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 drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard 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 this 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 FIS 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' National North American 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 tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

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 Flood Insurance Study report for this jurisdiction.

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 zone (FIPSZONE 2001), meters. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane 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 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact 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 http://www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Energy and Environmental Affairs. This information was derived from digital orthophotos produced at a scale of 1:5,000 from aerial photography dated April 2005.

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 in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

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.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://msc.fema.gov.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov.

JOINS PANEL 0138
71°22'30"
42°37'30"
71°20'37.5"
42°37'30"
ZONE X
930000 FT
47°25'000"N
47°24'000"N
47°23'000"N
JOINS PANEL 0232
JOINS PANEL 0252
42°35'37.5"
71°22'30"
7°98'000"E
JOINS PANEL 0253
7°99'000"E
42°35'37.5"
71°20'37.5"
ZONE X
City of Lowell
250201
Town of Chelmsford
250188
Town of Chelmsford
250188
ZONE A
ZONE AE
ZONE X
LIMIT OF DETAILED STUDY
PROFILE BASELINE
Black Brook
Beaver Brook 2
Culvert
LE MIRE COURT
NORTH ROAD
DRUM HILL ROAD
DRUM HILL ROTARY
COURTHOUSE LANE
PARKHURST ROAD
JEAN AVENUE
STEDMAN STREET
OLD CANAL DRAIN
TOWN OF CHELMSFORD
CITY OF LOWELL
GRANITEVILLE ROAD
OLDWESTFORD ROAD
ROCK ROAD
SMITH STREET
STEVENS STREET
BELMONT STREET
BASSETT BRIDGE
JOCKEY STREET
PLEASANT STREET
PARKHURST ROAD
MAXWELL ROAD
CLAUDE ROAD
GREGORY ROAD
DAVIS ROAD
ORCHARD LANE
LOCKE ROAD
MONTVIEW ROAD
SANFORD ROAD
GARLAND ROAD
BOARDWALK
WIGGIN STREET
SHEPPARD LANE
ERLIN ROAD
MONTCLAIR AVENUE
STARLIGHT AVENUE
SUNSET AVENUE
RAMBLEWOOD AVENUE
COLONIAL DRIVE
COLONIAL TERRACE
HOSKINS AVENUE
IRENE AVENUE
MIRANDA AVENUE
JENNER AVENUE
MELODY LANE
RIVERSIDE AVENUE
VILLAGEVIEW ROAD
KNOLLHILL ROAD
NEWTOWNE WAY
HEMLOCK DRIVE
NORTHGATE ROAD
SOUTHGATE ROAD
LINWOOD STREET
ALLEN STREET
FIELD STREET
CLEAR STREET
CREST STREET
PRESBILLA AVENUE
DALTON ROAD
HIDDEN WAY
BUCKMAN DRIVE
LOCKE ROAD
BRENTWOOD ROAD
FAIRHAVEN ROAD
BRENTWOOD DRIVE
TANGLEWOOD DRIVE
CHURCHILL ROAD
HORNE A MILL ROAD
HILLCREST DRIVE
DANTE LANE
WESTFORD STREET
BENTLEY LANE
ABBOTT LANE
GIFFORD LANE
PINE HILL ROAD
CLOVER HILL DRIVE
BRIDGE STREET
WESTFORD STREET
CROSBY LANE
FLETCHER STREET
CHELMSFORD STREET
WILSON STREET
ACADEMY STREET
GROVE STREET
BILLERICA ROAD
LITTLETON ROAD
ACTON ROAD
BARTLETT STREET
BOSTON ROAD
RIVER MEADOW DRIVE
ALPINE LANE
EMERSON AVENUE
CHELMSFORD STREET
MERRIMACK STREET
NORTH ROAD
MERRIMACK STREET
MERRIMACK STREET
MERRIMACK STREET
MERRIMACK STREET
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