

**NOTES TO USERS**

is for use in administering the National Flood Insurance Program. It does not identify 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 Floodway Data and/or Summary of Stillwater Elevations tables contained in the Flood Insurance Study Report that accompanies this FIR. Users aware that BFEs shown on the FIR represent rounded whole-foot values. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, original data presented in the FIS Report should be utilized in conjunction with the Flood Insurance Study Report for purposes of construction and/or floodplain management.

**Base Flood Elevations** shown on this map apply only to landward of 0.0 mean vertical datum of 1988 (NAVD 88). Users of this FIR 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/or floodplain management purposes when they are higher than the elevations shown on this FIR.

Zone category has been divided by a **Limit of Moderate Wave Action**. The LMWA represents the approximate landward limit of the 1.5-foot wave. The effects of wave hazards between the VE Zone and the LMWA on the shoreline and the LMWA for areas where VE Zones are not identified) will be, but less severe than those in the VE Zone.

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.

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 FIRs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIR.

ations on this map are referenced to the North American Vertical Datum of 1988. For information on how to compare structure and ground elevations to the same vertical datum. For information regarding conversion from the National Geodetic Vertical Datum of 1929 and the North American Datum of 1988, visit the National Geodetic Survey website at <http://ngs.noaa.gov> or contact the National Geodetic Survey at the following phone number: 1-800-732-8322.

ation Services  
NGS12  
Geodetic Survey  
#9202  
ing, Maryland 20910-3282  
3242

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

Information shown on this FIR was derived from digital topography. Base map files were provided in digital form by Massachusetts Geographic Information System (MassGIS). Ortho imagery was produced at a scale of 1:25,000 and is dated April 2008 and April 2009. The projection used in the production of this map is Massachusetts State Plane Mainland (FIPS2001), datum is NAD 83, GRS1980 spheroid.

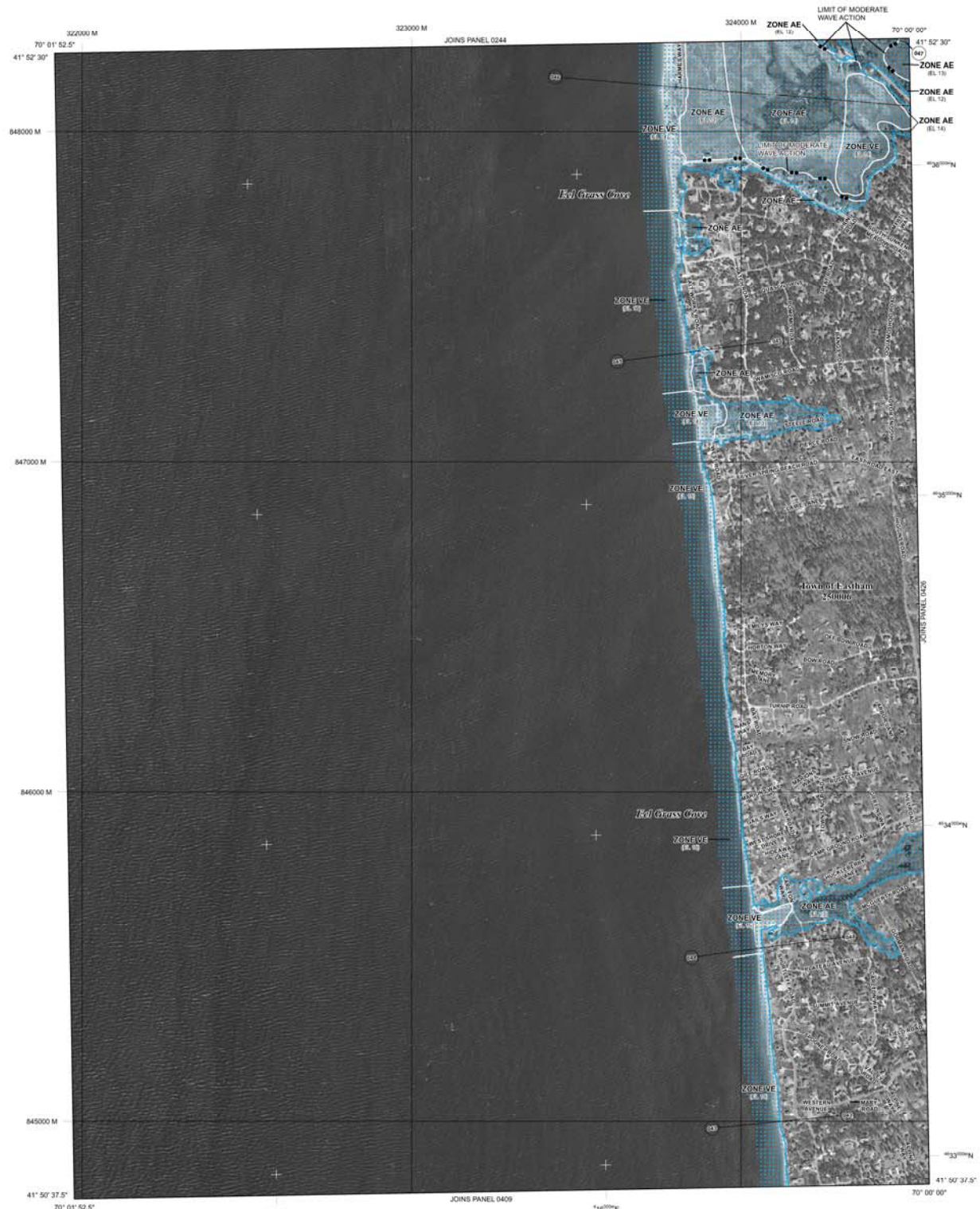
**limits** shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred since this map was published, map users should contact appropriate officials to verify current corporate limit locations.

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

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

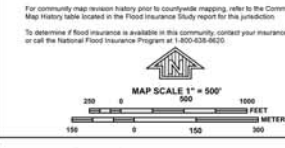
For **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information Center (FMIC)** at 1-877-FEMA-MAP (1-877-368-6271) or visit the FEMA website at <http://www.fema.gov/business/mfp>.

al structures that are identified to provide protection from the 1-percent-annual-chance flood are shown on this panel. However, all structures taken into account for the purpose of coastal flood hazard analysis and mapping are the DFIRM database in S\_Gen\_Struct.



**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 with a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AR, AV, V, and VE. The Base Flood Elevation is the water 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 ponds); 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 annual rain flooding, vehicles also determined.
- ZONE AR**  
Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently destroyed. The area indicates that the former flood control system is being restored to protect from the 1% annual chance or greater flood.
- ZONE ARB**  
Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE AV**  
Coastal flood zone with velocity hazard (wave action); no Base Flood Elevation determined.
- ZONE VE**  
Coastal flood zone with velocity hazard (wave action); 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 encroached so that the 1% annual chance flood can be carried without substantial increase in flood heights.
- OTHER FLOOD AREAS**  
**ZONE X**  
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 1% annual chance flood.
- OTHER AREAS**  
**ZONE D**  
Areas determined to be outside the 0.2% annual chance floodplain. 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.  
1% Annual Chance Floodplain Boundary  
0.2% Annual Chance Floodplain Boundary  
Floodway boundary  
Zone D boundary  
CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and floodway areas  
Special Flood Hazard Area Zones and floodway areas  
Flood depth or flood velocity  
Line of Moderate Wave Action  
Limit of Moderate Wave Action coincident with Zone Break
- Base Flood Elevation line and value; elevation in feet  
Base Flood Elevation value where uniform within zone, etc. in feet  
\*Referenced to the North American Vertical Datum of 1988
- Cross section line  
Traverse line  
Current  
Bridge
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Westem Hemisphere  
300-meter grid values; Massachusetts State Plane Mainland (FIPS Zone 2001) Lambert Conformal Conic projection  
1000-meter Universal Transverse Mercator Zone, 10N  
Bench mark (See explanation in Notes to Users section of this report)
- MAP REPOSITORY  
Refer to Map Repository list on Map Index  
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
July 16, 2014  
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL



**NFIP**  
**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0407.J

**FIRM**  
FLOOD INSURANCE RATE MAP  
BARNSTABLE COUNTY  
MASSACHUSETTS  
(ALL JURISDICTIONS)

PANEL 407 OF 875  
(SEE MAP INDEX FOR FIRM PANEL LIST)

CONTACT:  
COMMUNITY NUMBER PANEL  
EASTHAM TOWN OF 250100 0407

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

MAP NUMBER 250100  
EFFECTIVE DATE JULY 16, 2014  
Federal Emergency Management Agency