	57+402.31 1528483.80 582176.60	1527527.40 572014.40
1528708.80 582178.40		1528312.60 575336.60
		1528258.80 582174.90

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

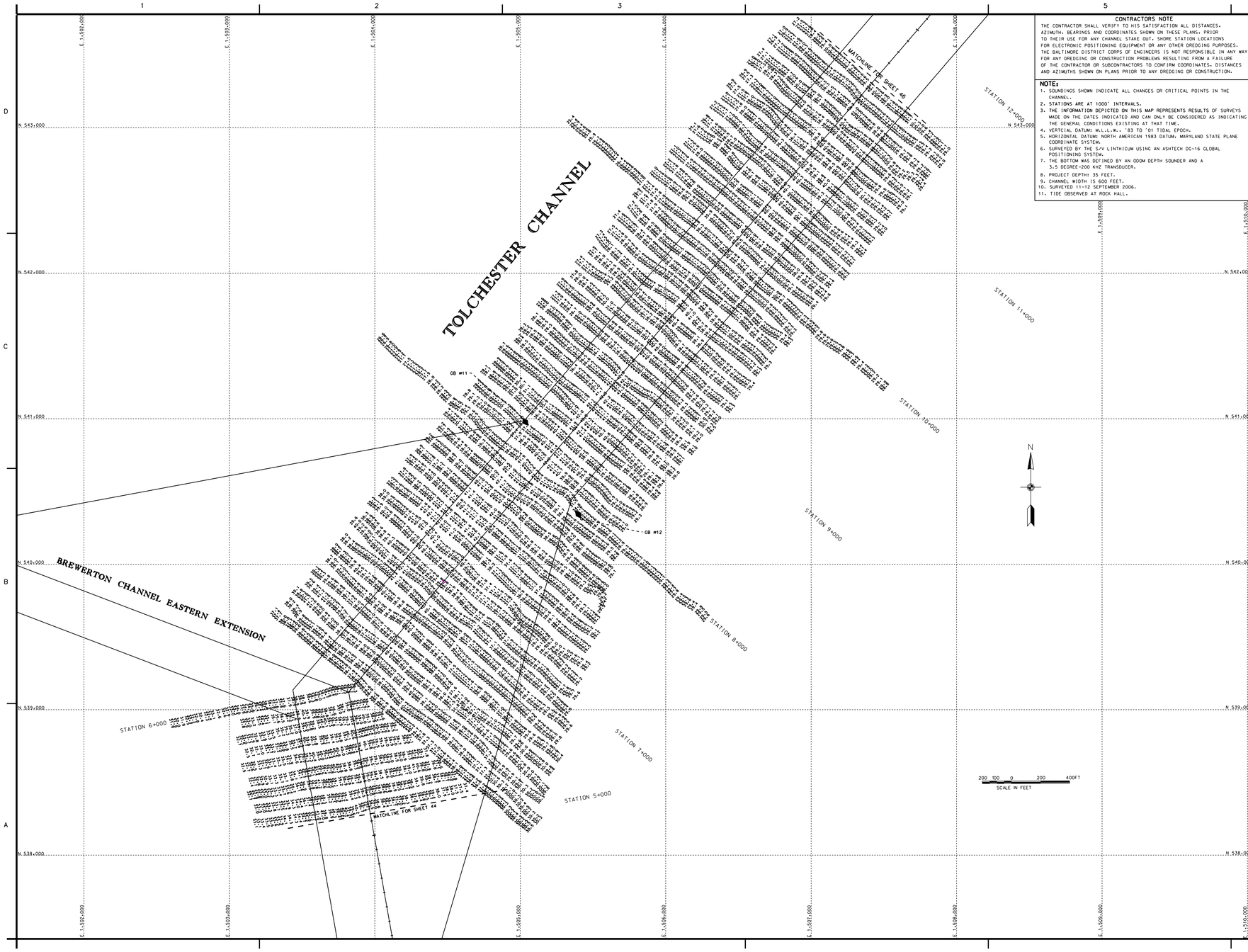
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: AMB
Ckd by: WSB
Reviewed by:
Submitted by:
Date: SEP. '06
Rev.
Design file no. FILE: 17 MAP: 8644
Drawing code:
File name: SH44CTTC6254
Plot date:
Plot scale:

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
TOLCHESTER CHANNEL
STATION 0+000 TO 5+100

Sheet reference number:
V 144
Sheet 44 of 59



CONTRACTORS 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. '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED BY THE S/V LINTHICUM USING AN ASHTECH DG-16 GLOBAL POSITIONING SYSTEM.
7. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE-200 KHZ TRANSDUCER.
8. PROJECT DEPTH: 35 FEET.
9. CHANNEL WIDTH IS 600 FEET.
10. SURVEYED 11-12 SEPTEMBER 2006.
11. TIDE OBSERVED AT ROCK HALL.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Approved

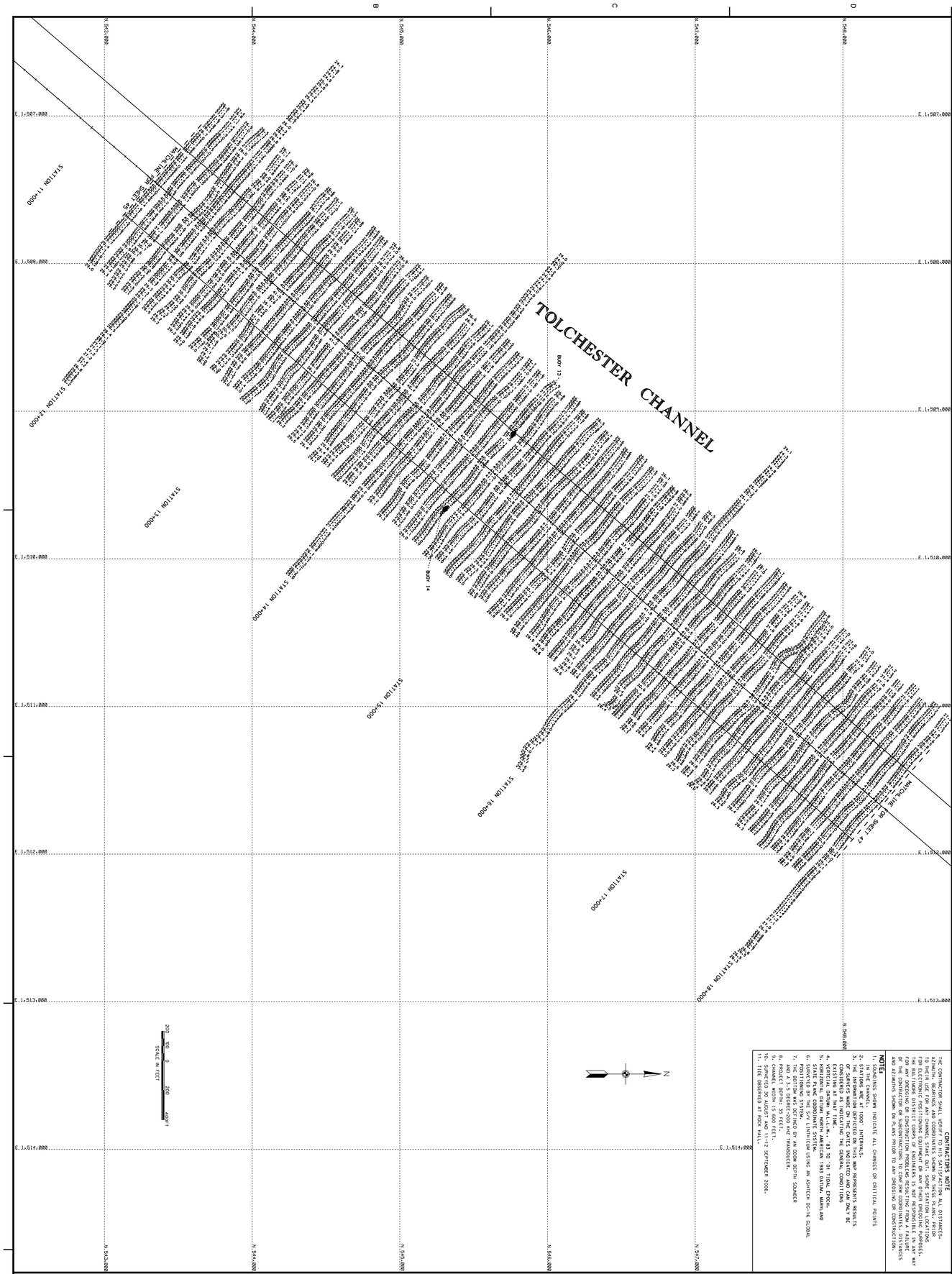
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: JAW
Date by: 08/06
Scale by: 1:500
Drawing scale: 1:500
Reviewed by:
Submitted by:
Chief, Nav. Branch
File name: SHEET15.DGN
Plot date:
Plot scale:
Size: 22X34
Project TM Name: B&S
Rev.

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
TOLCHESTER CHANNEL
STATION 5+200 TO 11+500

Sheet reference number:
V-145
Sheet 45 of 59



CONTRACTORS NOTE

THE CONTRACTOR SHALL VERIFY ALL DISTANCES, AZIMUTH, BEARINGS AND COORDINATES SHOWN ON THESE PLANS, PRIOR TO THEIR USE FOR ANY CHANNEL STAKE OUT, SHORE STATION LOCATIONS AND ALIGNMENTS OR OTHER PURPOSES. THE BALTIMORE DISTRICT CORPS OF ENGINEERS IS NOT RESPONSIBLE IN ANY WAY FOR ANY DREDGING OR CONSTRUCTION PROBLEMS RESULTING FROM A FAILURE OF A CONTRACTOR TO VERIFY ALL DISTANCES AND AZIMUTHS SHOWN ON PLANS PRIOR TO ANY DREDGING OR CONSTRUCTION.

NOTES:

1. SOUNDINGS SHOWN INDICATE ALL CHANGES OR CRITICAL POINTS OF THE CHANNEL.
2. 25 FT. TRANSECT INTERVALS.
3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE EXPECTED TO REPRESENT THE GENERAL CONDITIONS EXISTING AT THAT TIME.
4. VERTICAL DATUM IS MEAN LOW WATER.
5. HORIZONTAL DATUM IS NAD 83 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SOUNDINGS ARE REFERRED TO TIDAL EPOCH.
7. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER POSITIONING SYSTEM, LINTHICUM USING AN ASHTECH DC-16 GLOBAL AND A 3.5 KHZ DUAL FREQUENCY TRANSDUCER.
8. PRODUCT ACCURACY IS 0.1 FT.
9. CHANNEL WIDTH IS 600 FEET.
10. SURVEYED 30 AUGUST AND 11-12 SEPTEMBER 2006.
11. TIDE OBSERVED AT ROCK HALL.

Sheet reference number	V-146
Sheet 46 of 98	

BALTIMORE HARBOR
MARYLAND

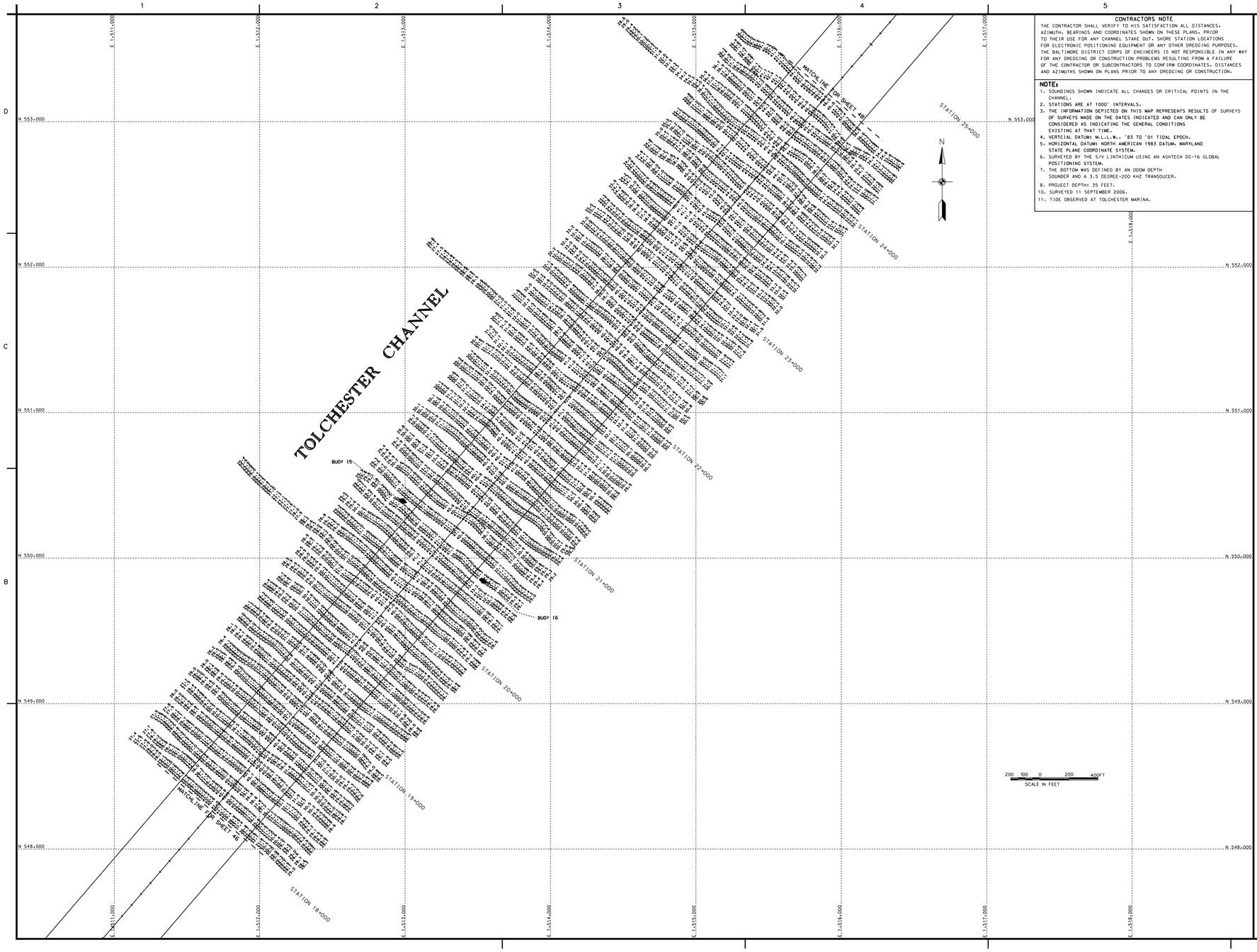
CONDITION SURVEY
TOLCHESTER CHANNEL
STATION 11+600 TO 18+000

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:		Date: SEP. '06	Rev.
Dwn by: AMB	Ckd by: WSB	Design file no. FILE: 17 MAP: B646	
Reviewed by:		Drawing code:	
Submitted by:		File name: SH46CTC6254	
Chief, Nav. Branch		Plot date:	
		Plot scale:	

Work	Description	Date	Appr.	Work	Description	Date	Appr.

US Army Corps of Engineers Baltimore District



CONTRACTORS 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 OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
4. VERTCIAL DATUM: M.L.L.W.. '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM. MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED BY THE S/V LINTHICUM USING AN ASHTECH DG-16 GLOBAL POSITIONING SYSTEM.
7. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE-200 KHZ TRANSDUCER.
8. PROJECT DEPTH: 35 FEET.
10. SURVEYED 11 SEPTEMBER 2006.
11. TIDE OBSERVED AT TOLCHESTER MARINA.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

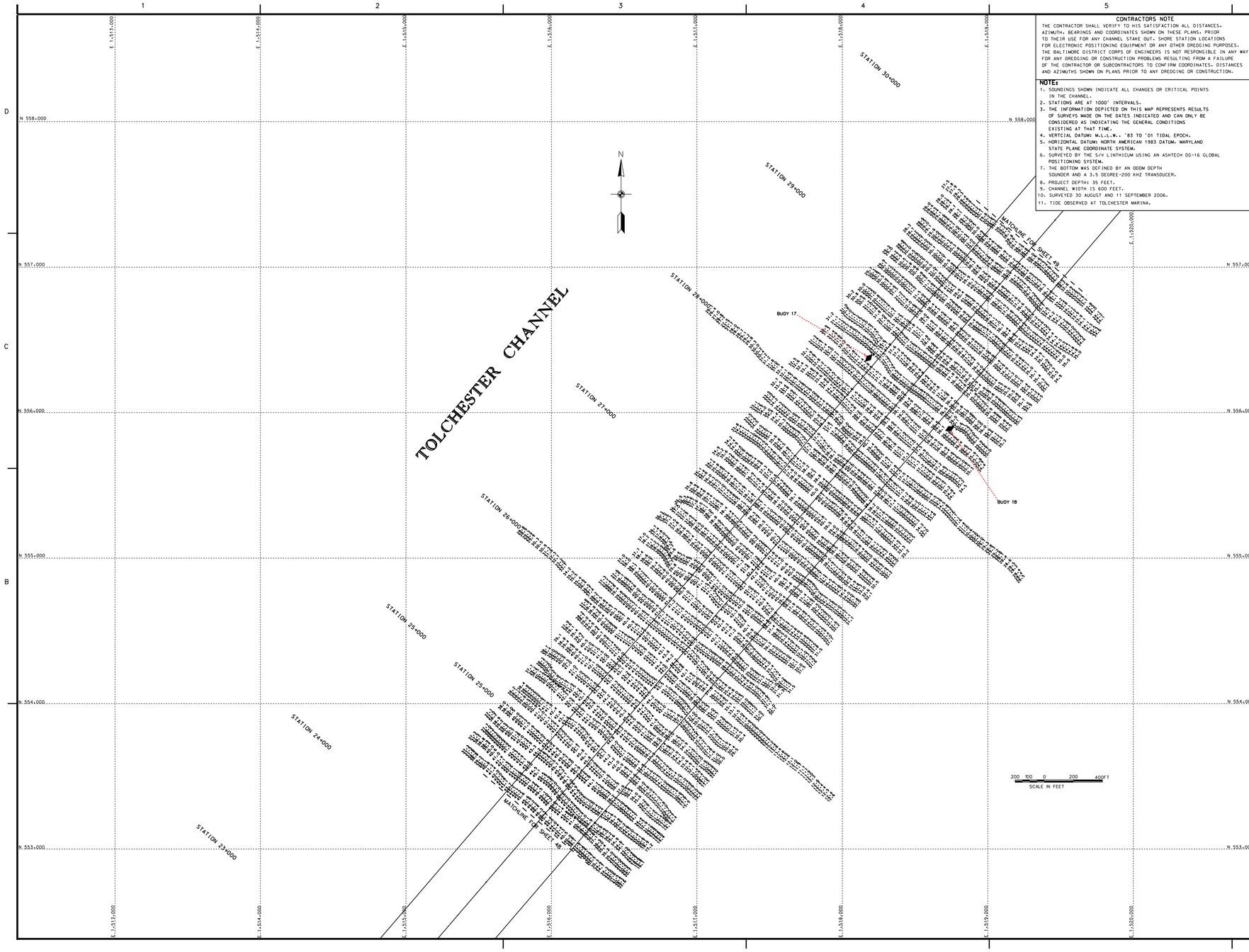
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: CAD
Drawn by: CAD
Reviewed by:
Submitted by:
Chief, Nav. Branch
Scale: 1" = 200'
Plot Date: 19 Nov. 2007
Drawing name: 06-147-V-47.dwg
File name: 06147V47.DGN
Plot Scale: 1:1
Rev.

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
TOLCHESTER CHANNEL
STATION 18+00 TO 24+500

Sheet reference number:
V-147
Sheet 47 of 59



CONTRACTORS 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. VERTCIAL DATUM: M.L.L.W.. '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM. MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED BY THE S/V LINTHICUM USING AN ASHTECH DG-16 GLOBAL POSITIONING SYSTEM.
7. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE-200 KHZ TRANSDUCER.
8. PROJECT DEPTH: 35 FEET.
9. CHANNEL WIDTH IS 600 FEET.
10. SURVEYED 30 AUGUST AND 11 SEPTEMBER 2006.
11. TIDE OBSERVED AT TOLCHESTER MARINA.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Approved

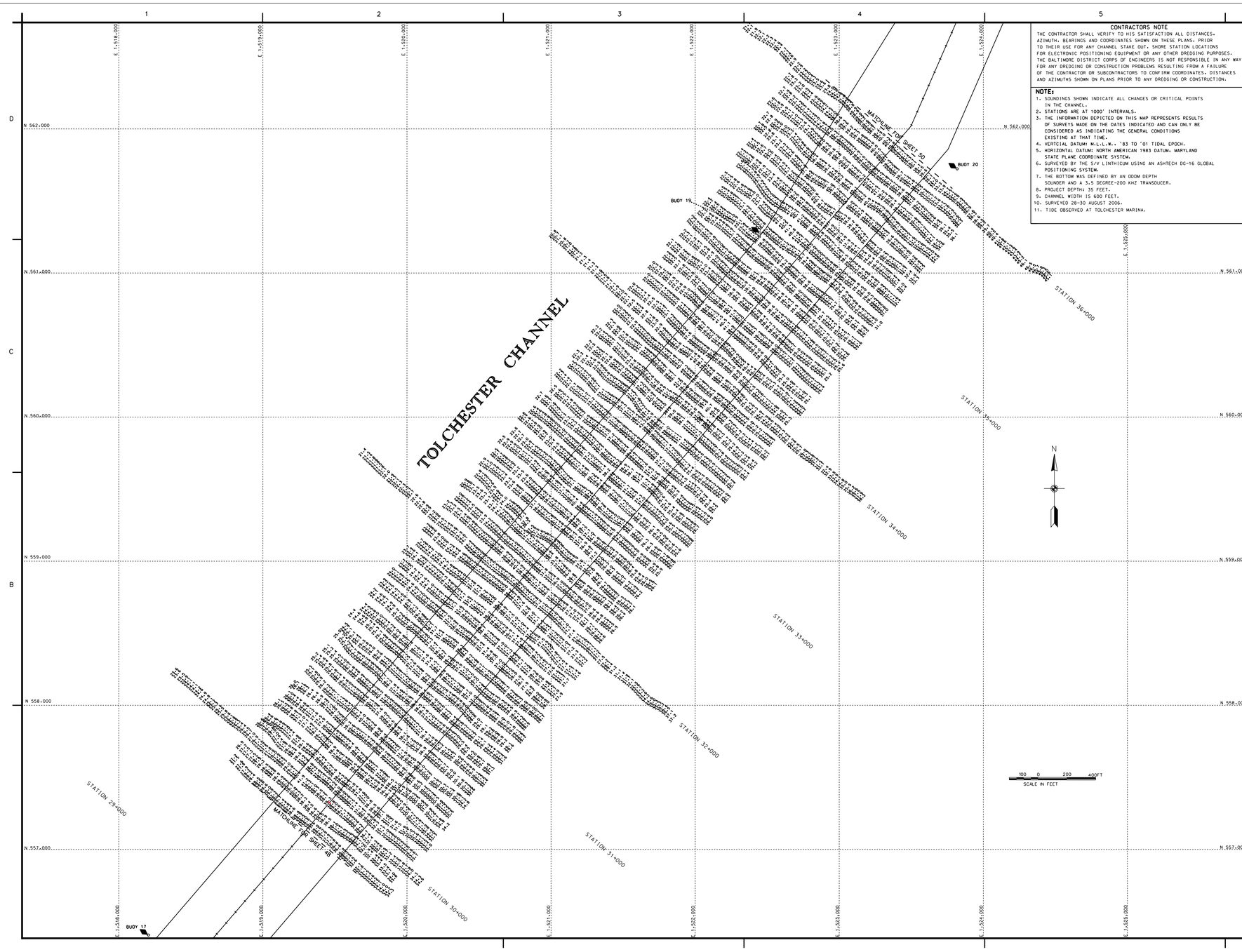
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: CWB
Date: 06/07
Checked by: MJB
Reviewed by:
Supervised by:
Scale: 1" = 200'
Drawing number: 06-06
Project file name: 06-06-TOLCHESTER CHANNEL.dwg
Plot date: 06/07/2007
Plot by: Chief, Hydro Branch

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
TOLCHESTER CHANNEL
STATION 24+600 TO 29+700

Sheet reference number:
V-148
Sheet 48 of 59



CONTRACTORS NOTE

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NOTE:

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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. VERTCIAL DATUM: M.L.L.W., '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED BY THE S/V LINTHICUM USING AN ASHTECH DG-16 GLOBAL POSITIONING SYSTEM.
7. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE-200 KHZ TRANSDUCER.
8. PROJECT DEPTH: 35 FEET.
9. CHANNEL WIDTH IS 600 FEET.
10. SURVEYED 28-30 AUGUST 2006.
11. TIDE OBSERVED AT TOLCHESTER MARINA.

US Army Corps of Engineers
Baltimore District

Rev.	Date	Appr.	Description

Rev.	Date	Appr.	Description

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

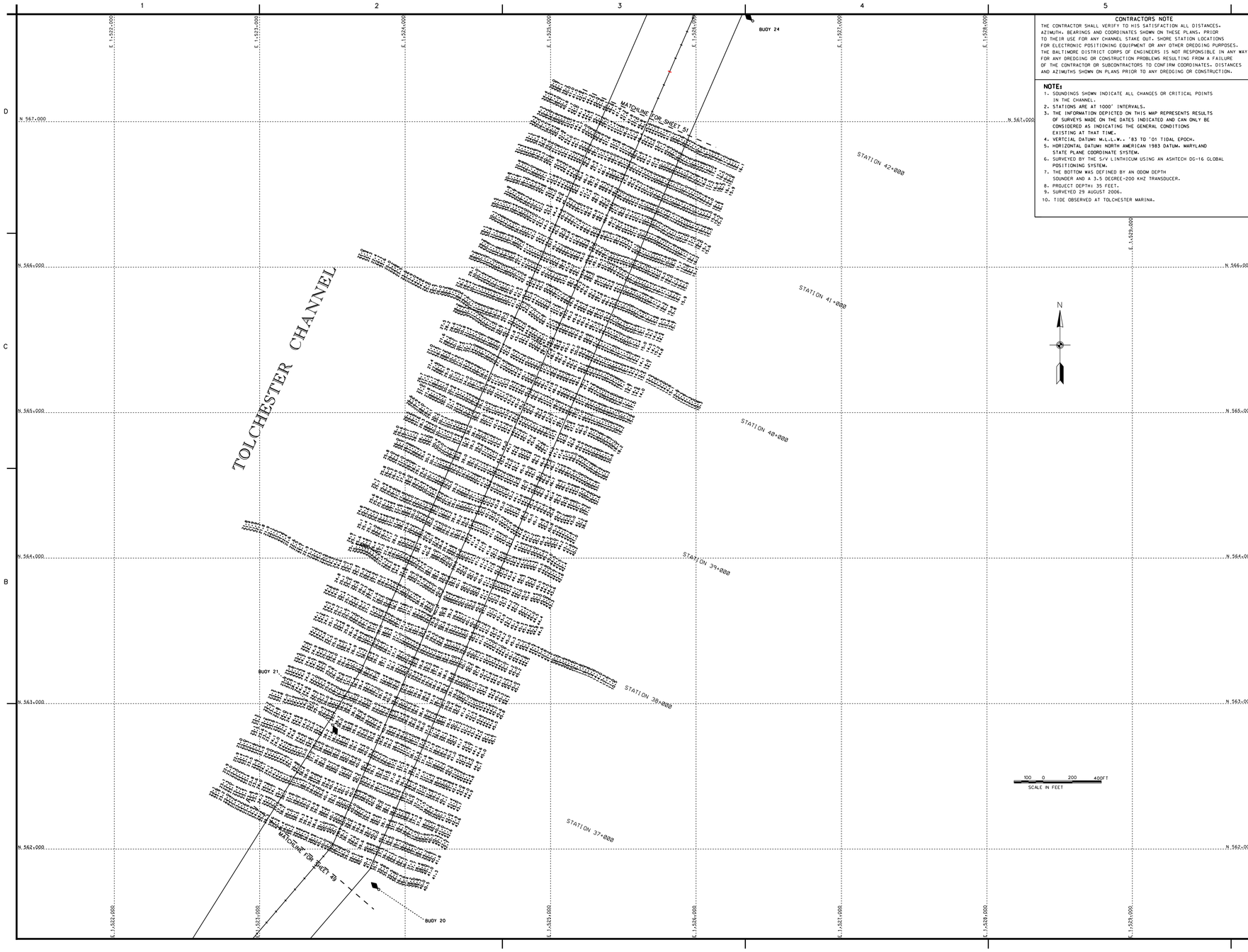
Designed by: | Dwn by: WSB | Ckd by: | Reviewed by: | Submitted by: | Chief, Nav. Branch

Date: SEP. '06 | Dwg. No. FILE: 17 MAPS 0849 | Drawing code: | File name: SHEET0024D | Plot scale: | Plot date:

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
TOLCHESTER CHANNEL
STATION 29+800 TO 36+000

Sheet reference number:
V-149
Sheet 49 of 59



CONTRACTORS 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:

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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. VERTCIAL DATUM: M.L.L.W. '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED BY THE S/V LITHHICUM USING AN ASHTECH DG-16 GLOBAL POSITIONING SYSTEM.
7. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE-200 KHZ TRANSDUCER.
8. PROJECT DEPTH: 35 FEET.
9. SURVEYED 29 AUGUST 2006.
10. TIDE OBSERVED AT TOLCHESTER MARINA.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

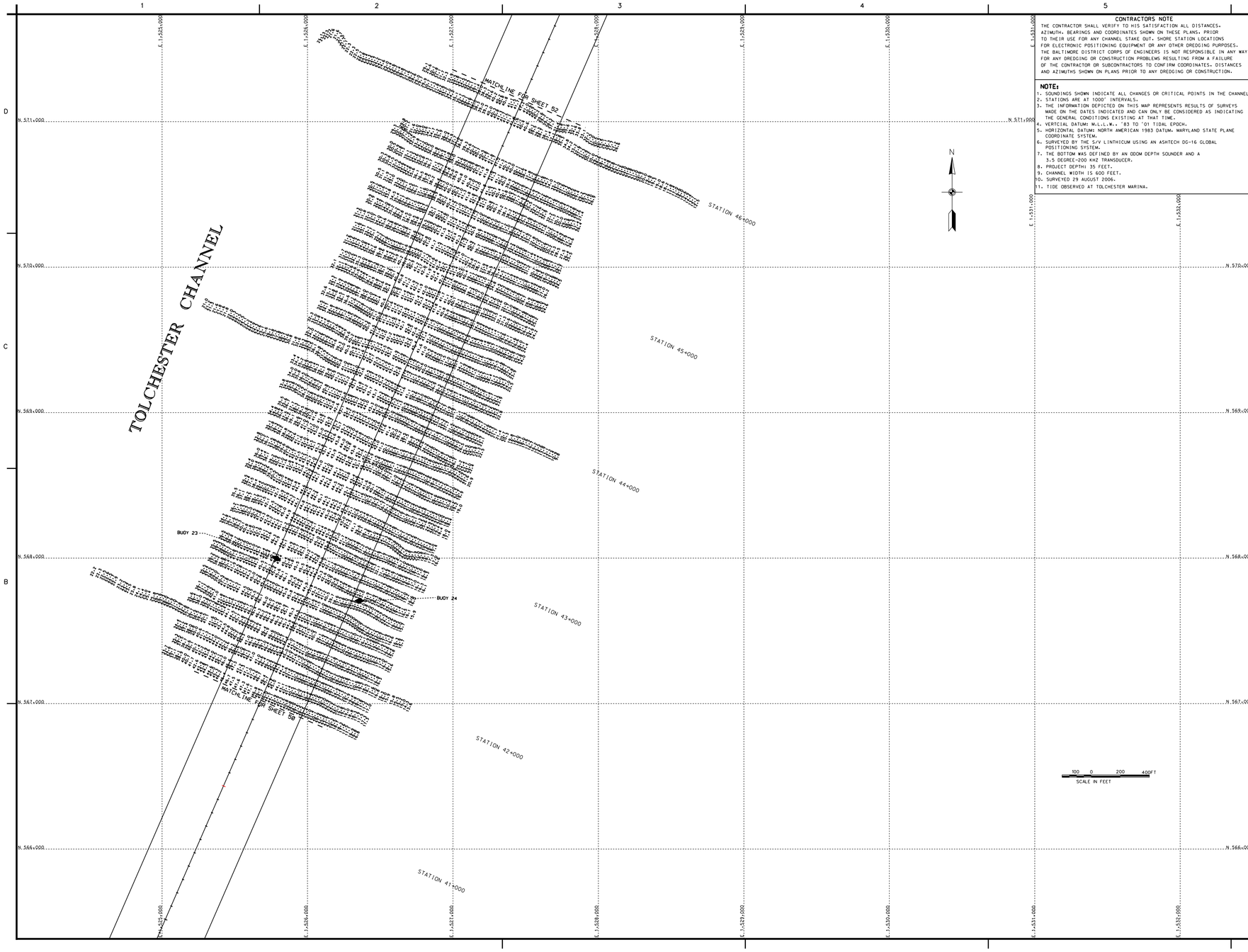
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: N/A
Date: N/A
Drawn by: JMB
Date: 08/29/06
Reviewed by: JMB
Scale: 1" = 200'
Date: 08/29/06
Submitted by: N/A
Drawing code: File name: 20060TOLCHS
Plot date:
Chief, Nav. Branch
Plot time:

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
TOLCHESTER CHANNEL
STATION 36+200 TO 41+600

Sheet reference number:
V-150
Sheet 50 of 59



CONTRACTORS NOTE

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NOTE:

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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. VERTCIAL DATUM: M.L.L.W., '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM. MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED BY THE S/V LINTHICUM USING AN ASHTECH DG-16 GLOBAL POSITIONING SYSTEM.
7. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE-200 KHZ TRANSDUCER.
8. PROJECT DEPTH: 35 FEET.
9. CHANNEL WIDTH IS 600 FEET.
10. SURVEYED 29 AUGUST 2006.
11. TIDE OBSERVED AT TOLCHESTER MARINA.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Approved

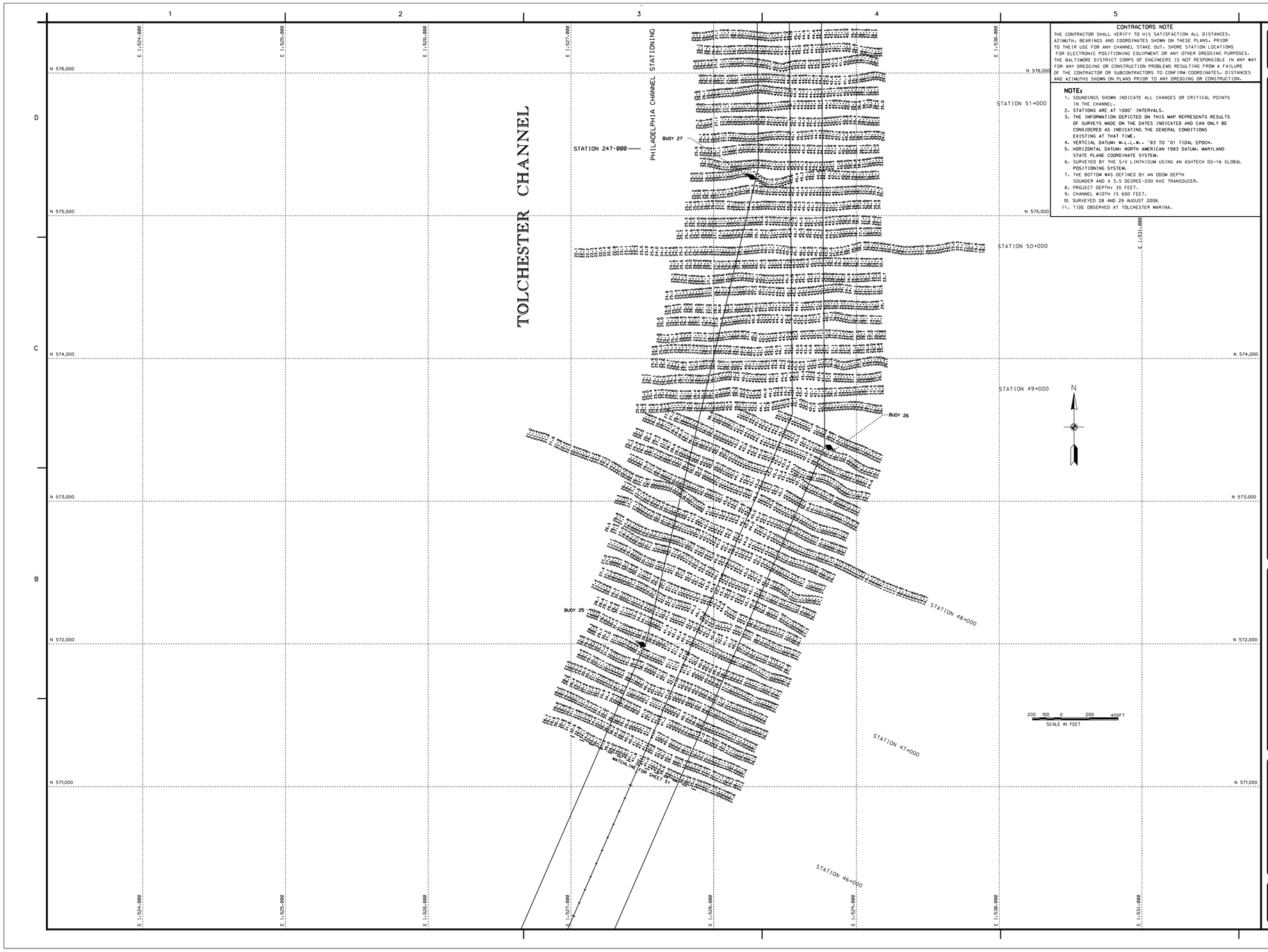
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: Date
Drawn by: Date
Reviewed by: Drawing code:
Submitted by: Chief, Nav. Branch
Size: 22x34
Scale: 1" = 100'
Date: 08/2006
File name: SHEET59.DGN
Plot scale: 1:1
Rev.

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
TOLCHESTER CHANNEL
STATION 41+700 TO 43+100

Sheet reference number:
V-151
Sheet 51 of 59



CONTRACTORS 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. VERTCIAL DATUM: M.L.L.W., '83 TO '01 TIDAL EPOCH.
5. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
6. SURVEYED BY THE S/V LINTHICUM USING AN ASHTECH DG-16 GLOBAL POSITIONING SYSTEM.
7. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE-200 KHZ TRANSDUCER.
8. PROJECT DEPTH: 35 FEET.
9. CHANNEL WIDTH IS 600 FEET.
10. SURVEYED 28 AND 29 AUGUST 2006.
11. TIDE OBSERVED AT TOLCHESTER MARINA.

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: | Ckd by: | Reviewed by: | Submitted by: | Chief, Arch. Branch
Date: SEP. '06 | Rev.
Design file no. FILE:V17 MAP1 8652
Drawing code:
File name: SHOCT1F4243
Plot date:
Plot scale:

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
TOLCHESTER CHANNEL
STATION 46+200 TO 51+500

Sheet reference number:
V-152
Sheet 52 of 59