

NOTES TO USERS

is for use in administering the National Flood Insurance Program. It is necessary to identify all areas subject to flooding, particularly from local sources of small size. The community map repository should be updated for possible updated or additional flood hazard information.

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

Base Flood Elevations shown on this map apply only to landward of the 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 Elevations tables in the Flood Insurance Study report for this jurisdiction. The Summary of Stillwater Elevations tables should be used for flood insurance and/or floodplain management purposes when they are higher than those shown on this FIRM.

Floodway data were computed at cross sections and interpolated at cross sections. The floodways were based on hydraulic considerations set to requirements of the National Flood Insurance Program. Floodway and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

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 Pennsylvania State Plane North (FIPS ZONE 3702). The horizontal datum was NAD 83, GRS80. Differences in datum, spheroid, projection or State Plane zones used in the preparation of this map may result in slight positional errors in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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 the difference between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

Information Services
NWS312
Geospatial Survey
#3202
45 West Highway
Spring, Maryland 20910-3282
3-3242

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

Map information shown on this FIRM was originated from PAMAP Program, Department of Conservation and Natural Resources, Bureau of Topographic Survey. The imagery was derived from aerial photography flown at ground sample distance in April 2008.

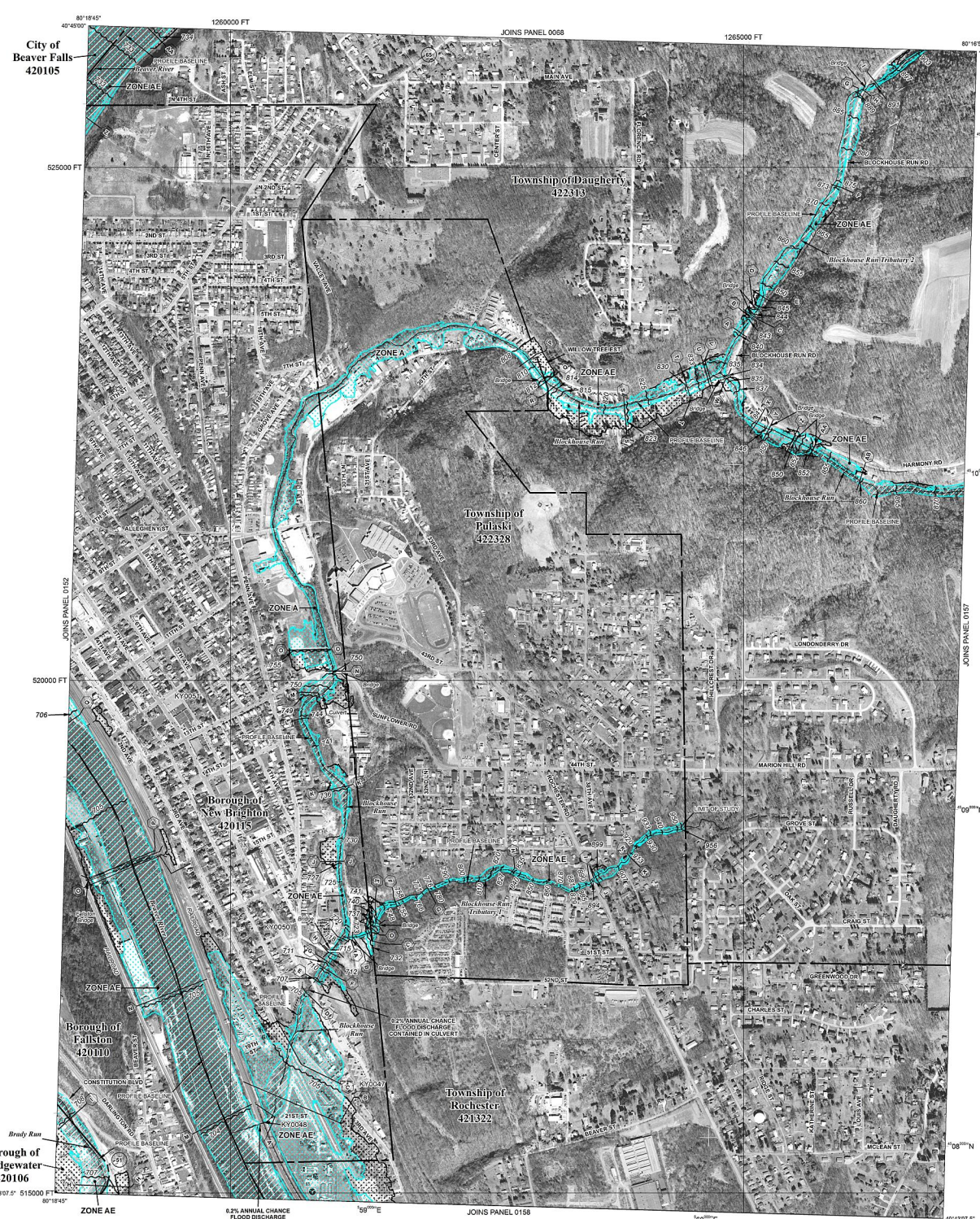
An updated topographic information, this map reflects more detailed and stream channel configurations and floodplain delineations than shown on the previous FIRM for this jurisdiction. As a result, the Flood and Floodway Data tables in the Flood Insurance Study Report (which contain authoritative hydraulic data) may reflect stream channel distances that are different from what is shown on this map. Also, the relationship between stream channels and floodplains may differ from what is shown on previous maps.

Map 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 occur after 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 community 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 is located.

For more information on available products associated with this FIRM visit the Map Repository website at <http://www.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, digital versions of this map. Many of these products can be ordered or purchased 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 Hotline (FMIX) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/businessinfo>.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY A 1% ANNUAL CHANCE FLOOD

The 1% annual 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 (SFHA) subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard Zones A, AE, AH, AO, AR, AV, and VE. The Base Flood Elevation is the water elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.
Base Flood Elevations determined.

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

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

ZONE AD Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); depths determined for areas of actual flooding; wave heights determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently determined to be inadequate. AR indicates that the former flood control system is being replaced by a flood control system that will provide protection from the 1% annual chance flood by a flood protection system under construction; no Base Flood Elevation 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 free of encroachment so that the 1% annual chance flood can be carried without a noticeable increase in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance average depths of less than 1 foot or with drainage areas less than 1 mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplains; 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 Zone A boundary dividing Special Flood Hazard Areas of different Flood Elevations, flood depths or flood velocities
Limit of Moderate Wave Action
Base Flood Elevation line and value, elevation in feet* (EL 512)
Base Flood Elevation value where uniform within zone; in feet*

* Referenced to the North American Vertical Datum of 1988

Cross section line
Transect line
Culvert, Flume, Penstock or Aqueduct
Road or Railroad bridge
Footbridge
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83, WGS84)
1000-meter Universal Transverse Mercator grid values.
5000-foot grid values; Pennsylvania State Plane coordinate system, South zone (FIPS ZONE 3702), Lambert Conformal projection.
Bench mark (see explanation in notes to Users section of FIRM panel)
River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP
August 17, 2015

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

For community map revision history prior to countywide 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 1-800-638-6630.

MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NFIP

PANEL 0156D

FIRM
FLOOD INSURANCE RATE MAP

BEAVER COUNTY, PENNSYLVANIA (ALL JURISDICTIONS)

PANEL 156 OF 375
(SEE MAP INDEX FOR FIRM PANEL LISTING)

CONTAINS:

COMMUNITY	NUMBER	PANEL
BEAVER FALLS, CITY OF	420105	0156
BRIDGEWATER, BOROUGH OF	420106	0156
DAUGHERTY, TOWNSHIP OF	422313	0156
FALLSTON, BOROUGH OF	420110	0156
NEW BRIGHTON, BOROUGH OF	420115	0156
PULASKI, TOWNSHIP OF	422328	0156
ROCHESTER, TOWNSHIP OF	421222	0156

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance application subject community.

MAP NUMBER 42007C

EFFECTIVE AUGUST 17, 2015

Federal Emergency Management Agency

NOTES TO USERS

is for use in administering the National Flood Insurance Program. It is necessary to identify all areas subject to flooding, particularly from local sources of small size. The community map repository should be updated for possible updated or additional flood hazard information.

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

Base Flood Elevations shown on this map apply only to landward of the 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 Elevations tables in the Flood Insurance Study report for this jurisdiction. These elevations are shown in the Summary of Stillwater Elevations tables should be used for flood and/or floodplain management purposes when they are higher than elevations shown on this FIRM.

Floodways were computed at cross sections and interpolated at cross sections. The floodways were based on hydraulic considerations and are subject to requirements of the National Flood Insurance Program. Floodway and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

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

The projection used in the preparation of this map was Pennsylvania State Plane North (FIPS ZONE 3702). The horizontal datum was NAD 83 (GRS80). Differences in datum, spheroid, projection or State Plane zones used in the preparation of FIRMs for adjacent jurisdictions may result in slight positional errors in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Elevations on this map are referenced to the North American Vertical Datum. These flood elevations must be compared to structure and ground elevations as referenced to the same vertical datum. For information regarding the datum used in the National Geodetic Survey of 1929 and the American Vertical Datum of 1988, visit the National Geodetic Survey at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

Information Services
NWS12
Geospatial Survey
#5202
64-West Highway
Spring, Maryland 20910-3282
3-3242

For 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 www.ngs.noaa.gov.

Map information shown on this FIRM was originated from PAMAP Program, Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey. The imagery was derived from aerial photography flown at round sample distance in April 2008.

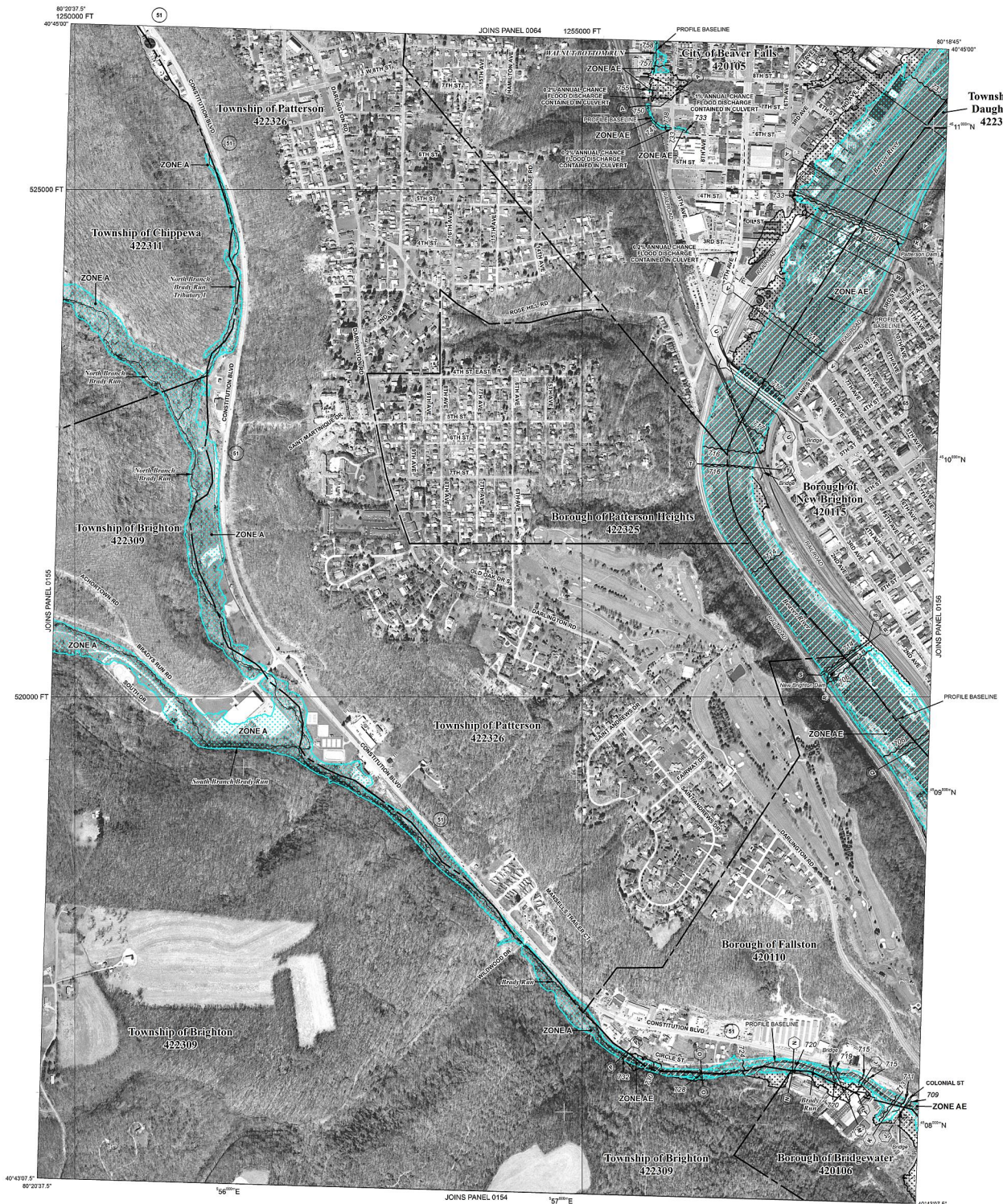
An updated topographic information, from this map reflects more detailed and accurate stream channel configurations and floodplain delineations than shown on the previous FIRM for this jurisdiction. As a result, the Flood and Floodway Data tables in the Flood Insurance Study Report (which contain authoritative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

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LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood) is known as the base flood. It is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area (SFHA) is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard are designated as follows:

- ZONE A:** No Base Flood Elevations determined.
- ZONE AE:** Base Flood Elevations determined.
- ZONE AH:** Flood depths of 1 to 3 feet (quality areas of ponds); Base Flood Elevations determined.
- ZONE AD:** Flood depths of 1 to 3 feet (quality areas of ponds) on sloping terrain; depths determined.

- ZONE AR:** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. AR indicates that the former flood control system is being provided protection from the 1% annual chance or greater flood. Areas to be protected from 1% annual chance flood by a flood protection system under construction; no Base Flood Elevations determined.
- ZONE A99:** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE V:** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE:** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be free of encroachment so that the 1% annual chance flood can be carried without a noticeable 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 mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- ZONE X:** 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 AND 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 Zone A from Zone AE
- Boundary dividing Special Flood Hazard Areas of different Flood Elevations, flood depths or flood velocities.
- Limit of Moderate Wave Action

- Base Flood Elevation line and value, elevation in feet
- Base Flood Elevation value where uniform within zone; in feet

- * Referenced to the North American Vertical Datum of 1988
- Cross section line
- Transect line
- Culvert, Flume, Penstock or Aqueduct
- Roof or Railroad bridge
- Footbridge

- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83, WGS84)
- 1000-meter Universal Transverse Mercator grid values.

- 5000-foot grid values; Pennsylvania State Plane coordinate system, South zone (FIPS ZONE 3702), Lambert Conformal projection.
- Bench mark (see explanation in notes to Users section of FIS report)
- M1.5
- River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

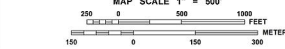
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
August 17, 2015

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

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MAP SCALE 1" = 500'



NFIP
NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE

BEAVER COUNTY, PENNSYLVANIA (ALL JURISDICTIONS)

PANEL 152 OF 375
(SEE MAP INDEX FOR FIRM PANEL LIST)

CONTAINS:

COMMUNITY	NUMBER	PANEL
BEAVER FALLS CITY OF	420105	0152
BRIDGEVIEW BOROUGH OF	420106	0152
BRIGHTON TOWNSHIP OF	422309	0152
CHIPPewa TOWNSHIP OF	422311	0152
DAUGHTERY TOWNSHIP OF	422313	0152
FALLSTON BOROUGH OF	420110	0152
NEW BRIGHTON BOROUGH OF	420115	0152
PATTERSON HEIGHTS BOROUGH OF	422625	0152
PATTERSON TOWNSHIP OF	422326	0152

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

MAP NUMBER 420070

EFFECTIVE DATE AUGUST 17, 2015

Federal Emergency Management Agency