FIGURE 1

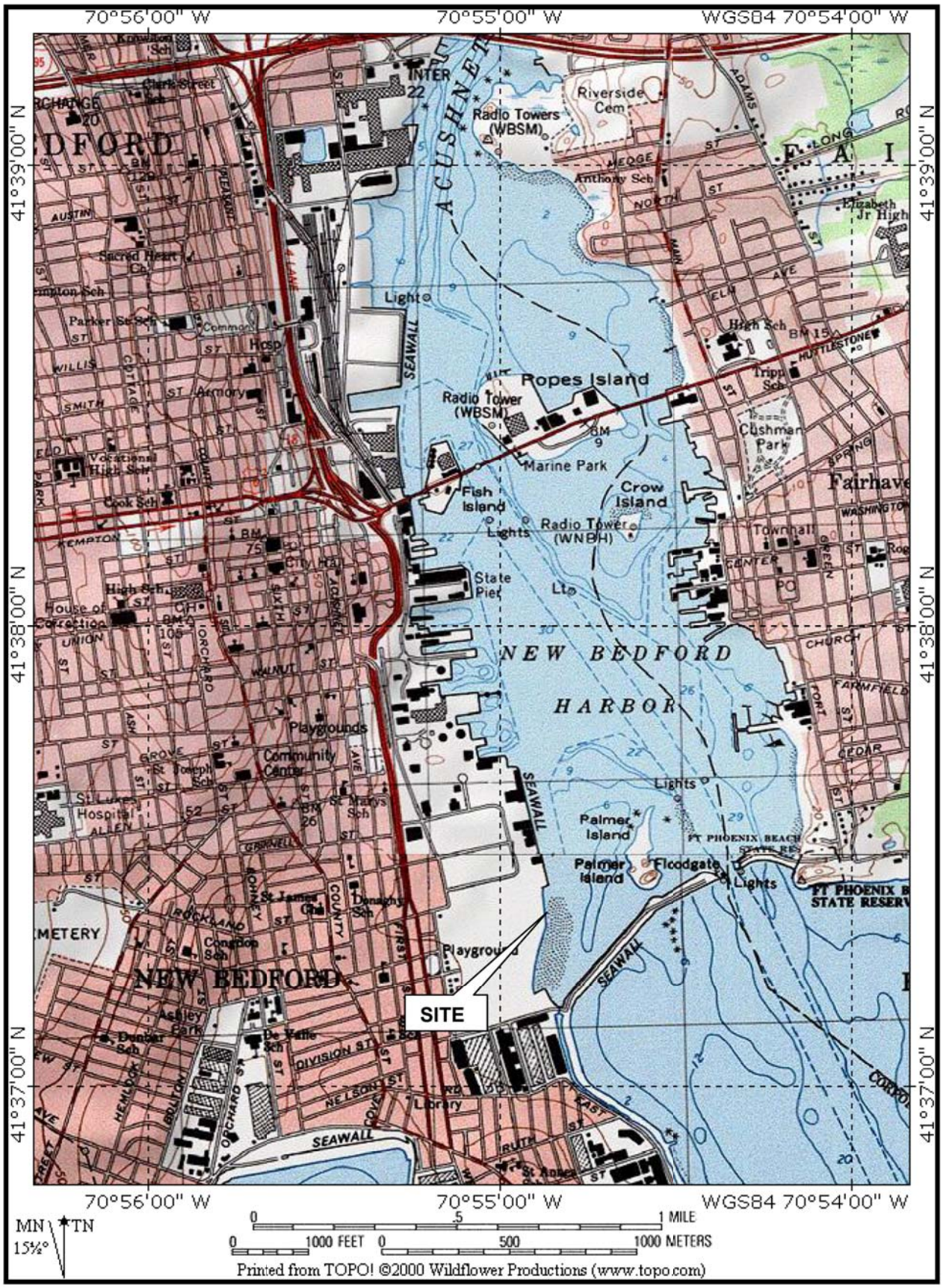

Figure 1: Site Location Map

FIGURE 2

Apex Companies, LLC.

1 WAMSUTTA STREET
SUITE 8
NEW BEDFORD, MA 02740
(508) 996-9828

184 HIGH STREET
SUITE 502
BOSTON MA 02110
(617) 728-0070

REVISIONS

NO.	DATE	DESCRIPTION

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PREPARED FOR:

COMMONWEALTH OF MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD MARINE COMMERCE TERMINAL

Scale: 1"=150'

0 75 150 300 450 FEET

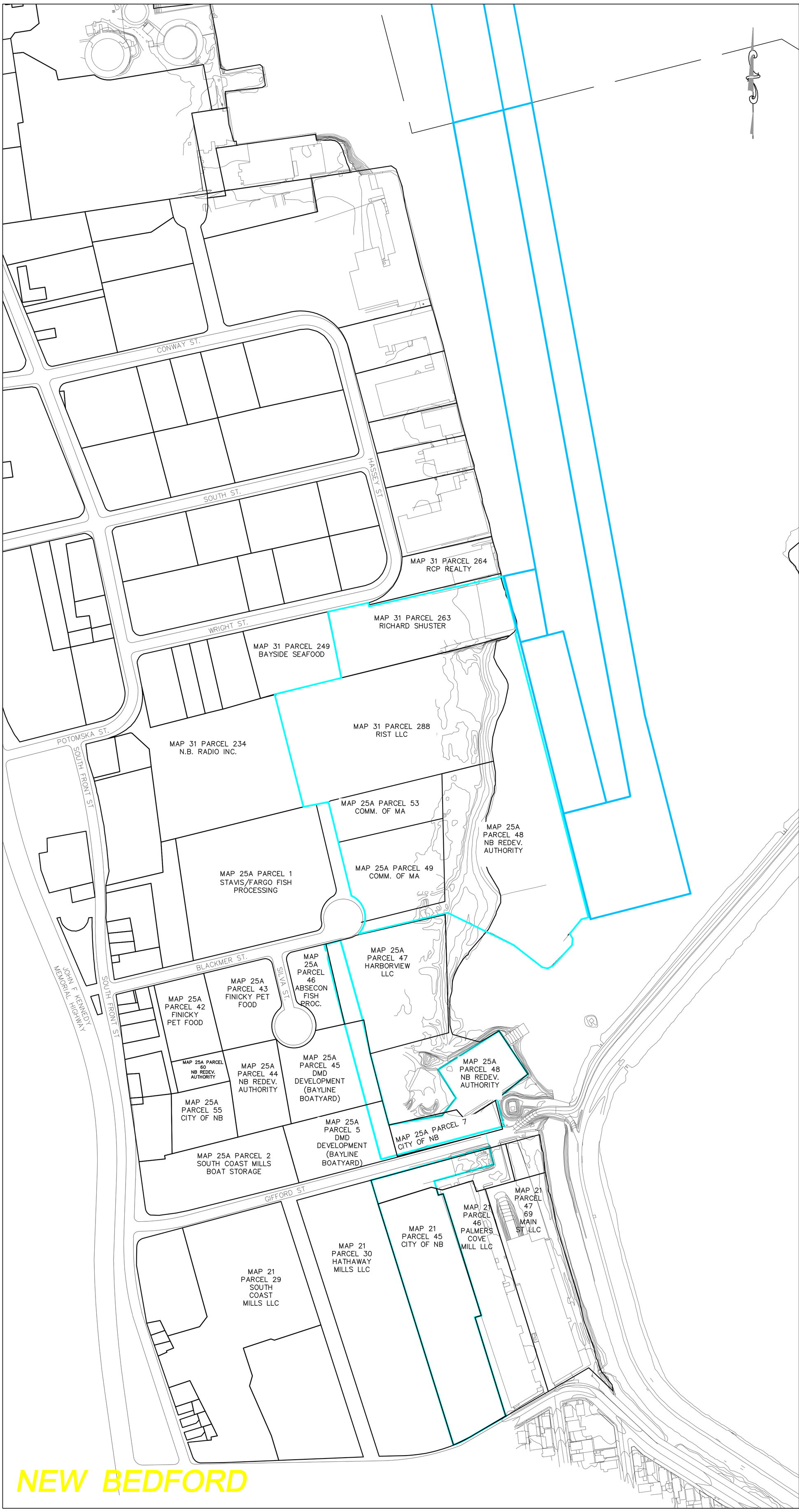
Date	7/13/11
Proj. Mgr.	JAB
Design	CWM
Check	CHM
Drawn	GCD
Job. No.	6690
Last Rev.	7/13/11

Drawing No.

P-3

P:\Jobs\6690 NBH_ Phase IV\PLANS\CAPEWIND\OLD\SOUTH_TERMINAL_NEW_FOOTPRINT_7_13_11.dwg

FIGURE 3



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PREPARED FOR:

COMMONWEALTH OF MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD MARINE COMMERCE TERMINAL

Scale: 1"=150'

0 75 150 300 450 FEET

Date	7/13/11
Proj. Mgr.	JAB
Design	CWM
Check	CHM
Drawn	GCD
Job. No.	6690
Last Rev.	9/18/11

Drawing No.

P-3

FIGURE 4

Designated Port Area:
NEW BEDFORD - FAIRHAVEN

Scale: 1"=500'

0 — 1500 ft — 1/4 mile

N

DESIGNATED PORT AREA

Designated Port Areas in their entirety are priority areas for state and federal funding of maritime industrial uses. In addition, DPA lands and water lying seaward of the natural high water mark* are subject to DEQE jurisdiction under M.G.L. ch. 91 (waterways licensing).

*"Natural High Water Mark" means, for tidelands, the tide lines that would be observed except for alteration of the shoreline by filling, dredging, or impounding. Absent a clear showing that lands landward of the present high water mark are no longer inundated as a result of entirely natural processes, the DEQE presumes that the natural high watermark is the farthest landward former shoreline that can be ascertained with reference to land surveys or soil logs, historic maps or charts, and other documents or information sources, or by other methods deemed appropriate and reliable by the Department.

* NATURAL HIGH WATER MARK

Compiled from maps by G. Russel 1815, J. Congdon 1834, U.S. Coastal Survey 1846, H. Walling 1851, and R. Ingraham 1857.

* the thin line indicates the natural high water mark; broader shaded line added only for visual emphasis

Dept. of Environmental Quality Engineering
Division of Wetlands and Waterways Regulation

Coastal Zone Management

Base map: NOAA Nautical Chart No. 13230, May 1985 Ed., USGS Quad. sheets and local maps.

FIGURE 5

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184 HIGH STREET
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(617) 728-0070

REVISIONS

NO.	DATE	DESCRIPTION
1.	2/11/10	PRELIMINARY LAYOUT
2.	4/09/10	PRELIMINARY ASSESSMENT
3.	4/15/10	FIELD LOCATION
4.	7/07/10	ADD. FED. RESOURCE
5.	8/24/10	FINAL BULKHEAD ALIGNMENT

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INTER-TIDAL

SUB-TIDAL

INTER-TIDAL SALT MARSH

APEX TEST PIT

PREPARED FOR:

COMMONWEALTH
OF
MASSACHUSETTS

DRAWING TITLE:

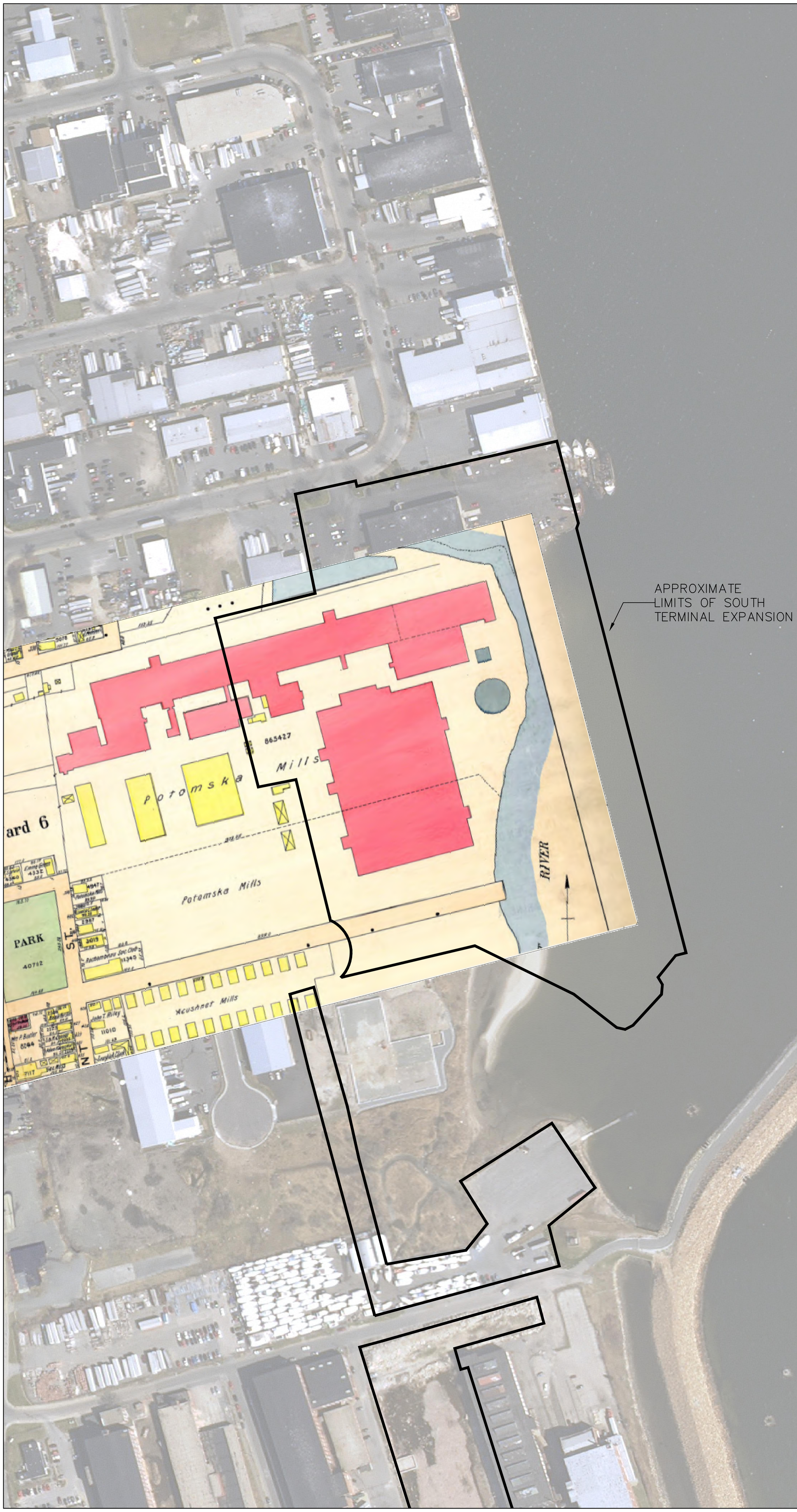
NEW BEDFORD MARINE
COMMERCE TERMINAL
FEDERAL RESOURCE
AREA ASSESSMENT

Scale: 1"=150'

0 75 150 300 450 FEET

Date	3/24/10	Drawing No.
Proj. Mgr.		
Design		
Check	CM	
Drawn	GCD	
Job. No.	6615	
Last Rev.	7/7/10	

FIGURE 6



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PREPARED FOR:

COMMONWEALTH
OF
MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD MARINE
COMMERCE TERMINAL
1911 POTOMSKA MILLS
OVERLAY

Scale: 1"=100'

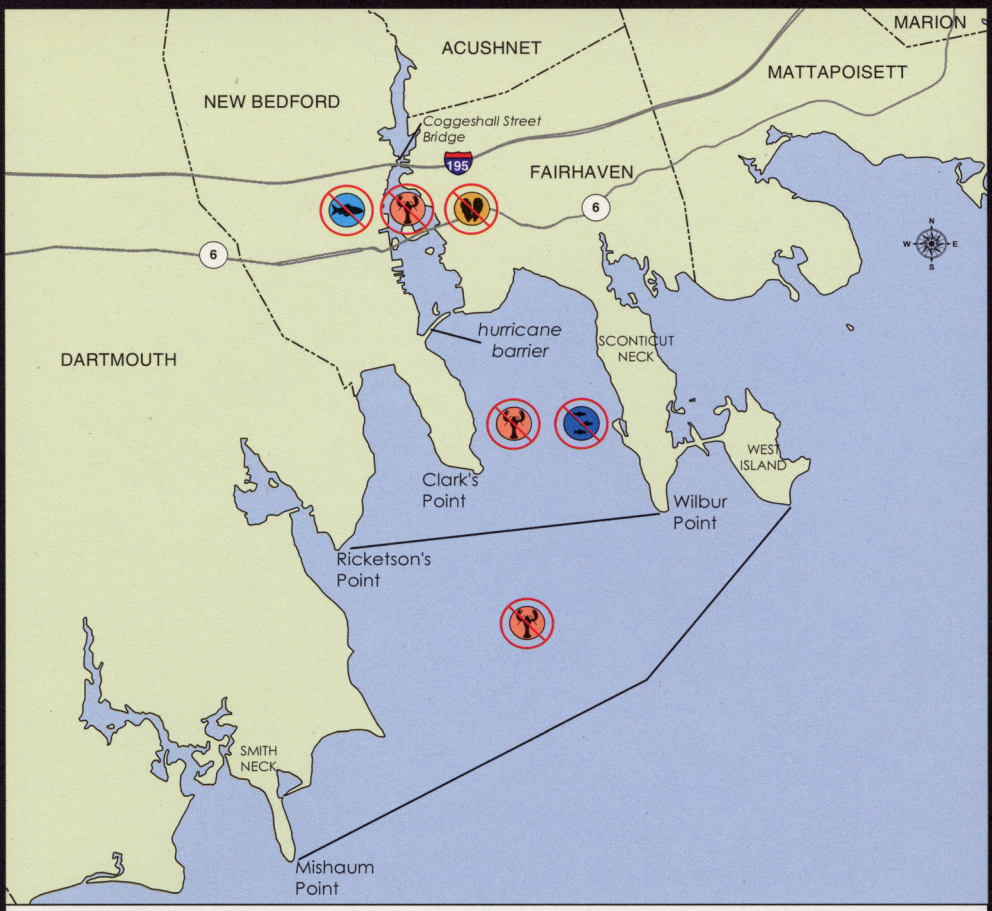
0 50 100 200 300 FEET

Date	6/5/10
Proj. Mgr.	JAB
Design	GCD
Check	CM
Drawn	GCD
Job. No.	6690.002
Last Rev.	7/7/10

Drawing No.

FIGURE 7

Fish Smart—Use this Chart



Fish Smart-Use this Chart
¡Pesque con cabeza! Utilice esta gráfica
Pesque esperto-Use este mapa

Don't eat any fish
No coma pescado
Não coma peixe

Don't eat any lobster
No coma langosta
Não coma lagosta

Don't eat any shellfish
No coma mariscos
Não coma mariscos

Don't eat any bottom fish:
No coma pescado de fondo:
Não coma peixe de fundo:

- flounder
- lenguado
- solha

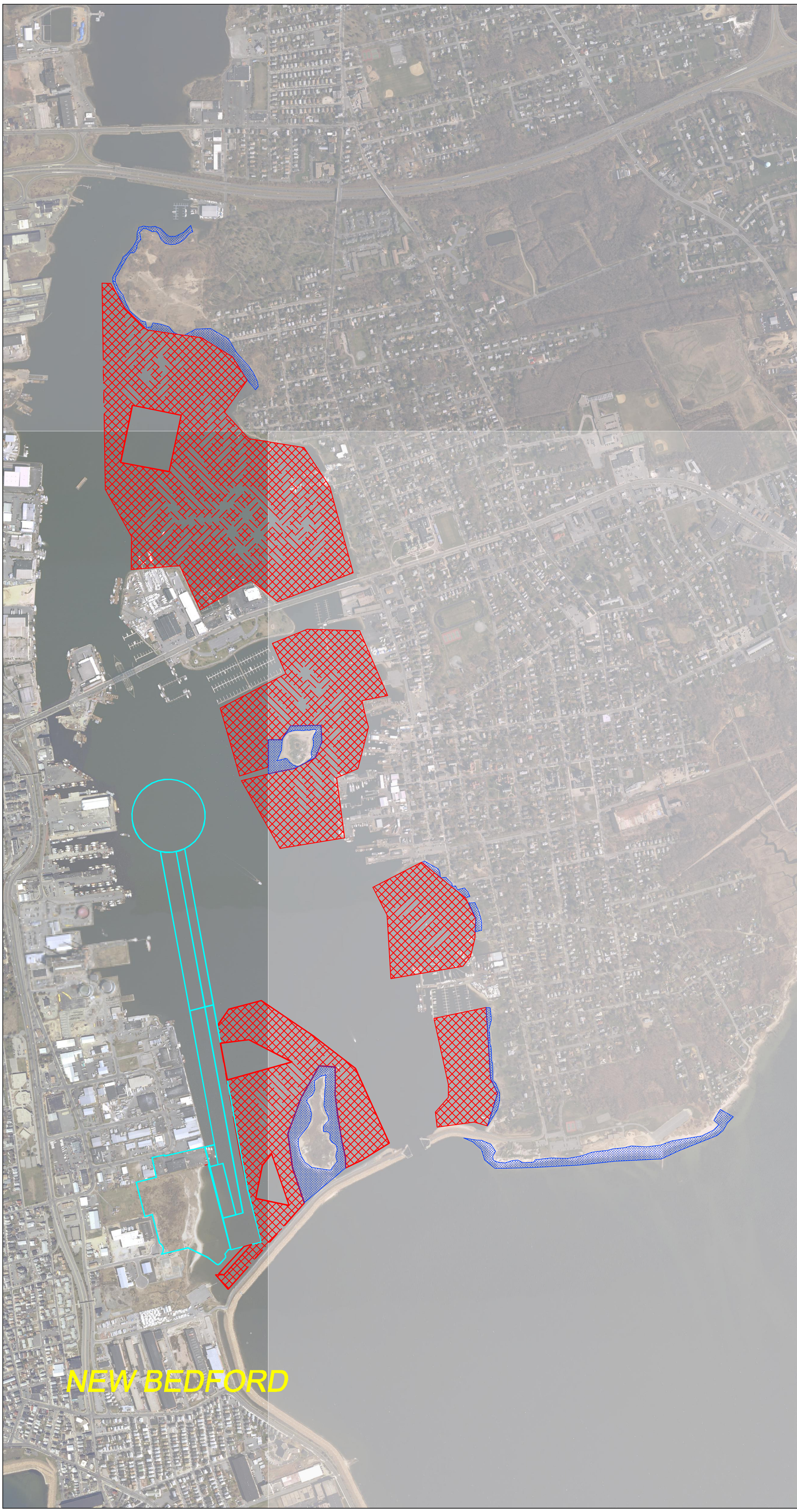
- tautog
- tautoga
- bodião da ostra

- scup
- sargo
- sargo

- eel
- anguila
- anguila

Map Produced By The US EPA New England GIS Center
30 May 2003

FIGURE 8



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3.	4/15/10	FIELD LOCATION
4.	7/07/10	ADD. FED. RESOURCE

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SUB-TIDAL
(0 TO -16 FT MLLW)

INTERTIDAL

PREPARED FOR:

COMMONWEALTH
OF
MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD MARINE COMMERCE TERMINAL SIMILAR HABITATS WITHIN NEW BEDFORD HARBOR

Scale: 1"=500'

0 250 500 1000 1500 FEET

Date 3/24/10	Drawing No.
Proj. Mgr.	
Design	
Check CM	
Drawn GCD	
Job. No. 6690	
Last Rev. 8/19/11	

FIGURE 9

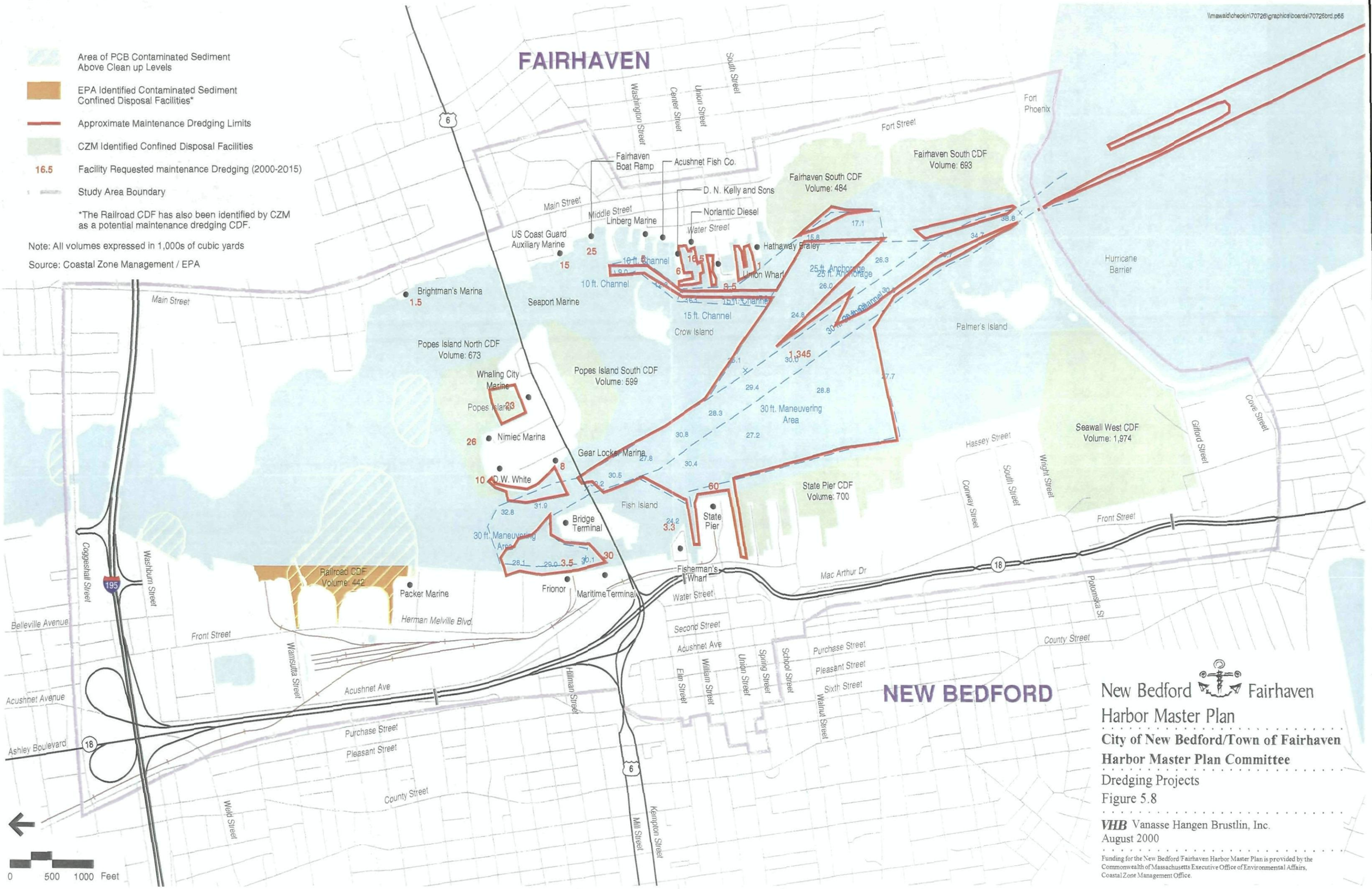
\\mawald\checkin\70726\graphics\boards\70726brd.p65
Area of PCB Contaminated Sediment Above Clean up Levels
EPA Identified Contaminated Sediment Confined Disposal Facilities*
Approximate Maintenance Dredging Limits
CZM Identified Confined Disposal Facilities
16.5 Facility Requested maintenance Dredging (2000-2015)
Study Area Boundary
*The Railroad CDF has also been identified by CZM as a potential maintenance dredging CDF.
Note: All volumes expressed in 1,000s of cubic yards
Source: Coastal Zone Management / EPA
FAIRHAVEN
NEW BEDFORD
Washington Street
Center Street
Union Street
South Street
Fort Street
Fort Phoenix
Fairhaven Boat Ramp
Acushnet Fish Co.
D. N. Kelly and Sons
Norlantic Diesel
Fairhaven South CDF Volume: 484
Fairhaven South CDF Volume: 693
Main Street
Middle Street
Linberg Marine
Water Street
US Coast Guard Auxiliary Marine
Hathaway Braley
Union Wharf
10 ft. Channel
15 ft. Channel
25 ft. Anchorage
Hurricane Barrier
Brightman's Marina
Seaport Marine
Crow Island
Palmer's Island
Popes Island North CDF Volume: 673
Whaling City Marine
Popes Island
Popes Island South CDF Volume: 599
30 ft. Maneuvering Area
Nimiec Marina
Gear Locker Marina
D.W. White
Seawall West CDF Volume: 1,974
Hassey Street
Gifford Street
Cove Street
Conway Street
South Street
Wright Street
State Pier CDF Volume: 700
Fish Island
Bridge Terminal
State Pier
Front Street
Railroad CDF Volume: 442
Packer Marine
Frionor
Maritime Terminal
Fisherman's Wharf
Mac Arthur Dr
Potomska St.
Coggeshall Street
Washburn Street
Belleville Avenue
Herman Melville Blvd.
Second Street
Acushnet Ave
Purchase Street
Pleasant Street
Sixth Street
County Street
Wamsutta Street
Hillman Street
Elm Street
William Street
Union Street
Spring Street
School Street
Walnut Street
Acushnet Avenue
Ashley Boulevard
Weld Street
Mill Street
Kempton Street
0 500 1000 Feet
New Bedford Fairhaven
Harbor Master Plan
City of New Bedford/Town of Fairhaven
Harbor Master Plan Committee
Dredging Projects
Figure 5.8
VHB Vanasse Hangen Brustlin, Inc.
August 2000
Funding for the New Bedford/Fairhaven Harbor Master Plan is provided by the Commonwealth of Massachusetts Executive Office of Environmental Affairs, Coastal Zone Management Office.

FIGURE 10

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(617) 728-0070
184 HIGH STREET, SUITE 502
BOSTON MA 02110
(617) 728-0070

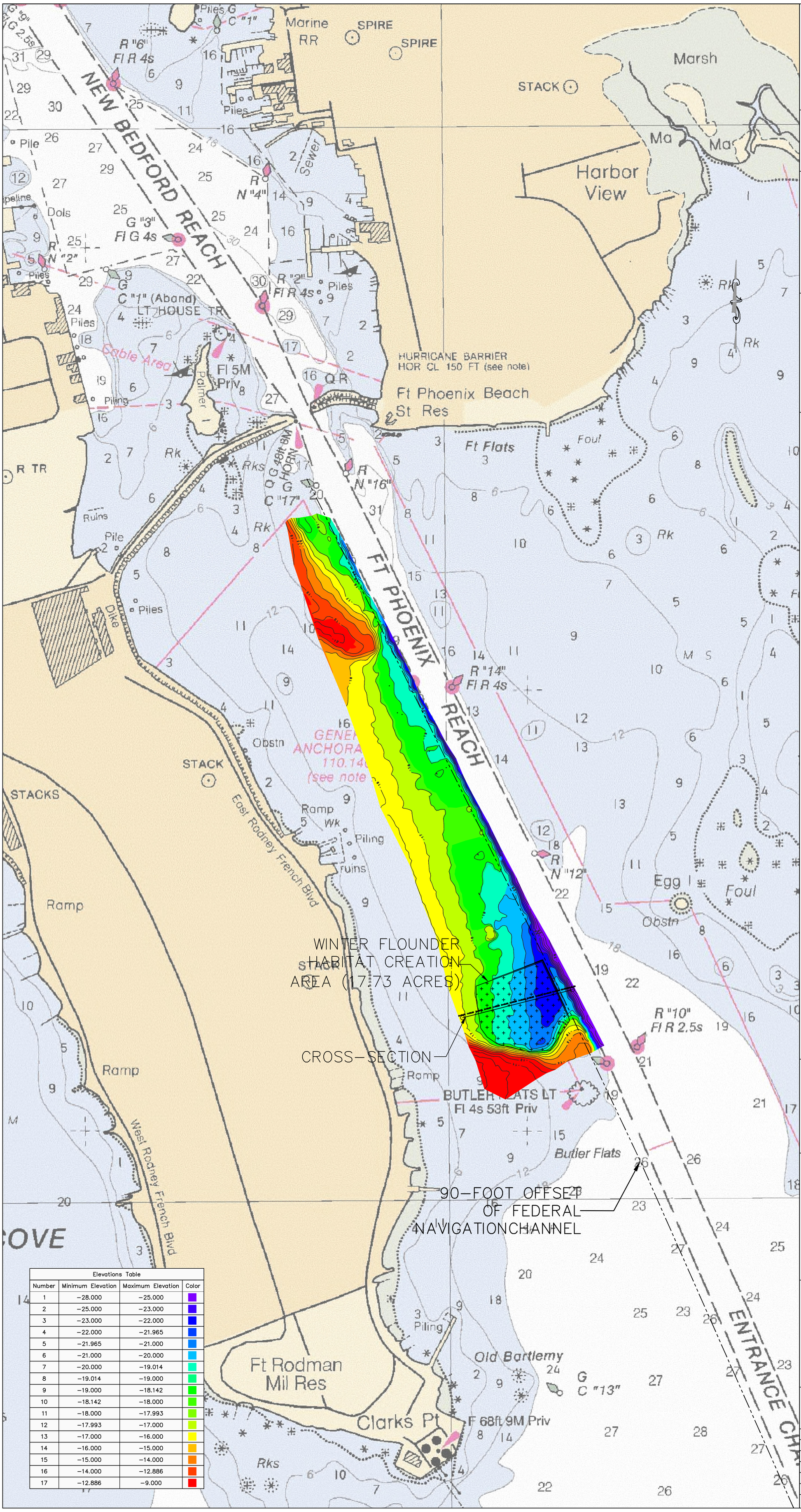
Mitigation Areas Locus Map

NEW BEDFORD MARINE COMMERCE TERMINAL
NEW BEDFORD, MA

Scale: 1"=1500'

0 750 1500 2250

FIGURE 11



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−28.000	−25.000	
2	−25.000	−23.000	
3	−23.000	−22.000	
4	−22.000	−21.965	
5	−21.965	−21.000	
6	−21.000	−20.000	
7	−20.000	−19.014	
8	−19.014	−19.000	
9	−19.000	−18.142	
10	−18.142	−18.000	
11	−18.000	−17.993	
12	−17.993	−17.000	
13	−17.000	−16.000	
14	−16.000	−15.000	
15	−15.000	−14.000	
16	−14.000	−12.886	
17	−12.886	−9.000	

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2.	12/15/10	BATHY UPDATED

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PREPARED FOR:

COMMONWEALTH
OF
MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD MARINE
COMMERCE TERMINAL
WINTER FLOUNDER
MITIGATION AREA

Scale: 1"=500'

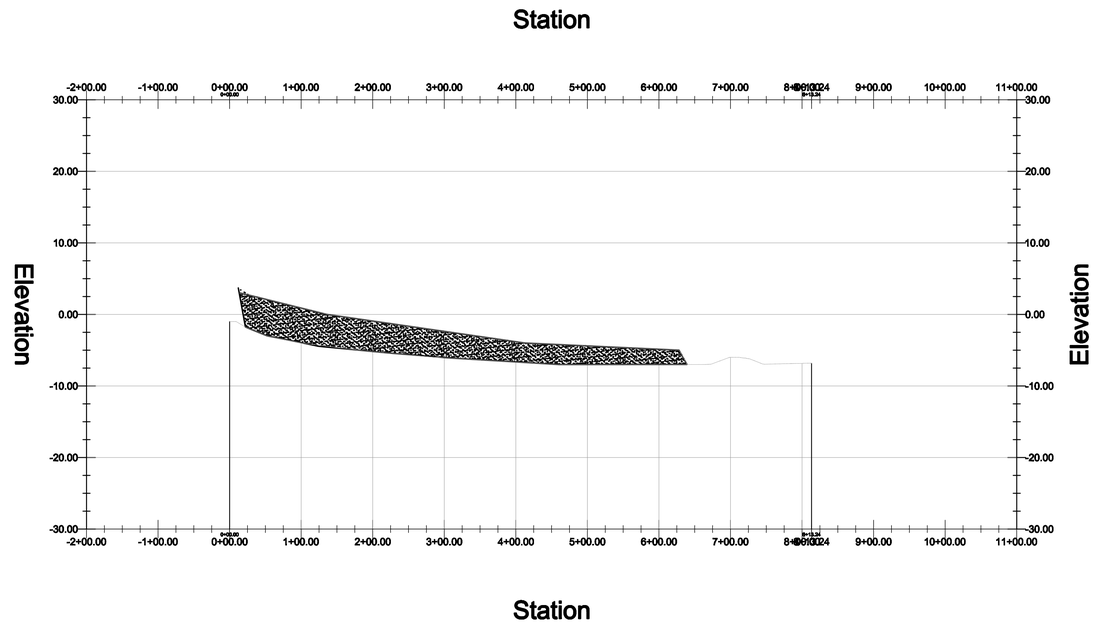
0 250 500 1000 1500 FEET

Date	6/5/10
Proj. Mgr.	JAB
Design	GCD
Check	CM
Drawn	GCD
Job. No.	6690.002
Last Rev.	9/20/11

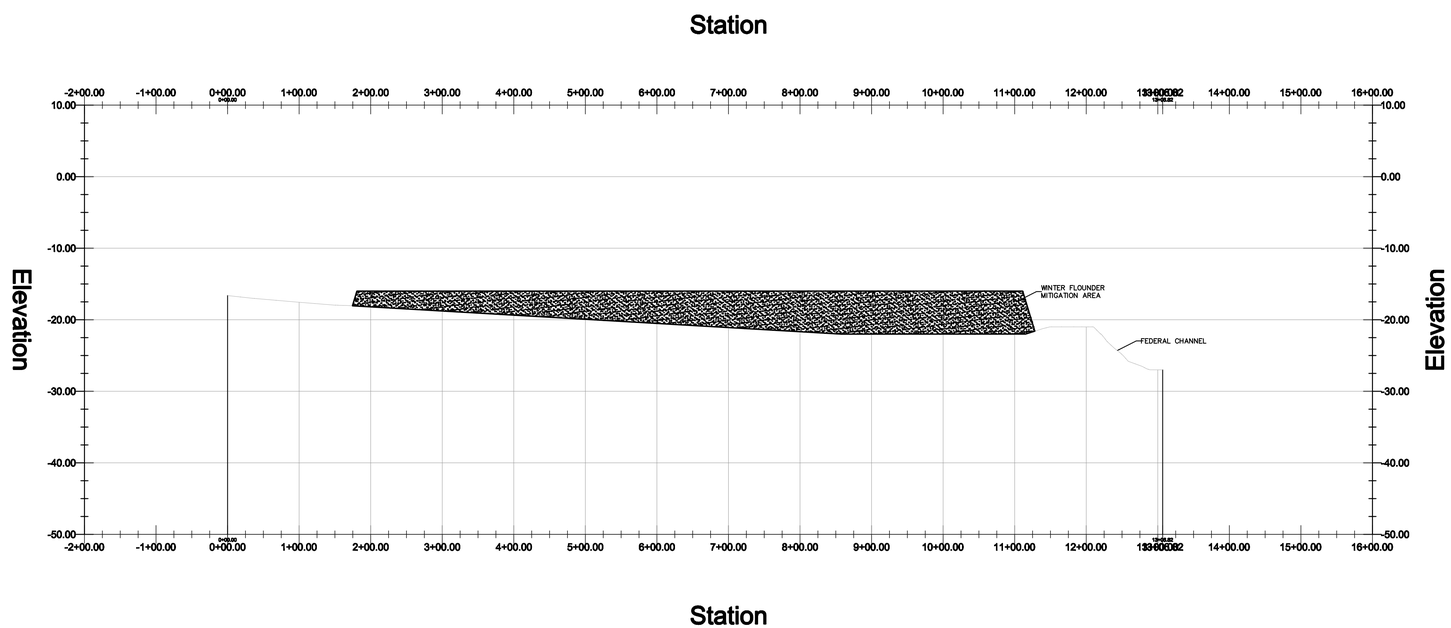
Drawing No.

FIGURE 12

PROFILE VIEW OF PROPOSED MITIGATION AREA AT OU#3 PILOT CAP AREA



WINTER FLOUNDER MITIGATION AREA CROSS SECTION



APEX

ROCKVILLE, MD
SOUTH WINDSOR, CT - BOSTON, MA - NEW BEDFORD, MA - HOLYOKE, MA

184 HIGH STREET, SUITE 502
BOSTON, MA 02210

58H CONNECTICUT AVENUE
SOUTH WINDSOR, CT

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100% DESIGN FOR REVIEW SET
NOT FOR CONSTRUCTION

PROJECT
NEW BEDFORD MARINE COMMERCE TERMINAL

OWNER
MASSACHUSETTS CLEAN ENERGY CENTER
55 SUMMER STREET, 9TH FLOOR
BOSTON, MA

NO.	DATE	DESCRIPTION	BY

PROJECT NO.	6690
CADD FILE	MIT_OU3_FLNDR
DESIGNED BY	CWM
DRAWN BY	CWM
CHECKED BY	CHM
DATE	8-8-11
DRAWING SCALE	NTS

GRAPHIC SCALE

SHEET TITLE

OU-3 CAPPING AREA CROSS SECTIONS

DRAWING NO.

X-5

PLOT SCALE 1"=1'

P:\Jobs\6690 NBH_ Phase IV\PLANS\FINAL_PLANS\P-MITIGATION_OU3_FLOUNDER.dwg

FIGURE 13

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PREPARED FOR:

COMMONWEALTH OF MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD MARINE COMMERCE TERMINAL SUBTIDAL/INTERTIDAL MITIGATION AREAS

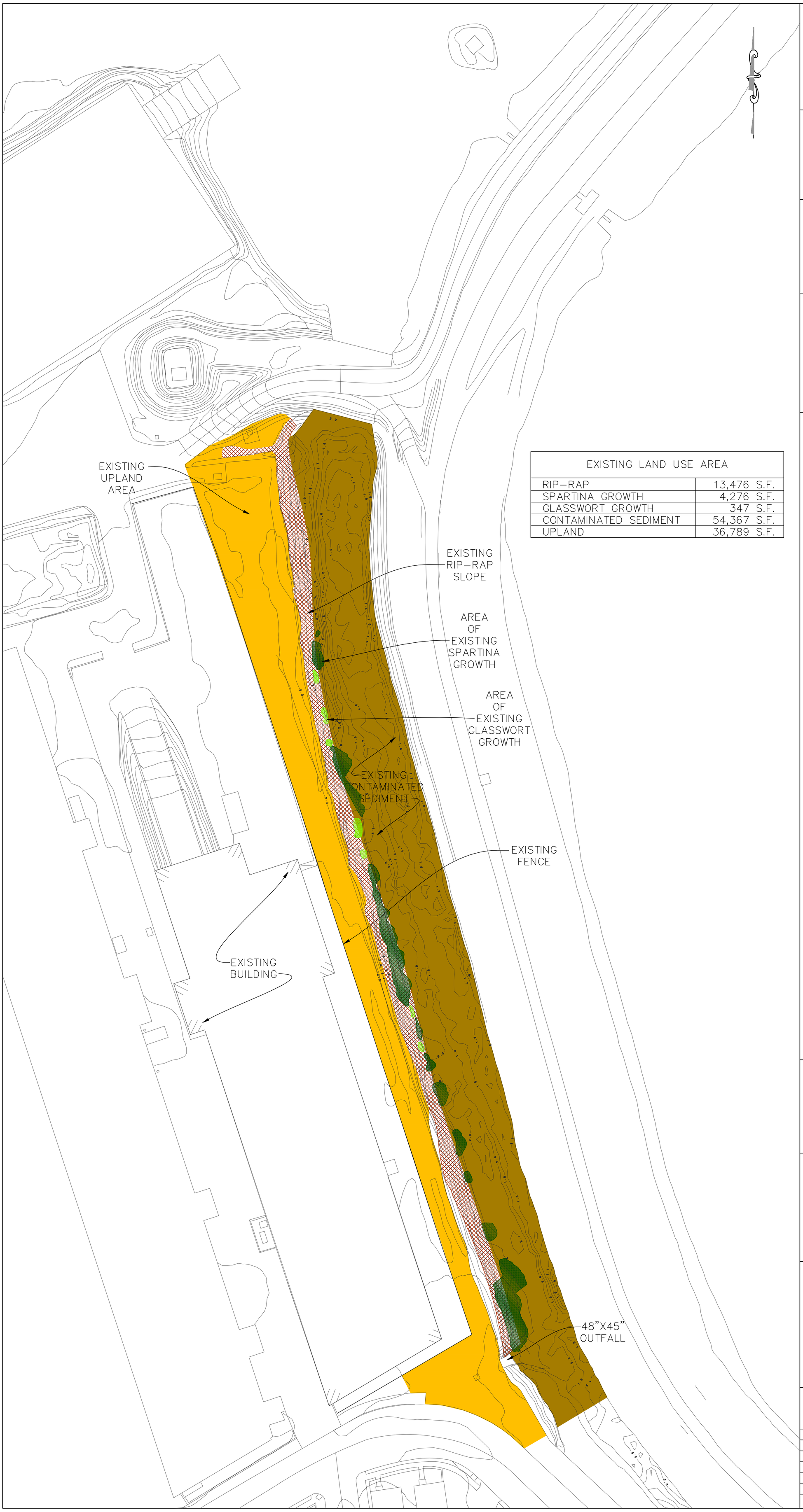
Scale: 1"=150'

0 75 150 300 600 FEET

Date	6/5/10
Proj. Mgr.	JAB
Design	GCD
Check	CM
Drawn	GCD
Job. No.	6690.002
Last Rev.	6/5/10

Drawing No.

FIGURE 14



EXISTING LAND USE AREA	
RIP-RAP	13,476 S.F.
SPARTINA GROWTH	4,276 S.F.
GLASSWORT GROWTH	347 S.F.
CONTAMINATED SEDIMENT	54,367 S.F.
UPLAND	36,789 S.F.

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PREPARED FOR:

COMMONWEALTH OF MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD MARINE COMMERCE TERMINAL HURRICANE BARRIER SWALE MITIGATION AREA EXISTING CONDITIONS

Scale: 1"=40'

0 20 40 80 120 FEET

Date	1/05/11
Proj. Mgr.	JAB
Design	GCD
Check	CHM
Drawn	GCD
Job. No.	6690
Last Rev.	9/21/11

Drawing No.

FIGURE 15

PROPOSED LAND USE AREA	
PEDESTRIAN WALKWAY	9,358 S.F.
WETLAND TRANSITION PLANTINGS	11,278 S.F.
HIGH MARSH SPECIES PLANTINGS	14,962 S.F.
LOW MARSH SPECIES PLANTINGS	32,362 S.F.
REMEDIATED CHANNEL	29,245 S.F.
UNMODIFIED UPLAND	12,050 S.F.

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PREPARED FOR:

COMMONWEALTH OF MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD MARINE COMMERCE TERMINAL HURRICANE BARRIER SWALE MITIGATION AREA PROPOSED CONDITIONS

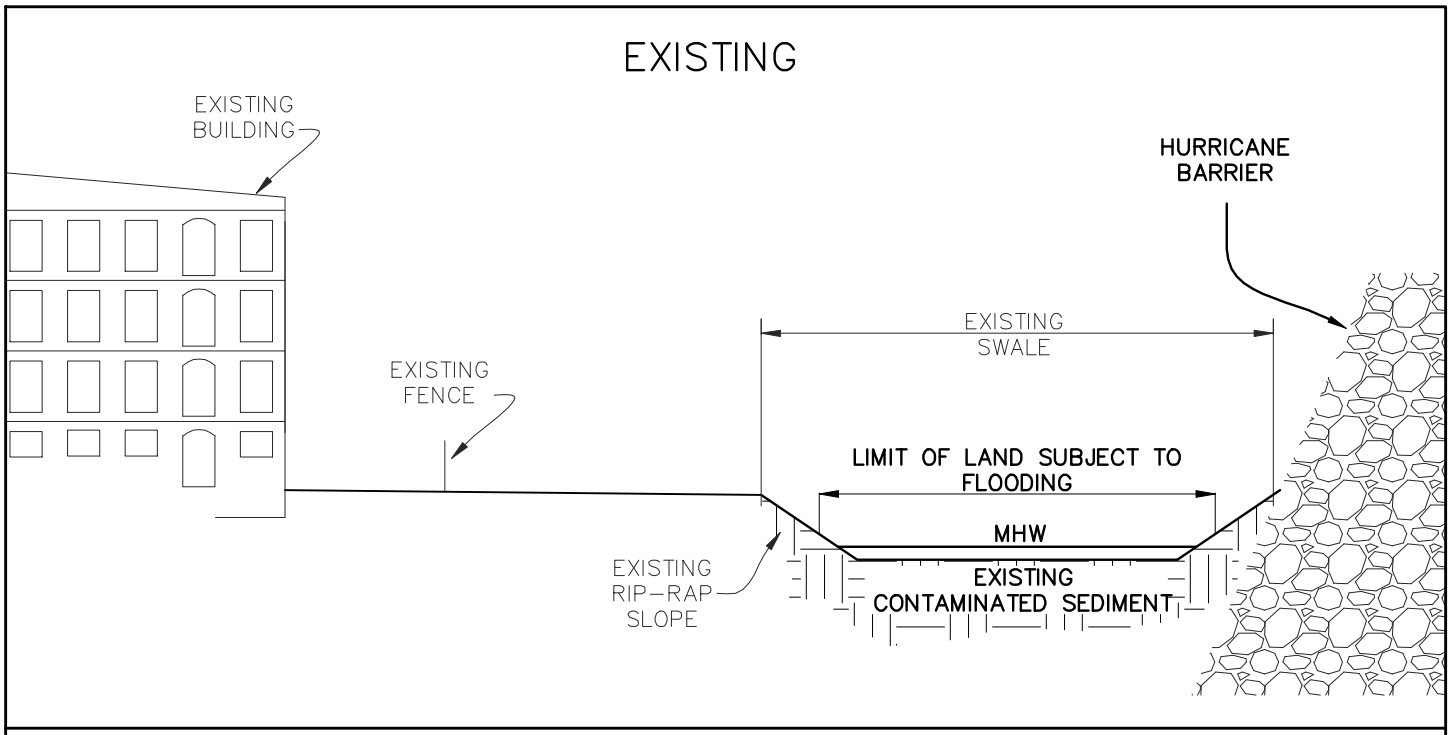
Scale: 1"=40'

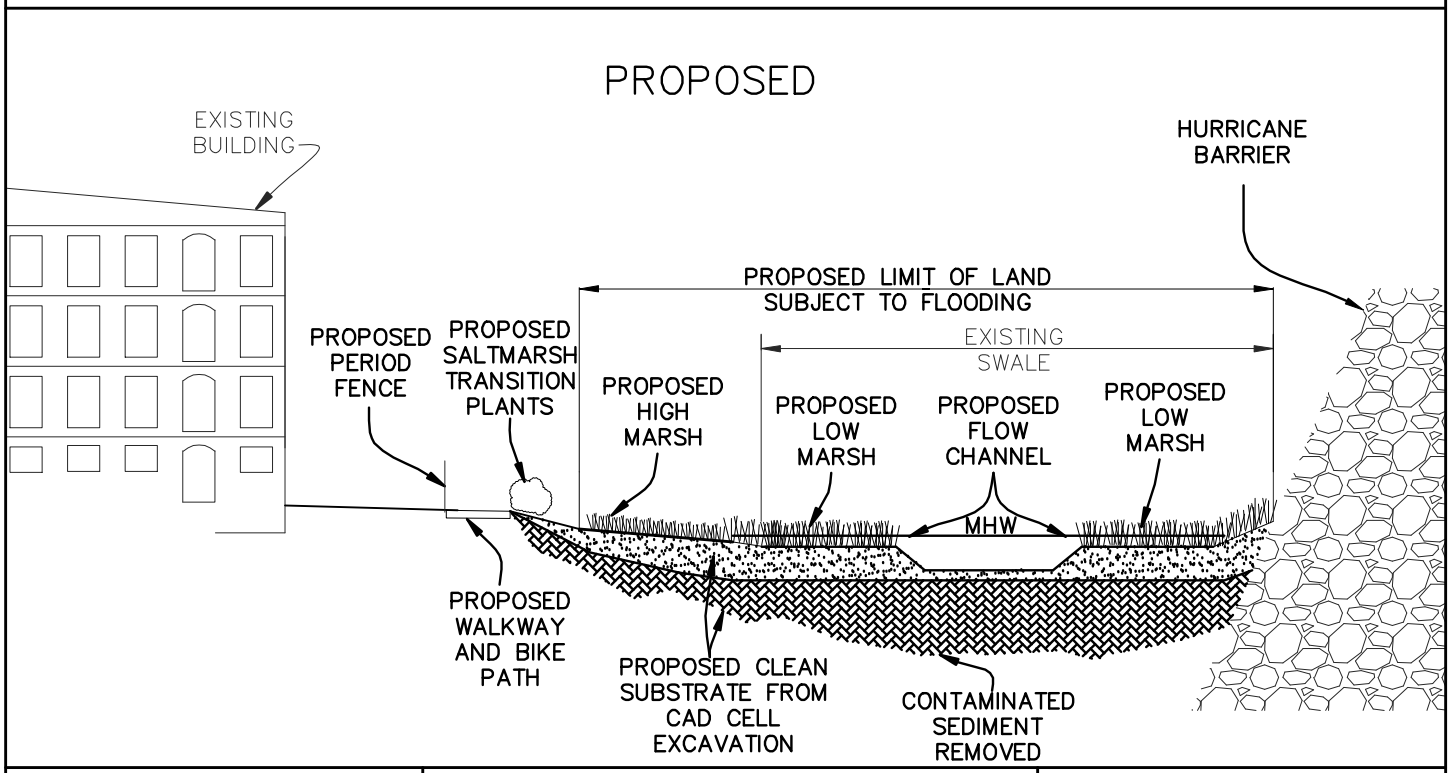
0 20 40 80 120 FEET

Date	1/05/11
Proj. Mgr.	JAB
Design	GCD
Check	CHM
Drawn	GCD
Job. No.	6690
Last Rev.	9/21/11

Drawing No.

FIGURE 16





Scale: 1"=30'

0 15 30 60

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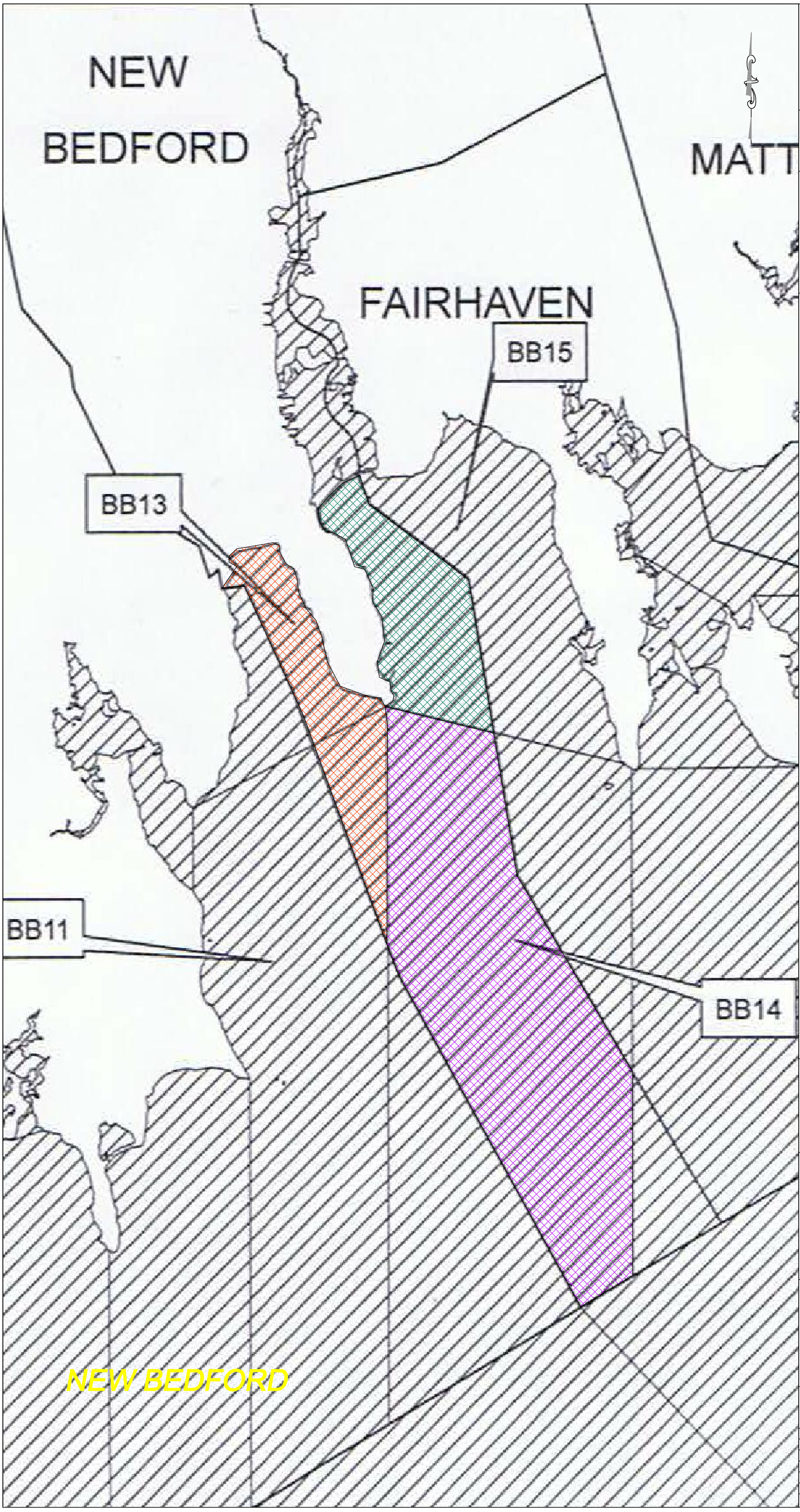
STORMWATER DRAINAGE SWALE MITIGATION AREA CROSS-SECTION

NEW BEDFORD MARINE COMMERCE TERMINAL

COMMONWEALTH OF MASSACHUSETTS

FIGURE 17



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SUITE 502
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(617) 728-0070

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1.	2/11/10	PRELIMINARY LAYOUT
2.	4/09/10	PRELIMINARY ASSESSMENT
3.	4/15/10	FIELD LOCATION
4.	7/07/10	ADD. FED. RESOURCE
5.	8/24/10	FINAL BULKHEAD ALIGNMENT

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CITY OF NEW BEDFORD JURISDICTIONAL WATERS MASS DMF SUB-CATCHMENT SHELLFISH AREA BB13

CITY OF NEW BEDFORD JURISDICTIONAL WATERS MASS DMF SUB-CATCHMENT SHELLFISH AREA BB14

CITY OF NEW BEDFORD JURISDICTIONAL WATERS MASS DMF SUB-CATCHMENT SHELLFISH AREA BB15

PREPARED FOR:

COMMONWEALTH OF MASSACHUSETTS

DRAWING TITLE:

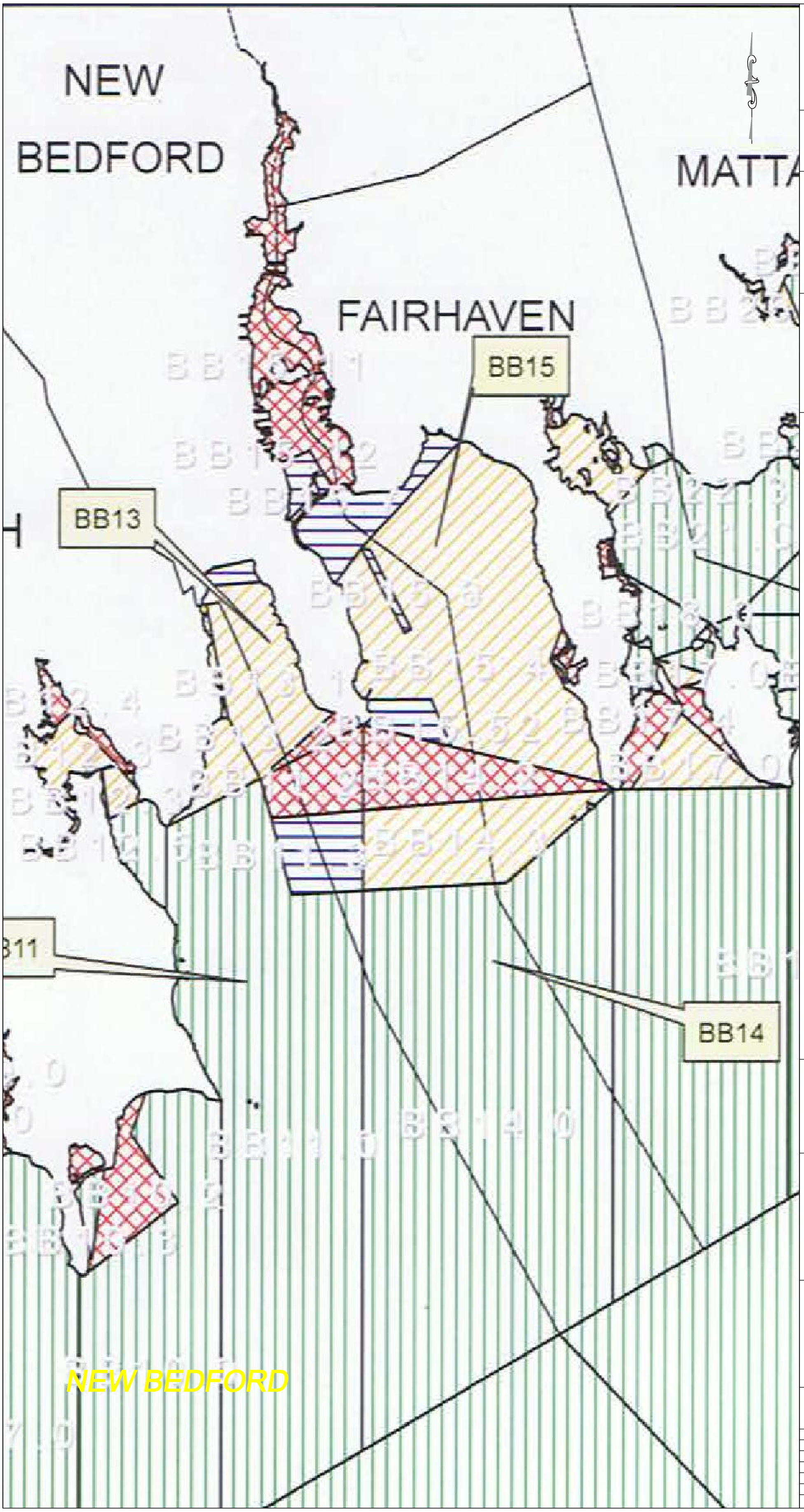
NEW BEDFORD MARINE COMMERCE TERMINAL
CITY OF NEW BEDFORD
APPLICABLE SHELLFISH AREAS

Scale: 1"=700'

0 350 700 1400 2100 FEET

Date 3/24/10	Drawing No.
Proj. Mgr.	
Design	
Check CM	
Drawn GCD	
Job. No. 6615	
Last Rev. 7/7/10	

FIGURE 18



Apex Companies, LLC.

184 HIGH STREET
SUITE 502
BOSTON MA 02110
(617) 728-0070

REVISIONS

NO.	DATE	DESCRIPTION
1.	2/11/10	PRELIMINARY LAYOUT
2.	4/09/10	PRELIMINARY ASSESSMENT
3.	4/15/10	FIELD LOCATION
4.	7/07/10	ADD. FED. RESOURCE
5.	8/24/10	FINAL BULKHEAD ALIGNMENT

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CONDITIONALLY APPROVED FOR SHELLFISHING (MAY BE SEEDED)

APPROVED FOR SHELLFISHING WITH NO RESTRICTION (MAY BE SEEDED)

SHELLFISHING PROHIBITED (NO SEEDING PLANNED)

SHELLFISHING RESTRICTED (NO SEEDING PLANNED)

NOTE:

1). ONLY JURISDICTIONAL AREAS OF THE CITY OF NEW BEDFORD WOULD BE SEEDED (PORTIONS OF BB15, BB13 OR BB14 WITHIN CITY OF NEW BEDFORD JURISDICTIONAL WATERS)

PREPARED FOR:

COMMONWEALTH OF MASSACHUSETTS

DRAWING TITLE:

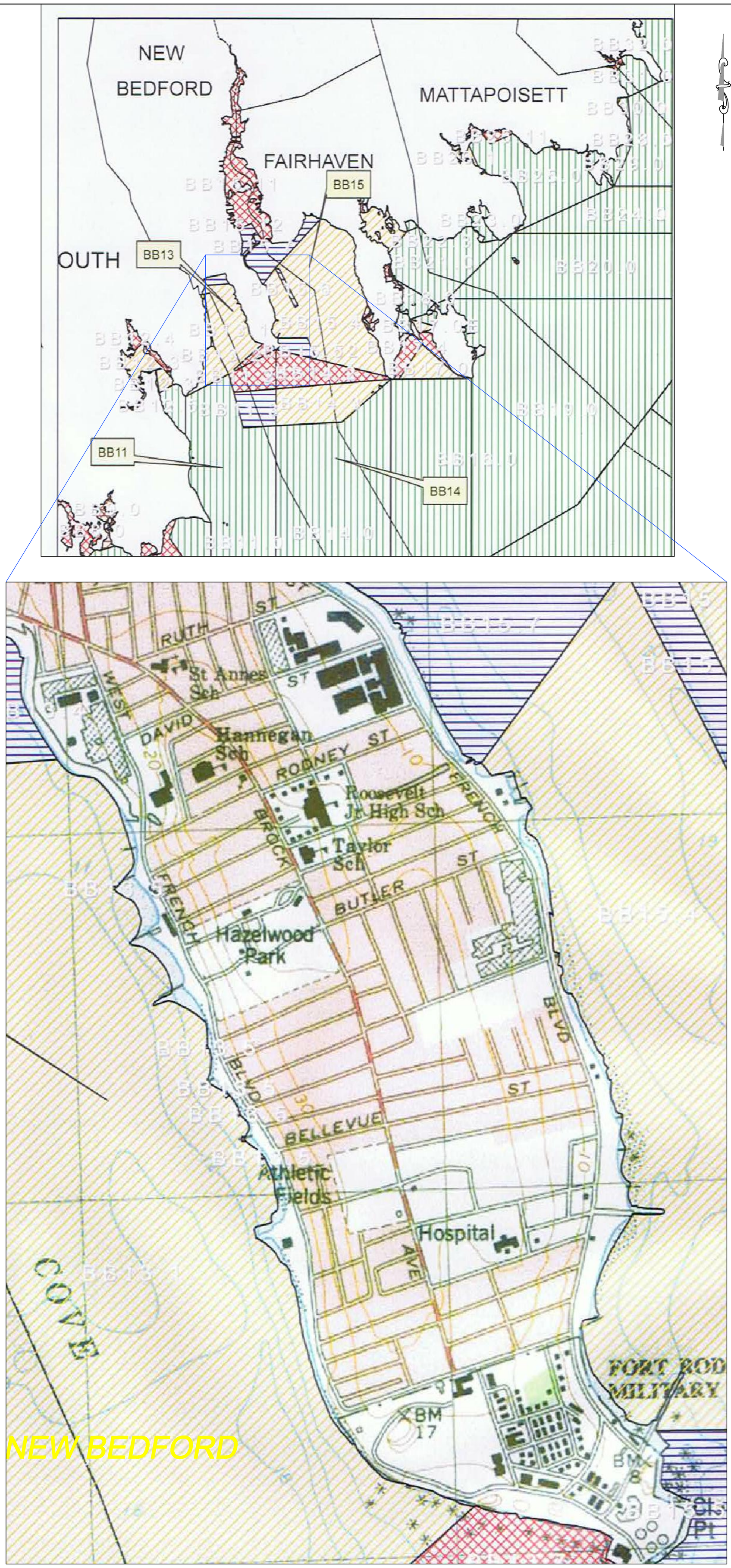
NEW BEDFORD MARINE COMMERCE TERMINAL
CITY OF NEW BEDFORD
POTENTIAL SEEDING AREAS

Scale: 1"=750'

0 325 750 1500 2250 FEET

Date	3/24/10	Drawing No.
Proj. Mgr.		
Design		
Check	CM	
Drawn	GCD	
Job. No.	6615	
Last Rev.	7/7/10	

FIGURE 19



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CONDITIONALLY APPROVED FOR SHELLFISHING (MAY BE SEEDED)

APPROVED FOR SHELLFISHING WITH NO RESTRICTION (MAY BE SEEDED)

SHELLFISHING PROHIBITED (NO SEEDING PLANNED)

SHELLFISHING RESTRICTED (NO SEEDING PLANNED)

NOTE:

1). ONLY JURISDICTIONAL AREAS OF THE CITY OF NEW BEDFORD WOULD BE SEEDED (PORTIONS OF BB15, BB13 OR BB14 WITHIN CITY OF NEW BEDFORD JURISDICTIONAL WATERS).

PREPARED FOR:

COMMONWEALTH OF MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD MARINE COMMERCE TERMINAL
CITY OF NEW BEDFORD
POTENTIAL SEEDING AREAS (ZOOM-IN)

Scale: 1"=125'

0 125 250 375 FEET

Date	3/24/10	Drawing No.
Proj. Mgr.		
Design		
Check	CM	
Drawn	GCD	
Job. No.	6615	
Last Rev.	7/7/10	