

NOTES TO USERS

is for use in administering the National Flood Insurance Program. It does not identify all areas subject to flooding, particularly from local drainage of small size. The community map repository should be consulted for updated or additional flood hazard information.

more detailed information in areas where **Base Flood Elevations (BFEs)** have been determined, users are encouraged to consult the Flood Floodway Data and/or Summary of Stillwater Elevations tables contained in the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users are aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and are not to be used as the sole source of flood elevation information. Accordingly, any data presented in the FIS Report should be utilized in conjunction with the FIS Report for purposes of construction and/or floodplain management.

Base Flood Elevations shown on this map apply only to landward of 0.07 vertical datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations in the Summary of Stillwater Elevations table should be used for construction and floodplain management purposes when they are higher than the elevations shown on this FIRM.

of the **floodways** were computed at cross sections and interpolated cross sections. The floodways were based on hydraulic considerations with requirements of the National Flood Insurance Program. Floodway widths shown on this map are provided in the Flood Insurance Study Report for this jurisdiction.

was not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

tion used in the preparation of this map was Massachusetts State Plane Zone (FIPS zone 2001). The horizontal datum was NAD 83, GRS 1980. Differences in datum, spheroid, projection or UTM zones used in the preparation of this FIRM for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

ations on this map are referenced to the North American Vertical Datum of 1988. For information regarding conversion from the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at ngs.noaa.gov or contact the National Geodetic Survey at the following telephone numbers:

Information Services
NGS12
Geodetic Survey
#9202
1-West Highway
College Park, Maryland 20710-3282
3042

urrent elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Information shown on this FIRM was derived from digital orthophotography by the Massachusetts Geographic Information System. This information was derived from photography dated 2005.

Baseline depicted on this map represent the hydraulic modeling baseline in the flood profiles in the FIS report. As a result of improved topographic data, the baseline, in some cases, may deviate significantly from the channel or seaport outside the SFHA.

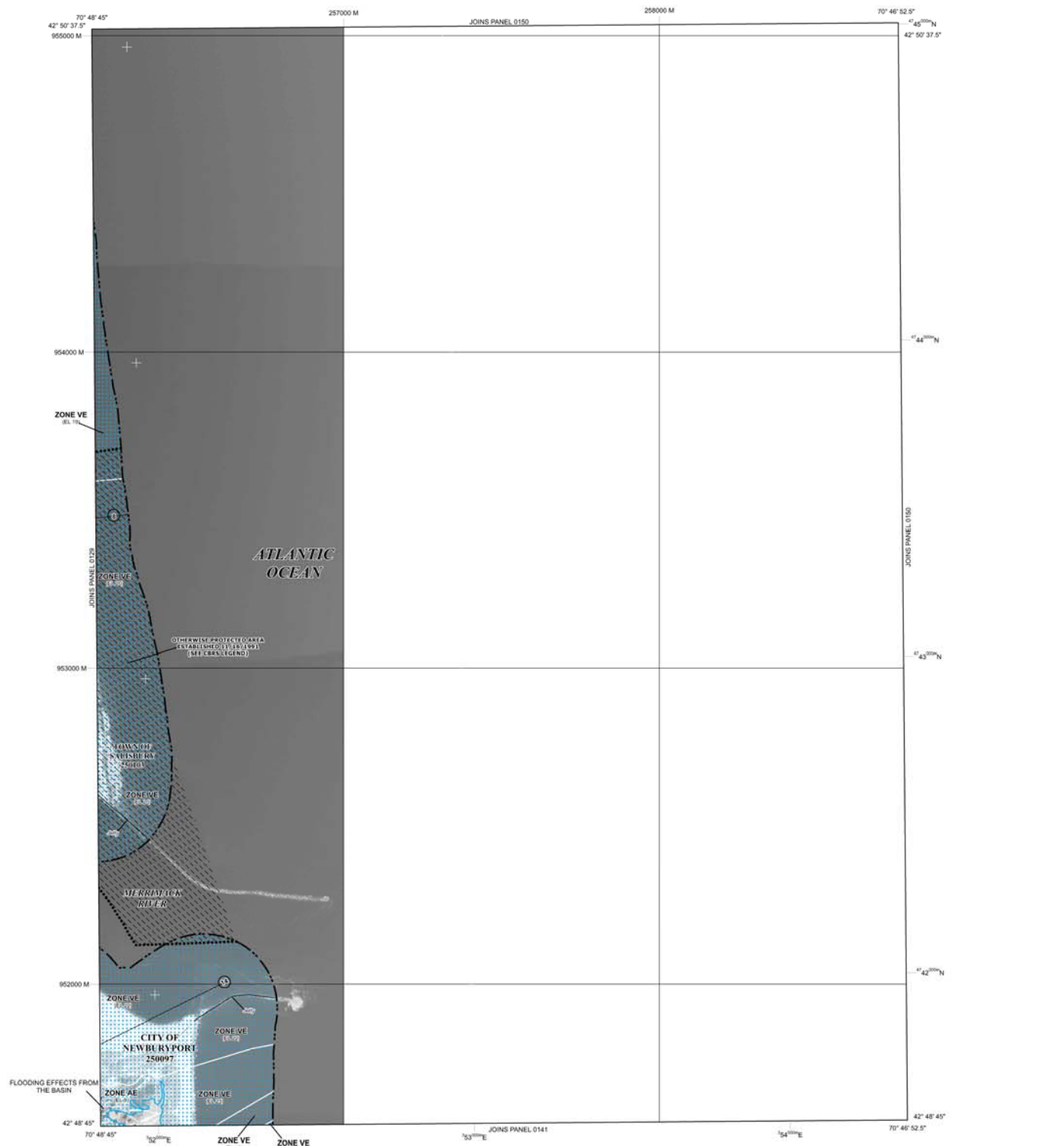
Updated topographic information this map reflects more detailed and stream channel configurations and floodplain delineations than shown on the previous FIRM for this jurisdiction. As a result, the Flood Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect channel distances that differ from what is shown on the map. Also, the floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

Limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred since this map was published, map users should contact appropriate officials to verify current corporate limit locations.

Refer to the separately printed **Map Index** for an overview map of the layout of map panels, community map repository addresses, and a listing of Communities table containing National Flood Insurance Program community numbers as well as a listing of the panels on which each community number is located.

Information on available products associated with this FIRM visit the **Map Center (MSC)** website at <http://map.fema.gov>. Available products may include: Letters of Map Change, a Flood Insurance Study Report, digital versions of this map. Many of these products can be ordered directly from the MSC website.

For **more questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information Center (FIMC)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/fimc>.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
The 1% annual chance flood (100-year flood), also known as the "base flood," is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AV, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

ZONE A
No Base Flood Elevations determined.

ZONE AE
Base Flood Elevations determined.

ZONE AH
Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevation determined.

ZONE AO
Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); Base Flood Elevation determined. For areas of actual flat flooding, velocities also determined.

ZONE AR
Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. The AR indicates that the former flood control system is being restored to protection from the 1% annual chance or greater flood.

ZONE AV
Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE VE
Coastal flood zone with velocity hazard (wave action); no Base Flood Elevation determined.

FLOODWAY AREAS IN ZONE AE
The floodway is the channel of a stream plus any adjacent floodplain areas that must be approached so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X
Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D
Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

BOUNDARIES
1% Annual Chance Floodplain Boundary
0.2% Annual Chance Floodplain Boundary
Floodway boundary
Zone boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Areas and floodplains of different Base Flood Elevation, or flood velocity.

ELEVATIONS
Base Flood Elevation line and value, elevation in feet (ft) (e.g., 10.0)
Base Flood Elevation value where uniform within zone, elevation in feet (ft) (e.g., 10.0)

VERTICAL DATUM
Referenced to the North American Vertical Datum of 1988

CROSS SECTIONS
Cross section line
Traverse line
Current
Bridge

COORDINATES
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
4980000 M
42° 50' N
DMS15 X
Bench mark (see explanation in Notes to Users section of this map)
BM 15

MAP REPOSITORIES
Refer to Map Repository for on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
July 3, 2012

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to community mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-658-6622.

MAP SCALE 1" = 500'
250 500 1000
150 0 150 300
METERS

COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND

1 Otherwise Protected Area (OPA)
INSURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR FULLY APPROVED ON OR AFTER NOVEMBER 16, 1991 IN DESIGNATED WITHIN THE CBRS.

es of the John H. Chafee Coastal Barrier Resources System (CBRS) this FIRM were transferred from the official CBRS source map(s) and are depicted on this FIRM for informational purposes only. All CBRS maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and maintained by the U.S. Fish and Wildlife Service (FWS). The official CBRS maps used to determine whether or not an area within the CBRS are available for download at <http://www.fws.gov>. Official determination of whether or not an area is located within the CBRS for any questions regarding the CBRS, please contact the FWS field office at 603-223-2541.

NFP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0133F

FIRM
FLOOD INSURANCE RATE MAP
ESSEX COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)

PANEL 133 OF 600
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY NUMBER	PANEL
NEWBURYPORT CITY OF 25097	0133
HALEBURT TOWNSHIP OF 20013	0133

NOTE:
THIS MAP INCLUDES BOUNDARIES OF THE COASTAL BARRIER RESOURCES SYSTEM ESTABLISHED UNDER THE COASTAL BARRIER RESOURCES ACT OF 1982 AND AS AMENDED. For more information, see the Flood Insurance Study Report for this jurisdiction.

Notice to User: The Map Number shown above should be used when placing map on Community Number shown above should be used on insurance applications for the community.

MAP NUMBER 25090C
EFFECTIVE DATE JULY 3, 2012
Federal Emergency Management Agency