



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Stamford Fairfield County Connecticut	NO PROJECT	BASE MAP CHANGES FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 090015		
IDENTIFIER	Rippowam River (Lower Reach) Re-Opened	APPROXIMATE LATITUDE AND LONGITUDE: 41.053, -73.546 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 09001C0516G DATE: July 8, 2013		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: October 16, 2013 PROFILE: 321P FLOODWAY DATA TABLE: 11 SUMMARY OF DISCHARGES TABLE: 5	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCE AND REVISED REACH

Rippowam River (Lower Reach) - from just upstream of Pulaski Street to just upstream of West North Street

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Rippowam River (Lower Reach)	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES
	BFEs*	BFEs	NONE	YES
	Floodway	Floodway	YES	YES
	No Floodway	Floodway	YES	NONE

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panel revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/national-flood-insurance-program>.

Patrick "Rick" F. Sacbbit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic analysis. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/national-flood-insurance-program>.

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PATRICK RICK F. SABOUR, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Dean Savramis
Director, Mitigation Division
Federal Emergency Management Agency, Region I
99 High Street, Sixth Floor
Boston, MA 02110
(617) 832-4761

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/national-flood-insurance-program>.

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Patrick "Rick" F. Sacbbit, P.E., Branch Chief
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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below, and through FEMA's Flood Hazard Mapping website at https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp

LOCAL NEWSPAPER

Name: *The Stamford Advocate*

Dates: January 17, 2018 and January 24, 2018

Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/national-flood-insurance-program>.

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Patrick "Rick" F. Sacbbit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration

TABLE 5 - SUMMARY OF DISCHARGES - continued

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq. miles)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>10- PERCENT- ANNUAL- CHANCE</u>	<u>2- PERCENT- ANNUAL- CHANCE</u>	<u>1- PERCENT- ANNUAL- CHANCE</u>	<u>0.2- PERCENT- ANNUAL- CHANCE</u>
POPLAR PLAINS BROOK					
At confluence with Saugatuck River (Lower Reach)	0.94	145	195	245	480
PUMPKIN GROUND BROOK					
At confluence with Long Brook	6.12	1,165	1,640	1,895	2,875
At Beaver Dam Lake	1.15	935	1,330	1,550	2,290
PUTNAM PARK BROOK					
Upstream of confluence of Wolf Pit Brook	0.93	130	175	220	320
RIDGEFIELD BROOK					
At State Route 35	2.60	125	185	235	410
RIPPOWAM RIVER (LOWER REACH)					
At the mouth	37.5	2,240	3,680	4,426	6,209
At the Stillwater Pond	33.4	2,670	5,350	6,820	8,580
Downstream of confluence of Haviland Brook	28.7	2,400	4,800	6,140	7,710
Upstream of confluence of Haviland Brook	24.6	2,160	4,320	5,500	6,920
RIPPOWAM RIVER (UPPER REACH)					
At New Canaan- Stamford corporate limits	34.85	1,760	3,170	3,910	7,060
Upstream of confluence of Laurel Brook	5.15	720	1,240	1,550	2,700
Upstream of Lockwood Pond	4.33	610	1,040	1,300	2,270
At Siscowit Reservoir	3.46	480	830	1,040	1,810

↑
REVISED
DATA

**REVISED TO
REFLECT LOMR
EFFECTIVE: May 24, 2018**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Rippowam River (Lower Reach)								
A	735	132	668	6.2	*	3.7 ²	3.9	0.2
B	1,790	118	853	5.2	*	7.1 ²	7.1	0.0
C	2,592	91	735	6.0	*	8.5 ²	8.5	0.0
D	3,518	124	1,131	4.0	11.6	11.6	11.7	0.1
E	3,844	93	691	6.4	12.6	12.6	12.7	0.1
F	4,205	111	682	6.5	13.2	13.2	13.2	0.0
G	4,923	143	570	7.8	14.6	14.6	14.7	0.1
H	5,386	131	1,076	4.1	18.1	18.1	18.2	0.1
I	6,535	190	1,208	3.7	20.7	20.7	21.4	0.7
J	6,720	103	1,145	6.5	27.1	27.1	27.7	0.6
K	7,600	118	1,455	5.1	28.4	28.4	29.0	0.6
L	8,300	281	2,974	3.3	29.2	29.2	29.9	0.7
M	8,800	109	1,309	5.7	29.2	29.2	29.9	0.7
N	9,850	109	1,069	7.3	30.6	30.6	31.1	0.5
O	10,300	131	1,289	6.8	31.4	31.4	32.1	0.7
P	12,200	149	1,394	5.1	34.3	34.3	34.6	0.3
Q	13,000	121	1,059	7.6	37.2	37.2	37.6	0.4
R	13,400	173	1,774	4.4	38.2	38.2	39.1	0.9
S	13,595	95	1,153	8.7	42.9	42.9	43.2	0.3
T	15,100	100	919	8.0	45.2	45.2	45.2	0.0
U	16,100	161	1,456	5.1	47.5	47.5	47.8	0.3
V	18,100	300	1,596	4.3	52.3	52.3	53.1	0.8
W	20,140	119	856	8.0	60.4	60.4	60.9	0.5
X	20,630	115	909	7.5	62.1	62.1	62.8	0.7
Y	21,170	213	1,297	5.3	68.3	68.3	68.3	0.0
Z	22,400	318	2,057	3.3	69.4	69.4	69.7	0.3

↑
REVISED
DATA

¹Feet above confluence with Long Island Sound

²Elevation computed without consideration of backwater effects from Long Island Sound

*Controlled by coastal flooding - see Flood Insurance Rate Map for regulatory base flood elevation

← REVISED
DATA

TABLE 11

FEDERAL EMERGENCY MANAGEMENT AGENCY

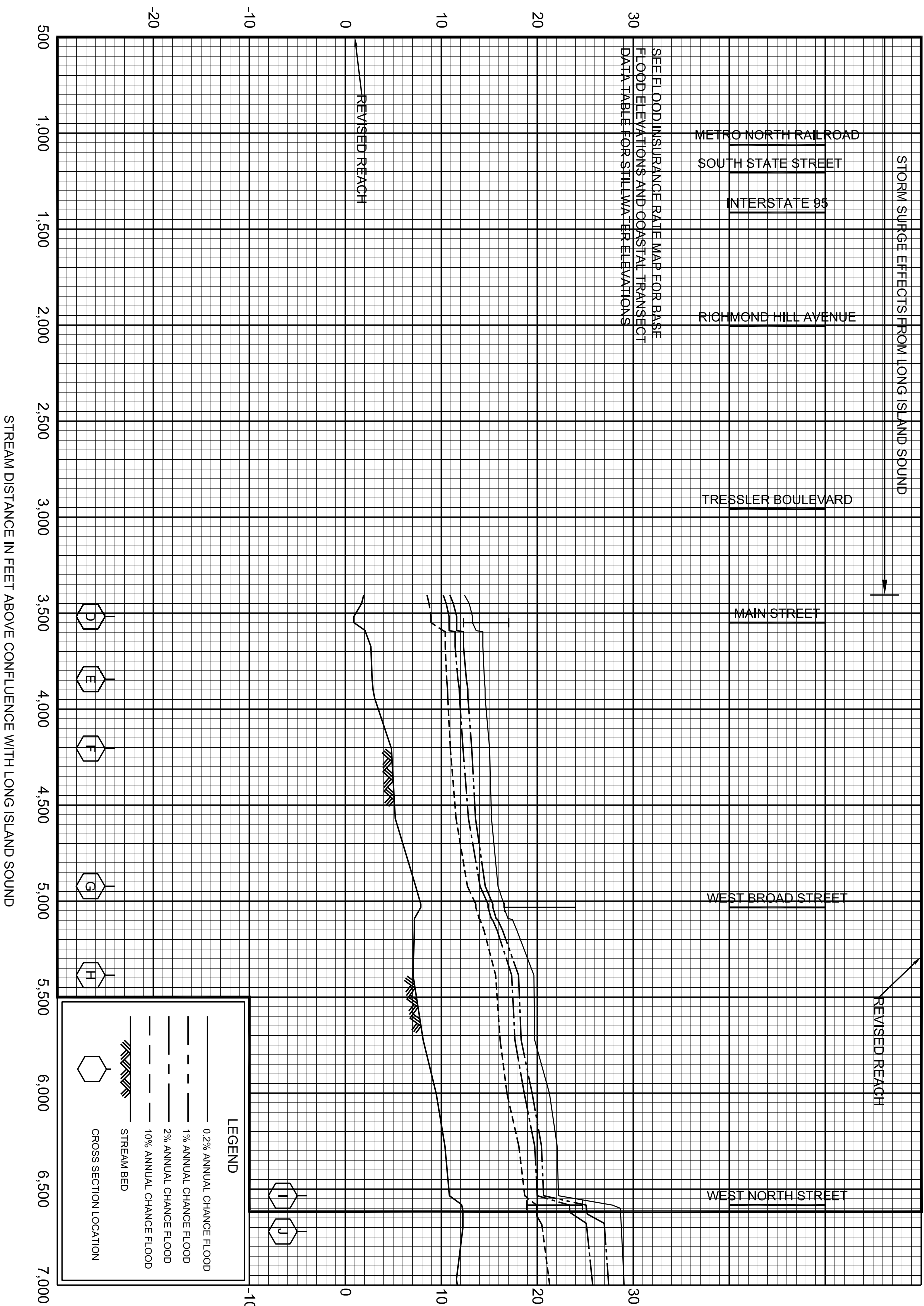
FAIRFIELD COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

REVISED TO
REFLECT LOMR
EFFECTIVE: May 24, 2018

RIPPOWAM RIVER (LOWER REACH)

ELEVATION IN FEET (NAVD 88)

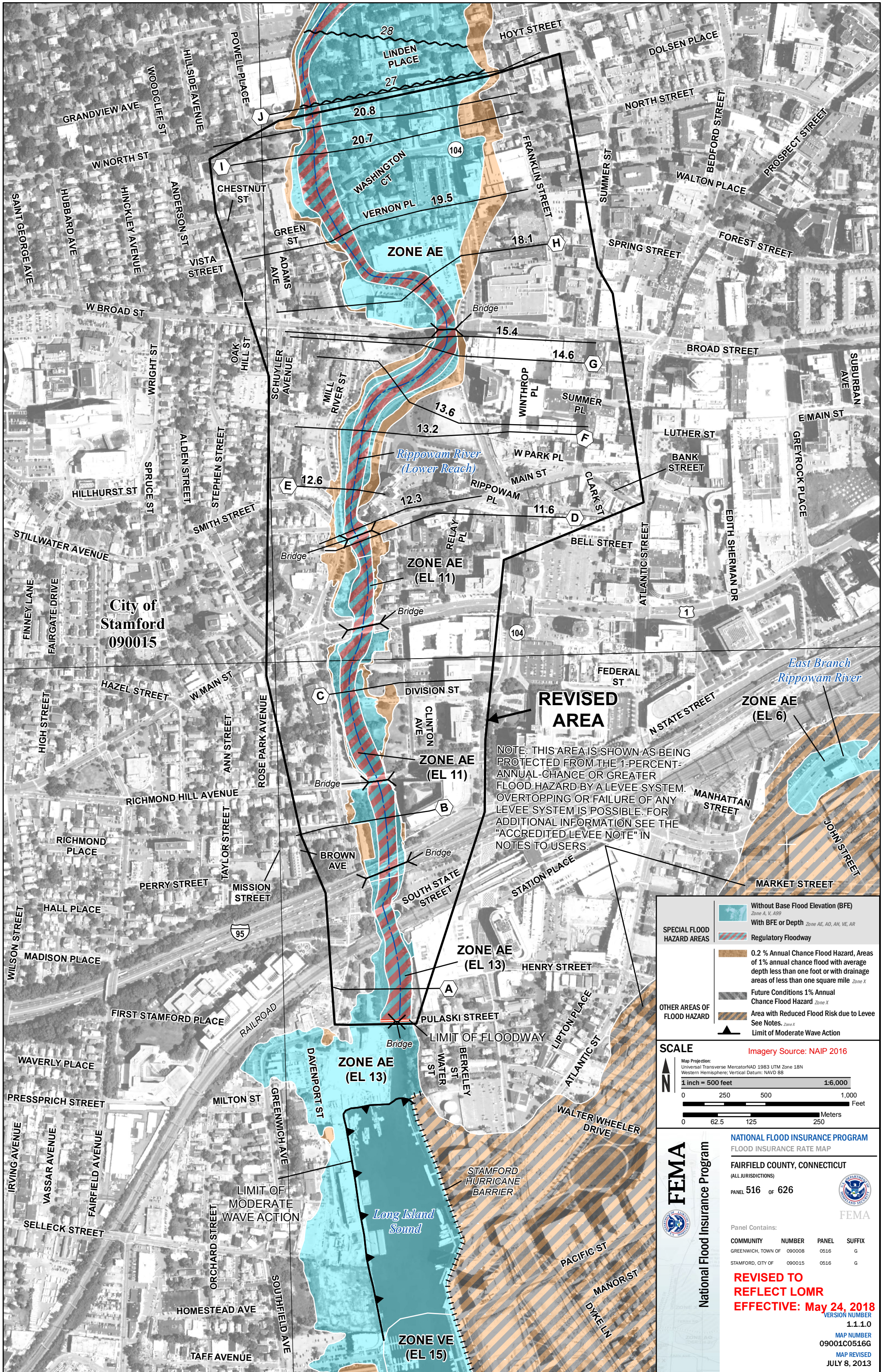


REVISED TO REFLECT LOMR EFFECTIVE: May 24, 2018

FLOOD PROFILES

RIPPOWAM RIVER (LOWER REACH)

FEDERAL EMERGENCY MANAGEMENT AGENCY
FAIRFIELD COUNTY, CT
 (ALL JURISDICTIONS)



City of
Stamford
090015

REVISED AREA

NOTE: THIS AREA IS SHOWN AS BEING PROTECTED FROM THE 1-PERCENT-ANNUAL-CHANCE OR GREATER FLOOD HAZARD BY A LEVEE SYSTEM. OVERTOPPING OR FAILURE OF ANY LEVEE SYSTEM IS POSSIBLE. FOR ADDITIONAL INFORMATION SEE THE "ACCREDITED LEVEE NOTE" IN NOTES TO USERS.

- SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee See Notes. Zone X
 - Limit of Moderate Wave Action

SCALE Imagery Source: NAIP 2016

Map Projection: Universal Transverse Mercator/NAD 1983 UTM Zone 18N
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 62.5 125 250 Meters

FEMA National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

FAIRFIELD COUNTY, CONNECTICUT
(ALL JURISDICTIONS)

PANEL 516 OF 626

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
GREENWICH, TOWN OF	090008	0516	G
STAMFORD, CITY OF	090015	0516	G

REVISED TO REFLECT LOMR
EFFECTIVE: May 24, 2018

VERSION NUMBER 1.1.1.0
MAP NUMBER 09001C0516G
MAP REVISED JULY 8, 2013