NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local draines sources of small size. The community map repository should be consulted for possible undeated or additional flood havard information.

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

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Darum of 1986 (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 shown in the Summary of Stillwater Elevations table should be used for construction and for floodplain management purposes when they are higher than the elevations shown on this Flood.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the FIS Report for this jurisdiction.

The AE Zone category has been divided by a Limit of Moderate Wave Action (LIMWA). The LIMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LIMWA (or between the Set Described of the LIMWA of the Company of the LIMWA of the Set Described of the Set Described of the LIMWA of the Set Described of the Set Described of the LIMWA of the Set Described of the Set Des

Certain areas 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.

The projection used in the preparation of this map was Massachusetts State Plane Mainland (FIPS zone 2001). The horizontal datum was NAD 83, GRS 1983 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs 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.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1989, with the National Geodetic Survey website at the "Live"/Jewa mgs. noaa gov or cortact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current 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 https://www.ngs.noaa.gov.

Base map information shown on this FIRM was derived from the Massachusetts Geographic Information System (MassGIS) and the U.S.D.A. Farm Service Agency National Agriculture Imagery Program (NAIP). Aerial photography is dated 2005, April 2008, and 2010.

The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the profile baseline, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this may.

Corporate 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 after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

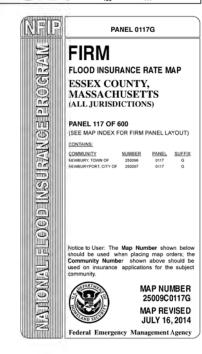
Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the Map Service Center (MSC) website at http://msc.fema.gov/ available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products, or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/filip.

250000 M 70° 54' 22 5" 950000 M 219 949000 M 42" 46" 52.5" 70" 52" 30"

LEGEND SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INJUNDATION BY THE 1 1% ANNUAL CHANCE FLOOD The 1% served intereo frod (100 years flood), also known as the base flood is the flood that has a 1% critime of being squared or excessed in any given year. The Special Flood Hazard Area is the use satistict to Rodolle 50 the Invanced chance of Special Flood Hazard Area is flowed as the Chance of Special Flood Hazard Area is flowed as the Chance of Special Flood Hazard Area is flowed as the Chance of Special Flood Hazard Area is flowed as the Chance of Special Flood Hazard Area is flowed as the Chance of Special Flood Hazard Area is flowed as the Chance of Special Flood Hazard Area is flowed as the Chance of Special Flood Hazard Area is flowed as the Chance of Special Flood ZONE A No Blue Fired Edwations determined. ZONE AE Base Flund Elevations determined. ZONE AH Fixed deprise of \$1 to 3 feet (usually areas of ponding); Base Flood Elevations determined ZONE AG Special Blook stazed Areas formerly protected from the 1% annual chance stood by a flood control system that was subsequently described. Zone All relicious high the former flood control system is being restored to provide projectable from the 1% annual chance or greater flood. Area to be protected from 1% annual chance flood by a Federal flood presenting system under construction, no Base Flood Deviations determined. ZONE V ZONE VE 200 FLOODWAY AREAS IN ZONE AE is the channel of a stream plus any adjacent floodplain areas that must be kept free is a fliat the 1% and chance flood can be carried without substantial increases in OTHER FLOOD AREAS Nem of 0.7% = 1 chance flood; areas of 1% annual chance flood with inversige depths of less than 1 foot or with drainage areas less than 1 square mile; and areas presented by levees from 1% annual chance flood. ZONE X OTHER AREAS ZONE X Areas determined to be outside the 0.2% annual chance floodplai 11111 COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS CDRS-areas and Office are rormally sucuted within or adjacent to Special Flood Hazard Area 5.2% Arnual Chance Floodplain Boundary Fissitiway boundary CBRS and OPA boundary -Base Flood Elevation line and value; elevation in feet* Bisse Flood Elevation value where uniform within zone; elevation in final! (A)— Chase section line 3 ------ 23 45" 02' 08", 95" 02' 12" 1906-mijter ticks: Massachusetts State Plane Mainland Zone (FIPS Zöne 2001), Lambert Conformal Conic projection 1900-mister Universal Transverse Mercator grid values, zone 19 **BS/OWN N Benda mark (see explanation in Notes to Users section of this FIRM DX5510 X NAP REPOSITORIES Refer to Map Repositories list on Map Index Herin to May repositiones list on May Index EFFECTIVE DATE OF COUNTY/WIDE FLOOD INSURANCE RATE MAP July 3, 2012 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL July 16, 2014 - to change Base Flood Elevations and Special Flood Hazard Areas, to change zone designations, to update the effects of wave action, to update corporate imma. to add mads and mad nimes, to incorporate previously issued Letters of Map Revision and to modify Coastal Barrier Resources System units.



250 0 MAP SCALE 1" = 500'

Only coastal structures that are certified to provide protection from the 1-percentchance annual flood are shown on this panel. However, all structures taken into consideration for the purpose of coastal flood hazard analysis and mapping are present in the DFIRM database in S_Gen_Struct.