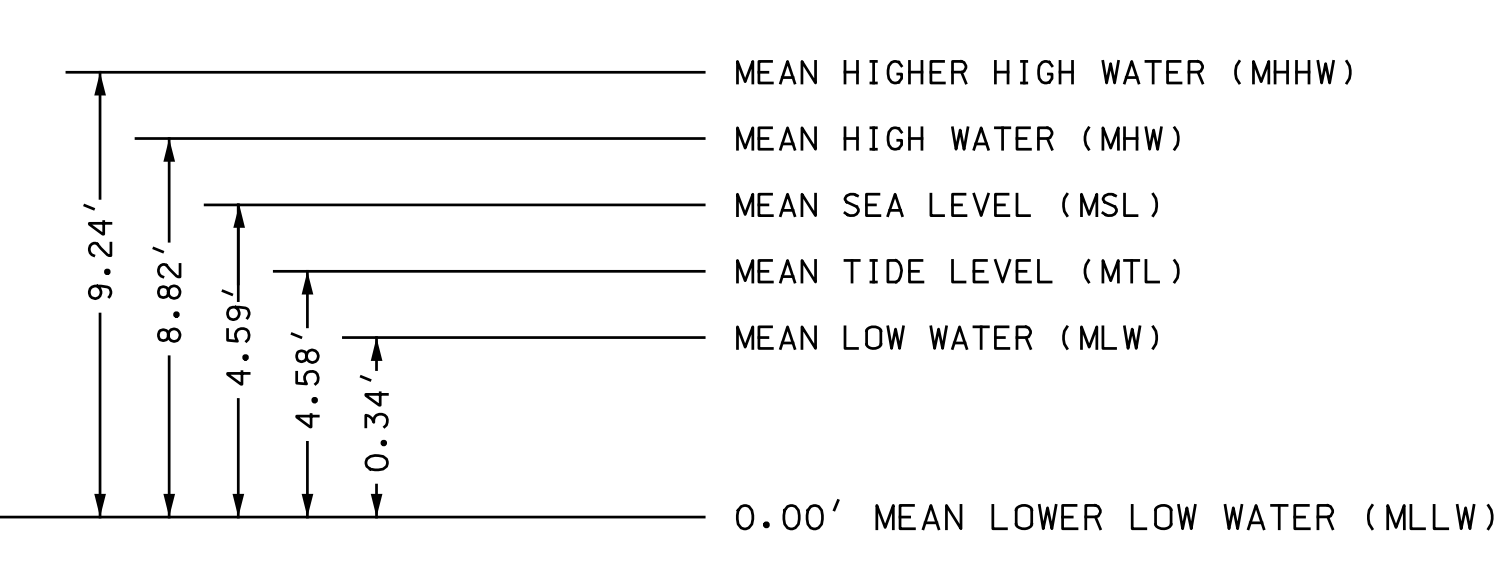


TIDAL DATUM PLANES FOR DOUBLING POINT
 Publication No. 8417227
 Tidal Datums of Bath, Maine
 are based on the following:
 Length of Series -38 Days
 Time Period -July 21, 2005 - August 27, 2005
 Tidal Epoch -1983 - 2001
 Control Tide Station -Portland, Casco Bay (8418150)



TIDAL DATUM PLANES FOR POPHAM BEACH
 Publication No. 8417177
 Tidal Datums at Hunnewell Point, Maine
 are based on the following:
 Length of Series -3 Months
 Time Period -August 2005 - October 2005
 Tidal Epoch -1983 - 2001
 Control Tide Station -Portland, Casco Bay (8418150)

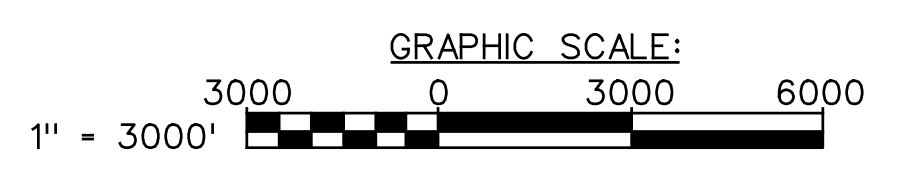
KENNEBEC RIVER
 BATH, MAINE
 VICINITY OF DOUBLING POINT
 DISPOSAL SITE
 STATE PLANE NAD 1983
 (WEST ZONE 1802)

#	EASTING	NORTHING
1	3051151.42	375619.38
2	3050601.43	375619.39
3	3050601.43	375119.40
4	3051151.43	375119.40

KENNEBEC RIVER
 PHIPPSBURG, MAINE
 VICINITY OF POPHAM BEACH
 DISPOSAL SITE
 STATE PLANE NAD 1983
 (WEST ZONE 1802)

#	EASTING	NORTHING
1	3055130.75	322730.62
2	3053930.66	321830.73
3	3054830.55	320630.65
4	3056030.64	321530.54

LEGEND	
DESCRIPTION	SYMBOL
REQUIRED DREDGING DEPTH CONTOUR	
APPROXIMATE DREDGING AREA LIMITS	
MATERIAL REQUIRED TO BE DREDGED	
ALLOWABLE OVERDEPTH (CROSS-SECTION ONLY)	
CHANNEL COORDINATE	
LEDGE AREA	
NAVIGATION AIDS	
CONTROL LINE / CENTERLINE	
CABLE AREA	



PLAN
 SCALE: 1" = 3000'

US Army Corps of Engineers
 New England District

DATE	DESCRIPTION	DATE	DESCRIPTION

DESIGNED BY: [Blank]

DRAWN BY: [Blank]

CHECKED BY: [Blank]

DATE: [Blank]

CONTRACT NO.: [Blank]

PROJECT NO.: [Blank]

FILE NAME: [Blank]

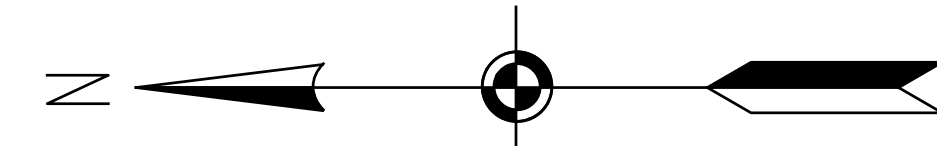
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U.S. ARMY CORPS OF ENGINEERS
 NEW ENGLAND DISTRICT
 CONCORD, MASSACHUSETTS

MAINTENANCE DREDGING
 27-FOOT DOUBLING POINT CHANNEL
 27-FOOT POPHAM BEACH CHANNEL
 BATH AND PHIPPSBURG, MAINE
 PLAN, LEGEND, TIDAL DATUM PLANES,
 AND DISPOSAL SITE COORDINATES

SHEET IDENTIFICATION
G-002
 SHEET 2 OF 6



ARROWSIC ISLAND

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-28	2/22/11	N 382969.50 E 3047264.87	43° - 53' - 00.5"N 69° - 48' - 29.4"W
GC-29	2/22/11	N 383376.26 E 3046347.01	43° - 53' - 04.6"N 69° - 48' - 42.0"W
GC-31	2/22/11	N 384386.19 E 3046935.79	43° - 53' - 14.5"N 69° - 48' - 33.9"W
GC-33	2/22/11	N 387846.99 E 3046476.64	43° - 53' - 48.7"N 69° - 48' - 39.9"W

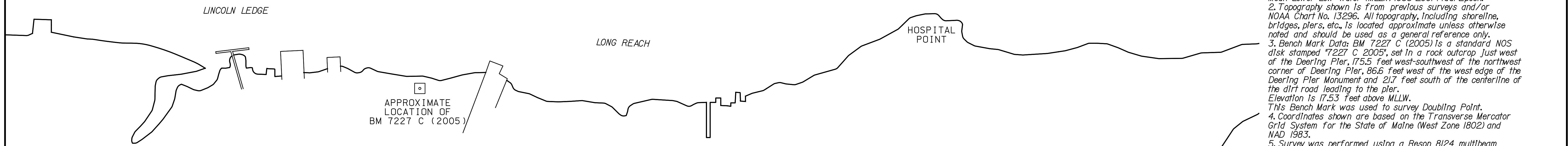
FIDDLER REACH

E 3048000 + E 3048000

D N 385,910.08 E 3,046,951.53 DREDGING AREA LIMIT N 383,541.27 E 3,046,876.53 GC-31 RN-28

E 3046000 + E 3046000 C 51+97 50+00 45+00 40+00 35+00 30+00 25+00 20+00 15+00 10+00 00+00

KENNEBEC RIVER



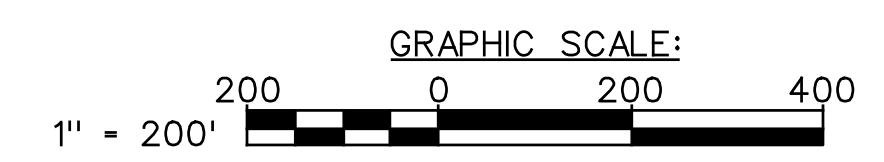
KENNEBEC RIVER
BATH, MAINE
VICINITY OF DOUBLING POINT
27-FOOT CHANNEL
STATE PLANE NAD 1983 WEST ZONE

#	EASTING	NORTHING
1	3046537.93	382564.64
2	3046360.09	383029.97
3	3046513.40	387871.97
4	3047013.15	387856.15
5	3046871.21	383373.27
6	3047073.40	382844.29

PLAN - DOUBLING POINT - BASE BID ITEM NO. 0001
SCALE: 1" = 200'

BATH

- GENERAL NOTES:**
1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch.
 2. Topography shown is from previous surveys and/or NOAA Chart No. 13296. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
 3. Bench Mark Data: BM 7227 C (2005) is a standard NOS disk stamped "7227 C (2005)", set in a rock outcrop just west of the Deering Pier, 175.5 feet west-southwest of the northwest corner of Deering Pier, 86.6 feet west of the west edge of the Deering Pier Monument and 217 feet south of the centerline of the dirt road leading to the pier. Elevation is 17.53 feet above MLLW. This Bench Mark was used to survey Doubling Point.
 4. Coordinates shown are based on the Transverse Mercator Grid System for the State of Maine (West Zone 1802) and NAD 1983.
 5. Survey was performed using a Reson 8124 multibeam echosounder system with a 200 kHz transducer. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS Receiver. An RTK base station was set up on Sta. Snow (2009) using a NAVD88 to MLLW correction of 3.55 feet.
 6. The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during February 2011.
 7. The sounding information depicted on this map should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
 8. The information depicted on this map represents the results of surveys made on the dates indicated, and can only be considered as indicating the general conditions existing at that time.
 9. Field Book: R&H 4540
- 27-foot contour shown thus: Survey performed by Jeffrey W. Preston and crew Refer to Survey No. 11-1098



US Army Corps of Engineers
New England District

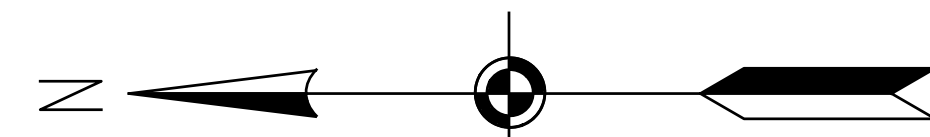
DATE	DESCRIPTION	DATE	APPROVAL

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT CONCORD, MASSACHUSETTS	REGULATION NO.: CONTRACT NO.:	DRAWING CODE: FILE NAME: ANSI:
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MAINTENANCE DREDGING 27-FOOT DOUBLING POINT CHANNEL 27-FOOT POPHAM BEACH CHANNEL BATH AND PHIPPSBURG, MAINE	PLAN - DOUBLING POINT BASE BID ITEM NO. 0001
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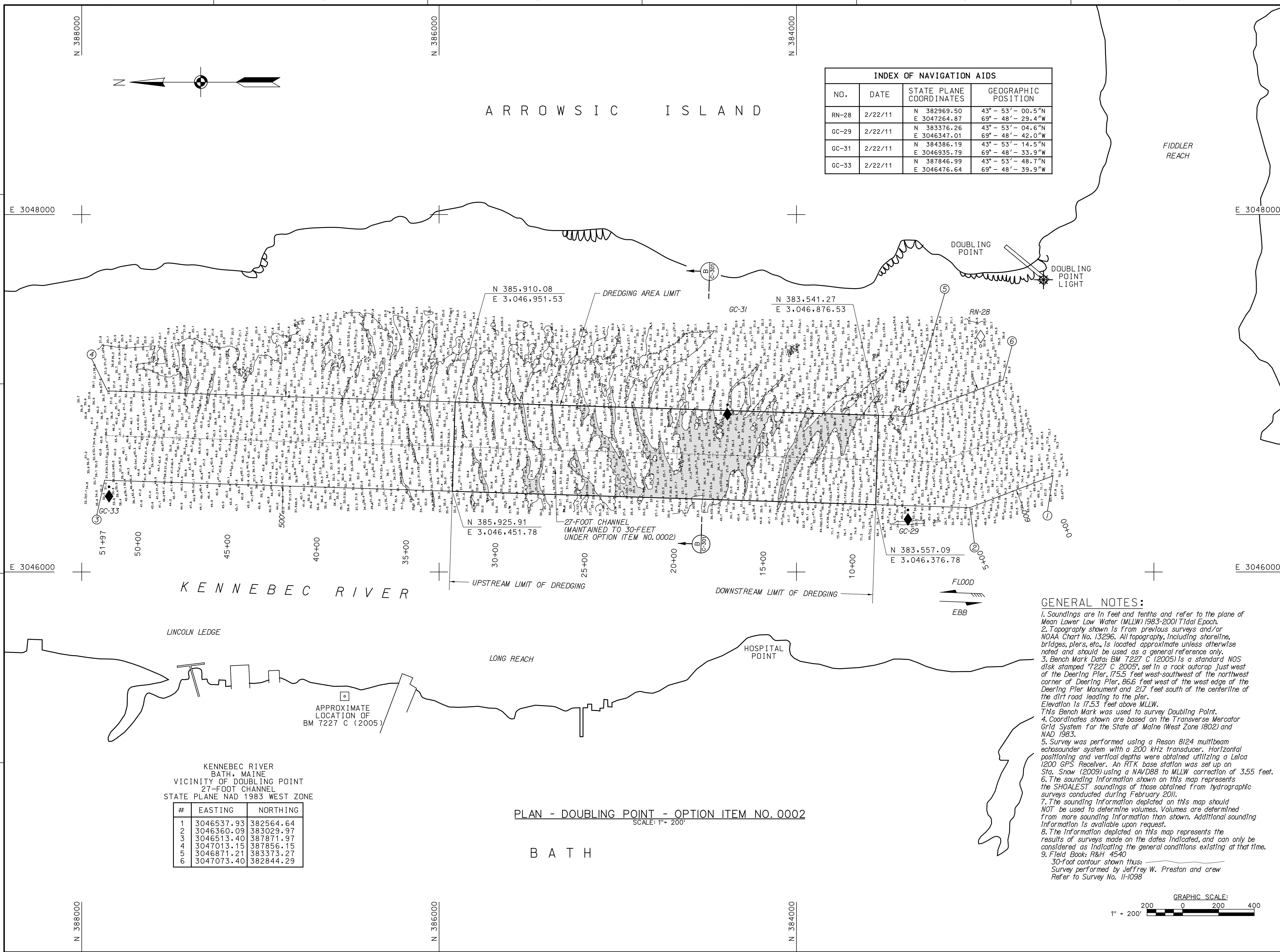
SHEET IDENTIFICATION C-101	DATE
SHEET 3 OF 6	



ARROWSIC ISLAND

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-28	2/22/11	N 382969.50 E 3047264.87	43° - 53' - 00.5"N 69° - 48' - 29.4"W
GC-29	2/22/11	N 383376.26 E 3046347.01	43° - 53' - 04.6"N 69° - 48' - 42.0"W
GC-31	2/22/11	N 384386.19 E 3046935.79	43° - 53' - 14.5"N 69° - 48' - 33.9"W
GC-33	2/22/11	N 387846.99 E 3046476.64	43° - 53' - 48.7"N 69° - 48' - 39.9"W

FIDDLER REACH



KENNEBEC RIVER
BATH, MAINE
VICINITY OF DOUBLING POINT
27-FOOT CHANNEL
STATE PLANE NAD 1983 WEST ZONE

#	EASTING	NORTHING
1	3046537.93	382564.64
2	3046360.09	383029.97
3	3046513.40	387871.97
4	3047013.15	387856.15
5	3046871.21	383373.27
6	3047073.40	382844.29

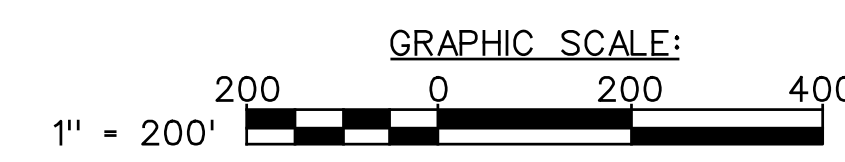
PLAN - DOUBLING POINT - OPTION ITEM NO. 0002
SCALE: 1" = 200'

BATH

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch.
2. Topography shown is from previous surveys and/or NOAA Chart No. 13296. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Bench Mark Data: BM 7227 C (2005) is a standard NOS disk stamped "7227 C (2005)", set in a rock outcrop just west of the Deering Pier, 175.5 feet west-southwest of the northwest corner of Deering Pier, 86.6 feet west of the west edge of the Deering Pier Monument and 217 feet south of the centerline of the dirt road leading to the pier. Elevation is 17.53 feet above MLLW. This Bench Mark was used to survey Doubling Point.
4. Coordinates shown are based on the Transverse Mercator Grid System for the State of Maine (West Zone (802) and NAD 1983.
5. Survey was performed using a Reson 8124 multibeam echosounder system with a 200 kHz transducer. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS Receiver. An RTK base station was set up on Sta. Snow (2009) using a NAVD88 to MLLW correction of 3.55 feet.
6. The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during February 2011.
7. The sounding information depicted on this map should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
8. The information depicted on this map represents the results of surveys made on the dates indicated, and can only be considered as indicating the general conditions existing at that time.
9. Field Book: R&H 4540

30-foot contour shown thus: Survey performed by Jeffrey W. Preston and crew Refer to Survey No. 11-1098



US Army Corps of Engineers
New England District

DATE	DESCRIPTION	DATE	APPROVAL

DESIGNED BY: [Blank]	DATE: [Blank]
DRAWN BY: [Blank]	SCALE: [Blank]
CHECKED BY: [Blank]	FILE NAME: [Blank]
APPROVED BY: [Blank]	ANSI: [Blank]

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS

PROJECT NO.: [Blank]
DRAWING CODE: [Blank]
SHEET NO.: [Blank]

MAINTENANCE DREDGING
DOUBLING POINT CHANNEL
27-FOOT POPHAM BEACH CHANNEL
BATH AND PHIPPSBURG, MAINE

PLAN - DOUBLING POINT
OPTION ITEM NO. 0002

SHEET IDENTIFICATION
C-102
SHEET 4 OF 6

