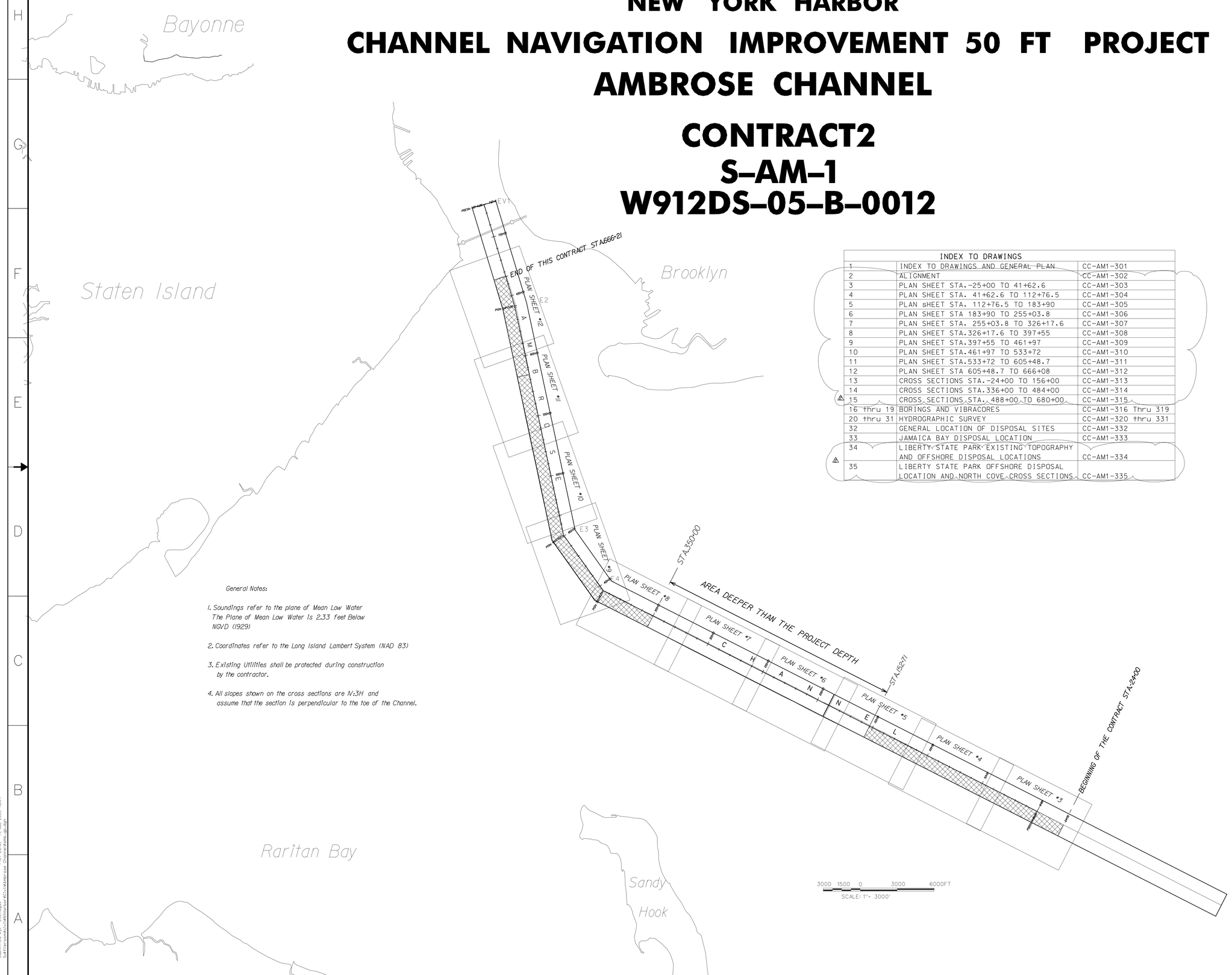
NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL

CONTRACT2
S–AM–1
W912DS–05–B–0012



General Notes:

1. Soundings refer to the plane of Mean Low Water The Plane of Mean Low Water Is 2.33 feet Below NGVD (1929)

2. Coordinates refer to the Long Island Lambert System (NAD 83)

3. Existing Utilities shall be protected during construction by the contractor.

4. All slopes shown on the cross sections are N:3H and assume that the section Is perpendicular to the toe of the Channel.

INDEX TO DRAWINGS

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2	ALIGNMENT	CC-AM1-302
3	PLAN SHEET STA.-25+00 TO 41+62.6	CC-AM1-303
4	PLAN SHEET STA. 41+62.6 TO 112+76.5	CC-AM1-304
5	PLAN sHEET STA. 112+76.5 TO 183+90	CC-AM1-305
6	PLAN SHEET STA 183+90 TO 255+03.8	CC-AM1-306
7	PLAN SHEET STA. 255+03.8 TO 326+17.6	CC-AM1-307
8	PLAN SHEET STA.326+17.6 TO 397+55	CC-AM1-308
9	PLAN SHEET STA.397+55 TO 461+97	CC-AM1-309
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12	PLAN SHEET STA 605+48.7 TO 666+08	CC-AM1-312
13	CROSS SECTIONS STA.-24+00 TO 156+00	CC-AM1-313
14	CROSS SECTIONS STA.336+00 TO 484+00	CC-AM1-314
15	CROSS SECTIONS STA. 488+00 TO 680+00	CC-AM1-315
16 thru 19	BORINGS AND VIBRACORES	CC-AM1-316 thru 319
20 thru 31	HYDROGRAPHIC SURVEY	CC-AM1-320 thru 331
32	GENERAL LOCATION OF DISPOSAL SITES	CC-AM1-332
33	JAMAICA BAY DISPOSAL LOCATION	CC-AM1-333
34	LIBERTY STATE PARK EXISTING TOPOGRAPHY AND OFFSHORE DISPOSAL LOCATIONS	CC-AM1-334
35	LIBERTY STATE PARK OFFSHORE DISPOSAL LOCATION AND NORTH COVE CROSS SECTIONS	CC-AM1-335

US Army Corps of Engineers
New York District

Symbol	Description	Date	Rev.
4	Sheet C-35 and C-37 are eliminated and sheet numbers are rearranged accordingly. I thru 35 and Alignment Data sheet All Plan Sheets and Cross sections sheets are revised.	7/19/05	G.A.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Photogrpm Assigngd
Dwn by: GA
Ckd by:
Reviewed by: GA
Submitted by:
Date: 19 MAY 2005
Drawing file no.: CC-AM1-301
Drawing code:
Rev date: 19-JUL-2005 16:34
Plot by: eberdega
Scale: 0000000000.00000
Size:
Rev.

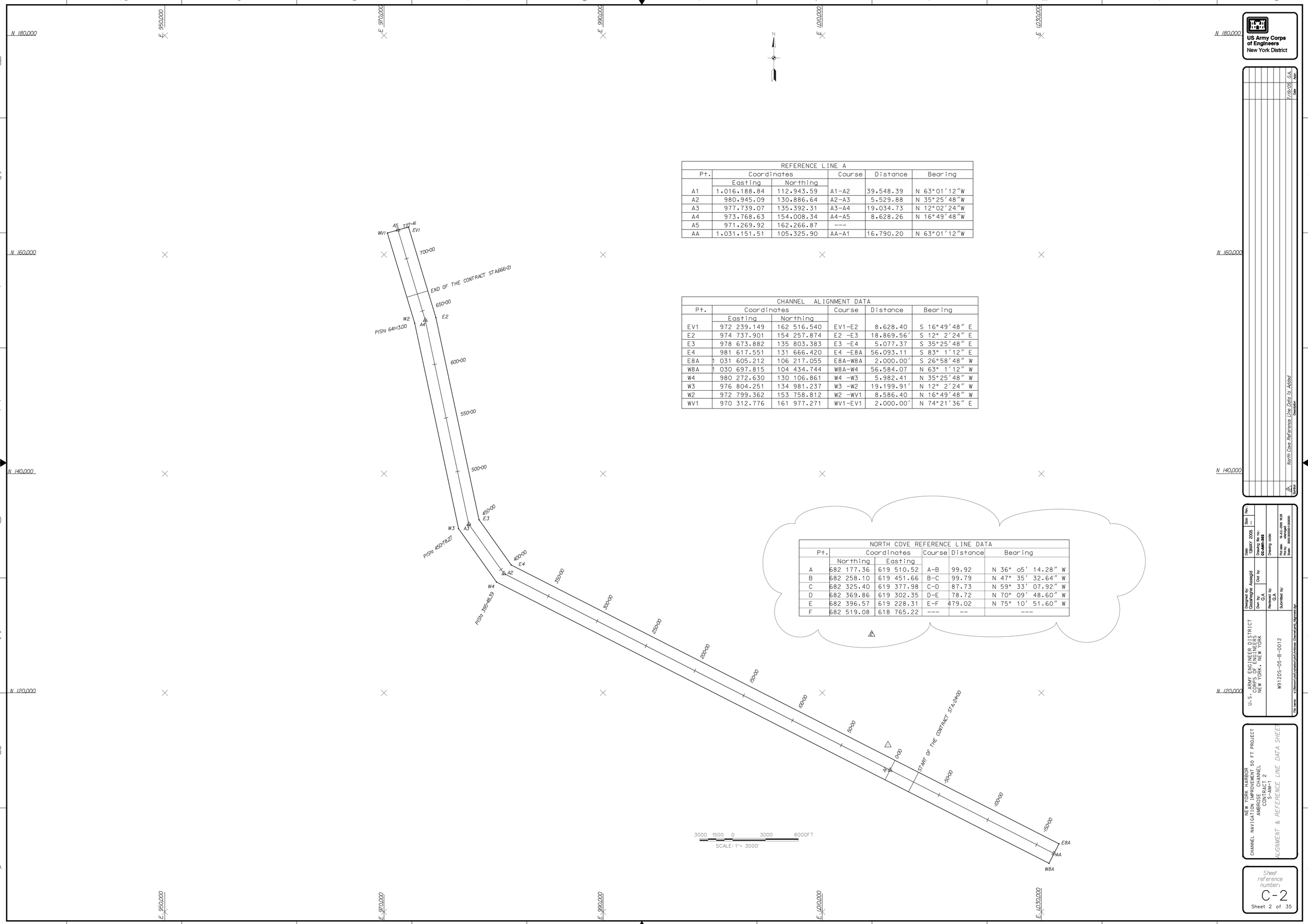
File name: S:\Maccon\pdt\Hinkley\Cad\Contracts\ChannelKeels_gb.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

COVER SHEET,GENERAL PLAN AND INDEX TO DRAWINGS

Sheet reference number:
C-1
Sheet 1 of 35

Submitted by: eberdega3
Sa:\Maccon\pdt\Hinkley\Cad\Contracts\ChannelKeels_gb.dgn
Plot Date: 19-JUL-2005 16:34



REFERENCE LINE A					
Pt.	Coordinates		Course	Distance	Bearing
	Easting	Northing			
A1	1,016,188.84	112,943.59	A1-A2	39,548.39	N 63°01′12″W
A2	980,945.09	130,886.64	A2-A3	5,529.88	N 35°25′48″W
A3	977,739.07	135,392.31	A3-A4	19,034.73	N 12°02′24″W
A4	973,768.63	154,008.34	A4-A5	8,628.26	N 16°49′48″W
A5	971,269.92	162,266.87	---		
AA	1,031,151.51	105,325.90	AA-A1	16,790.20	N 63°01′12″W

CHANNEL ALIGNMENT DATA					
Pt.	Coordinates		Course	Distance	Bearing
	Easting	Northing			
EV1	972 239.149	162 516.540	EV1-E2	8.628.40	S 16°49′48″ E
E2	974 737.901	154 257.874	E2 -E3	18.869.56′	S 12° 2′24″ E
E3	978 673.882	135 803.383	E3 -E4	5.077.37	S 35°25′48″ E
E4	981 617.551	131 666.420	E4 -E8A	56.093.11	S 83° 1′12″ E
E8A	1 031 605.212	106 217.055	E8A-W8A	2.000.00′	S 26°58′48″ W
W8A	1 030 697.815	104 434.744	W8A-W4	56.584.07	N 63° 1′12″ W
W4	980 272.630	130 106.861	W4 -W3	5.982.41	N 35°25′48″ W
W3	976 804.251	134 981.237	W3 -W2	19.199.91′	N 12° 2′24″ W
W2	972 799.362	153 758.812	W2 -WV1	8.586.40	N 16°49′48″ W
WV1	970 312.776	161 977.271	WV1-EV1	2.000.00′	N 74°21′36″ E

NORTH COVE REFERENCE LINE DATA					
Pt.	Coordinates		Course	Distance	Bearing
	Northing	Easting			
A	682 177.36	619 510.52	A-B	99.92	N 36° 05′ 14.28″ W
B	682 258.10	619 451.66	B-C	99.79	N 47° 35′ 32.64″ W
C	682 325.40	619 377.98	C-D	87.73	N 59° 33′ 07.92″ W
D	682 369.86	619 302.35	D-E	78.72	N 70° 09′ 48.60″ W
E	682 396.57	619 228.31	E-F	479.02	N 75° 10′ 51.60″ W
F	682 519.08	618 765.22	---	--	---

US Army Corps of Engineers
New York District

Date	Description	By
7/29/05		G.A.

North Cove References Line Data Is Added

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Contractor Assigned
Date: 7/29/05
Drawn by: G.A.
Checked by:
Reviewed by: G.A.
Submitted by:
Size: —
Rev:
Drawing No.: CC-AM1-302
Drawing code:
Plot date: 19-JUL-2005 16:33
Plot by: ebendgal
Scale: 3000X3000X1000X500

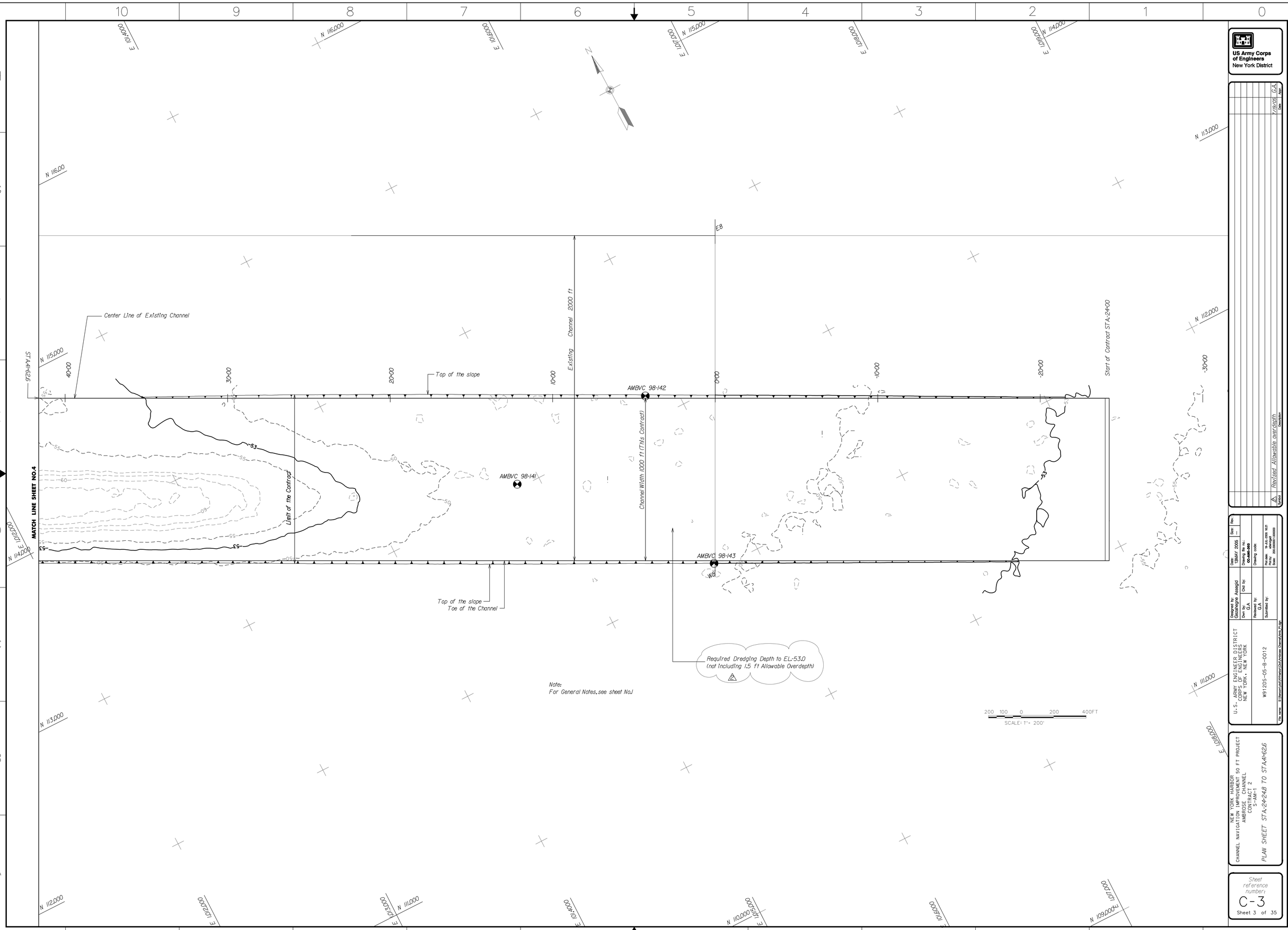
File name: s:\Secure\cdd\civil\dwg\Cc\Amcrose Channel\amc_Alignment.dgn

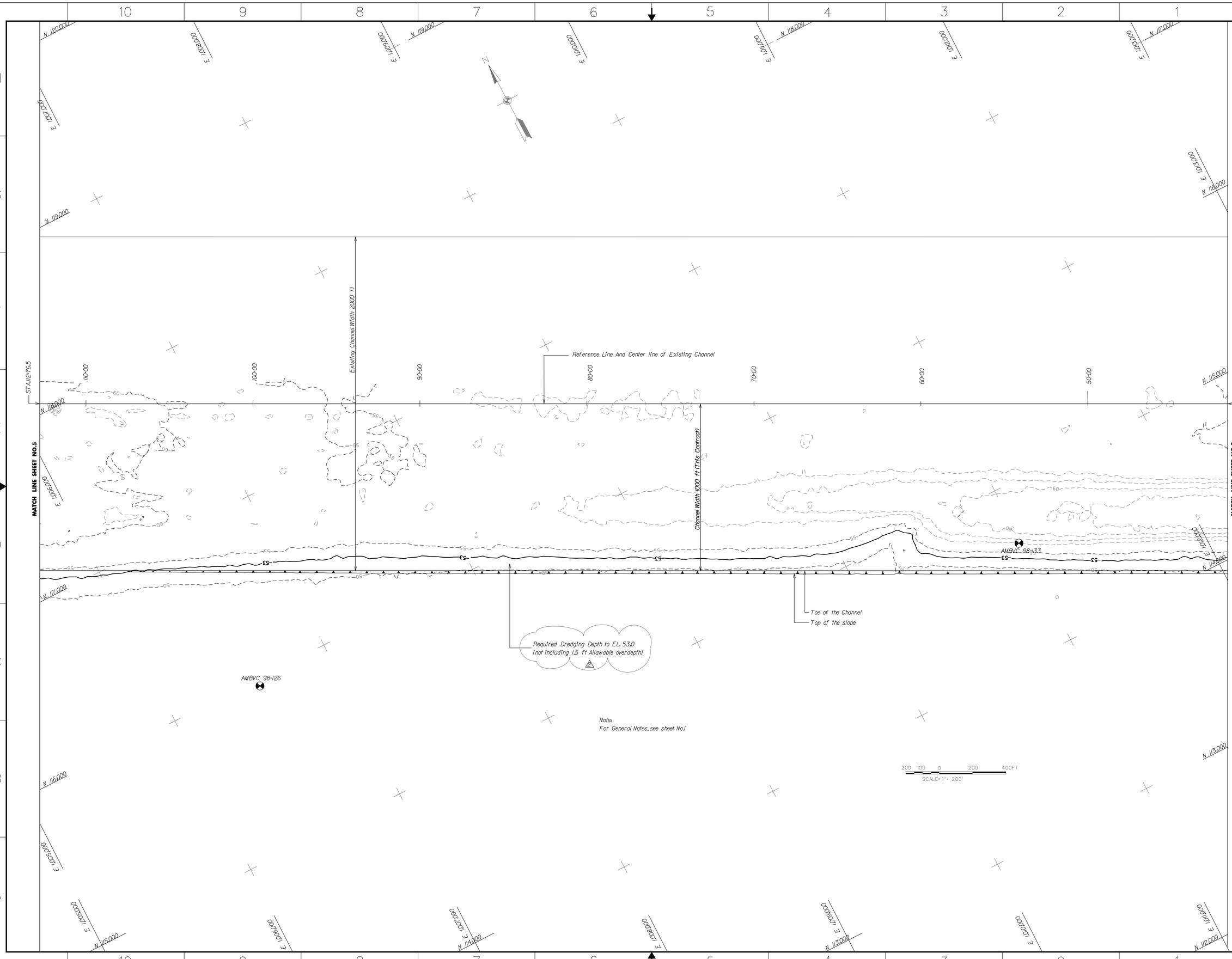
NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

ALIGNMENT & REFERENCE LINE DATA SHEET

Sheet reference number:
C-2
Sheet 2 of 35

Submitted by: ebendgal3
Plot Date: 19-JUL-2005 16:33
Plot Scale: 1:1000
Plot Driver: PostScript Color 2 Level 2 Adobe
File: s:\Secure\cdd\civil\dwg\Cc\Amcrose Channel\amc_Alignment.dgn


MATCH LINE SHEET NO.4
STA4+62.6
Center Line of Existing Channel
Top of the slope
Existing Channel 2000 ft
Channel Width 1000 ft (This Contract)
Limit of the Contract
AMBVC 98-142
AMBVC 98-141
AMBVC 98-143
Start of Contract STA.24+00
Top of the slope
Toe of the Channel
Required Dredging Depth to EL.-53.0
(not including 1.5 ft Allowable Overdepth)
Note:
For General Notes, see sheet No.1
SCALE: 1"= 200'
US Army Corps of Engineers
New York District
NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ARTHUR KILL CHANNEL
CONTRACT 2
S-AM-1
PLAN SHEET STA.24+24.8 TO STA.4+62.6
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK
W912DS-05-B-0012
Designed by: Photogrammetry Assigned
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:
Date: 19 MAY 2005
Drawing file no.: CC-AM-S-03
Drawing code:
Rev. date: 19-JUL-2005 16:21
Plot by: eberiga3
Scale: 0.0100000=1.00000
Size:
Rev.
Revised Allowable overdepth
Sheet reference number:
C-3
Sheet 3 of 35



US Army Corps of Engineers
New York District

Rev.	Date	Description
A	7/19/05	G.A. Revised Allowable Overdepth

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Delegated Assigned
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:
Date: 19 MAY 2005
Drawing file no.: CC-AM1-304
Drawing code:
Rev date: 19-JUL-2005 16:23
Plot by: eberger3
Scale: 0.0100000100000
Size:
Rev.

File name: S:\Maroon\net\hhmarv\Civil\Arcmap Deepen\Amb_P2.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ARTHUR KILL CHANNEL
CONTRACT 2
S-AM-1

PLAN SHEET STA.A1+62.6 TO STA.U12+76.5

Sheet reference number:
C-4
Sheet 4 of 35

Submitted by: eberger3 Plot Date: 19-JUL-2005 16:23
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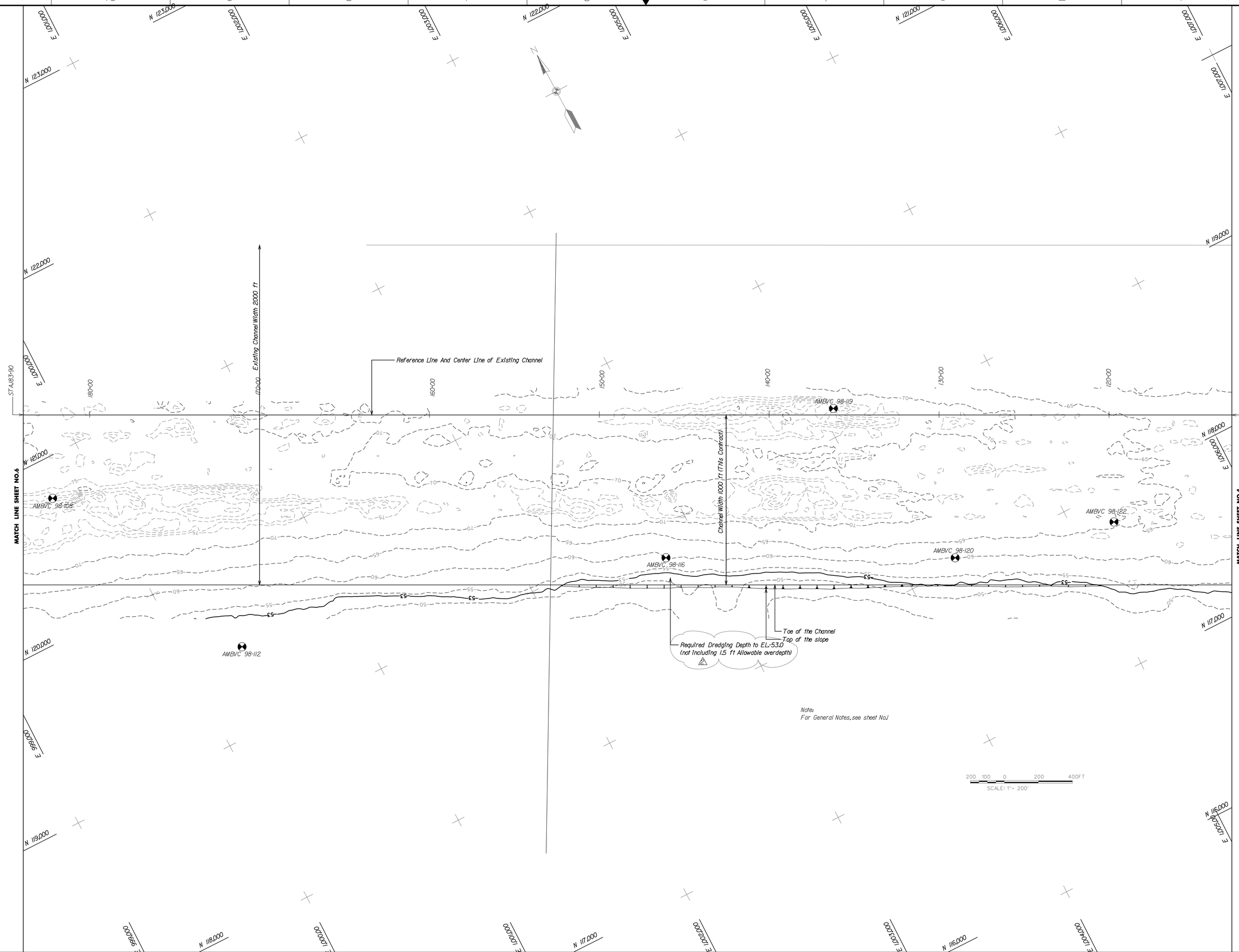
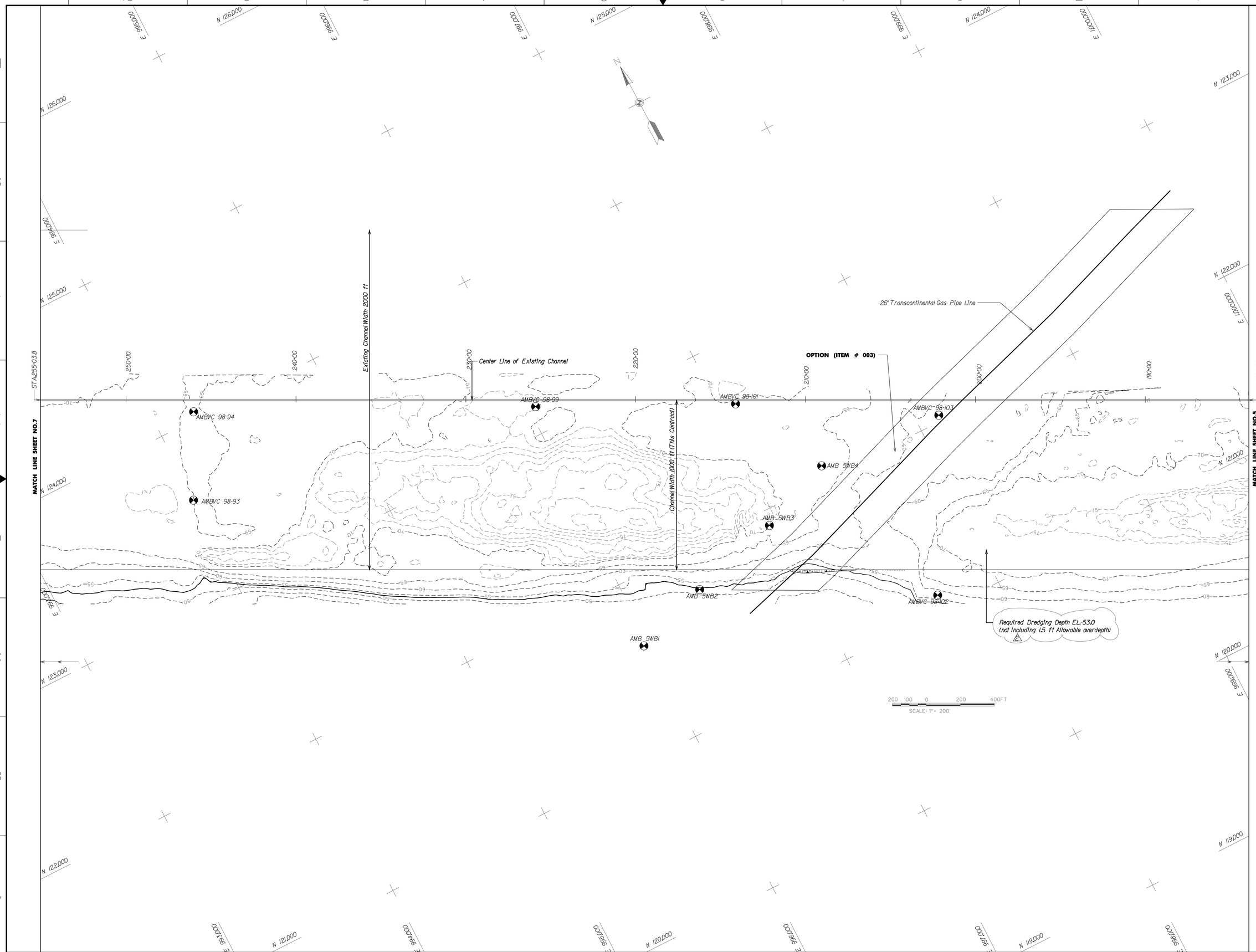
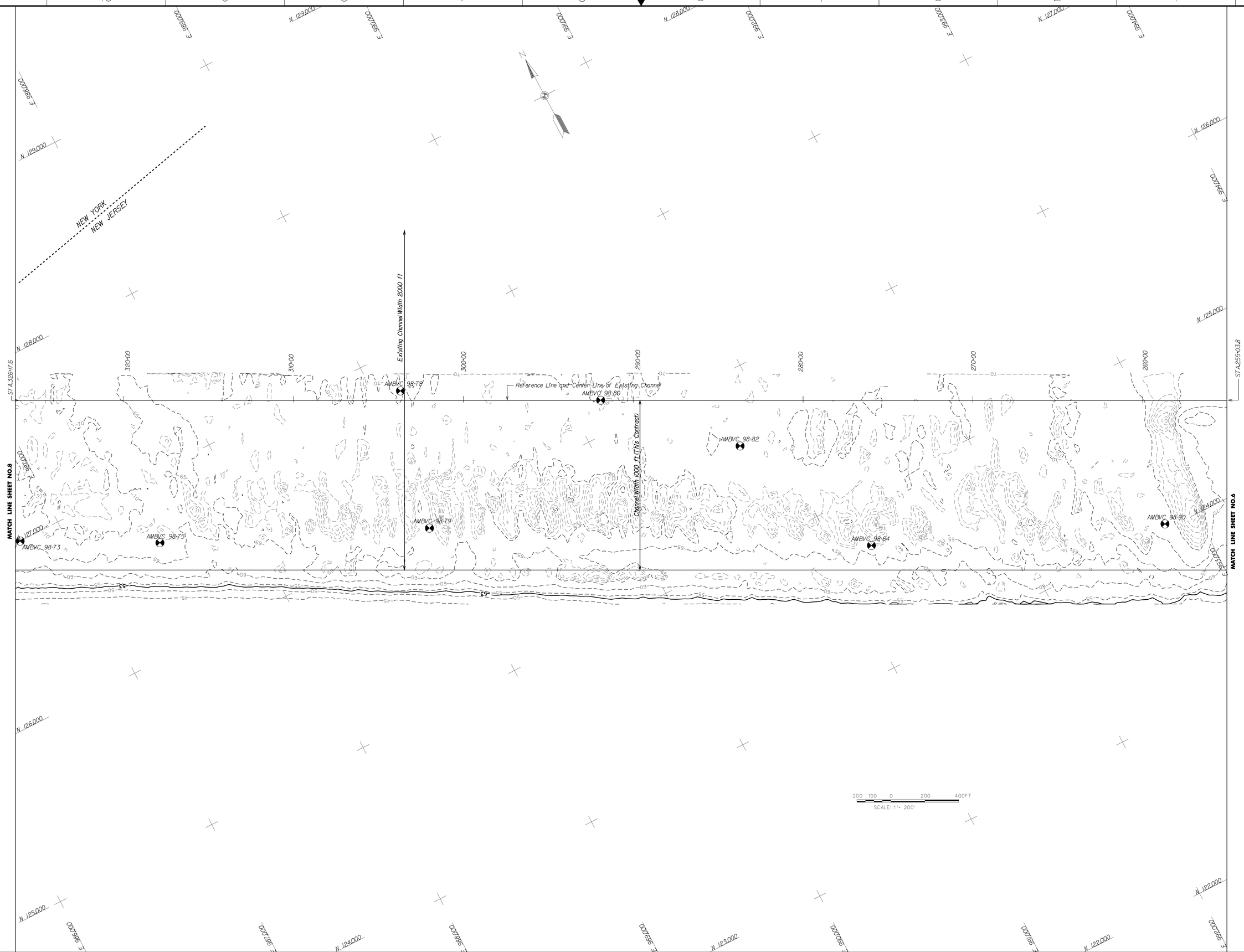

MATCH LINE SHEET NO.6
MATCH LINE SHEET NO.4
STA183+90
STA112+76.5
Existing Channel Width 2000 ft
Channel Width 1000 ft (This Contract)
Reference Line And Center Line of Existing Channel
AMBVC 98-108
AMBVC 98-112
AMBVC 98-116
AMBVC 98-119
AMBVC 98-120
AMBVC 98-122
Required Dredging Depth to EL-53.0
(not Including 1.5 ft Allowable overdepth)
Toe of the Channel
Top of the slope
Note:
For General Notes, see sheet No.1
SCALE: 1"= 200'
US Army Corps of Engineers
New York District
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK
W91205-05-B-0012
NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ANDREWS BEACH CHANNEL
CONTRACT 2
S-AM-1
PLAN SHEET STA112+76.5 TO STA183+90
Sheet reference number:
C-5
Sheet 5 of 35
Revised Allowable overdepth
Date: FEBRUARY 2006
Size: 1
Rev.
Drawing file no.: CC-AMA-S03
Drawing code:
Plot date: 19-JUL-2006 16:24
Plot by: eJenkgs3
Scale: 200000000:1000000
Designed by: Consultants Assegid
Drawn by: G.A.
Checked by:
Reviewed by: G.A.
Submitted by:
File name: S:\Navcon\cad\Windsor\Outlook\crosses Channel\ana_01.dgn


MATCH LINE SHEET NO.7
MATCH LINE SHEET NO.5
STA255+03.8
STA183+90
Existing Channel Width 2000 ft
Channel Width 1000 ft (This Contract)
Center Line of Existing Channel
26" Transcontinental Gas Pipe Line
OPTION (ITEM # 003)
AMBVC 98-94
AMBVC 98-93
AMBVC 98-99
AMBVC 98-101
AMBVC 98-103
AMBVC 98-102
AMB 5WB4
AMB 5WB3
AMB 5WB2
AMB 5WB1
Required Dredging Depth EL-53.0
(not Including 1.5 ft Allowable overdepth)
SCALE: 1" = 200'
US Army Corps of Engineers
New York District
Revised Allowable Overdepth
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK
W912DS-05-B-0012
NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ARTHUR KILL CHANNEL
CONTRACT 2
S-AM-1
PLAN SHEET STA183+90 TO STA255+03.8
Sheet reference number:
C-6
Sheet 6 of 35



US Army Corps of Engineers
New York District

Symbol	Description	Date	Rev.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Photogrammetric Assigned
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:

Date: 19 MAY 2005
Drawing file no.: CC-AM1-307
Drawing code:
Rev date: 19-JUL-2005 16:27
Plot by: eberger3
Scale: 0000000100000

Size:
Rev.

File name: S:\Maccor\pub\Hmacor\Civil\Arcmaps Charts\Arcmap_Plans.mxd

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ARTHUR KILL CHANNEL
CONTRACT 2
S-AM-1

PLAN SHEET STA255+03.8 TO STA326+17.7

Sheet reference number:
C-7
Sheet 7 of 35

Submitted by: eberger3 Plot Date: 19-JUL-2005 16:27
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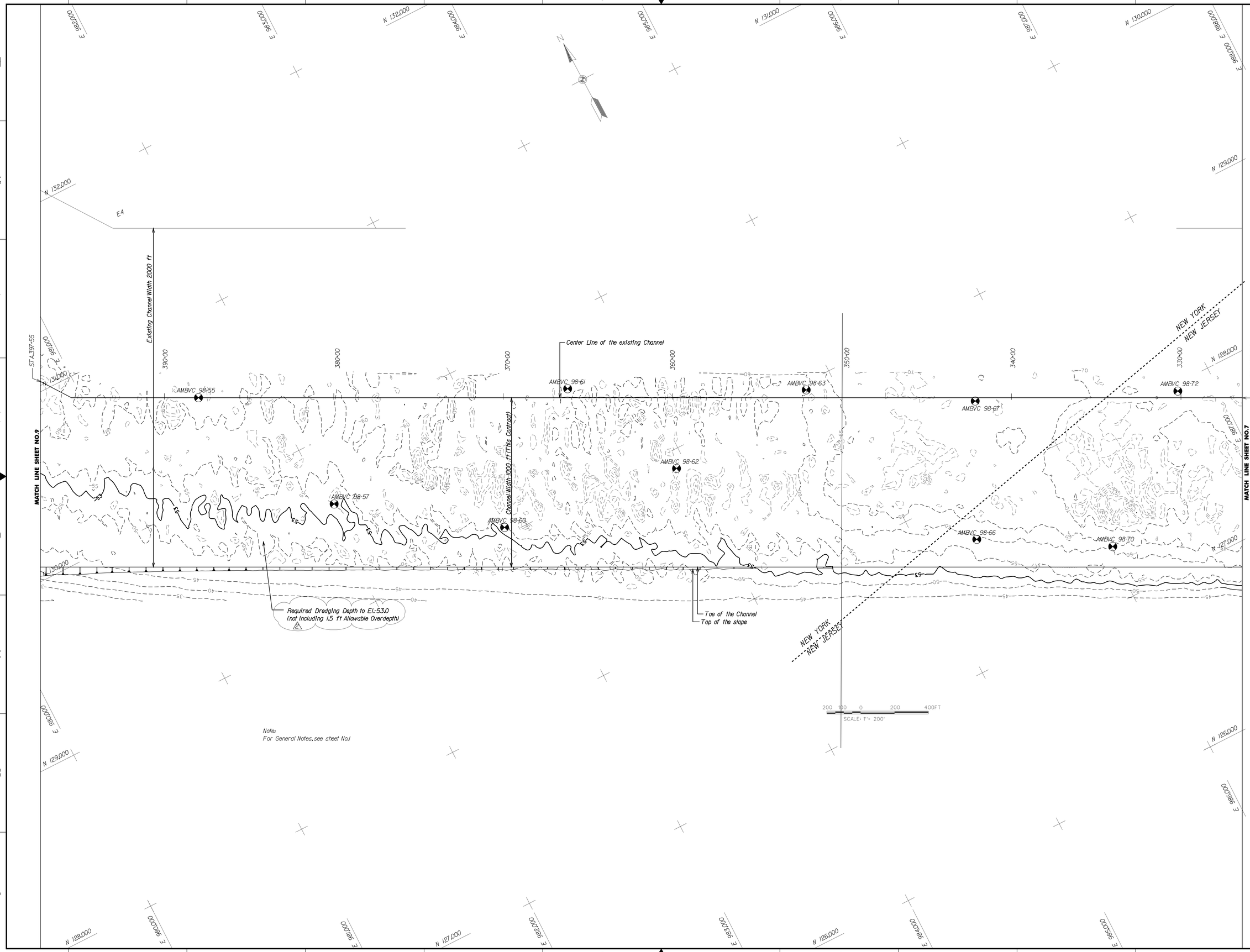


US Army Corps of Engineers
New York District

Symbol	Description	Date	Rev.
△	Revised Allowable Overdepth	7/19/05	G.A.

Designed by: Geographic Engineer
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:
Date: MAY 2005
Drawing file no: CC-AM-348
Drawing code:
Plot date: 19-JUL-2005 16:28
Plot by: sbendgal
Scale: 20000000:1000000
Size: I
Rev: -

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

File name: S:\Recon\Left\Hirtenon\Oak\Hirtenon Channel\Arts_Pl.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

PLAN SHEET STA.326+17.7 TO STA.397+55

Sheet reference number:
C-8
Sheet 8 of 35

Submitted by: sbendgal
Plot Date: 19-JUL-2005 16:28

US Army Corps of Engineers
New York District

Rev.	Description	Date	Appr.
1	Revised Allowable Overdepth	7/19/05	G.A.

Date: 19 MAY 2005
Size: Rev.
Designed by: Dwg/Engr: Assegid
Drn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:
Drawing file no.: CC-AM1-309
Drawing code:
Plot date: 19-JUL-2005 16:28
Plot by: eAssegid
Scale: 20050000-00000
File name: E:\Revcom\Jobf\Hinkley\Jobf\Arcfiles\ChannelArea_P1.dgn

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

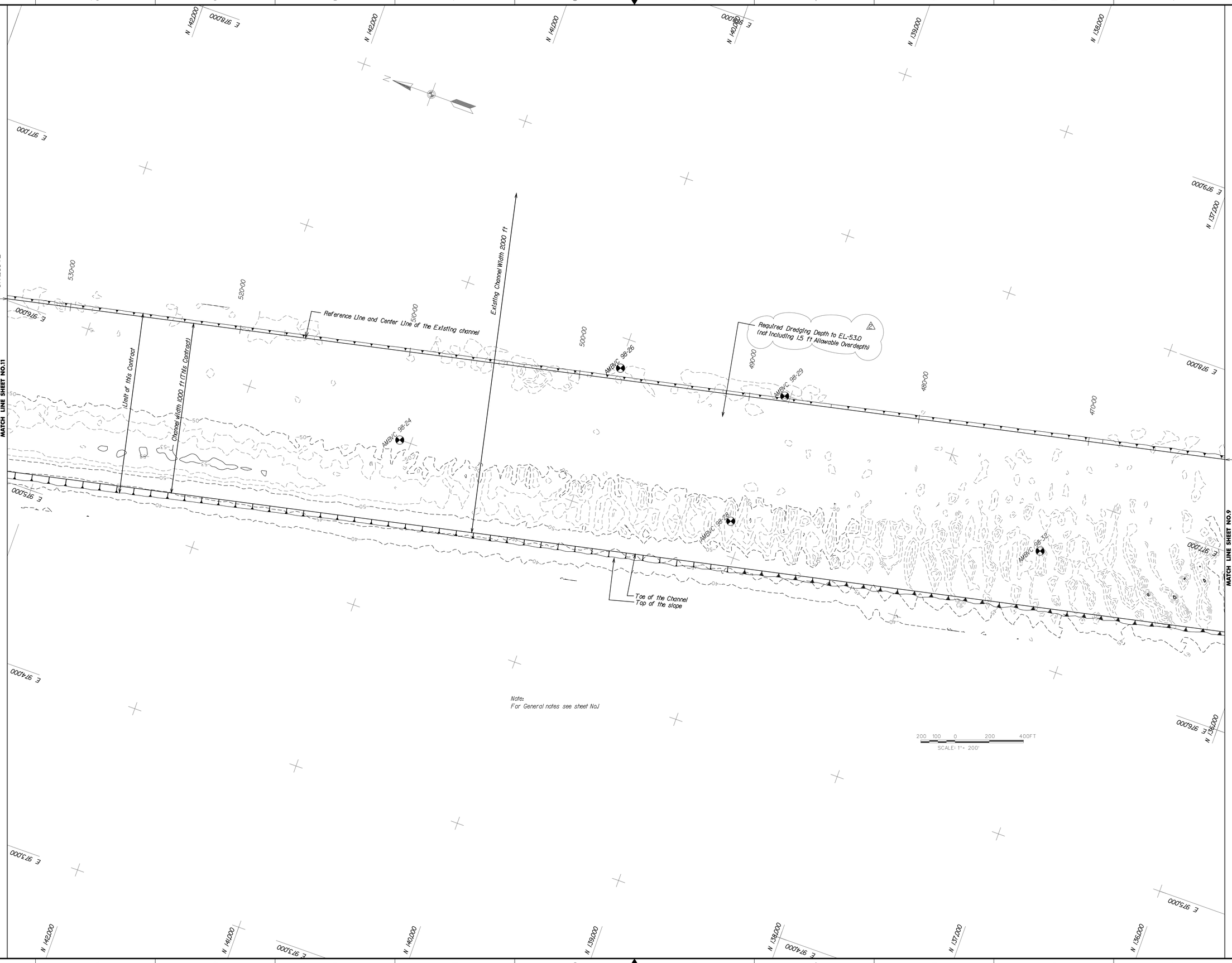
W912DS-05-B-0012

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

PLAN SHEET STA.397+55 TO STA.461+97

Sheet reference number:
C-9
Sheet 9 of 35

Submitted by: eAssegid3
Plot Date: 19-JUL-2005 16:29
Spatial-name:J:\jobf\Hinkley\Jobf\Arcfiles\ChannelArea_P1.dgn



US Army Corps of Engineers
New York District

Rev.	Date	Description	Checked
A	7/29/08	Revised Allowable Overdepth	G.A.

Designed by: Geographic Analyst
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:
Date: 19 MAY 2006
Drawing file no: CC-AM1-310
Drawing code:
Plot date: 19 JUL 2006 16:30
Plot by:
Scale: 200.0000:0.0000
Size: 1
Rev: 1
File name: S:\Recent\Jeff\Hotsor\Oct\Hotsor Channel\Arch_Plt.dgn

U.S. ARMY ENGINEER DISTRICT
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NEW YORK, NEW YORK

W912DS-05-B-0012

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

PLAN SHEET STA.461+97 TO STA.533+72

Sheet reference number:
C-10
Sheet 10 of 35

Submitted by: eBendgs3
Plot Date: 19-JUL-2006 16:30
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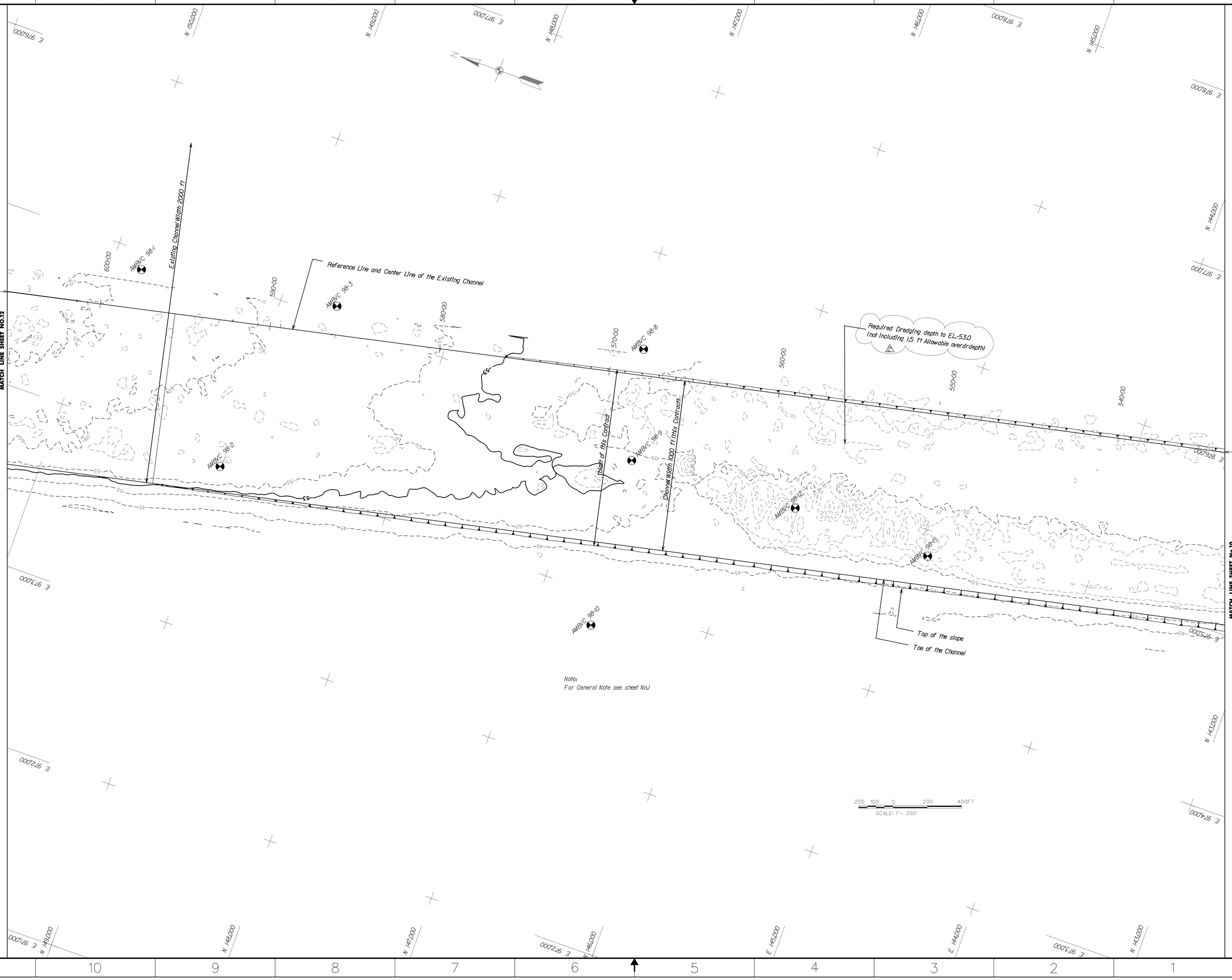

Sheet reference number: C-11
Sheet 11 of 35

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1
PLAN SHEET STA533+72 TO STA605+48.7

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Chandragupta Assagod
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:
Date: 19 MAY 2005
Scale: 1"
Rev.
Drawing file no.: CC-AM1-211
Drawing code:
Plot date: 19 JUL 2005 16:31
Plot by: eSandg3
Date: 20050608150000

File name: S:\Navcon\Jobs\Hydro\Cad\Ambrose Channel\Arts_Pltsgn

Symbol	Description	Date	By
A	Revised Allowable Overdepth	7/19/05	G.A.

Submitted by: eSandg3 Plot Date: (19-JUL-2005 16:31)
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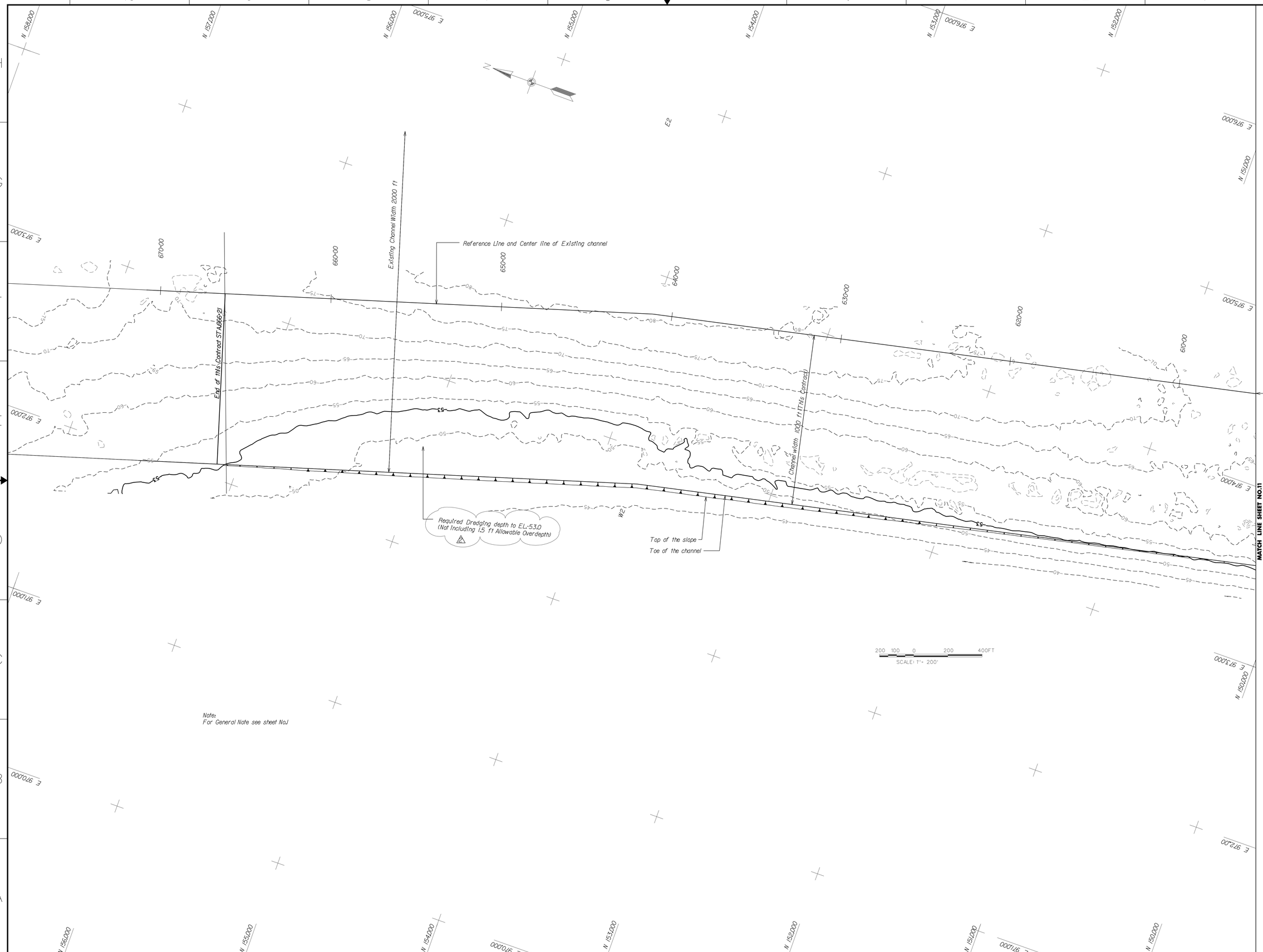


US Army Corps of Engineers
New York District

Date	Description	Drawn	Chk'd
7/19/05	Revised Allowable Overdepth	G.A.	Peer

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Geographic Support
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:
Date: 19 MAY 2005
Drawing file no: CC-AM1-313
Drawing code:
Plot date: 19-JUL-2005 16:22
File by: dbenge3
Size: I
Rev: -
File name: S:\Navcon\Cad\Navigation\Contract\Hardpan Channel\Arch_Plt.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ANCHORAGES CHANNEL
CONTRACT 2
S-AM-1

PLAN SHEET STA605+48.7 TO STA666+00

Sheet reference number:
C-12
Sheet 12 of 35

Submitted by: dbenge3
Plot Date: 19-JUL-2005 16:22
S:\Navcon\Cad\Navigation\Contract\Hardpan Channel\Arch_Plt.dgn

Note:
For General Notes ,see sheet No.1

US Army Corps of Engineers
New York District

Rev.	Date	Description	Drawn
A	7/19/05	Allowable Overdepth Is Revised to 1.5 ft and unpaid allowable1.5 ft overdepth Is revised to EL-55.0	G.A.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Chengsheng Assigid
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:

Date: JANUARY 2005
Scale: 1
Rev.
Drawing file no: cc-ak-sa
Drawing code:
Plot date: 19-JUL-2005 16:32
File by: clamdgat
Date: 20050000100000

File name: S:\Benson\arch\History\Cont\Arcrose Channel\arch_c.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ARTHUR KILL CHANNEL
CONTRACT 2
S-AM-1

CROSS SECTIONS STA.2400 TO STA.5600

Sheet reference number:
C-13
Sheet 13 of 35

Plot Date: 19-JUL-2005 16:32
Submitted by: e3andg3
S:\Benson\arch\History\Cont\Arcrose Channel\arch_c.dgn

LEGEND

Undisturbed Earth

200 100 0 200 400FT

HORIZONTAL SCALE SCALE: 1"= 200'

20 10 0 20 40FT

VERTICAL SCALE: 1"= 20'

Note:
For General Notes ,see sheet No1

US Army Corps of Engineers
New York District

Symbol	Description	Date	Rev.
2	Allowable overdepth is Revised to EL-44.5 and Unpaid maximum 5 ft allowable overdepth is revised to EL-55.0	7/19/05	G.A.

Designed by: Geographic Analysts
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:
Date: 19 MAY 2005
Drawing file no.: CC-446-314
Drawing code:
Plot date: 19-JUL-2005 16:32
Plot by: dbendgal
Date: 20050508.100000

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

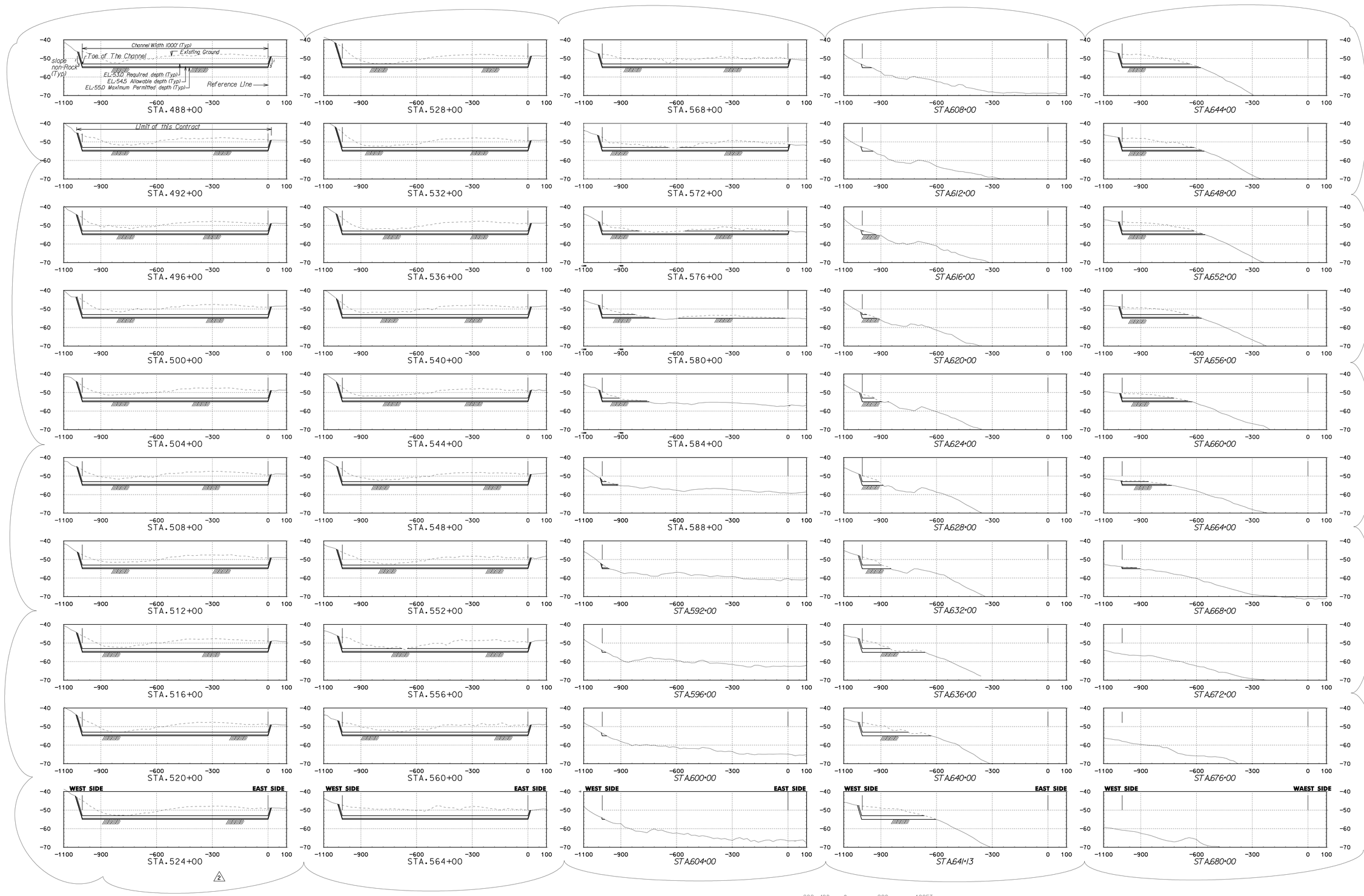
File name: S:\Navcon\Cad\Arthur Kill\Arthur Cove\Contracts\C-Dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ARTHUR KILL CHANNEL
CONTRACT 2
S-AM-1

CROSS SECTIONS STA.336+00 TO STA.484+00

Sheet reference number:
C-14
Sheet 14 of 35

Plot Date: 19-JUL-2005 16:32
Submitted by: dbendgal
S:\Navcon\Cad\Arthur Kill\Arthur Cove\Contracts\C-Dgn



LEGEND

Undisturbed

Note:
For General Notes, see sheet No1

200 100 0 200 400FT
HORIZONTAL SCALE: 1"= 200'

20 10 0 20 40FT
VERTICAL SCALE: 1"= 20'

US Army Corps of Engineers
New York District

Rev.	Date	Description	Drawn	Appd.
2	7/19/06	Allowable overdepth is revised to EL-545 and Maximum 1.5 ft) unpaid allowable overdepth is revised to EL-550	G.A.	

Date: JANUARY 2005
Drawing file no: ec4ab.dgn
Drawing code:
Plot date: 19-JUL-2006 16:32
Plot by:
Size: D
Rev: 1

Designed by: Dangayne Aseppol
Dwn by: G.A.
Ckd by:
Reviewed by: G.A.
Submitted by:

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

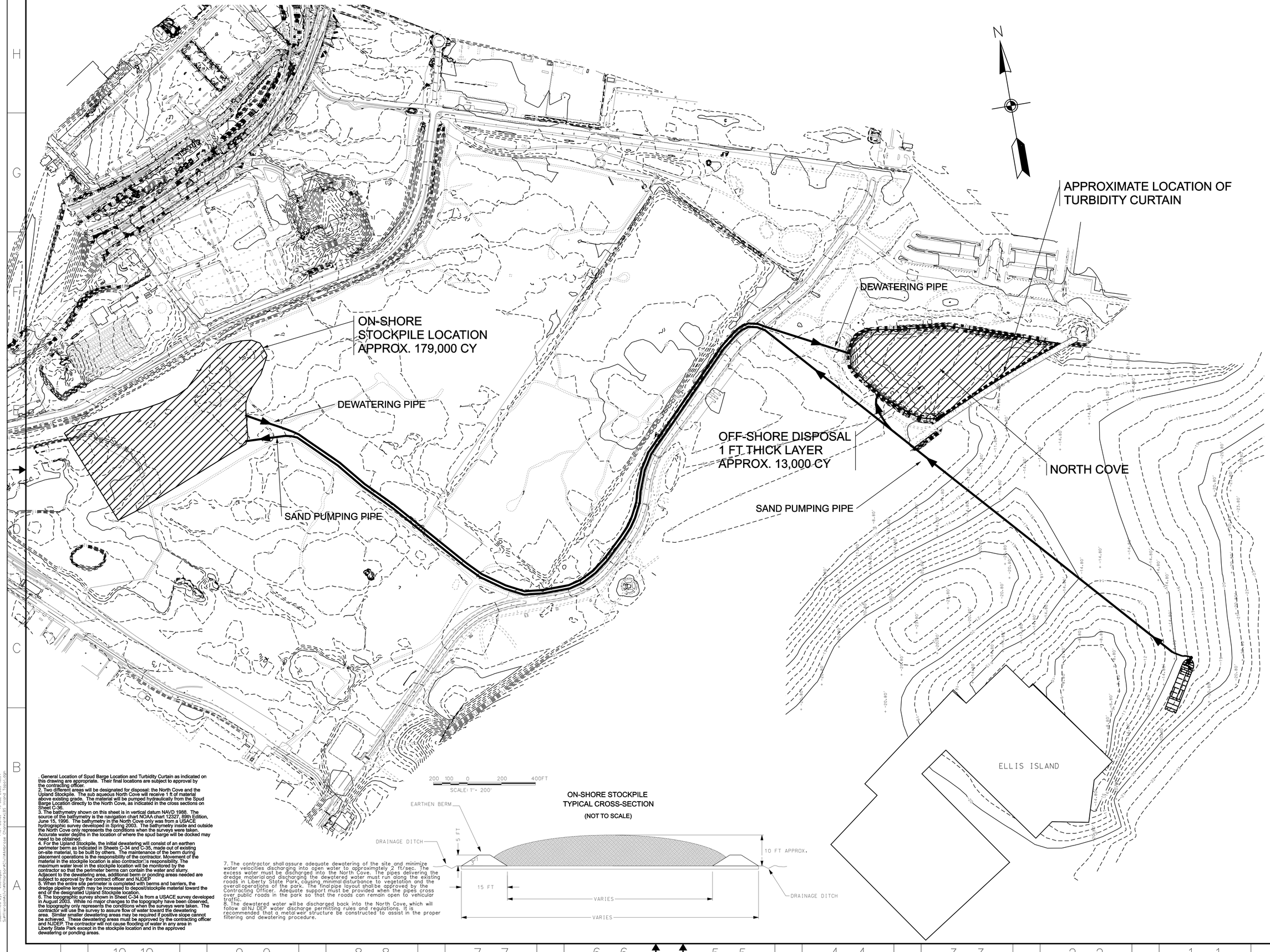
File name: S:\Revision\arch\Hinsley\Cad\Arcadia Channel\arch_c2.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ARTHUR KILL CHANNEL
CONTRACT 2
S-AM-1

CROSS SECTIONS STA.488+00 TO STA.680+00

Sheet reference number:
C-15
Sheet 15 of 35

Submitted by: e3andg3
Plot Date: 19-JUL-2006 16:32
S:\Hinsley\Cad\Arcadia Channel\arch_c2.dgn



General Location of Spud Barge Location and Turbidity Curtain as indicated on this drawing are appropriate. Their final locations are subject to approval by the contracting officer.
2. Two different areas will be designated for disposal: the North Cove and the Upland Stockpile. The sub aqueous North Cove will receive 1 ft of material above existing grade. The material will be pumped hydraulically from the Spud Barge Location directly to the North Cove, as indicated in the cross sections on Sheet C-36.
3. The bathymetry shown on this sheet is in vertical datum NAVD 1988. The source of the bathymetry is the navigation chart NOAA chart 12327, 89th Edition, June 15, 1996. The bathymetry in the North Cove only was from a USACE hydrographic survey developed in Spring 2003. The bathymetry inside and outside the North Cove only represents the conditions when the surveys were taken. Accurate water depths in the location of where the spud barge will be docked may need to be obtained.
4. For the Upland Stockpile, the initial dewatering will consist of an earthen perimeter berm as indicated in Sheets C-34 and C-35, made out of existing on-site material, to be built by others. The maintenance of the berm during placement operations is the responsibility of the contractor. Movement of the material in the stockpile location is also contractor's responsibility. The maximum water level in the stockpile location will be monitored by the contractor so that the perimeter berms can contain the water and slurry. Adjacent to the dewatering area, additional berm or ponding areas needed are subject to approval by the contract officer and NJDEP
5. When the entire site perimeter is completed with berms and barriers, the dredge pipeline length may be increased to depositstockpile material toward the end of the designated Upland Stockpile location.
6. The topographic survey shown in Sheet C-34 is from a USACE survey developed in August 2003. While no major changes to the topography have been observed, the topography only represents the conditions when the surveys were taken. The contractor will use the survey to assure flow of water toward the dewatering area. Similar smaller dewatering areas may be required if positive slope cannot be achieved. These dewatering areas must be approved by the contracting officer and NJDEP. The contractor will not cause flooding of water in any area in Liberty State Park except in the stockpile location and in the approved dewatering or ponding areas.

200 100 0 200 400FT

SCALE: 1"= 200'

ON-SHORE STOCKPILE TYPICAL CROSS-SECTION

(NOT TO SCALE)

7. The contractor shall assure adequate dewatering of the site and minimize water velocities discharging into open water to approximately 2 ft/sec. The excess water must be discharged into the North Cove. The pipes delivering the dredge material and discharging the dewatered water must run along the existing roads in Liberty State Park, causing minimal disturbance to vegetation and the overall operations of the park. The final pipe layout shall be approved by the Contracting Officer. Adequate support must be provided when the pipes cross over public roads in the park so that the roads can remain open to vehicular traffic.
8. The dewatered water will be discharged back into the North Cove, which will follow all NJ DEP water discharge permitting rules and regulations. It is recommended that a metal weir structure be constructed to assist in the proper filtering and dewatering procedure.

US Army Corps of Engineers
New York District

Symbol	Description	Date	Appr.

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NEW YORK, NEW YORK

Designed by: Designer
Drawn by: Drafter
Checked by: Checker
Cost by:
Reviewed by: Reviewer
Submitted by:

Date: 09 MAY 2005
Drawing file no: 200.00000.00000
Scale: 200.00000.00000
Drawing code:
Plot date: 9-JUL-2005 16:34
Plot by: eSendga3
Date: 200.00000.00000

File name: S:\Resources\Arch\Harbor\Cleh\Hudson Channel\LIB\ Intern\ Topo.dgn

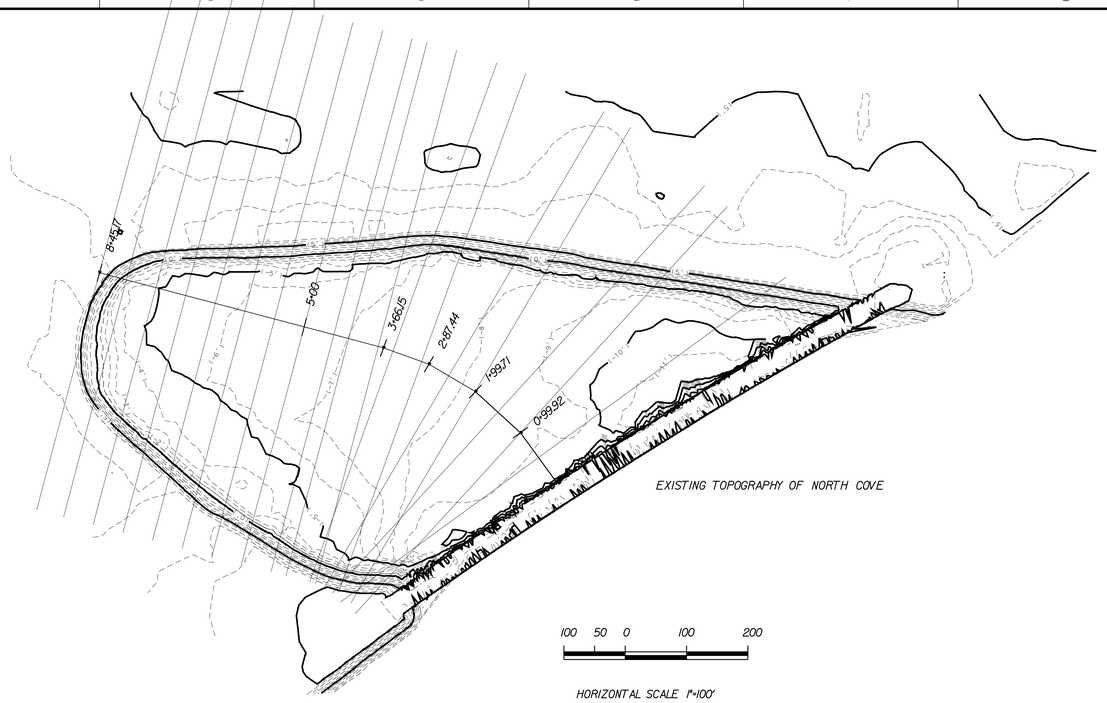
W912DS-05-B-0012

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
AMBROSE CHANNEL
CONTRACT 2
S-AM-1

LIBERTY STATE PARK
EXISTING TOPOGRAPHY &
BATHYMETRY

Sheet reference number: C-34
Sheet number: Sheet 34 of 35

Submitted by: eSendga3
S:\Resources\Arch\Harbor\Cleh\Hudson Channel\LIB\ Intern\ Topo.dgn
Plot Date: 9-JUL-2005 16:34

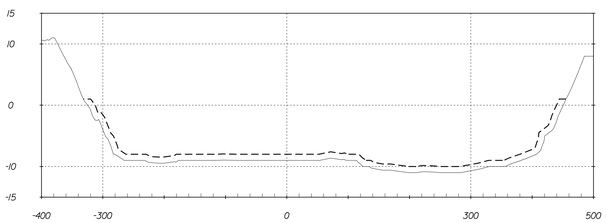


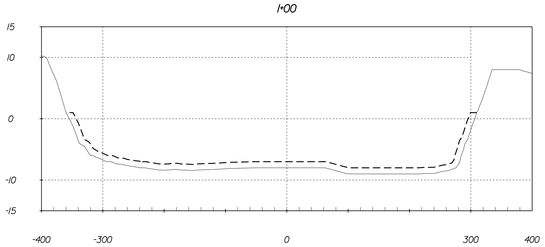
EXISTING TOPOGRAPHY OF NORTH COVE

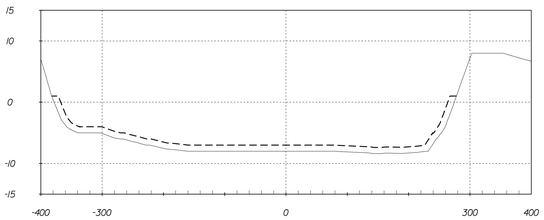
100 50 0 100 200

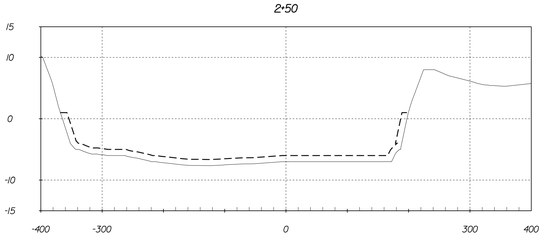
HORIZONTAL SCALE 1"=100'

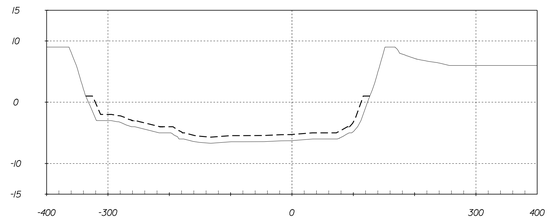
FOR GENERAL NOTES SEE SHEET NO.34

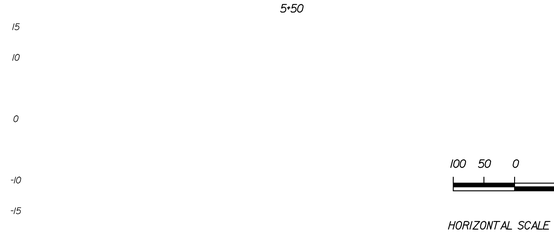


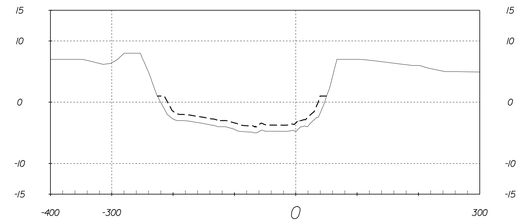


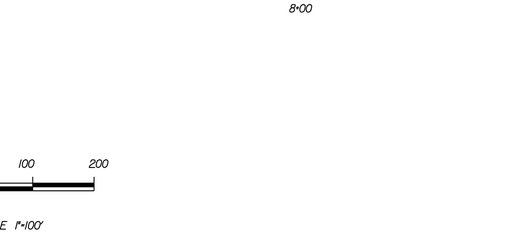












100 50 0 100 200

HORIZONTAL SCALE 1"=100'

10 5 0 10 20

VERTICAL SCALE 1"=10'

US Army Corps of Engineers
New York District

Rev.	Date	Description

Reference Lines and Cross Sections

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

W912DS-05-B-0012

Designed by: Photogrammetry Assigned
Dwn by: GA
Ckd by:
Reviewed by: GA
Submitted by:
Date: 19 MAY 2005
Drawing file no.:
Drawing code:
Rev date: 19-JUL-2005 16:33
Plot by: eberegal
Scale: 0x0000x0.0000
Size:
Rev.

File name: S:\Benson\pdf\Hilmar\Cdrf\Arbroze Channel\North Cove.dgn

NEW YORK HARBOR
CHANNEL NAVIGATION IMPROVEMENT 50 FT PROJECT
ARBROSE CHANNEL
CONTRACT 2
S-AM-1

TOPOGRAPHY OF NORTH COVE
LOCATIONS AND CROSS SECTIONS

Sheet reference number:
C-35
Sheet 35 of 35

Submitted by: eberegal3
Sa:\Benson\pdf\Hilmar\Arbroze Channel\North Cove.dgn
Plot Date: 19-JUL-2005 16:33