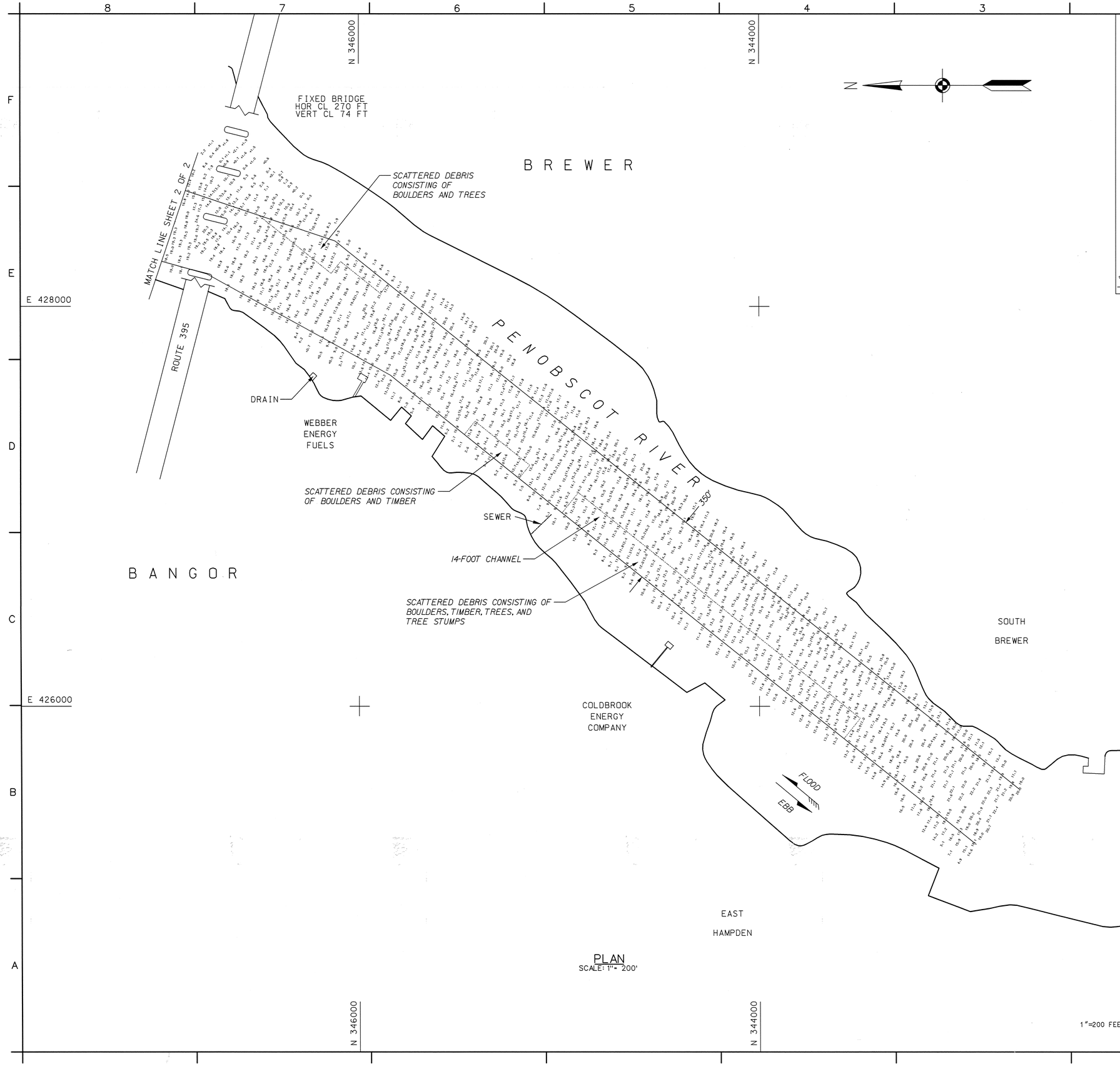
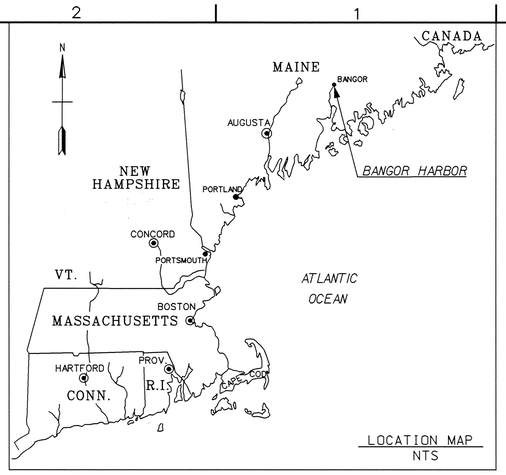


PLAN
SCALE: 1"= 200'



LOCATION MAP
NTS

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (MLLW).
2. Topography shown is from previous surveys and/or NOAA Chart No. 13309. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted. Topography should be used as a general reference only.
3. Bench Mark Data: BM 46125 (1984) is a standard NOS disk stamped "46125 (1984)", set flush in a concrete monument at the intersection of May and Front Streets, 36.0 feet (11.0m) west of the railroad crossing signal on the east side of the tracks, 5.9 feet (1.8 m), south of NYNEX power pole #9 (to top of ground rod), 5.0 feet (2.0 m) north of the centerline of May Street, and 4.4 feet (1.4 m) southeast of the railroad crossing signal on the west side of the tracks. Elevation is 26.85 feet above MLLW.
4. Coordinates shown are based on the Transverse Mercator Grid System for the State of Maine (East Zone) & NAD 1927.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June 2002.
6. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
7. The information depicted on these maps represents the results of surveys made on the dates indicated, and can only be considered as indicating the general conditions existing at that time.
8. Areas of scattered debris indicated thus: ----------
9. Field Book: R&H 3406
   Depth Sounder Rolls: 02-602/01-02

GRAPHIC SCALE:
1"=200 FEET 200 0 200 400

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

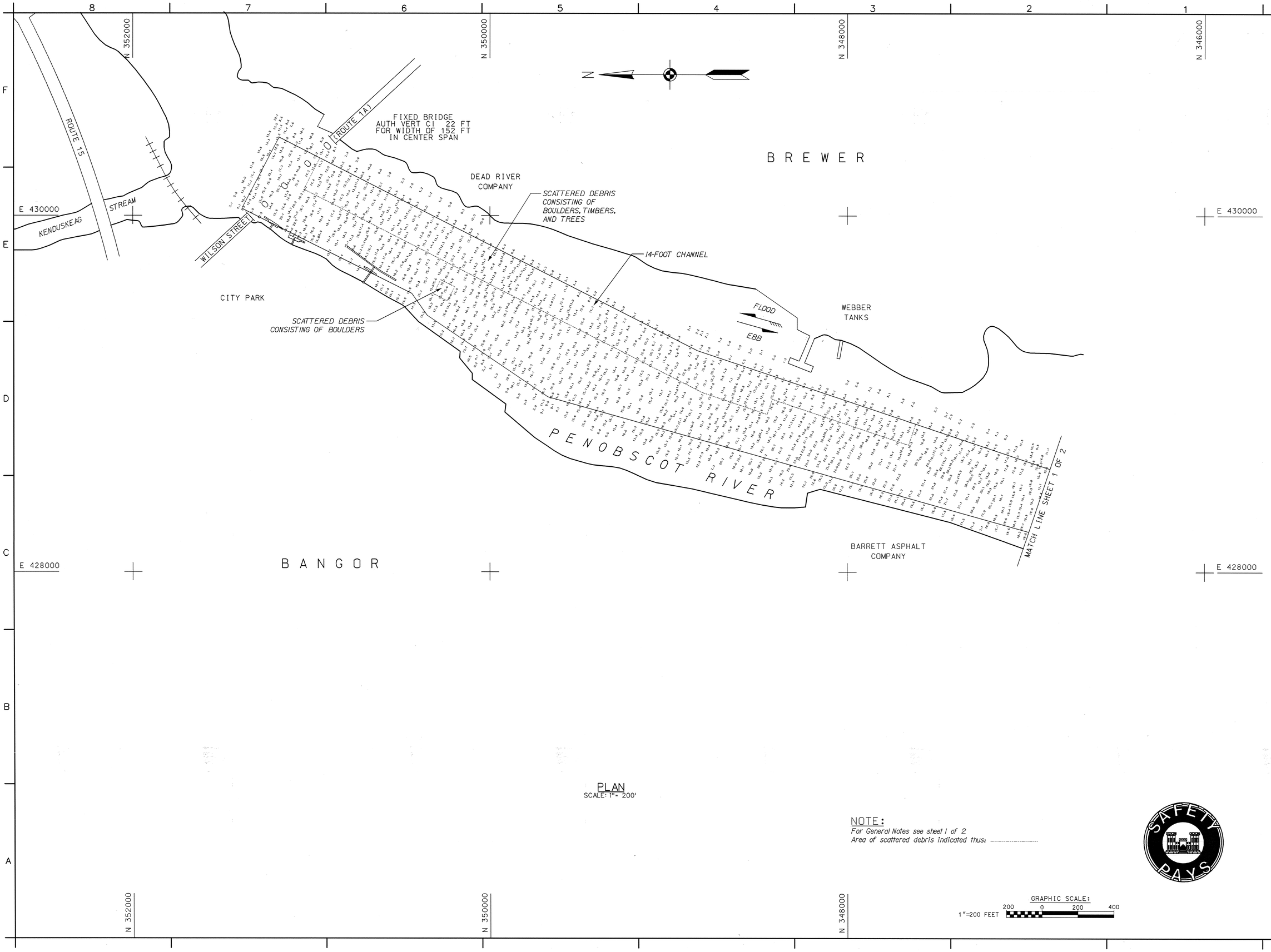
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

Surveyed By: P.K. O'Brien
Hydrographic Crew
Plotted By: V.J. Garabedian
Asst. Chief, Survey Section
Chief, Survey Section
Date: 12/22/04
Design file:
Drawing code: 2597
File name: PNBVS01.S01
Plot date: 12/21/2004
Plot scale: 1"=200'
Rev.

PENOBSCOT RIVER
BANGOR, MAINE
BANGOR HARBOR
CONDITION SURVEY

14-FOOT CHANNEL

Reference number:
V-1
Sheet 1 of 2



PLAN
SCALE: 1"= 200'

NOTE:
For General Notes see sheet 1 of 2
Area of scattered debris indicated thus: ----------

GRAPHIC SCALE:
1"=200 FEET
200 0 200 400

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Surveyed By: P.K. O'Brien
Hydrographic Crew
Plotted By: V.N. Garabedian
Date: 12/22/04
Rev.
Design file:
Drawing code: 2597
Asst. Chief, Survey Section
File name: PNBVS02.S02
Plot date: 12/21/2004
Plot scale: 1"=200'
Chief, Survey Section

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

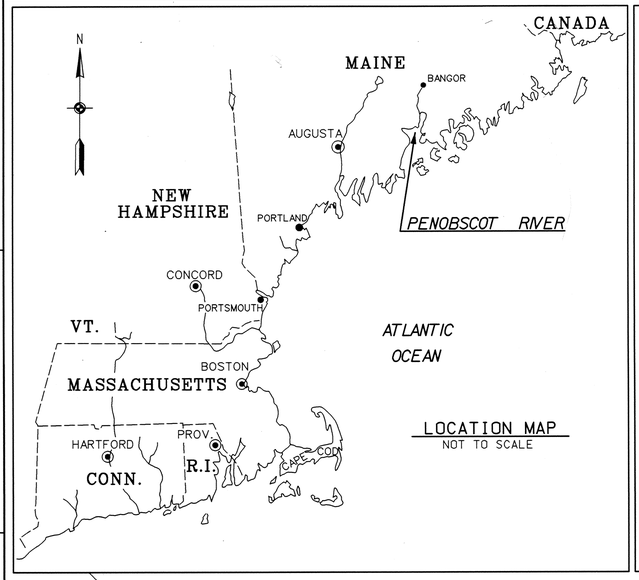
PENOBSCOT RIVER
BANGOR, MAINE
BANGOR HARBOR
CONDITION SURVEY

14-FOOT CHANNEL

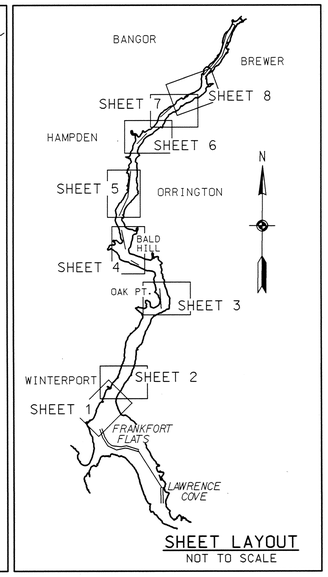
Reference number:
V-2
Sheet 2 of 2

SAFETY PAYS

Scanned Record Feb-2006



LOCATION MAP
NOT TO SCALE

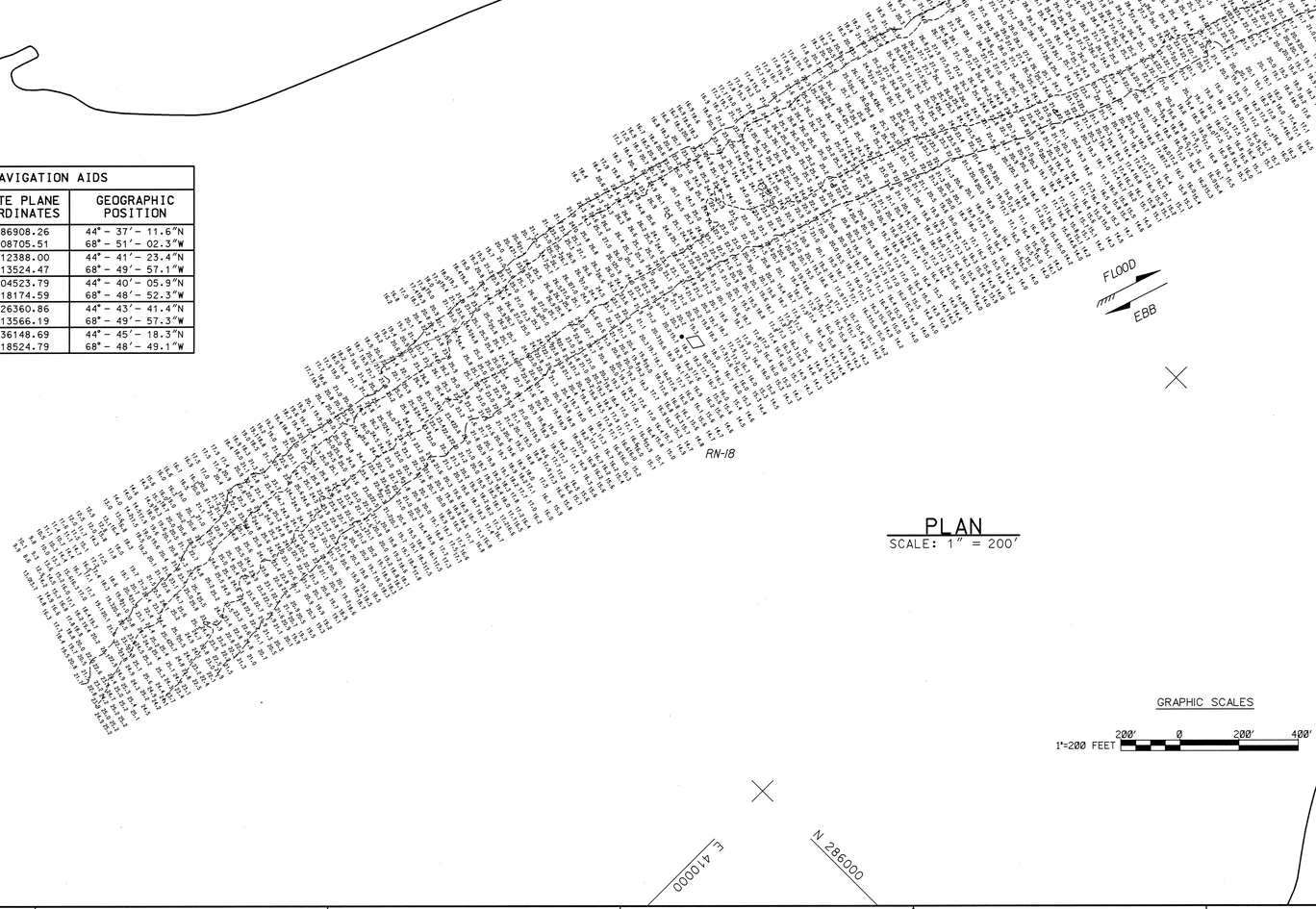


SHEET LAYOUT
NOT TO SCALE

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (M.L.L.W.).
2. Topography is from N.O.A.A. Chart No. 13309.
3. Bench Mark Data: B.M. 1 (1970) is a N.O.S. tidal bench mark disk set flush in the granite foundation of an old well, 59.0 feet (18.0 m) north of the center of Commercial Street and paved road north, and 30.5 feet (9.3 m) west of power light pole *575. Elevation is 22.46 feet above M.L.L.W. (B.M. 1 applies to sheets 1 thru 4)
   Bench Mark Data: B.M.4612 5 (1984) is an N.O.S. Tidal Survey Disk set flush in a concrete monument at the intersection of May and Front streets, 36 feet (11.0 m) west of the railroad crossing signal on the east side of the tracks, 10.5 feet (3.2 m) south of a power pole, 5 feet (1.5 m) north of the centerline of May Street and 4.5 feet (1.4 m) southeast of the railroad crossing signal on the west side of the tracks. Elevation is 26.85 feet above M.L.L.W. (B.M. 4612 5 applies to sheets 4 thru 8)
4. Coordinates are based on the Transverse Mercator System for the State of Maine (East Zone) and N.A.D. 1927.
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June and July 1997 and April 1998.
6. The information depicted on these maps represents the results of surveys made on the dates indicated, and can only be considered as indicating the general conditions existing at that time.
7. Field book: R & H 2167.
   Depthsounder rolls: 97-260-01 thru 97-260-09 and 98-318-01.
   See N.O.A.A. Chart No. 13309.
8. -15 foot contour shown thus: ——————————
   -22 foot contour shown thus: —·—·—·—·—·—·—·—
   -24 foot contour shown thus: ----------

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-18	6/17/97	N 286908.26 E 408705.51	44° – 37′ – 11.6″N 68° – 51′ – 02.3″W
RN-22	6/26/97	N 312388.00 E 413524.47	44° – 41′ – 23.4″N 68° – 49′ – 57.1″W
GC-19	6/26/97	N 304523.79 E 418174.59	44° – 40′ – 05.9″N 68° – 48′ – 52.3″W
RN-24	7/1/97	N 326360.86 E 413566.19	44° – 43′ – 41.4″N 68° – 49′ – 57.3″W
RN-28	7/1/97	N 336148.69 E 418524.79	44° – 45′ – 18.3″N 68° – 48′ – 49.1″W



PLAN
SCALE: 1" = 200′

GRAPHIC SCALES
1"=200 FEET
200′ 0 200′ 400′

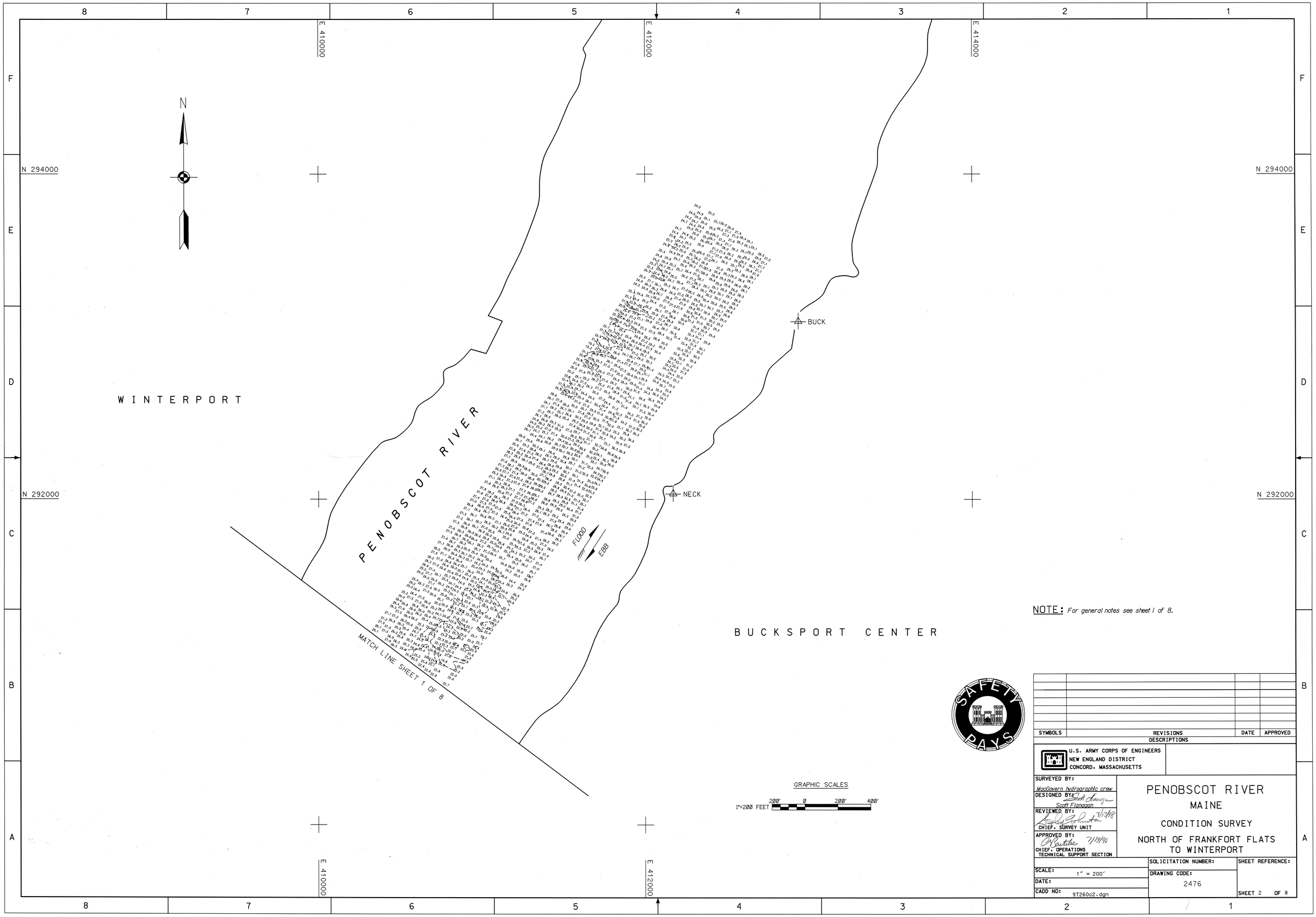
SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGovern hydrographic crew
DESIGNED BY: Scott Flanagan
REVIEWED BY: 7/3/98
CHIEF, SURVEY UNIT
APPROVED BY: 7/14/98
CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION

PENOBSCOT RIVER
MAINE
CONDITION SURVEY
NORTH OF FRANKFORT FLATS TO WINTERPORT

SCALE: 1" = 200′
DATE:
CADD NO: 97260c1.dgn
SOLICITATION NUMBER:
DRAWING CODE: 2476
SHEET REFERENCE:
SHEET 1 OF 8



GRAPHIC SCALES

1"=200 FEET 200' 0 200' 400'

NOTE: *For general notes see sheet 1 of 8.*

SAFETY PAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGovern hydrographic crew

DESIGNED BY: Scott Flanagan

REVIEWED BY: 7/13/98
CHIEF, SURVEY UNIT

APPROVED BY: 7/14/98
CHIEF, OPERATIONS
TECHNICAL SUPPORT SECTION

PENOBSCOT RIVER
MAINE
CONDITION SURVEY
NORTH OF FRANKFORT FLATS TO WINTERPORT

SCALE: 1" = 200'

DATE:

CADD NO: 97260c2.dgn

SOLICITATION NUMBER:

DRAWING CODE: 2476

SHEET REFERENCE:

SHEET 2 OF 8

Scanned Record Feb-2006

E 416000

E 418000

E 420000

E 422000

N 308000

N 306000

N 304000

OAK POINT

PENOBSCOT RIVER

GC-19

FLOOD

EBB

N

NOTE: *For general notes see sheet 1 of 8.*

GRAPHIC SCALES

1"=200 FEET 200' 0 200' 400'

SAFETY PAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGovern hydrographic crew

DESIGNED BY: Scott Flanagan

REVIEWED BY: CHIEF, SURVEY UNIT 7/13/98

APPROVED BY: CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION 7/14/98

PENOBSCOT RIVER
MAINE
CONDITION SURVEY
VICINITY OF OAK POINT

SCALE: 1" = 200'

DATE:

CADD NO: 97260c3.dgn

SOLICITATION NUMBER:

DRAWING CODE: 2476

SHEET REFERENCE: SHEET 3 OF 8

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

F
E
D
C
B
A

N 316000
N 314000
N 312000
E 414000
E 412000

N

BARTLETT COVE

BALD HILL

SNUB POINT

PENOBSCOT RIVER

BALD HILL COVE

RN-22

FLOOD
EBB

NOTE: *For general notes see sheet 1 of 8.*

GRAPHIC SCALES

1"=200 FEET 200′ 0 200′ 400′

SAFETY PAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGovern hydrographic crew

DESIGNED BY: Scott Flanagan — Scott Flanagan

REVIEWED BY: 7/3/98
CHIEF, SURVEY UNIT

APPROVED BY: 7/14/98
CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION

PENOBSCOT RIVER
MAINE
CONDITION SURVEY
VICINITY OF BALD HILL

SCALE: 1" = 200'
DATE:
CADD NO: 97260c4.dgn

SOLICITATION NUMBER:
DRAWING CODE: 2476

SHEET REFERENCE:
SHEET 4 OF 8

ORRINGTON

HAMPDEN HIGHLANDS

PENOBSCOT RIVER

RN-24

FLOOD

EBB

N

N 326000

N 324000

N 322000

N 320000

E 414000

E 412000

E 410000

NOTE: *For general notes see sheet 1 of 8.*

GRAPHIC SCALES

1"=200 FEET 200' 0 200' 400'

SAFETY PAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGavern hydrographic crew

DESIGNED BY: Scott Flanagan

REVIEWED BY: CHIEF, SURVEY UNIT 7/14/98

APPROVED BY: CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION 7/14/98

PENOBSCOT RIVER
MAINE
CONDITION SURVEY
VICINITY OF ORRINGTON

SCALE: 1" = 200'

DATE:

CADD NO: 97260c5.dgn

SOLICITATION NUMBER:

DRAWING CODE: 2476

SHEET REFERENCE: SHEET 5 OF 8

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

F | E | D | C | B | A

E 414000 | E 416000 | E 418000

N 334000 | N 332000

NEW NARROWS

N

CROSBY NARROWS

SOUDABSCOOK STREAM

HAMPDEN

NORTH ORRINGTON

FLOOD

EBB

PENOBSCOT RIVER

PIPELINE AREA
(APPROXIMATE)

GRAPHIC SCALES

1"=200 FEET 200' 0 200' 400'

NOTE: *For general notes see sheet 1 of 8.*

SAFETY PAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGavern hydrographic crew

DESIGNED BY: Scott Flanagan

REVIEWED BY: CHIEF, SURVEY UNIT 7/13/98

APPROVED BY: CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION 7/14/98

PENOBSCOT RIVER
MAINE
CONDITION SURVEY
VICINITY OF CROSBY NARROWS

SCALE: 1" = 200'

DATE:

CADD NO: 97260c6.dgn

SOLICITATION NUMBER:

DRAWING CODE: 2476

SHEET REFERENCE:

SHEET 6 OF 8

8 7 6 5 4 3 2 1

F E D C B A

E 418000 E 420000 E 422000

N 338000 N 336000

N

P E N O B S C O T R I V E R

H A R D Y H I L L

S E V E N P I N E P O I N T

NEW SEVEN PINE

RN-28

FLOOD

EBB

NOTE: *For general notes see sheet 1 of 8.*

GRAPHIC SCALES

1"=200 FEET 200' 0 200' 400'

SAFETY PAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGovern hydrographic crew

DESIGNED BY: Scott Flanagan

REVIEWED BY: CHIEF, SURVEY UNIT 7/14/98

APPROVED BY: CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION 7/14/98

PENOBSCOT RIVER
MAINE
CONDITION SURVEY
VICINITY OF SEVEN PINE POINT

SCALE: 1" = 200'

DATE:

CADD NO: 97260c7.dgn

SOLICITATION NUMBER:

DRAWING CODE: 2476

SHEET REFERENCE: SHEET 7 OF 8

8 7 6 5 4 3 2 1

E 420000 E 422000 E 424000 E 426000

F E D C B A

N 340000 N 342000 N 338000

N

EAST HAMPDEN

SOUTH BREWER

SEGEUNKEDUNK STREAM

STEARNS MILL SITE

FLOOD

EBB

PENOBSCOT RIVER

CRIB WORKS

NOTE: For general notes see sheet 1 of 8.

GRAPHIC SCALES

1"=200 FEET 200' 0 200' 400'

SAFETY PAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGavern hydrographic crew

DESIGNED BY: Scott Flanagan

REVIEWED BY: 7/1/98
CHIEF, SURVEY UNIT

APPROVED BY: 7/14/98
CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION

PENOBSCOT RIVER
MAINE
CONDITION SURVEY
VICINITY OF EAST HAMPDEN

SOLICITATION NUMBER:

SCALE: 1" = 200'

DRAWING CODE: 2476

DATE:

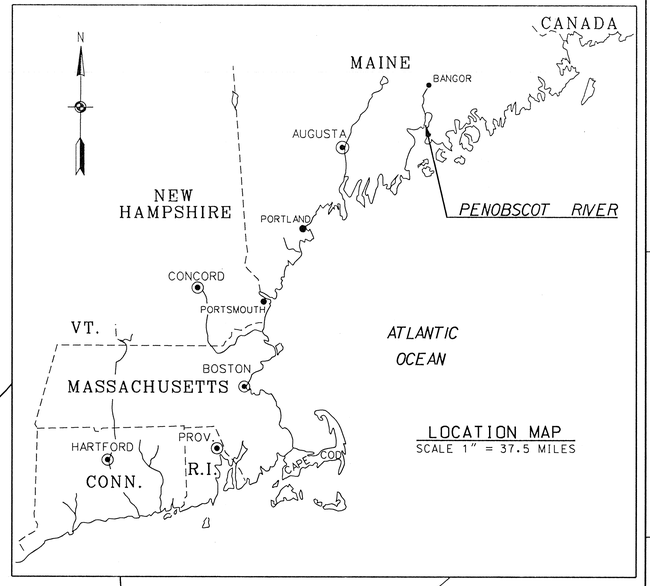
CADD NO: 97260c8.dgn

SHEET REFERENCE: SHEET 8 OF 8

E 416000

E 418000

COLLINS COVE



LOCATION MAP
SCALE 1" = 37.5 MILES

N 276000

NEW ENGLAND COAL COMPANY

GC-11

FLOOD

EBB

N 280000

PLAN
SCALE: 1" = 200'

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (M.L.L.W.).
2. Topography is from N.O.A.A. Chart No. 13309.
3. Bench Mark Data: B.M. CHAR (1961) is a U.S.E.D. disk set flush with the top of ledge. The name "CHAR" has been worn off. It is located 3.4 feet from horizontal control point "PIN". Elevation is 18.29 feet above M.L.L.W.
4. Coordinates are based on the Transverse Mercator System for the State of Maine (East Zone) and N.A.D. 1927.
5. The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June 1997.
6. 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.
7. Field book: R & H 3406.
   Depthsounder roll: 97-255-03.
   See N.O.A.A. Chart No. 13309.

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-11	6/5/97	N 279942.00 E 415293.00	44° - 36' - 03.1"N 68° - 49' - 30.8"W

GRAPHIC SCALES

1"=37.5 MI. 25 0 25 50 75 MI.

1"=200 FEET 200' 0 200' 400'

N 278000

E 412000

E 414000

SAFETY PAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGovern hydrographic crew

DRAWN BY: Scott Flanagan

REVIEWED BY: CHIEF, SURVEY UNIT

APPROVED BY: CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION

PENOBSCOT RIVER
MAINE
(AREA BETWEEN LAWRENCE COVE AND FRANKFORT FLATS)
CONDITION SURVEY

SCALE: As Shown

DATE: 12/22/97

CADD NO: 97255c3.dgn

SOLICITATION NUMBER:

DRAWING CODE: 2466

SHEET REFERENCE:

SHEET 1 OF 1

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-7	6/5/97	N 272699.00 E 417819.00	44° - 34′ - 51.7″N 68° - 48′ - 55.5″W
GC-9	6/5/97	N 275276.00 E 417712.00	44° - 35′ - 17.1″N 68° - 48′ - 57.1″W

N 276000 N 274000 N 272000

E 418000 E 416000

INDIAN POINT

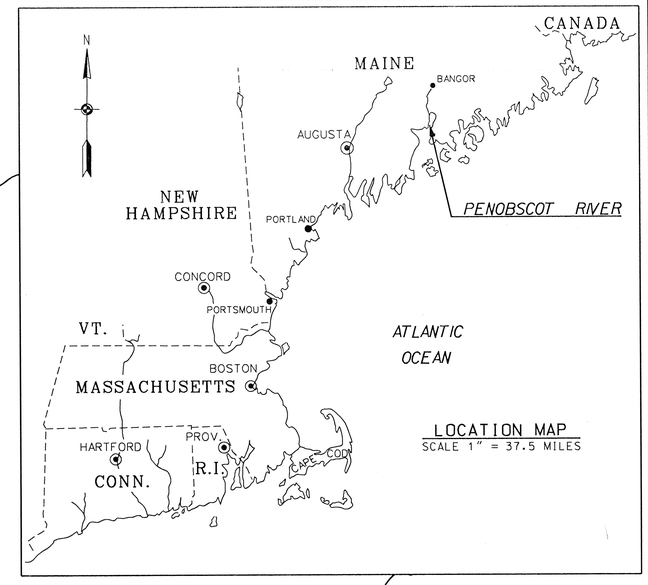
LAWRENCE COVE

22 - FOOT CHANNEL

GC-9 GC-7

FLOOD EBB

PENOBSCOT RIVER



LOCATION MAP
SCALE 1" = 37.5 MILES

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (M.L.L.W.).
2. Topography is from N.O.A.A. Chart No. 13309.
3. Bench Mark Data: B.M. CHAR (1961) is a U.S.E.D. disk set flush with the top of ledge. The name "CHAR" has been worn off. It is located 3.4 feet from horizontal control point "PIN". Elevation is 18.29 feet above M.L.L.W.
4. Coordinates are based on the Transverse Mercator System for the State of Maine (East Zone) and N.A.D. 1927.
5. The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June 1997.
6. 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.
7. Field book: R & H 3406.
   Depthsounder roll: 97-255-02.
   See N.O.A.A. Chart No. 13309.

GRAPHIC SCALES

1"=37.5 MI. 25 0 25 50 75 MI.

1"=200 FEET 200′ 0 200′ 400′

PLAN
SCALE: 1" = 200′

SAFETY DAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

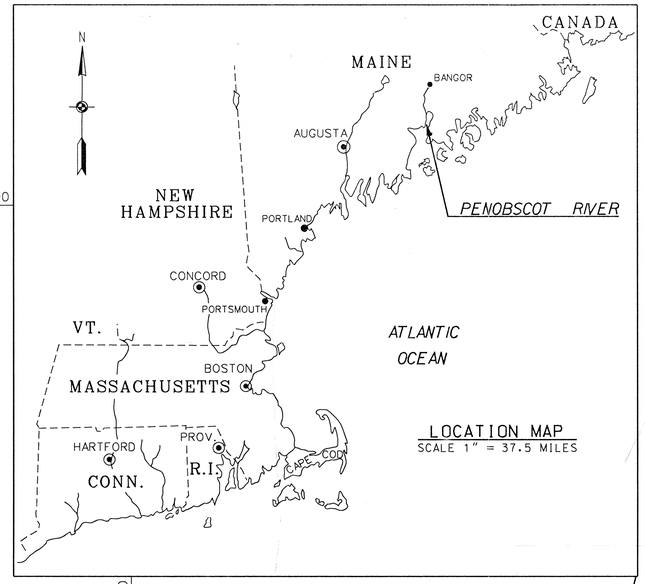
SURVEYED BY: MacGovern hydrographic crew
DRAWN BY: Scott Flanagan
REVIEWED BY: CHIEF, SURVEY UNIT
APPROVED BY: CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION

PENOBSCOT RIVER
MAINE
LAWRENCE COVE
CONDITION SURVEY
22 FOOT CHANNEL

SCALE: As Shown
DATE: 12/22/97
CADD NO: 97255c2.dgn

SOLICITATION NUMBER:
DRAWING CODE: 2465
SHEET REFERENCE:
SHEET 1 OF 1

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
RN-16	6/5/97	N 284280.00 E 408689.00	44° - 36′ - 45.7″N 68° - 51′ - 02.4″W
RN-14	6/5/97	N 281925.00 E 410257.00	44° - 36′ - 22.5″N 68° - 50′ - 40.5″W
GC-13	6/5/97	N 281102.00 E 412365.00	44° - 36′ - 14.4″N 68° - 50′ - 11.4″W



LOCATION MAP
SCALE 1" = 37.5 MILES

PENOBSCOT RIVER

RN-16

RN-14

GC-13

FLOOD

EBB

22 - FOOT CHANNEL

350′

N 284000

N 282000

N 280000

E 410000

E 412000

E 414000

BOWDEN POINT

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (M.L.L.W.).
2. Topography is from N.O.A.A. Chart No. 13309.
3. Bench Mark Data: B.M. CHAR (1961) is a U.S.E.D. disk set flush with the top of ledge. The name "CHAR" has been worn off. It is located 3.4 feet from horizontal control point "PIN". Elevation is 18.29 feet above M.L.L.W.
4. Coordinates are based on the Transverse Mercator System for the State of Maine (East Zone) and N.A.D. 1927.
5. The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June 1997.
6. 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.
7. Field book: R & H 3406.
   Depthsounder roll: 97-255-01.
   See N.O.A.A. Chart No. 13309.

PLAN
SCALE: 1" = 200′

GRAPHIC SCALES

1"=37.5 MI. 25 0 25 50 75 MI.

1"=200 FEET 200′ 0 200′ 400′

SAFETY PAYS

SYMBOLS	REVISIONS DESCRIPTIONS	DATE	APPROVED

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

SURVEYED BY: MacGovern hydrographic crew
DRAWN BY: Scott Flanagan
REVIEWED BY: CHIEF, SURVEY UNIT
APPROVED BY: CHIEF, OPERATIONS TECHNICAL SUPPORT SECTION

PENOBSCOT RIVER
MAINE
FRANKFORT FLATS
CONDITION SURVEY
22 FOOT CHANNEL

SCALE: As Shown
DATE: 12/22/97
CADD NO: 97255c1.dgn

SOLICITATION NUMBER:
DRAWING CODE: 2464
SHEET REFERENCE:
SHEET 1 OF 1