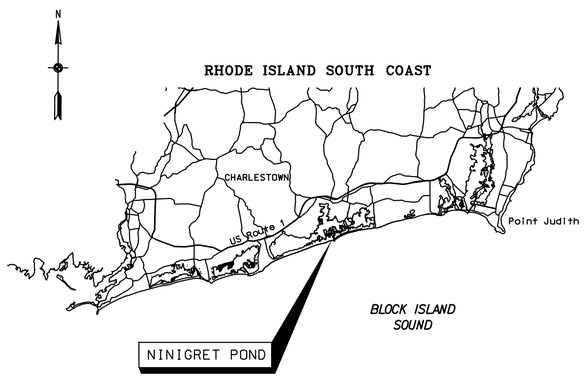
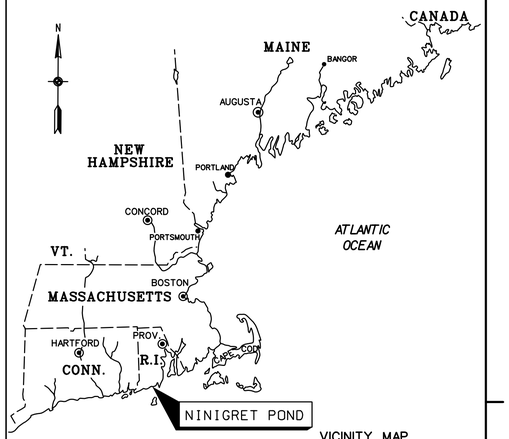
US Army Corps
of Engineers
New England District



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

HABITAT RESTORATION
NINIGRET POND

CHARLESTOWN,
RHODE ISLAND

SEE SPECIFICATIONS FOR DRAWING SIGNATURES

APPROVED FUNCTIONAL ADEQUACY
Christopher L. Hatfield /s/
TECHNICAL LEAD ENGINEER DATE:
REVIEWED BY:
Anthony T. Mackos /s/
CHIEF, DESIGN BRANCH DATE:
REVIEWED BY:
Raimo Liias /s/
CH, HTRW/GEOTECH ENGRG BR DATE:

RECOMMENDED BY:
H. Farrell Mcmillan /s/
DEPUTY CHIEF, E/P DIV DATE:
APPROVED BY:
David Dulong /s/ 5/19/2004
CHIEF, ENGRG/PLANNING DIV DATE:

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

THIS PROJECT WAS DESIGNED BY THE NEW ENGLAND DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEARING ON THESE PROJECT DOCUMENTS, WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 110-1-8152.

RHODE ISLAND SOUTH COAST
HABITAT RESTORATION
NINIGRET POND
CHARLESTOWN, RI

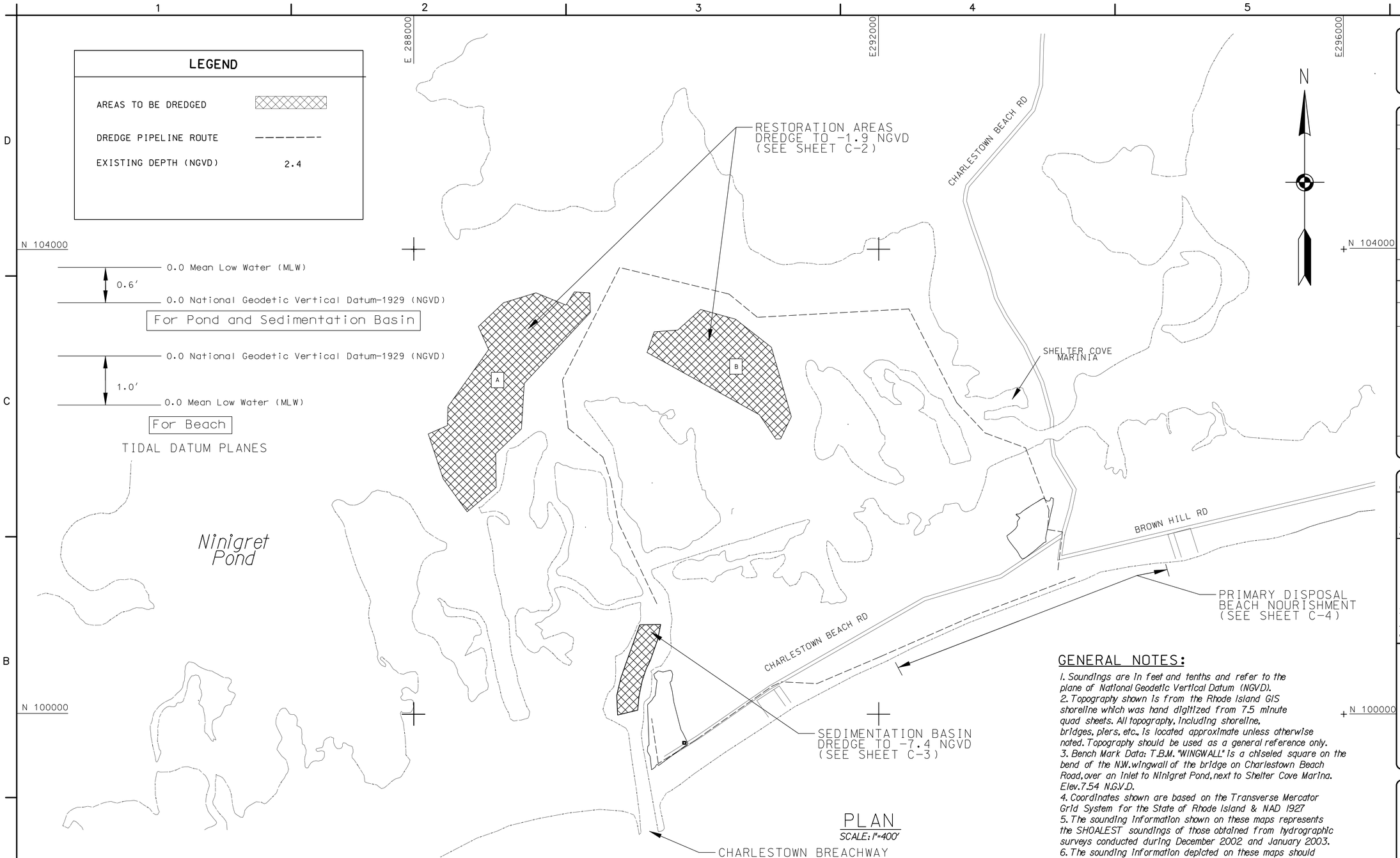
COVER SHEET

Reference number:
G-1
Sheet 1 of 5

VALUE ENGINEERING PAYS DIVIDENDS

SAFETY PAYS

SOLICITATION # W912WJ-04-B-0006



PLAN
SCALE: 1"=400'

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of National Geodetic Vertical Datum (NGVD).
2. Topography shown is from the Rhode Island GIS shoreline which was hand digitized from 7.5 minute quad sheets. 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: T.B.M. "WINGWALL" is a chiseled square on the bend of the N.W. wingwall of the bridge on Charlestown Beach Road, over an inlet to Ninigret Pond, next to Shelter Cove Marina. Elev. 7.54 N.G.V.D.
4. Coordinates shown are based on the Transverse Mercator Grid System for the State of Rhode Island & NAD 1927
5. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during December 2002 and January 2003.
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. Field Book: R&H 4498.
Depthsounder Rolls: 02-630-01 and 02-630-02.
See NOAA Chart No. 13205

GRAPHIC SCALE:
400 0 400 800
1" = 400'

DRWG CODE ???-123		INDEX TO DRAWINGS	
SHEET NO.		FILE NAME	TITLE
1	G-1	NINGBS.DGN	COVER SHEET
2	C-1	NINC101.S01	SITE PLAN, INDEX TO DRAWING, AND GENERAL NOTES
3	C-2	NINC102.S02	DREDGING OF RESTORATION AREAS PLAN AND SECTION
4	C-3	NINC103.S03	DREDGING OF INLET SEDIMENTATION BASIN PLAN AND SECTIONS
5	C-4	NINC104.S04	BEACH DISPOSAL

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Designed by: Bob Meader
Drawn by: Bob Meader
Reviewed by: ITR Review 5/19/04
Submitted by: Chief, Civil Engrg Sect
Date: Rev.
Design file no.
Drawing code:
File name: ninc101.s01
Plot date: Plot date:
Plot scale: 1" = 400'

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

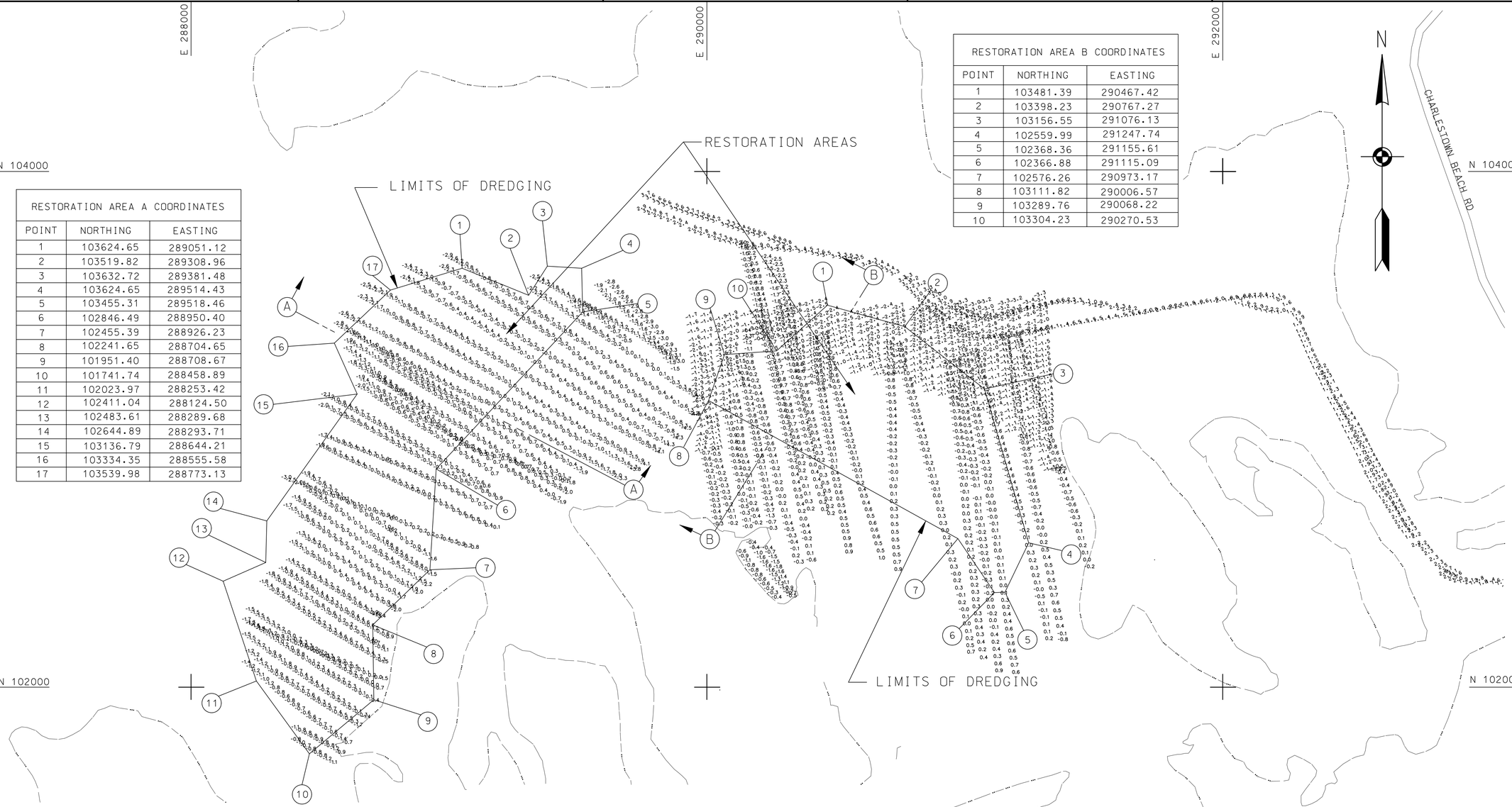
RHODE ISLAND SOUTH COAST
HABITAT RESTORATION
NINIGRET POND
CHARLESTOWN, RI

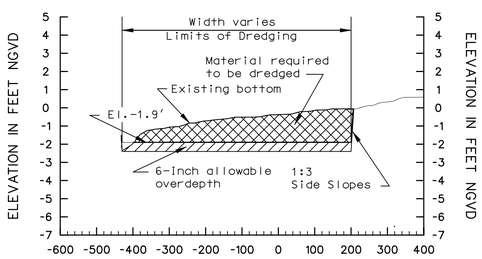
SITE PLAN, INDEX TO DRAWING, AND GENERAL NOTES

Reference number:
C-1
Sheet 2 of 5

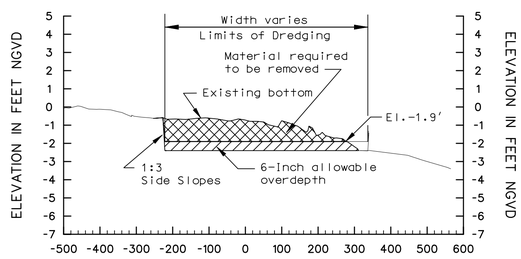
RESTORATION AREA A COORDINATES		
POINT	NORTHING	EASTING
1	103624.65	289051.12
2	103519.82	289308.96
3	103632.72	289381.48
4	103624.65	289514.43
5	103455.31	289518.46
6	102846.49	288950.40
7	102455.39	288926.23
8	102241.65	288704.65
9	101951.40	288708.67
10	101741.74	288458.89
11	102023.97	288253.42
12	102411.04	288124.50
13	102483.61	288289.68
14	102644.89	288293.71
15	103136.79	288644.21
16	103334.35	288555.58
17	103539.98	288773.13

RESTORATION AREA B COORDINATES		
POINT	NORTHING	EASTING
1	103481.39	290467.42
2	103398.23	290767.27
3	103156.55	291076.13
4	102559.99	291247.74
5	102368.36	291155.61
6	102366.88	291115.09
7	102576.26	290973.17
8	103111.82	290006.57
9	103289.76	290068.22
10	103304.23	290270.53





SECTION A–A (TYPICAL)
Horz. Scale 1"=200'
Vert. Scale 1"=4'



SECTION B–B (TYPICAL)
Horz. Scale 1"=200'
Vert. Scale 1"=4'

PLAN
SCALE: 1"=200'

GRAPHIC SCALES:
1" = 4'
1" = 200'

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

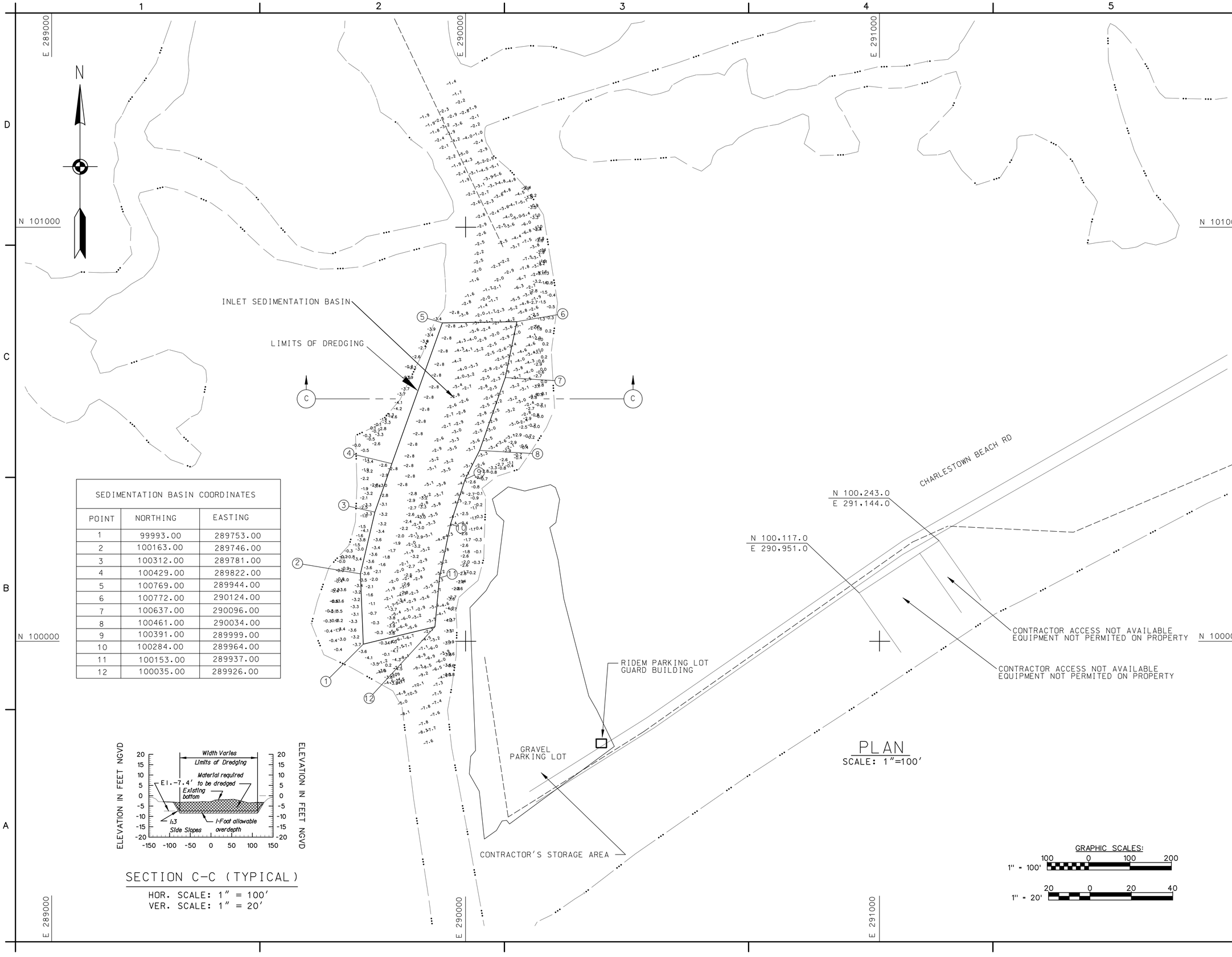
Designed by: Bob Meader
Drawn by: Bob Meader
Reviewed by: ITR Review 5/19/04
Submitted by: Chief, Civil Engrg Sect
Date:
Rev.
Design file no.
Design file no.
Drawing code:
Drawing code:
File name: nlnc02.s02
Plot date: Plot date:
Plot scale: 1" = 200'

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

RHODE ISLAND SOUTH COAST
HABITAT RESTORATION
NINIGRET POND
CHARLESTOWN, RI

DREDGING OF RESTORATION AREAS
PLAN AND SECTIONS

Reference number:
C–2
Sheet 3 of 5



PLAN
SCALE: 1"=100'

SEDIMENTATION BASIN COORDINATES		
POINT	NORTHING	EASTING
1	99993.00	289753.00
2	100163.00	289746.00
3	100312.00	289781.00
4	100429.00	289822.00
5	100769.00	289944.00
6	100772.00	290124.00
7	100637.00	290096.00
8	100461.00	290034.00
9	100391.00	289999.00
10	100284.00	289964.00
11	100153.00	289937.00
12	100035.00	289926.00

SECTION C-C (TYPICAL)
HOR. SCALE: 1" = 100'
VER. SCALE: 1" = 20'

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

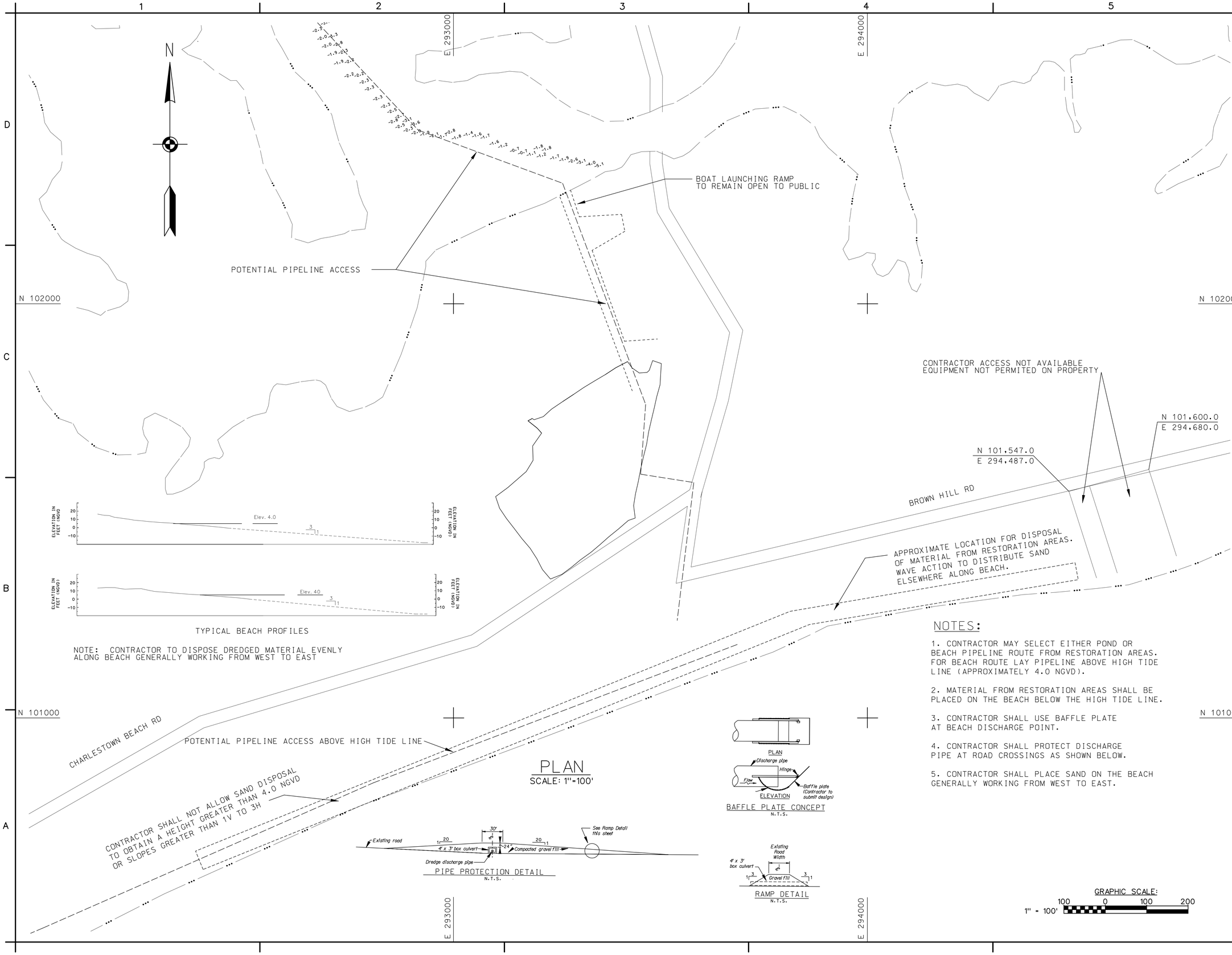
Designed by: Bob Meader
Drawn by: Bob Meader
Reviewed by: ITR Review 5/19/04
Submitted by: Chief, General Engrg Sect
Date:
Rev.
Design file no.
Design file no.
Drawing code:
Drawing code:
File name: ninc103.s03
Plot date: Plot date:
Plot scale: 1" =100'

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

RHODE ISLAND SOUTH COAST
HABITAT RESTORATION
NINIGRET POND
CHARLESTOWN, RI

DREDGING OF INLET SEDIMENTATION BASIN
PLAN AND SECTIONS

Reference number:
C-3
Sheet 4 of 5



NOTES:

1. CONTRACTOR MAY SELECT EITHER POND OR BEACH PIPELINE ROUTE FROM RESTORATION AREAS. FOR BEACH ROUTE LAY PIPELINE ABOVE HIGH TIDE LINE (APPROXIMATELY 4.0 NGVD).

2. MATERIAL FROM RESTORATION AREAS SHALL BE PLACED ON THE BEACH BELOW THE HIGH TIDE LINE.

3. CONTRACTOR SHALL USE BAFFLE PLATE AT BEACH DISCHARGE POINT.

4. CONTRACTOR SHALL PROTECT DISCHARGE PIPE AT ROAD CROSSINGS AS SHOWN BELOW.

5. CONTRACTOR SHALL PLACE SAND ON THE BEACH GENERALLY WORKING FROM WEST TO EAST.

US Army Corps of Engineers
New England District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Designed by: Bob Meader	Date:	Rev.	
Drawn by: Bob Meader	Design file no. Design file no.		
Reviewed by: ITR Review 5/19/04	Drawing code: Drawing code:		
Submitted by: Chief, Civil Engrg. Sect.	File name: nlnc104.s04 Plot date: Plot date: Plot scale: 1" = 100'		

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

RHODE ISLAND SOUTH COAST
HABITAT RESTORATION
NINIGRET POND
CHARLESTOWN, RI

BEACH DISPOSAL

Reference number:
C-4

Sheet 5 of 5