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> 37°41′15\* 77°41′15″

77°41'15"

37°45'00\*



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77°41′15″

37°41'15″



	LEGEND
	SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1 % ANNUAL CHANCE FLOOD EVENT
The 1% ann that has a 1	ual chance flood (100-year flood), also known as the base flood, is the flood % chance of being equaled or exceeded in any given year. The Special
Flood Hazard of Special Flo Flood Elevatio	Area is the area subject to flooding by the 1% annual chance flood. Areas od Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base is the water surface elevation of the 1% annual chance flood.
ZONE A	No base flood elevations determined.
ZONE AE	Base flood elevations determined.
ZONE AO	elevations determined. Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain);
	average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood event.
ZONE A99	Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; 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); base flood elevations determined.
$\langle // \rangle$	FLOODWAY AREAS IN ZONE AE
The floodway	is the channel of a stream plus any adjacent floodplain areas that must be
substantial inc	reases 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.
	VIHER AREAS
ZONE X	Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.
	COASTAL BADDIED DESCUIDCES SVSTEM (CDDS) ADEAS
	COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
	OTHERWISE PROTECTED AREAS (OPAs)
CBRS areas ar	d OPAs are normally located within or adjacent to Special Flood Hazard Areas.
	Floodplain boundary Floodway boundary
	Zone D boundary
	BRS and OPA boundary Boundary dividing Special Flood Hazard Areas of different
	Base Flood Elevations, flood depths or velocities.
(FI 987	Base Flood Elevation value where uniform within zone:
*Referenced t	elevation in feet*
A	
23	
97°07′30″, 3	2°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4276	000M 1000-meter Universal Transverse Mercator grid values, zone 18
6000	JU FI 5000-foot grid ticks
DX551(	Bench mark (see explanation in Notes to Users section of this FIRM panel).
● M1.	5 River Mile
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To determine agent or call the	if flood insurance is available in this community, contact your insurance is National Flood Insurance Program at (800) 638-6620.
	MAP SCALE 1" = 1000'
	500 0 1000 2000 FEET
	METERS           300         0         300         600
	FIRM
	FI OOD INSURANCE RATE MAP
	PANEL 20 OF 300
	(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
	CONTAINS:
	HENRICO COUNTY, UNINCORPORATED AREAS 510077 0020 C
	Notice to User: The Man Norman shour below should be used
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	51087C0020C
	EFFECTIVE DATE:
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		LEGEND
	SPECIAL FL BY THE 1%	OOD HAZARD AREAS SUBJECT TO INUNDATION ANNUAL CHANCE FLOOD EVENT
The 1% annu- that has a 19 Flood Hazard J of Special Floo Flood Elevation	Area is the area od Hazard includ is the water surf	(TUC-year flood), also known as the base flood, is the flood being equaled or exceeded in any given year. The Special subject to flooding by the 1% annual chance flood. Areas e Zones A, AE, AH, AO, AR, A99, V, and VE. The Base ace elevation of the 1% annual chance flood.
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The floodway	is the channel o	of a stream plus any adjacent floodplain areas that must be that the 1% annual chance flood can be carried without
substantial inc	oTHER FLO	ights.
ZONE X	Areas of 0.2% with average	6 annual chance flood; areas of 1% annual chance flood depths of less than 1 foot or with drainage areas less than
[]	1 square mile; flood.	and areas protected by levees from 1% annual chance
ZONE X	Areas determin	AC ed to be outside the 0.2% annual chance floodplain.
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	COASTAL B	ARRIER RESOURCES SYSTEM (CBRS) AREAS
CBRS areas an	OTHERWIS	E PROTECTED AREAS (OPAs) ally located within or adjacent to Special Flood Hazard Areas.
		Floodplain boundary
		Zone D boundary CBRS and OPA boundary
		Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.
513-		Base Flood Elevation line and value; elevation in feet*
(EL 987) *Referenced to	o the North Ameri	Base Flood Elevation value where uniform within zone; elevation in feet* can Vertical Datum of 1988
A	—(A)	Cross Section Line
97°07′30″, 32	2°22′30″	Transect Line Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4276	000M	1000-meter Universal Transverse Mercator grid values, zone 18
DX5510	)×	5000-toot grid ticks Bench mark (see explanation in Notes to Users section of
● M1.	5	this FIRM panel). River Mile
	Refe	MAP REPOSITORY to Repository Listing on Index Map
	EF	FECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
	EFFECTIV	DECEMBER 18, 2007 E DATE(S) OF REVISION(S) TO THIS PANEL
For communit Map History ta	y map revision h ble located in the	nistory prior to countywide mapping, refer to the Community Flood Insurance Study report for this jurisdiction.
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	500	MAP SCALE 1" = 1000' 0 1000 2000 FEET
	300	0 300 600
		PANEL 0040C
		FIRM
		FLOOD INSURANCE RATE MAP
		HENRICO COUNTY, VIRGINIA
		AND INCORPORATED AREAS
		(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
		CONTAINS:
		HENRICO COUNTY, INNICORPORATED ABEAS 510077 0040 C
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		MAP NUMBER
	FAI	
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The **projection** used in the preparation of this map is Universal Tranverse Mercator (UTM) zone 18. The **horizontal datum** is NAD83, GRS1980 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 the 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 www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division National Geodetic Survey, NOAA Silver Spring Metro Center 1315 East-West Highway Silver Spring, Maryland 20910 (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 their website at <u>www.ngs.noaa.gov.</u>

**Base map** information shown on this FIRM was provided in digital format by the Henrico County GIS Department.

**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.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment revising portions of this panel, and digital versions of this PANEL may be available. Contact the **FEMA Map Service Center** at the following phone numbers and Internet address for infomation on all related products available from FEMA;

Phone: 800-358-9616 FAX: 800-358-9620 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/business/nfip/



		LEGEND
	SPECIAL FL BY THE 1 %	OOD HAZARD AREAS SUBJECT TO INUNDATION
The 1% ann that has a 1	ual chance flood	I (100-year flood), also known as the base flood, is the floor being equaled or exceeded in any given year. The Specia
Flood Hazard of Special Flo	Area is the area od Hazard inclu	a subject to flooding by the 1% annual chance flood. Area de Zones A, AE, AH, AO, AR, A99, V, and VE. The Bas
ZONE A	No base flood e	elevations determined.
ZONE AE	Base flood elev	vations determined.
ZONE AN	Flood depths elevations dete	of 1 to 3 feet (usually areas of ponding); base floor ermined.
ZONE AU	average depths also determine	hs determined. For areas of alluvial fan flooding, velocitie ad.
ZONE AR	Area of spec chance flood	sial flood hazard formerly protected from the 1% annua event by a flood control system that was subsequently
	decertified. Z being restored greater flood e	one AR indicates that the former flood control system i d to provide protection from the 1% annual chance of event.
ZONE A99	Area to be p	rotected from 1% annual chance flood event by a Federa
	flood protecti determined.	ion system under construction; no base flood elevation
ZONE V	Coastal flood elevations dete	zone with velocity hazard (wave action); no base floo ermined.
ZONE VE	Coastal flood determined.	zone with velocity hazard (wave action); base flood elevation
[]]]	FLOODWA	Y AREAS IN ZONE AE
The floodway kept free of a	is the channel encroachment se	of a stream plus any adjacent floodplain areas that must b o that the 1% annual chance flood can be carried withou
substantial inc	reases in flood he	eights.
20NE X		JUD AREAS
ZONEX	with average 1 square mile	% annual chance flood; areas of 1% annual chance floo depths of less than 1 foot or with drainage areas less tha a; and areas protected by levees from 1% annual chanc
	flood.	
	OTHER AR	
ZONE X ZONE D	Areas determine Areas in which	ned to be outside the 0.2% annual chance floodplain. n flood hazards are undetermined, but possible.
	0040741	
	COASTAL	BARRIER RESOURCES SYSTEM (CBRS) AREAS
	OTHERWIS	E PROTECTED AREAS (OPAs)
CBRS areas an	nd OPAs are norm	nally located within or adjacent to Special Flood Hazard Areas.
		Floodplain boundary Floodway boundary
dantarunno et en turuntarugeta		Zone D boundary
••••••	•••••	CBRS and OPA boundary
		Boundary dividing Special Flood Hazard Areas of differen Base Flood Elevations, flood depths or velocities.
~~~~513^	~~~~~~	Base Flood Elevation line and value; elevation in feet*
(EL 987)	)	Base Flood Elevation value where uniform within zone elevation in feet*
*Referenced to	the North Amer	rican Vertical Datum of 1988 Cross Section Line
(h) (23)	(23)	Transect Line
97°07′30″, 3	02°22′30″	Geographic coordinates referenced to the North Americal Datum of 1983 (NAD 83)
4276	5000M	1000-meter Universal Transverse Mercator grid values, zone 18
6000	00 FT	5000-foot grid ticks
DX5510	o×	Bench mark (see explanation in Notes to Users section of this FIRM name)
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EFFECTIVE DATE: DECEMBER 18, 2007

PANEL SUFFIX

MAP NUMBER 51087C0065C

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Federal Emergency Management Agency

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	SPECIAL FLOO	DD HAZARD AREAS SUBJECT TO INUNDATION
The 1% annu that has a 19 Flood Hazard / of Special Flood Flood Elevation	al chance flood (10 % chance of beir Area is the area su od Hazard include 2 is the water surface	D0-year flood), also known as the base flood, is the flood ag equaled or exceeded in any given year. The Special bject to flooding by the 1% annual chance flood. Areas Zones A, AE, AH, AO, AR, A99, V, and VE. The Base elevation of the 1% annual chance flood.
ZONE A	No base flood elev	ations determined.
ZONE AE ZONE AH	Base flood elevation Flood depths of	ons determined. 1 to 3 feet (usually areas of ponding); base flood
ZONE AO	elevations determi	ned. 1 to 3 feet (usually sheet flow on sloping terrain); http://www.sheet.com/sloping/terrain);
ZONE AR	also determined.	flood bazard formerly protected from the 1% appual
	chance flood even decertified. Zone being restored to greater flood even	AR indicates that the former flood control system is o provide protection from the 1% annual chance or t.
ZONE A99	Area to be prote flood protection determined.	cted from 1% annual chance flood event by a Federal system under construction; no base flood elevations
ZONE V	Coastal flood zo elevations determi	ne with velocity hazard (wave action); no base flood ned.
ZONE VE	Coastal flood zone determined.	e with velocity hazard (wave action); base flood elevations
///	FLOODWAY A	REAS IN ZONE AE
The floodway kept free of e substantial incr	is the channel of a ncroachment so th eases in flood beight	a stream plus any adjacent floodplain areas that must be lat the 1% annual chance flood can be carried without ts
	OTHER FLOOD	) AREAS
ZONE X	Areas of 0.2%	annual chance flood; areas of 1% annual chance flood
	1 square mile; a flood.	nd areas protected by levees from 1% annual chance
	OTHER AREAS	8
ZONE X ZONE D	Areas determined Areas in which floo	to be outside the 0.2% annual chance floodplain. od hazards are undetermined, but possible.
	COASTAL BAF	RRIER RESOURCES SYSTEM (CBRS) AREAS
	OTHERWISE P	ROTECTED AREAS (OPAs)
CBRS areas and	OPAs are normally	located within or adjacent to Special Flood Hazard Areas.
	Floo	odplain boundary odway boundary
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	Bou	Indary dividing Special Flood Hazard Areas of different
~~~~513~	Bas	e Flood Elevations, flood depths or velocities. e Flood Elevation line and value; elevation in feet*
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		LEGEND
	SPECIAL F BY THE 19	FLOOD HAZARD AREAS SUBJECT TO INUNDATION % ANNUAL CHANCE FLOOD EVENT
The 1% ann that has a 1 Flood Hazard of Special Flo Flood Elevatio	ual chance floo % chance of Area is the are ood Hazard inclu n is the water su	od (100-year flood), also known as the base flood, is the flood of being equaled or exceeded in any given year. The Special rea subject to flooding by the 1% annual chance flood. Areas slude Zones A, AE, AH, AO, AR, A99, V, and VE. The Base surface elevation of the 1% annual chance flood.
ZONE A	No base flood	d elevations determined.
ZONE AH	Flood depths elevations det	hs of 1 to 3 feet (usually areas of ponding); base flood etermined.
ZONE AO	Flood depths average dept also determin	ns of 1 to 3 feet (usually sheet flow on sloping terrain); pths determined. For areas of alluvial fan flooding, velocities ned.
ZONE AR	Area of spe chance flood decertified. Z being restore greater flood	ecial flood hazard formerly protected from the 1% annual of event by a flood control system that was subsequently Zone AR indicates that the former flood control system is red to provide protection from the 1% annual chance of devent.
ZONE A99	Area to be p flood protect determined.	protected from 1% annual chance flood event by a Federal ction system under construction; no base flood elevations
ZONE V	Coastal flood elevations det	od zone with velocity hazard (wave action); no base flood etermined.
	determined.	
The floodway	FLOODWA	AY AKEAS IN ZONE AE el of a stream plus any adjacent floodplain areas that must be
kept free of substantial inc	encroachment s creases in flood h	so that the 1% annual chance flood can be carried without heights.
2011E V	OTHER FLO	LOOD AREAS
	with average 1 square mil flood.	e depths of less than 1 foot or with drainage areas less than le depths of less than 1 foot or with drainage areas less than lile; and areas protected by levees from 1% annual chance
	OTHER AR	REAS
ZONE X ZONE D	Areas determ Areas in whic	nined to be outside the 0.2% annual chance floodplain. ich flood hazards are undetermined, but possible.
	COASTAL	BARRIER RESOURCES SYSTEM (CBRS) AREAS
	OTHERWIS	ISE PROTECTED AREAS (OPAs)
CBRS areas a	nd OPAs are norn	rmally located within or adjacent to Special Flood Hazard Areas.
-	Aydractic anticipations	Floodway boundary Zone D boundary
•••••		CBRS and OPA boundary
E40		<ul> <li>Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.</li> </ul>
(EL 987	)	Base Flood Elevation line and value; elevation in feet* Base Flood Elevation value where uniform within zone;
*Referenced t	to the North Ame	elevation in feet* nerican Vertical Datum of 1988
	(A)	Cross Section Line
<b>23</b>	<b> (23)</b> 32°22′30″	Geographic coordinates referenced to the North American
4276	5000M	1000-meter Universal Transverse Mercator grid values, zone 18
6000	00 FT	5000-foot grid ticks
DX551	•×	Bench mark (see explanation in Notes to Users section of this FIRM panel).
● M1.	.5	
	Refe	fer to Repository Listing on Index Map
	E	EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
	FFFECT	DECEMBER 18, 2007
For community Map History to	able located in th	history prior to countywide mapping, refer to the Community he Flood Insurance Study report for this jurisdiction.
agent or call t	e if flood insura he National Flood	rance is available in this community, contact your insurance of Insurance Program at (800) 638-6620.
	50 <u>0</u>	MAP SCALE 1" = 1000' 0 1000 2000
		PANEL 0105C
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		FLOOD INSURANCE RATE MAP
		HENRICO COUNTY,
		VIRGINIA
	╡╎╎╎╎╎┠┷┤┝┷┤┝┷┤	AND INCORPORATED AREAS
		PANEL 105 OF 300
		(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
		CONTAINS: COMMUNITY NUMBER PANEL SUFFIX
		HENRIGO COUNTY,
		UNINCORPORATED AREAS 510077 0105 C
		Notice to User: The <b>Map Number</b> shown below should be used when placing map orders; the <b>Community Number</b> shown above should be used on insurance applications for the subject community.
		MAP NUMBER
		51087C0105C
		EFFECTIVE DATE: DECEMBER 18, 2007
	A THE A	EFFECTIVE DATE: DECEMBER 18, 2007
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James River And Kanawha Canal

77°33′45″

274000 M

37°30′00″ 77°33′45″

![](_page_14_Picture_21.jpeg)

276000 M

275000 M

277000 M

![](_page_14_Picture_30.jpeg)

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![](_page_15_Figure_18.jpeg)

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![](_page_16_Figure_17.jpeg)

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![](_page_17_Figure_18.jpeg)

77°26′15″

37°33'45″

![](_page_17_Figure_20.jpeg)

		LEGEND
	SPECIAL F BY THE 19	LOOD HAZARD AREAS SUBJECT TO INUNDATION 6 ANNUAL CHANCE FLOOD EVENT
The 1% anr that has a 1 Flood Hazard of Special Fl Flood Elevatio <b>ZONE A</b>	ual chance floo % chance of Area is the are ood Hazard incl n is the water su No base flood	d (100-year flood), also known as the base flood, is the flood being equaled or exceeded in any given year. The Special a subject to flooding by the 1% annual chance flood. Areas ude Zones A, AE, AH, AO, AR, A99, V, and VE. The Base inface elevation of the 1% annual chance flood.
ZONE AE	Base flood ele	evations determined.
ZONE AO	elevations de Flood depth average dep also determin	termined. s of 1 to 3 feet (usually sheet flow on sloping terrain); ths determined. For areas of alluvial fan flooding, velocities ed.
ZONE AR	Area of spe chance floor decertified. being restor greater flood	icial flood hazard formerly protected from the 1% annual d event by a flood control system that was subsequently Zone AR indicates that the former flood control system is ed to provide protection from the 1% annual chance or event.
ZONE A99	Area to be flood protec determined.	protected from 1% annual chance flood event by a Federal tion system under construction; no base flood elevations
ZONE V	Coastal floo elevations de	d zone with velocity hazard (wave action); no base flood termined.
	Coastal flood determined.	zone with velocity hazard (wave action); base flood elevations
The floodway kept free of substantial inc	FLOODWA is the channe encroachment s creases in flood l	Y AREAS IN ZONE AE of a stream plus any adjacent floodplain areas that must be so that the 1% annual chance flood can be carried without neights.
	OTHER FL	OOD AREAS
ZONE X	Areas of 0.2 with average 1 square mi flood.	% annual chance flood; areas of 1% annual chance flood depths of less than 1 foot or with drainage areas less than e; and areas protected by levees from 1% annual chance
	OTHER AF	EAS
ZONE X ZONE D	Areas determ Areas in whic	ined to be outside the 0.2% annual chance floodplain. h flood hazards are undetermined, but possible.
	COASTAL	BARRIER RESOURCES SYSTEM (CBRS) AREAS
CBRS areas a	OTHERWI nd OPAs are nor	SE PROTECTED AREAS (OPAs) mally located within or adjacent to Special Flood Hazard Areas.
		Floodplain boundary Floodway boundary
•••••	***	Zone D boundary CBRS and OPA boundary
		Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.
۰۰۰۰۰5 <i>13</i> (EL 987	)	Base Flood Elevation line and value; elevation in feet* Base Flood Elevation value where uniform within zone;
*Referenced t	to the North Ame	elevation in feet* arican Vartical Datum of 1988
(A) (23)	{A> 	Cross Section Line Transect Line
97°07′30″, 3	2°22′30″	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4270 6000	5000M 00 FT	1000-meter Universal Transverse Mercator grid values, zone 18 5000-foot grid ticks
DX551	o×	Bench mark (see explanation in Notes to Users section of this FIRM panel).
● M1.	.5	River Mile
	Ref	MAP REPOSITORY er to Repository Listing on Index Map
	I	FFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
	EFFECT	VE DATE(S) OF REVISION(S) TO THIS PANEL
For communi Map History t	ty map revision able located in th	history prior to countywide mapping, refer to the Community re Flood Insurance Study report for this jurisdiction.
To determine agent or call t	if flood insur he National Floor	ance is available in this community, contact your insurance I Insurance Program at (800) 638-6620.
	500	MAP SCALE 1" = 1000' 0 1000 2000 FEFT
	300	0 300 600
		PANEL 0145C
		FIRM
		FLOOD INSURANCE RATE MAP
		HENRICO COUNTY,
		VIRGINIA
		AND INCORPORATED AREAS
		PANEL 145 OF 300
		(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
		COMMUNITY NUMBER PANEL SUFFIX
		HENRICO COUNTY, UNINCORPORATED AREAS 510077 0145 C
		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 subject community.
		WIAP NUMBER 51087C0145C
		EFFECTIVE DATE: DECEMBER 18, 2007

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![](_page_19_Figure_18.jpeg)

		LEGEND
	SPECIAL I BY THE 1	FLOOD HAZARD AREAS SUBJECT TO INUNDATION % ANNUAL CHANCE FLOOD EVENT
The 1% ann that has a 1 Flood Hazard of Special Flo Flood Elevatio	wal chance floo % chance o Area is the ar bod Hazard inc n is the water s	od (100-year flood), also known as the base flood, is the flood f being equaled or exceeded in any given year. The Special ea subject to flooding by the 1% annual chance flood. Areas lude Zones A, AE, AH, AO, AR, A99, V, and VE. The Base urface elevation of the 1% annual chance flood.
ZONE A ZONE AE	No base floo Base flood el	d elevations determined. evations determined.
ZONE AH ZONE AO	Flood depth elevations de Flood depth	ns of 1 to 3 feet (usually areas of ponding); base flood etermined. Is of 1 to 3 feet (usually sheet flow on sloping terrain);
ZONE AR	average dep also determin Area of spu chance floo decertified.	oths determined. For areas of alluvial fan flooding, velocities ned. ecial flood hazard formerly protected from the 1% annual d event by a flood control system that was subsequently Zone AR indicates that the former flood control system is
ZONE A99	being restor greater flood Area to be	red to provide protection from the 1% annual chance or event. protected from 1% annual chance flood event by a Federal
ZONE V	flood protec determined. Coastal floo	otion system under construction; no base flood elevations
ZONE VE	elevations de Coastal flood determined.	etermined. d zone with velocity hazard (wave action); base flood elevations
	FLOODW	AY AREAS IN ZONE AE
The floodway kept free of substantial inc	is the channe encroachment creases in flood	el of a stream plus any adjacent floodplain areas that must be so that the 1% annual chance flood can be carried without heights.
ZONE X	OTHER FL	OOD AREAS
	with average 1 square m flood.	e depths of less than 1 foot or with drainage areas less than ile; and areas protected by levees from 1% annual chance
	OTHER A	REAS
ZONE X	Areas detern Areas in whi	nined to be outside the 0.2% annual chance floodplain. ch flood hazards are undetermined, but possible.
	COASTAL	BARRIER RESOURCES SYSTEM (CBRS) AREAS
CBRS areas ar	OTHERWI nd OPAs are nor	SE PROTECTED AREAS (OPAs) mally located within or adjacent to Special Flood Hazard Areas.
		Floodplain boundary Floodway boundary
•••••		Zone D boundary CBRS and OPA boundary
	•	<ul> <li>Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.</li> </ul>
(EL 987	)	Base Flood Elevation line and value; elevation in feet* Base Flood Elevation value where uniform within zone;
*Referenced t	o the North Am	erican Vertical Datum of 1988
(23)	<b>2</b> 3	Transect Line
97°07′30″, 3 4276	5000M	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) 1000-meter Universal Transverse Mercator grid values, zone 18
6000	00 FT	5000-foot grid ticks
DX551(	0 <sub>×</sub> 5	Bench mark (see explanation in Notes to Users section of this FIRM panel). River Mile
•	Rei	MAP REPOSITORY fer to Repository Listing on Index Map
		EFFECTIVE DATE OF COUNTYWIDE
	EFFECT	DECEMBER 18, 2007
_		
For communit Map History ta To determine agent or call th	ry map revision able located in the if flood insur ne National Floo	history prior to countywide mapping, refer to the Community he Flood Insurance Study report for this jurisdiction. ance is available in this community, contact your insurance d Insurance Program at (800) 638-6620.
	500	0 1000 2000 FEET
	300	0 300 600
		PANEL 0165C
		FIGOD INSUBANCE BATE MAD
		HENRICO COUNTY,
		VIRGINIA
	╡╎╎╎╏╹╍╸┶┷┙ ╎╎╎┠╴┠╸╵┺╴	AND INCORPORATED AREAS
		PANEL 165 OF 300
		(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
		(SEE MAP INDEX FOR FIRM PANEL LAYOUT)  CONTAINS: COMMUNITY NUMBER PANEL SUFFIX HENRICO COUNTY,
		(SEE MAP INDEX FOR FIRM PANEL LAYOUT)         _CONTAINS:_         _COMMUNITY       NUMBER PANEL SUFFIX         HENRICO COUNTY, UNINCORPORATED AREAS       510077       0165       C
		(SEE MAP INDEX FOR FIRM PANEL LAYOUT) .CONTAINS: COMMUNITY NUMBER PANEL SUFFIX HENRICO COUNTY, UNINCORPORATED AREAS 510077 0165 C
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		(SEE MAP INDEX FOR FIRM PANEL LAYOUT)         .CONTAINS:         COMMUNITY       NUMBER PANEL SUFFIX         HENRICO COUNTY, UNINCORPORATED AREAS       510077       0165       C         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 subject community.
· · ·		(SEE MAP INDEX FOR FIRM PANEL LAYOUT)         .CONTAINS:         COMMUNITY       NUMBER PANEL SUFFIX         HENRICO COUNITY, UNINCORPORATED AREAS       510077       0165       C         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 subject community.       MAP NUMBER SIDR 7C.0165.C
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![](_page_20_Figure_18.jpeg)

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![](_page_21_Figure_18.jpeg)

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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 may reflect stream channel distances that differ from what is shown on this map.

![](_page_22_Picture_18.jpeg)

77°26′15″

37°30'00"

![](_page_22_Picture_22.jpeg)

![](_page_22_Figure_24.jpeg)

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77°26′15″

37°26'15″

IS PANEL O

![](_page_23_Picture_21.jpeg)

		LEGEND
	SPECIAL F BY THE 19	LOOD HAZARD AREAS SUBJECT TO INUNDATION % ANNUAL CHANCE FLOOD EVENT
The 1% annu that has a 1 Flood Hazard of Special Flo Flood Elevation	ual chance floo % chance of Area is the are od Hazard inclu n is the water su	ed (100-year flood), also known as the base flood, is the flood being equaled or exceeded in any given year. The Special ea subject to flooding by the 1% annual chance flood. Areas ude Zones A, AE, AH, AO, AR, A99, V, and VE. The Base inface elevation of the 1% annual chance flood.
ZONE A ZONE AE	No base flood Base flood ele	l elevations determined. evations determined.
ZONE AH	Flood depthe elevations de	s of 1 to 3 feet (usually areas of ponding); base flood termined.
ZONE AO ZONE AR	Flood depth average dep also determin Area of spe	s of 1 to 3 feet (usually sheet flow on sloping terrain); ths determined. For areas of alluvial fan flooding, velocities red. pcial flood hazard formerly protected from the 1% annual
70115 400	chance flood decertified. being restor greater flood	d event by a flood control system that was subsequently Zone AR indicates that the former flood control system is ed to provide protection from the 1% annual chance or event.
ZONE A99	Area to be flood protec determined.	protected from 1% annual chance flood event by a Federal tion system under construction; no base flood elevations
ZONE VE	Coastal floo elevations de	d zone with velocity hazard (wave action); no base flood termined.
	determined.	
The floodway	is the channel	I of a stream plus any adjacent floodplain areas that must be
substantial inc	oTHER FL	OOD AREAS
ZONE X	Areas of 0.2 with average	2% annual chance flood; areas of 1% annual chance flood a depths of less than 1 foot or with drainage areas less than
r1	1 square mil flood.	le; and areas protected by levees from 1% annual chance
	OTHER AF	REAS interstiction in the content of
ZONE D	Areas in whic	ch flood hazards are undetermined, but possible.
	COASTAL	BARRIER RESOURCES SYSTEM (CBRS) AREAS
CBRS areas an	OTHERWIS	SE PROTECTED AREAS (OPAs)
		Floodplain boundary
antanitatia arctanitanitatiana a		Floodway boundary Zone D boundary
••••••	·····	CBRS and OPA boundary Boundary dividing Special Flood Hazard Areas of different
~~~~513~	~~~~~	Base Flood Elevation line and value; elevation in feet*
(EL 987)		Base Flood Elevation value where uniform within zone; elevation in feet*
A		Cross Section Line
<b>23</b>	2°22′30″	Transect Line Geographic coordinates referenced to the North American
4276	000M	1000-meter Universal Transverse Mercator grid values, zone 18
60000 DX5510	00 FT	5000-foot grid ticks
• M1.	5×	Bench mark (see explanation in Notes to Users section of this FIRM panel). River Mile
	Ref	MAP REPOSITORY er to Repository Listing on Index Map
	i	EFFECTIVE DATE OF COUNTYWIDE
		DECEMBER 18, 2007
For communit Map History ta To determine agent or call th	y map revision ble located in th if flood insur- e National Flood	history prior to countywide mapping, refer to the Community ne Flood Insurance Study report for this jurisdiction. ance is available in this community, contact your insurance d Insurance Program at (800) 638-6620. MAP SCALE 1" = 1000'
		0 1000 2000 FEET METERS
	300	0 300 600
		PANEL 0220C
		<section-header><section-header><section-header></section-header></section-header></section-header>
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![](_page_24_Figure_18.jpeg)

		LEGEND
	SPECIAL FLOO BY THE 1% A	OD HAZARD AREAS SUBJECT TO INUNDATION NNUAL CHANCE FLOOD EVENT
The 1% and that has a 1 Flood Hazard	ual chance flood (1) % chance of bein Area is the area su	00-year flood), also known as the base flood, is the flood ng equaled or exceeded in any given year. The Special biect to flooding by the 1% appual chance flood Areas
of Special Flood Elevation	od Hazard include in is the water surface	Zones A, AE, AH, AO, AR, A99, V, and VE. The Base e elevation of the 1% annual chance flood.
ZONE A	No base flood elev	vations determined.
ZONE AH	Flood depths of	f 1 to 3 feet (usually areas of ponding); base flood
ZONE AO	Flood depths of	ined. 1 to 3 feet (usually sheet flow on sloping terrain); determined For areas of alluvial fap flooding, velocities
ZONE AD	also determined.	
ZONE AN	chance flood ev decertified. Zone being restored t greater flood even	rioco nazard formerly protected from the 1% annual rent by a flood control system that was subsequently a AR indicates that the former flood control system is to provide protection from the 1% annual chance or it.
ZONE A99	Area to be prote flood protection determined.	acted from 1% annual chance flood event by a Federal system under construction; no base flood elevations
ZONE V	Coastal flood zo elevations determ	one with velocity hazard (wave action); no base flood ined.
ZONE VE	Coastal flood zon determined.	e with velocity hazard (wave action); base flood elevations
$\overline{}$	FLOODWAY A	AREAS IN ZONE AE
The floodway	is the channel of	a stream plus any adjacent floodplain areas that must be
substantial inc	creases in flood heigh	iat the 176 annual chance hood can be carned without its.
	OTHER FLOOD	DAREAS
ZONE X	Areas of 0.2% with average dep 1 square mile: a	annual chance flood; areas of 1% annual chance flood oths of less than 1 foot or with drainage areas less than and areas protected by levees from 1% annual chance
	flood.	
	OTHER AREAS	S
ZONE X ZONE D	Areas determined Areas in which flo	to be outside the 0.2% annual chance floodplain. od hazards are undetermined, but possible.
	COASTAL DAI	
	COA21AL BAI	KRIER RESOURCES SYSTEM (CBRS) AREAS
	OTHERWISE P	PROTECTED AREAS (OPAs)
CBRS areas an	nd OPAs are normally	located within or adjacent to Special Flood Hazard Areas.
	Flo Flo	odplain boundary odway boundary
	Zor	ne D boundary
	Bo	ins and OPA boundary undary dividing Special Flood Hazard Areas of different
	Bas	se Flood Elevations, flood depths or velocities.
/FI 987	N Bas	se Flood Elevation line and value; elevation in leet."
*Referenced t	' ele the North Americar	vation in feet*
A		oss Section Line
23	<u>23</u> Tra	ansect Line
97°07′30″, 3	2°22′30″ Ge Dat	ographic coordinates referenced to the North American turn of 1983 (NAD 83)
4276	;000M 100	00-meter Universal Transverse Mercator grid values, zone 18
DVEEA		00-root grid ticks
DX551	J× Ber this	nch mark (see explanation in Notes to Users section of s FIRM panel).
● <b>M</b> 1.	5 Riv	
	<b>Refer to</b>	Repository Listing on Index Map
	EFFE	CTIVE DATE OF COUNTYWIDE
	FLU	DECEMBER 18, 2007
	EFFECTIVE D	DATE(S) OF REVISION(S) TO THIS PANEL
For communit Map History to	ty map revision histo able located in the Flo	ory prior to countywide mapping, refer to the Community ood Insurance Study report for this jurisdiction.
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		FLOOD INSURANCE RATE MAP
		HENRICO COUNTY,
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	БШ	AND INCORPORATED AREAS
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	G	PANEL 230 OF 300
		(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
		CONTAINS:
		UNINCORPORATED AREAS 510077 0230 C
		Notice to User: The Map Number shown below should be used
		when pleang map orders; the <b>Community Number</b> shown above should be used on insurance applications for the subject community.
		MAP NUMBER
		51087C0230C
		EFFECTIVE DATE:
		DEVEMBER 10, 2007
		Federal Emergency Management Agency

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 Elevation** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data 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 should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

**Coastal Base Flood Elevation (BFEs)** shown on this map apply only landward of 0.0' North American Vertical Datum (NAVD). Users of this FIRM should be aware that coastal flood elevations may also be provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this community. Elevations shown 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 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 in this jurisdiction.

The **projection** used in the preparation of this map is Universal Tranverse Mercator (UTM) zone 18. The **horizontal datum** is NAD83, GRS1980 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 the 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 www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division National Geodetic Survey, NOAA Silver Spring Metro Center 1315 East-West Highway Silver Spring, Maryland 20910 (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 their website at <u>www.ngs.noaa.gov.</u>

**Base map** information shown on this FIRM was provided in digital format by the Henrico County GIS Department.

**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.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment revising portions of this panel, and digital versions of this PANEL may be available. Contact the **FEMA Map Service Center** at the following phone numbers and Internet address for infomation on all related products available from FEMA;

Phone: 800-358-9616 FAX: 800-358-9620

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/business/nfip/

![](_page_25_Figure_18.jpeg)

		LEGEND
	SPECIAL F BY THE 19	LOOD HAZARD AREAS SUBJECT TO INUNDATION % ANNUAL CHANCE FLOOD EVENT
The 1% and that has a 1	nual chance floc 1% chance of Area in the or	od (100-year flood), also known as the base flood, is the flood being equaled or exceeded in any given year. The Special
of Special Flood Elevation	Area is the are ood Hazard incl on is the water su	Ba subject to flooding by the 1% annual chance flood. Areas ude Zones A, AE, AH, AO, AR, A99, V, and VE. The Base urface elevation of the 1% annual chance flood.
ZONE A ZONE AE	No base flood Base flood el	l elevations determined. evations determined.
ZONE AH	Flood depth elevations de	s of 1 to 3 feet (usually areas of ponding); base flood termined.
ZONE AO	Flood depth average dep also determin	s of 1 to 3 feet (usually sheet flow on sloping terrain); ths determined. For areas of alluvial fan flooding, velocities red.
ZONE AR	Area of spe chance flood decertified. being restor greater flood	ecial flood hazard formerly protected from the 1% annual d event by a flood control system that was subsequently Zone AR indicates that the former flood control system is ed to provide protection from the 1% annual chance or event
ZONE A99	Area to be flood protect	protected from 1% annual chance flood event by a Federal tion system under construction: no base flood elevations
ZONE V	determined. Coastal floo	d zone with velocity hazard (wave action); no base flood
ZONE VE	elevations de Coastal flood	termined. I zone with velocity hazard (wave action); base flood elevations
777	FLOODWA	AY AREAS IN ZONE AE
The floodway	is the channe	I of a stream plus any adjacent floodplain areas that must be
substantial ind	creases in flood l	neights.
ZONE X	Areas of 0.2	UUD AREAS
	with average 1 square mi flood.	e depths of less than 1 foot or with drainage areas less than le; and areas protected by levees from 1% annual chance
	OTHER AF	REAS
ZONE X	Areas determ	nined to be outside the 0.2% annual chance floodplain.
		en flood nazards are undetermined, but possible.
	COASTAL	BARRIER RESOURCES SYSTEM (CBRS) AREAS
CBRS areas ar	OTHERWI	SE PROTECTED AREAS (OPAs) mally located within or adjacent to Special Flood Hazard Areas.
	*****	Floodplain boundary
		Floodway boundary Zone D boundary
••••••	*****	CBRS and OPA boundary
		Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.
(EL 987	)	Base Flood Elevation line and value; elevation in feet* Base Flood Elevation value where uniform within zone;
*Referenced t	' to the North Ame	elevation in feet* erican Vertical Datum of 1988
A	—(A)	Cross Section Line
<b>23</b>	<b> (23)</b>	Transect Line Geographic coordinates referenced to the North American
4276	5000M	1000-meter Universal Transverse Mercator grid values, zone 18
6000	00 FT	5000-foot grid ticks
DX551	o×	Bench mark (see explanation in Notes to Users section of this FIRM panel).
• M1.	.5	River Mile
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The **projection** used in the preparation of this map is Universal Tranverse Mercator (UTM) zone 18. The **horizontal datum** is NAD83, GRS1980 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 the 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 www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division National Geodetic Survey, NOAA Silver Spring Metro Center 1315 East-West Highway Silver Spring, Maryland 20910 (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 their website at www.ngs.noaa.gov.

**Base map** information shown on this FIRM was provided in digital format by the Henrico County GIS Department.

**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.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment revising portions of this panel, and digital versions of this PANEL may be available. Contact the **FEMA Map Service Center** at the following phone numbers and Internet address for infomation on all related products available from FEMA;

Phone: 800-358-9616 FAX: 800-358-9620

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/business/nfip/

![](_page_26_Figure_18.jpeg)

The 1%		
The 104	SPECIAL FL BY THE 1%	LOOD HAZARD AREAS SUBJECT TO INUNDATION
that has a 1 Flood Hazard of Special Flo Flood Elevatio	ual chance flood % chance of Area is the area ood Hazard inclu	I (100-year flood), also known as the base flood, is the flood being equaled or exceeded in any given year. The Special a subject to flooding by the 1% annual chance flood. Areas de Zones A, AE, AH, AO, AR, A99, V, and VE. The Base face elevation of the 1% annual chance flood.
ZONE A	No base flood	elevations determined.
ZONE AE	Base flood elev	vations determined.
ZONE AO	Flood depths elevations det Flood depths average depth	of 1 to 3 feet (usually sheet flow on sloping terrain); hs determined. For areas of alluvial fan flooding, velocities
ZONE AR	Area of spec chance flood decertified. Z being restore greater flood e	sial flood hazard formerly protected from the 1% annual event by a flood control system that was subsequently cone AR indicates that the former flood control system is d to provide protection from the 1% annual chance or event.
ZONE A99	Area to be p flood protect determined.	rotected from 1% annual chance flood event by a Federal ion system under construction; no base flood elevations
ZONE V	Coastal flood elevations det	zone with velocity hazard (wave action); no base flood ermined.
ZONE VE	Coastal flood determined.	zone with velocity hazard (wave action); base flood elevations
	FLOODWA	Y AREAS IN ZONE AE
The floodway	is the channel	of a stream plus any adjacent floodplain areas that must be
kept free of substantial inc	encroachment s creases in flood h	o that the 1% annual chance flood can be carried without eights.
	OTHER FLC	DOD AREAS
ZONE X	Areas of 0.2 <sup>4</sup> with average 1 square mile flood.	% annual chance flood; areas of 1% annual chance flood depths of less than 1 foot or with drainage areas less than a; and areas protected by levees from 1% annual chance
	OTHER AR	EAS
ZONE X	Areas determi	ned to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which	n flood hazards are undetermined, but possible.
	COASTAL	BARRIER RESOURCES SYSTEM (CBRS) AREAS
	OTHERWIS	E PROTECTED AREAS (OPAs)
CBRS areas ar	nd OPAs are norm	ally located within or adjacent to Special Flood Hazard Areas. Floodplain boundary
		Floodway boundary Zone D boundary
	*****	CBRS and OPA boundary
		Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.
~~~513-	~~~~~	Base Flood Elevation line and value; elevation in feet*
(EL 987	)	Base Flood Elevation value where uniform within zone;
*Referenced t	o the North Amer	rican Vertical Datum of 1988
A	— (A)	Cross Section Line
(23)	(23)	Transect Line Geographic coordinates referenced to the North American
9/°0/°30 , 3	52°22'30"	Datum of 1983 (NAD 83) 1000-meter Universal Transverse Mercator grid values, zone 18
6000	00 FT	5000-foot grid ticks
DX551(	¢א	Bench mark (see explanation in Notes to Users section of
• M1.	5	this FIRM panel). River Mile
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Spatial Reference System Division National Geodetic Survey, NOAA Silver Spring Metro Center 1315 East-West Highway Silver Spring, Maryland 20910 (301) 713-3242

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![](_page_27_Figure_17.jpeg)

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ZONE A	No base flood e	levations determined.
ZONE AH	Flood depths	of 1 to 3 feet (usually areas of ponding); base flood
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ZONE AR	Area of speci chance flood decertified. Zo being restored	d. al flood hazard formerly protected from the 1% annual event by a flood control system that was subsequently one AR indicates that the former flood control system is to provide protection from the 1% annual chance or
ZONE A99	greater flood ev Area to be pr flood protectio determined.	vent. otected from 1% annual chance flood event by a Federal on system under construction; no base flood elevations
ZONE V	Coastal flood elevations dete	zone with velocity hazard (wave action); no base flood rmined.
ZONE VE	Coastal flood z determined.	one with velocity hazard (wave action); base flood elevations
	FLOODWAY	AREAS IN ZONE AE
The floodway kept free of	is the channel of encroachment so	of a stream plus any adjacent floodplain areas that must be that the 1% annual chance flood can be carried without
	OTHER FLO	OD AREAS
ZONE X	Areas of 0.2%	annual chance flood; areas of 1% annual chance flood
	1 square mile; flood.	and areas protected by levees from 1% annual chance
	OTHER ARE	AS
ZONE X	Areas determin	ed to be outside the 0.2% annual chance floodplain.
	Areas in which	
	COASTAL B	ARRIER RESOURCES SYSTEM (CBRS) AREAS
CBRS areas ar	OTHERWISI	E PROTECTED AREAS (OPAs) ally located within or adjacent to Special Flood Hazard Areas.
		Floodplain boundary
		Floodway boundary Zone D boundary
•••••	•••••	CBRS and OPA boundary
		Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or velocities.
~~~~513	~~~~~	Base Flood Elevation line and value; elevation in feet*
(EL 987	)	Base Flood Elevation value where uniform within zone; elevation in feet *
*Referenced t	o the North Ameri	can Vertical Datum of 1988 Cross Section Line
23	23	Transect Line
97°07′30″, 3	2°22′30″	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4276 6000	5000M	1000-meter Universal Transverse Mercator grid values, zone 18
DX551	0~	Bench mark (see explanation in Notes to Users section of
e M1	5×	this FIRM panel).
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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 Elevation** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data 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 should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

**Coastal Base Flood Elevation (BFEs)** shown on this map apply only landward of 0.0' North American Vertical Datum (NAVD). Users of this FIRM should be aware that coastal flood elevations may also be provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this community. Elevations shown 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 FIRM.

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Spatial Reference System Division National Geodetic Survey, NOAA Silver Spring Metro Center 1315 East-West Highway Silver Spring, Maryland 20910 (301) 713-3242

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Phone: 800-358-9616 FAX: 800-358-9620

http://msc.fema.gov/

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![](_page_28_Figure_18.jpeg)

LEGEND							
SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT							
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ZONE A No base flood elevations determined.							
ZONE AE	Base flood elevations determined. Flood depths of 1 to 3 feet (usually areas of ponding); base flood						
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.						
ZONE AR	Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood event.						
ZONE A99	Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no base flood elevations determined.						
ZONE V ZONE VE	Coastal flood zone with velocity hazard (wave action); no base flood elevations determined. Coastal flood zone with velocity hazard (wave action); have flood elevations						
determined.							
FLOODWAY AREAS IN ZONE AE The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without							
substantial ind	reases in flood heights.						
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 course miles and ensure areas that by levera from 1%.						
	flood.	1 square mile; and areas protected by levees from 1% annual chance flood.					
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	OTHERWIS	SE PROTECTED AREAS (OPAs)					
CBRS areas ar	nd OPAs are norn	nally located within or adjacent to Special Flood Hazard Areas. Floodplain boundary					
		Floodway boundary Zone D boundary CRRs and ORA have down					
•••••	·····	CBRS and OPA boundary Boundary dividing Special Flood Hazard Areas of different					
513-	<b>`</b>	Base Flood Elevations, flood depths or velocities. Base Flood Elevation line and value: elevation in feet*					
(EL 987	)	Base Flood Elevation value where uniform within zone;					
*Referenced t	o the North Ame	rican Vertical Datum of 1988					
(A)	— (A)	Cross Section Line					
97°07′30″, 3	<b>23</b>	Geographic coordinates referenced to the North American					
4276	5000M	1000-meter Universal Transverse Mercator grid values, zone 18					
6000	00 FT	5000-foot grid ticks					
DX551	o×	Bench mark (see explanation in Notes to Users section of this FIRM panel).					
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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 in this jurisdiction.

The **projection** used in the preparation of this map is Universal Tranverse Mercator (UTM) zone 18. The **horizontal datum** is NAD83, GRS1980 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 the 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 www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division National Geodetic Survey, NOAA Silver Spring Metro Center 1315 East-West Highway Silver Spring, Maryland 20910 (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 their website at www.ngs.noaa.gov.

**Base map** information shown on this FIRM was provided in digital format by the Henrico County GIS Department.

**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.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment revising portions of this panel, and digital versions of this PANEL may be available. Contact the **FEMA Map Service Center** at the following phone numbers and Internet address for infomation on all related products available from FEMA;

Phone: 800-358-9616 FAX: 800-358-9620

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/business/nfip/

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 may reflect stream channel distances that differ from what is shown on this map.

![](_page_29_Figure_18.jpeg)

HENRICO COUNTY UNINCORPORATED AREAS 510077

308000 M

309000 M JOINS PANEL 0270

310000 M

311000 M

JOINS PANEL 0200

![](_page_29_Picture_20.jpeg)

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Phone: 800-358-9616 FAX: 800-358-9620

http://msc.fema.gov/

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![](_page_30_Figure_18.jpeg)

![](_page_30_Picture_21.jpeg)

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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 in this jurisdiction.

The **projection** used in the preparation of this map is Universal Tranverse Mercator (UTM) zone 18. The **horizontal datum** is NAD83, GRS1980 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 the 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 www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division National Geodetic Survey, NOAA Silver Spring Metro Center 1315 East-West Highway Silver Spring, Maryland 20910 (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 their website at <u>www.ngs.noaa.gov.</u>

**Base map** information shown on this FIRM was provided in digital format by the Henrico County GIS Department.

**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.

An accompanying Flood Insurance Study report, Letters of Map Revision or Letters of Map Amendment revising portions of this panel, and digital versions of this PANEL may be available. Contact the **FEMA Map Service Center** at the following phone numbers and Internet address for infomation on all related products available from FEMA;

Phone: 800-358-9616 FAX: 800-358-9620

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/business/nfip/

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 may reflect stream channel distances that differ from what is shown on this map.

![](_page_31_Picture_18.jpeg)

DINS PANEL

37°18'45\*

77°18'45″

297000 M

.

JOINS PANEL 0300

299000 M

![](_page_31_Picture_30.jpeg)

![](_page_32_Figure_0.jpeg)

FIRM Panel Dates For Printed Panels of Henrico County, VA (All Jurisdictions)							
Panel	Effective Date	Panel	Effective Date	Panel	Effective Date		
0010C	December 18, 2007	0105C	December 18, 2007	0210C	December 18, 2007		
0020C	December 18, 2007	0110C	December 18, 2007	0220C	December 18, 2007		
0030C	December 18, 2007	0115C	December 18, 2007	0230C	December 18, 2007		
0035C	December 18, 2007	0120C	December 18, 2007	0235C	December 18, 2007		
0040C	December 18, 2007	0130C	December 18, 2007	0240C	December 18, 2007		
0045C	December 18, 2007	0135C	December 18, 2007	0245C	December 18, 2007		
0055C	December 18, 2007	0145C	December 18, 2007	0255C	December 18, 2007		
0065C	December 18, 2007	0155C	December 18, 2007	0260C	December 18, 2007		
0070C	December 18, 2007	0165C	December 18, 2007	0265C	December 18, 2007		
0085C	December 18, 2007	0170C	December 18, 2007	0285C	December 18, 2007		
0095C	December 18, 2007	0190C	December 18, 2007				

#### MAP DATES

This FIRM Index displays the map dates for each FIRM panel at the time that this Index was printed. Because this Index may not be distributed to unaffected communities in subsequent revisions, users may determine the most current map date for each FIRM panel by visiting the FEMA Map Service Center website at http://www.msc.fema.gov, or by calling the Map Service Center at 1-800-358-9616.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from Map Service Center at the number listed above.

#### NOTICE

Future revisions to this FIRM Index will only be issued to communities that are located on FIRM panels being revised. This FIRM Index therefore remains valid for FIRM panels dated December 18, 2007 or earlier. Please refer to the "most recent FIRM panel date" column in the listing of communities table to determine the most recent FIRM Index date for each community.

#### ELEVATION DATUM

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 datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, contact the National Geodetic Survey at the following address:

> Spatial Reference System Division National Geodetic Survey, NOAA Silver Spring, Metro Center 1315 East West Highway Silver Spring, Maryland 20910 (301) 713-3191

> > BASE MAP SOURCE

Base map data obtained by the Henrico County GIS Department.

MAP REPOSITORY (Maps available for reference only, not for distribution.)

> Henrico County County Courthouse 4301 East Parham Road Richmond, VA 23229

![](_page_32_Picture_17.jpeg)

![](_page_32_Picture_18.jpeg)