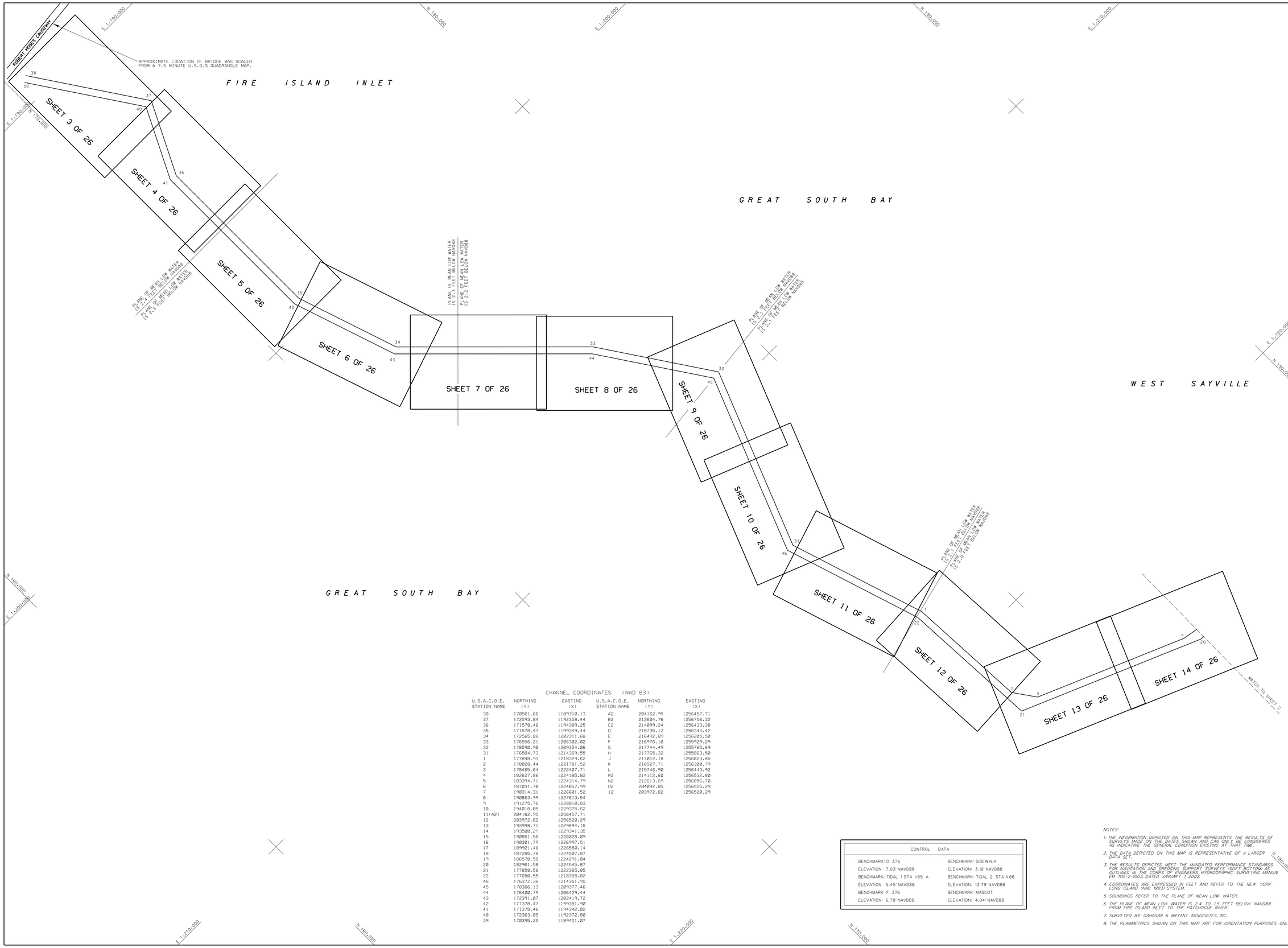
CORPS OF ENGINEERS

U. S. ARMY



CHANNEL COORDINATES (NAD 83)

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)	U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
38	170561.66	1189310.13	A2	204162.95	1256457.71
37	172593.84	1192358.44	B2	212604.76	1256756.32
36	171578.46	1194389.25	C2	214094.24	1256433.38
35	171578.47	1199349.44	D	215735.12	1256344.42
34	172565.88	1202311.68	E	216492.89	1256205.50
33	176556.21	1206302.02	F	216976.10	1255929.29
32	178590.90	1209354.86	G	217744.49	1255765.69
31	176584.73	1214369.55	H	217765.32	1255863.50
1	177848.93	1218329.62	J	217012.18	1256023.85
2	178028.44	1221781.52	K	216527.71	1256300.79
3	178465.64	1222407.71	L	215746.90	1256443.92
4	182627.86	1224185.82	M2	214112.60	1256532.80
5	183394.71	1224314.79	N2	212613.69	1256856.70
6	187031.78	1224057.99	O2	204092.85	1256555.29
7	190314.31	1226601.52	I2	203972.82	1256520.29
8	190863.99	1227613.54			
9	191275.76	1228010.83			
10	194018.85	1229375.62			
11(A2)	204162.95	1256457.71			
12	203972.82	1256520.29			
13	193998.71	1229894.15			
14	193500.29	1229341.35			
15	190861.56	1228028.89			
16	190301.79	1226997.51			
17	189921.46	1226550.14			
18	187285.78	1224587.87			
19	186570.58	1224291.84			
20	182961.58	1224545.87			
21	177858.56	1222365.85			
22	177650.55	1218365.82			
46	176372.36	1214361.95			
45	178366.13	1209377.46			
44	176400.79	1206429.44			
43	172391.07	1202419.72			
42	171378.47	1199381.90			
41	171378.46	1194342.02			
40	172363.85	1192372.80			
39	170395.25	1189421.07			

CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II65 A	BENCHMARK: TIDAL 2 STA II66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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4. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW YORK LONG ISLAND (NAD 1983) SYSTEM.
5. SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER.
6. THE PLANE OF MEAN LOW WATER IS 2.4 TO 1.5 FEET BELOW NAVD88 FROM FIRE ISLAND INLET TO THE PATCHOGUE RIVER.
7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
8. THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
MARINE ENGINEERS
CONSULTING ENGINEERS
CENTERTITLE SQUARE
NEW YORK, NEW YORK 10007-1195
TEL: (212)425-2448 FAX: (212)425-9218
WWW.GAHAGANBRYANT.COM

DATES OF SURVEY: JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE: ONE INCH = 1,000 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MORLA — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

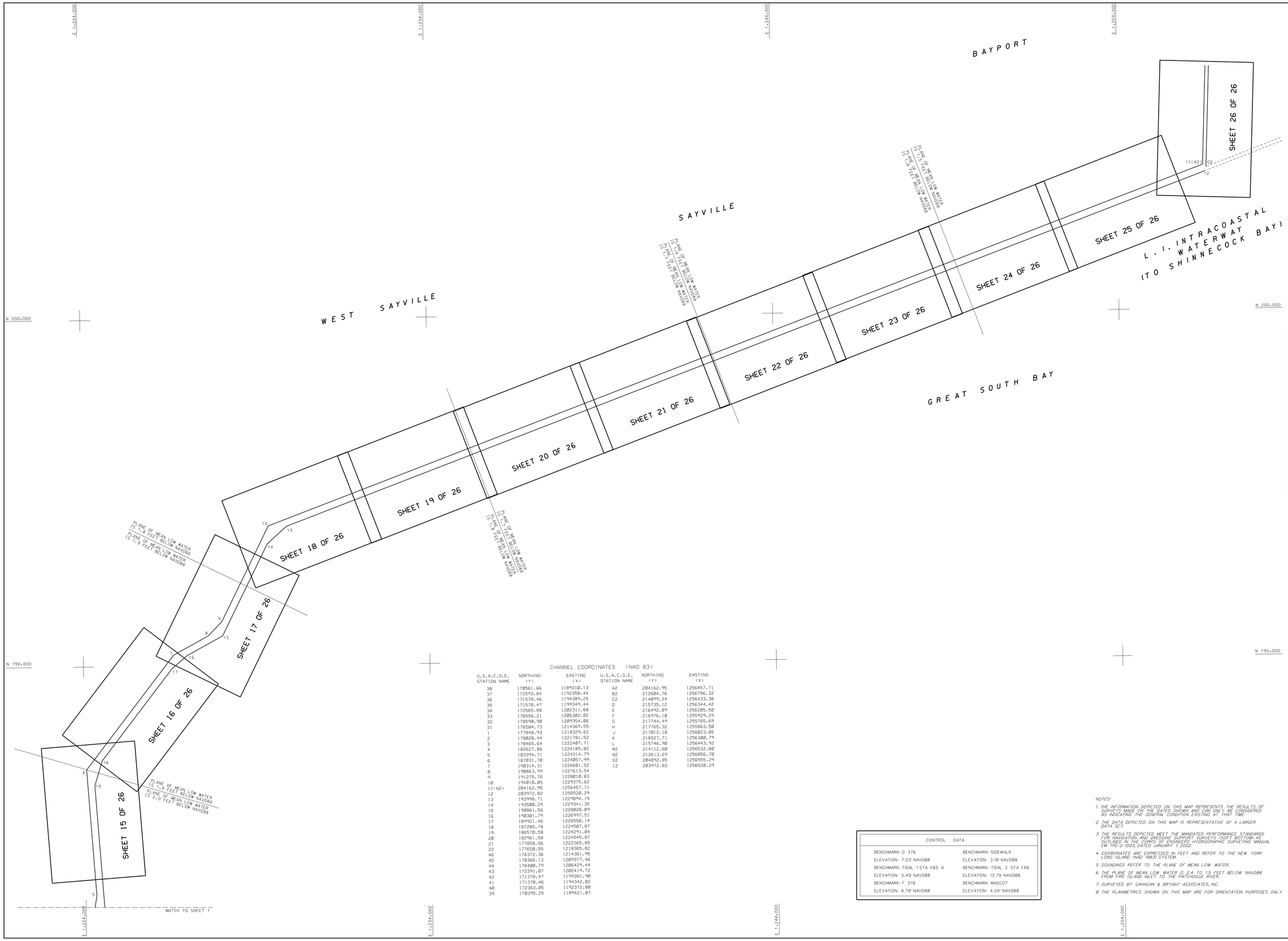
VH-101

SHEET 1 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



CHANNEL COORDINATES (NAD 83)

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)	U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
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11(A2)	204162.95	1256457.71			
12	203972.82	1256520.29			
13	193998.71	1229894.15			
14	193500.29	1229341.35			
15	190861.56	1228028.09			
16	190301.79	1226997.51			
17	189921.46	1226550.14			
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19	186570.58	1224291.84			
20	182961.58	1224545.87			
21	177858.56	1222365.85			
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41	171378.46	1194342.02			
40	172363.05	1192372.80			
39	170395.25	1189421.07			

CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA #65 A	BENCHMARK: TIDAL 2 STA #66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
MARINE ENGINEERS & SURVEYORS
CENTERVILLE SQUARE
WILMINGTON, DELAWARE 19807-1195
TEL: (302)652-4448 FAX: (302)655-9218
WWW.GAHAGANANDBRYANT.COM

DATES OF SURVEY: JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE: ONE INCH = 1,000 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

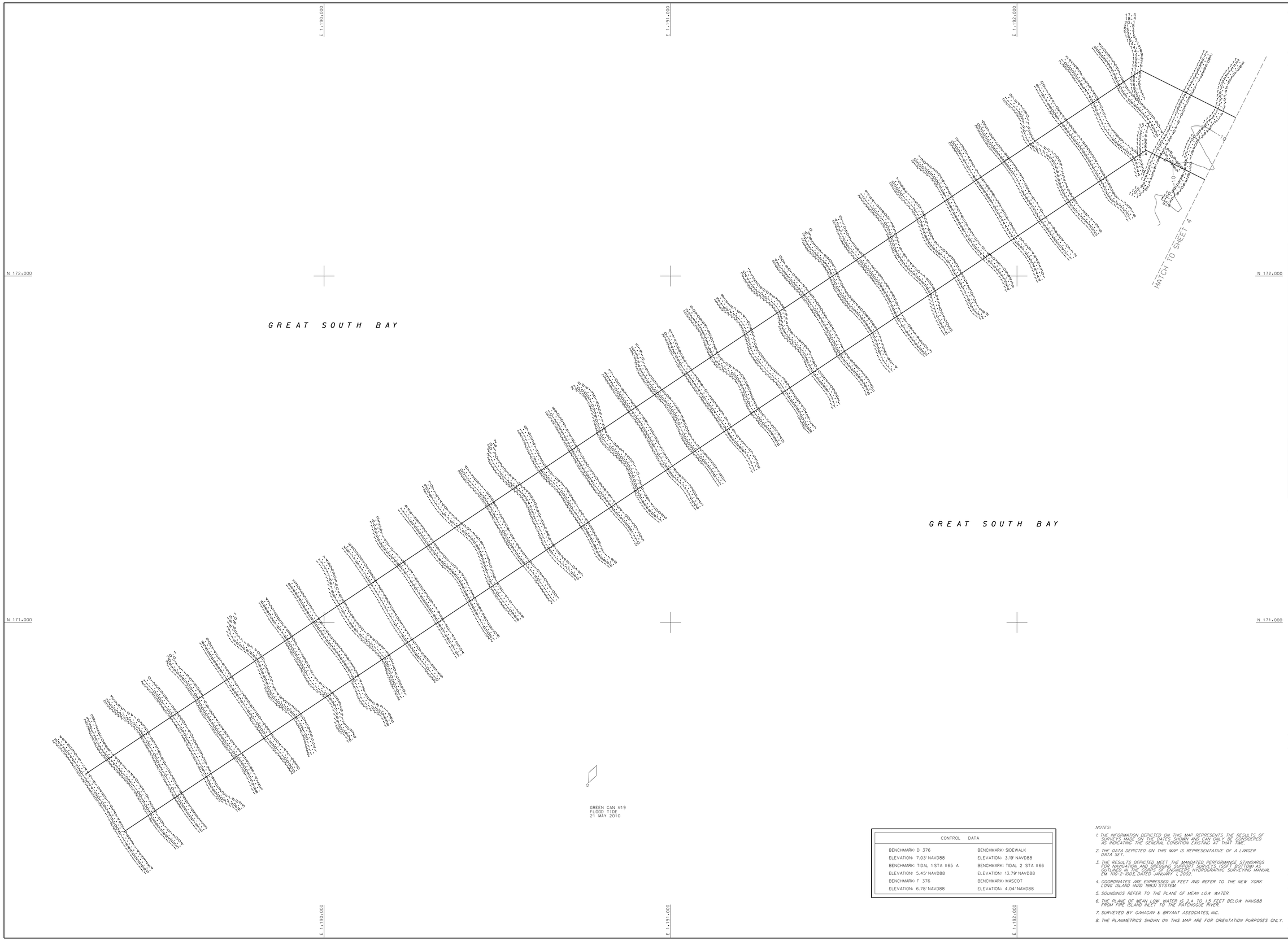
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

VH-101

SHEET 2 OF 26

89
3536



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA 1165 A	BENCHMARK: TIDAL 2 STA 1166
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
MARINE SURVEYORS
CONSULTING ENGINEERS
CENTERSTATE SQUARE
ALBANY, NEW YORK 12207
TEL: 1.518.463.4448 FAX: 1.518.455-9218
WWW.GBASURVEYORS.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — CHIEF, SURVEY SECTION
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CHIEF, CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

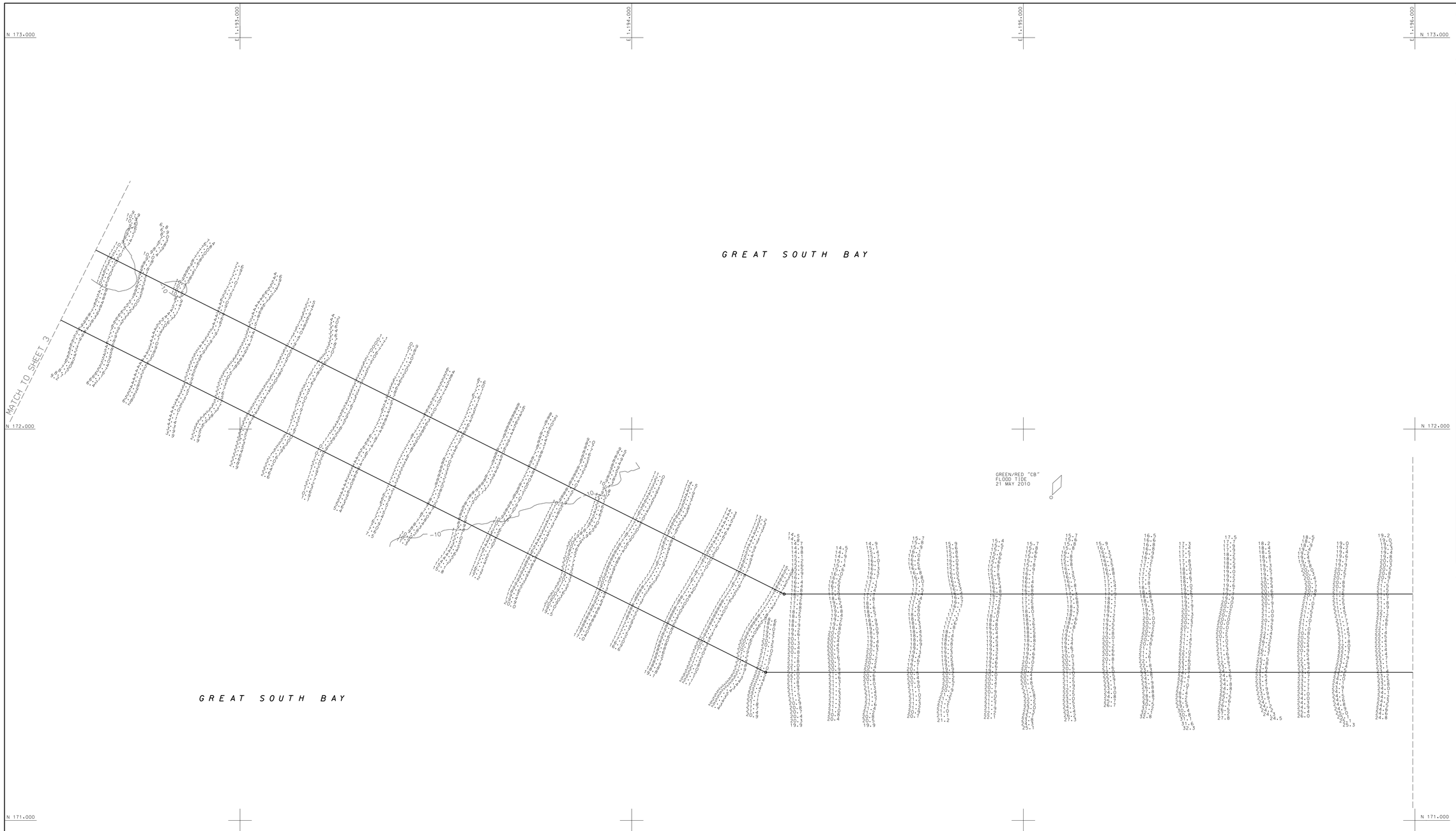
VH-101

SHEET 3 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II65 A	BENCHMARK: TIDAL 2 STA II66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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6. THE PLANE OF MEAN LOW WATER IS 2.4 TO 1.5 FEET BELOW NAVD88 FROM FIRE ISLAND INLET TO THE PATCHOGUE RIVER.
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8. THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERS ★ SURVEYORS
GAHAGAN & BRYANT ASSOCIATES, INC.
GEOTECHNICAL & MARINE
CONSULTING ENGINEERS
TEL. (302)652-4448 FAX. (302)655-9218
E-MAIL: GBA@GBA-INC.COM
WWW.GBA-INC.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MIRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

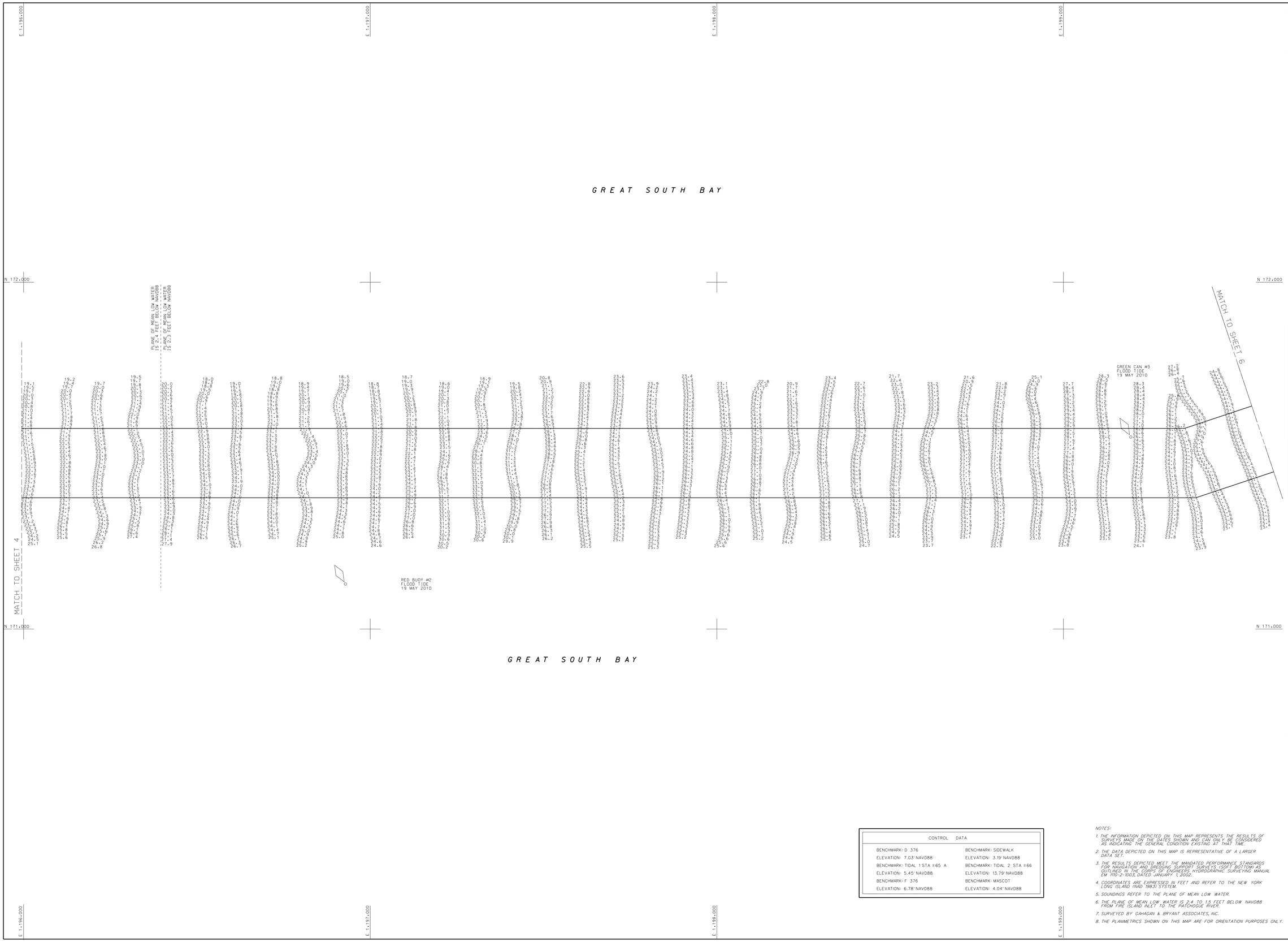
VH-101

SHEET 4 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA #65 A	BENCHMARK: TIDAL 2 STA #66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GAHAGAN & BRYANT ASSOCIATES, INC.
ENGINEERS ★ SURVEYORS
GAHAGAN & BRYANT ASSOCIATES, INC.
1 LONG ISLAND AVENUE
CENTRALIA SQUARE
BAY SHORE, NEW YORK 11706
TEL: (631)665-4448 FAX: (631)665-9218
NAVD88@GBA-ASSOCIATES.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

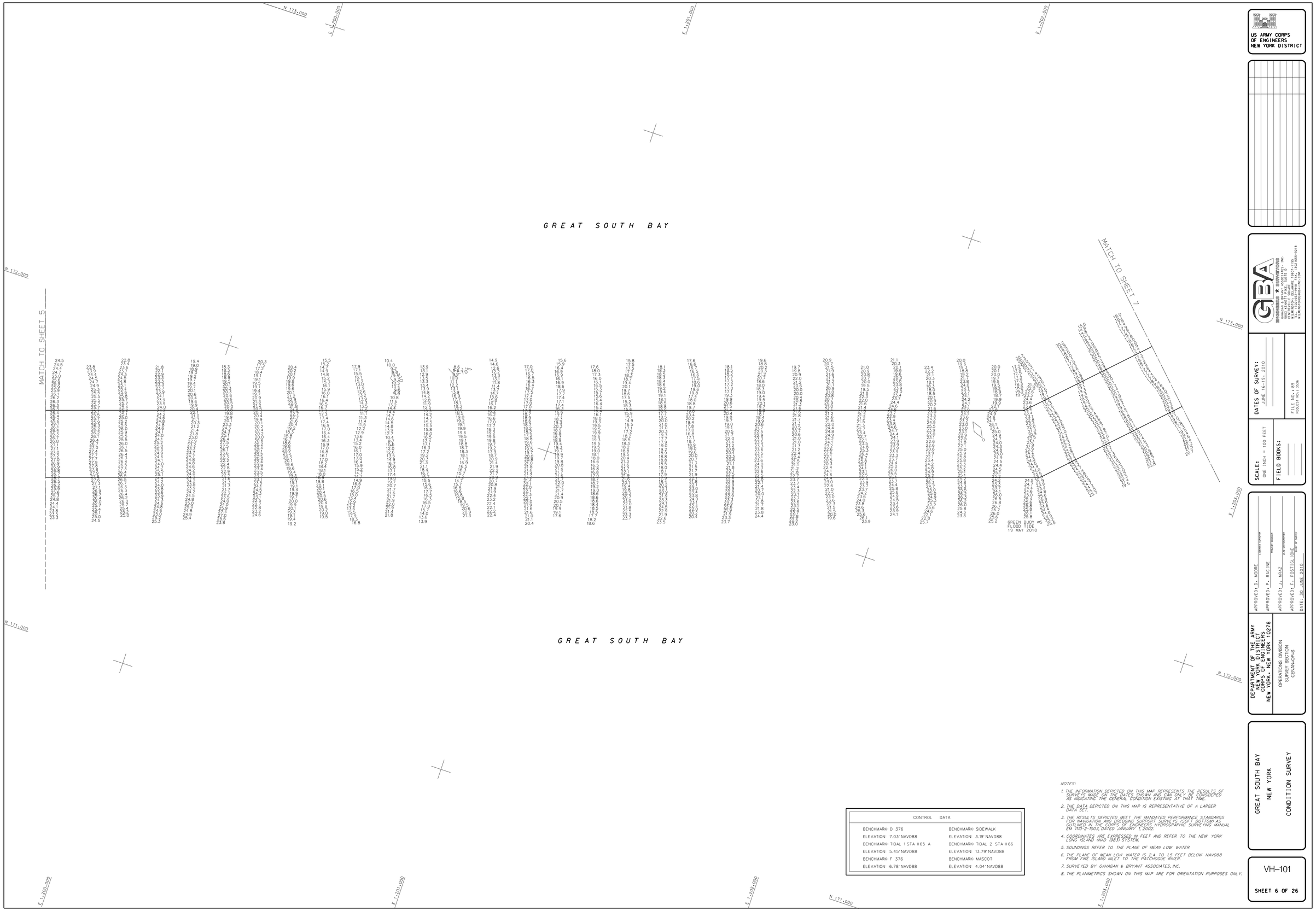
VH-101

SHEET 5 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



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CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II 65 A	BENCHMARK: TIDAL 2 STA II 66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
151 WALT WHITMAN ROAD
HUNTINGTON STATION, NY 11746
TEL: (631)423-4646 FAX: (631)423-4648
WWW.GAHAGANBRYANT.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
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APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

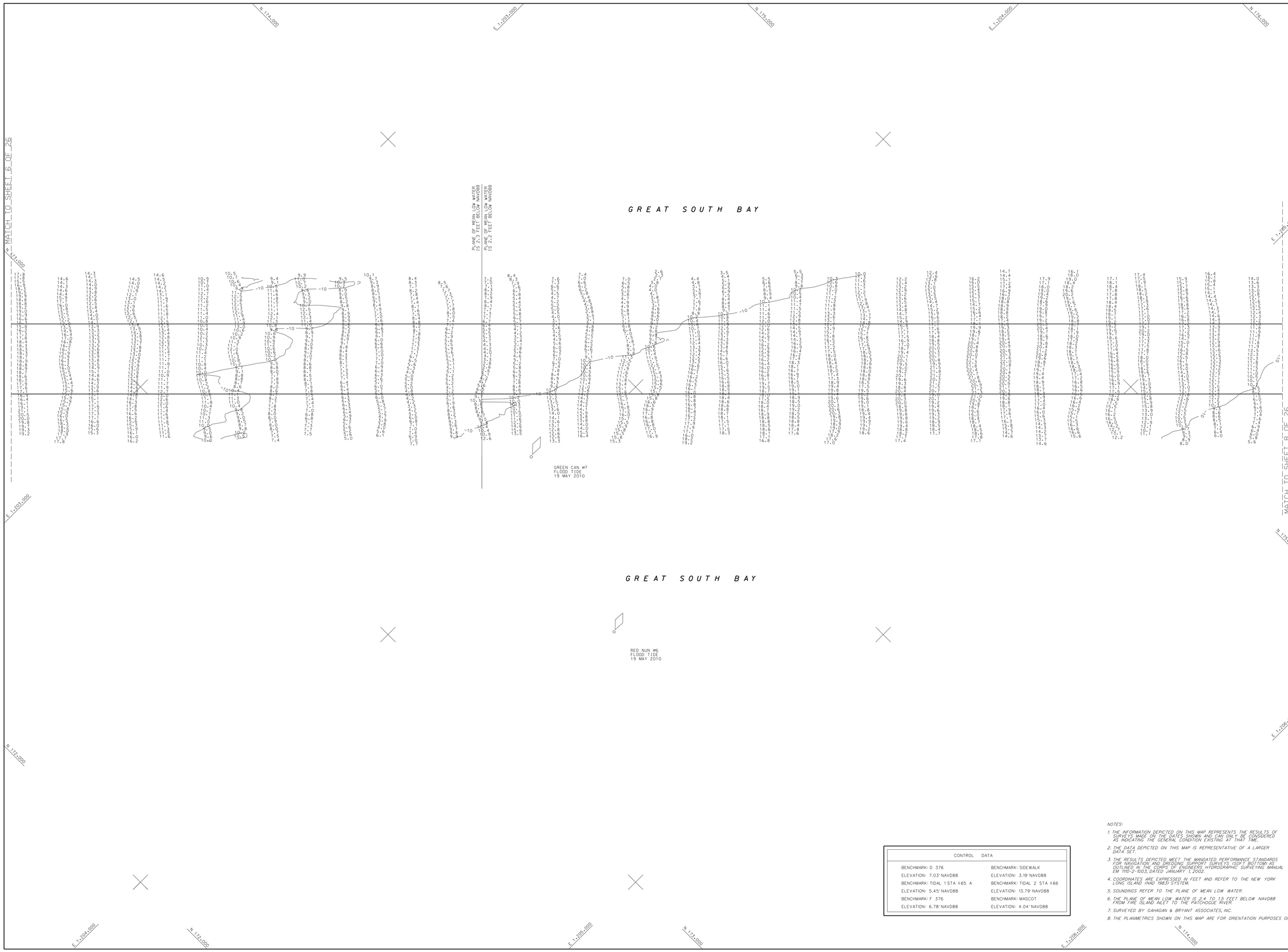
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-N

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

VH-101

SHEET 6 OF 26

89
3536



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA #65 A	BENCHMARK: TIDAL 2 STA #66
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7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
8. THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA GAHAGAN & BRYANT ASSOCIATES, INC. ENGINEERS ★ SURVEYORS
GAHAGAN & BRYANT ASSOCIATES, INC.
1 LIBERTY PLAZA
CENTERSTATE SQUARE
LIVINGSTON, NEW JERSEY 07039
TEL: 1.973.992.9400 FAX: 1.973.992.9418
NJ LICENSE NO. 24GA27960400

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MIRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

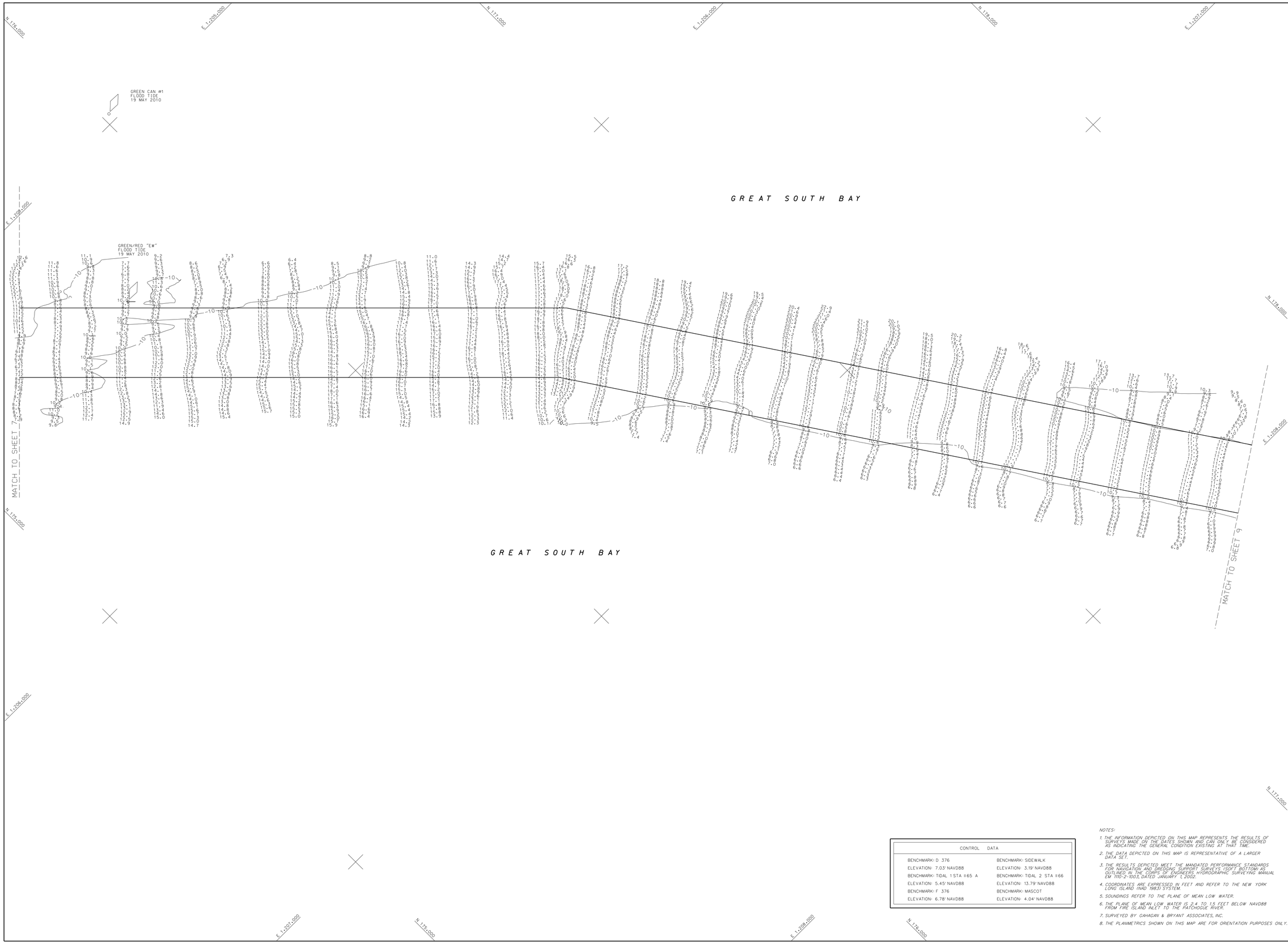
GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

VH-101

SHEET 7 OF 26

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA #65 A	BENCHMARK: TIDAL 2 STA #66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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2. THE DATA DEPICTED ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.
3. THE RESULTS DEPICTED MEET THE MANDATED PERFORMANCE STANDARDS FOR NAVIGATION AND DREDGING SUPPORT SURVEYS (SDFT BOTTOM) AS OUTLINED IN THE CORPS OF ENGINEERS HYDROGRAPHIC SURVEYING MANUAL EM 1110-2-1003, DATED JANUARY 1, 2002.
4. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW YORK LONG ISLAND (NAD 1983) SYSTEM.
5. SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER.
6. THE PLANE OF MEAN LOW WATER IS 2.4 TO 1.5 FEET BELOW NAVD88 FROM FIRE ISLAND INLET TO THE PATCHOGUE RIVER.
7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
8. THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
1 HUDSON STREET, SUITE 1
CONVENTILLE COURT
TEL: 1.732.625-4448 FAX: 1.732.625-9218
NJ LAND SURVEYING CERTIFICATE

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MIRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

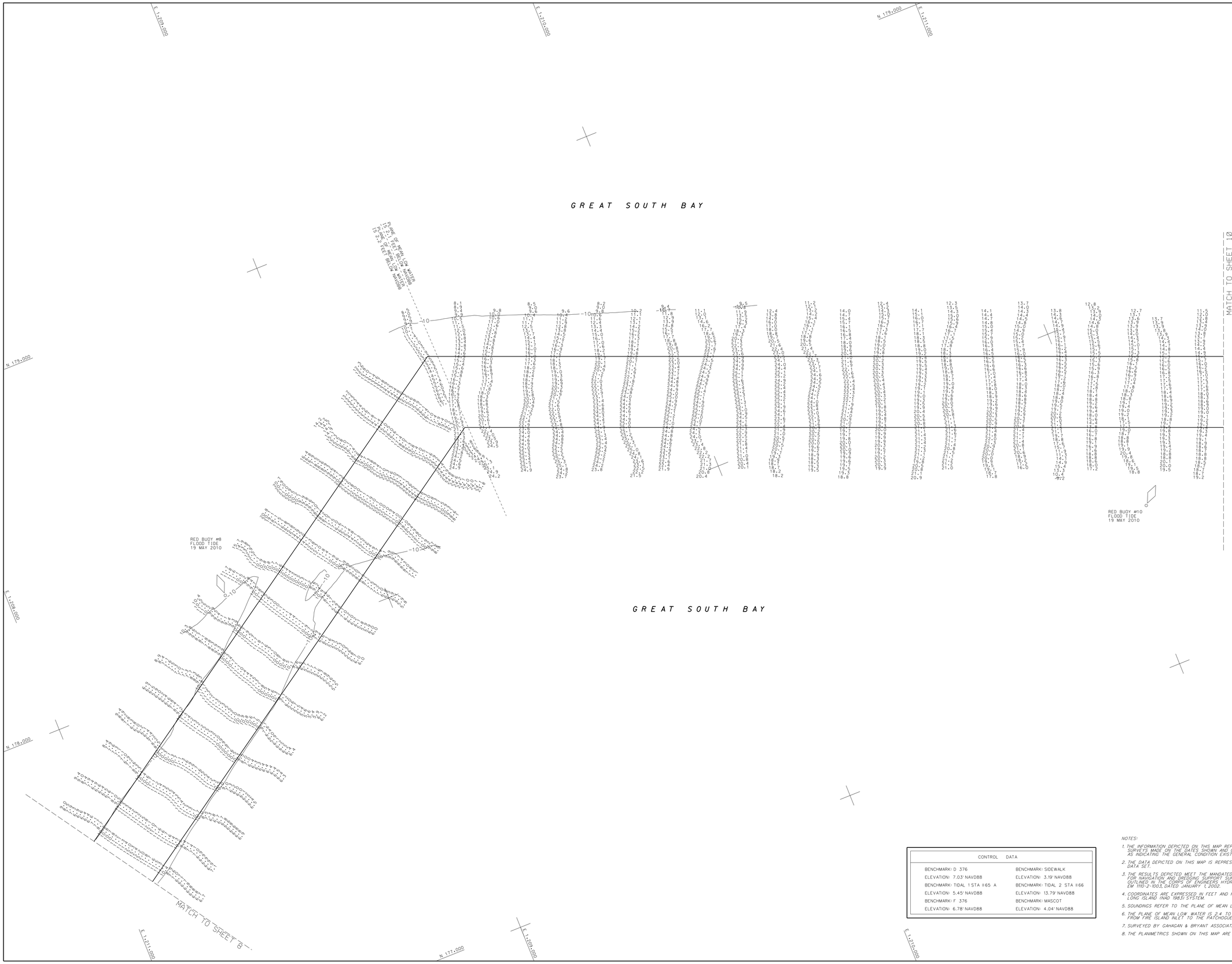
GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

VH-101

SHEET 8 OF 26

89
3536



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA #65 A	BENCHMARK: TIDAL 2 STA #66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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6. THE PLANE OF MEAN LOW WATER IS 2.4 TO 1.5 FEET BELOW NAVD88 FROM FIRE ISLAND INLET TO THE PATCHOGUE RIVER.
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
67 MILL STREET
CENTERVILLE SQUARE
HAUPPAUGE, N.Y. 11788-1195
TEL: (631)582-6448 FAX: (631)655-9218
E-MAIL: gba@gba-inc.com

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MIRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

VH-101

SHEET 9 OF 26

89
3536

CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA 65 A	BENCHMARK: TIDAL 2 STA II 66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GAHAGAN & BRYANT ASSOCIATES, INC.
MARINE SURVEYING
CONSULTING ENGINEERS
CENTERVILLE SQUARE
WILMINGTON, DELAWARE 19807-1195
TEL: 1302)652-4448 FAX: 1302)655-9218
E-MAIL: GBA@GBA-INC.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
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APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

VH-101

SHEET 10 OF 26

CORPS OF ENGINEERS

U. S. ARMY

CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II 65 A	BENCHMARK: TIDAL 2 STA II 66
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BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERS ★ SURVEYORS
GAHAGAN & BRYANT ASSOCIATES, INC.
67 MILITARY PLANK RD.
CENTERPORT, NY 11721
TEL: 1(631)262-8448 FAX: 1(631)655-9218
E-MAIL: GBA@GBAPC.COM
WWW.GBAPC.COM

DATES OF SURVEY:
JUNE 16-17, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

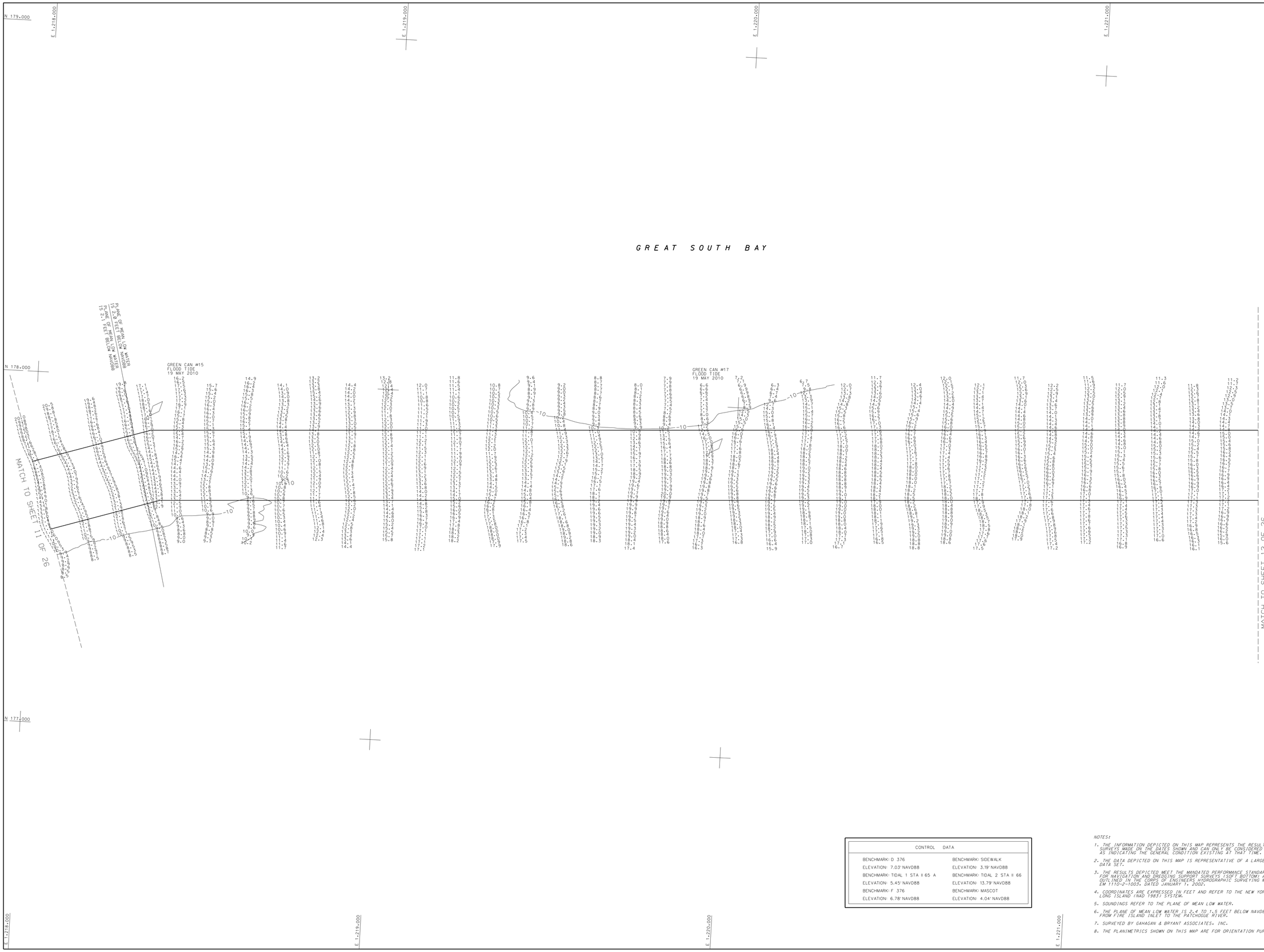
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

VH-101

SHEET 11 OF 26

89
3536



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II 65 A	BENCHMARK: TIDAL 2 STA II 66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
1000 WOODBURY ROAD, SUITE 202
CONVERTIBLE COURT
WOODBURY, NEW YORK 11797-1195
TEL: 1(631)921-4448 FAX: 1(631)655-9218
WWW.GBASURVEY.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

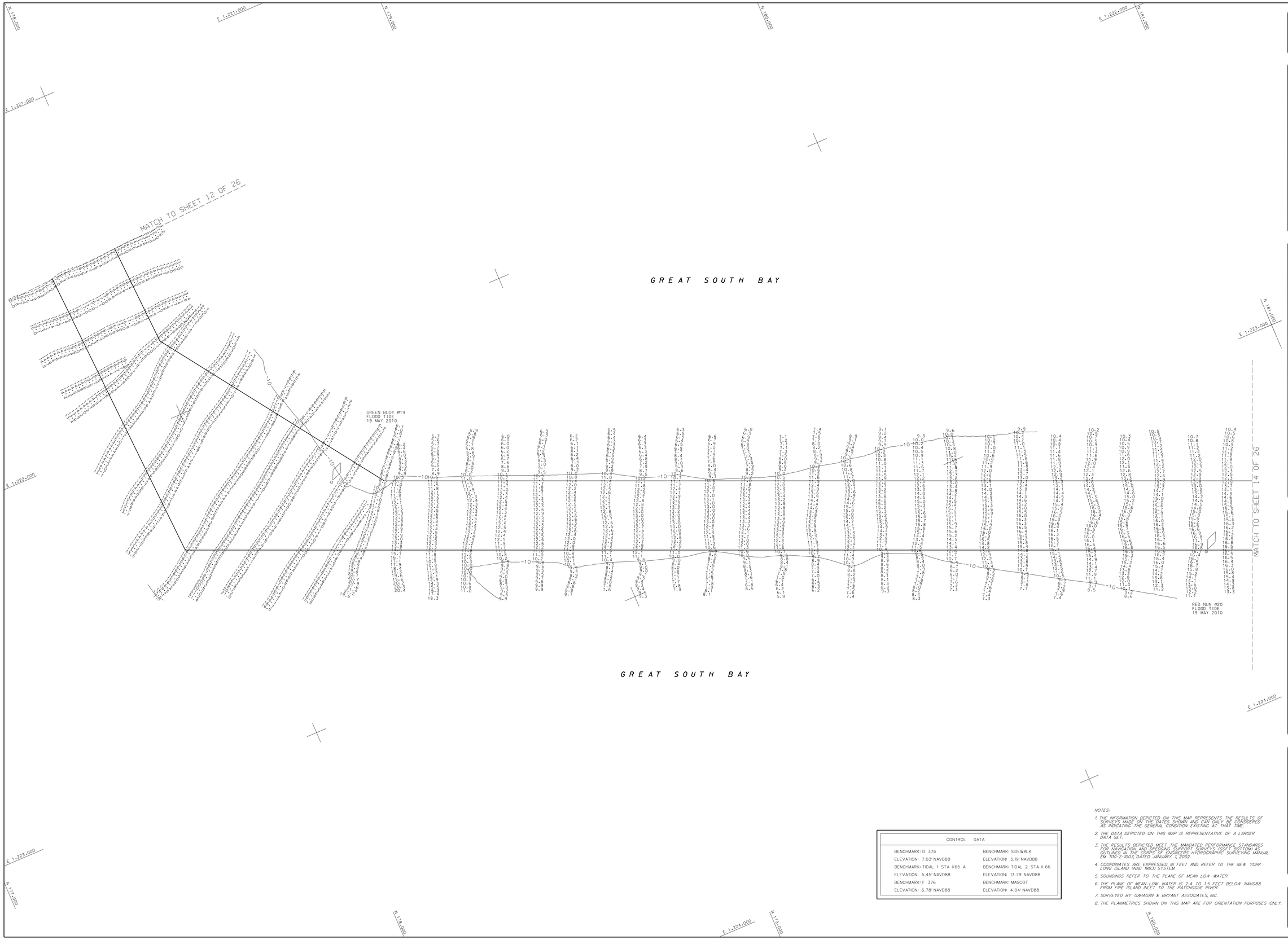
GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

VH-101

SHEET 12 OF 26

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II65 A	BENCHMARK: TIDAL 2 STA II 66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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6. THE PLANE OF MEAN LOW WATER IS 2.4 TO 1.5 FEET BELOW NAVD88 FROM FIRE ISLAND INLET TO THE PATCHOGUE RIVER.
7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
8. THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
GEOTECHNICAL ★ MARINE
CONSULTING ENGINEERS
TEL: 1.631.425-4448 FAX: 1.631.655-9218
WWW.GAHAGANBRYANT.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE LICENSED SURVEYOR
APPROVED: P. BACINE PROJECT MANAGER
APPROVED: J. WRAZ CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

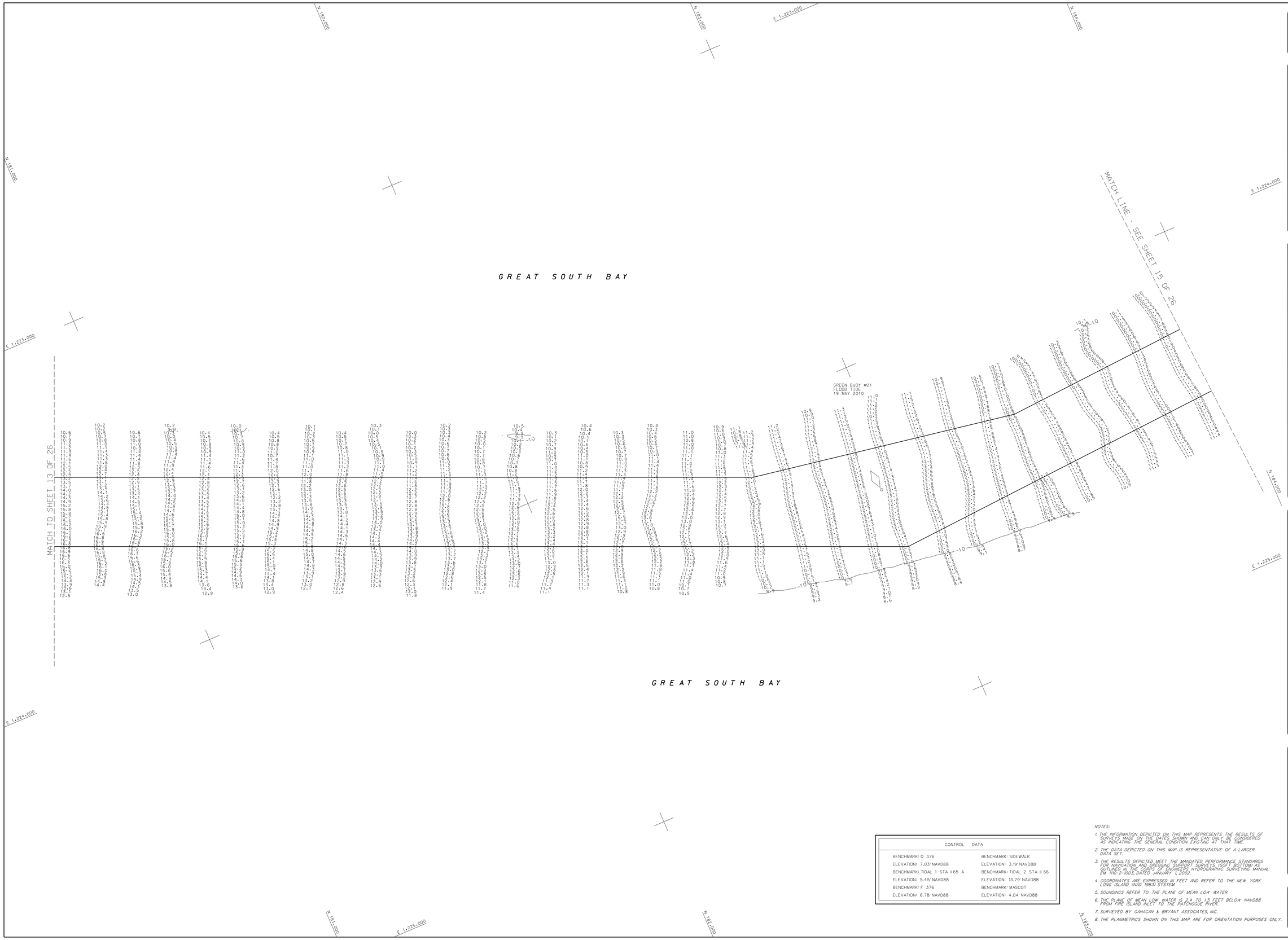
GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

VH-101

SHEET 13 OF 26

89
3536



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II65 A	BENCHMARK: TIDAL 2 STA II 66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
GEOTECHNICAL CONSULTANTS
CENTRETOWN SQUARE
TEL: 1.302.652.4448 FAX: 1.302.655.9218
E-MAIL: GBA@GBA-INC.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — CHIEF, SURVEY SECTION
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

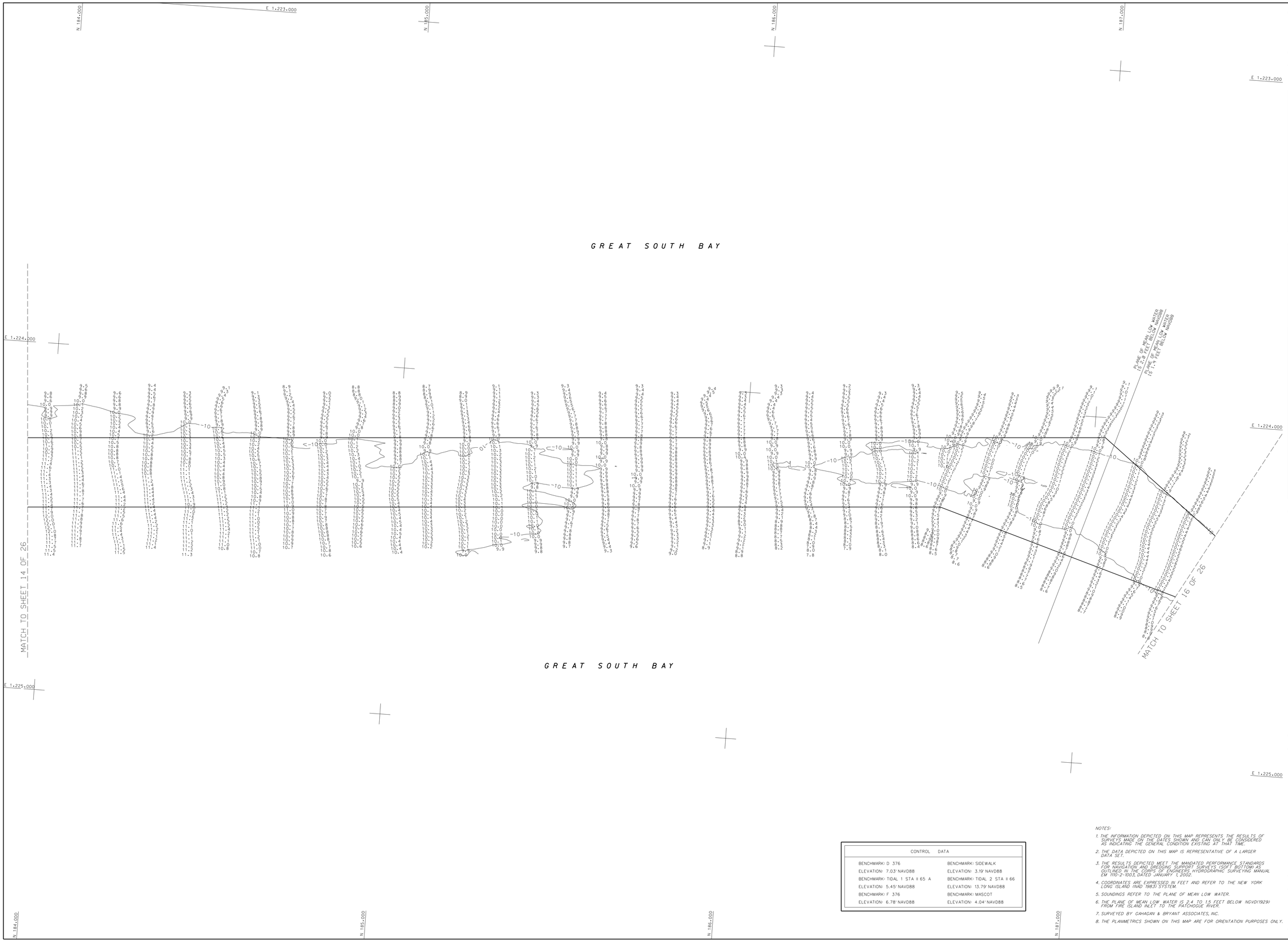
VH-101

SHEET 14 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II 65 A	BENCHMARK: TIDAL 2 STA II 66
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7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
67 MILLER AVENUE
CENTRALIA SQUARE
MINEOLA, NEW YORK 11501
TEL: (516)742-4448 FAX: (516)655-9218
WWW.GAHAGANBRYANT.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

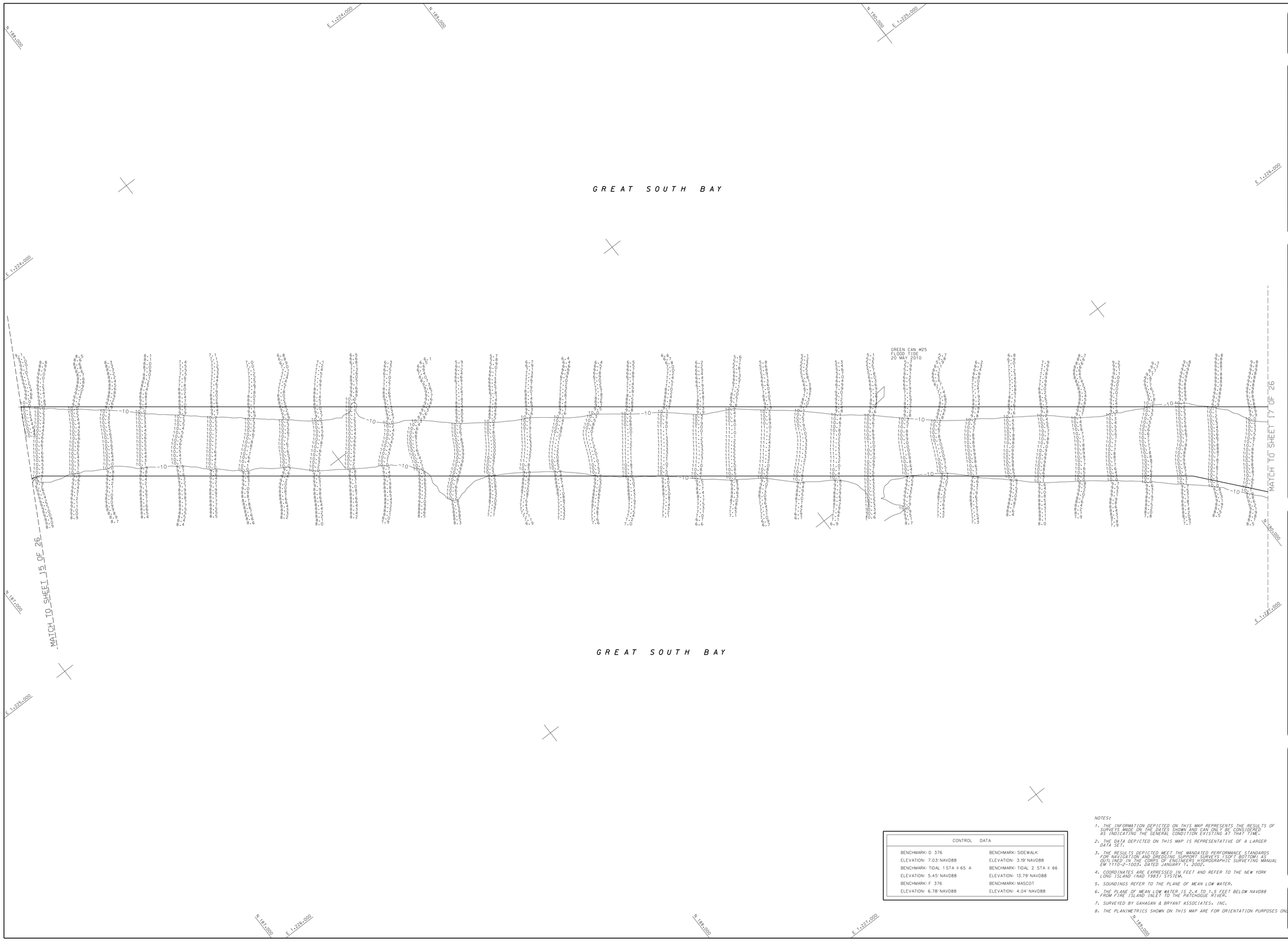
VH-101

SHEET 15 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
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ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II 65 A	BENCHMARK: TIDAL 2 STA II 66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

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4. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW YORK LONG ISLAND (NAD 1983) SYSTEM.
5. SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER.
6. THE PLANE OF MEAN LOW WATER IS 2.4 TO 1.5 FEET BELOW NAVD88 FROM FIRE ISLAND INLET TO THE PATCHOGUE RIVER.
7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
8. THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
LAND SURVEYORS
CONSULTING ENGINEERS
CENTERSTATE SQUARE
P.O. BOX 1195, CLIFTON PARK, NY 12065-1195
TEL. (518)383-4448 FAX. (518)655-5218
E-MAIL: GBA@NYCAP.RR.COM

DATES OF SURVEY: JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. ABAZ — CAD COORDINATOR
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

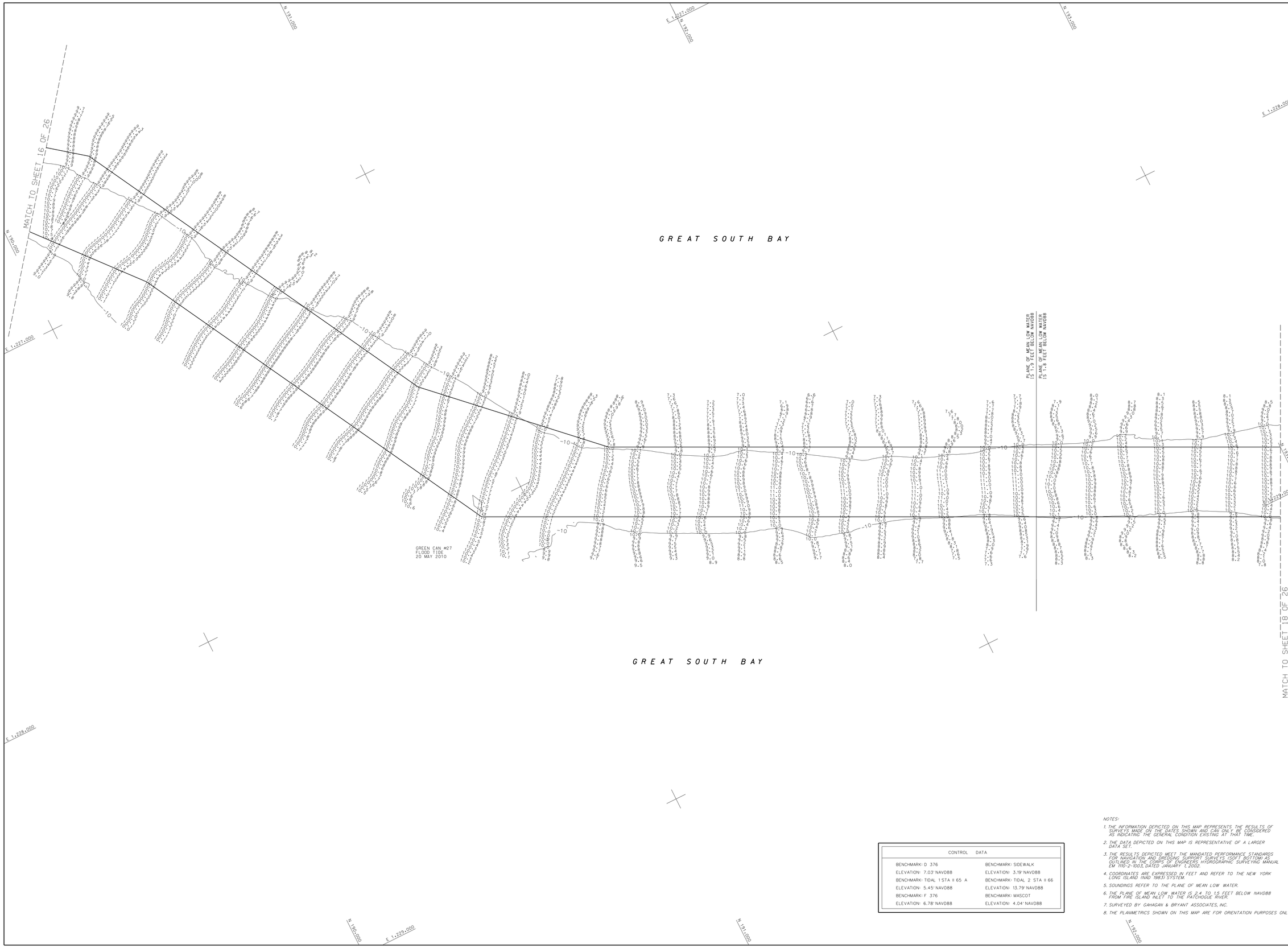
GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

VH-101

SHEET 16 OF 26

89
3536



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA # 65 A	BENCHMARK: TIDAL 2 STA # 66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
1 BLUE HILL PLAZA, 4TH FLOOR
PEARL RIVER, NEW YORK 10965
TEL: (845)620-4448 FAX: (845)620-4449
WWW.GAHAGANBRYANT.COM

DATES OF SURVEY: JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — TECHNICAL INSPECTOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MIRAZ — CAD COORDINATOR
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

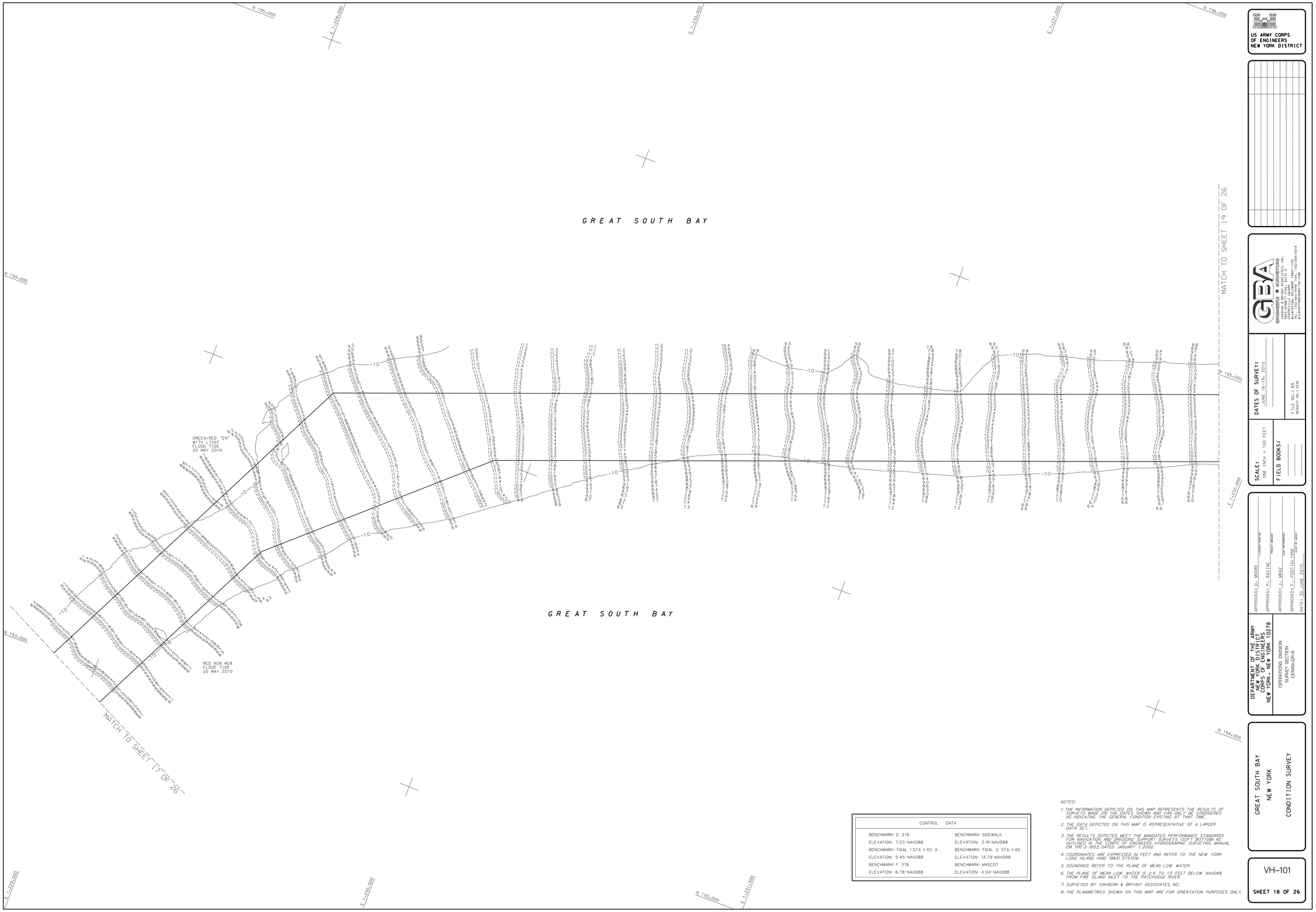
VH-101

SHEET 17 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
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ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GAHAGAN & BRYANT ASSOCIATES, INC.
ENGINEERS ★ SURVEYORS
CERTIFICATE NO. 0026
CENTERVILLE, GEORGIA 19897-1195
TEL: 1.302.652.4448 FAX: 1.302.655.9218
WWW.GAHAGANANDBRYANT.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
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APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

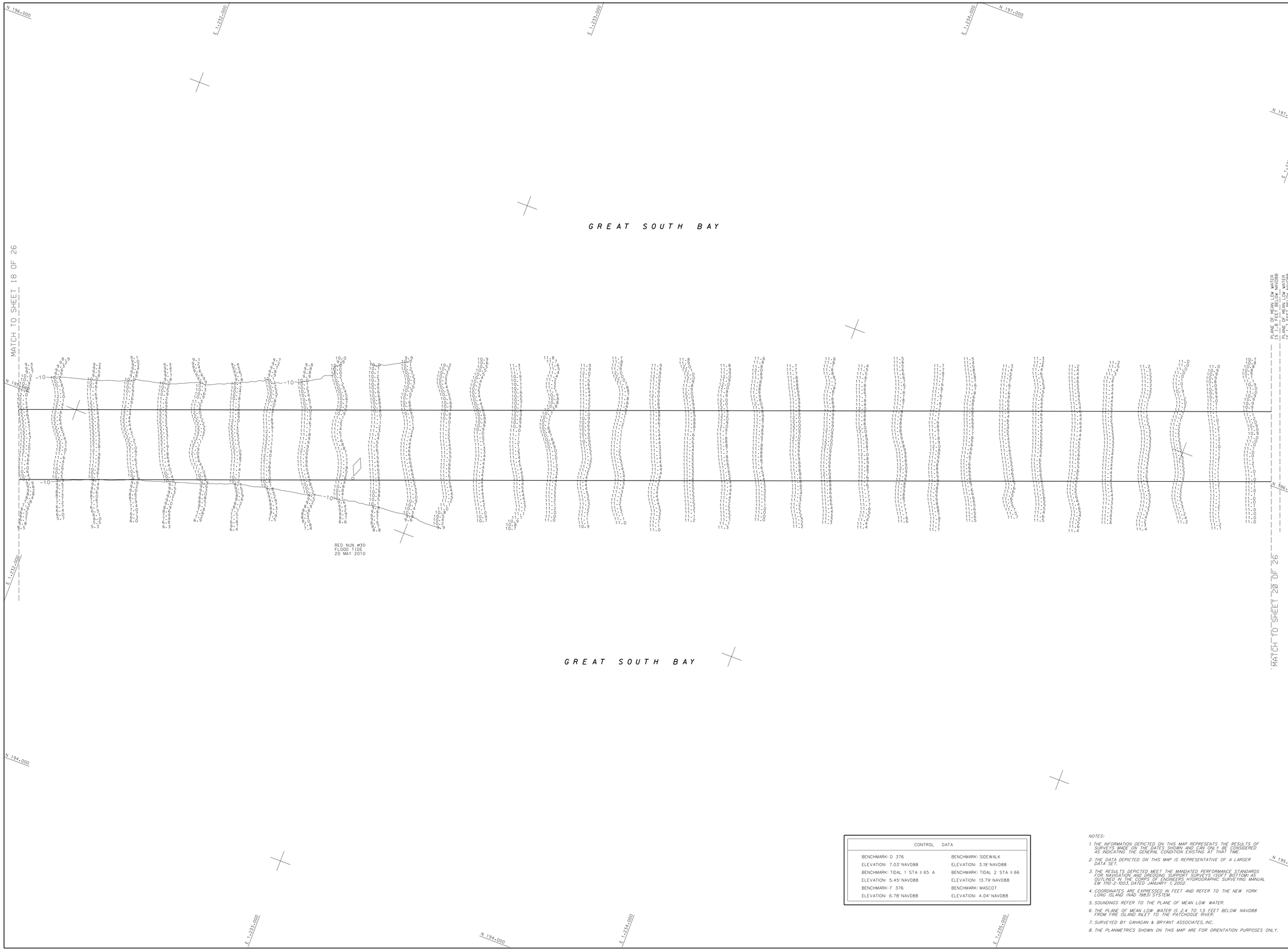
VH-101

SHEET 18 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



PLANE OF MEAN LOW WATER IS 2.4 TO 1.5 FEET BELOW NAVD88

CONTROL DATA	
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ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA GAHAGAN & BRYANT ASSOCIATES, INC. ENGINEERS ★ SURVEYORS
GAHAGAN & BRYANT ASSOCIATES, INC.
1000 LAKE STREET
CENTERVILLE SQUARE
MARYSVILLE, WA 98270-9195
TEL: 1.360.659.8314 FAX: 1.360.659.9218
WWW.GBAGEO.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LIDAR SUPERVISOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

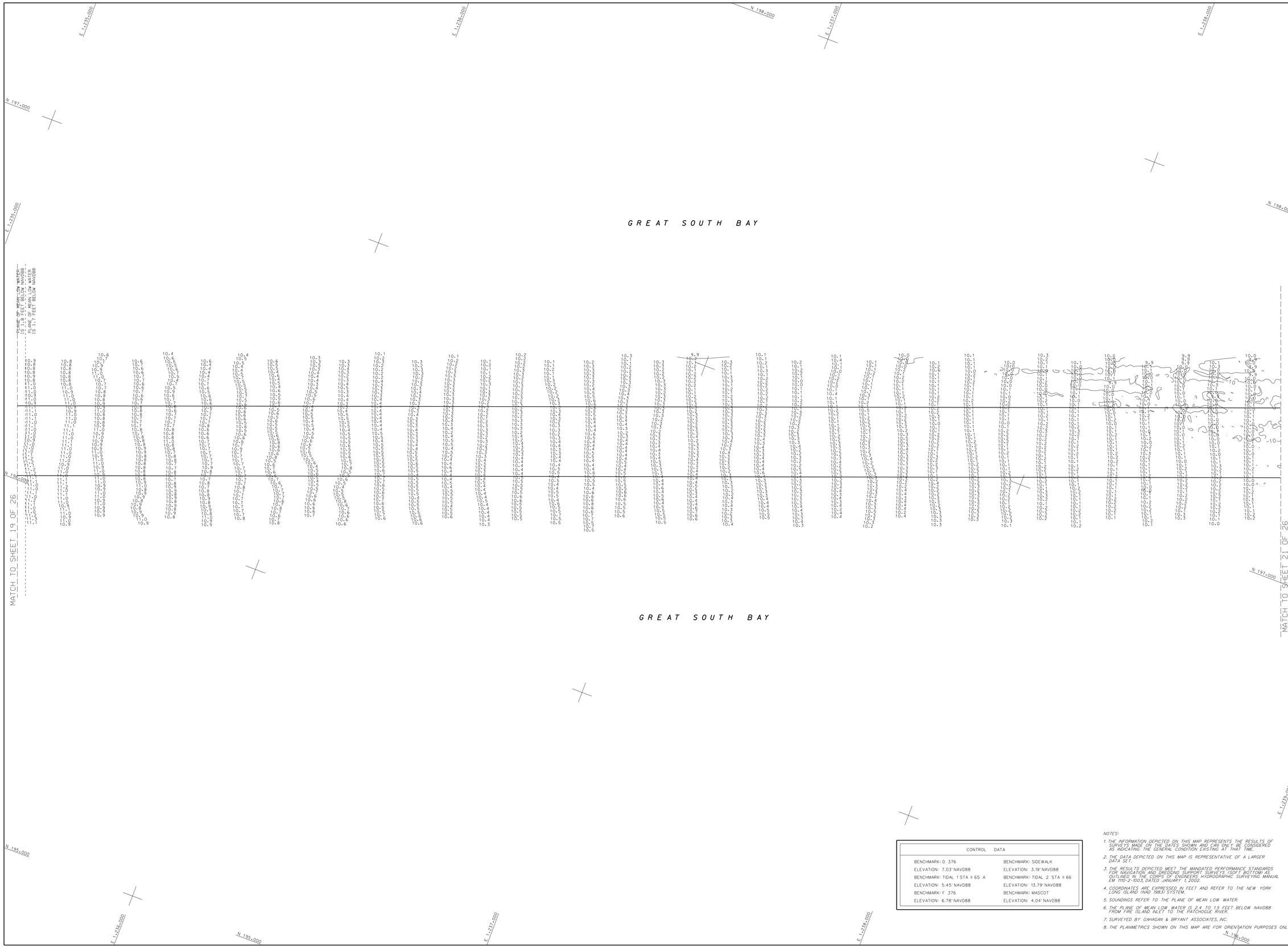
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

VH-101

SHEET 19 OF 26

89
3536



CONTROL DATA	
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
67 MILL STREET, SUITE 201
GERRARDSTOWN, WV 25420
TEL: 1.304.263-8448 FAX: 1.304.263-8450
WWW.GAHAGANBRYANT.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
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APPROVED: J. MEAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENWN-OPS

GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

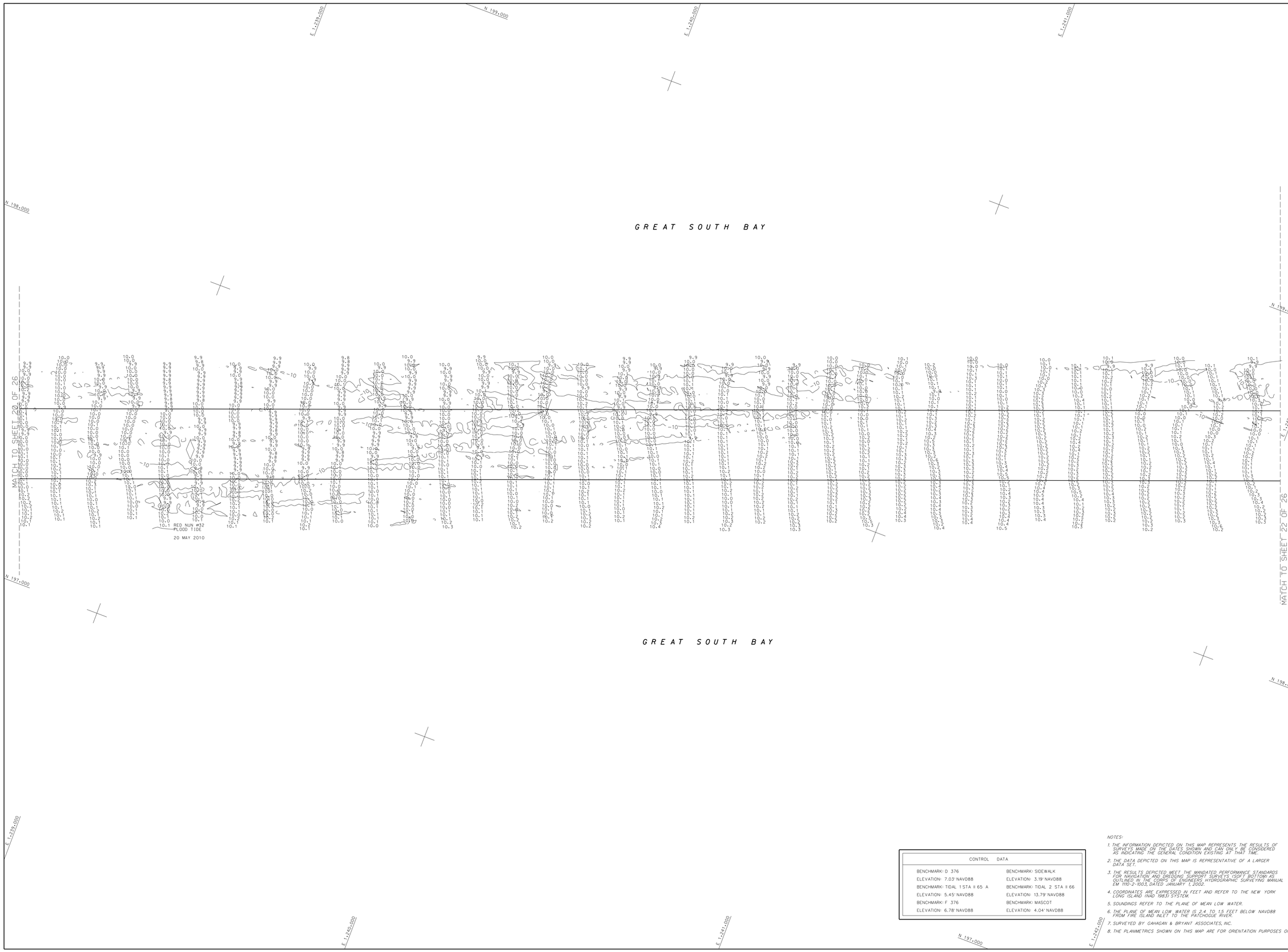
VH-101

SHEET 20 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
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ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
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BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
CAHAGAN & BRYANT ASSOCIATES, INC.
1 LAKE STREET, SUITE 1
CENTERPOINT PLAZA
CENTERPOINT PLAZA, 19977-1195
TEL: 1302)652-4448 FAX: 1302)655-9218
WWW.CAHAGANBRYANT.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

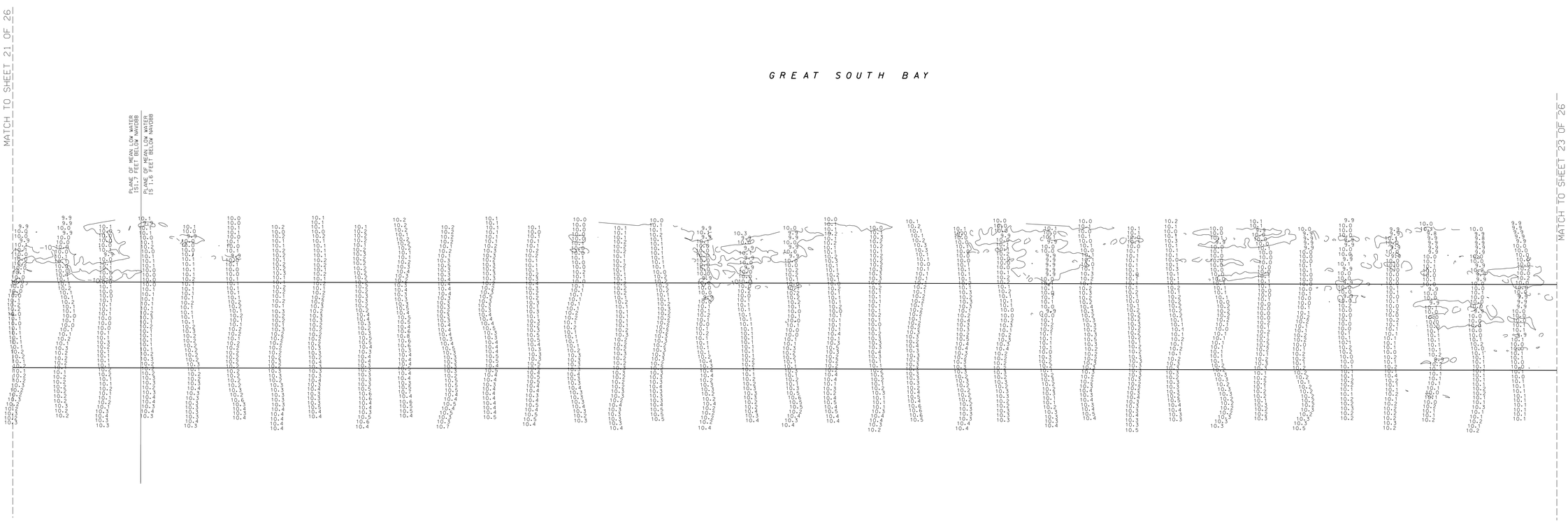
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

VH-101

SHEET 21 OF 26

89
3536



CONTROL DATA	
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
67 MILL STREET
CENTERVILLE SQUARE
HAUPPAUGE, NEW YORK 11788
TEL: (631)582-6448 FAX: (631)855-9218
WWW.GBASURVEY.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

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APPROVED: F. PISTILLONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

GREAT SOUTH BAY
NEW YORK

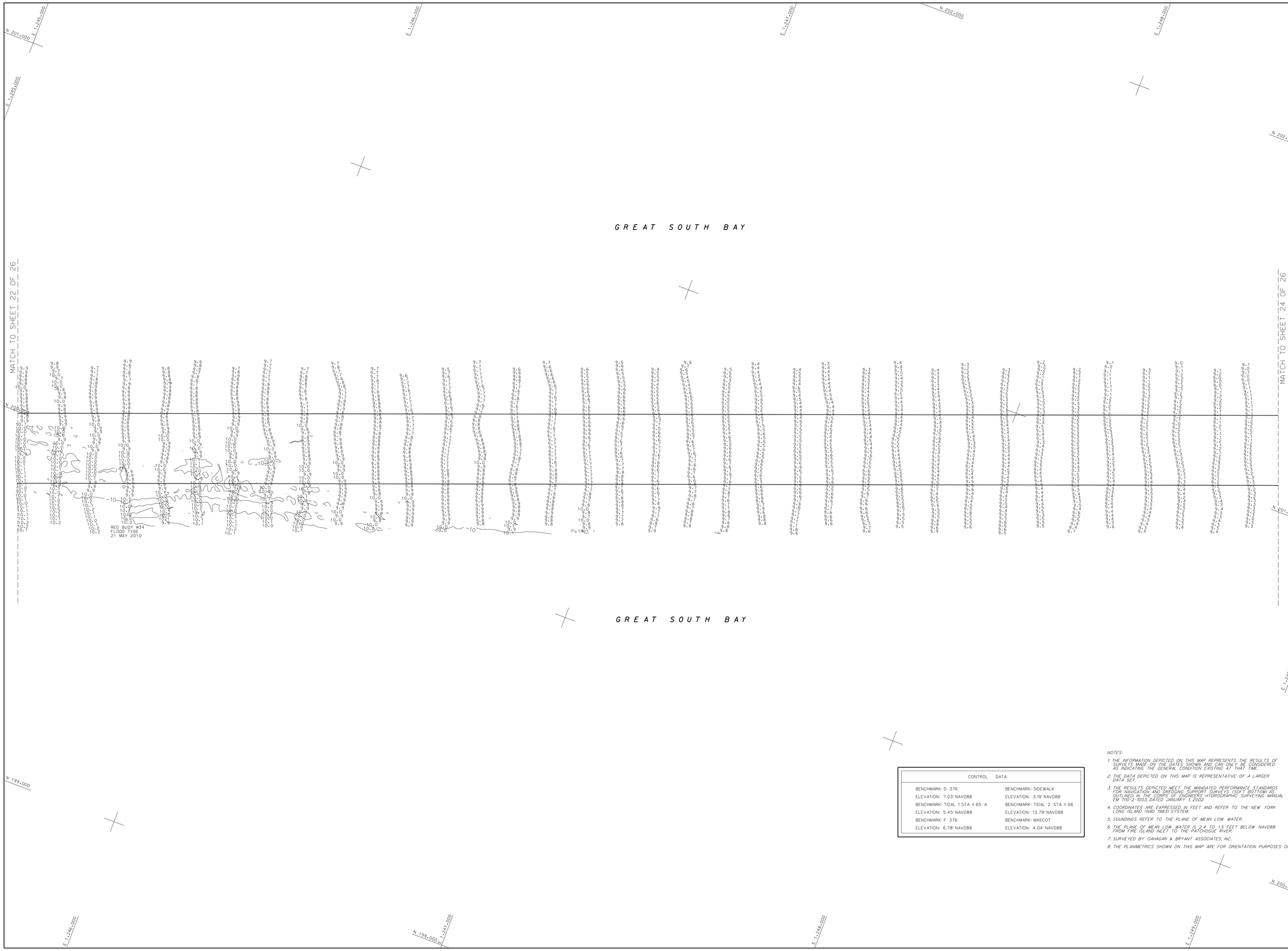
CONDITION SURVEY

VH-101

SHEET 22 OF 26

CORPS OF ENGINEERS

U. S. ARMY



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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
MARINE CONSULTANTS
1 LONG ISLAND AVENUE
CENTERPOINTE GOURMET
HOLBROOK, NEW YORK 11741
TEL: 1.631.563-4448 FAX: 1.631.655-9218
E-MAIL: GBA@GBA-INC.COM

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

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DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

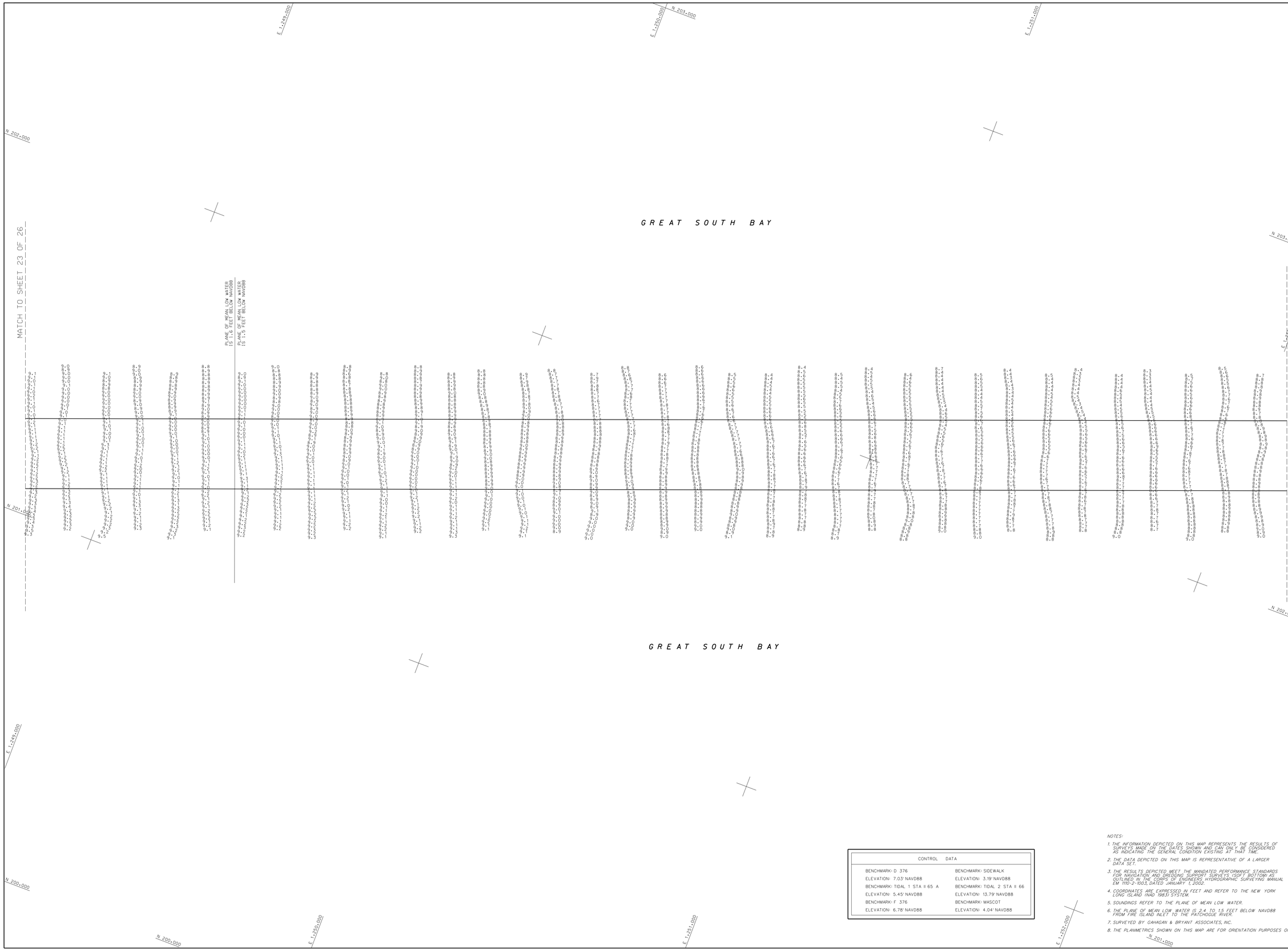
GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

VH-101

SHEET 23 OF 26

89
3536



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7. SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC.
8. THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
GAHAGAN & BRYANT ASSOCIATES, INC.
MARINE SURVEYORS
CONSULTING ENGINEERS
CENTERSTATE CODANE
TEL: 1.732.826.2448 FAX: 1.732.855.9218
NJ WATER PROGRAM LICENSE

DATES OF SURVEY:
JUNE 16-19, 2010

FILE NO.: 89
REQUEST NO.: 3536

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE — LICENSED SURVEYOR
APPROVED: P. RACINE — PROJECT MANAGER
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 30 JUNE 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

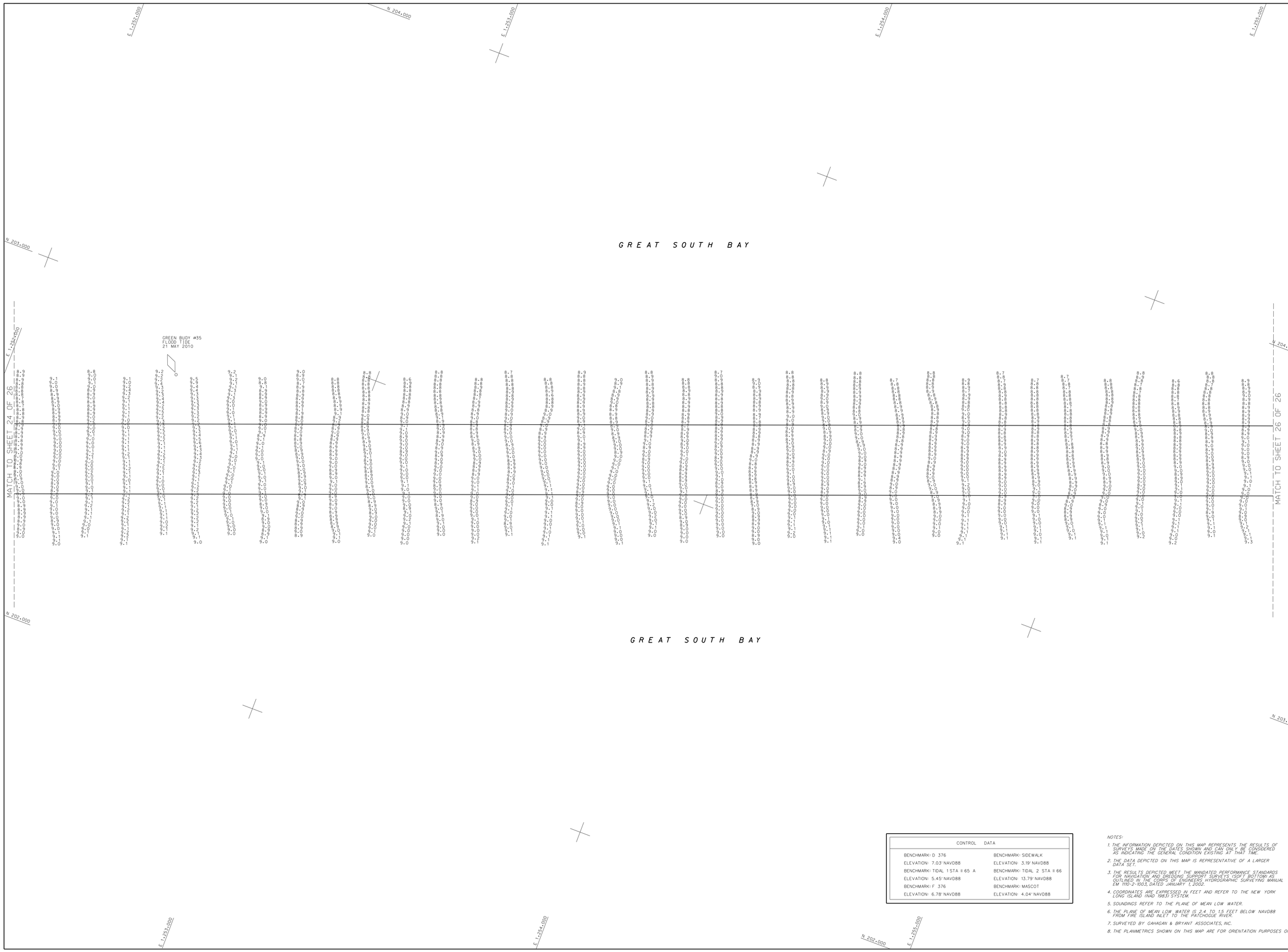
GREAT SOUTH BAY
NEW YORK
CONDITION SURVEY

VH-101

SHEET 24 OF 26

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK: D 376	BENCHMARK: SIDEWALK
ELEVATION: 7.03' NAVD88	ELEVATION: 3.19' NAVD88
BENCHMARK: TIDAL 1 STA II 65 A	BENCHMARK: TIDAL 2 STA II 66
ELEVATION: 5.45' NAVD88	ELEVATION: 13.79' NAVD88
BENCHMARK: F 376	BENCHMARK: MASCOT
ELEVATION: 6.78' NAVD88	ELEVATION: 4.04' NAVD88

NOTES:

1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.
2. THE DATA DEPICTED ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.
3. THE RESULTS DEPICTED MEET THE MANDATED PERFORMANCE STANDARDS FOR NAVIGATION AND DREDGING SUPPORT SURVEYS (SOFT BOTTOM) AS OUTLINED IN THE CORPS OF ENGINEERS HYDROGRAPHIC SURVEYING MANUAL EM 1110-2-1003, DATED JANUARY 1, 2002.
4. COORDINATES ARE EXPRESSED IN FEET AND REFER TO THE NEW YORK LONG ISLAND (NAD 1983) SYSTEM.
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GAHAGAN & BRYANT ASSOCIATES, INC.
MARINE SURVEYORS
LICENSED LAND SURVEYORS
GERMANTOWN, MD 20876-1195
TEL: 1(301)428-4448 FAX: 1(301)855-9218
WWW.GAHAGANBRYANT.COM

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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
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CENAN-OP-S

GREAT SOUTH BAY
NEW YORK

CONDITION SURVEY

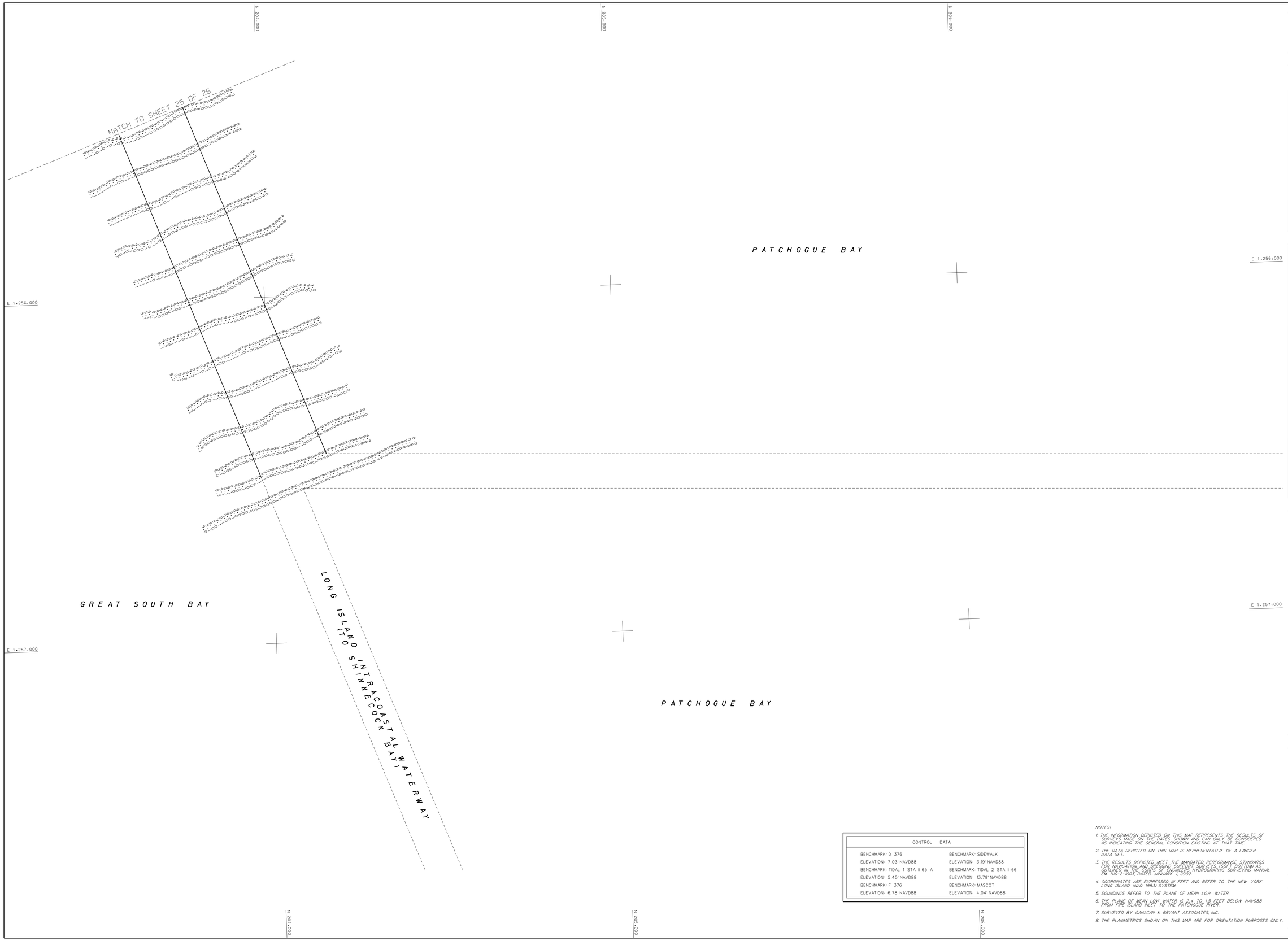
VH-101

SHEET 25 OF 26

89
3536

CORPS OF ENGINEERS

U. S. ARMY



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ENGINEERS ★ SURVEYORS
GAHAGAN & BRYANT ASSOCIATES, INC.
1000 LAFAYETTE BLVD.
BRIDGEPORT, CT 06604
TEL: 1.203.362-4448 FAX: 1.203.365-9218
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