PUBLIC NOTICE

US Army Corps
of Engineers ®
New England District

696 Virginia Road
Concord, MA 01742-2751

Date: January 15, 2008
Comment Period Ends: February 15, 2008
File Number: NAE-2007-3262
In Reply Refer To: David M. Keddell
Or by e-mail: david.m.keddell@usace.army.mil

The District Engineer has received a permit application from the applicant below to **conduct work in waters of the United States** as described below. The Corps is soliciting comments on both the project itself and the range of issues to be addressed in the environmental documentation.

APPLICANT

Northeast Mosquito Control & Wetlands Management District
261 Northern Blvd.
Newburyport, Ma 01950 Attn: Emily Sullivan

ACTIVITY

The Northeast Mosquito Control & Wetlands Management District has requested a Corps of Engineers permit under Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act of 1972 to implement Open Marsh Water Management (OMWM) in various towns in Northeastern Massachusetts. This work is to abate mosquito populations, reduce the need for insecticides, enhance the tidal food web, and enhance and restore previously adversely impacted salt marshes. The OMWM involves six types of alterations: pond, reservoir, radial, selective ditch, gutter ditch and sill ditch. Three-foot deep ponds will be utilized where depressions exist. Reservoirs will be three feet deep and will be utilized in areas where no existing depressions exist. Radials will be used to connect three or more ponds and reservoirs and will be eighteen inches deep. Circuit radials will also be eighteen inches deep and will be used to connect a pond or reservoir to another pond or reservoir. Selective ditches will be used to enhance tidal flow to an isolated breeding depression or tidally restricted salt marsh. They will be utilized to divert fresh water from an OMWM closed system. Gutter ditches will be utilized to maintain diversity by diverting surface freshwater or sheet runoff away from an OMWM closed system. Sill ditches will be used to enhance tidal flow to a closed system.

The applicant has applied to implement OMWM within 31 communities in Northeastern Massachusetts if necessary for mosquito control. The applicant will submit data pertaining to proposed sites annually to the Corps of Engineers as part of the OMWM Committee review. The proposed work is described in the attached document entitled "Standard Open Marsh Water Management, OMWM". The potential sites are shown on the attached quadrangle sheet sections, on 23 sheets. A prior Corps of Engineers permit was issued in 1997 for OMWM in Essex County, Massachusetts. The permit number was 199703019.

A detailed description and plans of the activity are attached.

WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in various salt marshes in Essex County Massachusetts. The proposed locations will be located on the USGS Newburyport East, Newburyport West, Haverhill, Lawrence, Ipswich, Rockport, Gloucester, Salem, Lynn, Boston North, or Reading quadrangle sheets and centered around UTM coordinates 4740996 N and 347855 E Zone 19

AUTHORITY

Permits are required pursuant to:
__X_ Section 10 of the Rivers and Harbors Act of 1899
_ X_ Section 404 of the Clean Water Act
_____Section 103 of the Marine Protection, Research and Sanctuaries Act).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries

Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH).

This project will potentially impact some of the 23,000 acres of Essential Fish Habitat (EFH) for Atlantic salmon (Salmo salar), Atlantic cod (Gadus morhua), haddock (Melanogrammus aeglefinus), pollock (Pollachius virens), whiting (Merluccius bilinearis), offshore hake (Merluccius albidus), red hake (Urophycis chuss), white hake (Urophycis tenuis), redfish (Sebastes fasciatus), witch flounder (Glyptocephalus cynoglossus), winter flounder (Pleuronectes americanus), yellowtail flounder (Pleuronectes ferruginea), windowpane flounder (Scopthalmus aquosus), American plaice (Hippoglossoides platessoides), ocean pout (Macrozoarces americanus), Atlantic halibut (Hippoglossus hippoglossus), Atlantic sea scallop (Placopecten magellanicus), Atlantic sea herring (Clupea harengus), monkfish (Lophius americanus), bluefish (Pomatomus saltatrix), long finned squid (Loligo pealei), short finned squid (Illex illecebrosus), Atlantic butterfish (Peprilus triacanthus), Atlantic mackerel (Scomber scombrus), summer flounder (Paralicthys dentatus), scup (Stenotomus chrysops), black sea bass (Centropristus striata), surf clam (Spisula solidissima), ocean quahog (Artica islandica), spiny dogfish (Squalus acanthias), tilefish (Lopholatilus chamaeleonticeps). This habitat consists of tidally-influenced, upper estuarine silt/mud river bottom, intertidal silt/mud, and estuarine marsh habitat. Loss of this habitat may adversely affect Atlantic salmon (Salmo salar), Atlantic cod (Gadus morhua), haddock (Melanogrammus aeglefinus), pollock (Pollachius virens), whiting (Merluccius bilinearis), offshore hake (Merluccius albidus), red hake (Urophycis chuss), white hake (Urophycis tenuis), redfish (Sebastes fasciatus), witch flounder (Glyptocephalus cynoglossus), winter flounder (Pleuronectes americanus), yellowtail flounder (Pleuronectes ferruginea), windowpane flounder (Scopthalmus aquosus), American plaice (Hippoglossoides platessoides), ocean pout (Macrozoarces americanus), Atlantic halibut (Hippoglossus hippoglossus), Atlantic sea scallop (Placopecten magellanicus), Atlantic sea herring (Clupea harengus), monkfish (Lophius americanus), bluefish (Pomatomus saltatrix), long finned squid (Loligo pealei), short finned squid (Illex illecebrosus), Atlantic butterfish (Peprilus triacanthus), Atlantic mackerel (Scomber scombrus), summer flounder (Paralicthys dentatus), scup (Stenotomus chrysops), black sea bass (Centropristus striata), surf clam (Spisula solidissima), ocean quahog (Artica islandica), spiny dogfish (Squalus acanthias), tilefish (Lopholatilus chamaeleonticeps). However, the District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

SECTION 106 COORDINATION

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

The States of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved **Coastal Zone Management Programs**. Where applicable the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:

(X) Permit, License or Assent from State.
( ) Permit from Local Wetland Agency or Conservation Commission.
(X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact David Keddell at (978) 318-8692, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

For more information on the New England District Corps of Engineers programs, visit our website at http://www.nae.usace.army.mil.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

Karen K Adams
Chief, Permits and Enforcement Branch
Regulatory Division

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here ( ) and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____

Commonwealth of Massachusetts

State Reclamation Board

NORTHEAST MASSACHUSETTS MOSQUITO CONTROL AND WETLANDS MANAGEMENT DISTRICT

261 Northern Boulevard, Plum Island
Newburyport, MA 01950

Telephone:
(978) 463-6630

Fax:
(978) 463-6631

Walter G. Montgomery
Director

Jack A. Card, Jr.
Operations Manager

Emily DW Sullivan
Wetlands Project Coordinator

NORTHEAST MASSACHUSETTS MOSQUITO CONTROL AND WETLANDS MANAGEMENT DISTRICT

OPEN MARSH WATER MANAGEMENT PROGRAM

NOVEMBER 2007

OMWM PROGRAM GOALS AND OBJECTIVES

The primary objective of OMWM is to abate salt marsh mosquito populations. The Northeast Massachusetts Mosquito Control and Wetlands Management District, herein referred to as the District, has been applying the principals of OMWM on local salt marshes as an integral part of their Integrated Pest Management (IPM) program and in accordance with written Standards since 1982. Benefits of OMWM include but are not limited to the following: mosquito larval control, reduction in application of pesticides to the salt marsh, enhancement of the tidal food web, and in many cases reduction of non-native populations of *Phragmites*.

SITE PLAN

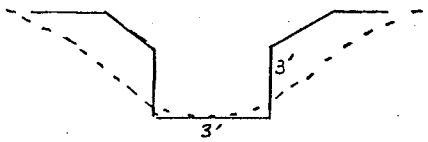
The District gathers and records data (MA GIS compatible whenever possible) relevant to site specific OMWM projects such as but not limited to the following: (see appendix for additional data available and detailed descriptions).

Site Maps
Site Design
Proposed Alterations
Equipment List
Staging Area
Access and Egress Routes
Site Preparation Requirements
Erosion and Sedimentation Controls
Temporary Designated Stockpile Locations
Spoil Disposal Areas

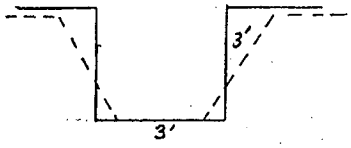
ALTERATION DIMENSIONS AND PROFILE

Pond — L x 3'W x 3'D = L x 9' = cu ft.

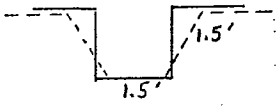
*(L=diameter)



Resevoir — L x 3'W x 3'D = L x 9"= cu ft.



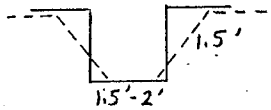
Circut Radial/Radial — L x W 1.5' x D 1.5'= L x 2.25'= cu ft.



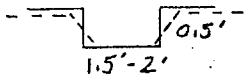
Selective Ditch — Ditcher L x W 1.5' x D 1.5'= L x 2.25'

= cu ft.

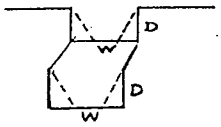
Excavator L x W 2' x Depth = cu ft.



Gutter Ditch — L x W 2' x D 0.5' = cu ft.



Sill Ditch — L x W x D + L x W x D = cu ft.



Overflow Pond — L x W 3' x D 3' = L x 9' = cu ft.

(L=diameter)

* When measuring pond an average diameter can be used for the length (L) depending on the pond configuration.

--- Indicates alternative design.

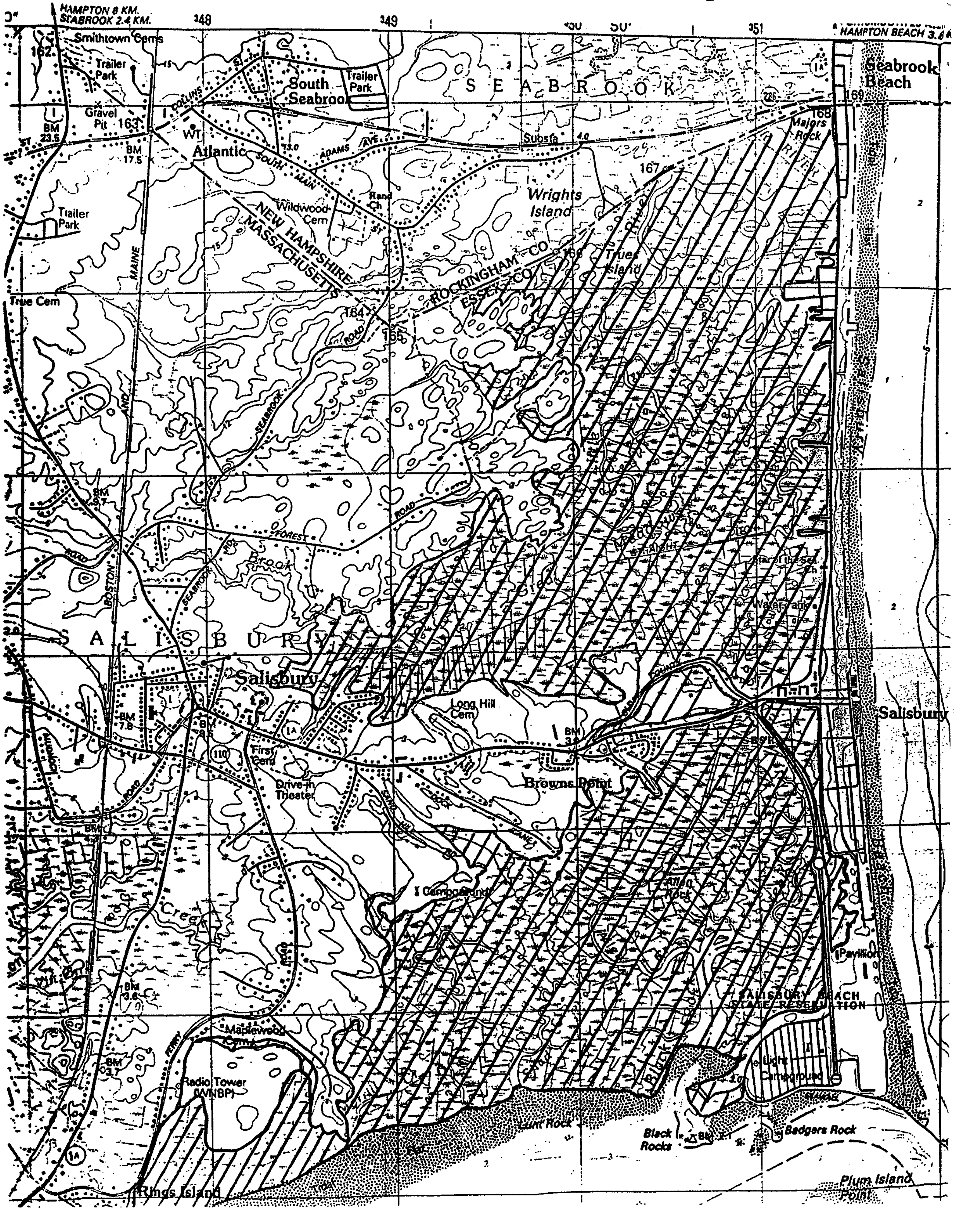
- Zone 1 -

10 KM. TO N. H. 108
EASTMAN CORNERS 3.7 KM.
PORTSMOUTH 25 KM.
SEABROOK 3.2 KM.
342
55'
344
345
346
Gravel Pit
Batt Hill
CONGRESS
CLINTON
Ski Lifts
Powwow Hill
Radio Tower
Amesbury Sch
Mundy Hill
MAIN
Salisbury Plains Cem
Amesbury Country Club
INTERCHANGE 56
Training Field Park
Meader Brook
Amesbury
Playground
Hospital
Middle Sch
Mt Prospect Cem
INTERCHANGE 55
BOSTON AND
BAKER
RABBIT RD
WILLOW
Union Cem
Bartlett Cem
Salisbury Cem
Salisbury Point
Drive-in Theater
INTERCHANGE 54
Bailey Pond
Whittier Mem Bridge
Deer Island
Eagle Island
Pumping Sta
Essex-Merrimac Bridge
CORPORATE
BOUNDARY
Back
Moseley Woods Park
MERRIMACK
Atkinson Common
Gravel Pit
St Marys Cem
Belleville Cem
Sawyer Hill Burying Ground
Belleville Sch

- ZONE 2


PORTSMOUTH 25 KM.
SEABROOK 3.2 KM.
HAMPTON 8 KM.
SEABROOK 2.4 KM.
52' 30"
344
345
346
348
349
Salisbury Plains
Smithtown Cems
Trailer Park
South Seabrook
Gravel Pit
Batt Hill
Atlantic
Wildwood Cem
NEW HAMPSHIRE
MASSACHUSETTS
Rand Ch
Trailer Park
True Cem
Salisbury Plains Cem
INTERCHANGE 56
Training Field Park
Meader Brook
Smallpox
BAKER ROAD
BOSTON AND MAINE
S A L I S B U R Y
Salisbury
Drive-In Theater
First Cem
Deer Island
Eagle Island
Essex-Merrimac Bridge
CORPORATE BOUNDARY
Back
STATE WILDLIFE MANAGEMENT AREA
Carr Island
Ram Island
Maplewood Cem
Radio Tower (WNBP)
Atkinson Common
Belleville Cem
Belleville Sch
Currier Sch
RIVER
Boat Ramp
Rings Island

- ZONE 3


HAMPTON 8 KM.
SEABROOK 2.4 KM.
348
349
351
HAMPTON BEACH
Smithtown Cems
Trailer Park
South Seabrook
SEABROOK
Seabrook Beach
Gravel Pit
Atlantic
Substa
Majors Rock
Wildwood Cem
Rand Ch
Wrights Island
NEW HAMPSHIRE
MASSACHUSETTS
ROCKINGHAM CO
ESSEX CO
True Island
True Cem
MAINE
BOSTON
SEABROOK
FOREST
ROAD
Brook
SALISBURY
Salisbury
Long Hill Cem
Star of the Sea Ch
Water Tank
First Cem
Drive-in Theater
Browns Point
Campground
Allen Rock
Creek
SALISBURY BEACH STATE RESERVATION
Pavillion
Maplewood Cem
Radio Tower (WNBP)
Light Campground
Lunt Rock
Black Rocks
Badgers Rock
Plum Island Point
Rings Island

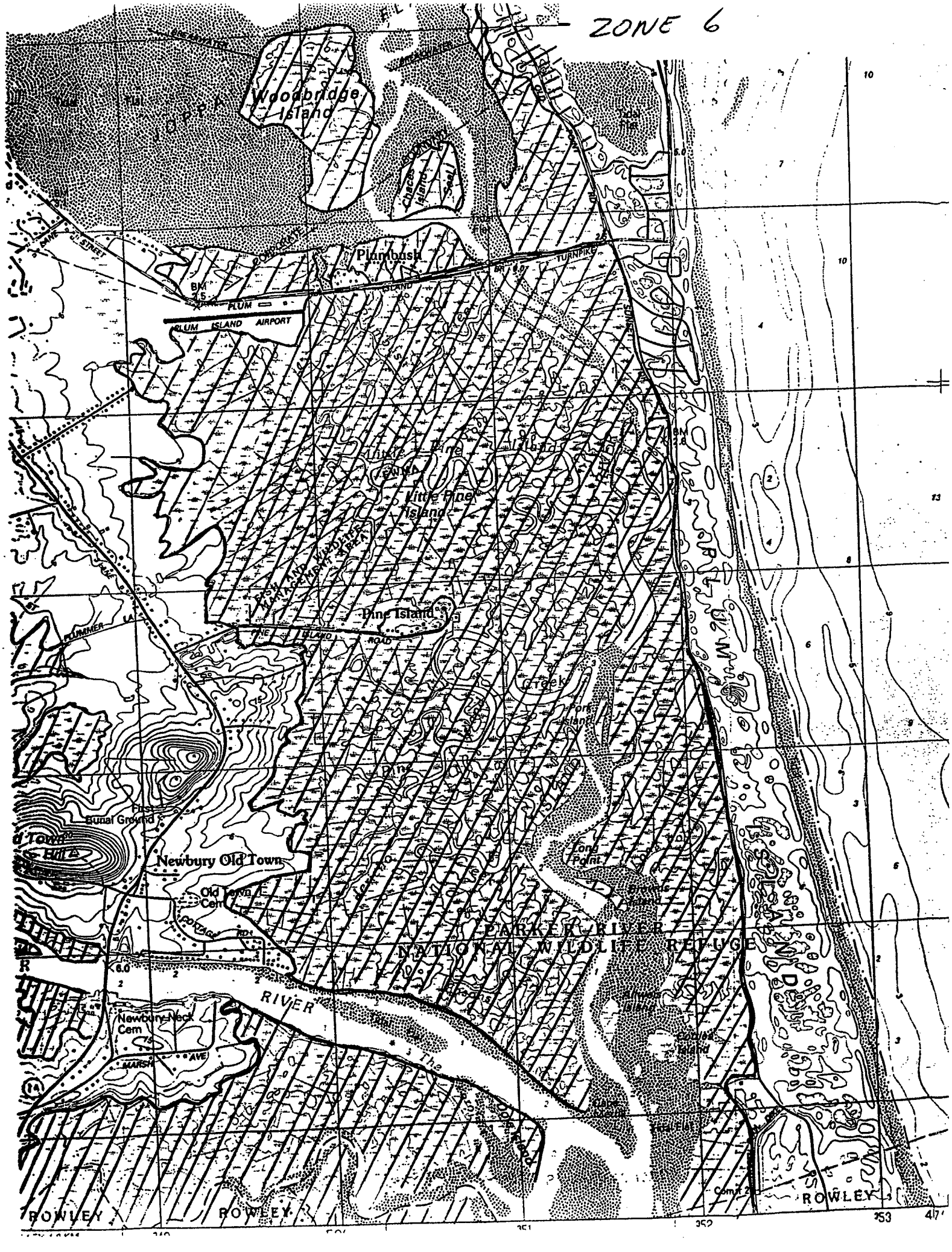

ZONE 4
MIDDLE STREET
HALE STREET
Upper Artichoke Reservoir
BROWNS
GARDEN
CORPORATE BOUNDARY
Turkey Hill
Cem
ROGERS STREET
Little
SCOTLAND ROAD
PARKER
HIGHFIELD
Indian Hill
DOWNFALL WMA
DOWNFALL WILDLIFE MANAGEMENT AREA
SOUTH ST
DOWNFALL RD
WAYSIDE
ORCHARD
ROAD
South Byfield
Governor Dummer Academy
Old Newbury Golf Club
4.8 KM. TO MASS. 133
BOSTON 50 KM.
342
343 55'
344
KENT CORNER 5.4 KM.
BOSTON 50 KM.
345

- ZONE 5

SCALE 1:25 000

1 CENTIMETER ON THE MAP REPRESENTS 250 METERS ON THE GROUND

CONTOUR INTERVAL 3 METERS


ZONE 6
Woodbridge Island
Plumbush
PLUM ISLAND AIRPORT
Little Pine Island
Pine Island
Newbury Old Town
Old Town Hill
Old Town Cem
First Burial Ground
Newbury Neck Cem
PARKER RIVER NATIONAL WILDLIFE REFUGE
PARKER RIVER
ROWLEY
ROWLEY
ROWLEY

- ZONE 7

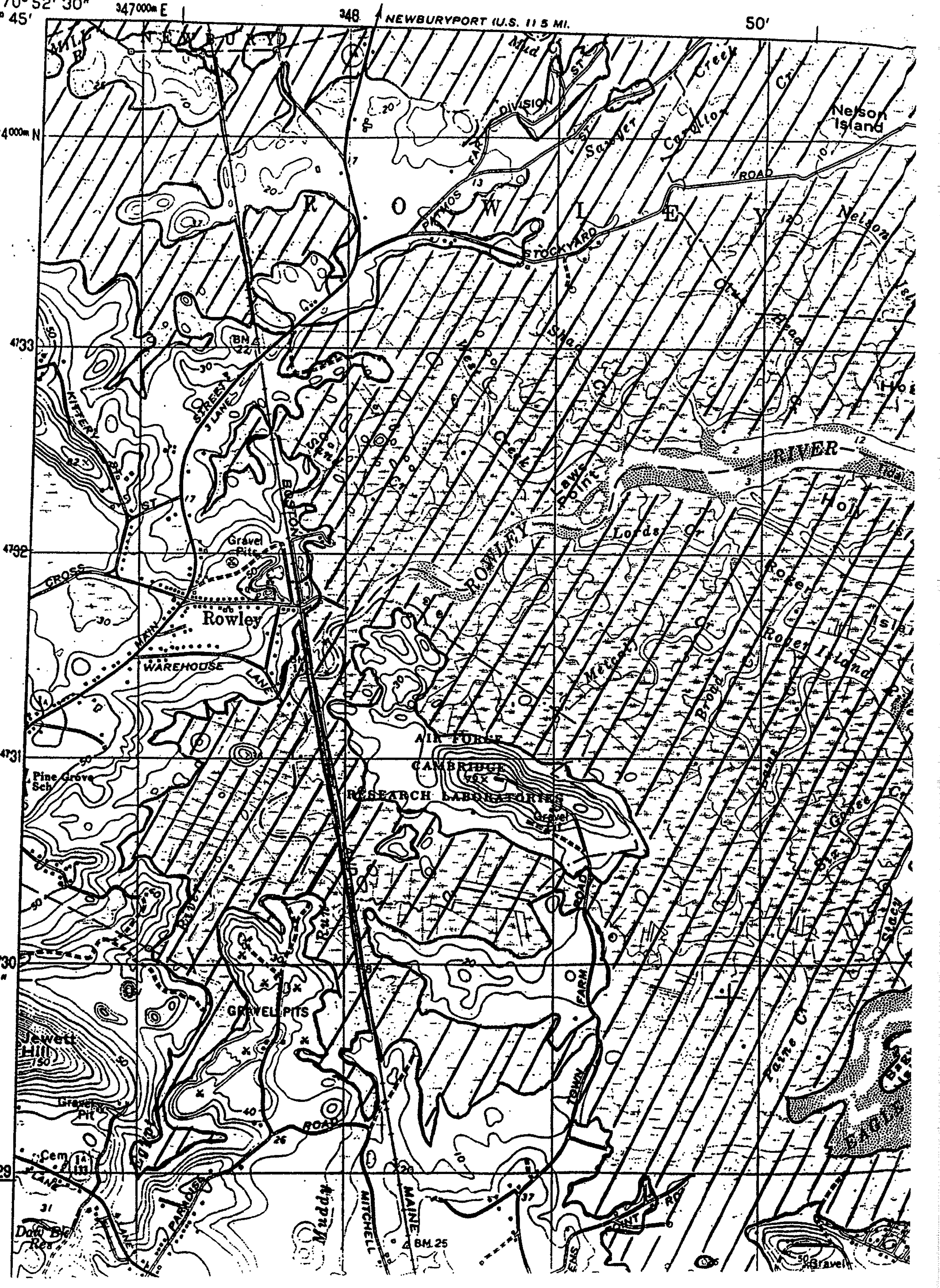
OF MASSACHUSETTS
OF PUBLIC WORKS

GEORGETOWN QUADRANGLE
MASSACHUSETTS—ESSEX CO.
7.5 MINUTE SERIES (TOPOGRAPHIC

- ZONE 8

6869 IV SW
(NEWBURYPORT WEST)

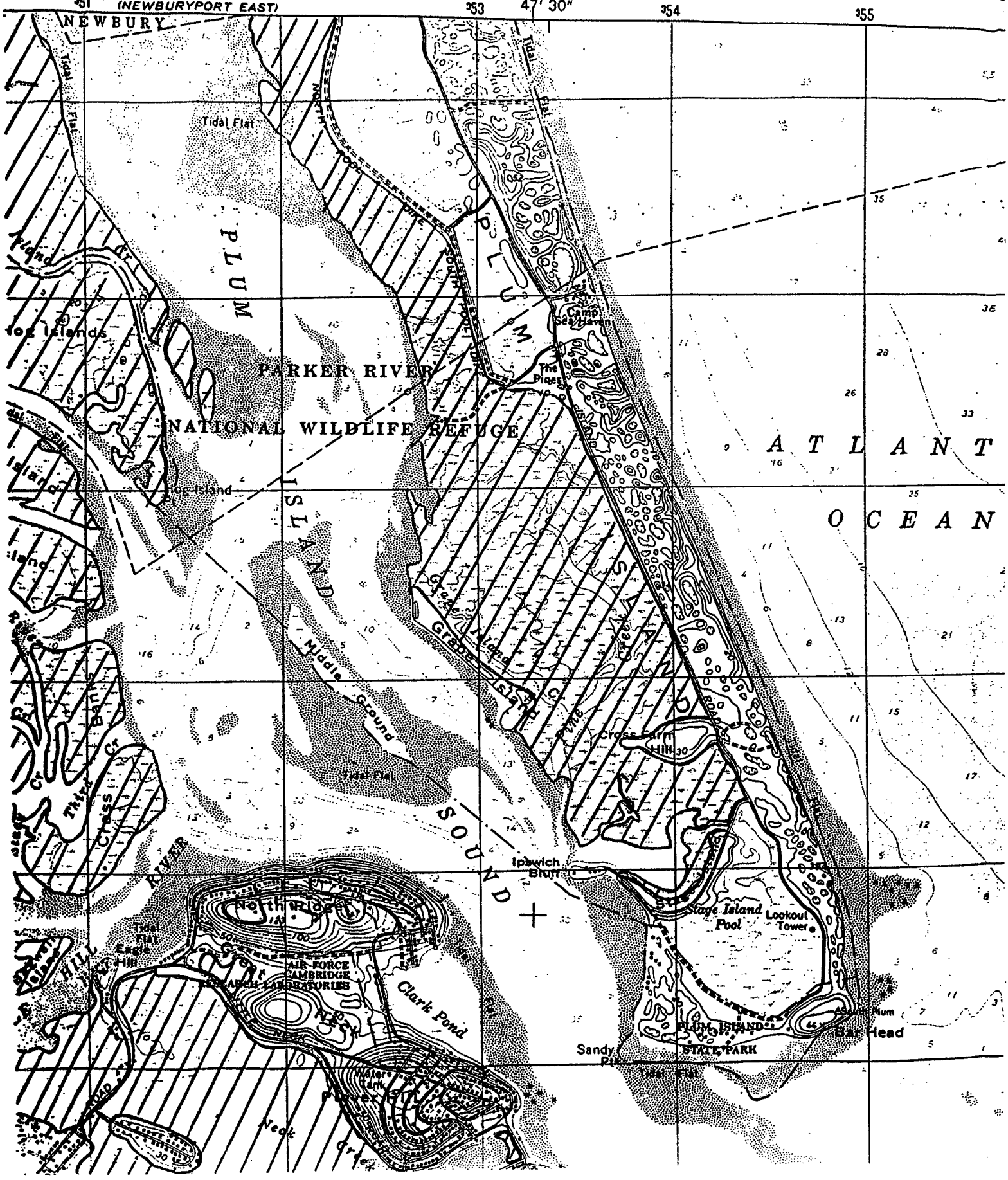
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

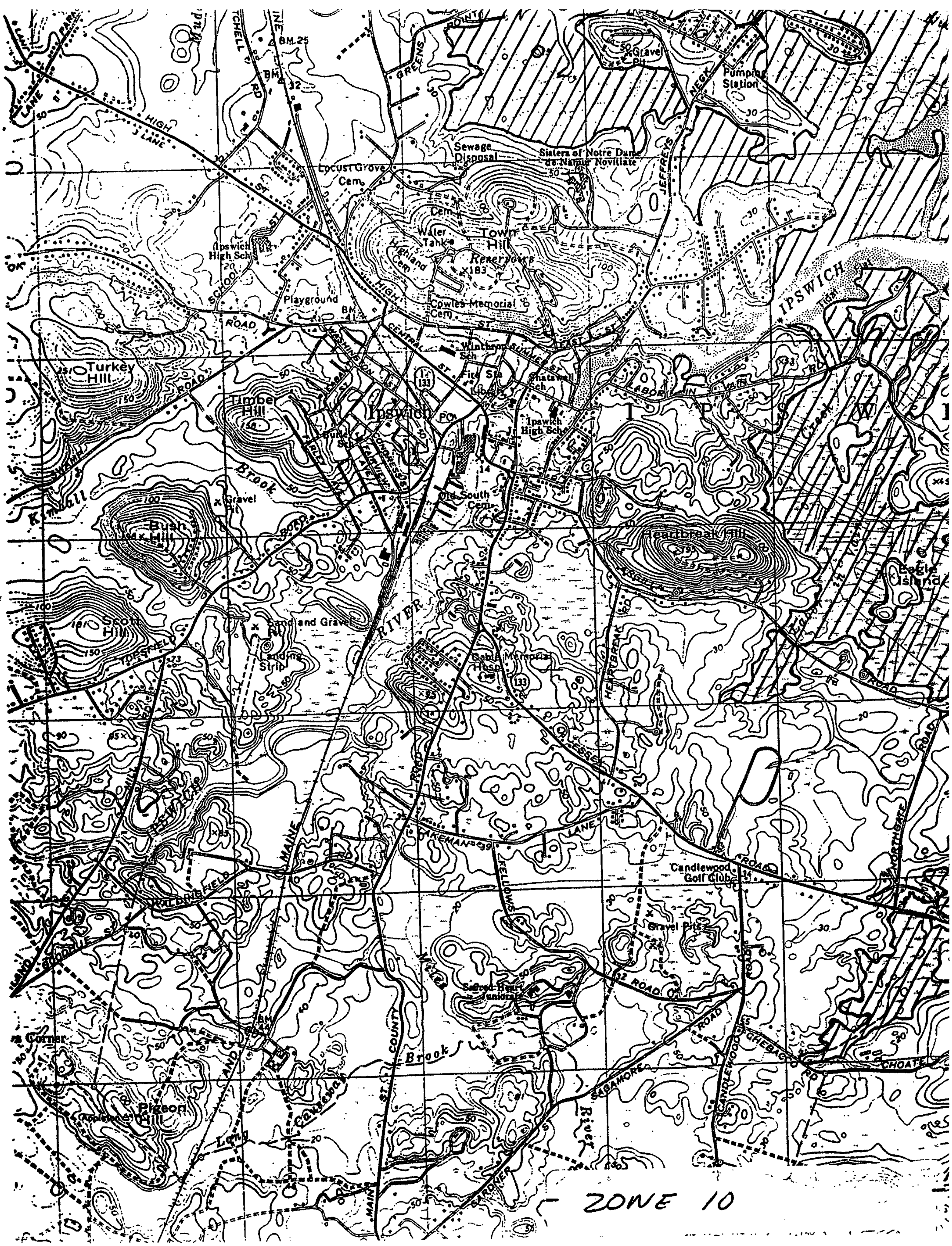


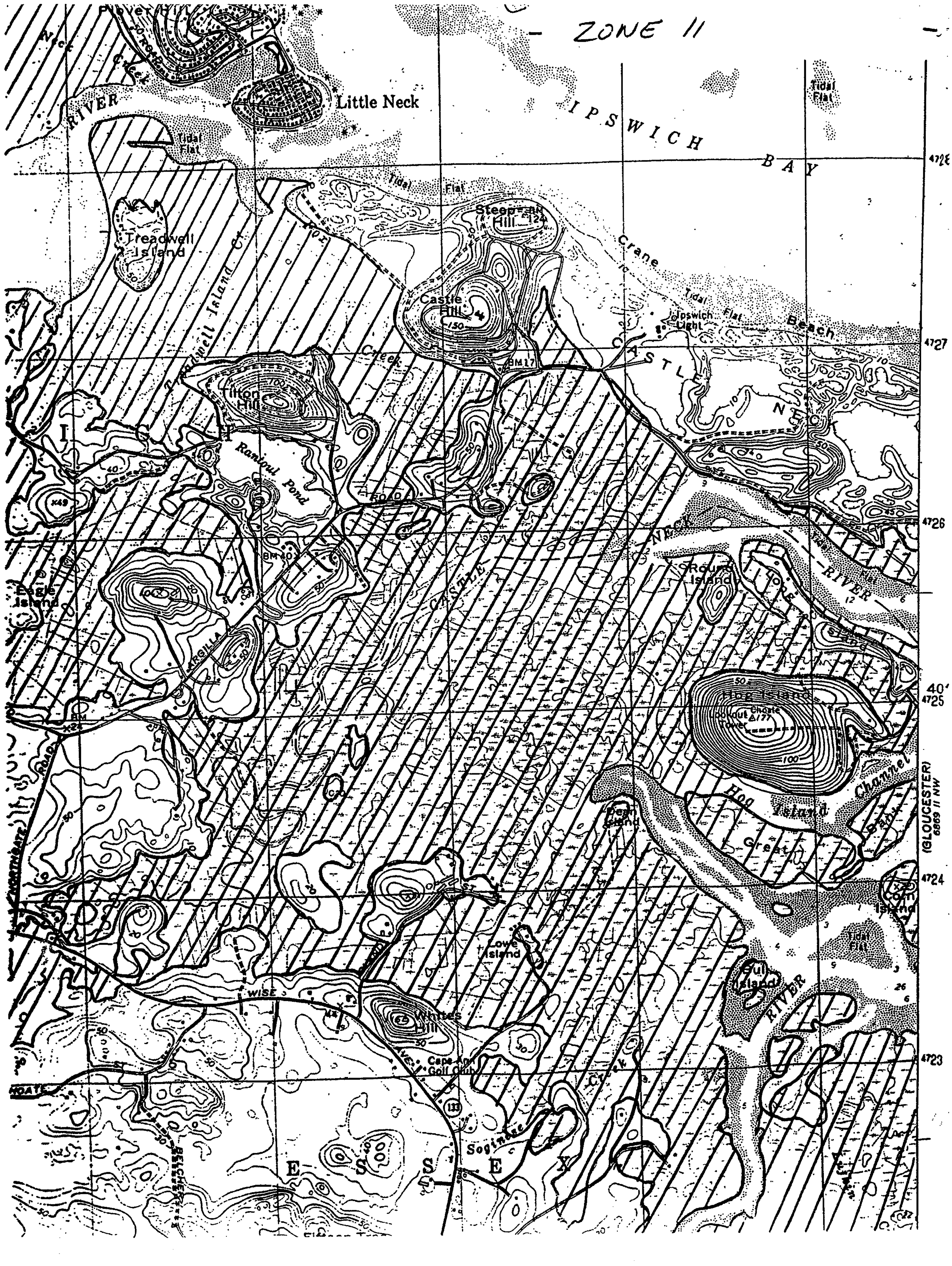
- ZONE 9

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

IPSWICH
MASSACHU
7.5 MINUTE S

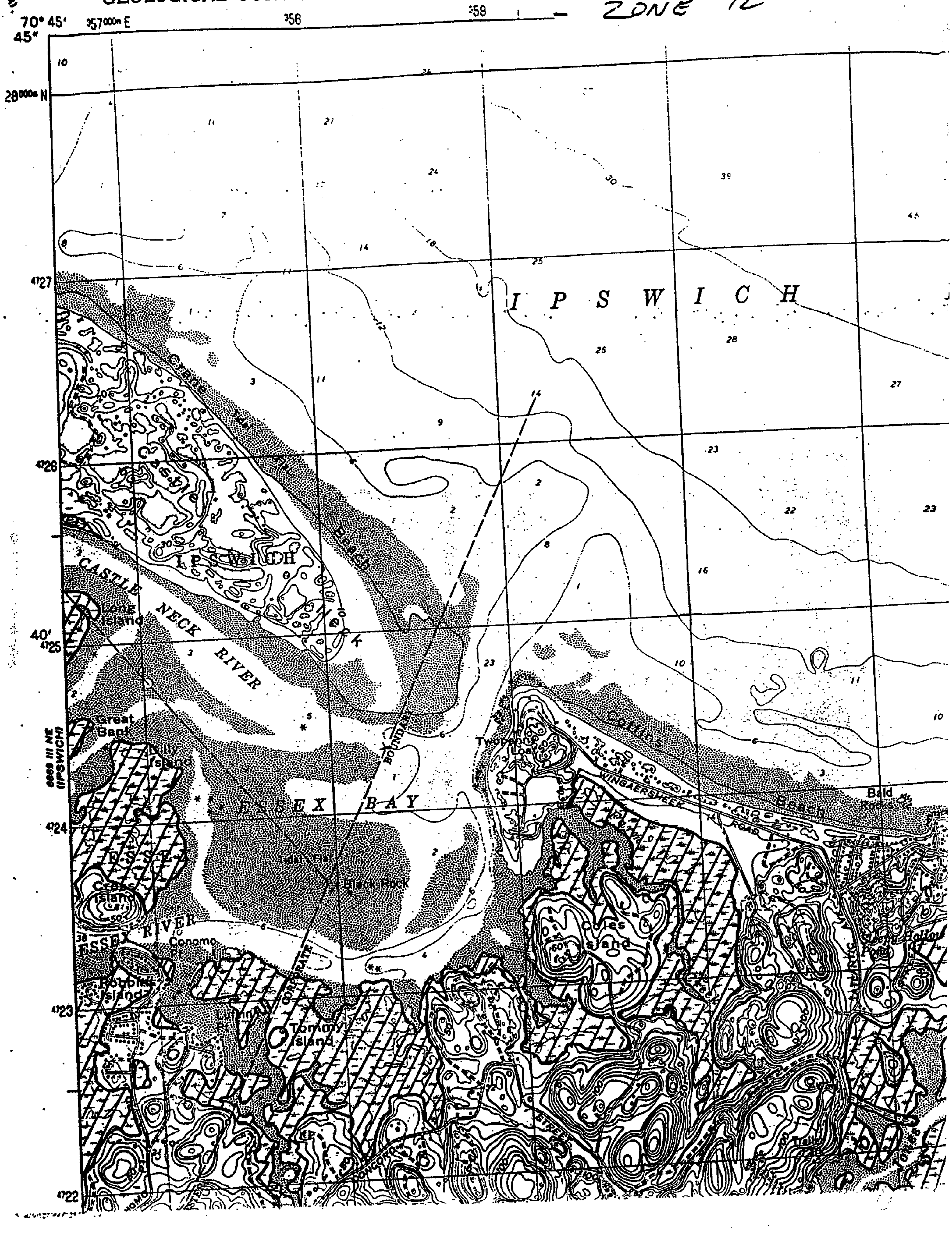


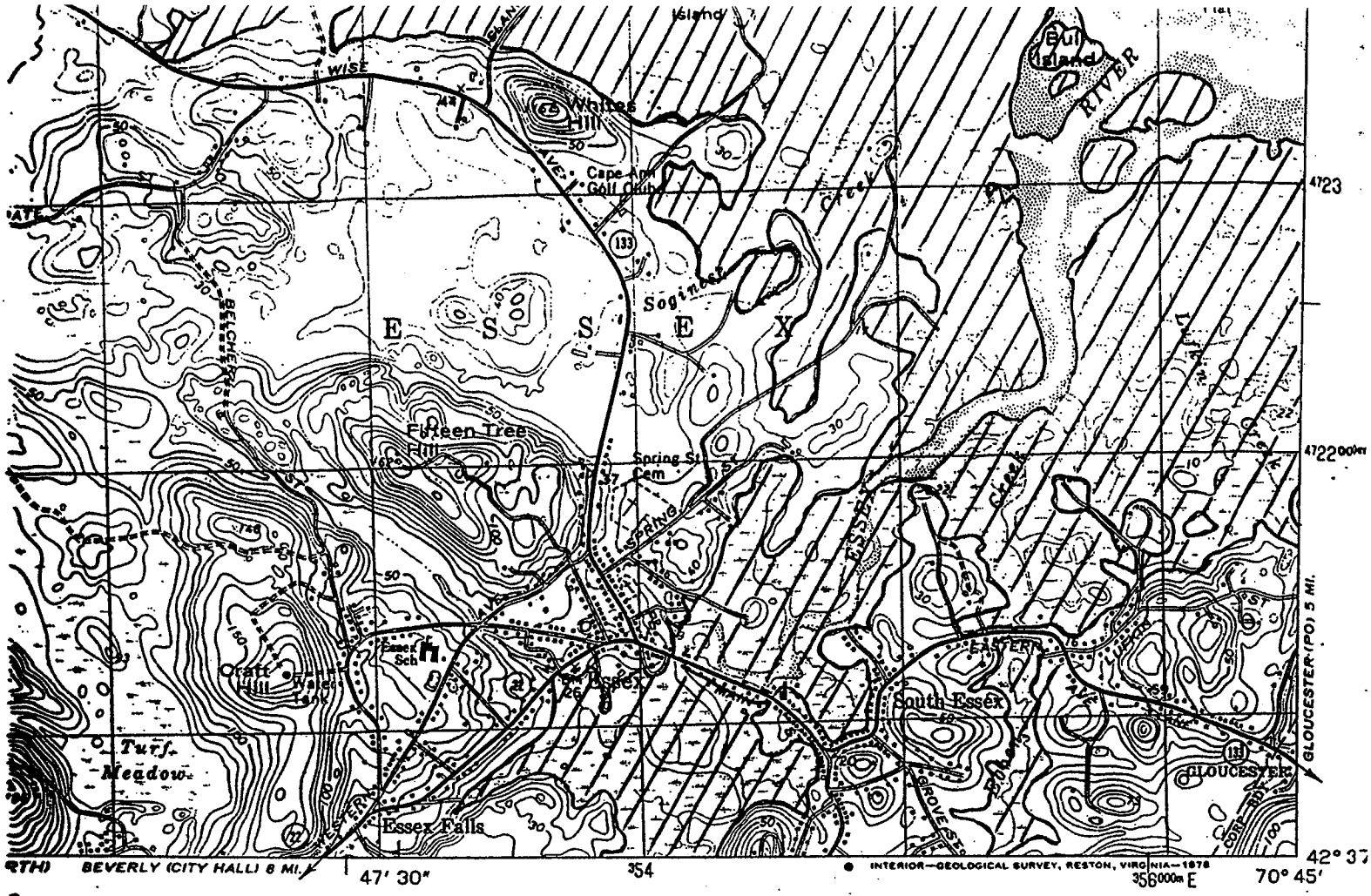

Sewage Disposal
Sisters of Notre Dame de Namur Novitiate
Gravel Pit
Pumping Station
Locust Grove Cem.
Water Tank
Town Hill
Highland Cem.
Reservoirs
Ipswich High Sch
Playground
Cowles Memorial Cem.
IPSWICH
Turkey Hill
Timber Hill
Ipswich
Winthrop Sch
Fire Sta
Library
Shatswell Sch
Ipswich Jr. High Sch
Old South Cem.
Brook
Bush Hill
Gravel Pit
Heartbreak Hill
Eagle Island
Scott Hill
Sand and Gravel Pit
Landing Strip
RIVER
Cable Memorial Hosp.
Candlewood Golf Club
Gravel Pits
Sacred Heart Juniorate
Brook
Pigeon Hill
River
ZONE 10


ZONE II
Little Neck
IPSWICH BAY
RIVER
Tidal Flat
Treadwell Island
Steep Hill
Castle Hill
Crane Beach
Ipswich Light
CASTLE NECK
Tilton Hill
Rantoul Pond
Eagle Island
Round Island
Hog Island
Choate Lookout Tower
Hog Island Channel
Great
Dean Island
Lowe Island
Cog Island
Bull Island
Whites Hill
Cape Ann Golf Club
WISE
ESSEX
(GLOUCESTER)
6869 II NW
4728
4727
4726
40'
4725
4724
4723

GEOLOGICAL SURVEY

ZONE 12





0

1 MILE

4000 5000 6000 7000 FEET

1 KILOMETRE

10 FEET
DATUM OF 1929
DATUM IS MEAN LOW WATER
E LINE OF MEAN HIGH WATER
IMATELY 8.6 FEET

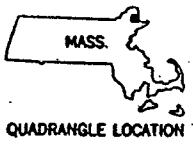
P ACCURACY STANDARDS
RESTON, VIRGINIA 22092
MBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Heavy-duty ——— Light-duty ———

Medium-duty ——— Unimproved dirt - - - - - -

◯ State Route



QUADRANGLE LOCATION

IPSWICH, MASS.

N4237.5—W7045/7.5

1966

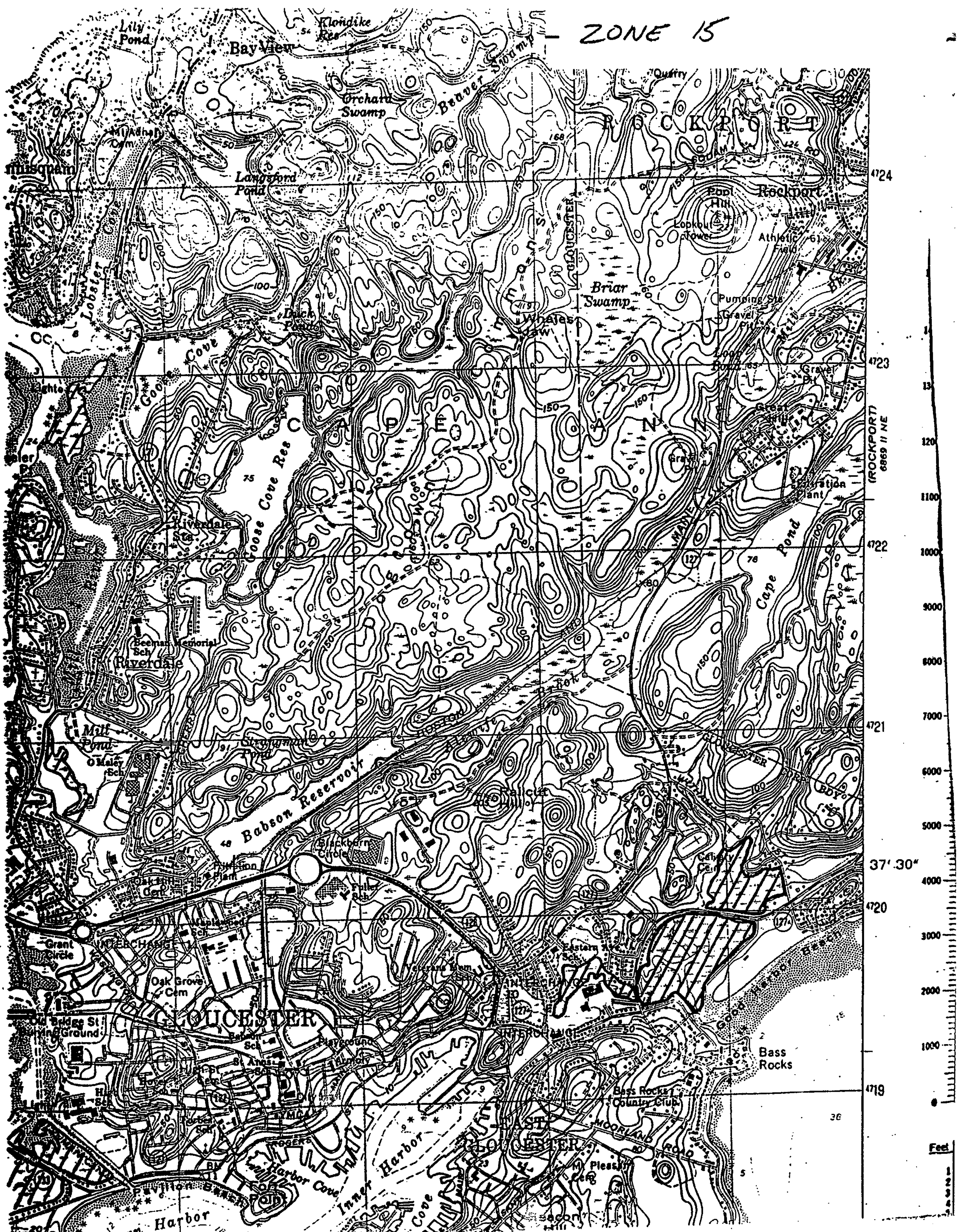
AMS 6869 III NE—SERIES V814

- ZONE 13

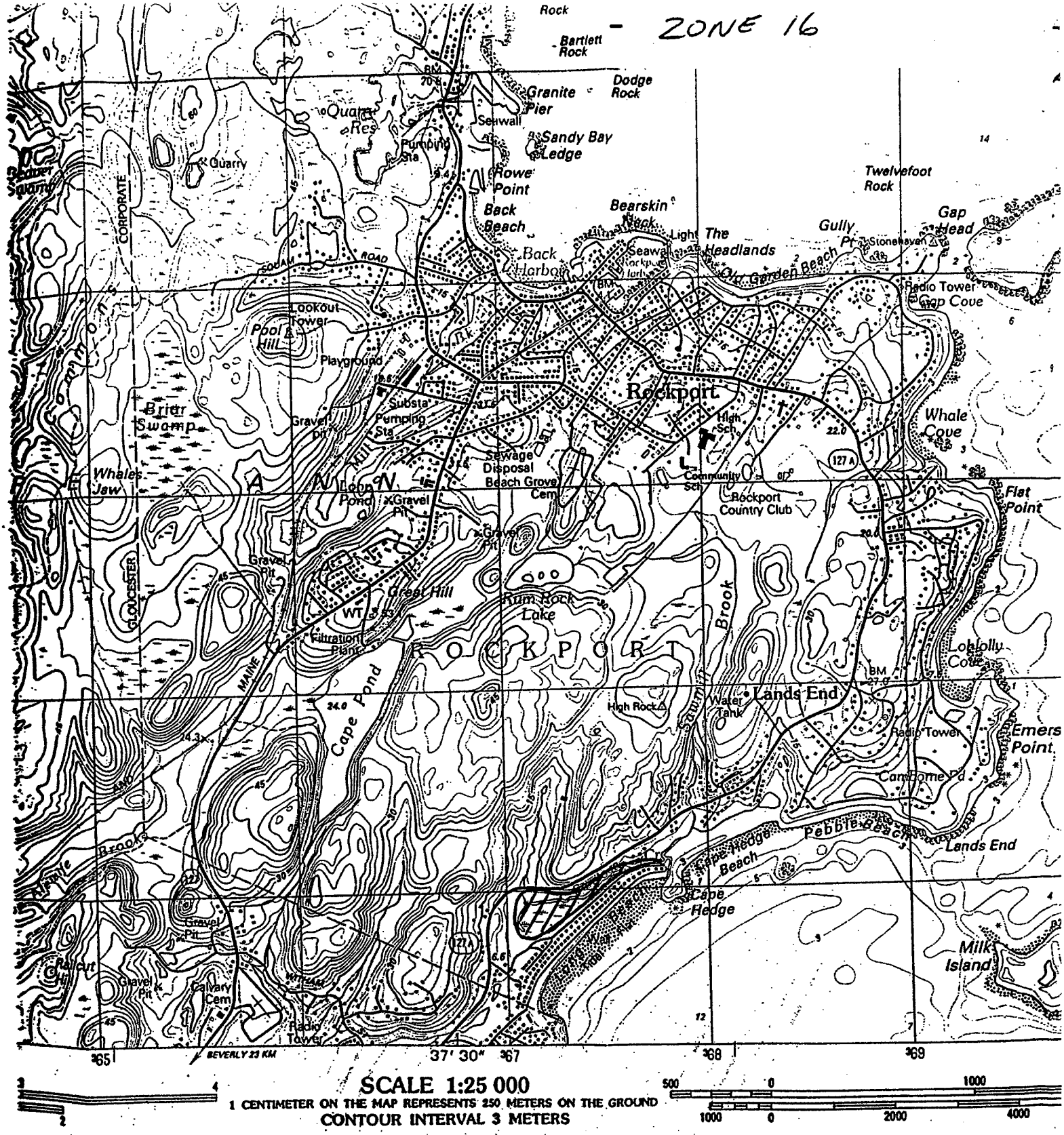
- ZONE 14

Wigwam Pt
Annisquam Lighthouse
Coast Guard Sta
Annisquam
Lily Pond
Bay View
Klondike Res
Orchard Swamp
Langsford Pond
Coffins
Wingaersheek Beach
Bald Rocks
Farm Pt
Babson Pt
Lobster Cove
Goose Cove
Duck Pond
Sleepy Hollow Pond
Wheeler Pt
Goose Cove Res
Riverdale Sta
River
Thurston Pt
Pearce Island
Annisquam River
Beeman Memorial Sch
Riverdale
Riverview
Mill Pond
O'Maley Sch
Sunset Hill
Riverview Landing
Babson Reservoir
INTERCHANGE
Drive-in Theater
Oak Hill Cem
Blackburn Circle
Biskie Head
Wolf Hill
Stanwood Pt
Grant Circle
INTERCHANGE
Oak Grove Cem
Presson Pt
Little River
Old Bridge St Burying Ground
GLOUCESTER
Lower Banjo Pond
Upper Banjo Pond
YMCA
Harbor
Fernwood
Filtration Plant
Light

ZONE 15


Lily Pond
Klondike Res
Bay View
Beaver Swamp
Orchard Swamp
Quarry
ROCKPORT
Langsford Pond
Rockport
Pool Hill
Lookout Tower
Athletic Field
Briar Swamp
Pumping Sta
Gravel Pit
Whales Jaw
Duck Pond
Goose Cove
Lobster Cove
Great Hill
CAPE ANN
Goose Cove Res
Filtration Plant
Riverdale Sta
Cape Pond
Beeman Memorial Sch
Riverdale
Mill Pond
O Maley Sch
Babson Reservoir
Blackburn Circle
Fuller Sch
Oak Hill Cem
Grant Circle
INTERCHANGE
Oak Grove Cem
GLOUCESTER
Old Bridge St Burying Ground
Playground
Veterans Mem
Eastern Ave Sch
Good Harbor Beach
Bass Rocks
Bass Rocks Country Club
MOORLAND ROAD
EAST GLOUCESTER
Harbor Cove
Inner Harbor
Western Harbor
YMCA
(ROCKPORT) 6869 II NE
4724
4723
4722
4721
4720
4719
37'30"
Feet

- ZONE 16



SCALE 1:25 000

1 CENTIMETER ON THE MAP REPRESENTS 250 METERS ON THE GROUND

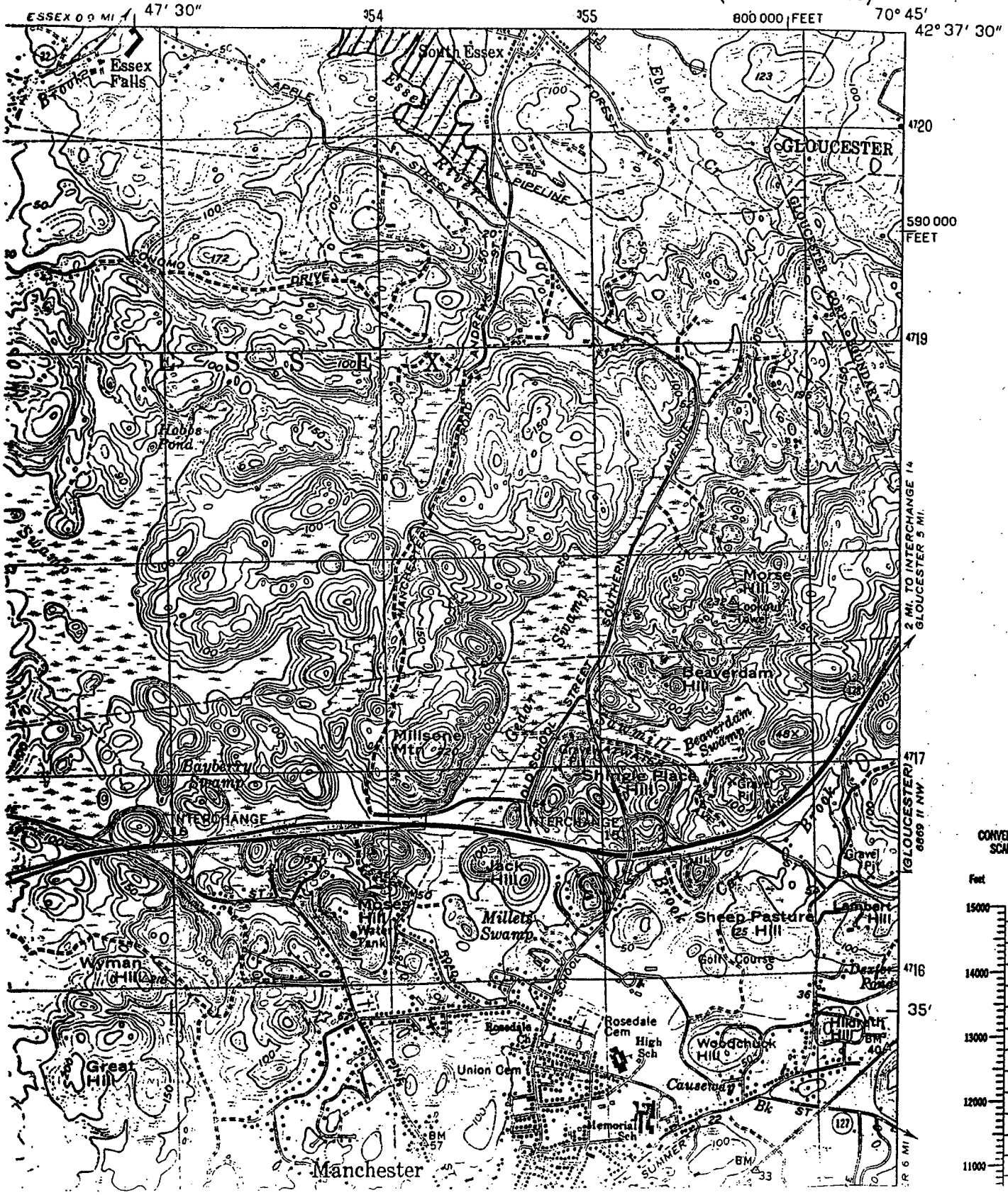
CONTOUR INTERVAL 3 METERS

- ZONE 17

TS

MARBLEHEAD NORTH QUADRANGLE
MASSACHUSETTS—ESSEX CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

6869 II NW (GLOUCESTER)



CONVERSION SCALES

Feet	Meters
15000	4500
14000	4000
13000	4000
12000	3500
11000	

ZONE 18


Beaverdam Hill
Beaverdam Swamp
Cedar Swamp
Millsone Mtn
Bayberry Swamp
Shingle Place Hill
Gravel Pit
INTERCHANGE 16
INTERCHANGE 15
OLD SCHOOL STREET
Sawmill
Jack Hill
Moses Hill
Water Tank
Millets Swamp
Sheep Pasture Hill
Golf Course
Lambert Hill
Wyman Hill
Great Hill
Rosedale Cem
Rosedale Ch
High Sch
Union Cem
Woodchuck Hill
Hildreth Hill
Causeway
Memorial Sch
Manchester
Saw Rock
Eagle Hill
Brookwood Sch
Gravel Pit
BRIDGE
West Manchester
Nortons Pt
Manchester Harbor
MANCHESTER
Proctor Pt
Glass Head
Black Cove
Chubb Pt
Chubb I
Gales Pt
Tidal Flat
Ram Islands
Lobster Cove
Ballarach Cove
Rock Dundy
Salt Rock
Pickworth Pt
Pickett Ledge
Eagle Head
Singing Beach
House Island
Sauli Rock
BAY
BEVERLY
CORPORATE
Whaleback
Great Misery Island
(SALEM CITY)
Little Misery Island
(SALEM CITY)
4717
4716
4714
4713
35'
(GLOUCESTER)
6869 II NW
GLOUCESTER 6 MI.
CONVERSION SCALES
Feet
Meters
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
4500
4000
3500
3000
2500
2000
1500
1000
900
800
700
600
500

Mapped, edited, and published by the Geological Survey

Control by USGS, NOS/NOAA, and Massachusetts Geodetic Survey

Planimetry by photogrammetric methods from aerial photographs taken 1939. Topography by planetable surveys 1942. Revised from aerial photographs taken 1972. Field checked 1973

Selected hydrographic data compiled from NOS 243 (1973)
This information is not intended for navigational purposes

Polyconic projection. 1927 North American datum
1000-foot grid based on Massachusetts coordinate system, mainland zone
1000-metre Universal Transverse Mercator grid, zone 19

MN GN
16° 284 MILS
1°09' 20 MILS

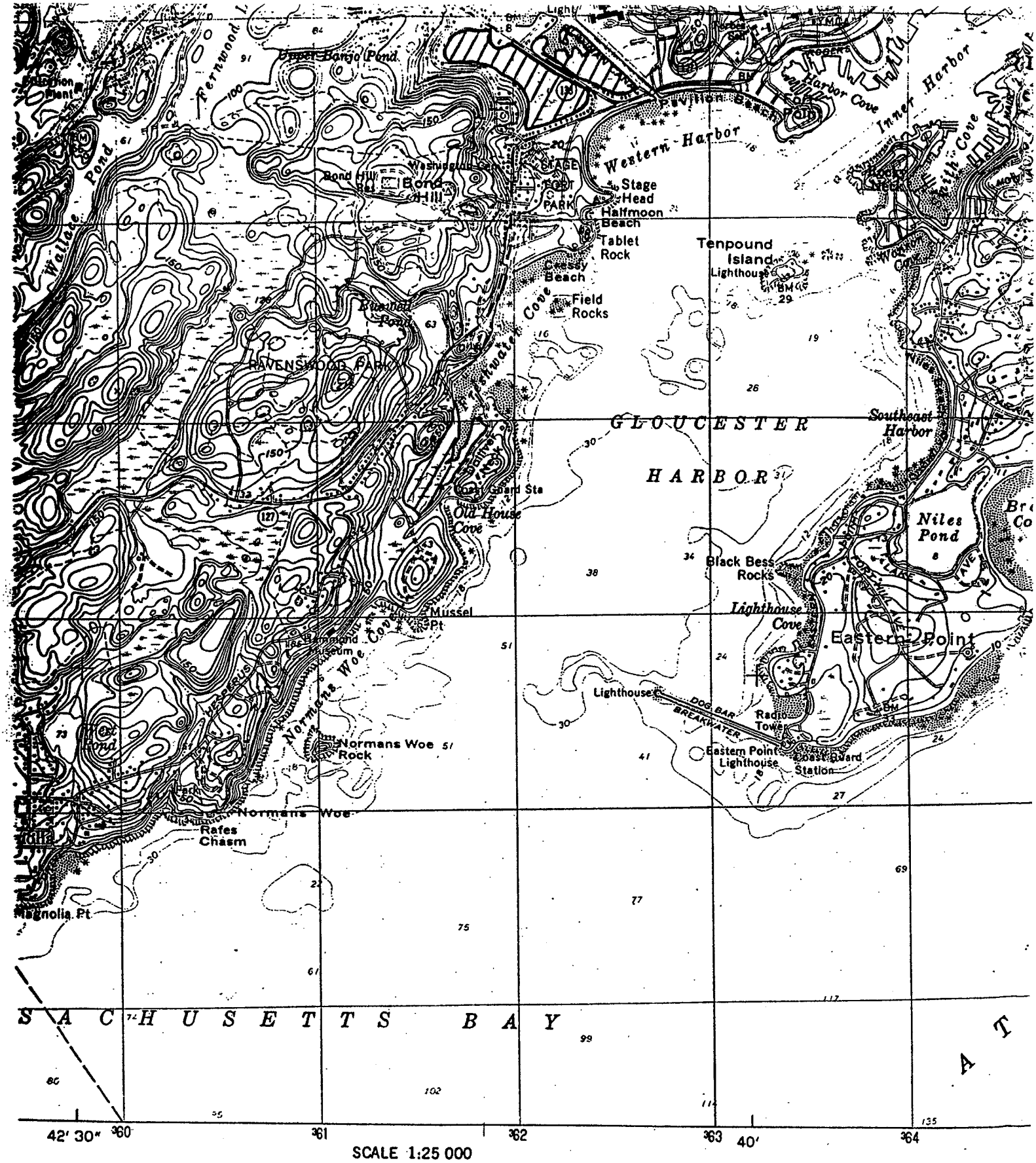
UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE

1 1/2
1000 0 1000 2000
1 .5

CONTOUR IN
NATIONAL GEODETIC
DEPTH CURVES AND SOUNDINGS
SHORELINE SHOWN REPRESENTS THE
THE MEAN RANGE OF TID

THIS MAP COMPLIES WITH NAT
FOR SALE BY U.S. GEOLOGICAL


Upper Banjo Pond
Wallace Pond
Fernwood
Pavilion Beach
Harbor Cove
Inner Harbor
Western Harbor
Bond Hill
Washington
STAGE FORT PARK
Stage Head
Halfmoon Beach
Tablet Rock
Tenpound Island
Lighthouse
Cressy Beach
Field Rocks
Bennett Pond
RAVENSWOOD PARK
Old House Cove
Coast Guard Sta
GLOUCESTER
HARBOR
Southeast Harbor
Niles Pond
Black Bess Rocks
Lighthouse Cove
Eastern Point
Mussel Pt
Hammond Museum
Normans Woe Cove
Normans Woe Rock
Lighthouse
DOG BAR BREAKWATER
Radio Tower
Eastern Point Lighthouse
Coast Guard Station
Rafes Chasm
Magnolia Pt
SACHUSETTS BAY
42° 30'
40'
SCALE 1:25 000
1 MILE
7000 FEET
1 KILOMETRE
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW W/
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 8.7 FEET
ZONE 20


Tapleyville
Walnut Grove Cem
Interchange 23
Liberty Tree Mall
Radio Towers (WNLO)
Endicott St
Interchange 21
Fox Hill Sch
Danversport
Danversport Sch
Riverside Sch
Porter River
Crane River
Waters River
Danvers River
Fosters Pt
Upton Sch
Royal Side Sch
Taft Ave
Shortell Ave
Elliott St
Bridge St
Livingstone Ave
Kernwood Ave
Kernwood Park
Salem
Bnai Brith Cem
Chelsea Cem
North Shore Shopping Center
Golf Course
Peters Point
Fenwick High Sch
Interchange
Buxton Hill
St Josephs Sch
Farnsworth Sch
Seeglitz Jr High Sch
Bates Sch
Greenlawn Cemetery
Lowell St
Center Sch
Thomas Hospital
Tremont
Walnut
Pickering Sch
Sheridan Sch
Fire Sta
Peabody
High Sch
Fox Hill
Harmony Grove Cemetery
Old South Cem
Boston St
Washington
Bowditch Sch
Oliver Sch
City Hall
Museum
Salem Common
Essex
Harbor St
Derby
Fire Sta
Playground
Meadow Pond
South Peabody
Cemetery Rd
Sidneys Pond
Spring Pond
Peabody Reservoir
Salem Hospital
Highland
Hancock St
Laurel St
Leach St
Palmer
Salem

ZONE 21

- ZONE 22 -

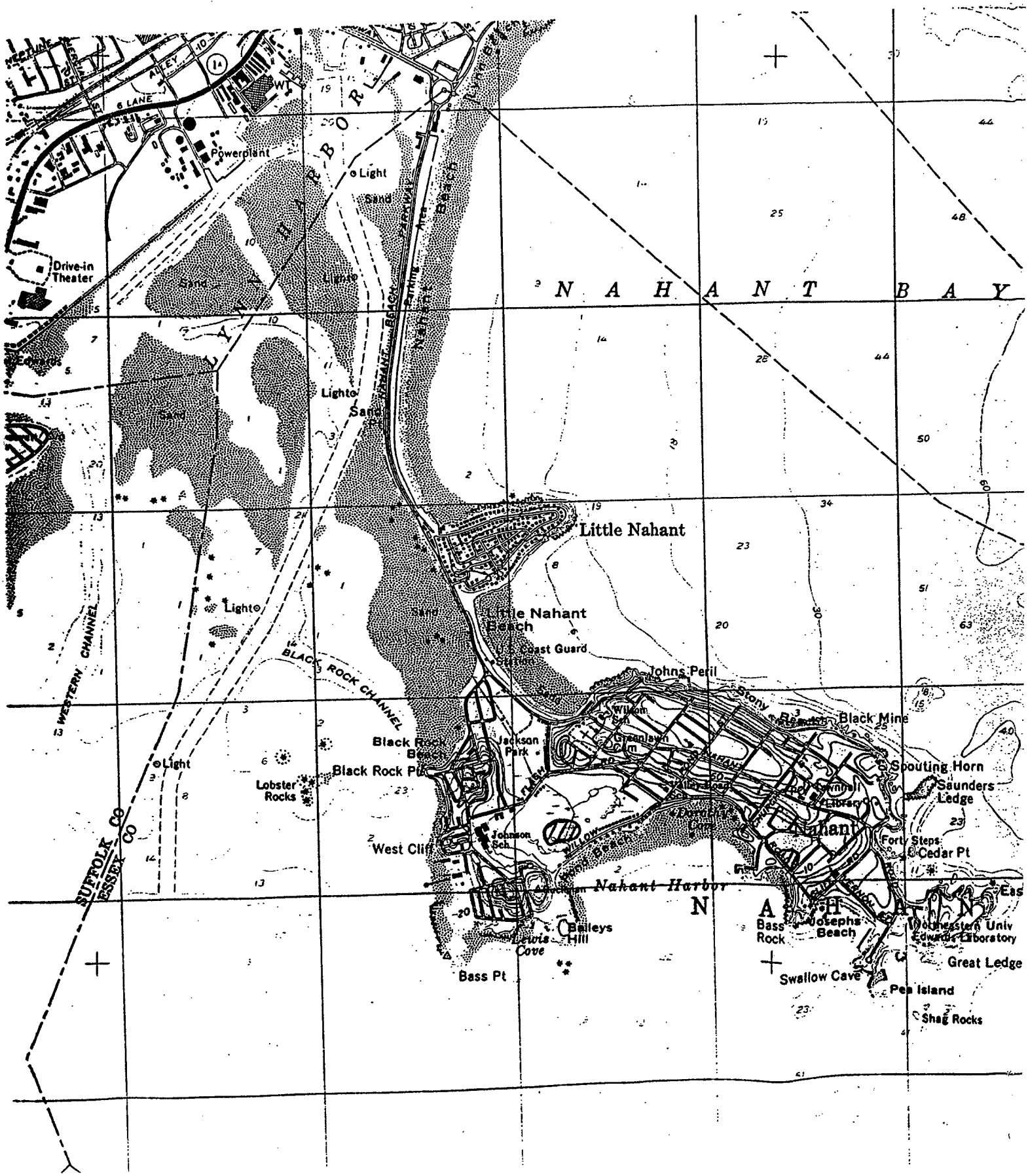
:SACHUSETTS
C WORKS

LYNN QUADRANGLE
MASSACHUSETTS
7.5 MINUTE SERIES (TOPOGRAPHIC)

- ZONE 23


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
6869 III SW (SALEM)
COMMON
DEF
70° 52′ 30″
42° 30′
347000m E
MARBLEHEAD 0.6 MI.
348
349
50′
350
1.4 MI. TO MASS. 1A
4706000m N
4705
4704
4703
27′ 30″
4702
LYNN (MASS. 1A) 4.2 MI.
MARBLEHEAD
Skinner Head
Boden Pt
Castle Rock
Marblehead Neck
Tom Moore Rock
BM X65
Roads Sch
High Sch
Bell Sch
Tower Sch
Library
Fire Sta
Star of the Sea Sch
Seaside Park
Lady's Drive
Harbor
Marblehead Neck
Devereux
Devereux Beach
Causeway
Flying Point
Tinkers Island (SALEM CITY)
Little Pig Rocks
Ram Island
Sammy Rock
Great Pig Rocks
Southwest Breakers
BAY

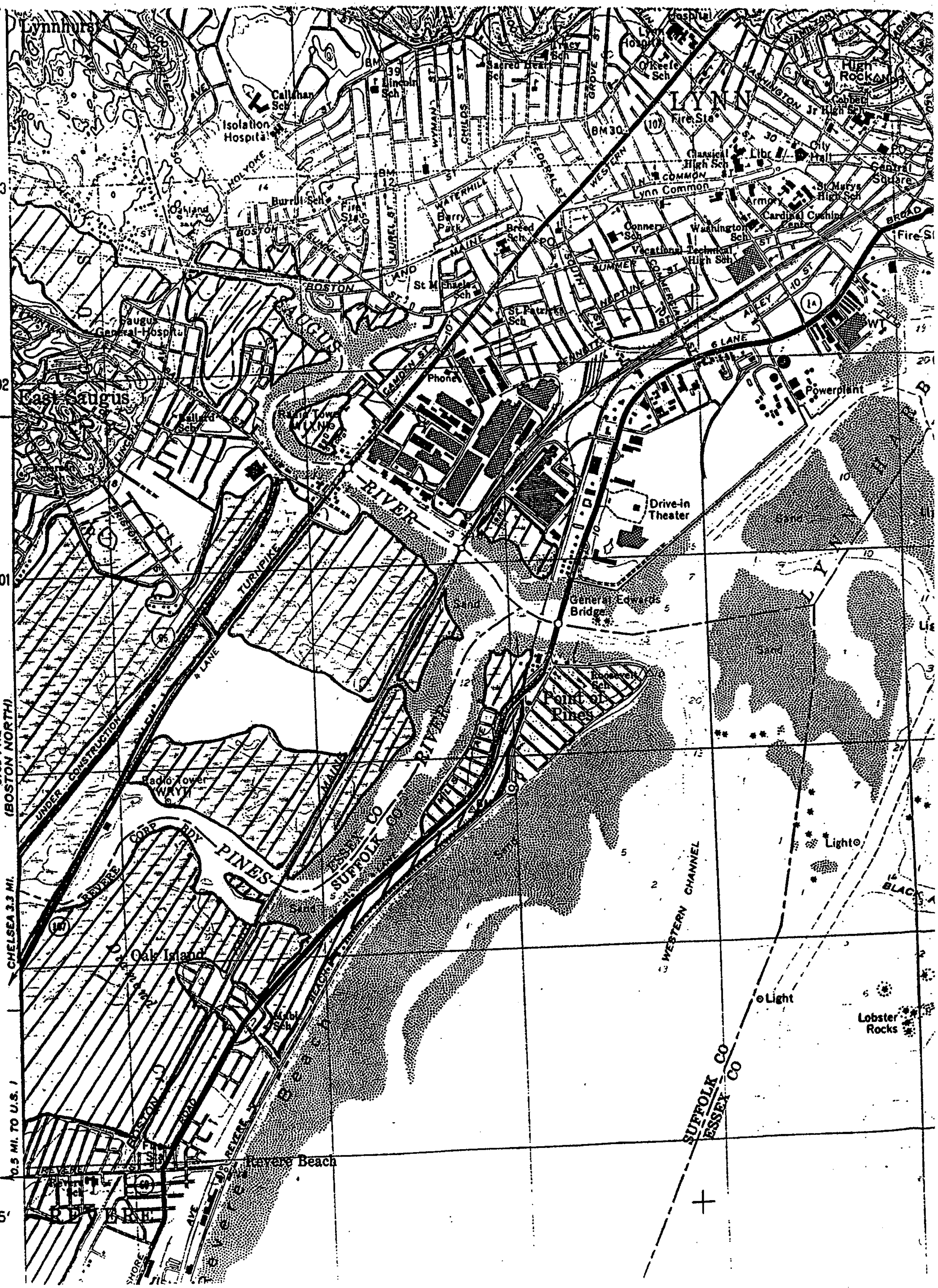
- ZONE 24


Drive-in Theater
Powerplant
Light
Sand
Parking Area
Nahant Beach
N A H A N T B A Y
Little Nahant
Little Nahant Beach
U.S. Coast Guard Station
Johns Peril
Stony Beach
Black Mine
Spouting Horn
Saunders Ledge
Fort Steps
Cedar Pt
Nahant
Nahant Harbor
Bass Rock
Joseph's Beach
Northeastern Univ Edwards Laboratory
Great Ledge
Pea Island
Shag Rocks
Swallow Cave
Bass Pt
Bailey's Hill
Lewis Cove
West Cliff
Johnson Sch
Willow Beach
Black Rock Beach
Black Rock Pt
Jackson Park
Greenlawn Cem
Lobster Rocks
BLACK ROCK CHANNEL
WESTERN CHANNEL
SUFFOLK CO
ESSEX CO
ALLEY
6 LANE
WT

- ZONE 25

MIDDLESEX CO
ESSEX CO
Spring Pond
Griswold Pond
Drive-in Theater
S A U G U S
Oakland Vale
Lynnhurst
Vinegar Hill
Bennetts Pond
PARKWAY
BROADWAY
Athletic Field
Saugus Ironworks National Historic Site
Saugus
MAIN ST
Golf Course
Stevens Pond
Shute Brook
Waybright Sch
BM 21
Shopping Center
Saugus High Sch
Riverside Cem
27'30"
Pleasant Hills
Winthrop Sch
Melrose Common
Long Pond
Veterans Memorial Sch
Radio Towers
Mt Hood
MT HOOD MEM PARK
Quarry
Library
Playground
Cliftondale
Towners Pond
Golf Course
Baker Hill
Water Tank
Swains Pond
PENNY ROAD
Windy
Franklin Park
Quarry
Saugus Race Track
Pines
ESSEX CO
SUFFOLK CO
Trafton Park
Maplewood
Linden
Drive-in Theater
Seaplane Basin
Roosevelt Park
BOSTON AVE
Shopping Center
HOLY CROSS
CEMETERY
Daniels Sch
Faulkner
High Sch
Beth Israel
Hosp
4704
4703
4702
4701
4699
(LYNN)
6868 IV NW
SALEM 9 MI.

- ZONE 26



Lynnhurst
Callahan Sch
Isolation Hospital
Lincoln Sch
Sacred Heart Sch
Lynn Hospital
O'Keefe Sch
LYNN
High Rock
Fire Sta
Classical High Sch
Libr
City Hall
Central Square
Lynn Common
St Marys High Sch
Armory
Cardinal Cushing Center
Burrill Sch
Oakland
Barry Park
Breed Sch
Connery Sch
Washington Sch
Vocational Technical High Sch
St Michaels Sch
St Patricks Sch
Saugus General Hospital
SAUGUS
East Saugus
Ballard Sch
Phone
Powerplant
Drive-in Theater
RIVER
TURNPIKE
4 LANE
6 LANE
General Edwards Bridge
Sand
Roosevelt Sch
Point of Pines
Radio Tower (WRYT)
PINES
RIVER
ESSEX CO
SUFFOLK CO
UNDER CONSTRUCTION
Oak Island
Revere Beach
REVERE
WESTERN CHANNEL
Light
Lobster Rocks
SUFFOLK CO
ESSEX CO
4703
27' 30"
4702
4701
25'
6768 I NE (BOSTON NORTH)
CHELSEA 3.3 MI.
0.5 MI. TO U.S. 1


CEMETERY
Lincoln Sch
Newman Park
McGrann Playground
Beth Israel Cem
FULLER ST
Glenwood Cem
Wehner Park
Lafayette Sch
WOODLAWN
CEMETERY
Hosp
Whelan Sch
REVERE
Brown Circle
PROCTOR
Lincoln Sch
Park
Library
Hale Sch
Whittier Playground
Glendale
Glendale Park
ELM
Webster Sch
MIDDLESEX CO
SUFFOLK CO
Aitchenbach Sch
Barrows Sch
Revere Memorial Hospital
FARM
RESERVOIR
Paul Revere Park
Fire Sta
Parlin Jr High Sch
High Sch
Mann Sch
Mt Washington
Hamilton Sch
Voke Park
Fennos Hill
McKinley Sch
Reservoir
Fire Sta
Shurtleff Sch
EVERETT
Devens Sch
City Hall
Whidden Memorial Hospital
NICHOLS
SUFFOLK
PO
City Hall
Libr
High Sch
Everett Square
Libr
PO
Police Sta
Armory
Washington Park
Prattville Sch
PARKWAY
BEACH
Centre Sch
Schaff Playground
Everett Mem Stadium
UNION
Fire Sta
BEACH
REVERE
LANE
Powder Horn Hill
Hospital
Malone Park
Dever Park
Mill Hill
Massachusetts Soldiers Home
Memorial Stadium
Fire Sta
Merritt Park
MAINE
CHELSEA
Armory
RIVER
BOSTON
High Sch
Williams Sch
Fire Sta
Library
City Hall
Mt Bellingham
Memorial Hospital
U.S. NAVAL HOSPITAL
Island End R
Suffolk Downs Park
Orient Heights
St Lazarus Sch
Playground
Highland Park
CENTRAL
AVE
MARGINAL
Drydock
Mystic River Bridge (Double-deck)
MYSTIC WHARF
Boston
CHELSEA
Orient Heights Beach
CONDOR ST
BENNINGTON
SARATOGA
Tollgate
High Sch
Playground
Inner
LITTLE MYSTIC CHANNEL
BOSTON
Harbor
Eagle Square
Fire Sta
Chapman Sch
East Boston
Cem
MBTA
HARBOR
BOSTON
Tidal Flat
Logan International Airport
WINTHROP
Drydock
U.S. NAVAL RESERVATION
Bunker Hill Monument
Central Sq
INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1979
331
2'30"
BOSTON (CITY HALL) 1.9 MI.
333
334
335000m E
71°

25 000

1 MILE

4000 5000 6000 7000 FEET

1 KILOMETER

ROAD CLASSIFICATION

Primary highway, hard surface

Light-duty road, hard or improved surface

AL 10 FEET
AL DATUM OF 1929

- ZONE 27

ZONE 28

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and Massachusetts Geodetic Survey

Planimetry by photogramm...

- ZONE 19

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH
DEPARTMENT