Accomack-Northampton Planning District Commission

Application For

Community Flood Preparedness Fund

The Impacts of Climate Change on Crop Planning and Production: An Agricultural Study of the Eastern Shore

Jessica Steelman, Coastal Planner
Accomack-Northampton Planning District Commission
August 31, 2021

Application Form for Grant Requests for All Categories

Virginia Department of Conservation and Recreation
Virginia Community Flood Preparedness Fund Grant Program

Name of Local Government:

Accomack-Northampton Planning District Commission (A-NPDC)

Category of Grant Being Applied for (check one):

____**Capacity Building/Planning**

_____**Project**

__✓__**Study**

NFIP/DCR Community Identification Number (CID) 510001 and 510105

If a state or federally recognized Indian tribe, Name of tribe N/A

Name of Authorized Official: Elaine Meil, Executive Director

Signature of Authorized Official: Elaine K Meil

Mailing Address (1): PO Box 417

Mailing Address (2): 23372 Front Street

City: Accomac **State:** VA **Zip:** 23301

Telephone Number: ([redacted] **Cell Phone Number:** (____) _____

Email Address: [redacted]

Application Form CFPF| 1-A

Contact Person (If different from authorized official): Jessica Steelman, Coastal Planner

Mailing Address (1): PO Box 417

Mailing Address (2): 23372 Front Street

City: Accomac **State:** VA **Zip:** 23301

Telephone Number: ([redacted] **Cell Phone Number:** (____) _____

Email Address: [redacted]

Is the proposal in this application intended to benefit a low-income geographic area as defined in the Part 1 Definitions? Yes ✓ No ____

Categories (select applicable project):

Project Grants (Check All that Apply)

- ☐ Acquisition of property (or interests therein) and/or structures for purposes of allowing floodwater inundation, strategic retreat of existing land uses from areas vulnerable to flooding; the conservation or enhancement of natural flood resilience resources; or acquisition of structures, provided the acquired property will be protected in perpetuity from further development.
- ☐ Wetland restoration.
- ☐ Floodplain restoration.
- ☐ Construction of swales and settling ponds.
- ☐ Living shorelines and vegetated buffers.
- ☐ Structural floodwalls, levees, berms, flood gates, structural conveyances.
- ☐ Storm water system upgrades.
- ☐ Medium and large scale Low Impact Development (LID) in urban areas.
- ☐ Permanent conservation of undeveloped lands identified as having flood resilience value by *ConserveVirginia* Floodplain and Flooding Resilience layer or a similar data driven analytic tool.
- ☐ Dam restoration or removal.
- ☐ Stream bank restoration or stabilization.
- ☐ Restoration of floodplains to natural and beneficial function.
- ☐ Developing flood warning and response systems, which may include gauge installation, to notify residents of potential emergency flooding events.

Study Grants (Check All that Apply)

- ☐ Studies to aid in updating floodplain ordinances to maintain compliance with the NFIP or to incorporate higher standards that may reduce the risk of flood damage. This must include establishing processes for implementing the ordinance, including but not limited to, permitting, record retention, violations, and variances. This may include revising a floodplain ordinance when the community is getting new Flood Insurance Rate Maps (FIRMs), updating a floodplain ordinance to include floodplain setbacks or freeboard, or correcting issues identified in a Corrective Action Plan.
- ☐ Revising other land use ordinances to incorporate flood protection and mitigation goals, standards and practices.
- ☐ Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA). For example, a local government might conduct a hydrologic and hydraulic study for an area that had not been studied because the watershed is less than one square mile. Modeling the floodplain in an area that has numerous letters of map change that suggest the current map might not be fully accurate or doing a detailed flood study for an A Zone is another example.
- ☑ Studies and Data Collection of Statewide and Regional Significance.
- ☑ Revisions to existing resilience plans and modifications to existing comprehensive and hazard.
- ☑ Other relevant flood prevention and protection project or study.

<u>Capacity Building and Planning Grants</u>

- ☐ Floodplain Staff Capacity.
- ☐ Resilience Plan Development
  - ☐ Revisions to existing resilience plans and modifications to existing comprehensive and hazard mitigation plans.
  - ☐ Resource assessments, planning, strategies and development.
    - Policy management and/or development.
    - Stakeholder engagement and strategies.

Location of Project (Include Maps): Eastern Shore of Virginia (region-wide); map included in SOW Supporting Docs. p. 9

NFIP Community Identification Number (CID#):(See appendix F 510001 and 510105

Is Project Located in an NFIP Participating Community? ☑ Yes ☐ No

Is Project Located in a Special Flood Hazard Area? ☑ Yes ☐ No

Flood Zone(s) (If Applicable): Both counties fall within Flood Zone X

Flood Insurance Rate Map Number(s) (If Applicable): See FIRM Index in SOW Supporting Docs. pg. 10-11

Total Cost of Project: $73,000

Total Amount Requested $65,594

Scoring Criteria for Studies

Virginia Department of Conservation and Recreation
Virginia Community Flood Preparedness Fund Grant Program

Applicant Name:		
Eligibility Information		
Criterion	**Description**	**Check One**
1. Is the applicant a local government (including counties, cities, towns, municipal corporations, authorities, districts, commissions, or political subdivisions created by the General Assembly or pursuant to the Constitution or laws of the Commonwealth, or any combination of these)?		
Yes	Eligible for consideration	✓
No	Not eligible for consideration	
2. Does the local government have an approved resilience plan and has provided a copy or link to the plan with this application?		
Yes	Eligible for consideration under all categories	✓
No	Eligible for consideration for studies, capacity building, and planning only	
3. If the applicant is <u>not a town, city, or county</u>, are letters of support from all affected local governments included in this application?		
Yes	Eligible for consideration	✓
No	Not eligible for consideration	
4. Has this or any portion of this project been included in any application or program previously funded by the Department?		
Yes	Not eligible for consideration	
No	Eligible for consideration	✓
5. Has the applicant provided evidence of an ability to provide the required matching funds?		
Yes	Eligible for consideration	✓
No	Not eligible for consideration	
N/A	Match not required	

Checklist All Categories

Virginia Department of Conservation and Recreation

Community Flood Preparedness Fund Grant Program

Scope of Work Narrative	
Supporting Documentation	**Included**
Detailed map of the project area(s) (Projects/Studies)	☑ Yes ☐ No ☐ N/A
FIRMette of the project area(s) (Projects/Studies)	☑ Yes ☐ No ☐ N/A
Historic flood damage data and/or images (Projects/Studies)	☑ Yes ☐ No ☐ N/A
A link to or a copy of the current floodplain ordinance	☑ Yes ☐ No ☐ N/A
Non-Fund financed maintenance and management plan for project extending a minimum of 5 years from project close	☐ Yes ☐ No ☑ N/A
A link to or a copy of the current hazard mitigation plan	☑ Yes ☐ No ☐ N/A
A link to or a copy of the current comprehensive plan	☑ Yes ☐ No ☐ N/A
Social vulnerability index score(s) for the project area from ADAPT VA's Virginia Vulnerability Viewer	☑ Yes ☐ No ☐ N/A
If applicant is not a town, city, or county, letters of support from affected communities	☑ Yes ☐ No ☐ N/A
Completed Scoring Criteria Sheet in Appendix B, C, or D	☑ Yes ☐ No ☐ N/A
Budget Narrative	
Supporting Documentation	**Included**
Authorization to request funding from the Fund from governing body or chief executive of the local government	☑ Yes ☐ No ☐ N/A
Signed pledge agreement from each contributing organization	☑ Yes ☐ No ☐ N/A

Scope of Work Narrative

Project Overview: The Accomack-Northampton Planning District Commission (A-NPDC) will contract an agricultural engineer (or comparable professional) to conduct a new rainfall study. This study will address adaptation impacts by meeting the community's need to assess the impact of intense rainfall and flooding upon the Eastern Shore's agriculture and food processing sector, assist in crop forecasting, examine how the growing zone is impacted, and inform production efforts. These efforts will aid in guiding future regional resilience plan development for flood mitigation within the agricultural sector. The goal is to improve action-oriented approaches to bolster flood preparedness that can be used as a planning tool by the Eastern Shore's agricultural sector and serve as a model state-wide. The region will use this study to develop a comprehensive Regional Resiliency Plan that will identify barriers to flood mitigation and promote equity across the sector, and ultimately build capacity through development of this planning tool.

Introduction: This is a regional study, encompassing the two counties of Virginia's Eastern Shore: Northampton County and Accomack County. Both counties are part of the federal floodplain management area of Virginia. Accomack County also participates in the Community Rating System (CRS), with a CRS Class rating of 6 for a 20% policy discount of the National Flood Insurance Program (NFIP); The Town of Cape Charles ranks as Class 8, for a 10% discount, as does the Town of Chincoteague, and the Town of Wachapreague.

The volume and distribution of precipitation is expected to change across the Chesapeake Bay watershed in the coming years as a result of the effect of climate change on coastal flooding through sea level rise, storm surge, and increases in intense rainfall during storms. The changing hydrologic conditions pose a great risk to crop planning, production, and processing on Virginia's Eastern Shore. The Eastern Shore is one of the state's largest agriculture and food processing sectors, and agriculture is the region's largest employer.

According to the Virginia Cooperative Extension, the total farm net revenue in 2018 was $304.5 million with total cropland equaling 133,439 acres. Accomack County was ranked 4th largest producing county for poultry in the state, with sales averaging $108 million. Accomack County also ranked as the largest soybean producing county in Virginia, with Northampton County ranking 4th largest with annual sales totaling $26 million. Accomack County is also the largest corn producing county in Virginia, with 27,000 acres dedicated to corn crop production and annual sales averaging $18 million. Virginia's wheat production is most prominent on the Eastern Shore, with Northampton County ranking as the largest wheat producer in the state and Accomack County ranking 2nd largest with 30,000 acres dedicated to wheat production and annual sales reaching $11 million. Lastly, Northampton County is the 5th largest producer of plant nurseries in the state, bringing in annual sales of $40 million.

It is important to note that the Eastern Shore's primary crops of corn, soybeans and wheat are processed and consumed locally in its poultry production. In fact, the Eastern Shore is a net importer of these crops because the region cannot produce adequate grain supply to meet the poultry producers' demand. According to Emsi Q3 2021 data and additional data provided by Economic Development consultant Thomas P. Miller & Associates, the agriculture and food processing industry on the Eastern Shore met demand through recorded imports of $57,518,700. Additionally, the region's agriculture sector was responsible for $33,735,115 in exported sales and $62,850,380 in Gross Regional Product.

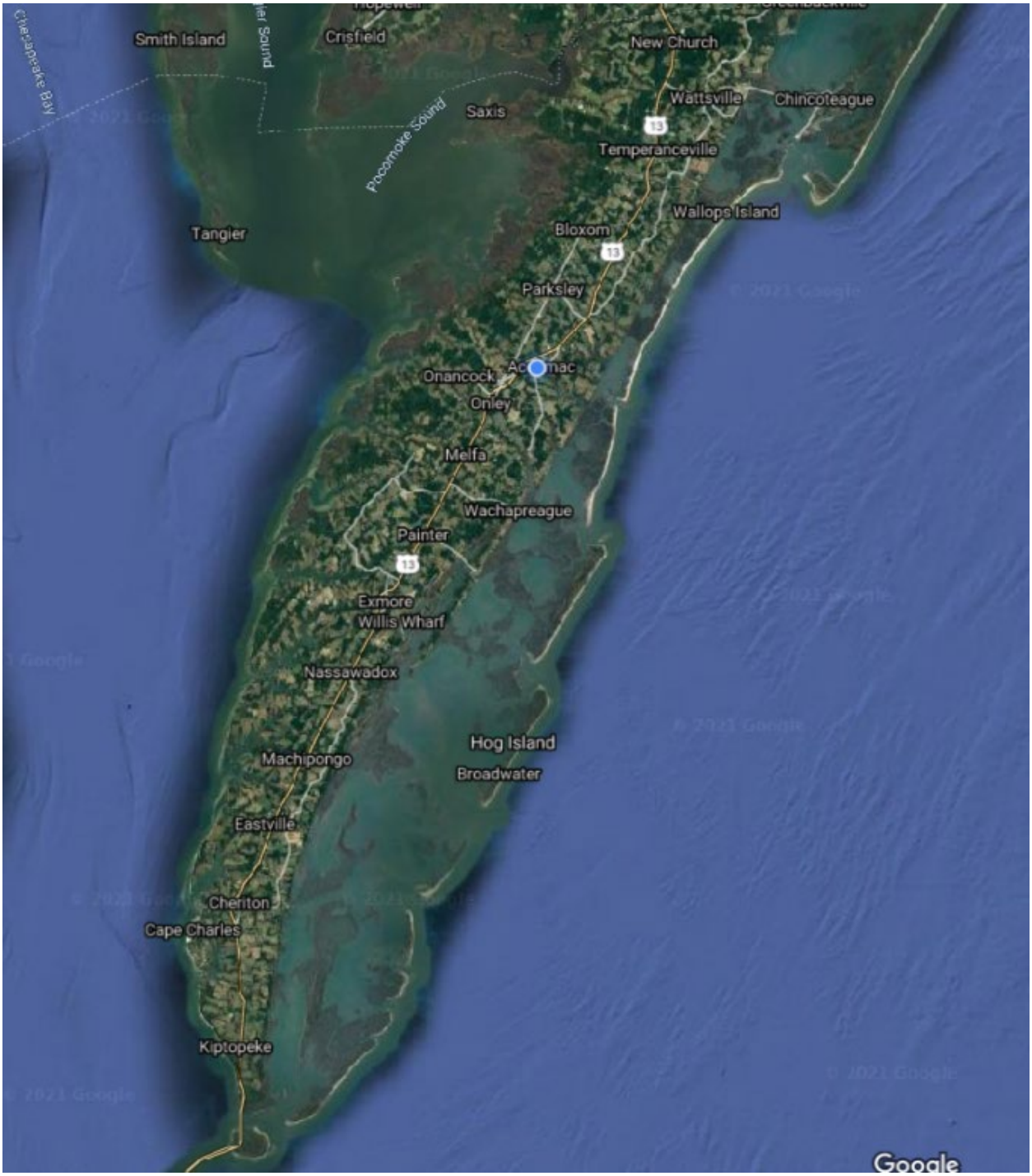
A recent workshop conducted by Maryland Sea Grant, with funding from the National Science Foundation's Coastlines and People Program, titled *Coastal Farming Challenges* (Appendix A) resulted in significant, observed impacts on crop production attributed to sea level rise and flooding by the participants including, but not limited to: more standing water on the land, increase in wetland plants, flooding by seawater, more salt in soils, land no longer suitable for planting, reduction in crop productivity, and increased costs to manage land. These impacts revealed challenges such as land that formerly produced good yields may not do so due to being too wet, thereby becoming inefficient to farm, or by putting machinery at risk. While a possible land management option is to plant alternative crops, there are still unknowns such as these alternative crops or salt-tolerant versions of standard crops having low yield, limited markets, and possible need for new farm machinery. Other options that direct transformation of the land to an alternative, desired condition may limit practices farmers may use on the land and require farmers to restructure business models – both of which can be costly to farmers. In a low-income geographic area such as the Eastern Shore, these strategies along with some others, such as drainage ponds, catch basins, salty soil remediation and spillways to improve drainage are not feasible due to being cost-prohibitive and potentially not worth the investment on less productive lands. Farmers who participated in this workshop expressed a need for research on coastal agricultural issues, such as sea level rise and flooding. Additional research would include the development of cost-effective drainage options to reduce flooding and mapping of current and forecasted saltwater intrusion areas.

Study Scope:

- This is a *new* study that will use the IDF data and modeling tool to assess changing rainfall patterns. The study will identify various scenarios and propose mitigation steps under each scenario.
- As a baseline, the study will examine historic data to update precipitation rates, flood risks, and IDF information on a regional scale.
- Planning Tool: The study's baseline will be used for future master planning by developing a comprehensive approach to flood preparedness and resilience.
- Practical Tool: The study will provide a framework for future mitigation efforts and assist farmers in making crop planning decisions using the best available science.
- The study will perform a vulnerability analysis for crop planning, production, transportation, and storage. Other at-risk agricultural infrastructure may be included.
- The study will seek a region-specific approach, tailored to the needs of the individual communities.
- The A-NPDC and/or contractor will perform public outreach and education strategies in order to develop a community approach to resilience.
- The contractor will use the information obtained through public outreach to address the region's needs for economic resilience, equity, and community improvement.
- The study will perform data collection in support of future projects of regional significance.
- The study can be used as a long-range planning document to prioritize and improve the effectiveness of future resilience and economic development projects in the agricultural sector.

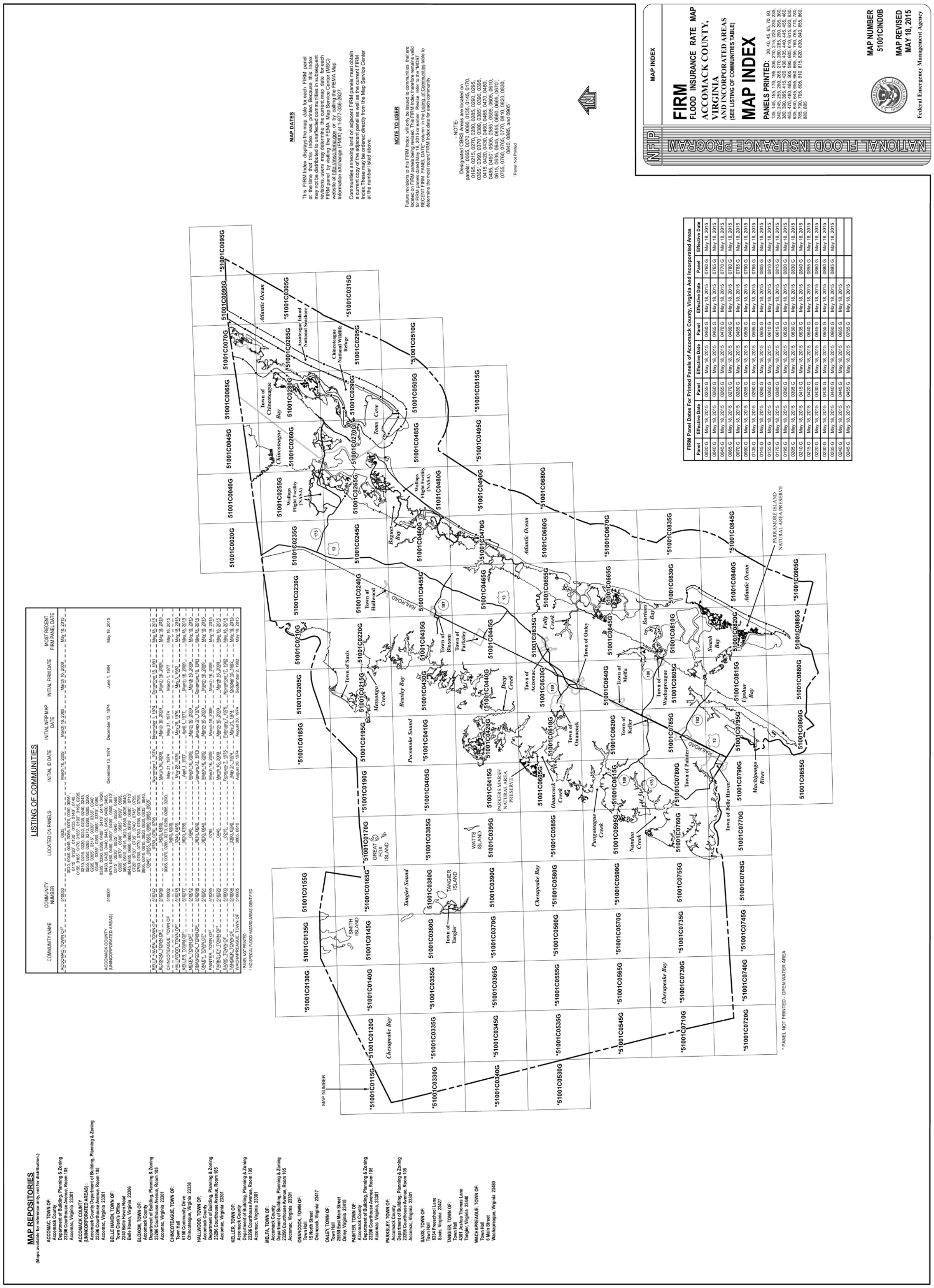
Supporting Documentation

Detailed Map of the Project Area

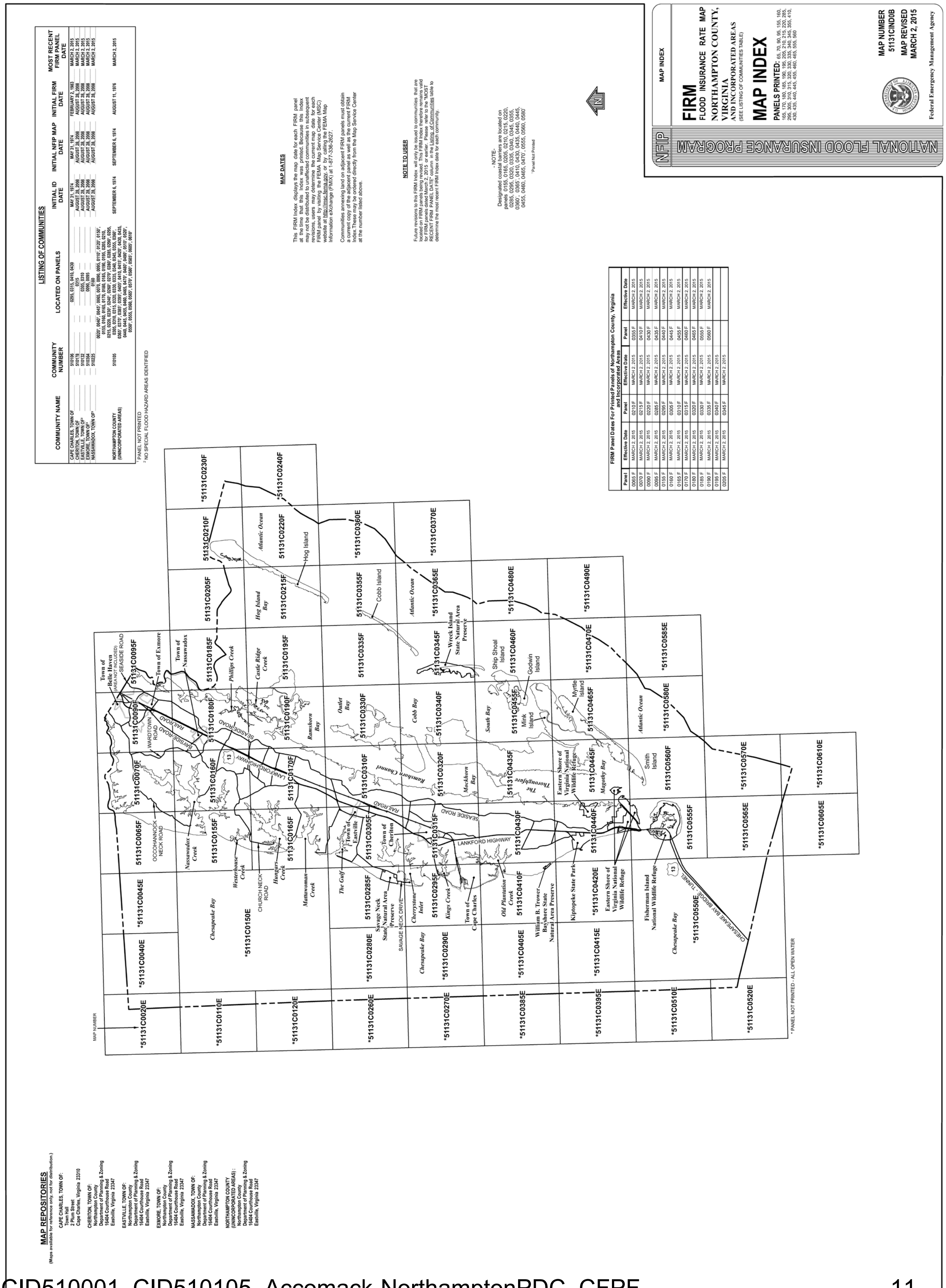


FIRMette of the Project Areas

See Appendix B for Accomack County FIRMette panels



See Appendix C for Northampton County FIRMette panels



Historic Flood Damage Data

See Appendix D for Tables 1 & 2: Major 20th Century Storms affecting the Eastern Shore of Virginia and Tables 3 & 4: Major 21st Century Storms affecting the Eastern Shore of Virginia.

Further historical flood damage data dating back to pre-1564 can be viewed in The Eastern Shore of Virginia Hazard Mitigation Plan 2016 (linked below) on pages 5-7 of Chapter 1: Hazards on the Shore.

Flooding on Randolph Avenue, 3 ½ blocks from the Chesapeake Bay, in Cape Charles from one of the 1930s hurricanes. Photo Credit: U.S. Army Corps of Engineers Flood Plain Cape Charles Report

Flooding during the Ash Wednesday Storm of 1962. Photo printed in the Army Corp of Engineers Flood Plain Report for Wachapreague

Storm water flooding on U.S. Route 13 during Tropical Depression Ernesto in 2006. Photo Credit: Jay Diem, Eastern Shore News

Hazard Mitigation Plan 2016

http://www.a-npdc.org/wp-content/uploads/2016/04/FullHMP2016.pdf

Current Floodplain Ordinances

Accomack County –
https://library.municode.com/va/accomack_county/codes/code_of_ordinances?nodeId=CO_CH106ZO_ARTXVFLHAOVDI

Northampton County –
https://codelibrary.amlegal.com/codes/northamptoncounty/latest/northampton_va/0-0-0-16924

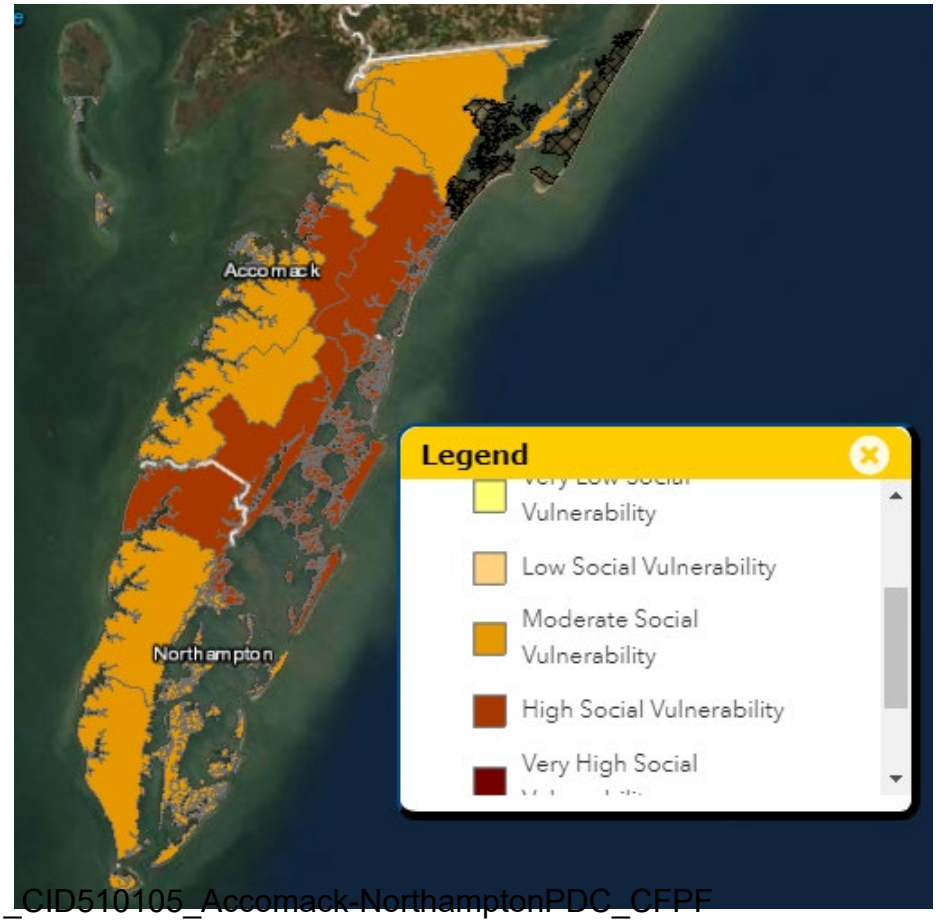
Comprehensive Plans

Accomack County –
https://www.co.accomack.va.us/home/showpublisheddocument/10669/636761702081200000

Northampton County –
https://p1cdn4static.civiclive.com/UserFiles/Servers/Server_14877142/File/I%20Want%20To%E2%80%A6/Volunteer/Comp%20Plan/Complete_Comp_Plan_Apr_2009.pdf

Social Vulnerability Scores

For the entire Eastern Shore Region, scores range from 0.3 – 1.3 (falling in either the moderate-social to high-social vulnerability categories).



Budget Narrative

The Eastern Shore Region, consisting of Accomack and Northampton counites, as represented by the Accomack-Northampton Planning District Commission (A-NPDC), qualifies as a *Low-Income Geographic Area* per the definitions in the CFPF Grant Manual, making the match requirement for this application 10% of total project budget. The estimated total project cost is $73,000 with $65,594 being requested from the Fund and cash funds (non-federal match) contribution of $7,406. The source of match funds is the A-NPDC; a Pledge Agreement has been included as part of the application packet. See the tables below for a breakdown of the total project budget.

Budget Summary Worksheet			
Category	**Federal Request**	**Non-Federal Match**	**Total**
A. Personnel	$ 7,677.00	$ 4,344.00	$ 12,021.00
B. Fringe	$ 2,187.00	$ 1,175.00	$ 3,362.00
C. Supplies	$ 2,000.00		$ 2,000.00
D. Travel	$ 357.00		$ 357.00
E. Contractual	$ 50,000.00		$ 50,000.00
Total Direct Costs	$ 62,221.00	$ 5,519.00	$ 67,740.00
G. Indirect Costs	$ 3,373.00	$ 1,887.00	$ 5,260.00
Total	$ 65,594.00	$ 7,406.00	$ 73,000.00

A. Personnel

Personnel Worksheet - Federal Costs				
Title	**Name (or Vacant)**	**Annual Salary**	**Level of Effort (%)**	**Total Personnel Cost**
Director of Planning	Anne Doyle	$56,000	6%	$3,360
Coastal Planner	Jessica Steelman	$44,100	7%	$3,087
Director of Admin	Sandy Taylor	$61,500	2%	$1,230
Total				**$7,677**

Personnel Worksheet -Non-Federal Costs				
Title	**Name (or Vacant)**	**Annual Salary**	**Level of Effort (%)**	**Total Personnel Cost**
Director of Planning	Anne Doyle	$56,000	5%	$2,800
Coastal Planner	Jessica Steelman	$44,100	3.5%	$1,544
Total				**$4,344**

B. Fringe - Fringe reflects current rate for agency – 28.49%

	Fringe Worksheet - Federal Costs			
Name/Title (If Using Individual Fringe Rates)	**Component**	**Rate (%)**	**Salary (amount carried down from the Total Personnel Cost from the Personnel)**	**Total Fringe Cost**
	Health Insurance	14.30%	$7,677	$1,098
	FICA	7.65%	$7,677	$587
	Retirement/Life	4.20%	$7,677	$322
	Group Life	1.33%	$7,677	$102
	Unemployment Insurance	0.18%	$7,677	$14
	Leave Accruals	0.83%	$7,677	$64
Total		**28.49%**		**$2,187**

	Fringe Worksheet - Non-Federal Costs			
Name/Title (If Using Individual Fringe Rates)	**Component**	**Rate (%)**	**Salary (amount carried down from the Total Personnel Cost from the Personnel)**	**Total Fringe Cost**
	Health Insurance	14.30%	$4,123	$590
	FICA	7.65%	$4,123	$315
	Retirement/Life	4.20%	$4,123	$173
	Group Life	1.33%	$4,123	$55
	Unemployment Insurance	0.18%	$4,123	$7
	Leave Accruals	0.83%	$4,123	$34
Total		**28.49%**		**$1,175**

C. Indirect Cost Rate - A-NPDC's Indirect Cost Rate agreement is with Health & Human Resources. The current approved agreement provides 34.2% on Salaries and Fringes.

Indirect Costs Worksheet			
Indirect Cost Rate (%)	**Total Base Amount (Fed + Match)**	**Maximum Allowed Indirect Cost (Rate x Total Base)**	**Total Indirect Cost Included in Budget**
34.20%	**$15,383**	**$5,261**	**$5,261**

Indirect Costs Worksheet		
Federal Indirect Cost	**Non-Federal Match Indirect Cost**	**Total Indirect Cost Included in Budget**
$3,373	$1,887	**$5,260**

APPENDICES

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APPENDIX A

COASTAL FARMING CHALLENGES
WORKSHOP FINDINGS

A workshop funded by the National Science Foundation's Coastlines and People Program.

INTRODUCTION

Maryland Sea Grant and partners convened a series of workshops with coastal farmers and woodlot managers located in the Chesapeake and coastal bays region in Maryland and Virginia. The goal of the workshops was to learn about coastal farming challenges that farmers and woodlot managers may be experiencing due to sea level rise and to identify potential research and policy gaps affecting their ability to adapt to these changes.

WORKSHOP DESIGN

Twenty-five coastal farmers and woodlot managers participated in this project. Participants were recruited through existing agriculture networks (e.g. Land Grant Extension, US Department of Agriculture Natural Resources Conservation Service) and a local newspaper. Participants manage and/or own agricultural land ranging from 5 - 6,700 acres and produce a variety of crops (e.g. timber, corn, vegetables). Data were collected through three virtual 90-minute workshops, digital pre- and post-surveys, and phone interviews. The workshops included informative talks by experts about sea level rise and adaptation strategies for farmers, as well as discussion sessions for farmers and woodlot managers to voice their concerns and questions regarding adaptation. Participants shared their experiences and perspectives on changes to their land and potential management options to address landscape changes (Figure 1).

FINDINGS

IMPACTS AND MANAGEMENT

Participants' motivations to continue farming include sustaining their livelihood, continuing their family's legacy on the land, preserving cultural identity in the region, and/or furthering their own dreams and goals for the property.

Discussions during virtual workshops highlighted participants' current and planned land management strategies in response to sea level rise. These strategies vary depending on: the percentage of land affected by flooding and saltiness; the cost and effectiveness of available management techniques; perceived policy hurdles; and knowledge of the problem and available mitigation options. Some participants indicated they would like to continue managing land as they have been in the short term but expect to have to change their land management in the long term.

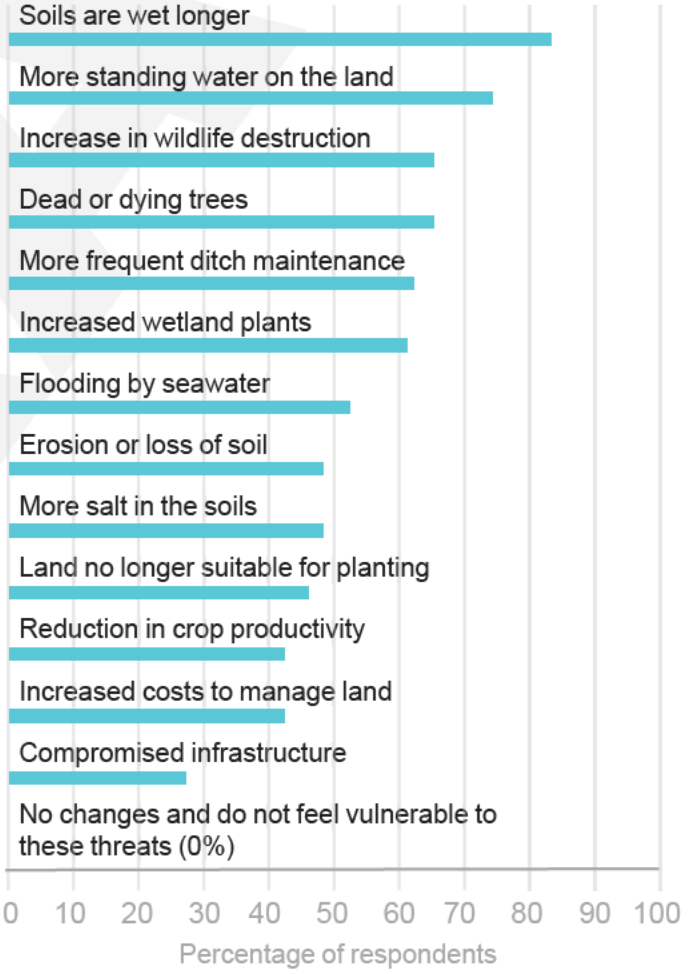


Figure 1. *Reported observed impacts attributed to sea level rise and flooding by participants in the pre-survey.*

APPENDIX A

Table 1. *Summarized possible courses of action and participants' assessment of relevant challenges according to three broad categories of how participants might respond to landscape changes due to sea level rise and flooding.*

	PREDOMINANT STRATEGIES		
	RESISTING CHANGES TO THE LAND	ACCEPTING CHANGE OF THE LAND	DIRECTING TRANSFORMATION OF THE LAND TO AN ALTERNATIVE, DESIRED CONDITION
LAND MANAGEMENT OPTIONS	Tide gates, dikes and berms, drainage ponds, catch basins, and spillways to improve drainage; salty soil remediation	Alternative crops (e.g. switch-grass, quinoa) and/or salt-tolerant crop varieties, ways to work around wet/salty areas, letting affected land go fallow	Actions that may allow for financial gain on otherwise unprofitable (i.e. flooded and/or salty) land and also contribute to environmental goals, such as conservation easements, hunting/recreation, ecotourism, carbon markets, and participation in programs that incentivize transition to wetlands
CHALLENGES	Available methods sometimes fail, may be cost-prohibitive, or might not be worth investment on less productive lands	Areas that are too wet may not produce good yields, are inefficient to farm, or may put machinery at risk. Alternative crops and/or salt-tolerant versions of standard crops may also present challenges such as low yield, limited markets, or need for new farm machinery	Some options (e.g. easements) limit practices farmers may use on the land and require navigation of policy hurdles (e.g. paperwork, planting/maintenance requirements, liabilities). In addition, transitioning to alternative economic revenues is challenging due to the required restructuring of business models

RESEARCH AND POLICY GAPS

In the post-survey, participants (n=20) were asked to vote for three of 16 research and policy gaps (generated from workshop discussions and phone interviews) they felt should be addressed by agencies and/or research. The top topics were:

- Develop cost-effective drainage options to reduce flooding (8 votes)
- Map current and forecasted saltwater intrusion areas (7 votes)
- Develop carbon credit/carbon sequestration programs and markets (6 votes)

Other ranked topics (4 or 5 votes) included: affordable erosion control options; new markets for alternative and/or salt-tolerant crops; local timber markets/processing operations; address destructive wildlife; control *Phragmites sp.*; increase timely access to technical service providers; increase flexibility of USDA Conservation Reserve Program (CRP) including the Conservation Reserve Enhancement Program (CREP) lands' plant cover requirements.

Throughout this small pilot project, participants expressed interest in learning more about novel opportunities (e.g. carbon market, technological developments in flood control) and any policies, funding, or available science which could help maintain operations and/or transition to different land uses. Further, respondents thought technical service providers and boundary organizations could facilitate actions on policy and research gaps by "conveying coastal challenges of agriculture to policy makers" and "facilitating collaborations for research on coastal agricultural issues."

CALL FOR COLLABORATION

Maryland Sea Grant is interested in collaborating further with farmers, woodlot managers, researchers, extension & outreach specialists, and policymakers to continue this initiative and help Maryland communities become more resilient to weather and climate hazards. Please contact Taryn Sudol at sudol@mdsg.umd.edu for more information or visit the website https://bit.ly/MDSG-coastal-agr for workshop presentations and forthcoming project reports.

APPENDIX B

EASTERN SHORE
SOIL AND WATER CONSERVATION DISTRICT
22545 Center Parkway • Accomac, Virginia 23301-1330
(757) 787-0918

Jessica Steelman
Coastal Planner
Accomack-Northampton Planning District Commission
[redacted]

August 30, 2021

RE: Support for *The Impacts of Climate Change on Crop Planning and Production: An Agricultural Study of the Eastern Shore*

Dear Mrs. Steelman,

On behalf of the Eastern Shore Soil & Water Conservation District (ESSWCD), I fully support the efforts of the Accomack-Northampton Planning District Commission (A-NPDC) in seeking funding from the Community Flood Preparedness Fund for the purpose of conducting an agricultural study. This study will meet the community's need to assess the impact of intense rainfall and flooding upon the Eastern Shore's agricultural sector, examine how the growing zone is impacted, and inform crop planning and production efforts. The A-NPDC's goal is to develop a regional approach to bolster flood preparedness and resilience that can be used as a planning tool by the Eastern Shore's agricultural sector. Furthermore, the study can act as a model state-wide as coastal regions continue to face an increasing amount of sea level rise and flood events.

Sincerely,

Robin Rich-Coates

Robin Rich-Coates, Chair
Eastern Shore SWCD

Cc: Carmie Savage
District Manager
Eastern Shore Soil & Water Conservation District
[redacted]

Cc: Anne Doyle
Director of Planning
Accomack-Northampton Planning District Commission
[redacted]

APPENDIX B

COUNTY OF ACCOMACK
OFFICE OF THE COUNTY ADMINISTRATOR

23296 Courthouse Ave – Room 203 | P.O. Box 388 | Accomac, Virginia 23301
(757) 787-5700 | administration@co.accomack.va.us
www.co.accomack.va.us

Michael T. Mason, CPA
County Administrator

August 30, 2021

Jessica Steelman
Coastal Planner
Accomack-Northampton Planning District Commission
[redacted]

RE: Support for *The Impacts of Climate Change on Crop Planning and Production: An Agricultural Study of the Eastern Shore*

Dear Mrs. Steelman,

On behalf Accomack County, I fully support the efforts of the Accomack-Northampton Planning District Commission (A-NPDC) in seeking funding from the Community Flood Preparedness Fund for the purpose of conducting an agricultural study. This study will meet the community's need to assess the impact of intense rainfall and flooding upon the Eastern Shore's agricultural sector, examine how the growing zone is impacted, and inform crop planning and production efforts. The A-NPDC's goal is to develop a regional approach to bolster flood preparedness and resilience that can be used as a planning tool by the Eastern Shore's agricultural sector. Furthermore, the study can act as a model state-wide as coastal regions continue to face an increasing amount of sea level rise and flood events.

Sincerely,

Michael T. Mason, CPA
County Administrator

cc: Anne Doyle, Director of Planning, Accomack-Northampton Planning District Commission

APPENDIX B

Board of Supervisors of Northampton County
P.O. Box 66 • Eastville, Virginia 23347

BOARD OF SUPERVISORS
L. Dixon Leatherbury, Chairman
M.E. "Betsy" Mapp, Vice Chairman
Oliver H. Bennett
John R. Coker
David W. Fauber

Charles Kolakowski
County Administrator

PHONE: 757-678-0440
FAX: 757-678-0483

August 30, 2021

Ms. Jessica Steelman
Coastal Planner
Accomack-Northampton Planning District Commission
[redacted]

Re: Support for *The Impacts of Climate Change on Crop Planning and Production: An Agricultural Study of the Eastern Shore*

Dear Mrs. Steelman:

On behalf of Northampton County, I fully support the efforts of the Accomack-Northampton Planning District Commission (A-NPDC) in seeking funding from the Community Flood Preparedness Fund for the purpose of conducting an agricultural study. This study will meet the community's need to assess the impact of intense rainfall and flooding upon the Eastern Shore's agricultural sector, examine how the growing zone is impacted, and inform crop planning and production efforts. The A-NPDC's goal is to develop a regional approach to bolster flood preparedness and resilience that can be used as a planning tool by the Eastern Shore's agricultural sector. Furthermore, the study can act as a model state-wide as coastal regions continue to face an increasing amount of sea level rise and flood events.

If you have any questions, please advise.

Sincerely yours,

CHARLES KOLAKOWSKI
County Administrator
[redacted]

Cc: Anne Doyle, Director of Planning
Accomack-Northampton Planning District Commission
[redacted]

APPENDIX C

A-NPDC

ACCOMACK-NORTHAMPTON PLANNING DISTRICT COMMISSION
P.O. BOX 417 • 23372 FRONT STREET • ACCOMAC, VIRGINIA 23301
(757) 787-2936 • TOLL FREE (866) 787-3001 • FAX: (757) 787-4221
WEBSITE: www.a-npdc.org

Authorization to Request Funding

The Executive Director has authorized the submission of this grant application to the Community Flood Preparedness Fund for project titled *The Impacts of Climate Change on crop Planning & Production: An Agricultural Study of the Eastern Shore.*

Elaine Meil, Executive Director
Name & Title

Accomack-Northampton Planning District Commission
Organization

Elaine Meil
Signature

Date 8/31/2021

Cc: Anne Doyle
Director of Planning
Accomack-Northampton PDC
[redacted]

Cc : Jessica Steelman
Coastal Planner
Accomack-Northampton PDC
[redacted]

APPENDIX D

A-NPDC

ACCOMACK-NORTHAMPTON PLANNING DISTRICT COMMISSION
P.O. BOX 417 • 23372 FRONT STREET • ACCOMAC, VIRGINIA 23301
(757) 787-2936 • TOLL FREE (866) 787-3001 • FAX: (757) 787-4221
WEBSITE: www.a-npdc.org

Pledge Agreement

I, Elaine Meil, on behalf of the Acccomack-Northampton Planning District Commission (A-NPDC), hereby pledge and agree to provide in-kind match to defray the cost of staff management of the study for project titled *The Impacts of Climate Change on Crop Planning & Production: An Agricultural Study of the Eastern Shore*, the sum of $7,406.00.

I agree to make a future contribution for the purpose of satisfying this pledge and the CFPF application requirements and further agree that this pledge will be satisfied during the agreement period.

Authorized Representative & Applicant Organization Information:

Elaine Meil, Executive Director
Accomack-Northampton Planning District Commission
PO Box 417/23372 Front Street
Accomac, VA 23301
(757) 787-2936

This pledge was made by:

Elaine Meil, Executive Director
Name & Title

Accomack-Northampton Planning District Commission
Organization

Elaine K Meil
Signature

Date 8/31/2021

The foregoing pledge is gratefully acknowledged and accepted, and its terms are hereby agreed to by:

Name & Title

Organization

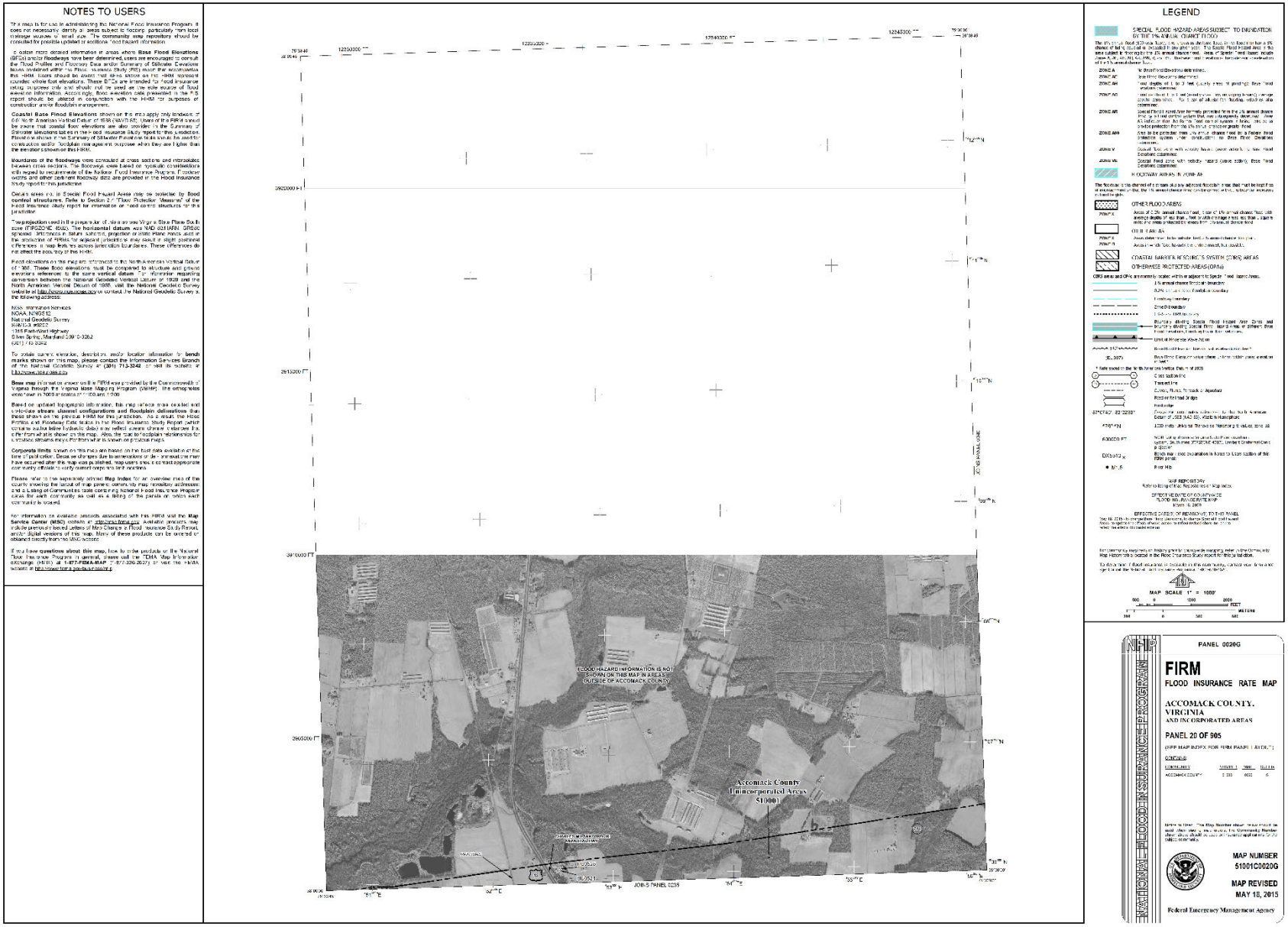
Signature

Date

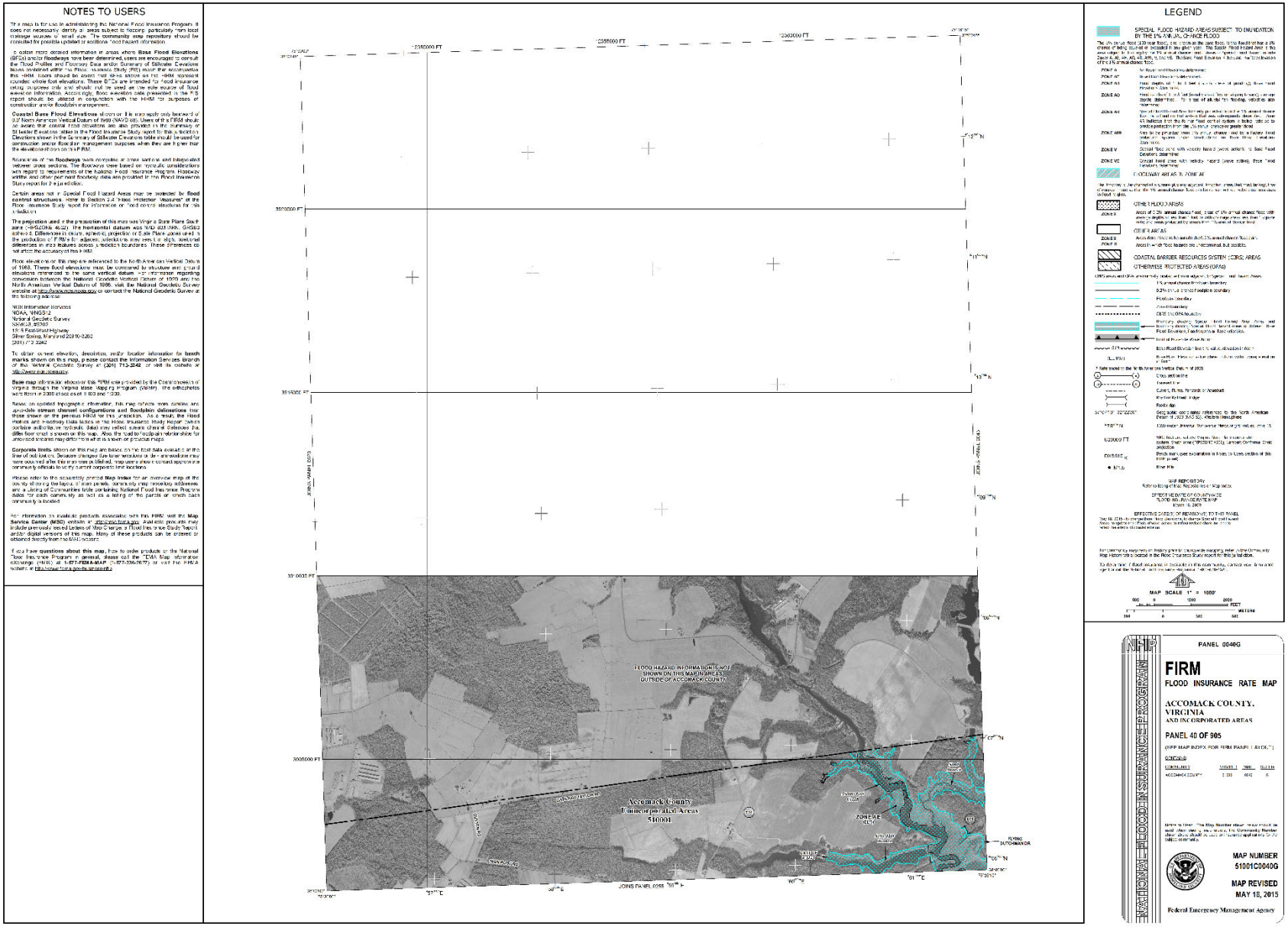
Cc: Anne Doyle
Director of Planning
Accomack-Northampton PDC
[redacted]

Cc : Jessica Steelman
Coastal Planner
Accomack-Northampton PDC
[redacted]

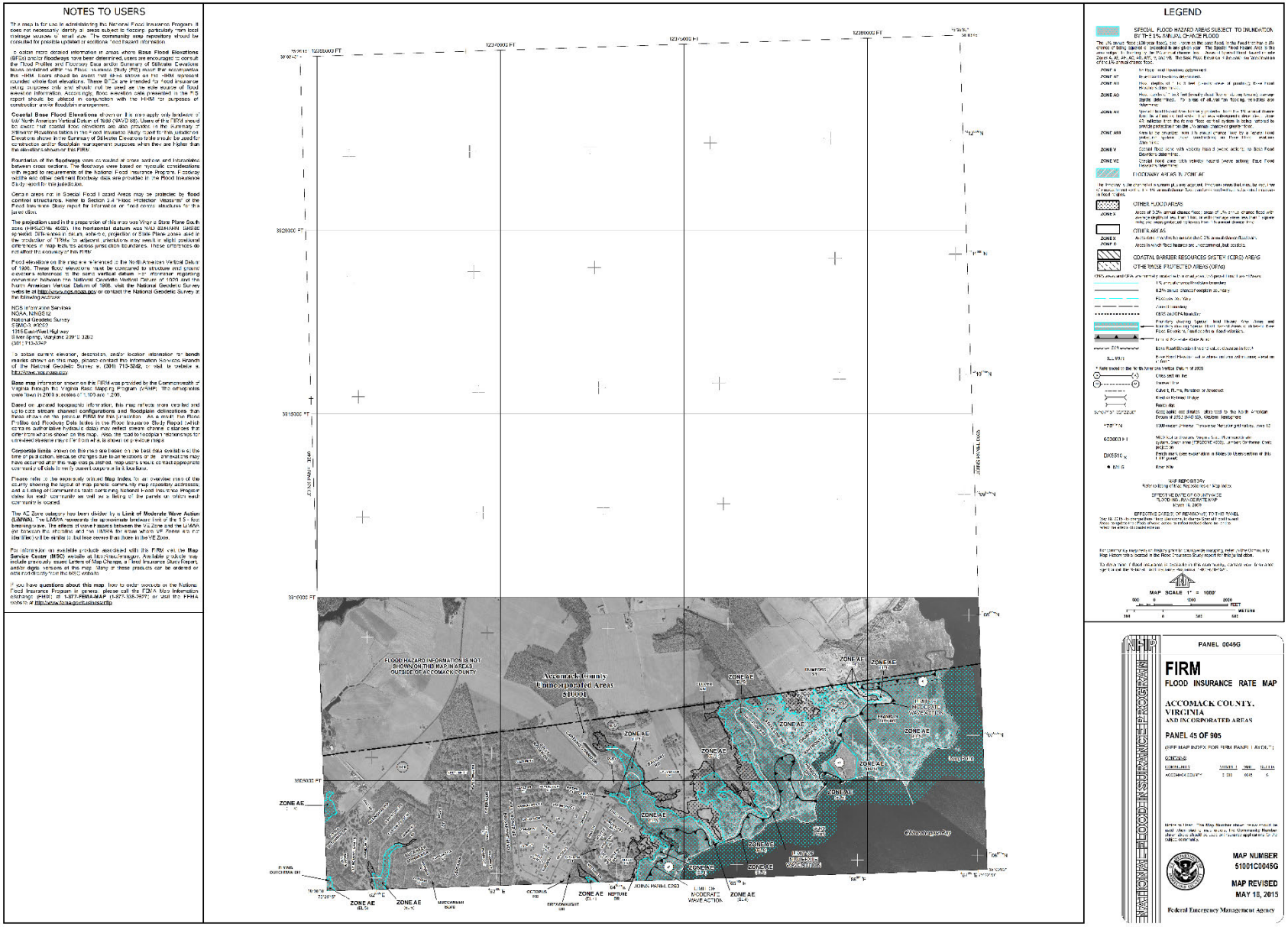
APPENDIX E


NOTES TO USERS
LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
Accomack County
Unincorporated Areas
510001
JOIN S PANEL 0235
MAP SCALE 1" = 1000'
PANEL 0020G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 20 OF 905
MAP NUMBER
51001C0020G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

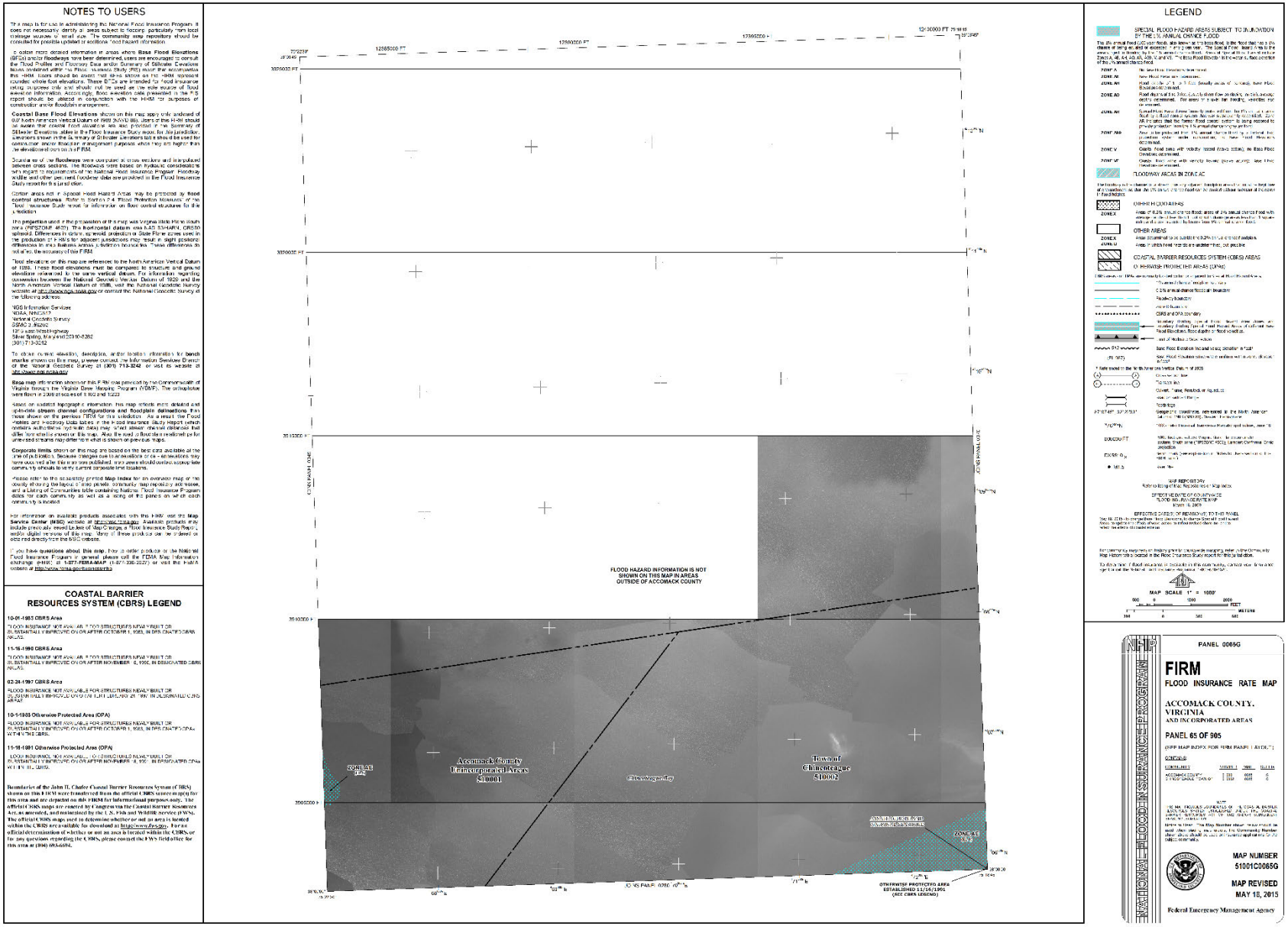
APPENDIX E


NOTES TO USERS
LEGEND
FLOOD HAZARD INFORMATION NOT SHOWN ON THIS MAP (AREAS OUTSIDE OF ACCOMACK COUNTY)
Accomack County Unincorporated Areas 510001
ZONE A
ZONE AE
JOINS PANEL 0055 "55" N
PANEL 0040G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 40 OF 905
MAP NUMBER
51001C0040G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

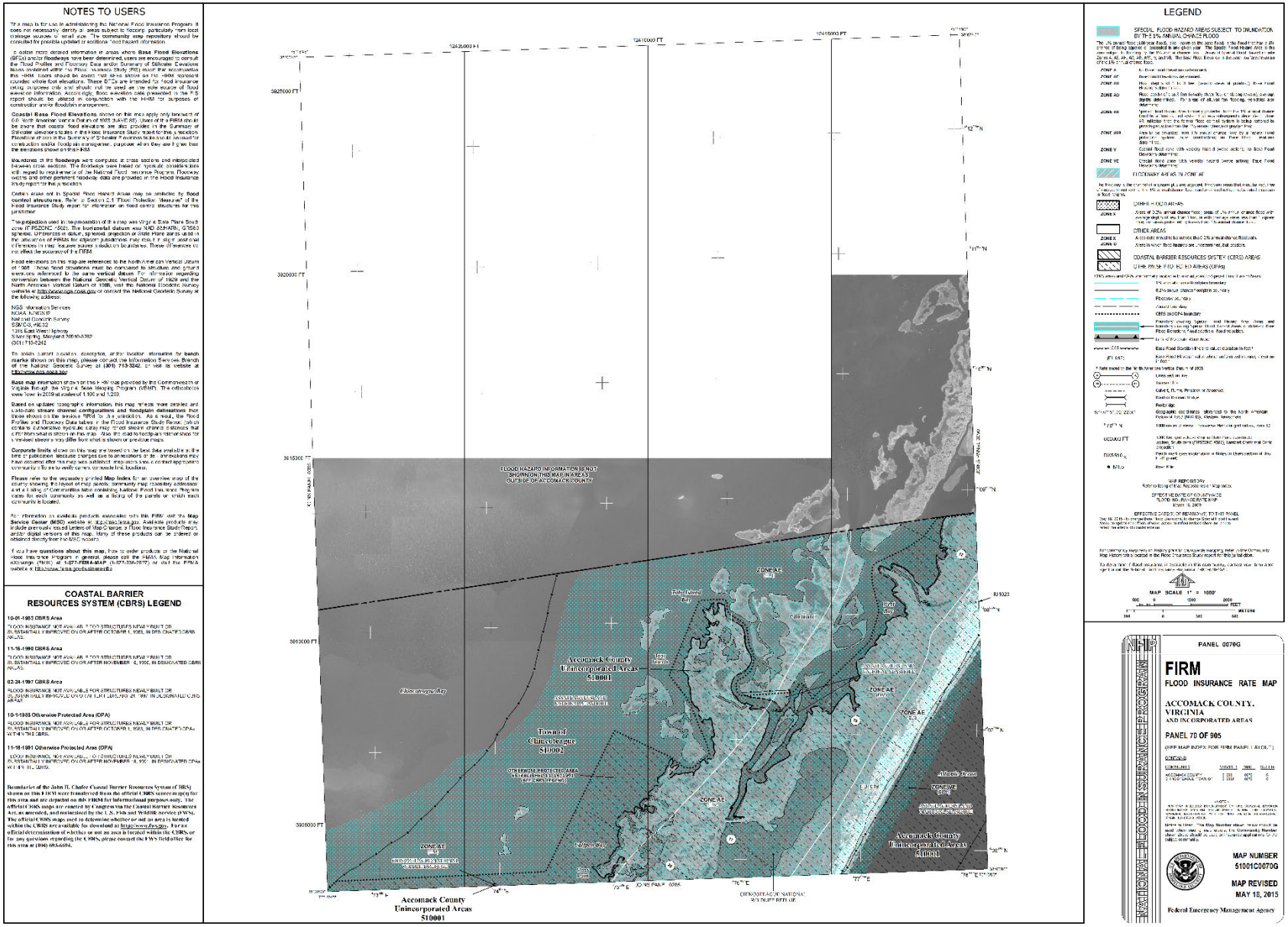
APPENDIX E


NOTES TO USERS
LEGEND
PANEL 0045G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 45 OF 905
MAP NUMBER
51001C0045G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM
ZONE AE
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
Accomack County Unincorporated Areas 510001
Chincoteague Bay

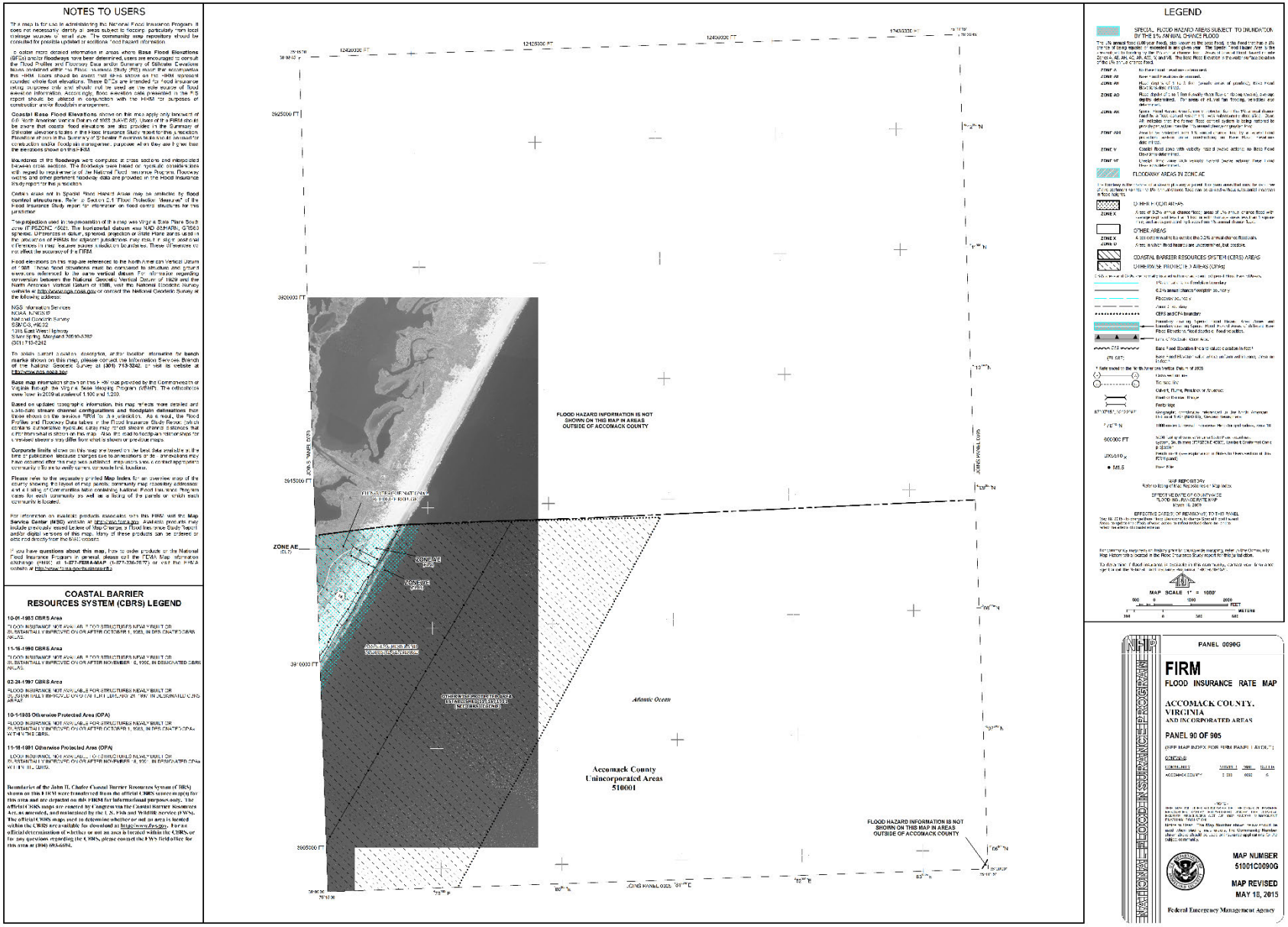
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
Accomack County Unincorporated Areas 510001
Town of Chincoteague 510002
ZONE AE
ZONE VE
OTHERWISE PROTECTED AREA ESTABLISHED 11/16/1991 (SEE CBRS LEGEND)
PANEL 0065G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 65 OF 905
MAP NUMBER 51001C0065G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

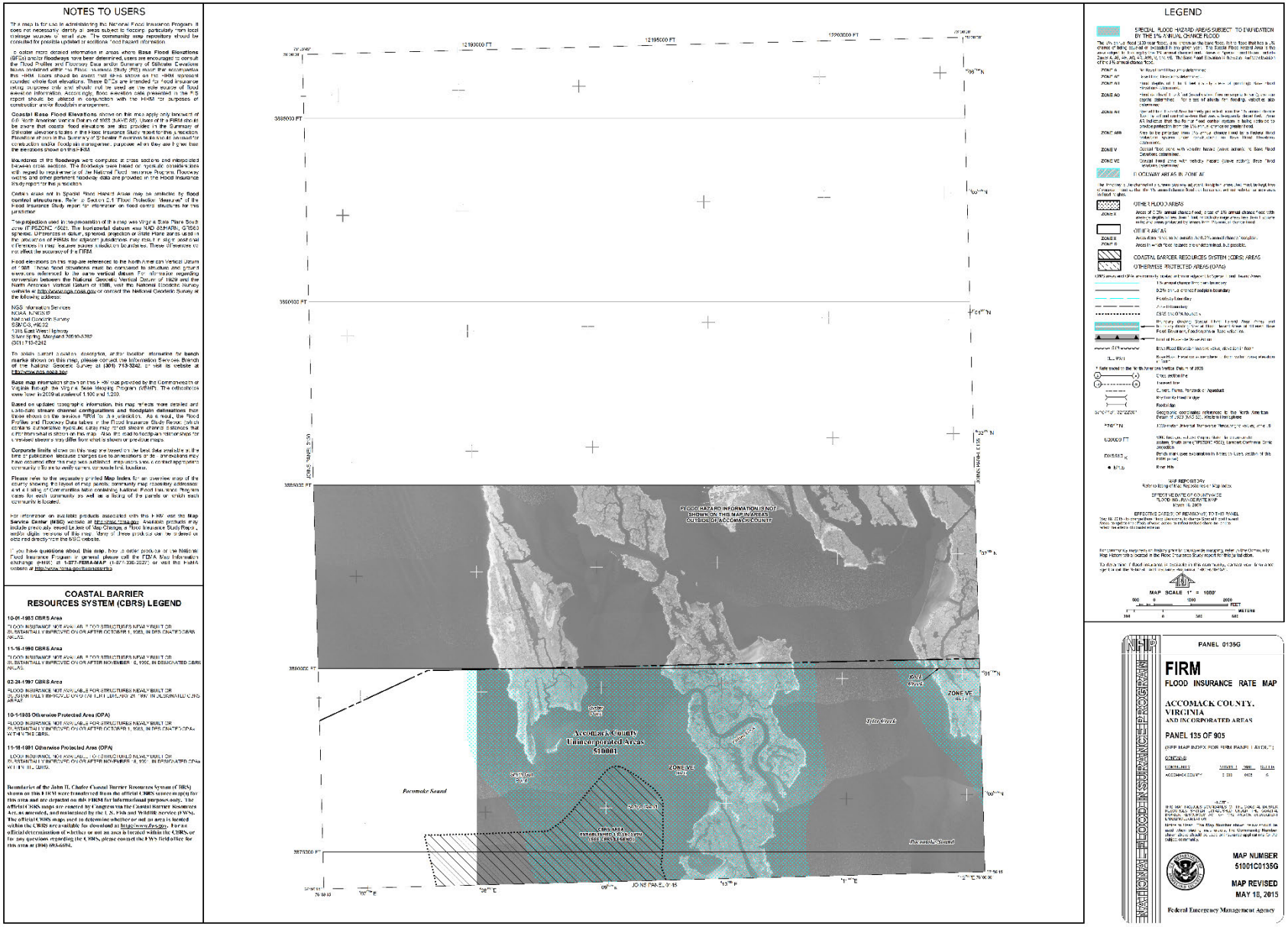
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
Accomack County Unincorporated Areas 510001
Town of Chincoteague 510002
ZONE AE
ZONE VE
PANEL 0070G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 70 OF 905
MAP NUMBER 51001C0070G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

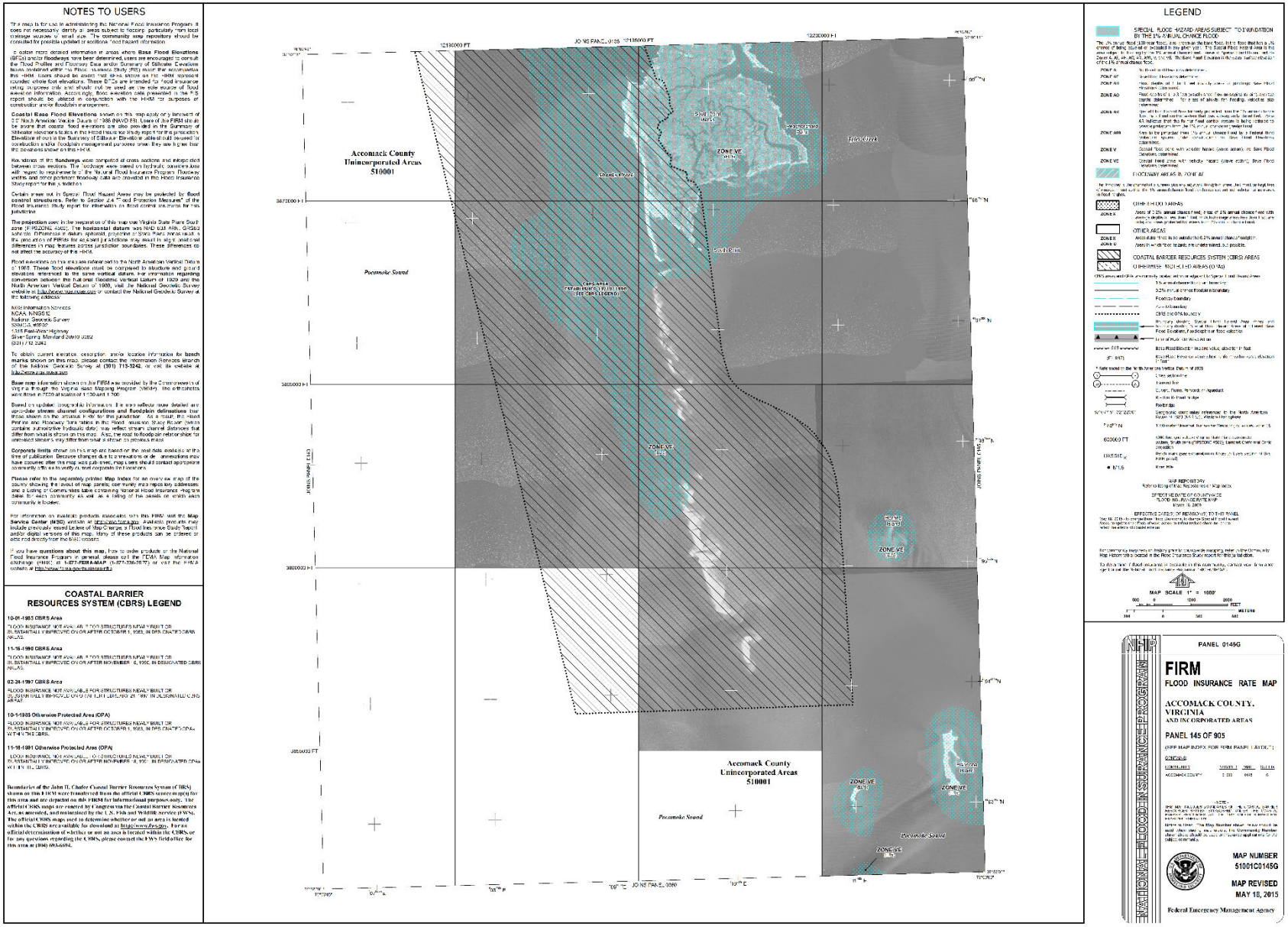
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
ZONE AE
Atlantic Ocean
Accomack County Unincorporated Areas 510001
LEGEND
PANEL 0090G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 90 OF 905
MAP NUMBER 51001C0090G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

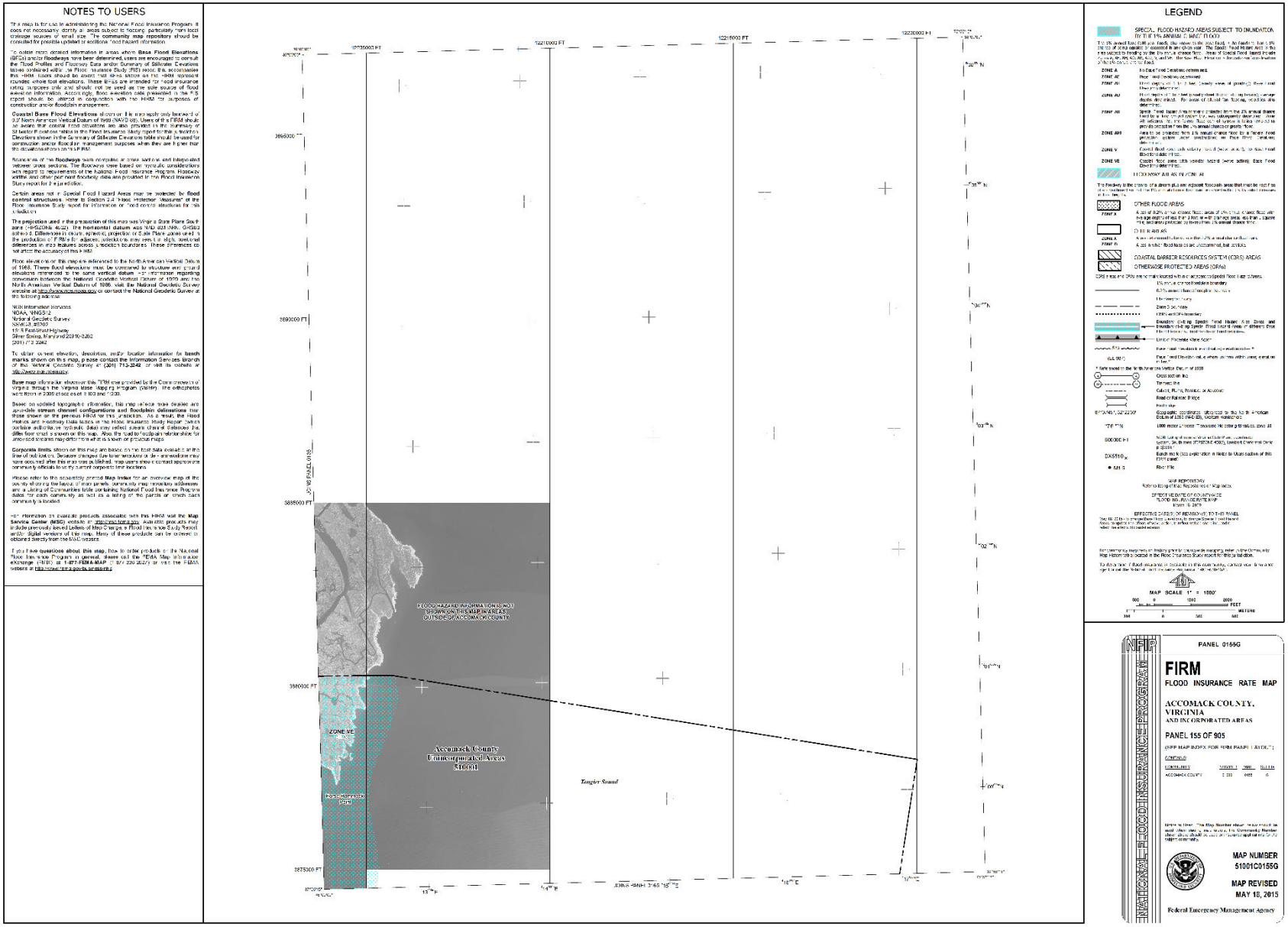
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Accomack County Unincorporated Areas 510001
Pocomoke Sound
ZONE VE
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 135 OF 905
MAP NUMBER 51001C0135G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

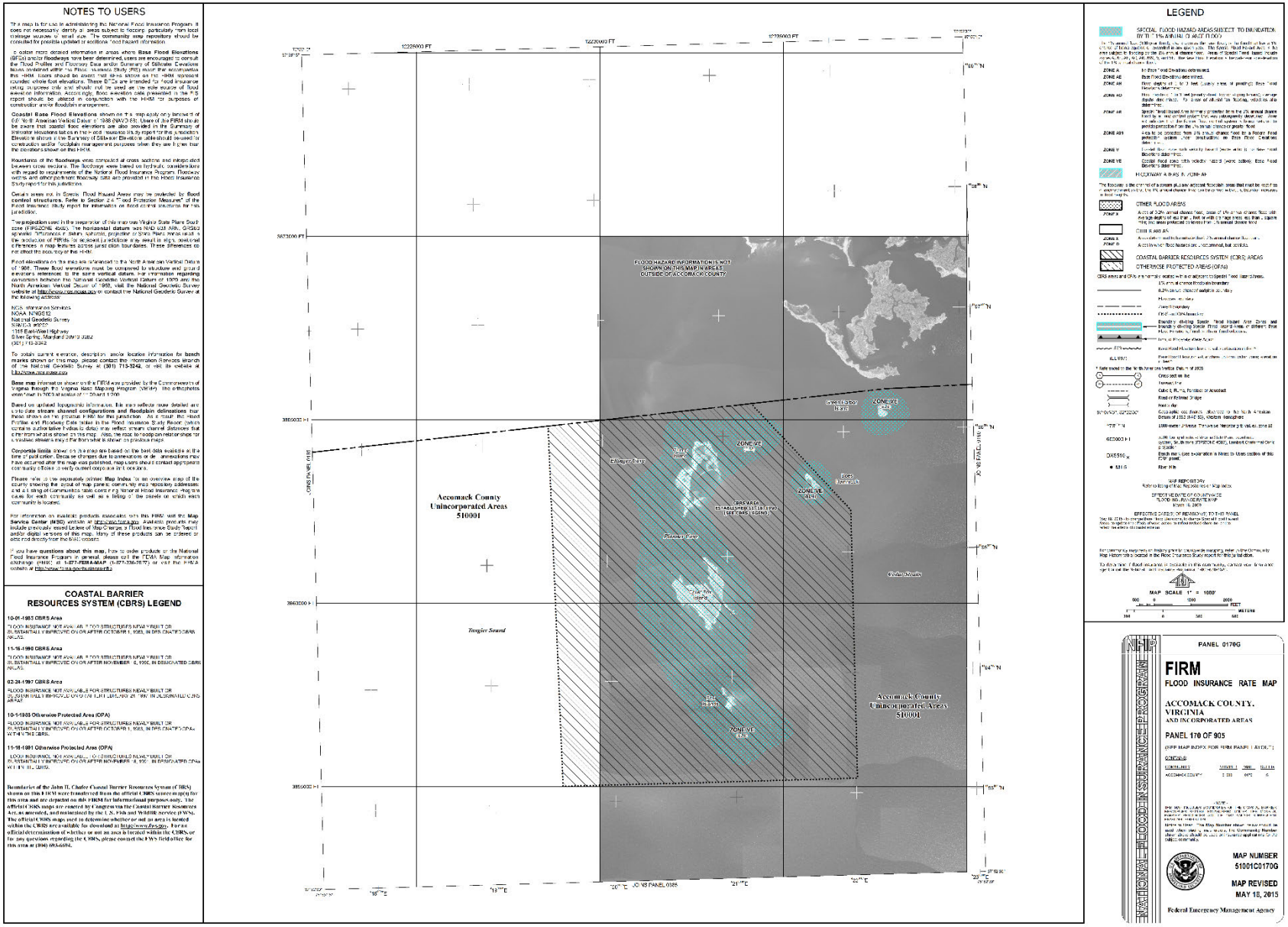
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Accomack County Unincorporated Areas 510001
Pocomoke Sound
LEGEND
MAP SCALE 1" = 1000'
PANEL 0145G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 145 OF 905
MAP NUMBER 51001C0145G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

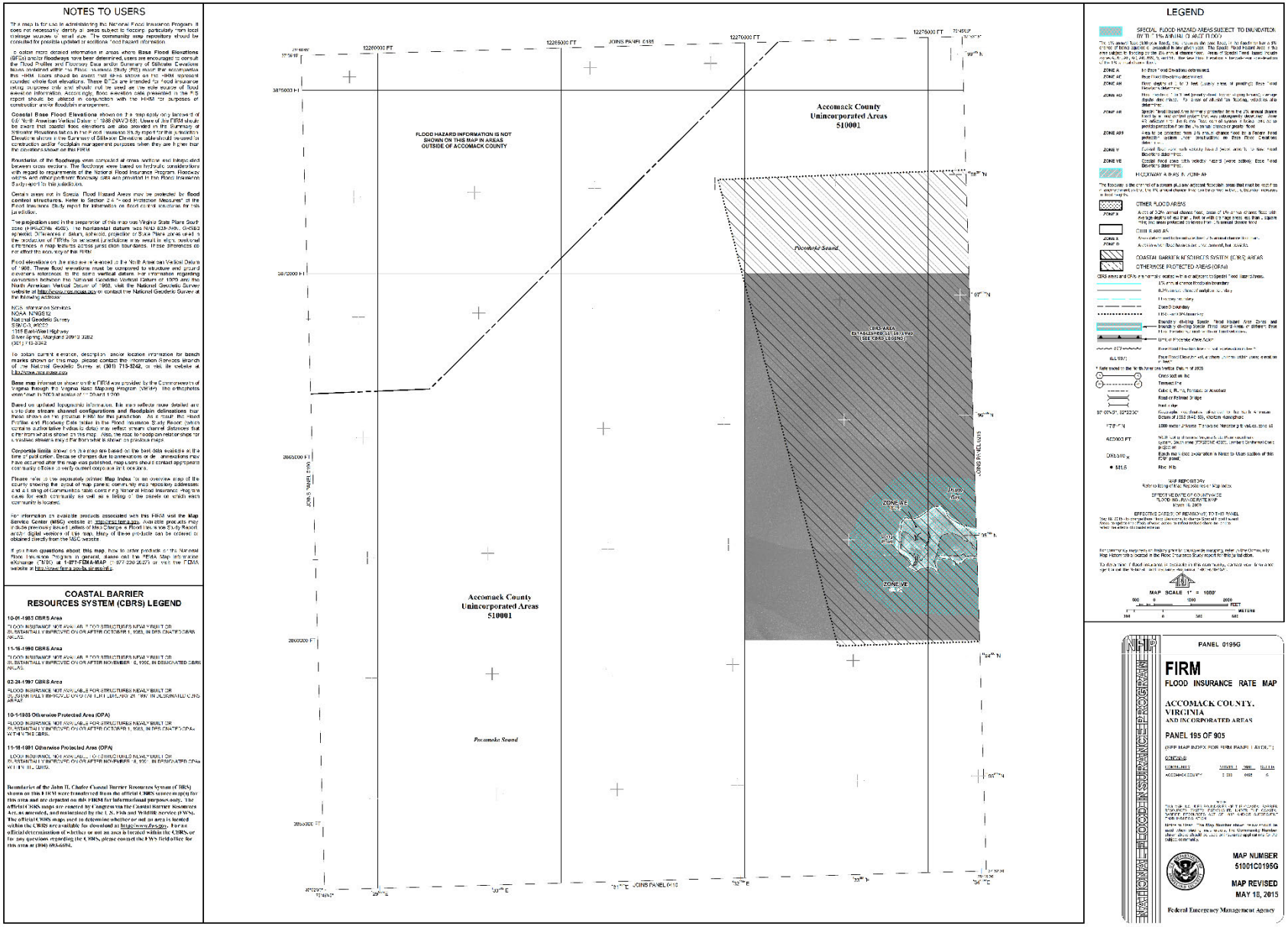
APPENDIX E


NOTES TO USERS
LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP AREAS OUTSIDE OF ACCOMACK COUNTY
ZONE VE
Accomack County Unincorporated Areas 510001
Tangier Sound
PANEL 0155G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 155 OF 905
MAP NUMBER 51001C0155G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

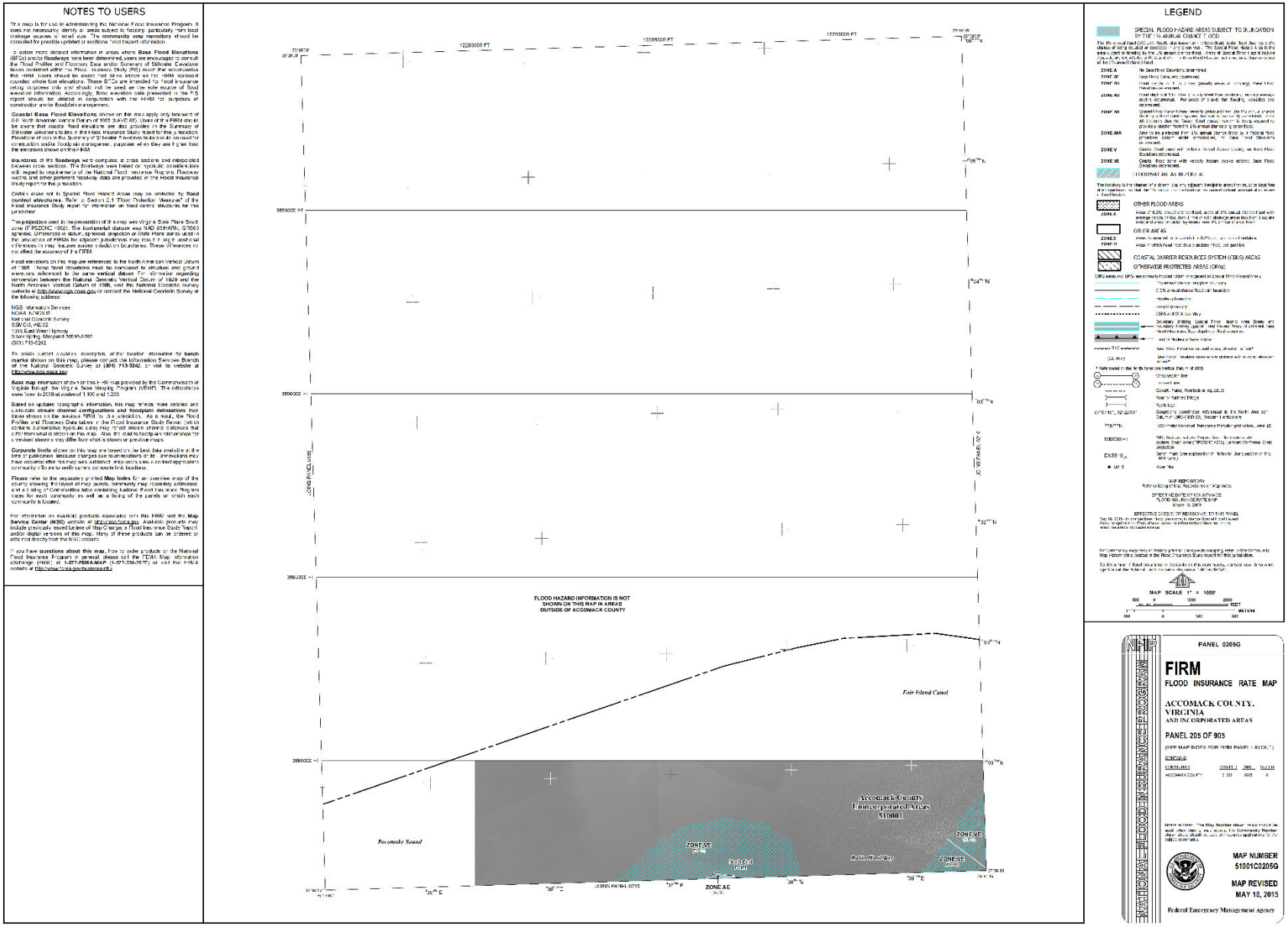
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Accomack County Unincorporated Areas 510001
Tangier Sound
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
ZONE VE
PANEL 0170G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 170 OF 905
MAP NUMBER 51001C0170G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

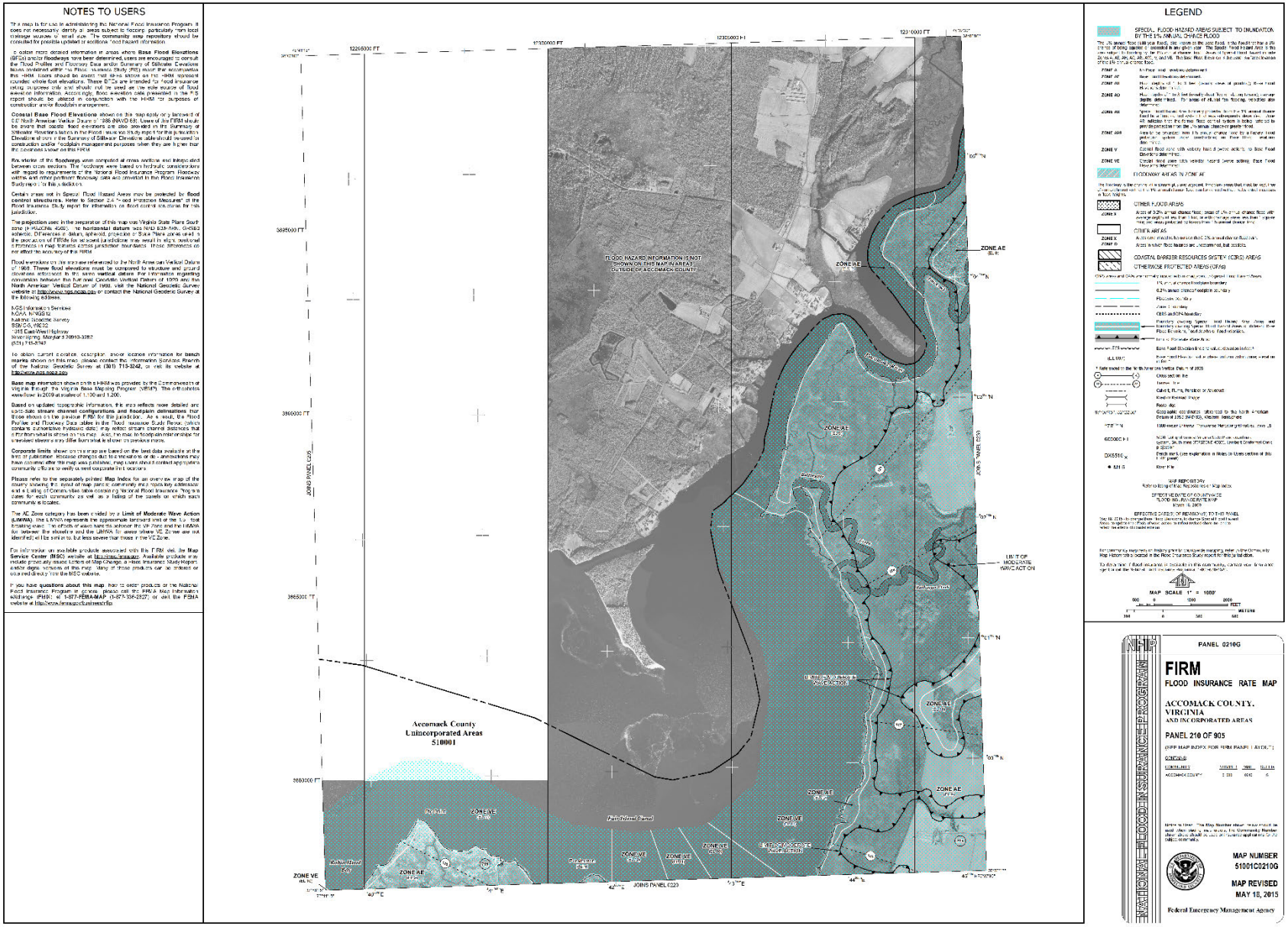
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
Accomack County Unincorporated Areas 510001
Pocomoke Sound
LEGEND
PANEL 0195G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 195 OF 905
MAP NUMBER 51001C0195G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
Fair Island Canal
Accomack County Unincorporated Areas 510001
Pocomoke Sound
ZONE AE
ZONE VE
JOHN PANEL 0215
MAP SCALE 1" = 1000'
PANEL 0205G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 205 OF 905
MAP NUMBER 51001C0205G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
Accomack County
Unincorporated Areas
510001
ZONE AE
ZONE VE
LIMIT OF MODERATE WAVE ACTION
JOINS PANEL 0220
JOINS PANEL 0205
MAP SCALE 1" = 1000'
PANEL 0210G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 210 OF 905
MAP NUMBER
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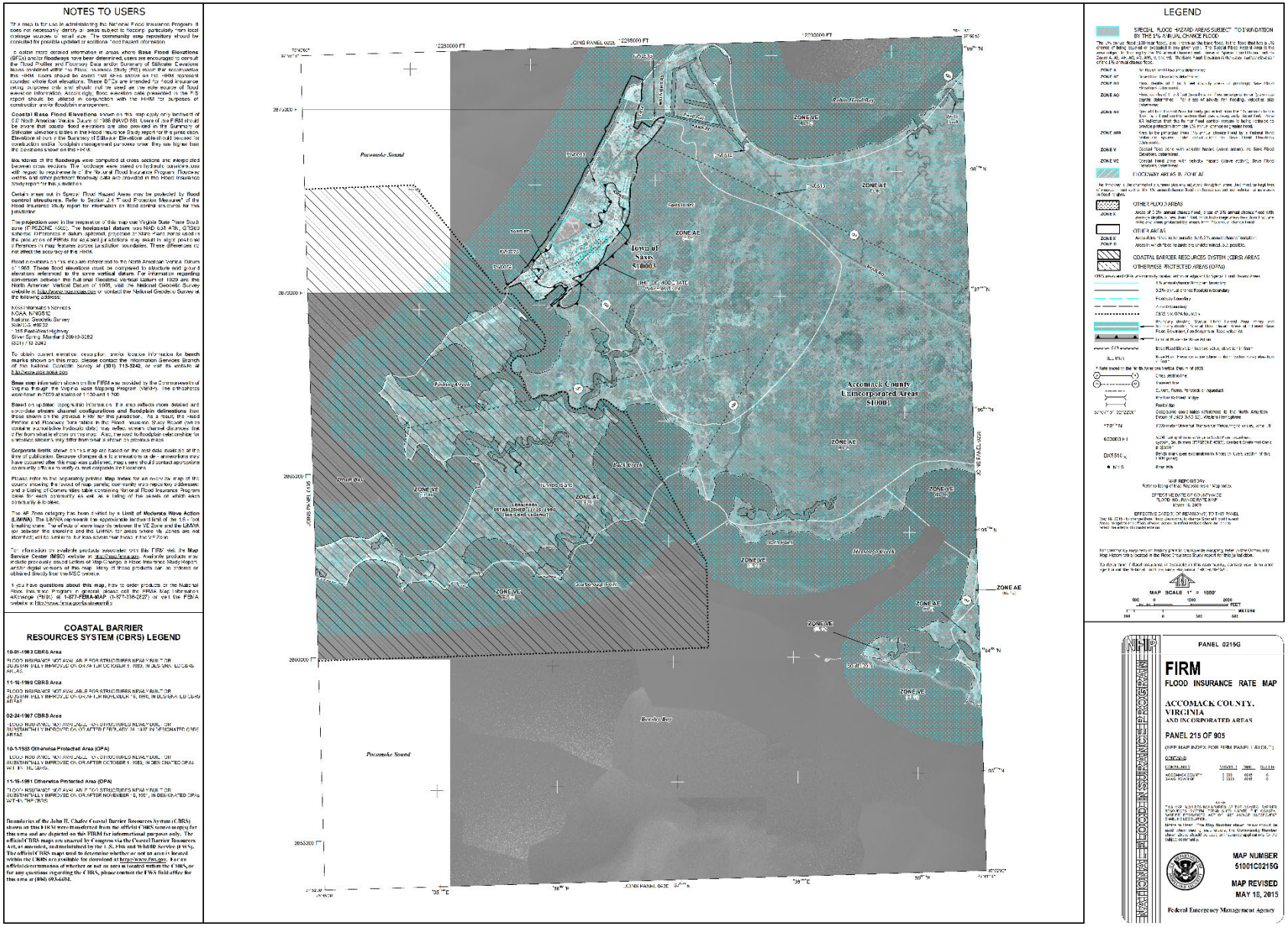
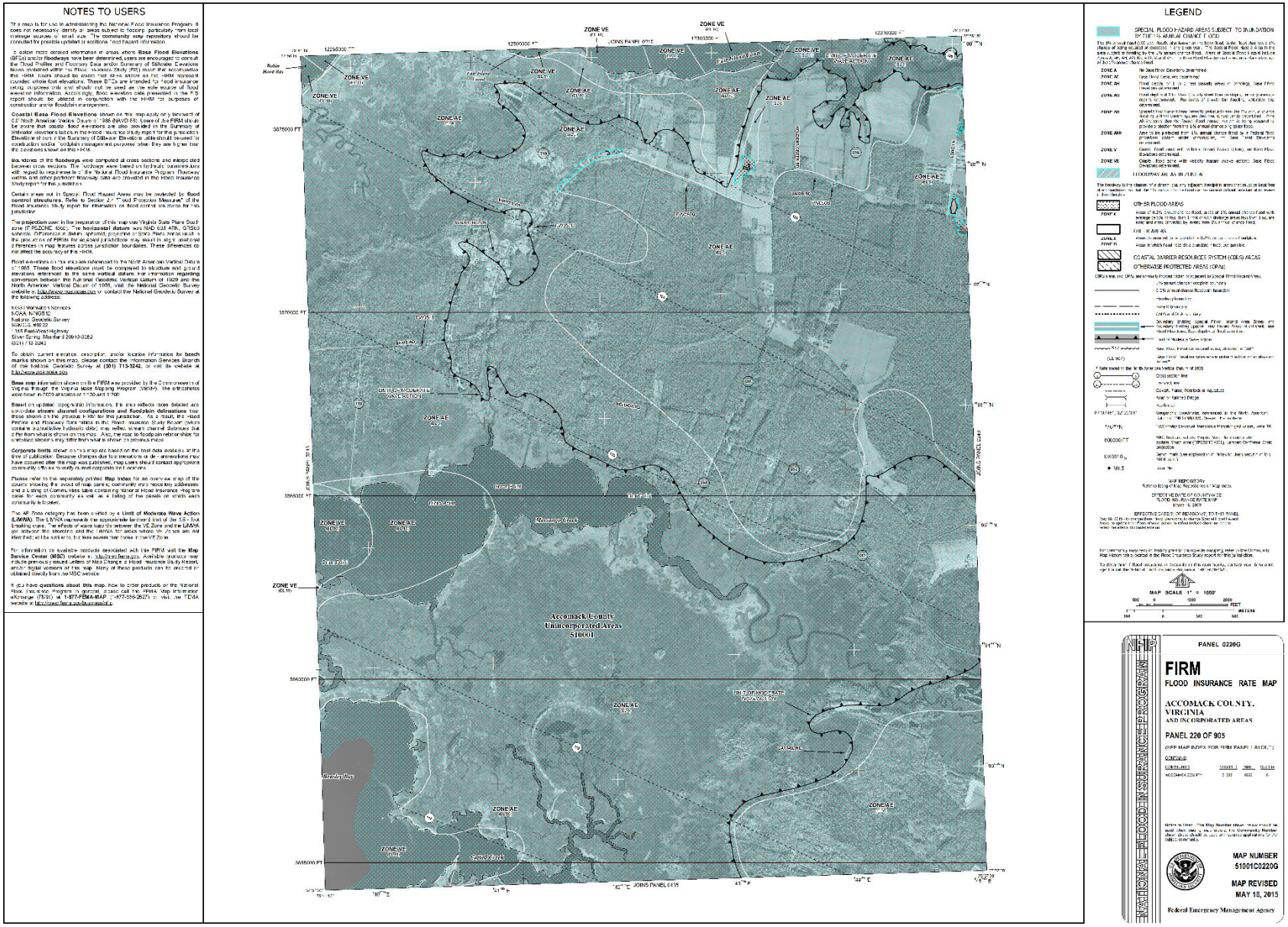
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

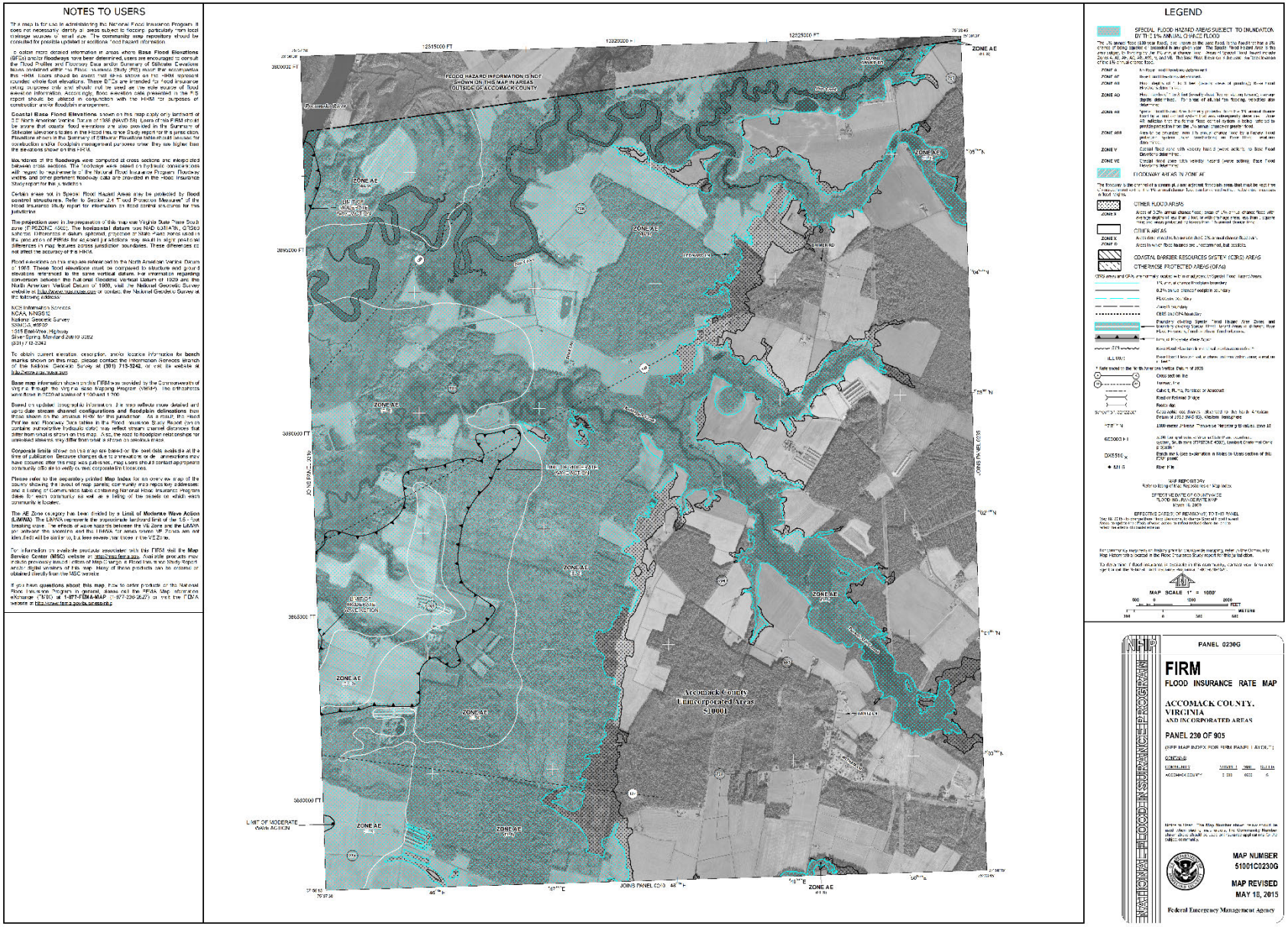
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Pocomoke Sound
Accomack County
Unincorporated Areas
51001
Town of
Nassa
51000
ZONE AE
ZONE VE
PANEL 0215G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY,
VIRGINIA
AND INCORPORATED AREAS
PANEL 215 OF 905
MAP NUMBER
51001C0215G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

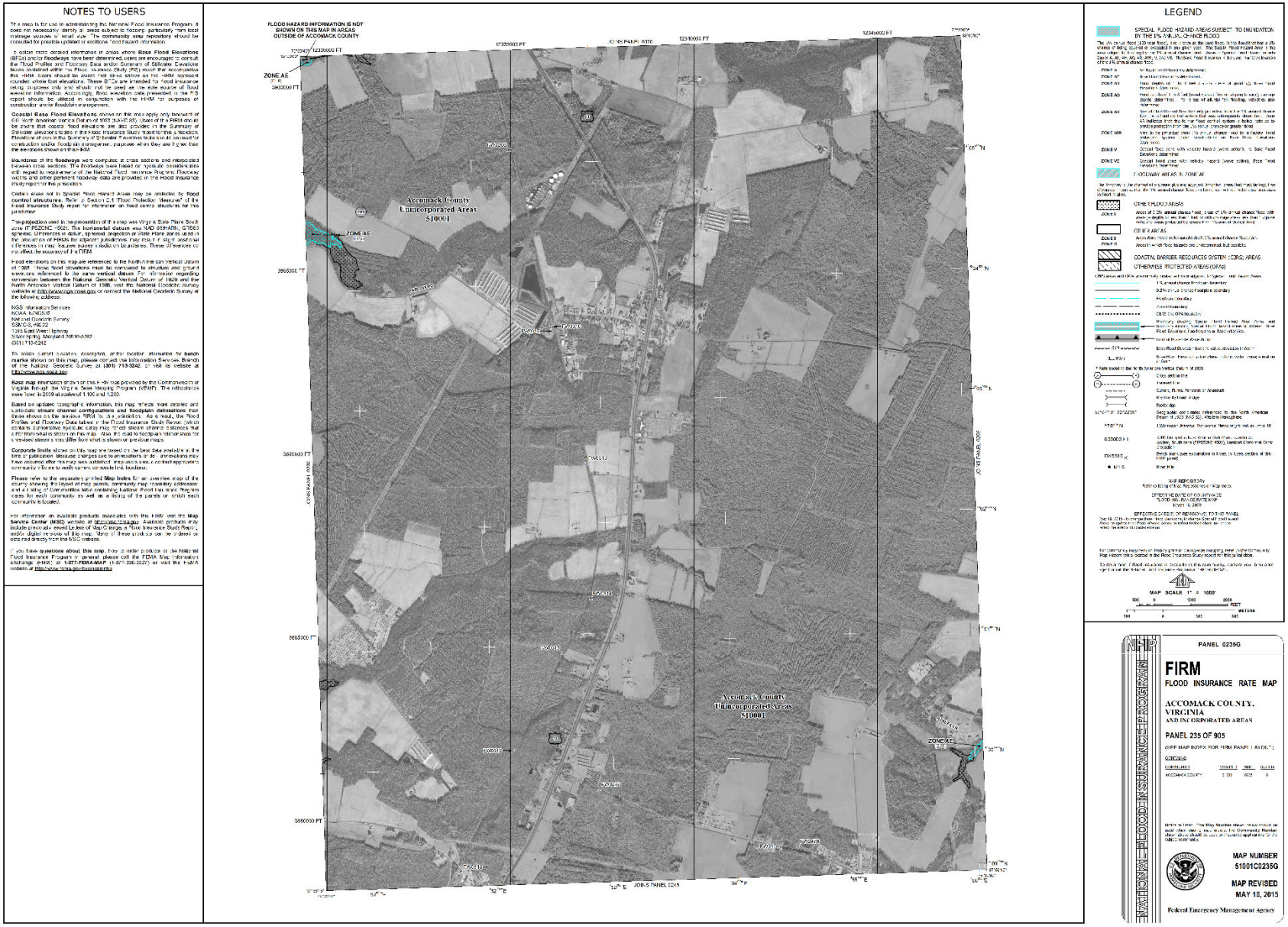
APPENDIX E


NOTES TO USERS
LEGEND
PANEL 0220G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 220 OF 905
MAP NUMBER
51001C0220G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
Accomack County
Unincorporated Areas
510001
ZONE VE
ZONE AE
JOINS PANEL 0215
JOINS PANEL 0435
JOINS PANEL 0440

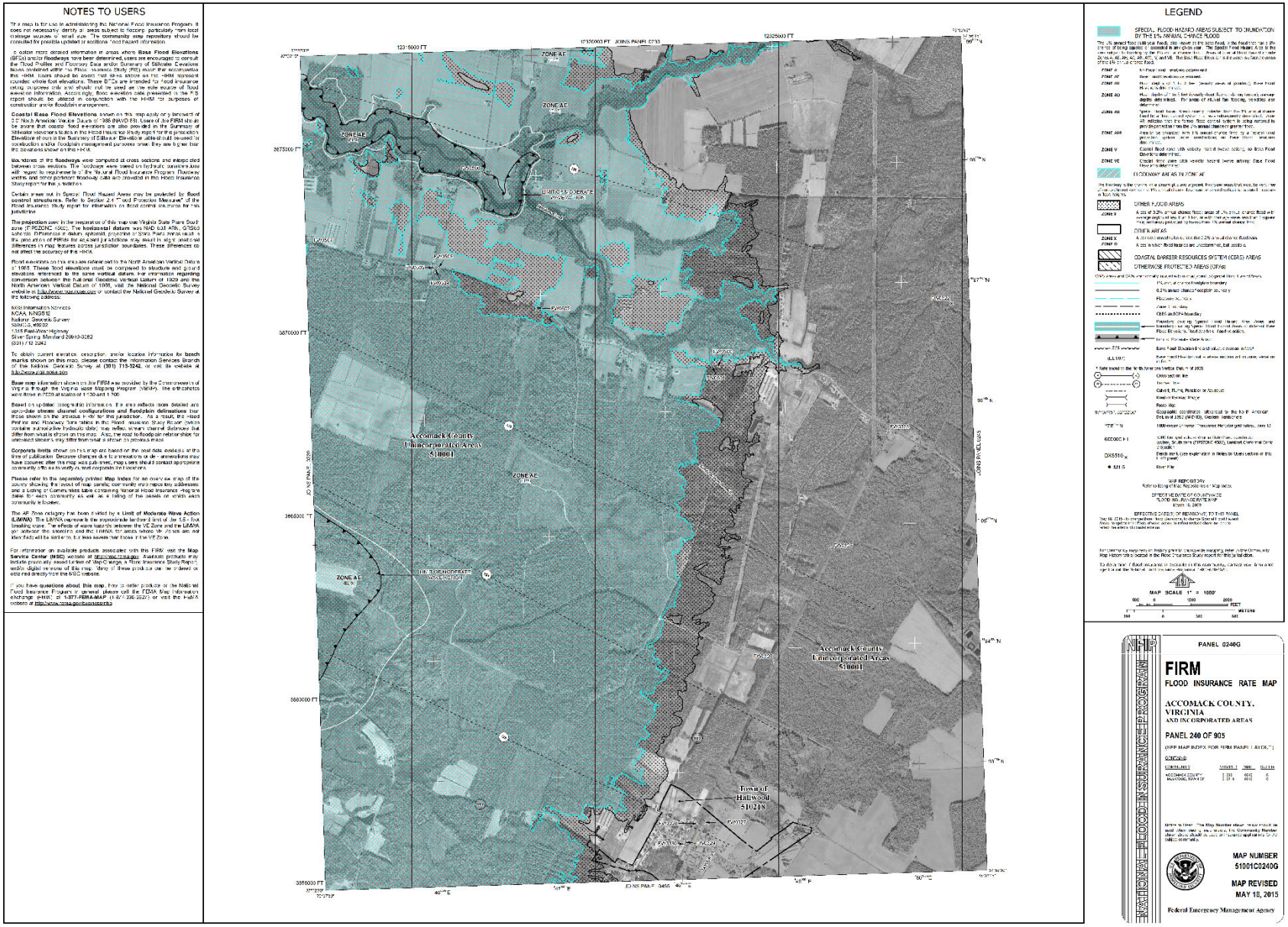
APPENDIX E


NOTES TO USERS
LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
ZONE AE
Accomack County Unincorporated Areas 510001
LIMIT OF MODERATE WAVE ACTION
JOINS PANEL 0210
JOINS PANEL 0230
PANEL 0230G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 230 OF 905
MAP NUMBER 51001C0230G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX E


NOTES TO USERS
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
ZONE AE
Accomack County Unincorporated Areas 510001
LEGEND
MAP SCALE 1" = 1000'
PANEL 0235G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 235 OF 905
MAP NUMBER 51001C0235G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX E


NOTES TO USERS
LEGEND
Accomack County
Unincorporated Areas
510001
Town of
Hallwood
510218
ZONE AE
ZONE X
PANEL 0240G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY,
VIRGINIA
AND INCORPORATED AREAS
PANEL 240 OF 905
MAP NUMBER
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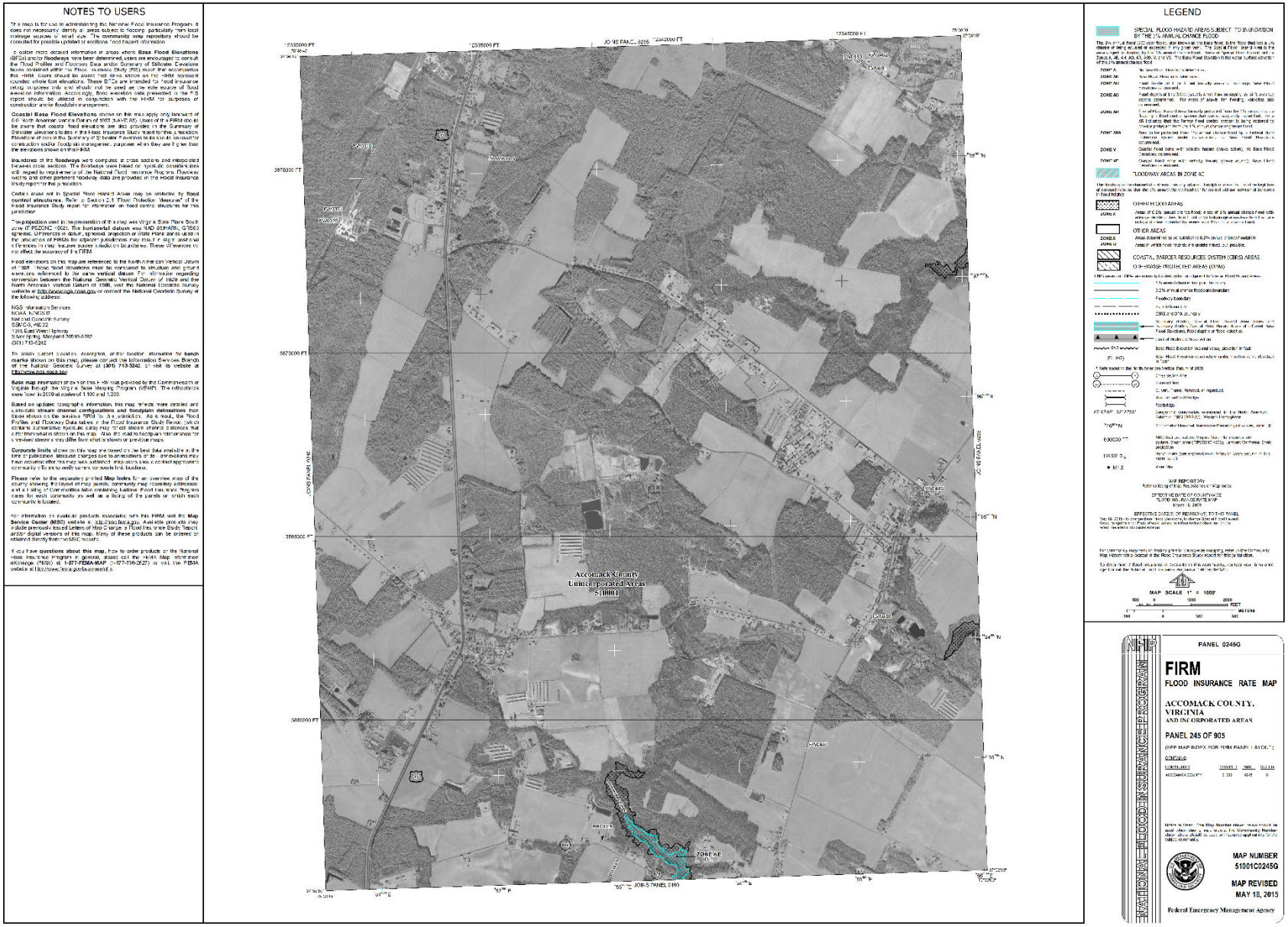
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX E


NOTES TO USERS
LEGEND
Accomack County
Unincorporated Areas
510001
ZONE AE
PANEL 0245G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 245 OF 905
MAP NUMBER
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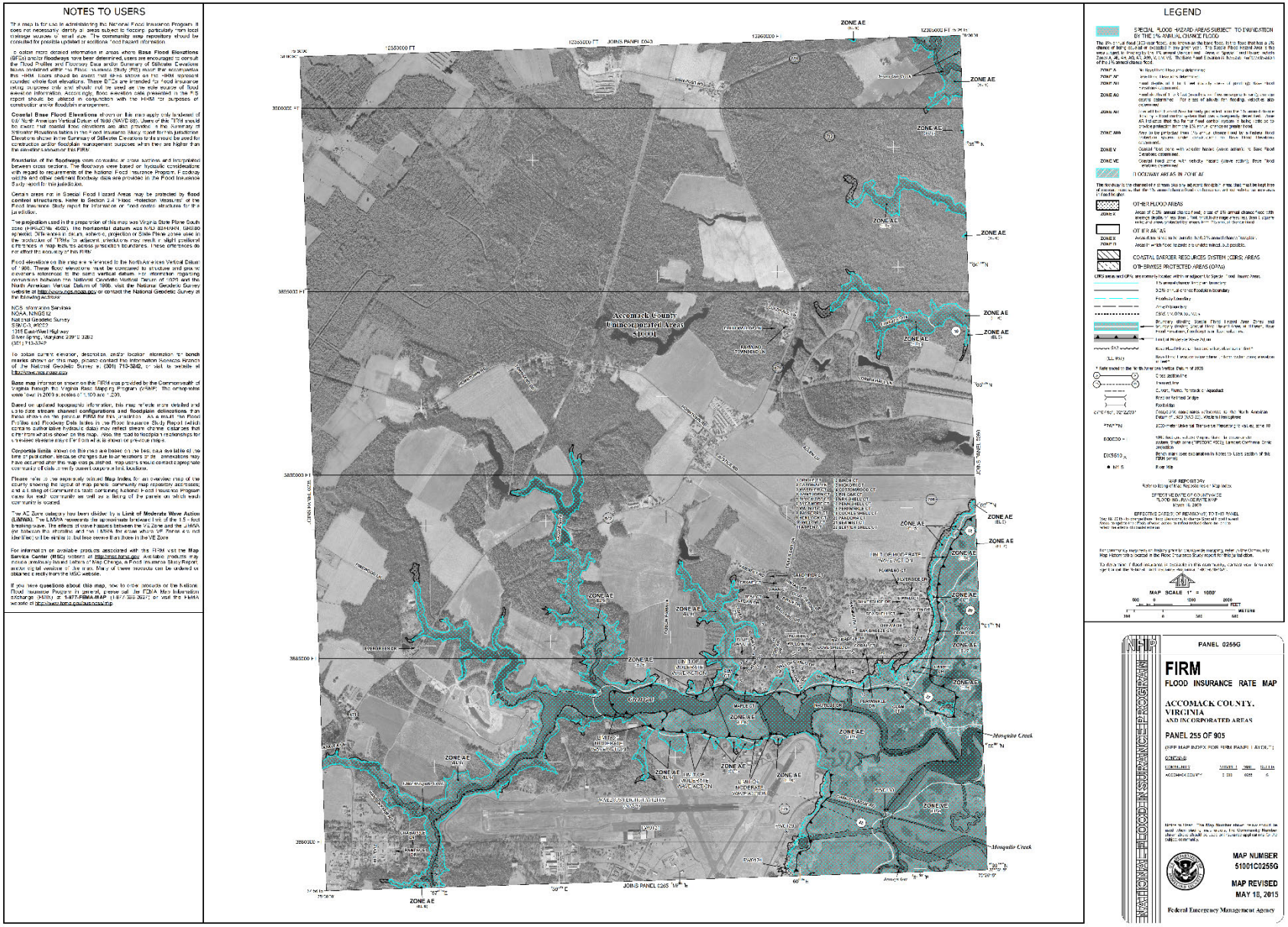
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
LEGEND
Accomack County
Unincorporated Areas
510001
ZONE AE
ZONE VE
Mongoite Creek
PANEL 0255G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 255 OF 905
MAP NUMBER
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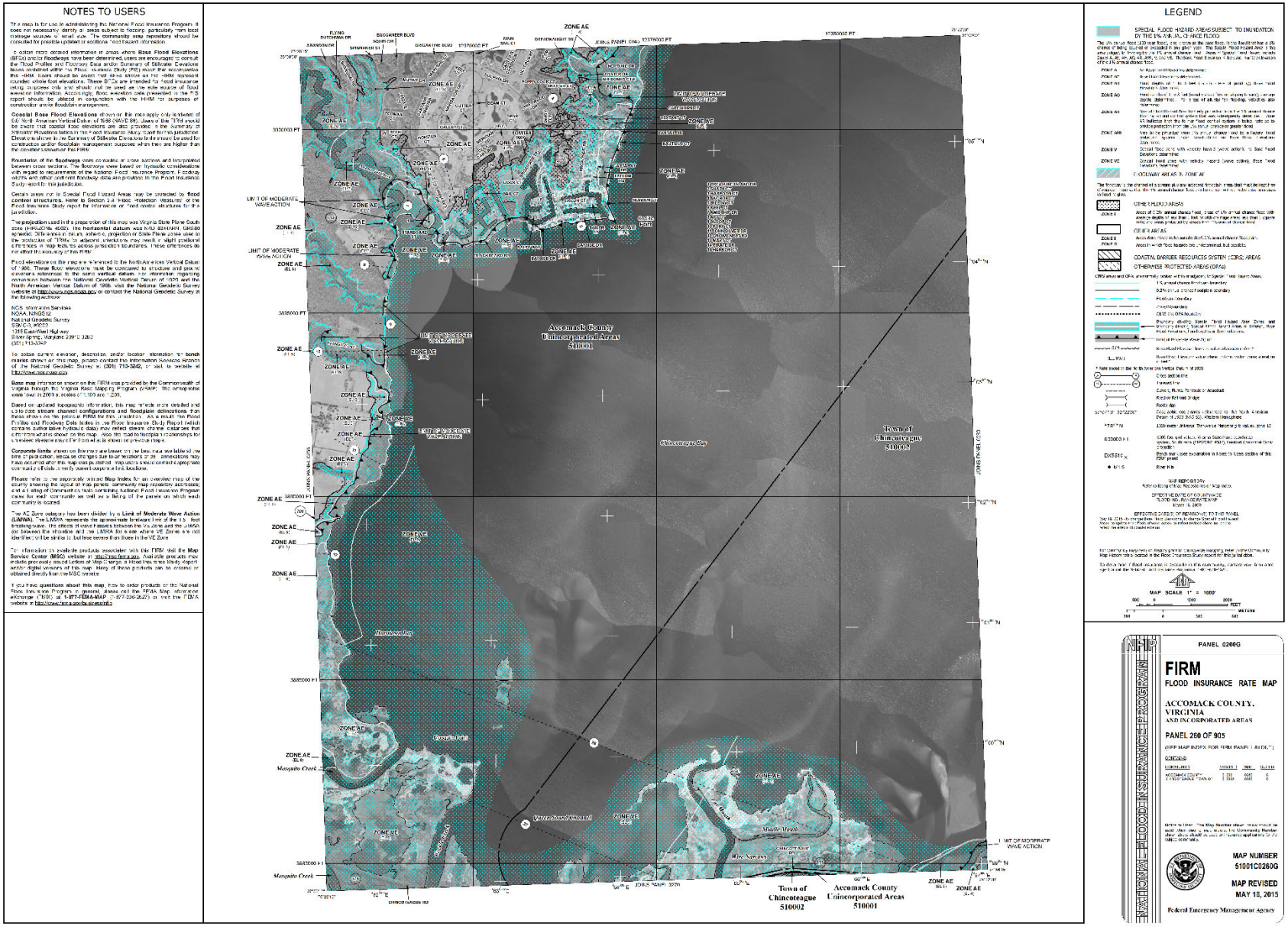
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
LEGEND
PANEL 0260G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 260 OF 905
MAP NUMBER
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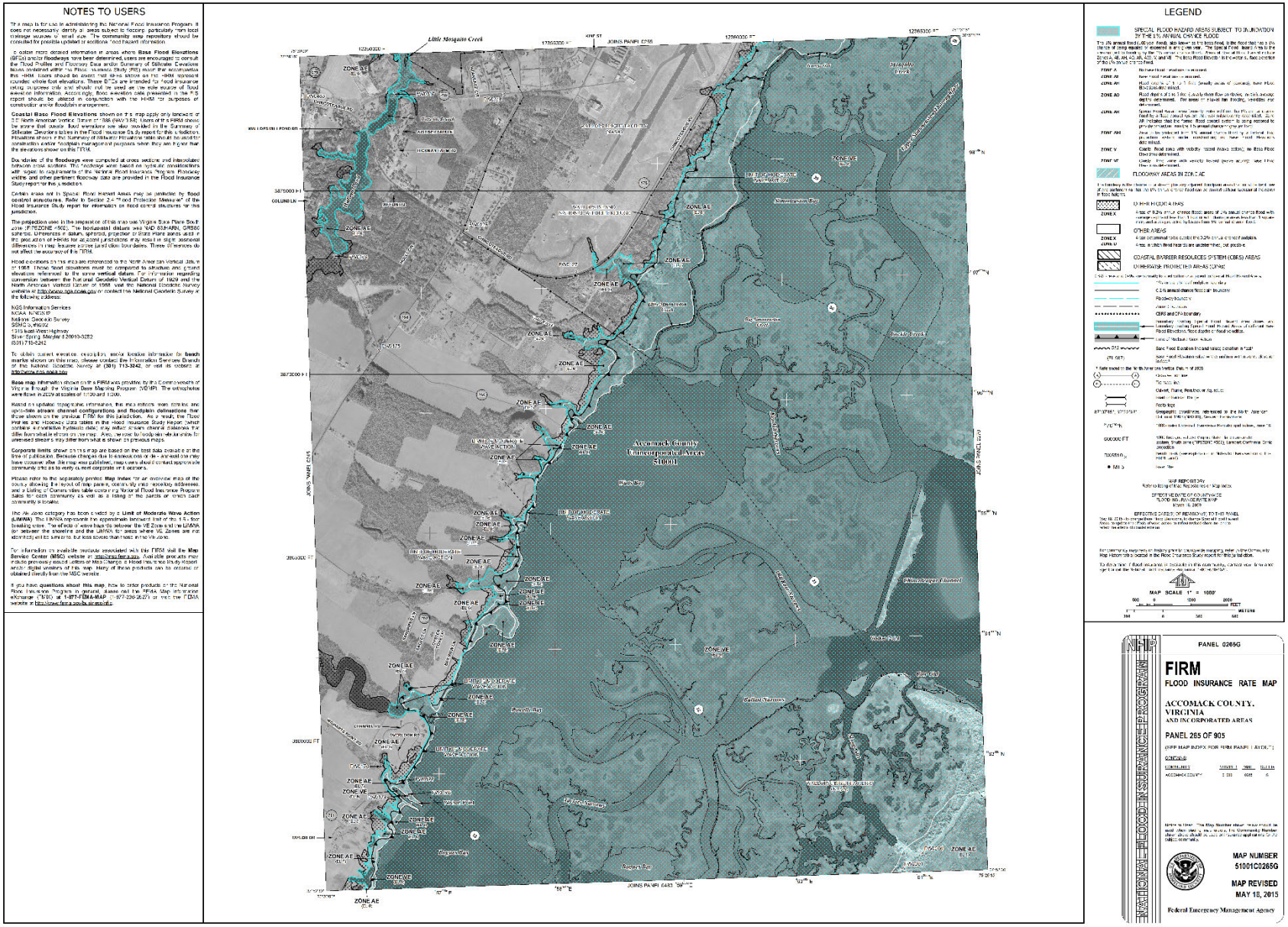
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
Accomack County Unincorporated Areas 510001
Town of Chincoteague 510002
ZONE AE
LIMIT OF MODERATE WAVE ACTION
Mosquito Creek

APPENDIX E


NOTES TO USERS
LEGEND
Accomack County
Unincorporated Areas
510001
PANEL 0265G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 265 OF 905
MAP NUMBER
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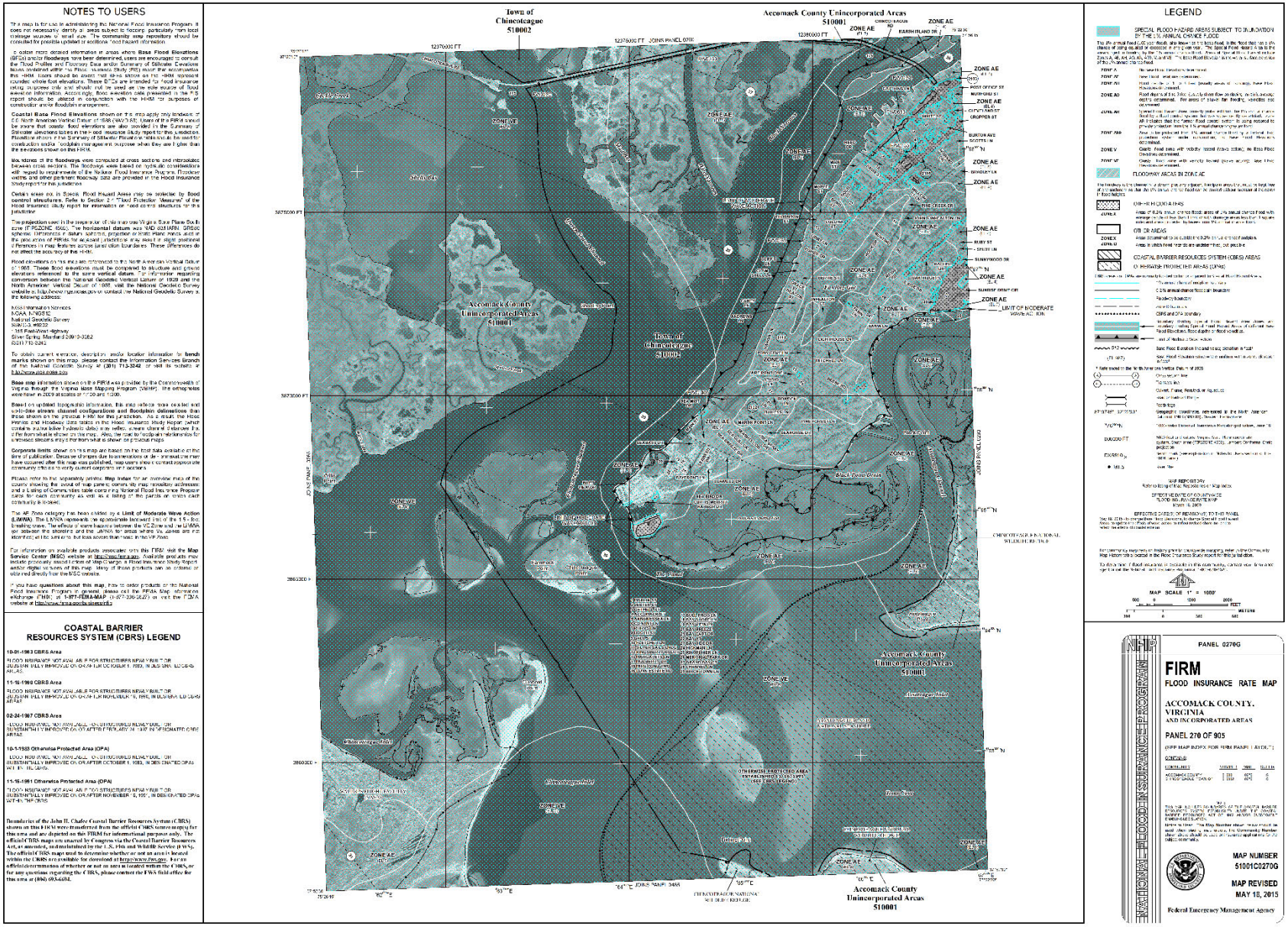
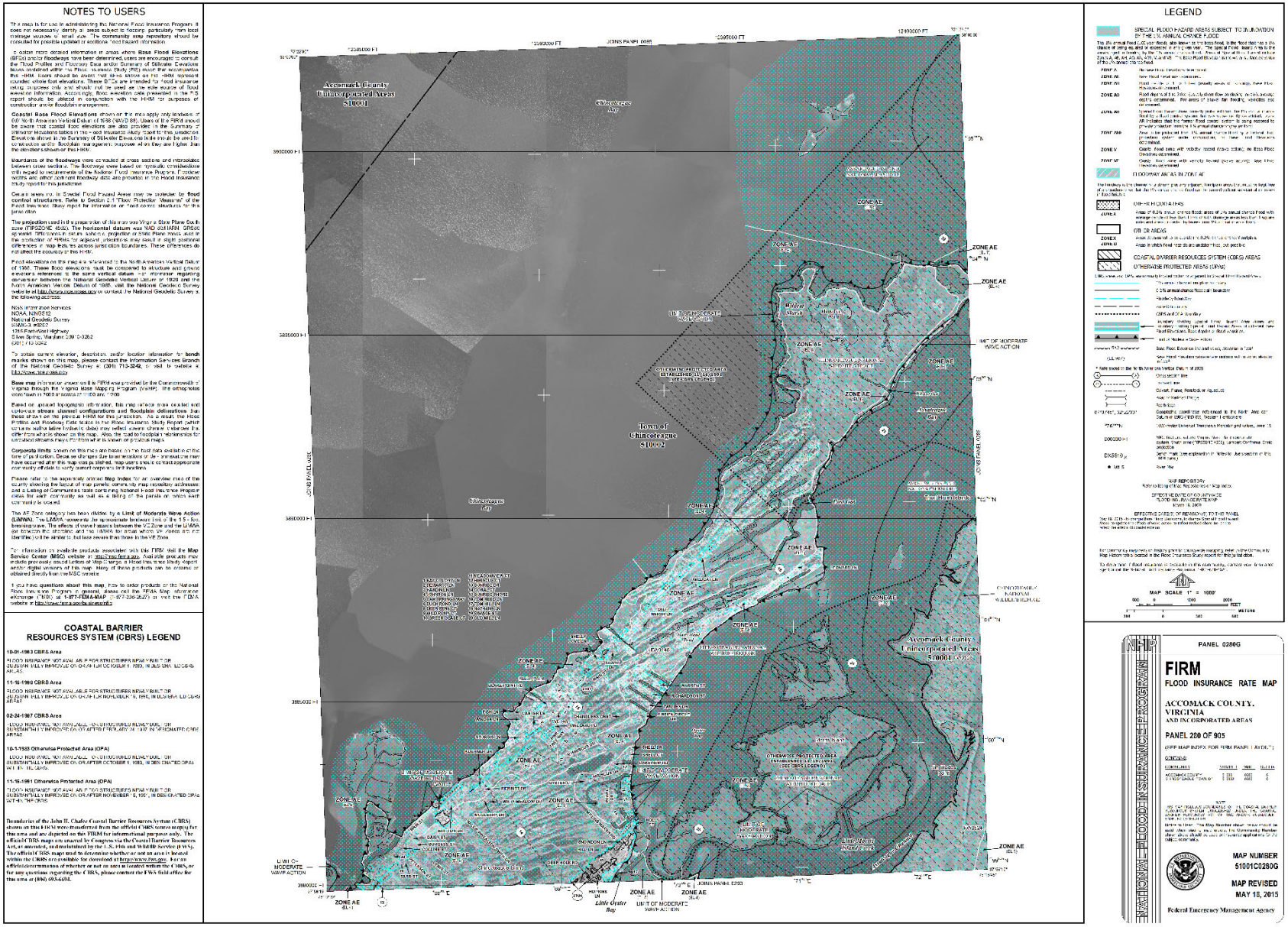
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

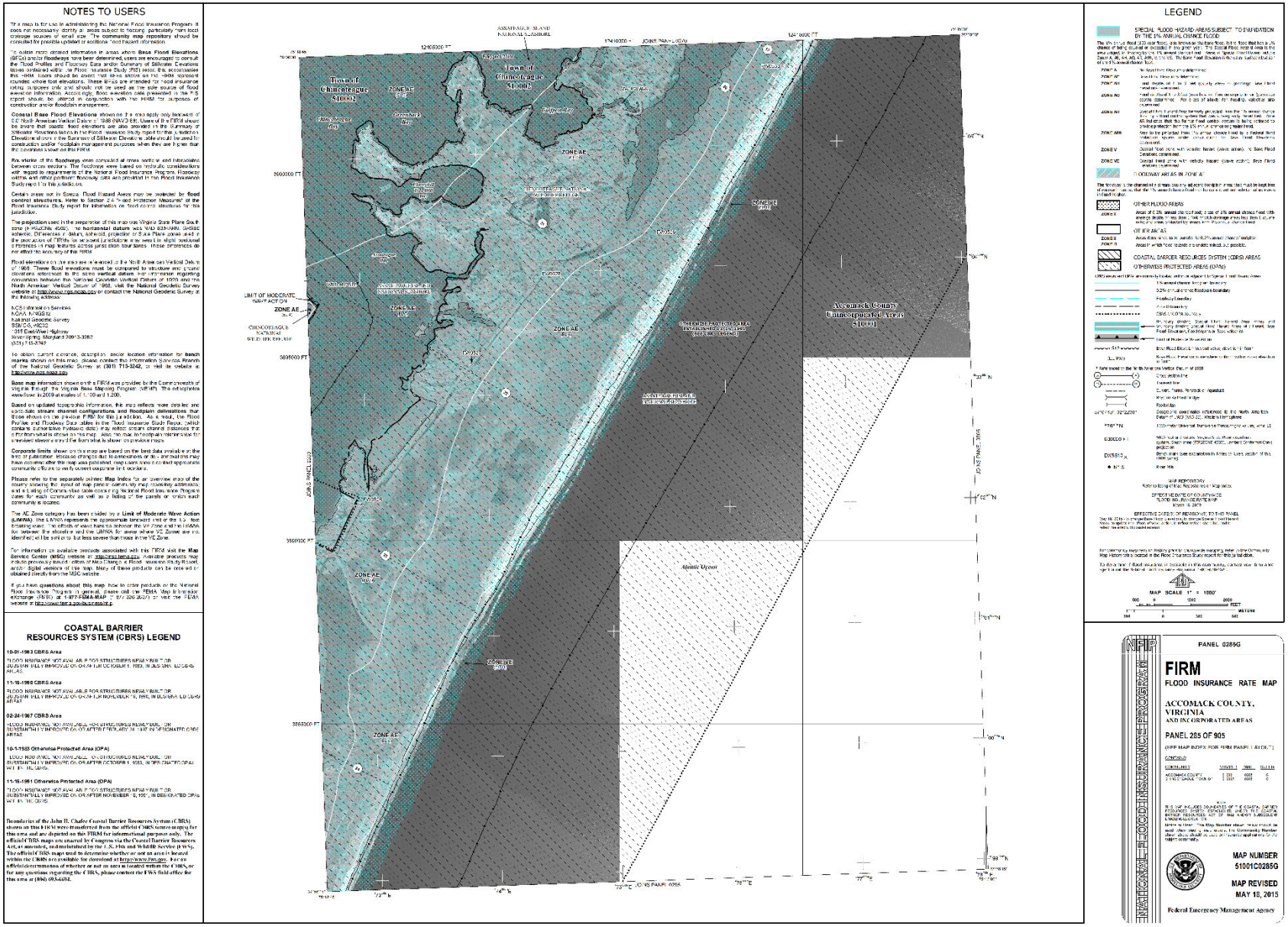
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Town of Chincoteague 510002
Accomack County Unincorporated Areas 510001
LEGEND
PANEL 0270G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 270 OF 905
MAP NUMBER 51001C0270G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Accomack County Unincorporated Areas 510001
Town of Chincoteague 510002
LEGEND
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 280 OF 905
MAP NUMBER 51001C0280G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Town of Chincoteague 510002
Accomack County Unincorporated Areas 510001
Atlantic Ocean
LEGEND
PANEL 0285G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 285 OF 905
MAP NUMBER
51001C0285G
MAP REVISED
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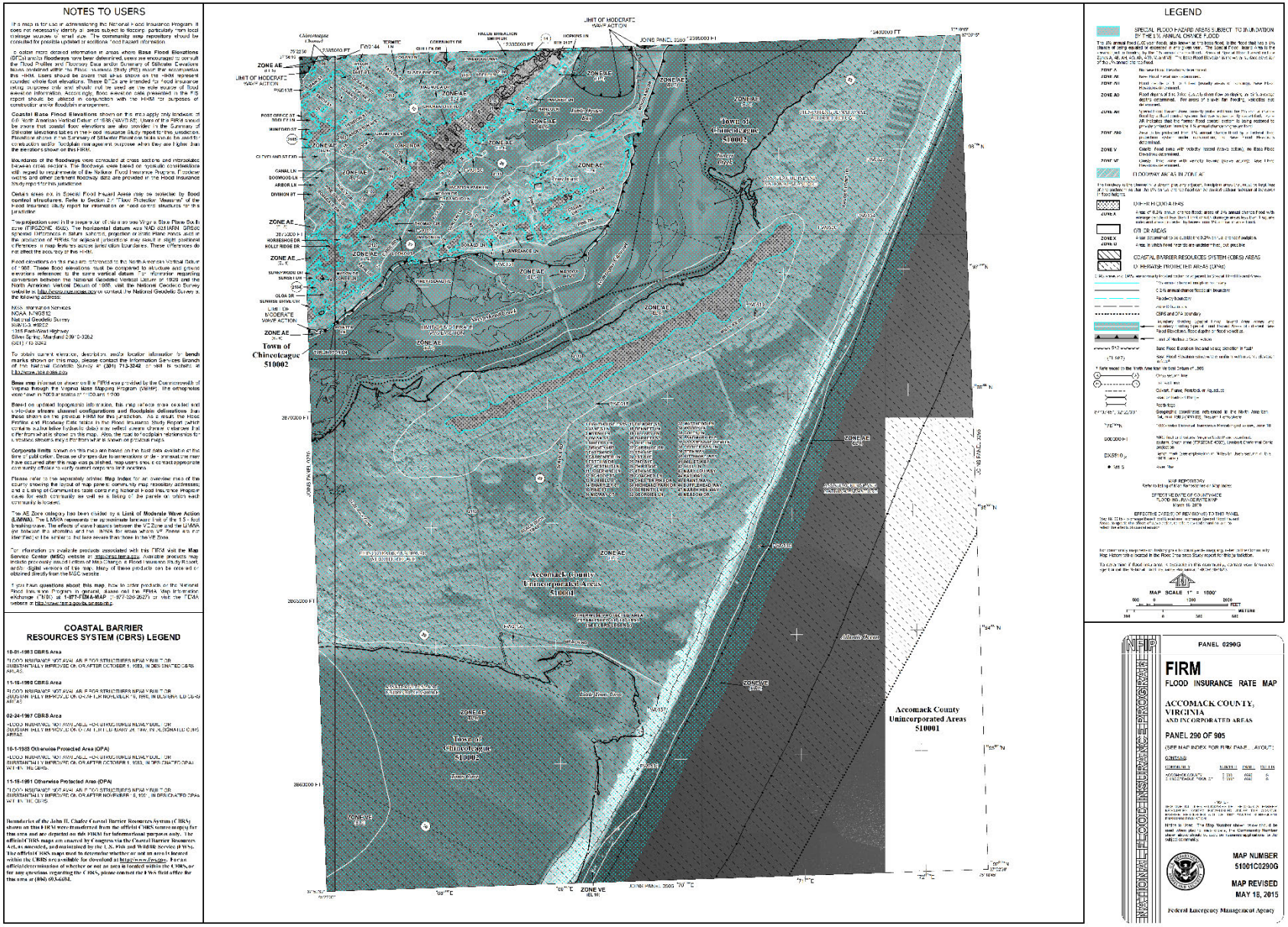
NOTES TO USERS
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LEGEND
Town of Chincoteague 510002
Accomack County Unincorporated Areas 510001
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ZONE VE
LIMIT OF MODERATE WAVE ACTION
JONES PANEL 2280
PANEL 0290G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 290 OF 905
MAP NUMBER
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MAP REVISED
MAY 18, 2015
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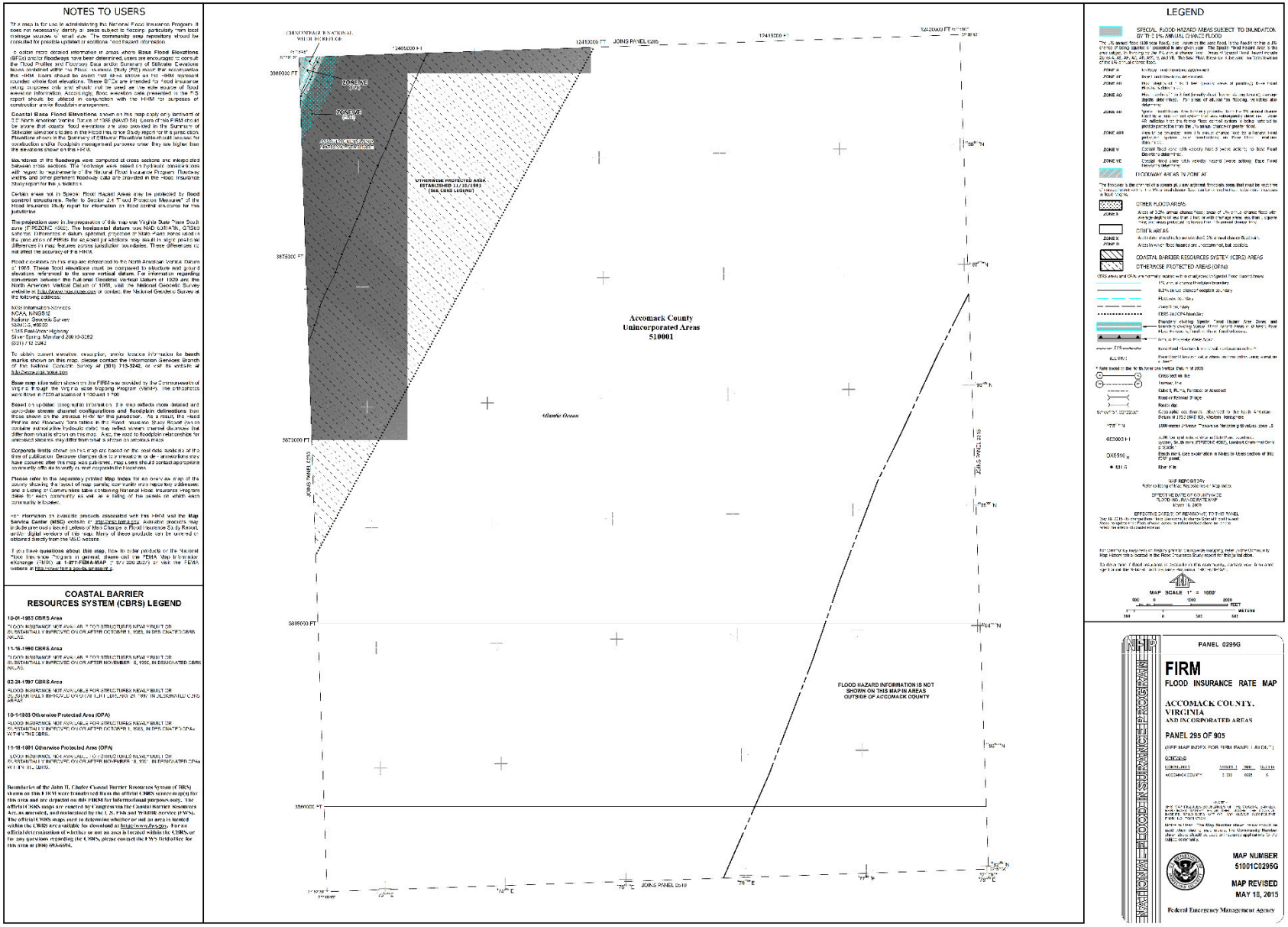
NOTES TO USERS
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JOINS PANEL 0295
JOINS PANEL 0310
ZONE AE
ZONE VE
OTHERWISE PROTECTED AREA
Accomack County
Unincorporated Areas
510001
Atlantic Ocean
FLOOD HAZARD INFORMATION IS NOT
SHOWN ON THIS MAP IN AREAS
OUTSIDE OF ACCOMACK COUNTY
LEGEND
MAP SCALE 1" = 1000'
PANEL 0295G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY,
VIRGINIA
AND INCORPORATED AREAS
PANEL 295 OF 905
MAP NUMBER
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MAP REVISED
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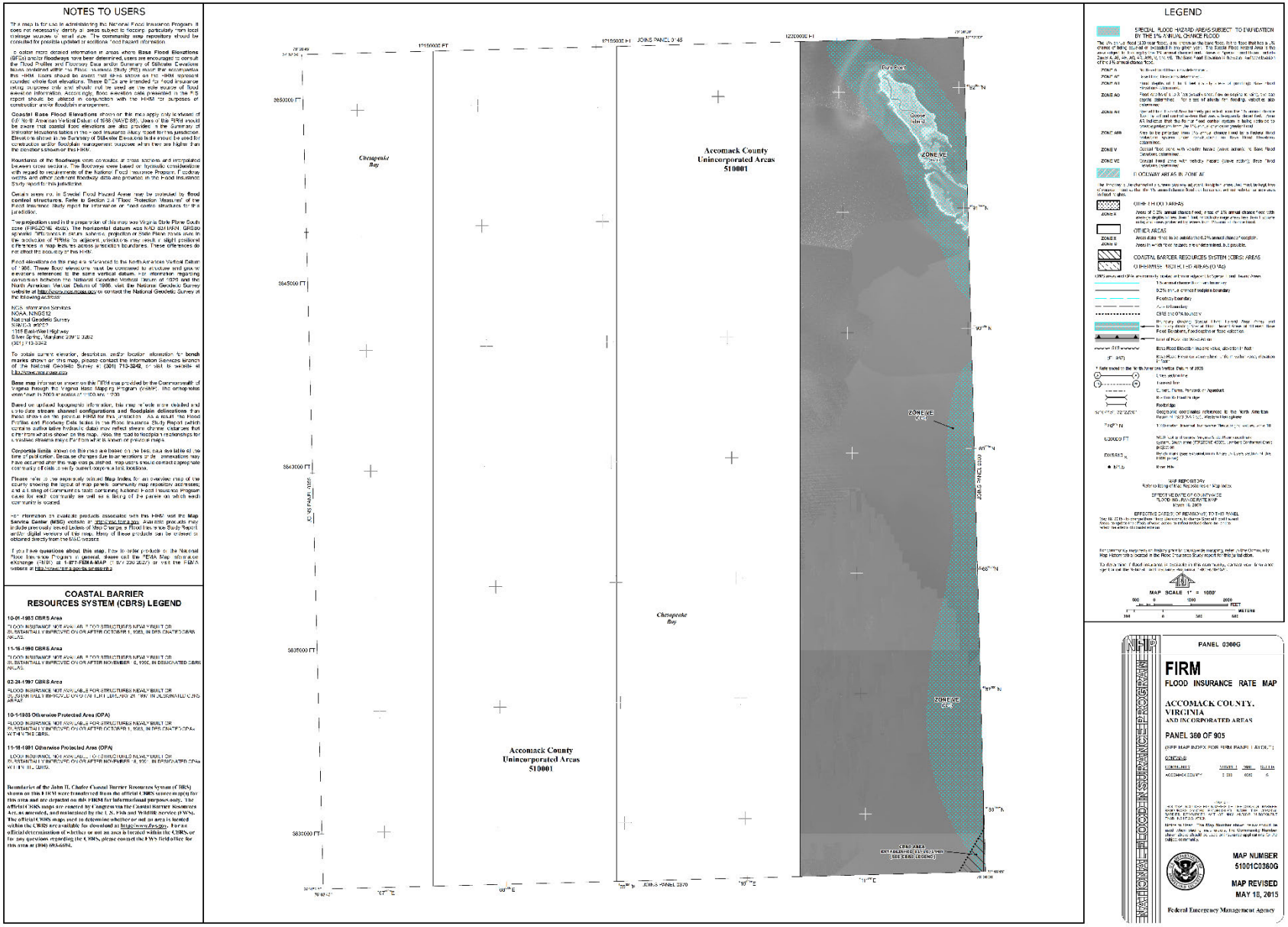
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Chesapeake Bay
LEGEND
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ACCOMACK COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 360 OF 905
MAP NUMBER 51001C0360G
MAP REVISED MAY 18, 2015
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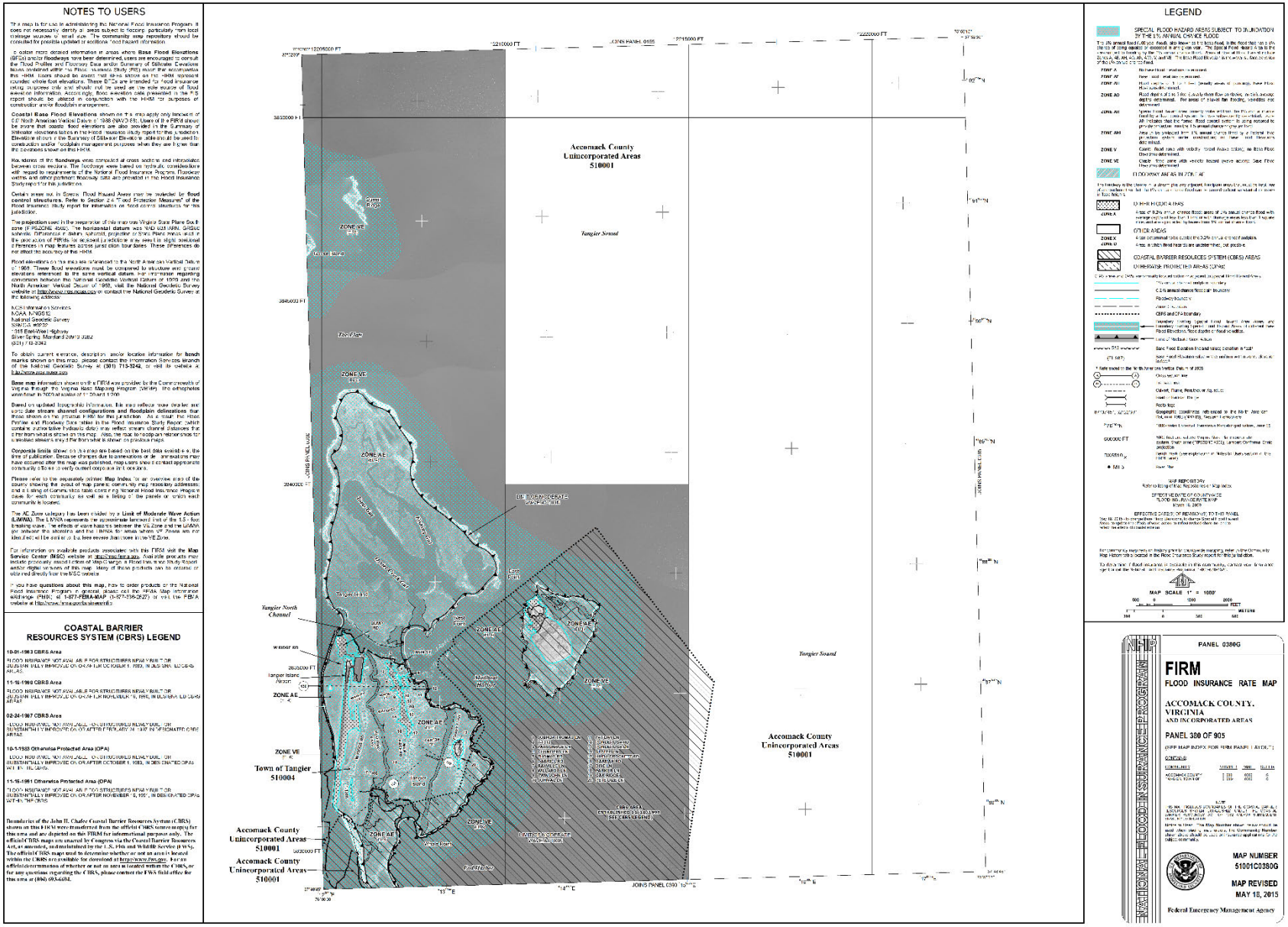
NOTES TO USERS
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Tangier Sound
Tangier North Channel
Town of Tangier 510004
ZONE AE
ZONE VE
LIMIT OF MODERATE WAVE ACTION
LEGEND
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 380 OF 905
PANEL 0380G
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MAP REVISED MAY 18, 2015
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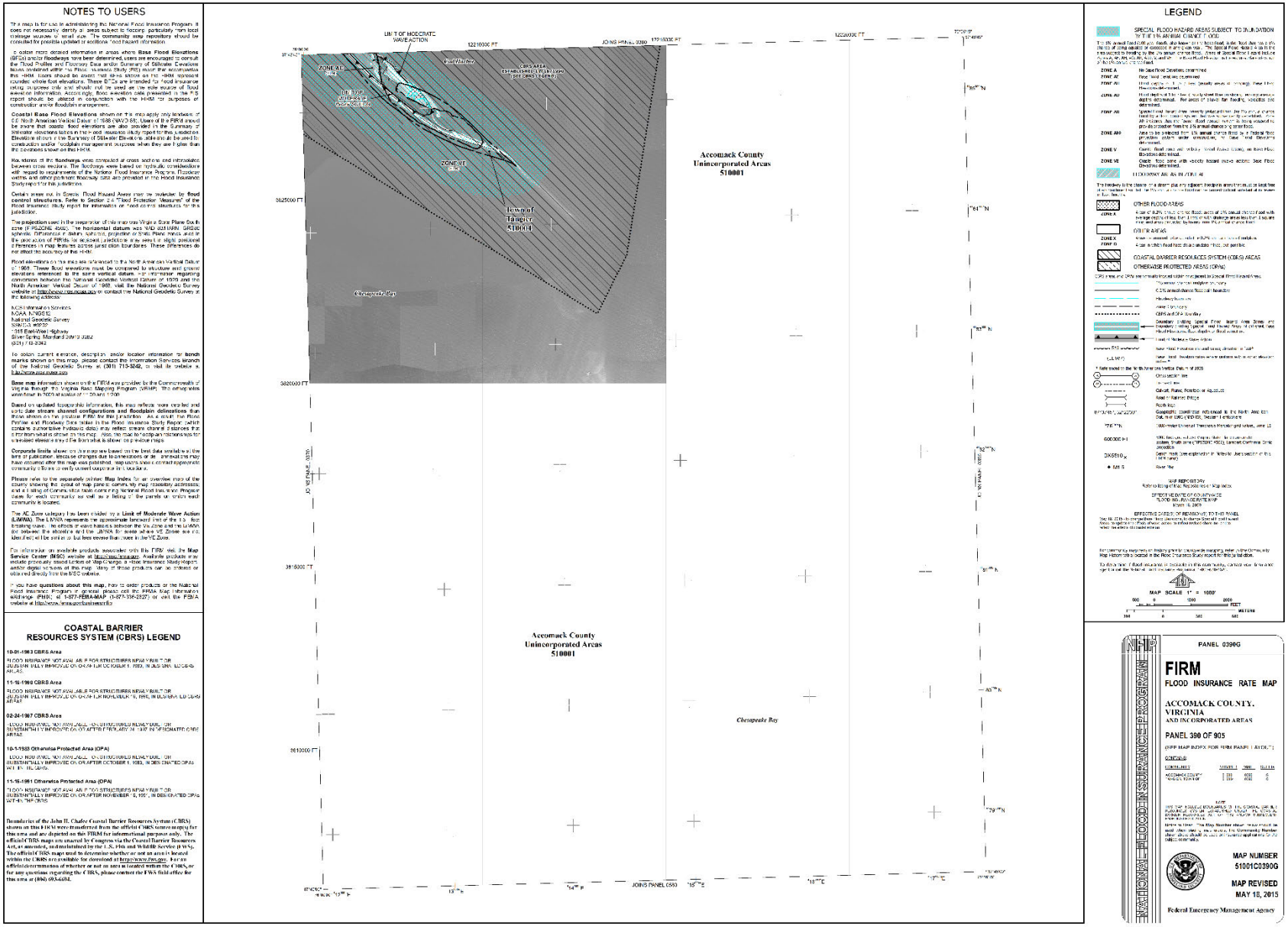
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LIMIT OF MODERATE WAVE ACTION
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ZONE VE
Town of Tangier 510004
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Chesapeake Bay
JOINS PANEL 0580
LEGEND
SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
OTHER FLOOD AREAS
OTHER AREAS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPA)
MAP SCALE 1" = 1000'
PANEL 0390G
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FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 390 OF 905
MAP NUMBER 51001C0390G
MAP REVISED MAY 18, 2015
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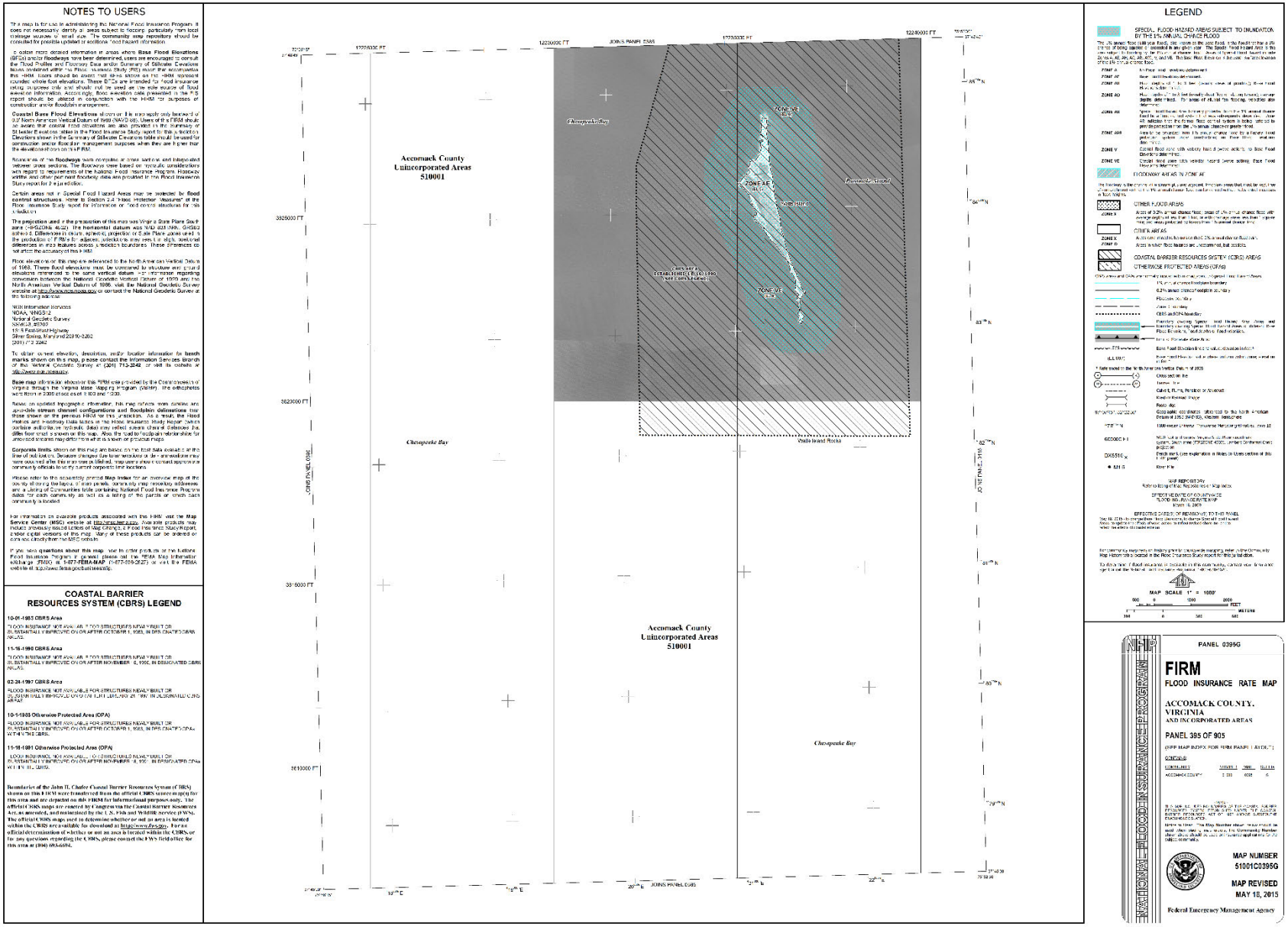
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Chesapeake Bay
Wallops Island Rocks
LEGEND
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FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 395 OF 905
MAP NUMBER
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MAP REVISED
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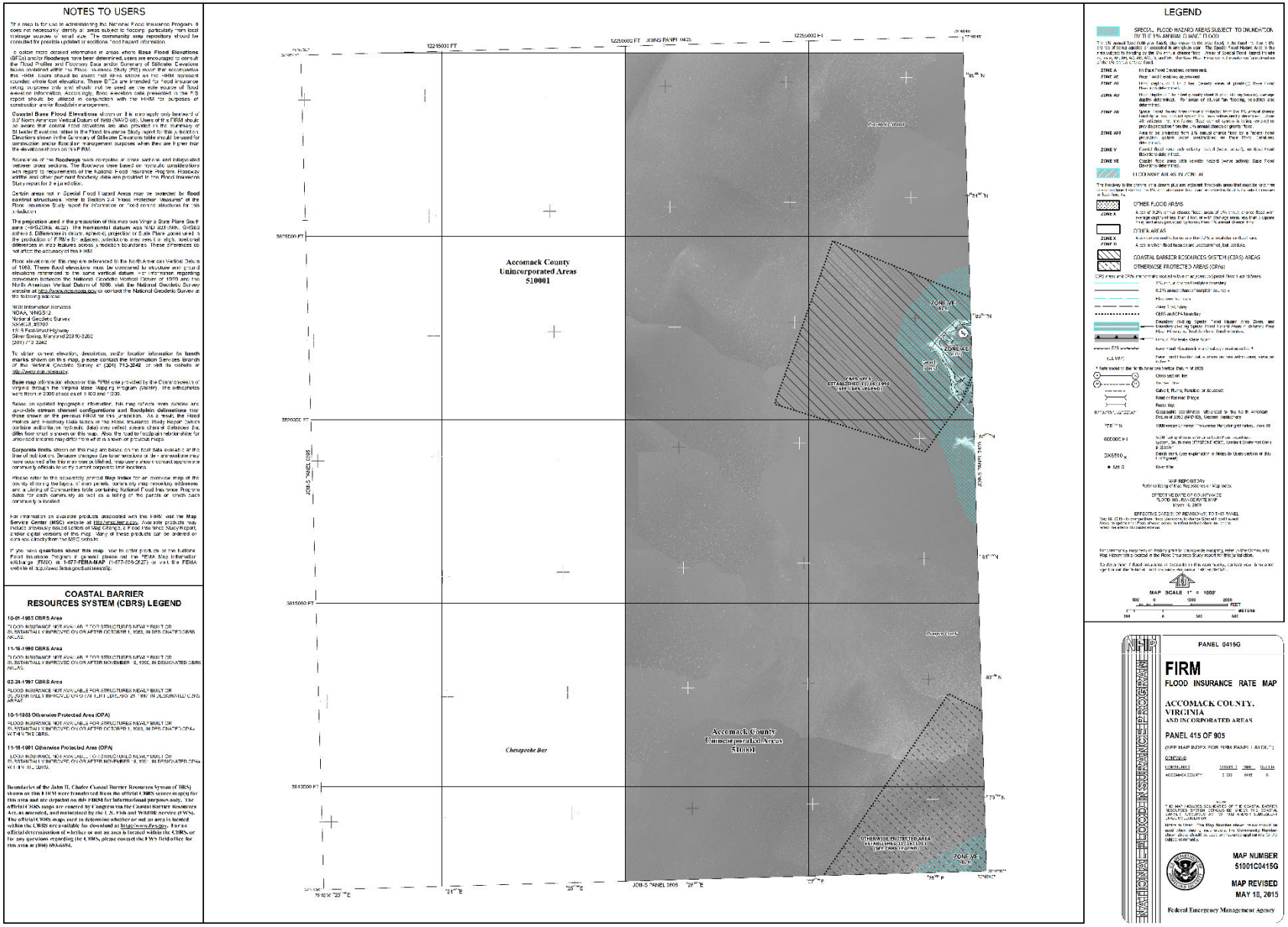
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Chesapeake Bay
LEGEND
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FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 415 OF 905
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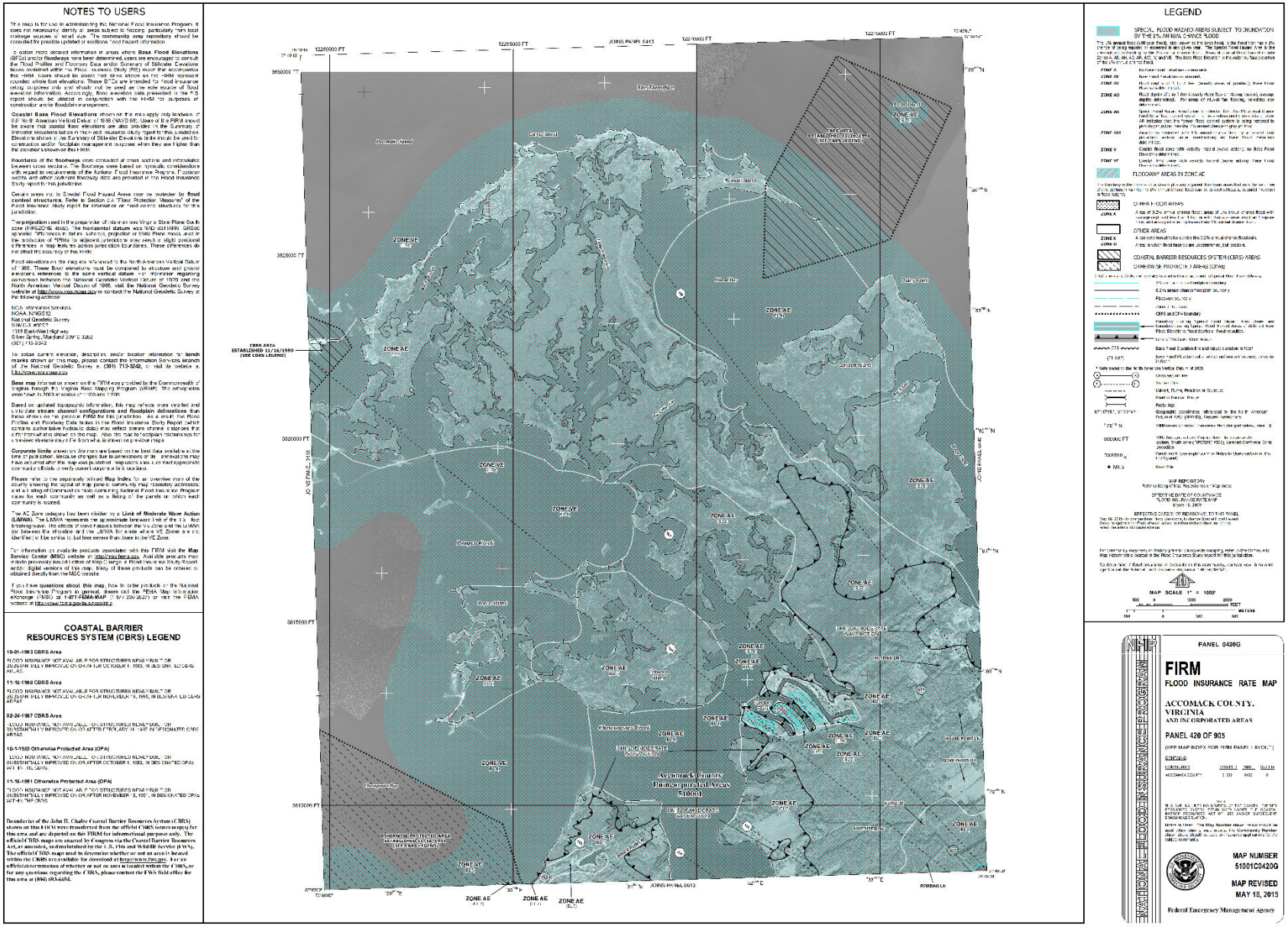
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ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 420 OF 905
MAP NUMBER 51001C0420G
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ZONE VE
ZONE X
JOINS PANEL 0413
JOINS PANEL 0612
JOINS PANEL 0416
ROBBINS LN

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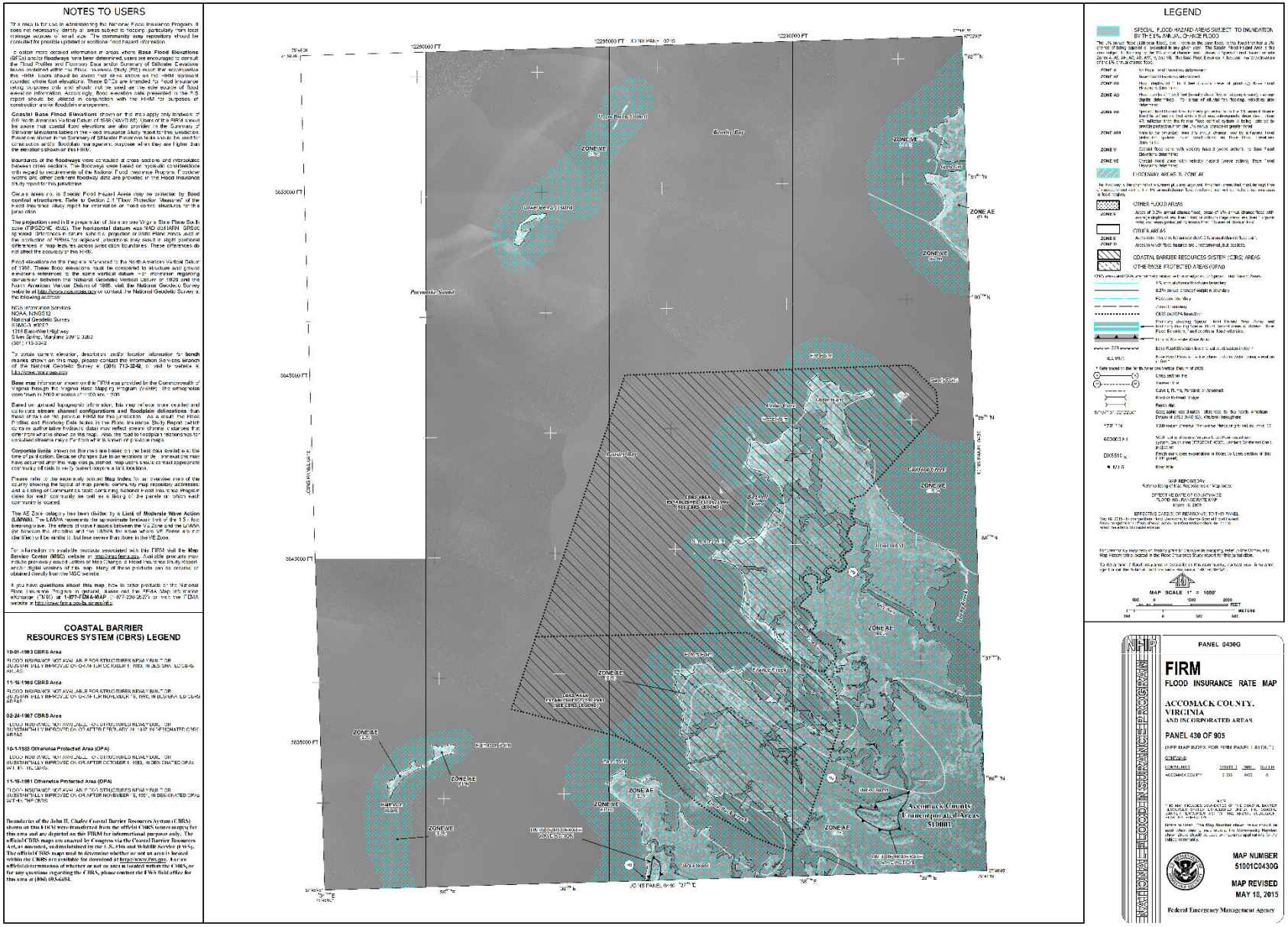
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LEGEND
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ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 430 OF 905
MAP NUMBER 51001C0430G
MAP REVISED MAY 18, 2015
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NATIONAL FLOOD INSURANCE PROGRAM
ZONE AE
ZONE VE
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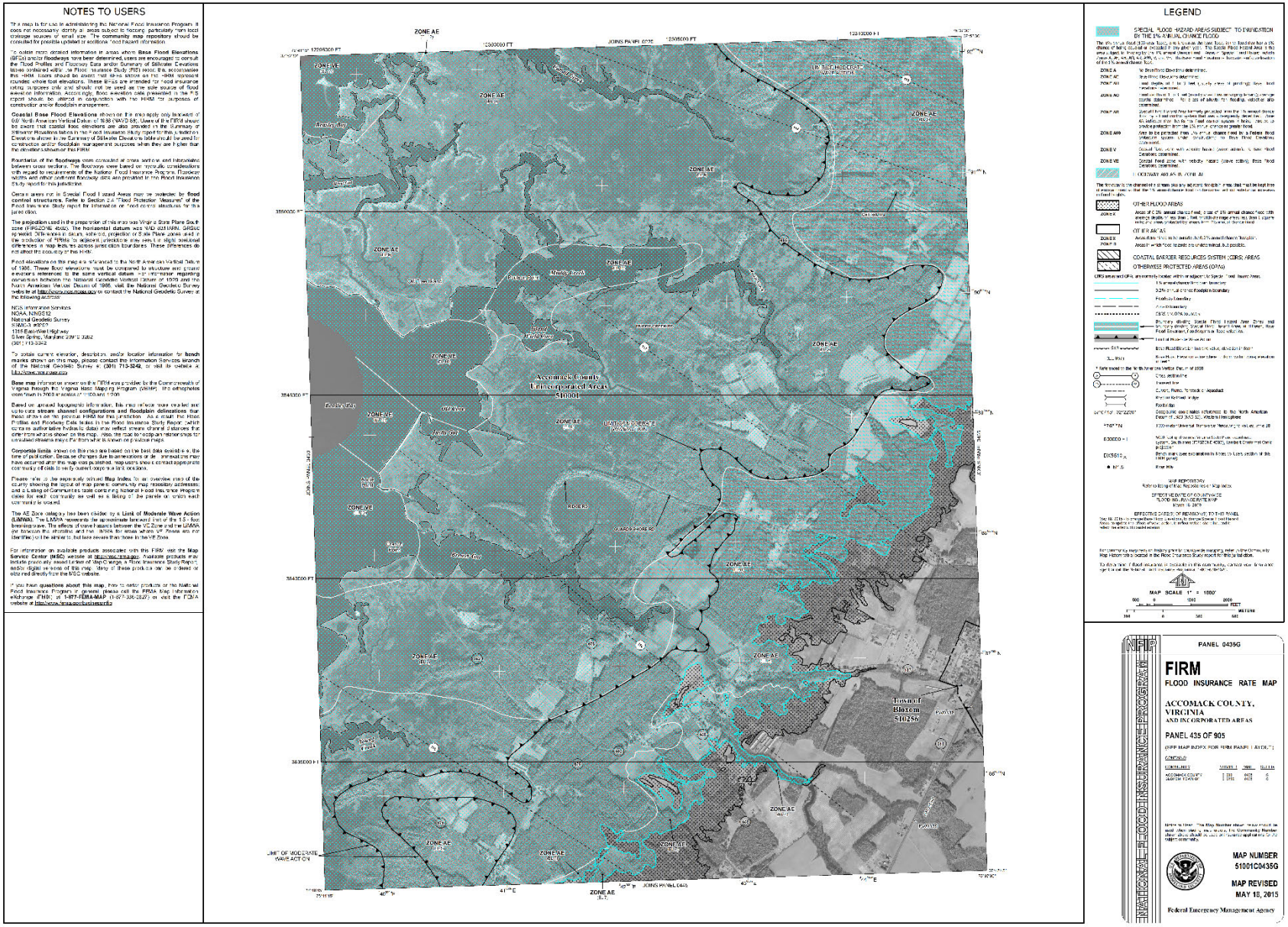
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Accomack County
Unincorporated Areas
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Town of
Bloxom
510256
ZONE AE
ZONE VE
LIMIT OF MODERATE WAVE ACTION
JOINS PANEL 0430
JOINS PANEL 0445
JOINS PANEL 0425
PANEL 0435G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY,
VIRGINIA
AND INCORPORATED AREAS
PANEL 435 OF 905
MAP NUMBER
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MAP REVISED
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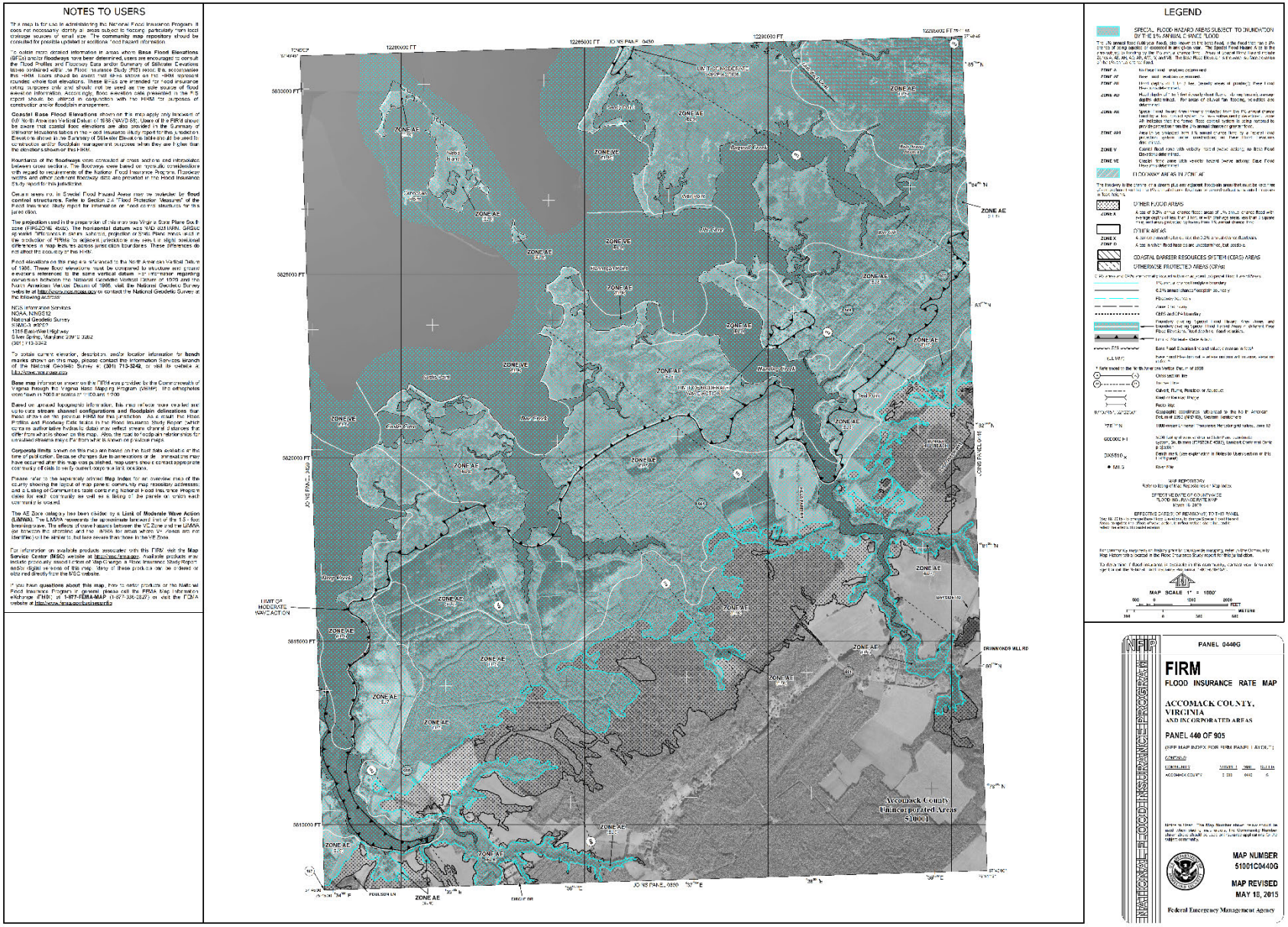
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ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 440 OF 905
MAP NUMBER 51001C0440G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM
ZONE AE
ZONE VE
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LIMIT OF MODERATE WAVE ACTION
DRINKHONDS MILL RD
JONES PANEL 0450
JONES PANEL 0550

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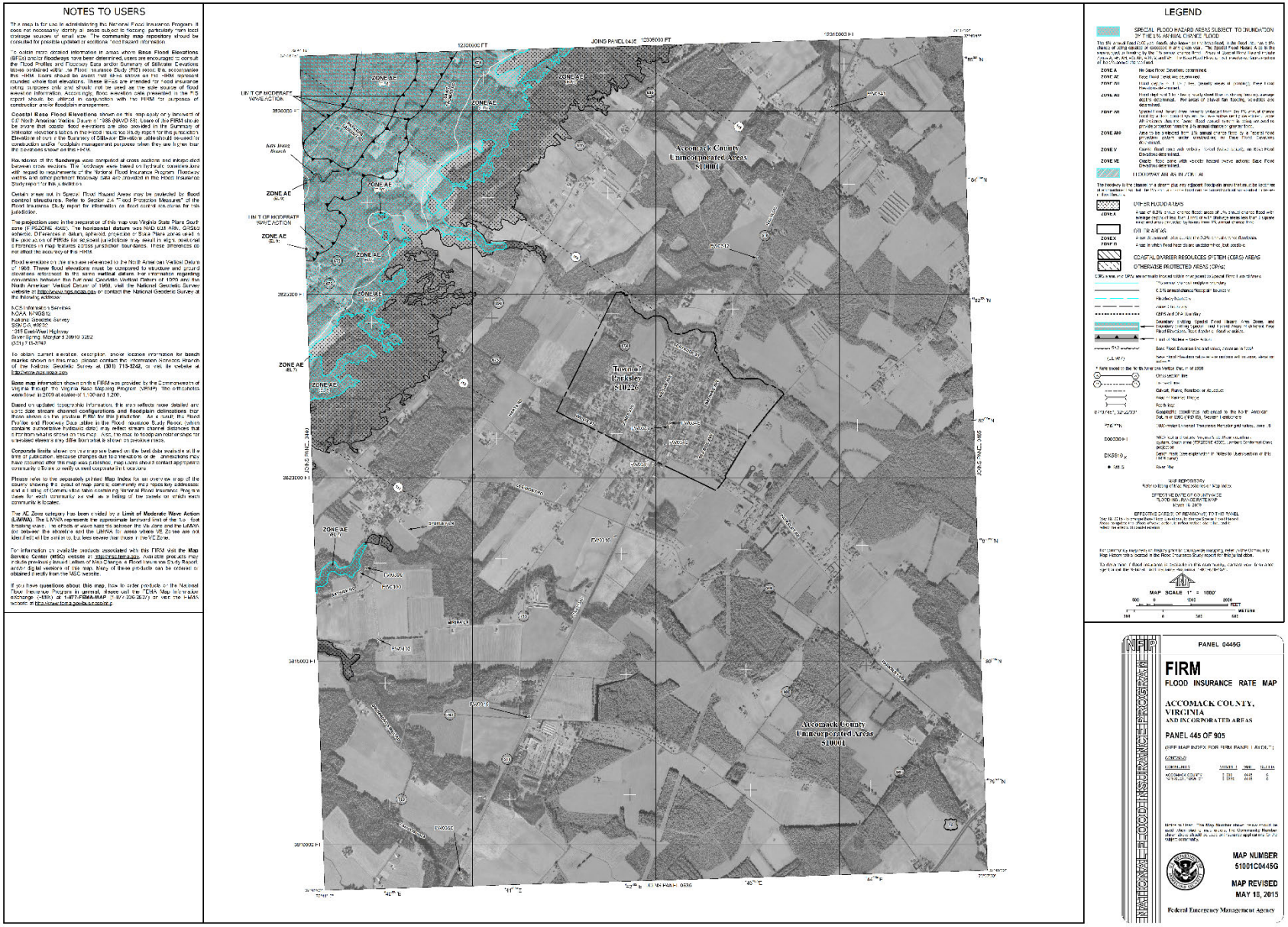
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Town of Parksley 510226
JOINS PANEL 0435
JOINS PANEL 0445
JOINS PANEL 0465
PANEL 0445G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
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MAP REVISED
MAY 18, 2015
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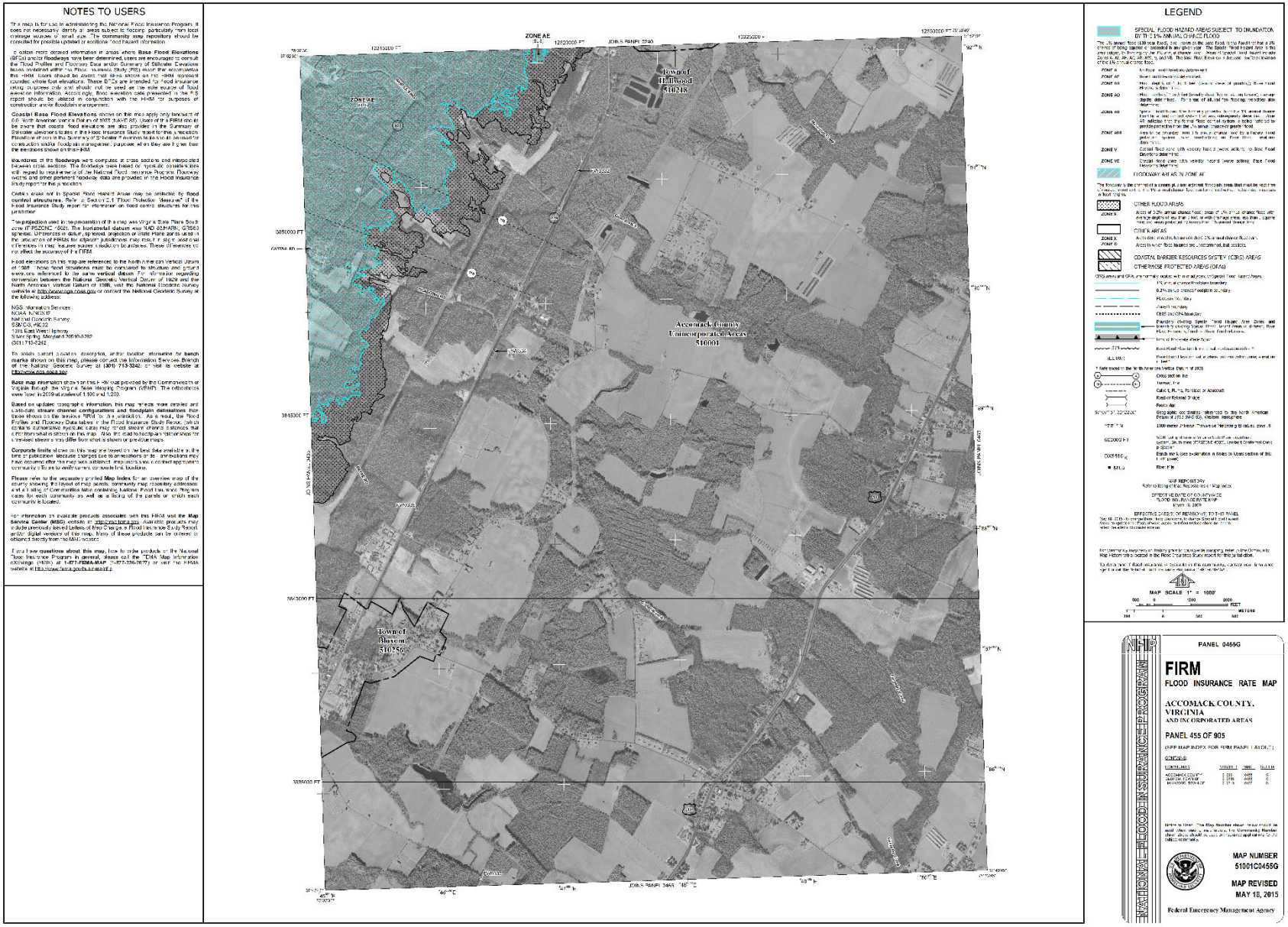
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Accomack County Unincorporated Areas 510001
Town of Bloxom 510256
MAP SCALE 1" = 1000'
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FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 455 OF 905
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MAP REVISED MAY 18, 2015
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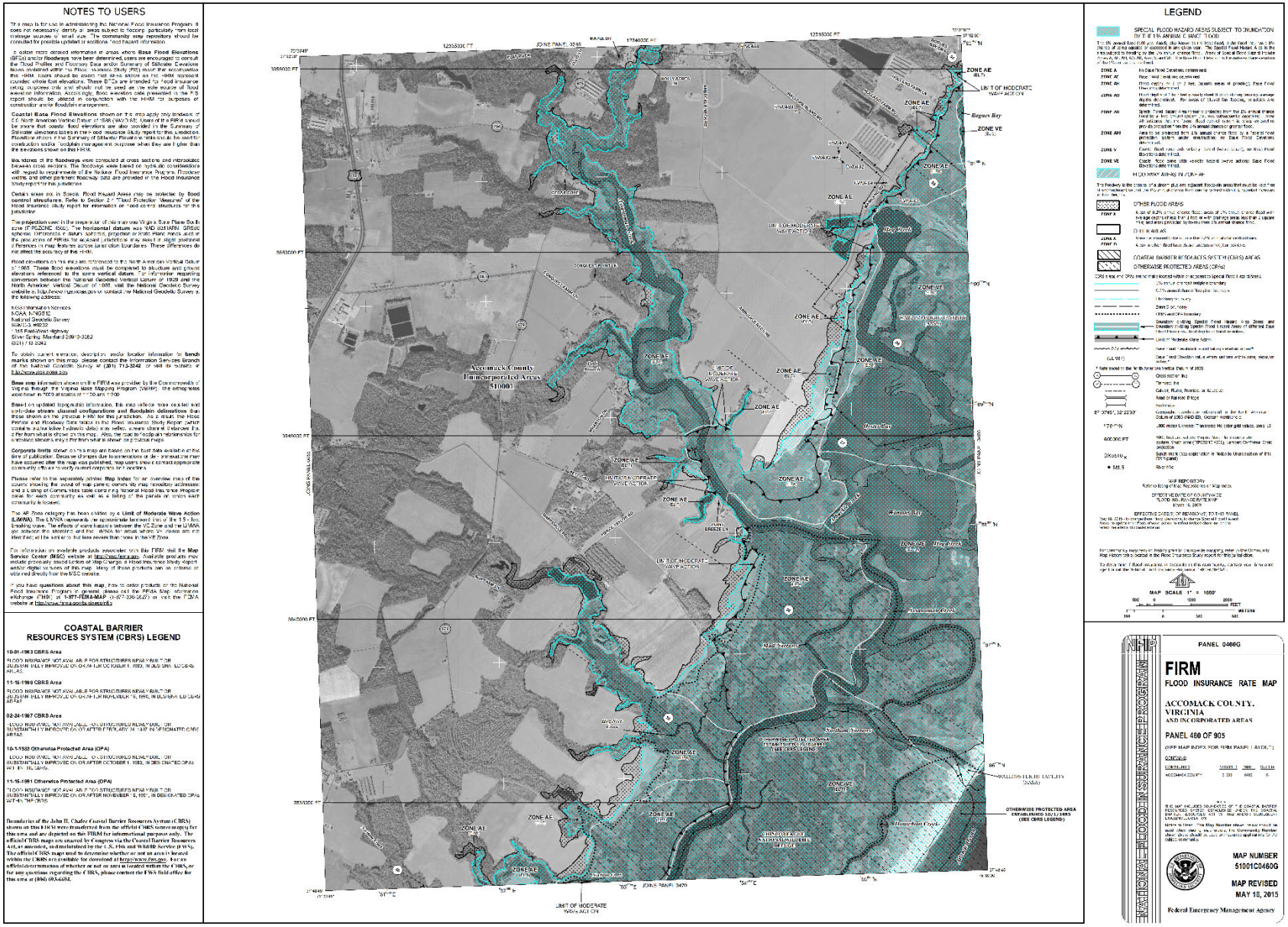
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ZONE AE
ZONE VE
LIMIT OF MODERATE WAVE ACTION
OTHERWISE PROTECTED AREA
PANEL 0460G
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FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
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PANEL 460 OF 905
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MAP REVISED
MAY 18, 2015
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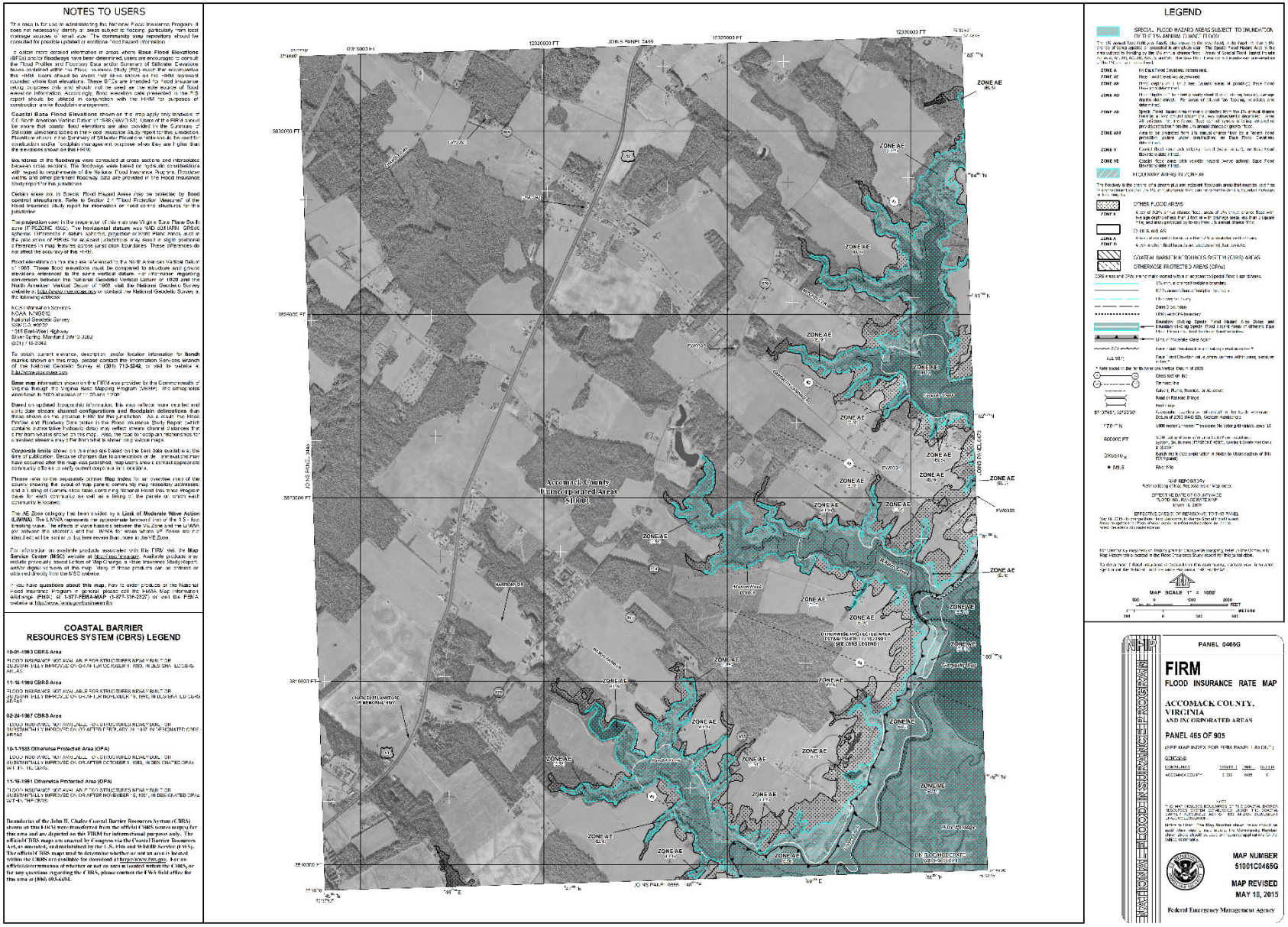
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ZONE VE
LEGEND
FIRM
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ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 465 OF 905
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MAP REVISED MAY 18, 2015
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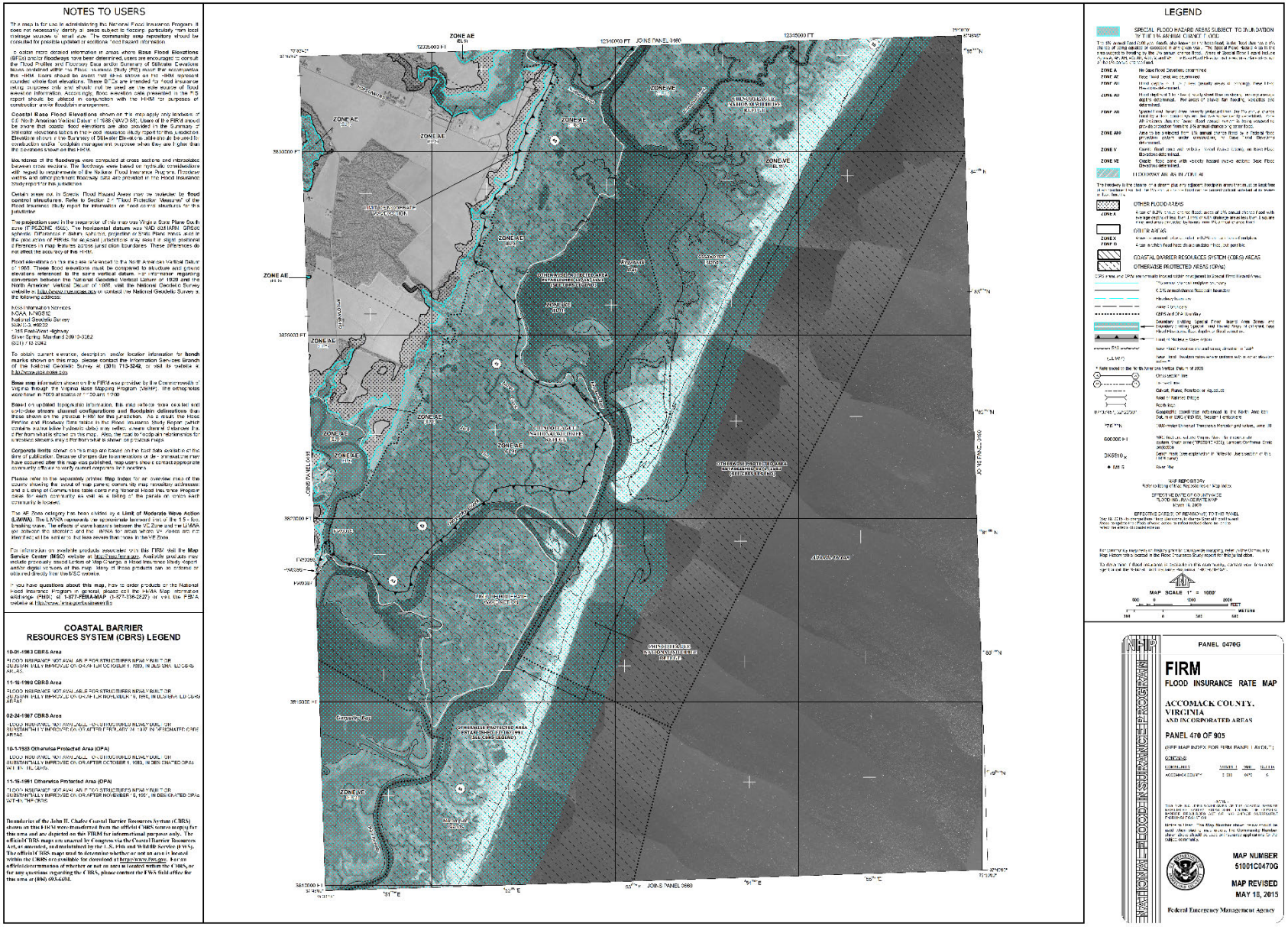
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ZONE VE
ZONE X
OTHERWISE PROTECTED AREA
JOIN S PANEL 0660
JOIN S PANEL 0680
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PANEL 0470G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 470 OF 905
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MAP REVISED
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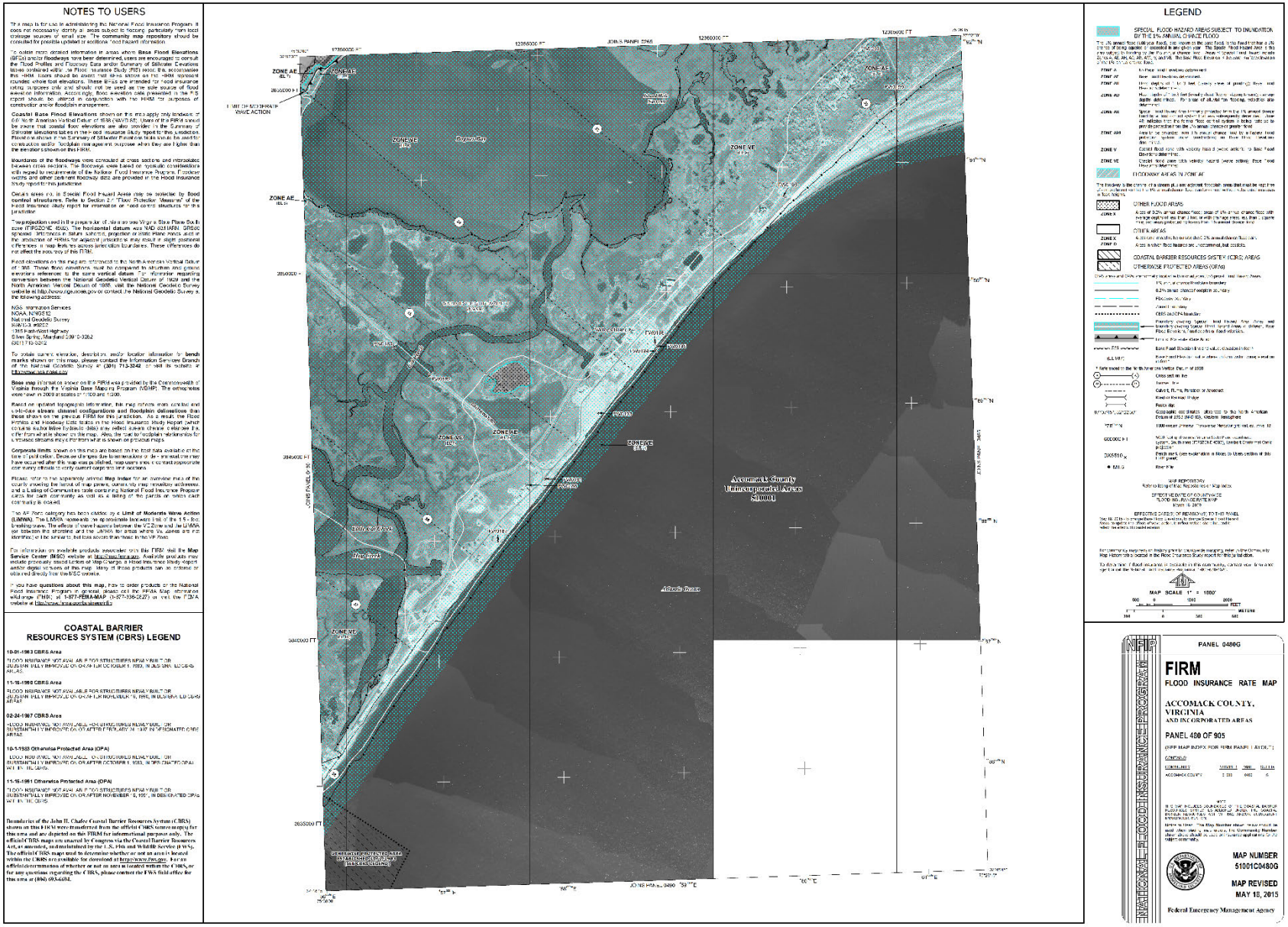
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LEGEND
ZONE AE
ZONE VE
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FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 480 OF 905
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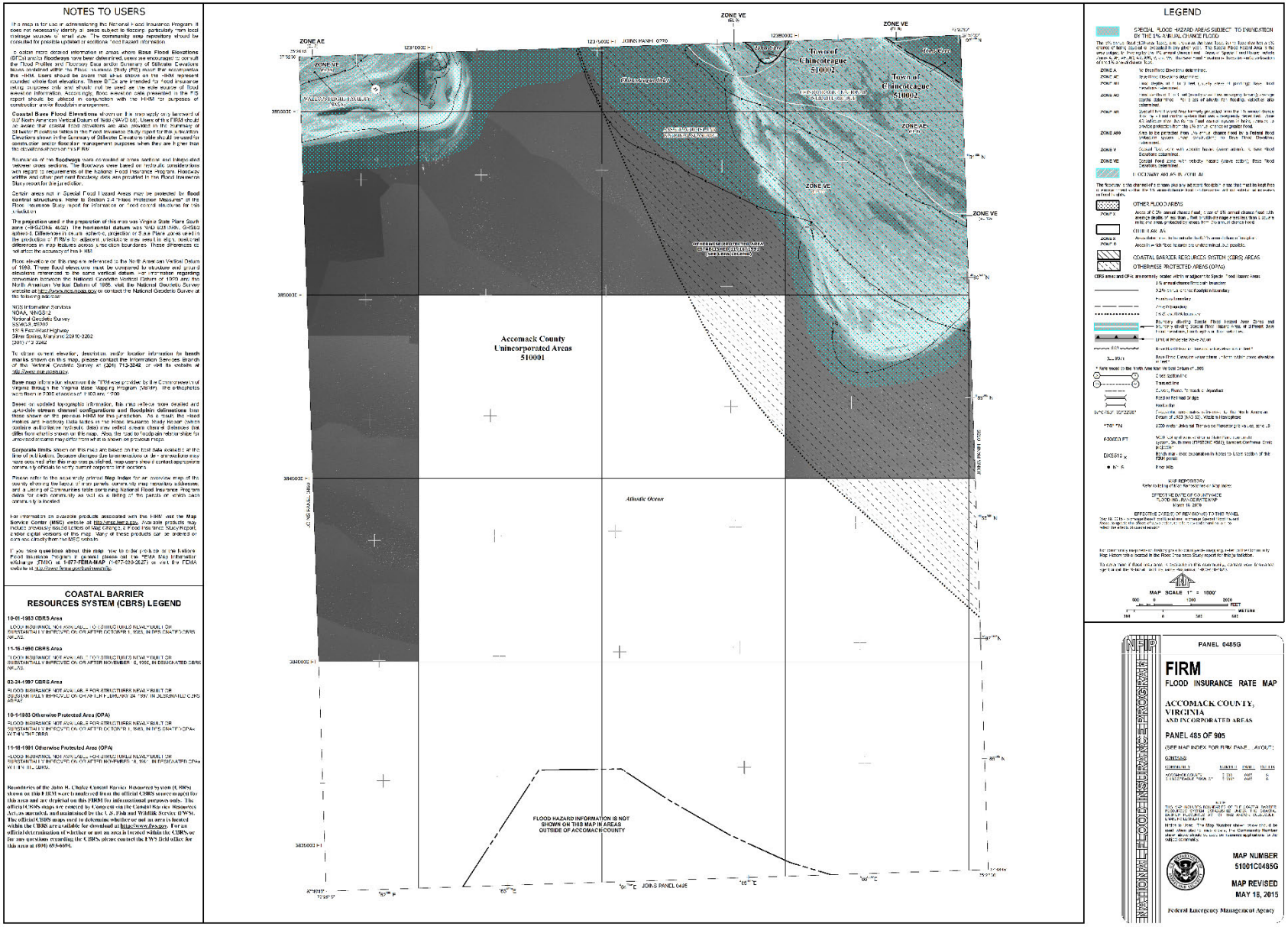
NOTES TO USERS
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Unincorporated Areas
510001
Atlantic Ocean
Town of Chincoteague
510002
ZONE VE
ZONE AE
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
LEGEND
MAP SCALE 1" = 1000'
PANEL 0485G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 485 OF 905
MAP NUMBER
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MAP REVISED
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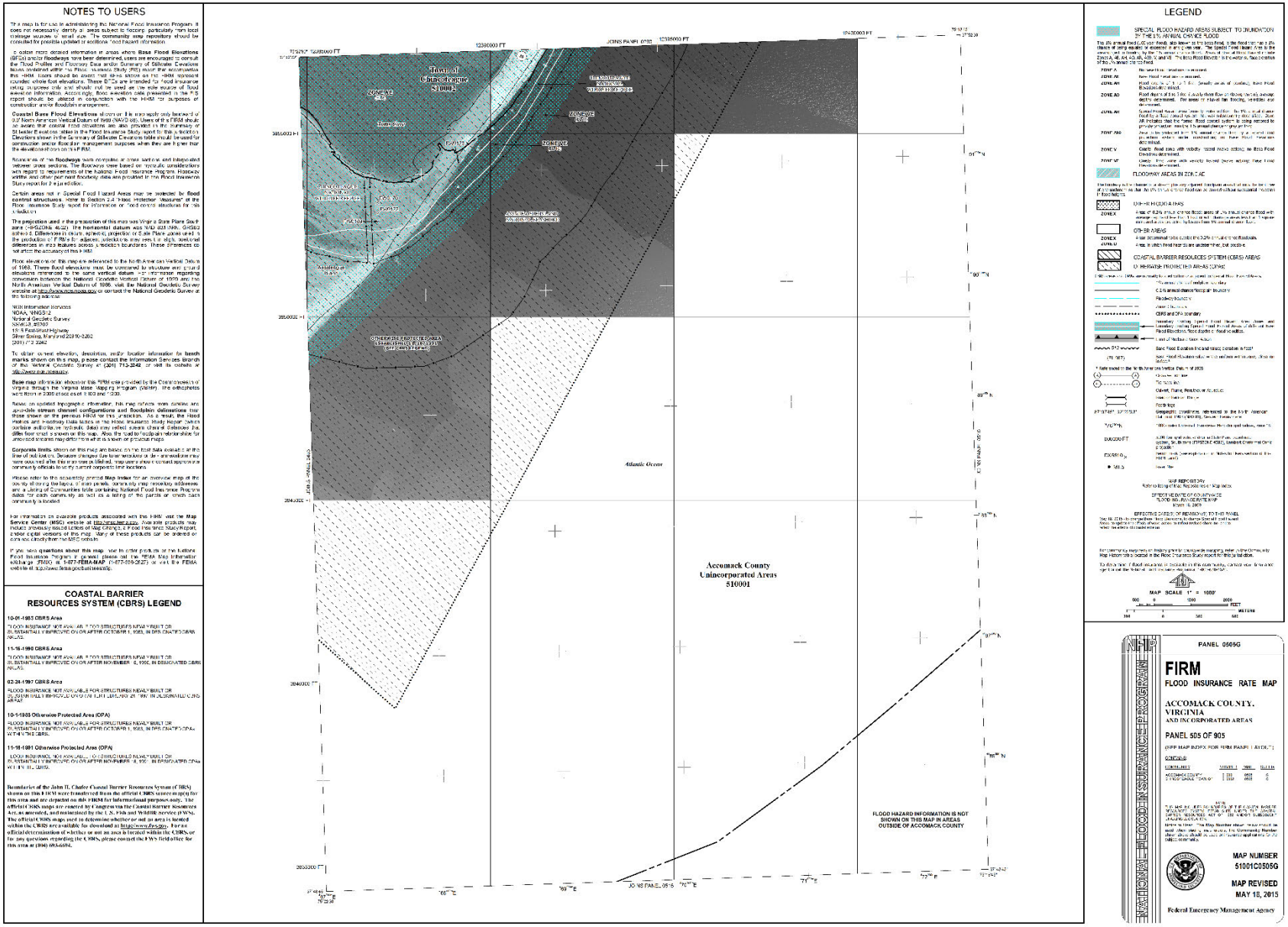
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Town of Chincoteague
Atlantic Ocean
Accomack County
Unincorporated Areas
510001
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LEGEND
PANEL 0505G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 505 OF 905
MAP NUMBER
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MAP REVISED
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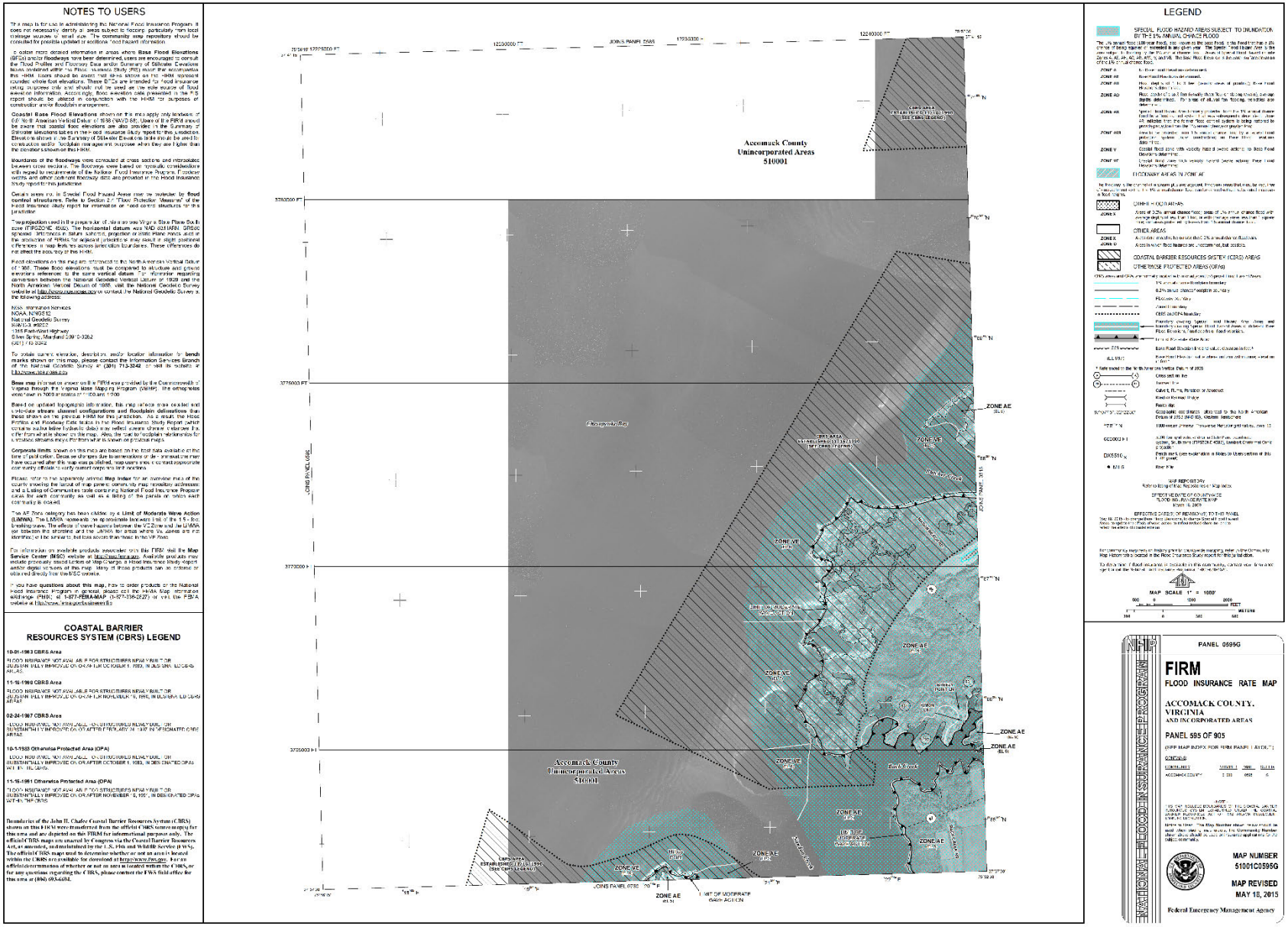
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LEGEND
PANEL 0595G
FIRM
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ACCOMACK COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 595 OF 905
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MAP REVISED MAY 18, 2015
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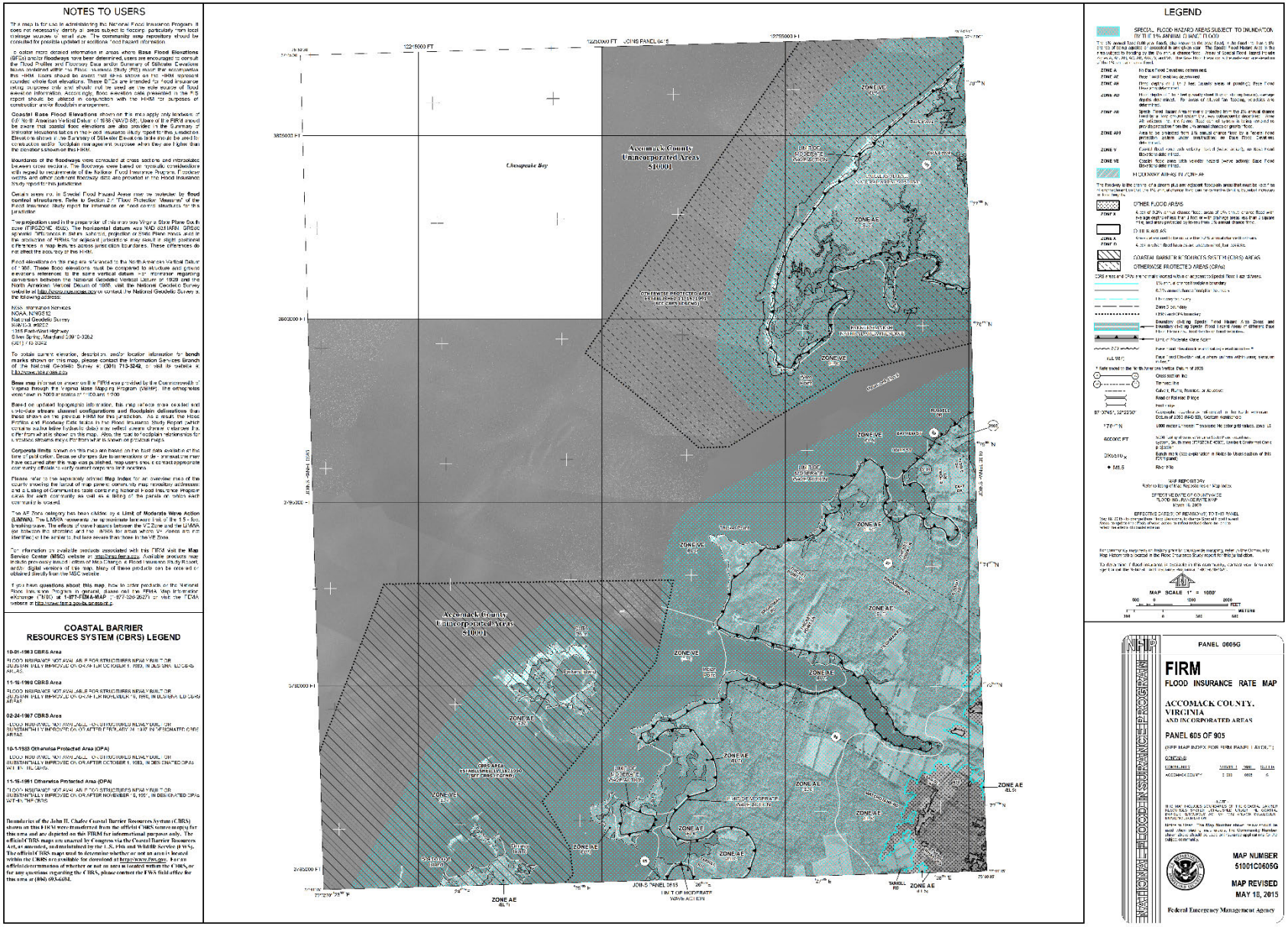
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Accomack County Unincorporated Areas 510001
Chesapeake Bay
ZONE AE
ZONE VE
LEGEND
SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
OTHER FLOOD AREAS
OTHER AREAS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)
MAP SCALE 1" = 1000'
PANEL 0605G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 605 OF 905
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MAP REVISED MAY 18, 2015
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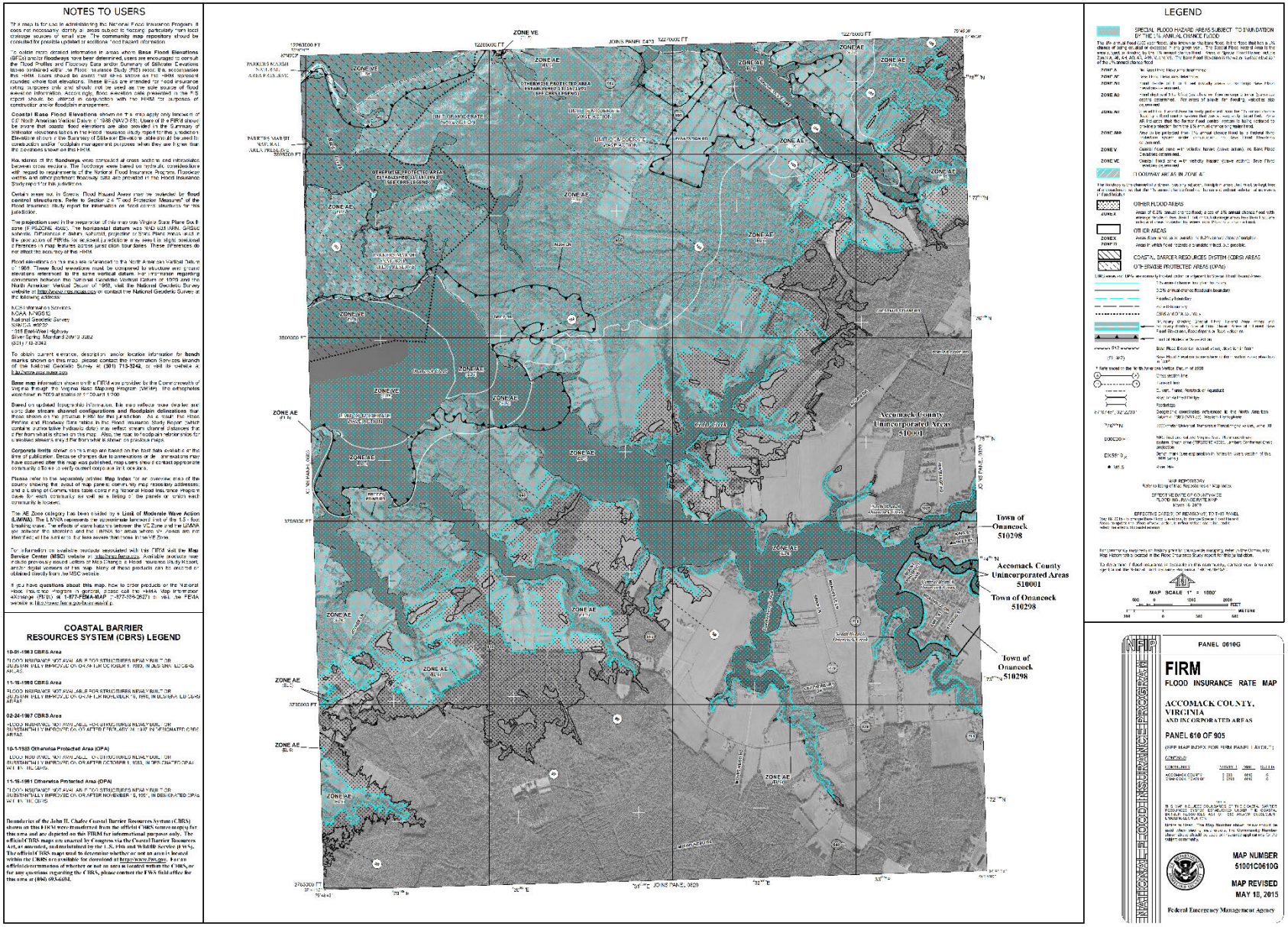
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LEGEND
ZONE VE
ZONE AE
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Town of Onancock 510298
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FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 610 OF 905
MAP NUMBER 51001C0610G
MAP REVISED MAY 18, 2015
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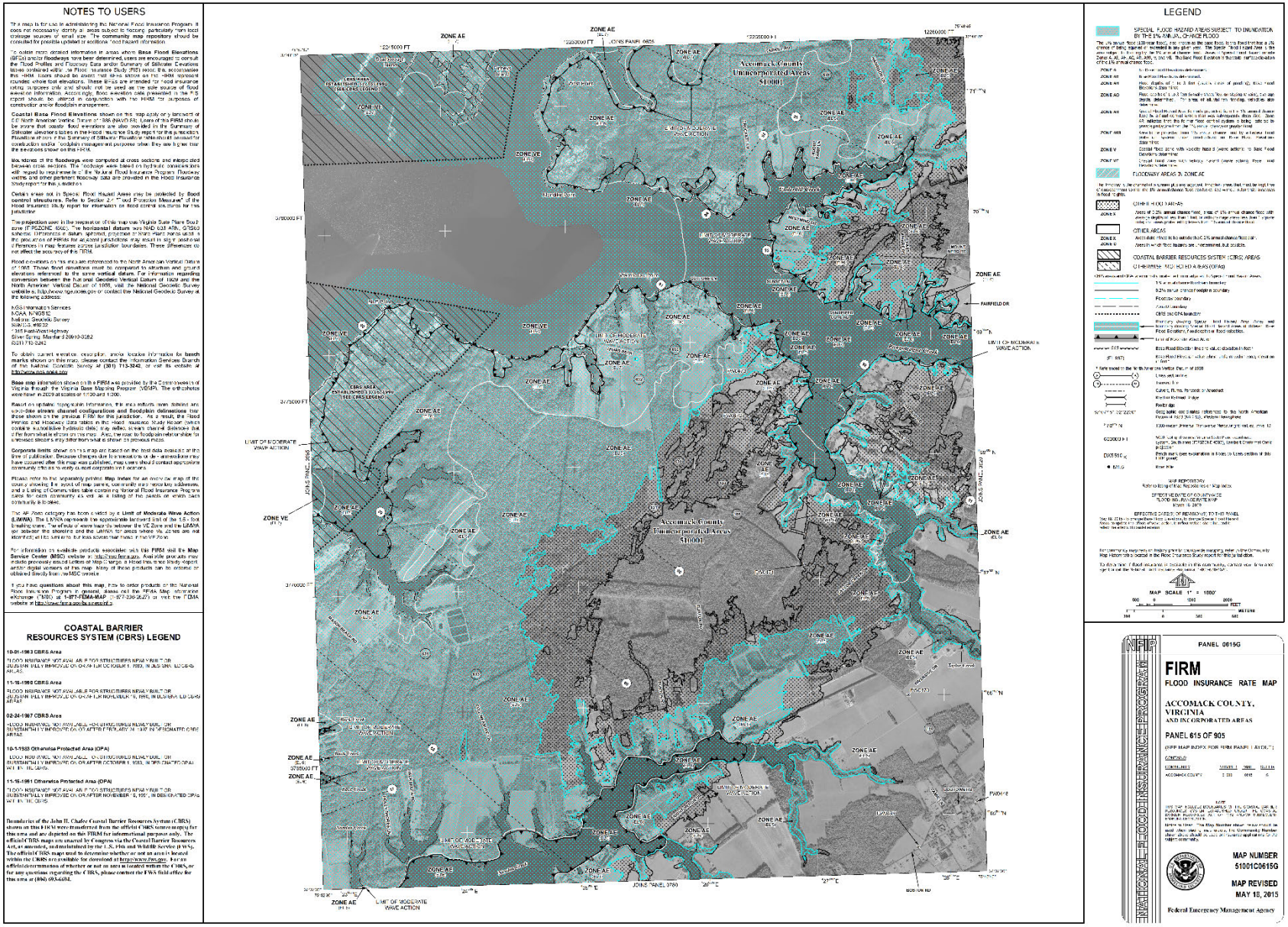
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ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 615 OF 905
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MAP REVISED MAY 18, 2015
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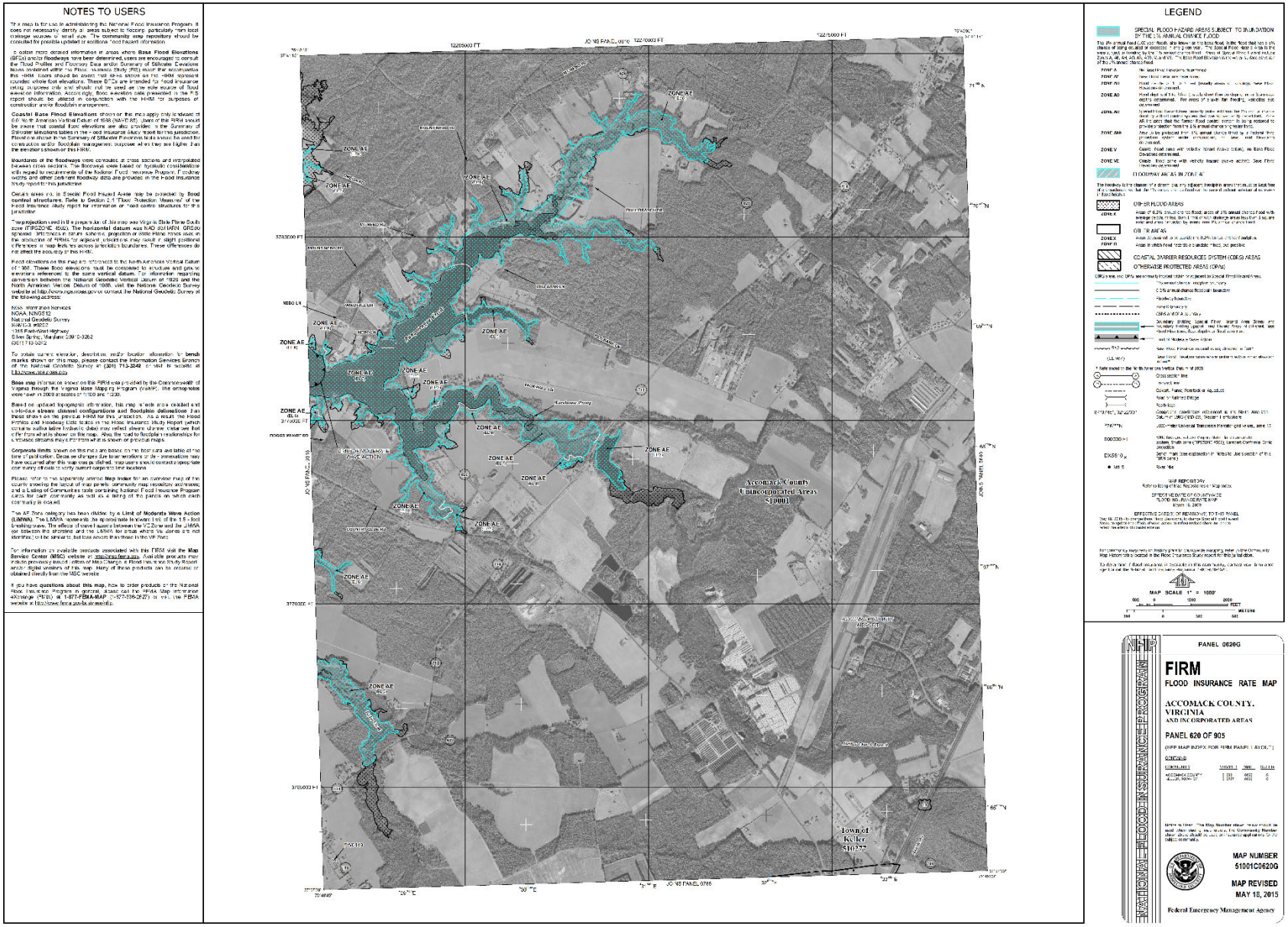
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Unincorporated Areas
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Town of
Keller
510202
ZONE AE
PANEL 0620G
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FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY,
VIRGINIA
AND INCORPORATED AREAS
PANEL 620 OF 905
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MAP REVISED
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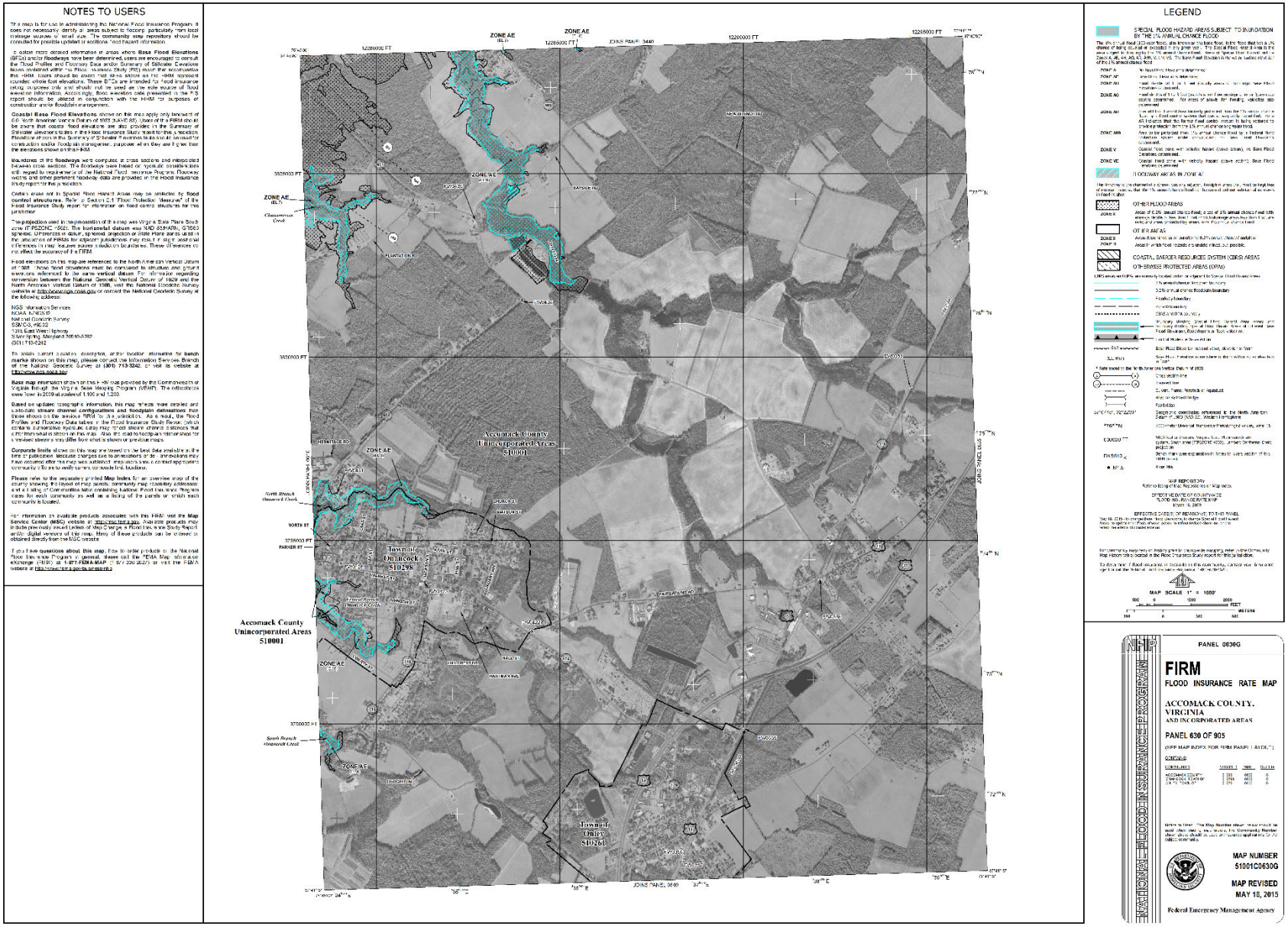
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Town of Onancock 510296
Town of Onley 510261
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FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 630 OF 905
MAP NUMBER 51001C0630G
MAP REVISED MAY 18, 2015
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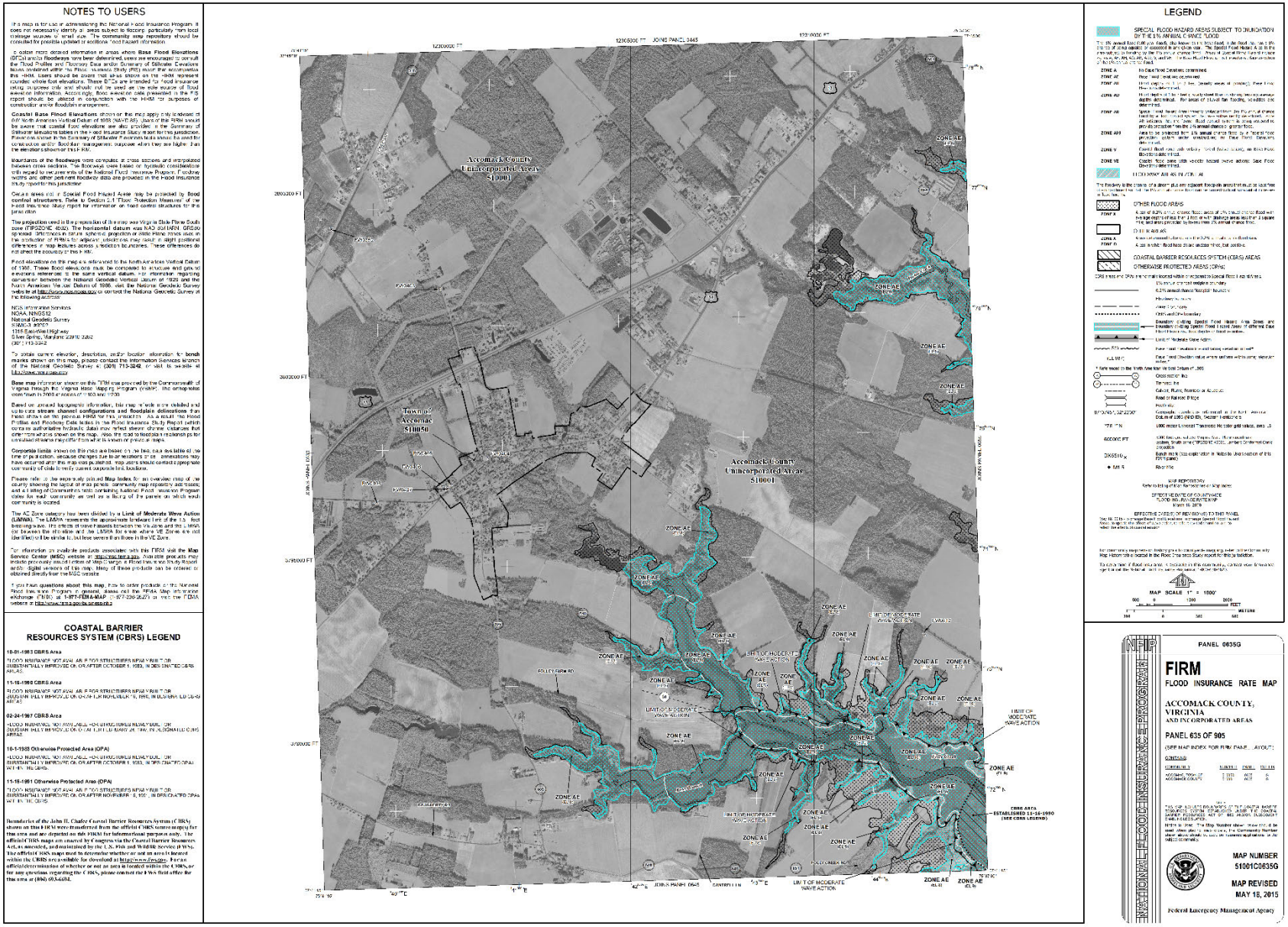
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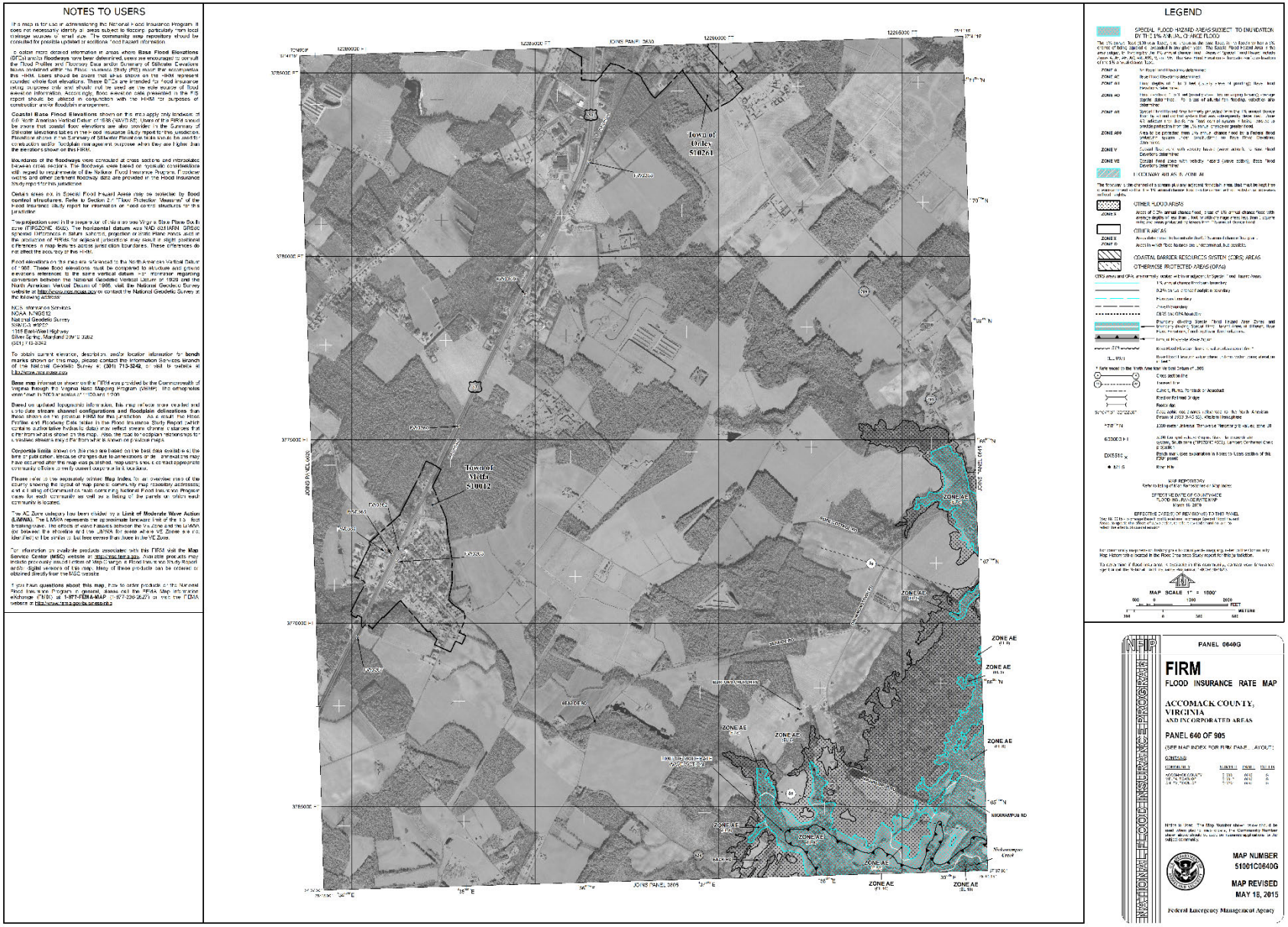
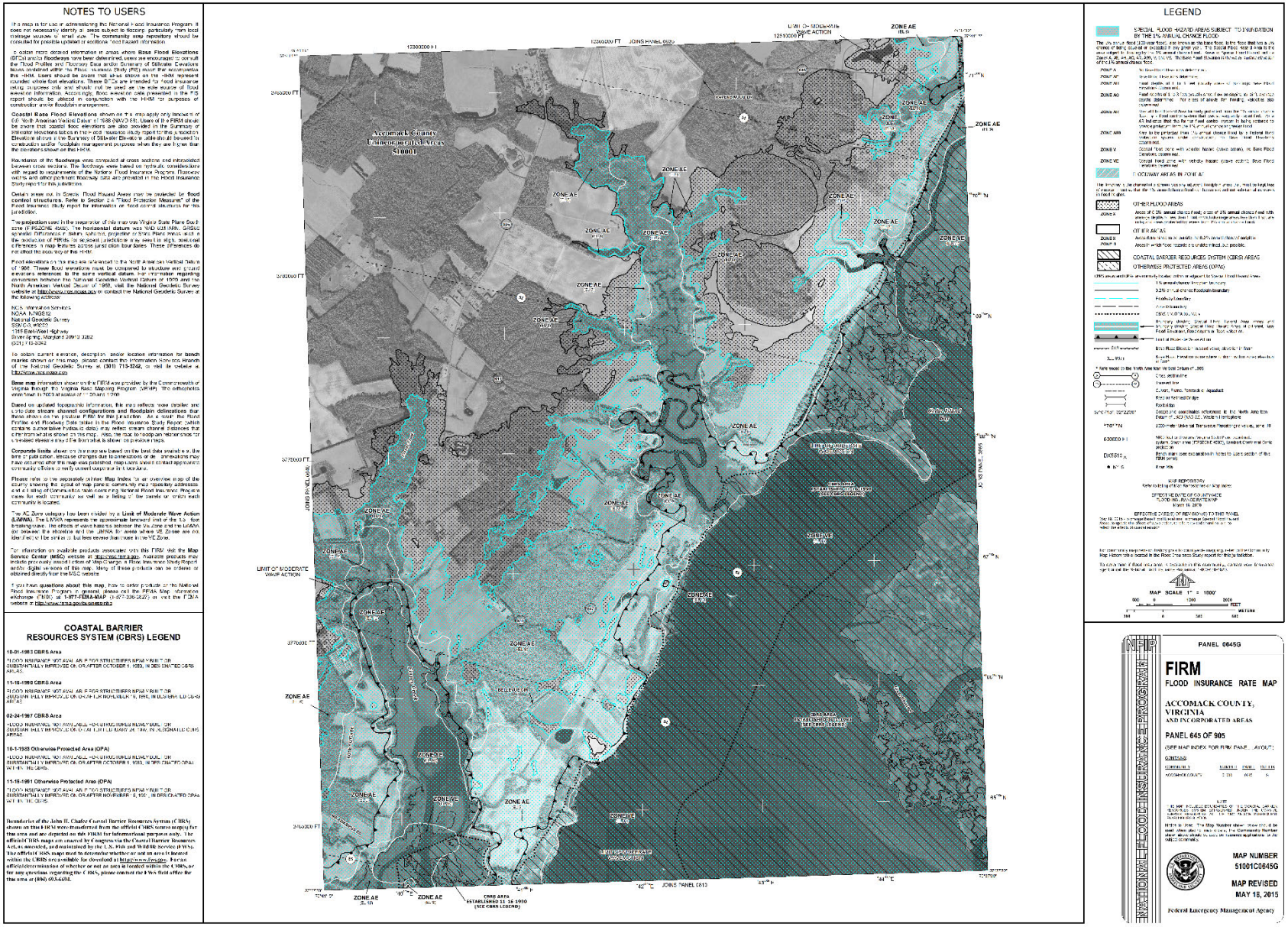
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Accomack County Unincorporated Areas 510001
Town of Accomac 510150
ZONE AE
LIMIT OF MODERATE WAVE ACTION
JOHNS PARK DRIVE
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 635 OF 905
MAP NUMBER 51001C0635G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

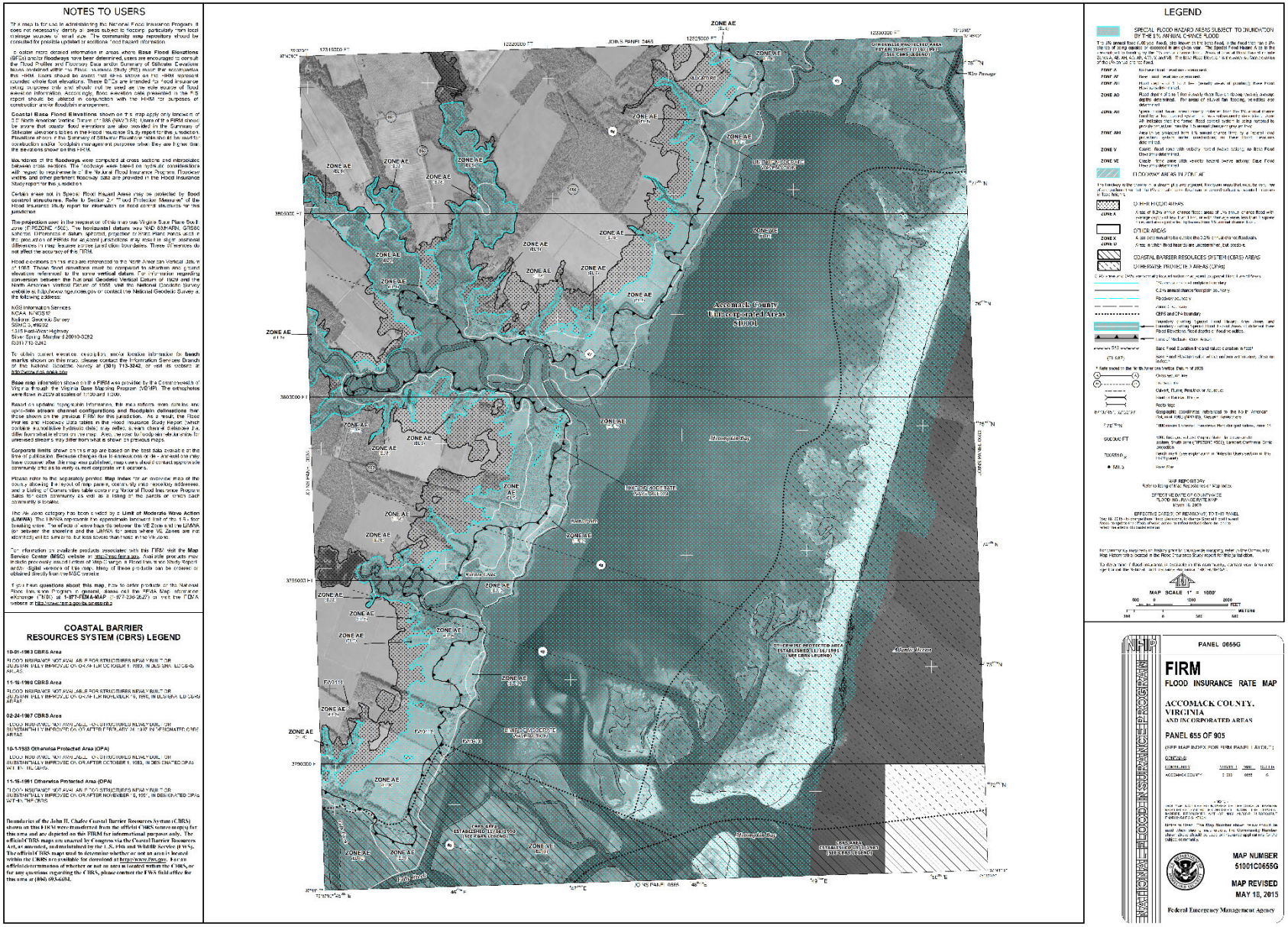
APPENDIX E


NOTES TO USERS
LEGEND
Town of Onley
510261
Town of Vista
510012
ZONE AE
PANEL 0640G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 640 OF 905
MAP NUMBER
51001C0640G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Accomack County Unincorporated Areas 510001
ZONE AE
ZONE VE
LIMIT OF MODERATE WAVE ACTION
JOINS PANEL 0820
JOINS PANEL 0810
JOINS PANEL 0815
CBRS AREA ESTABLISHED 11 16 1990 (SEE CBRS LEGEND)
PANEL 0645G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 645 OF 905
MAP NUMBER 51001C0645G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Accomack County Unincorporated Areas
51001L
Atlantic Ocean
Hungars Bay
ZONE AE
ZONE VE
ZONE X
PANEL 0655G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 655 OF 905
MAP NUMBER
51001C0655G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

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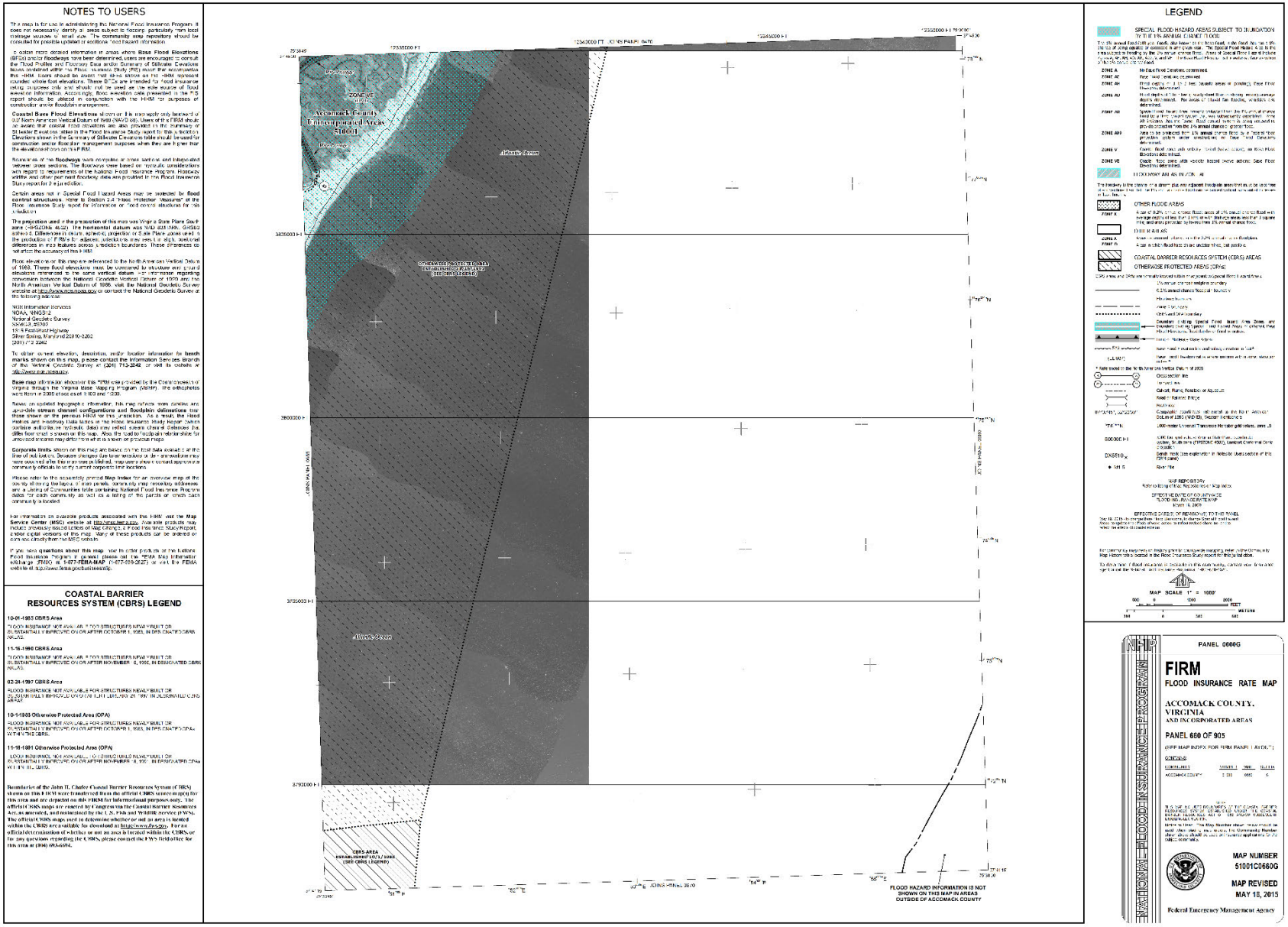
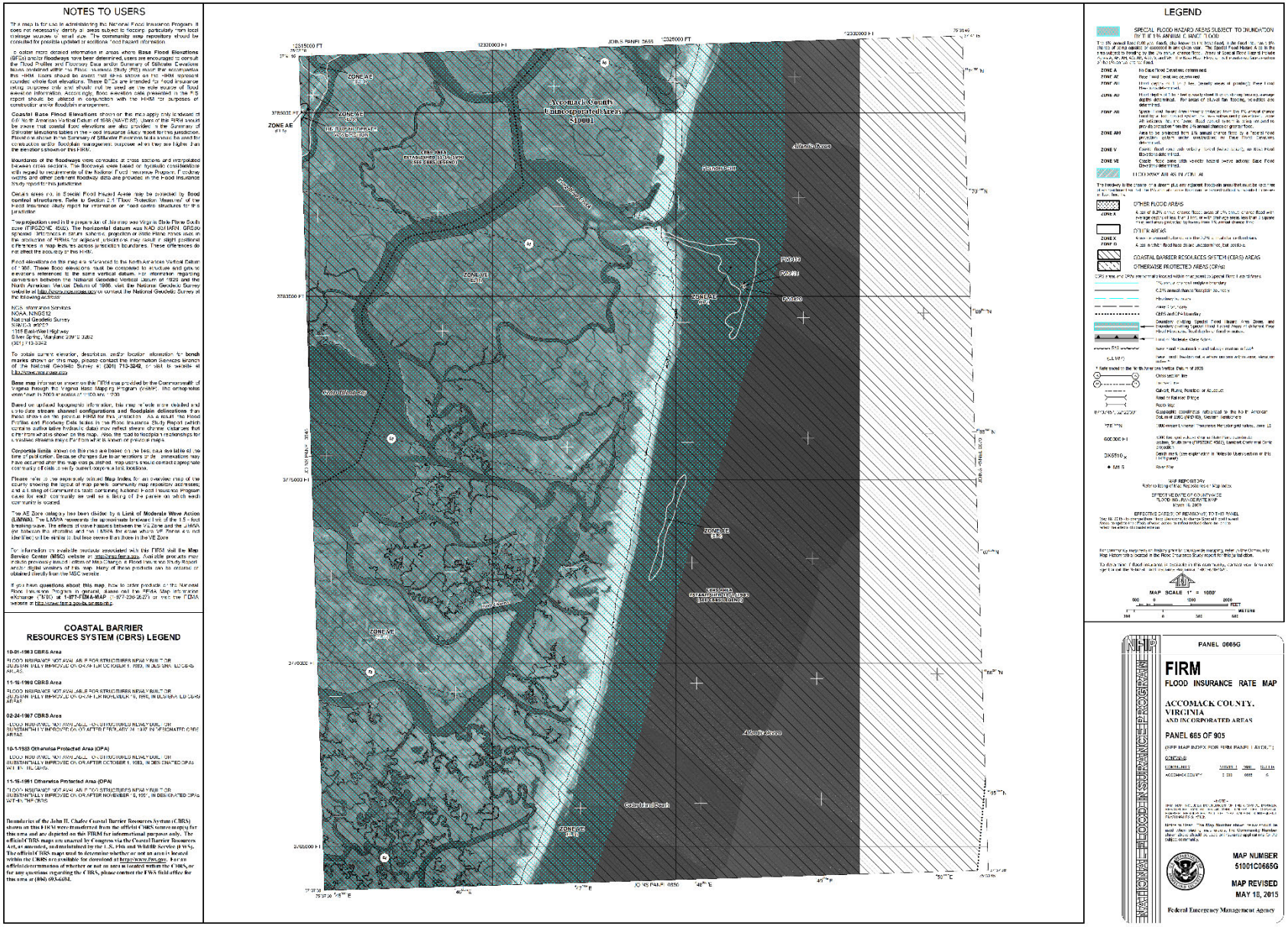
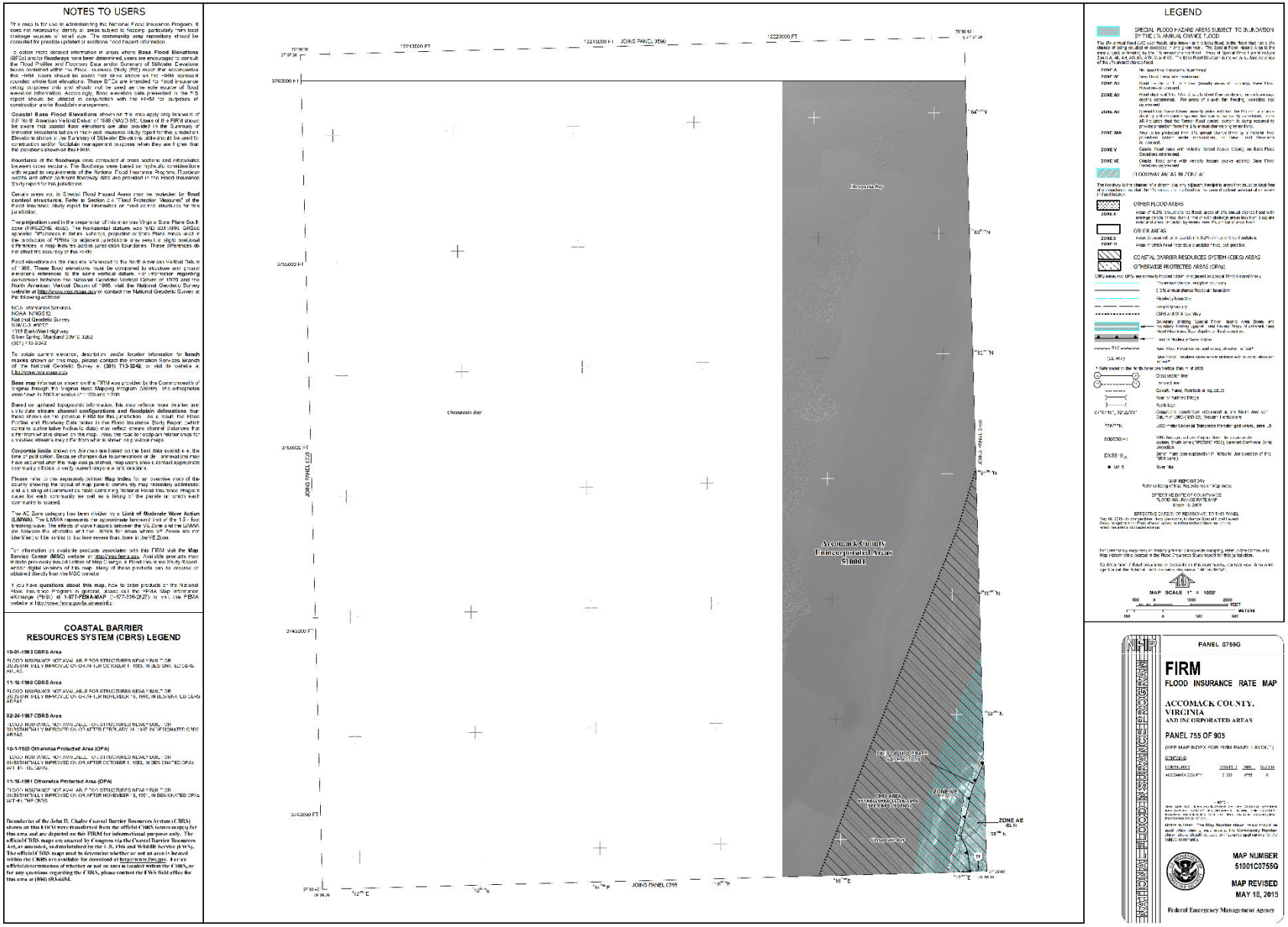

NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Accomack County Unincorporated Areas 510001
ZONE VE
OTHERWISE PROTECTED AREA (OPA) ESTABLISHED JULY 1, 1983 (SEE CBRS LEGEND)
CBRS AREA ESTABLISHED JULY 1, 1983 (SEE CBRS LEGEND)
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
LEGEND
OTHER FLOOD AREAS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPA)
MAP SCALE 1" = 1000'
PANEL 0660G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 660 OF 905
MAP NUMBER 51001C0660G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

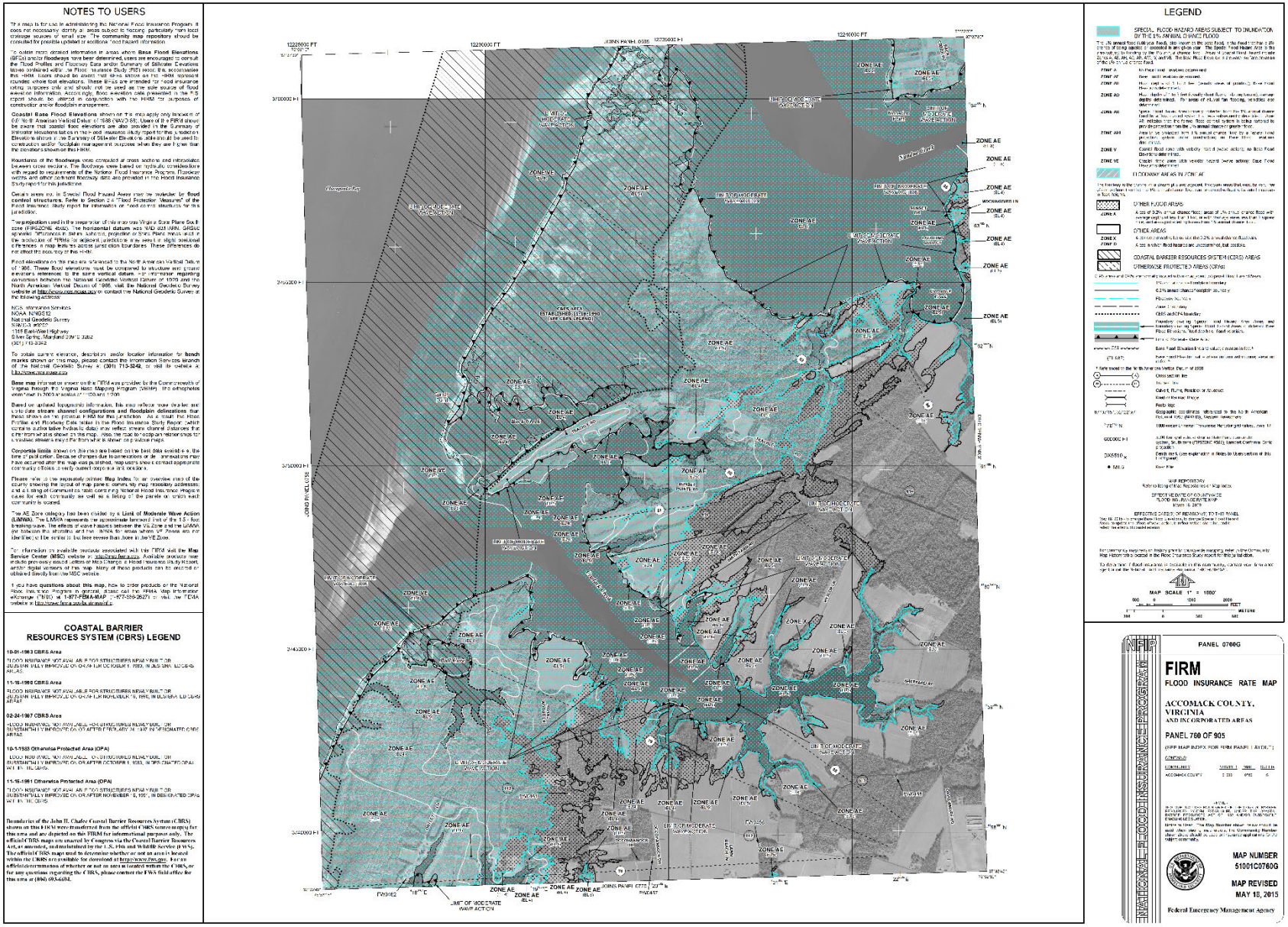
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Accomack County Unincorporated Areas 510001
ZONE AE
ZONE AO
ZONE VE
LEGEND
SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
OTHER FLOOD AREAS
OTHER AREAS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAS)
MAP SCALE 1" = 1000'
PANEL 0665G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 665 OF 905
MAP NUMBER 51001C0665G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Accomack County
Unincorporated Areas
510001
JOINS PANEL 0595
JOINS PANEL 0550
ZONE AE
ZONE VE
PANEL 0755G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 755 OF 905
MAP NUMBER
51001C0755G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
PANEL 0760G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 760 OF 905
MAP NUMBER
51001C0760G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
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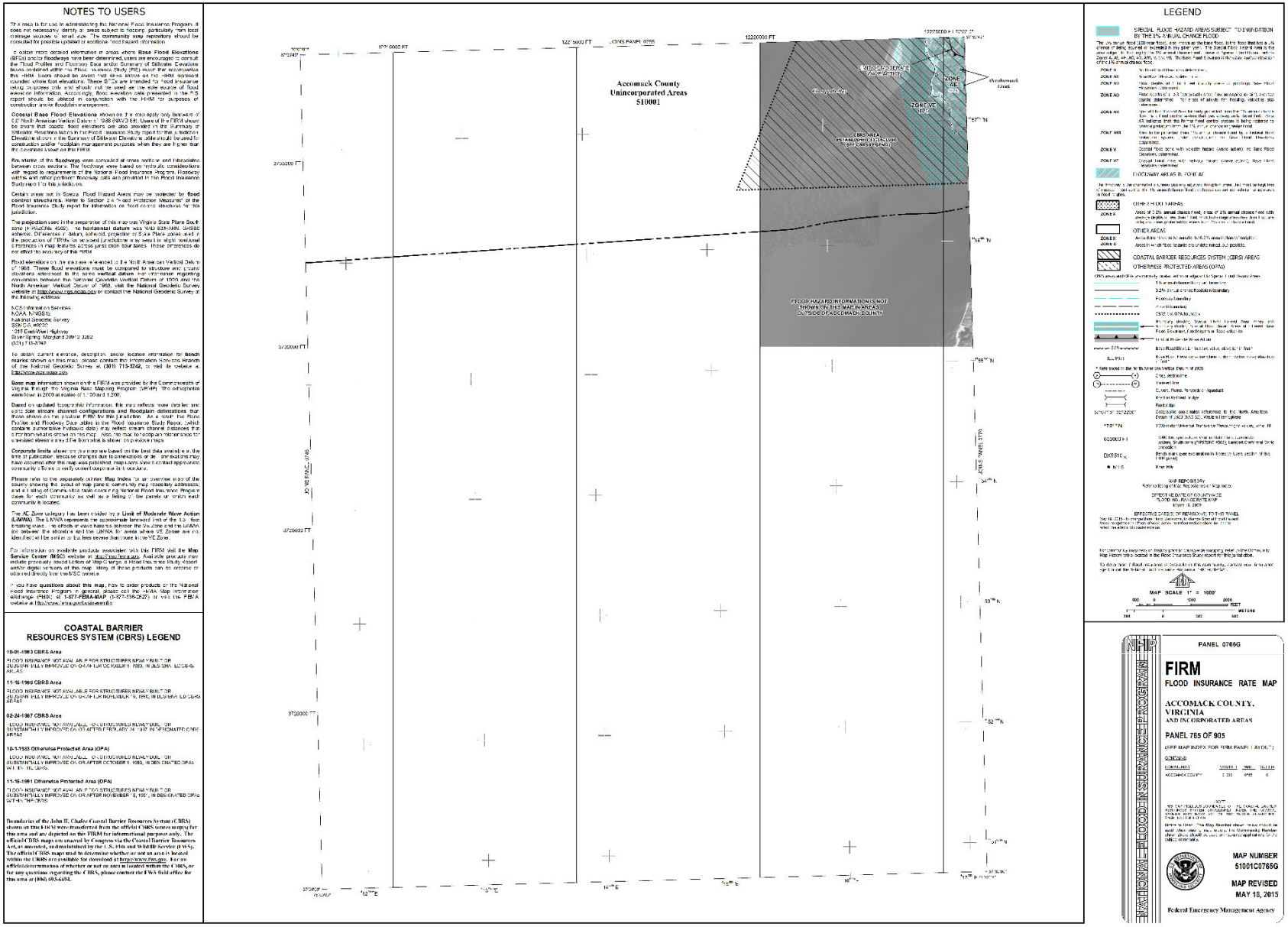
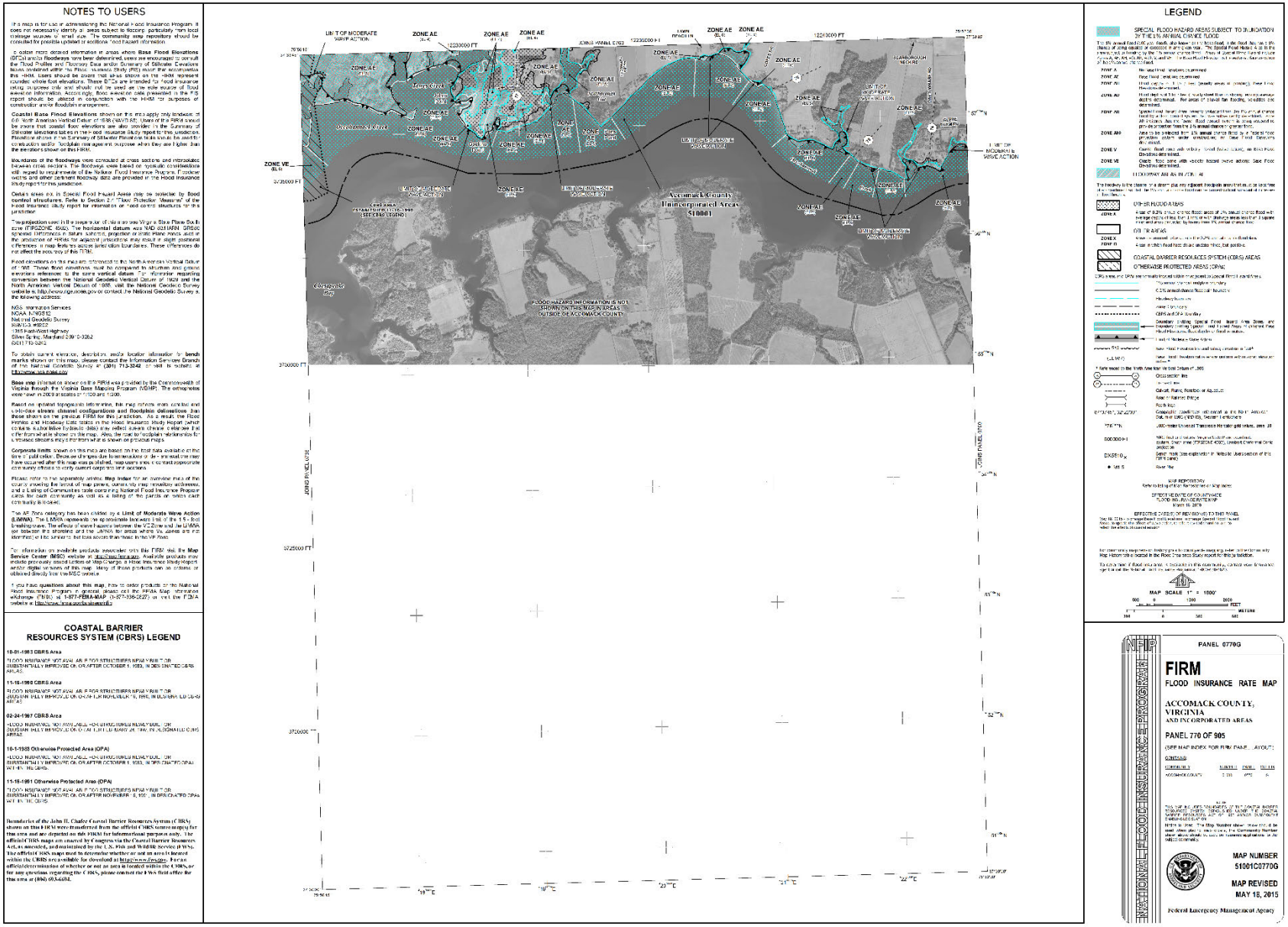
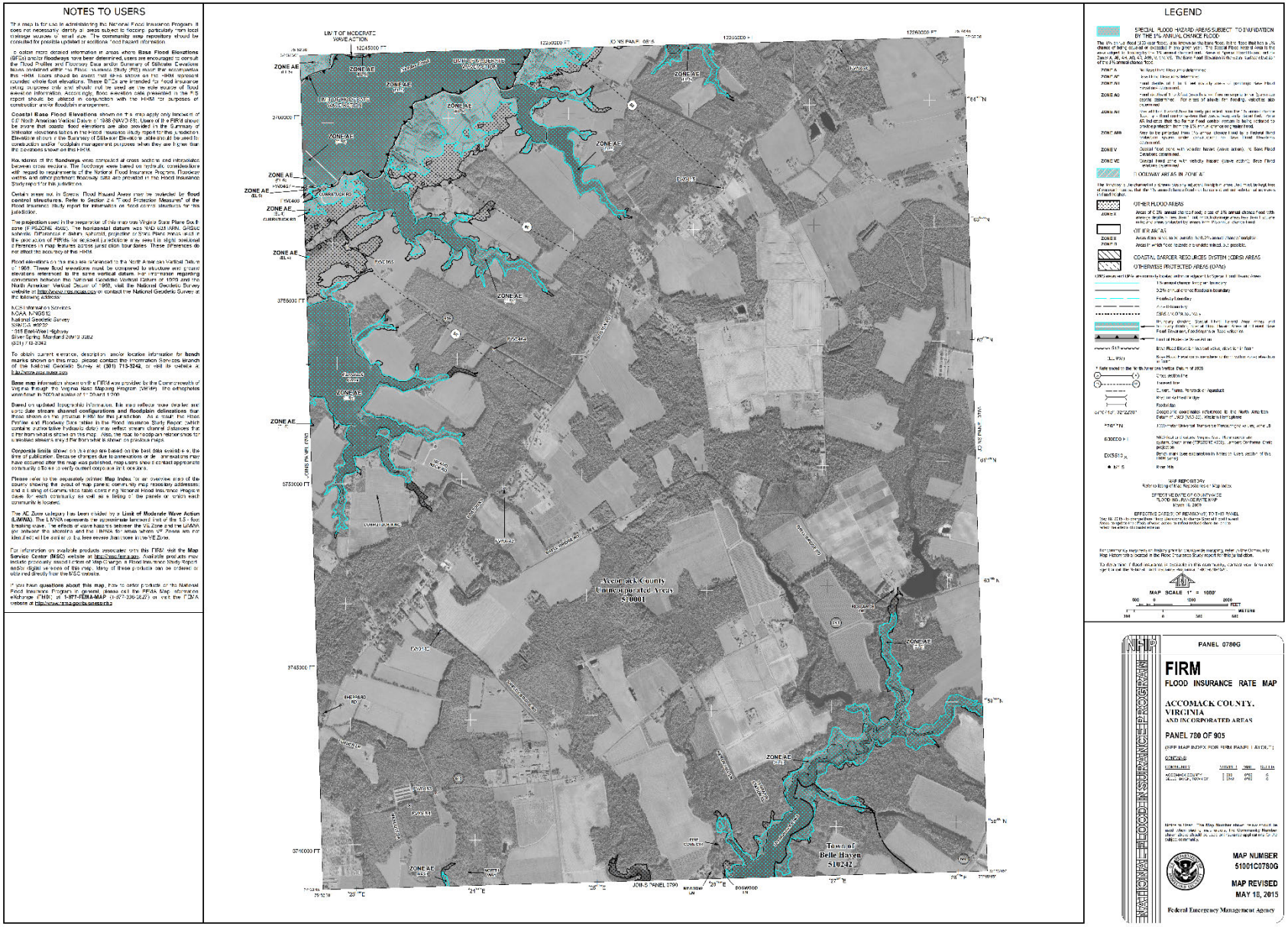
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Accomack County
Unincorporated Areas
510001
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
LEGEND
PANEL 0765G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 765 OF 905
MAP NUMBER
51001C0765G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

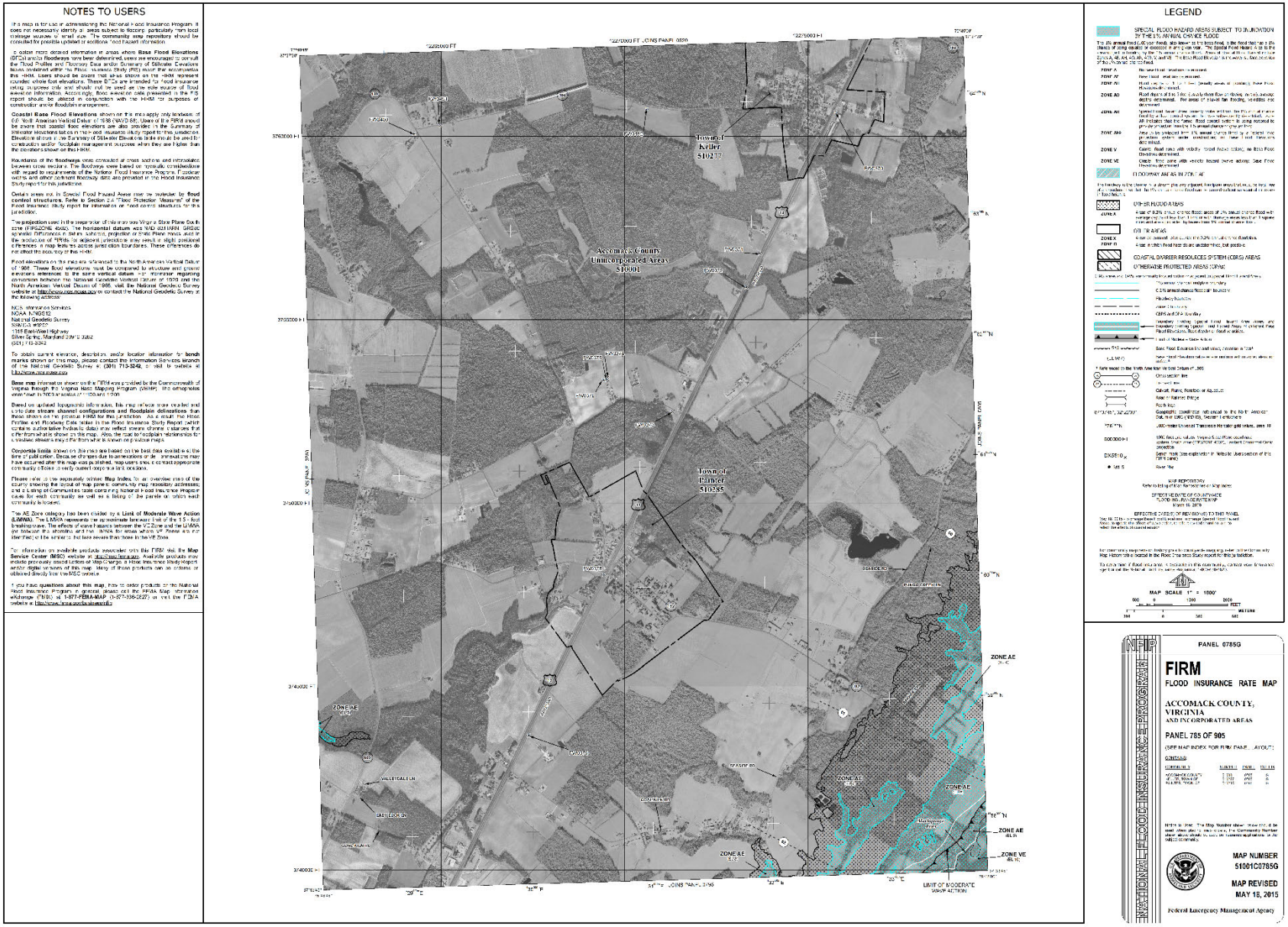
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Accomack County
Unincorporated Areas
510001
LEGEND
SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
OTHER FLOOD AREAS
OTHER AREAS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPA)
MAP SCALE 1" = 1000'
PANEL 0770G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 770 OF 905
MAP NUMBER
51001C0770G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

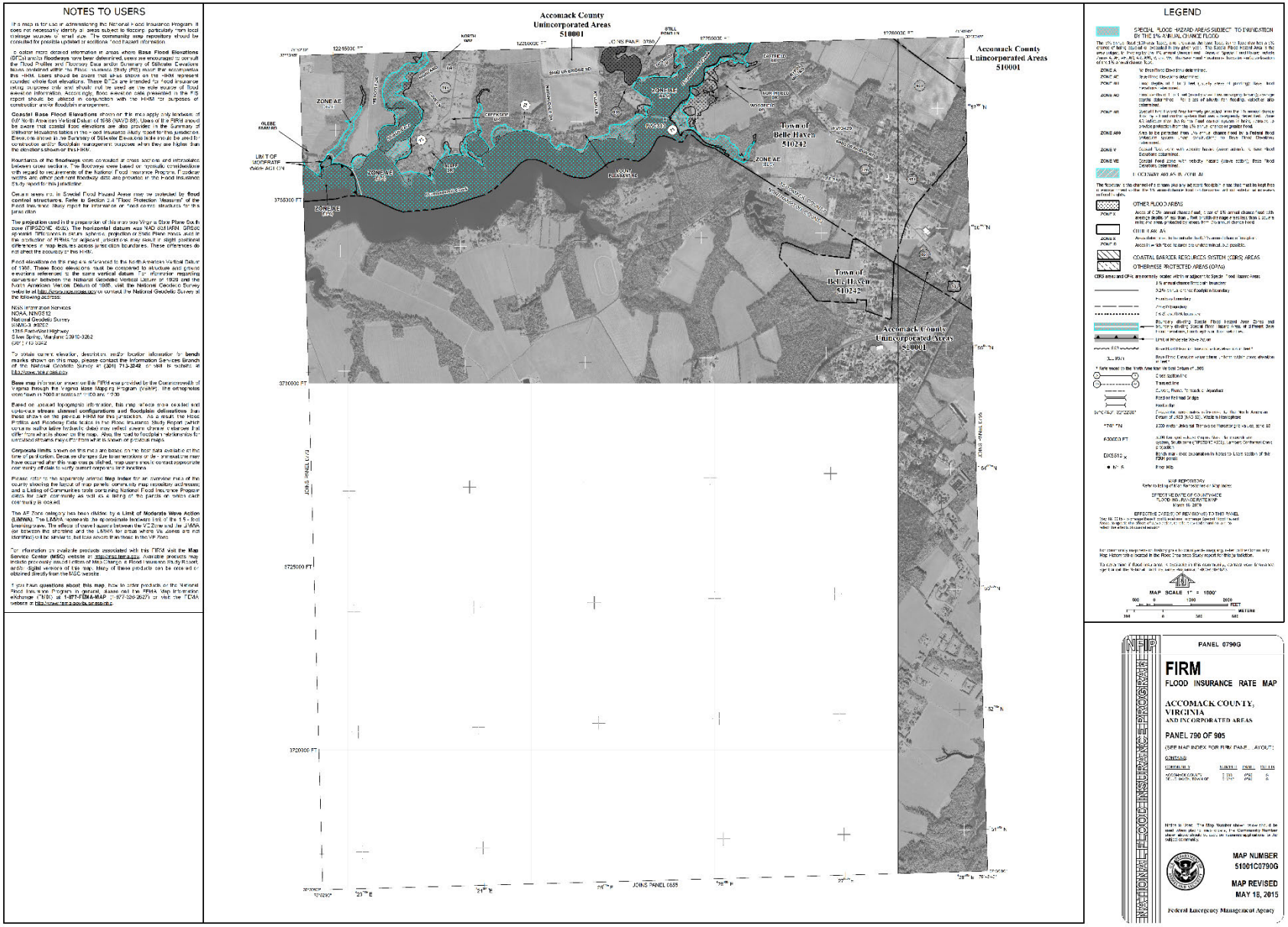
APPENDIX E


NOTES TO USERS
LEGEND
PANEL 0780G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 780 OF 905
MAP NUMBER
51001C0780G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
Accomack County
Unincorporated Areas
510001
Town of
Belle Haven
510242
ZONE AE

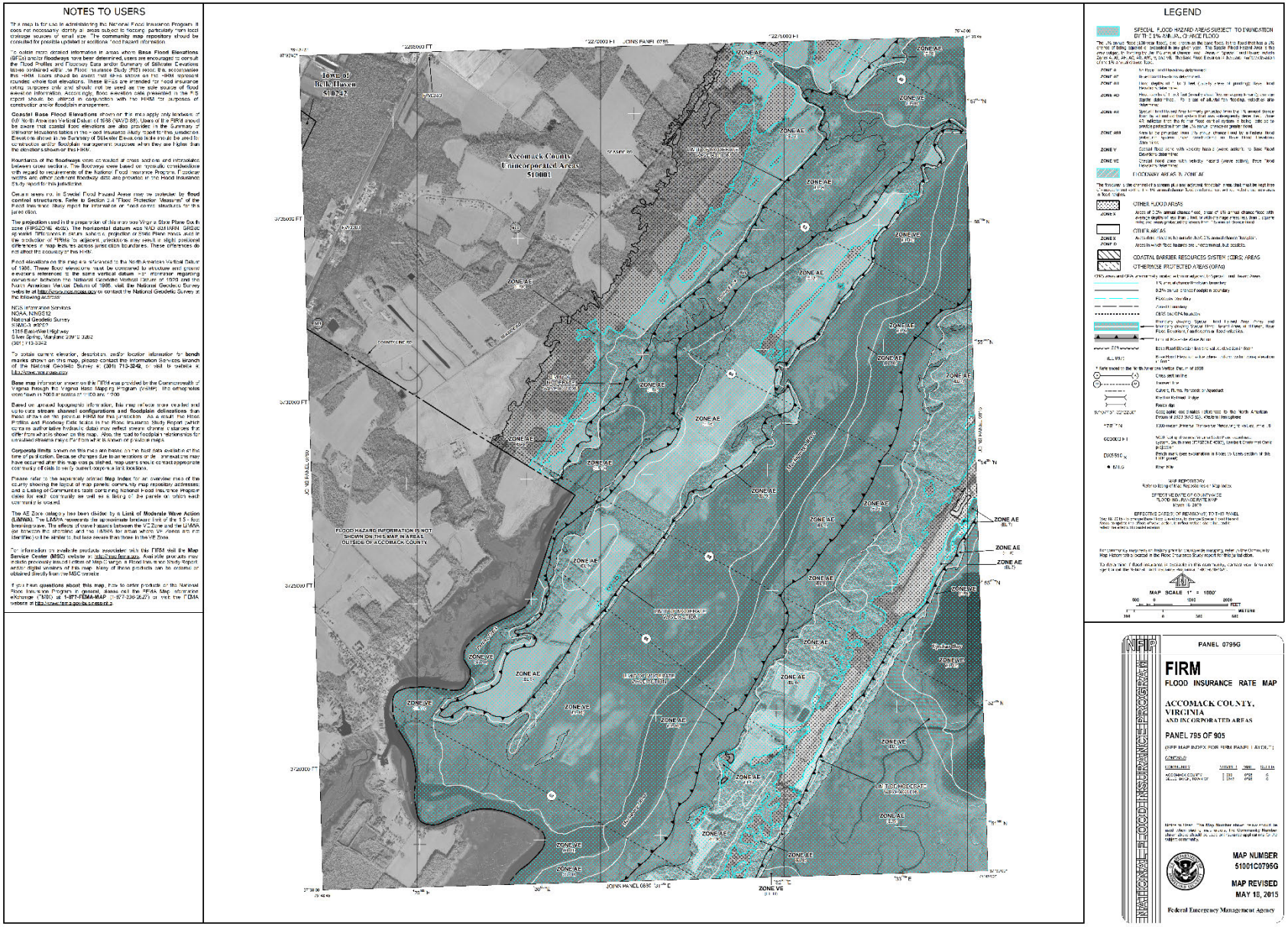
APPENDIX E


NOTES TO USERS
LEGEND
Accomack County
Unincorporated Areas
510001
Town of
Keller
510277
Town of
Painter
510285
ZONE AE
ZONE VE
LIMIT OF MODERATE WAVE ACTION
PANEL 0785G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY,
VIRGINIA
AND INCORPORATED AREAS
PANEL 785 OF 905
MAP NUMBER
51001C0785G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX E


NOTES TO USERS
Accomack County
Unincorporated Areas
510001
Town of
Belle Haven
510242
ZONE AE
LEGEND
PANEL 0790G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY,
VIRGINIA
AND INCORPORATED AREAS
PANEL 790 OF 905
MAP NUMBER
51001C0790G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
Town of Belle Haven 510247
Accomack County Unincorporated Areas 510001
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
ZONE AE
ZONE VE
LEGEND
MAP SCALE 1" = 1000'
PANEL 0795G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 795 OF 905
MAP NUMBER 51001C0795G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency
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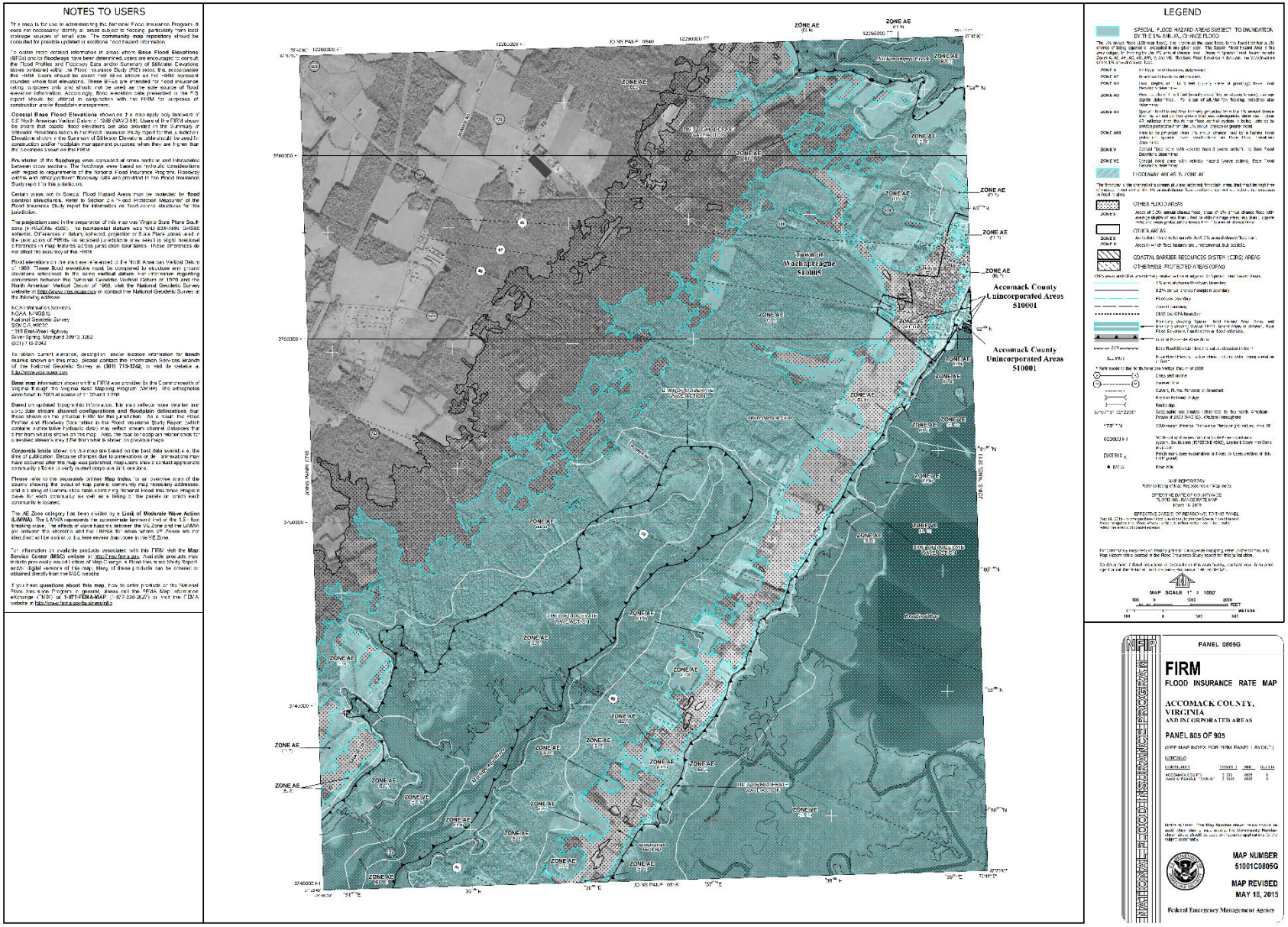
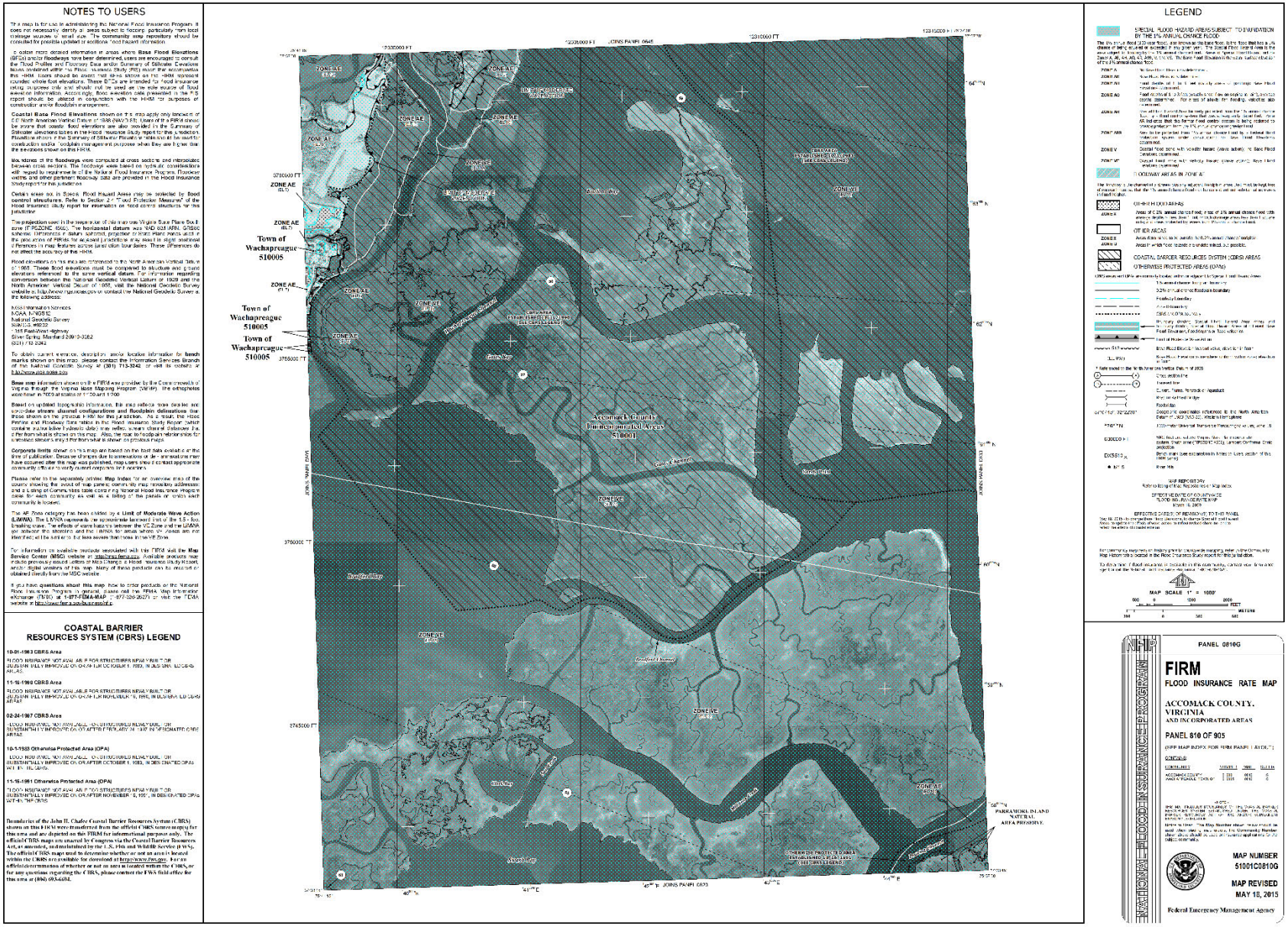
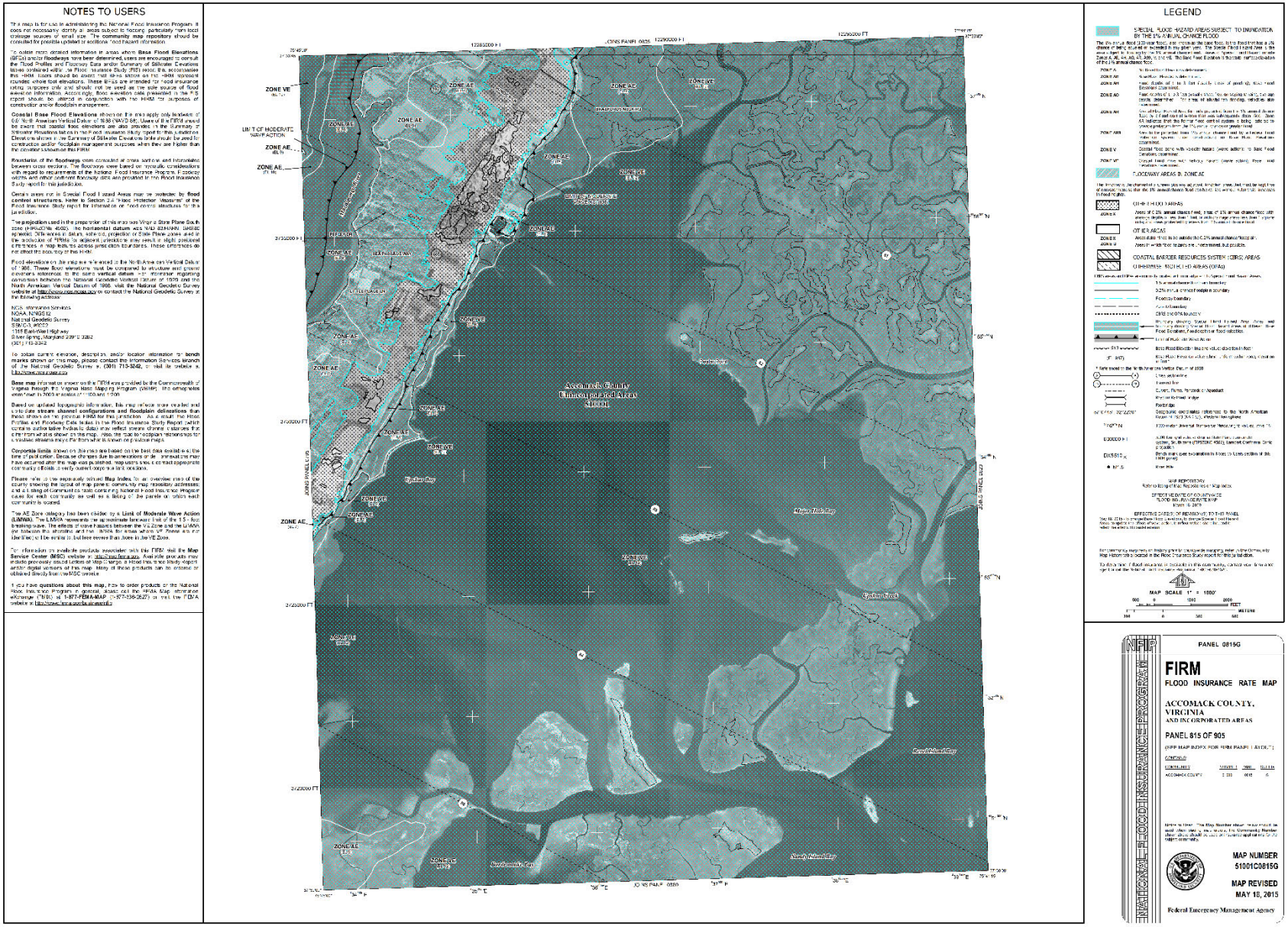

NOTES TO USERS
LEGEND
Town of Wachapreague 510005
Accomack County Unincorporated Areas 510001
Accomack County Unincorporated Areas 510001
ZONE AE
ZONE VE
PANEL 0805G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 805 OF 905
MAP NUMBER 51001C0805G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Town of Wachapreague 510005
Town of Wachapreague 510005
Town of Wachapreague 510005
Accomack County Unincorporated Areas 510001
ZONE AE
ZONE VE
PARRAMORE ISLAND NATURAL AREA PRESERVE
OTHERWISE PROTECTED AREA (OPA) (PARRAMORE ISLAND) (CBRS/OPA LEGEND)
JOHNS PANEL 0645
JOHNS PANEL 0820
PANEL 0810G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 810 OF 905
MAP NUMBER 51001C0810G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX E


NOTES TO USERS
LEGEND
ZONE VE
ZONE AE
LIMIT OF MODERATE WAVE ACTION
Accomack County Unincorporated Areas
51001C
JOINS PANEL 0825
JOINS PANEL 0830
PANEL 0815G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 815 OF 905
MAP NUMBER
51001C0815G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX E

NOTES TO USERS

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

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

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations 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 for this jurisdiction.

The **projection** used in the preparation of this map was Virginia State Plane South zone. The **horizontal datum** was NAD 83/HARN, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

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

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

Base map information shown on this FIRM was provided by the Commonwealth of Virginia through the Virginia Base Mapping Program (VBMP). The orthophotos were flown in 2009 at scales of 1:100 and 1:200.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

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

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

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

COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND

10-01-1983 CBRS Area

FLOOD INSURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR SUBSTANTIALLY IMPROVED ON OR AFTER OCTOBER 1, 1983, IN DESIGNATED CBRS AREAS.

11-16-1990 CBRS Area

FLOOD INSURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR SUBSTANTIALLY IMPROVED ON OR AFTER NOVEMBER 16, 1990, IN DESIGNATED CBRS AREAS.

02-24-1997 CBRS Area

FLOOD INSURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR SUBSTANTIALLY IMPROVED ON OR AFTER FEBRUARY 24, 1997, IN DESIGNATED CBRS AREAS.

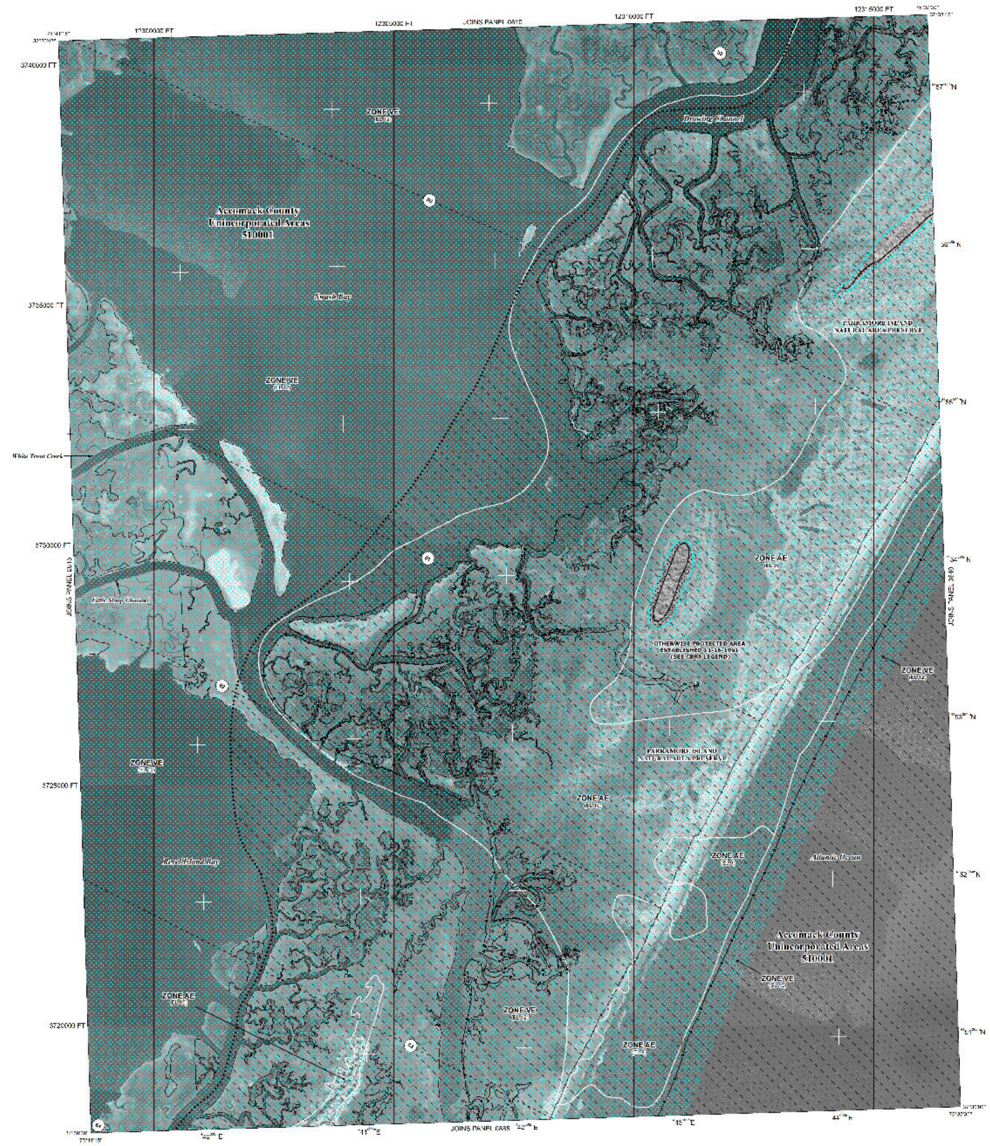
10-1-1983 Otherwise Protected Area (OPA)

FLOOD INSURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR SUBSTANTIALLY IMPROVED ON OR AFTER OCTOBER 1, 1983, IN DESIGNATED OPAs WITHIN THE CBRS.

11-16-1991 Otherwise Protected Area (OPA)

FLOOD INSURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR SUBSTANTIALLY IMPROVED ON OR AFTER NOVEMBER 16, 1991, IN DESIGNATED OPAs WITHIN THE CBRS.

Boundaries of the John H. Chafee Coastal Barrier Resources System (CBRS) shown on this FIRM were transferred from the official CBRS source map(s) for this area and are depicted on this FIRM for informational purposes only. The official CBRS maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and maintained by the U.S. Fish and Wildlife Service (FWS). The official CBRS maps used to determine whether or not an area is located within the CBRS are available for download at https://www.fws.gov. For an official determination of whether or not an area is located within the CBRS, or for any questions regarding the CBRS, please contact the FWS field office for this area at (804) 693-6694.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 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 is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation 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 AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
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	Special Flood Hazard Area formerly protected from the 1% annual chance flood 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.
ZONE A99	Area to be protected from 1% annual chance flood 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.

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 increases 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.

OTHER AREAS

ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D — 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 Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Limit of Moderate Wave Action
- ~~~ 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 American Vertical Datum of 1988

- Cross section line
- Transect line
- Culvert, Flume, Penstock or Aqueduct
- Road or Railroad Bridge
- Footbridge
- 97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 4275000 N 1000-meter Universal Transverse Mercator grid values, zone 18
- 600000 FT 5000-foot grid values: Virginia State Plane coordinate system, South zone (FIPSZONE 4502), Lambert Conformal Conic projection
- DX5510 × Bench mark (see explanation in Notes to Users section of this FIRM panel)
- • M1.5 River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
March 16, 2009

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
May 18, 2015 - to change Base Flood Elevations, to change Special Flood Hazard Areas, to update the Limits of wave action, to reflect revised shoreline, and to reflect the effects of coastal erosion.

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 1-800-638-6620.

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET
300 0 300 600 METERS

NATIONAL FLOOD INSURANCE PROGRAM

NFIP

PANEL 0820G

FIRM

FLOOD INSURANCE RATE MAP

ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS

PANEL 820 OF 905

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ACCOMACK COUNTY	510001	0820	G

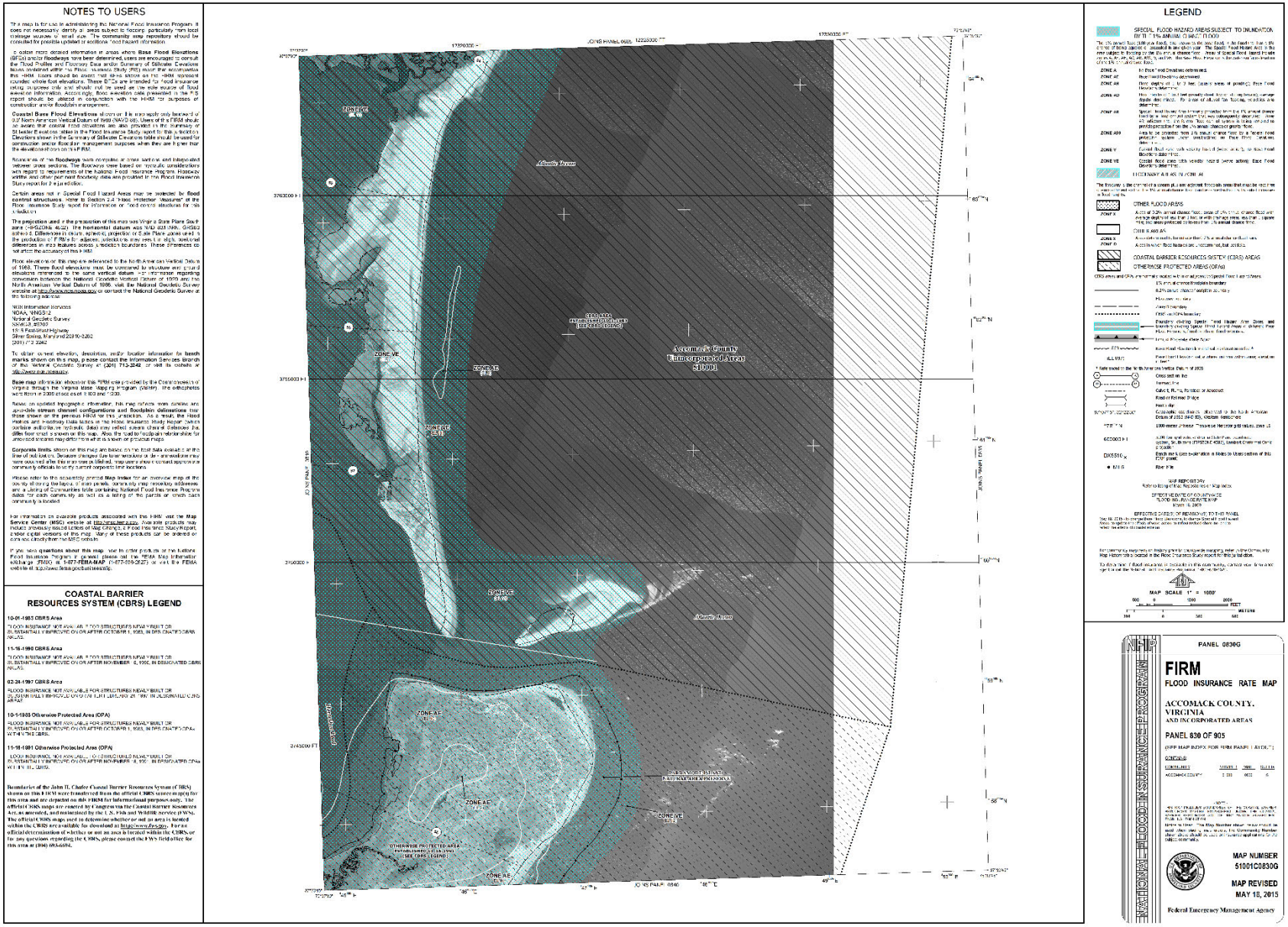
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
51001C0820G

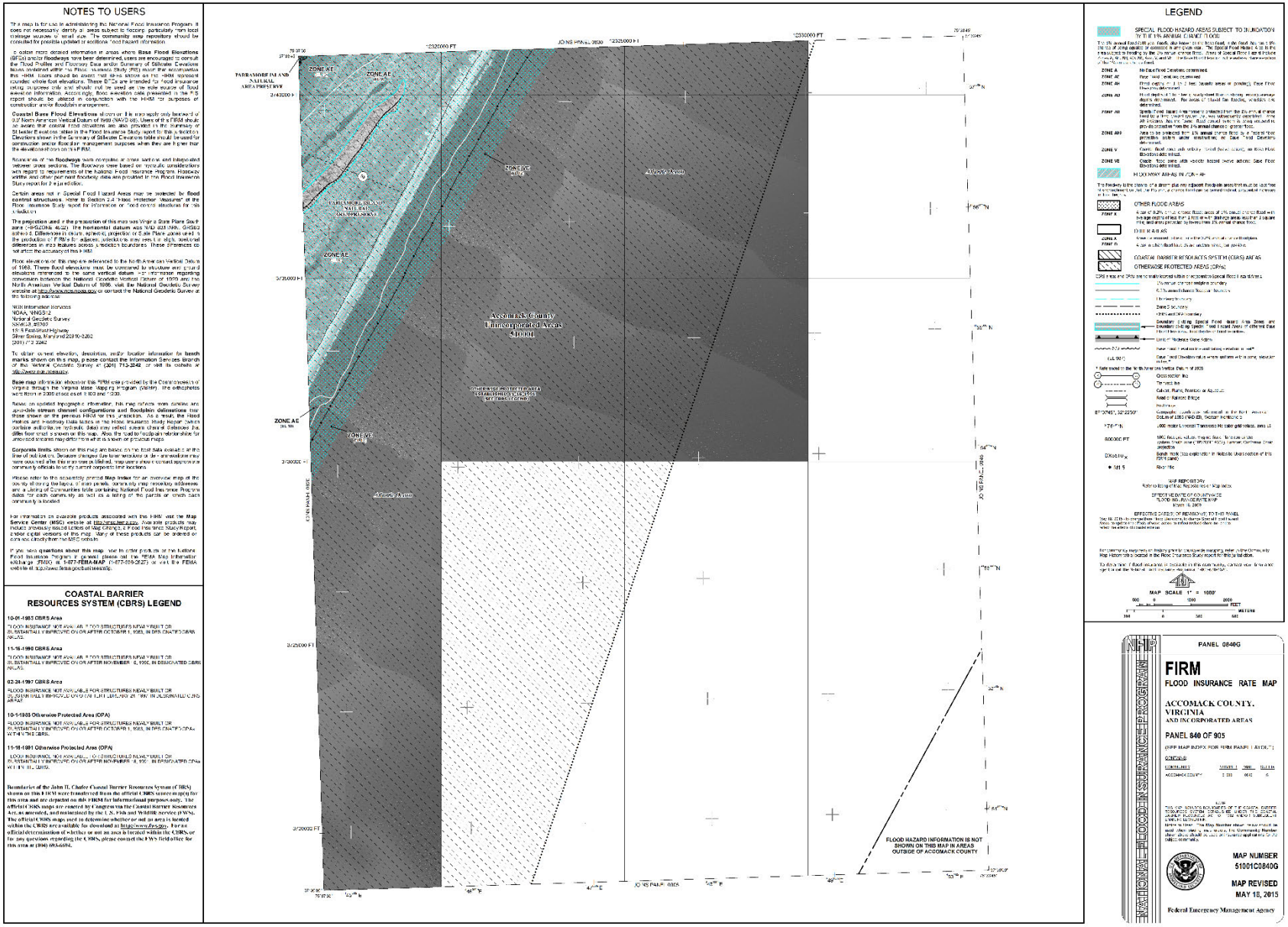
MAP REVISED
MAY 18, 2015

Federal Emergency Management Agency

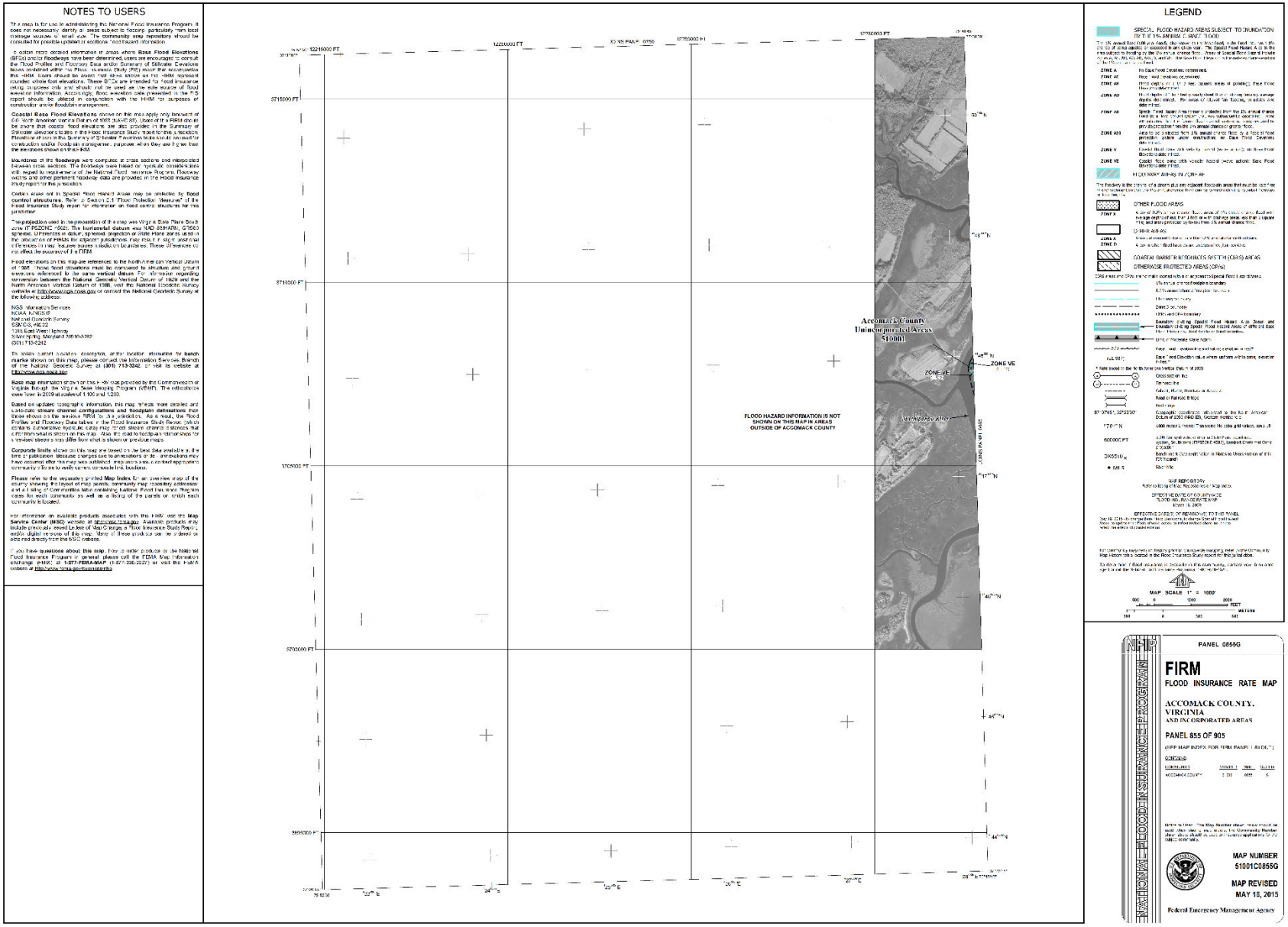
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Atlantic Ocean
Accomack County Unincorporated Areas 510001
ZONE VE
ZONE AE
ZONE AE (EL 7)
ZONE AE (EL 9)
ZONE AE (EL 8)
ZONE AE (EL 6)
ZONE AE (EL 5)
ZONE VE (EL 8)
OTHERWISE PROTECTED AREA
JOINS PANEL 0840
JOINS PANEL 0835
JOINS PANEL 0845
MAP SCALE 1" = 1000'
PANEL 0830G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 830 OF 905
MAP NUMBER 51001C0830G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

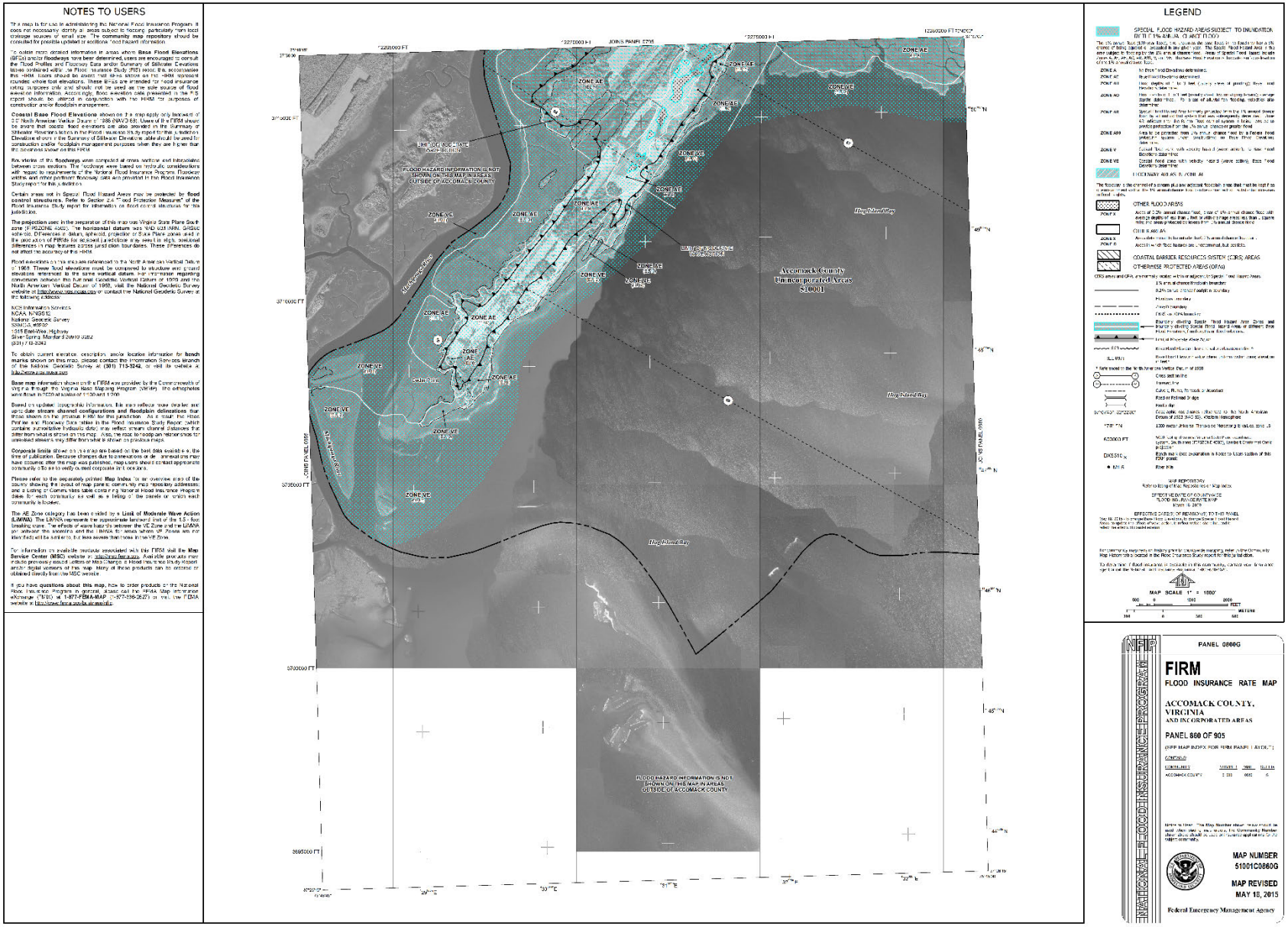
APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
ZONE AE
ZONE VE
Accomack County Unincorporated Areas
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
LEGEND
MAP SCALE 1" = 1000'
PANEL 0840G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 840 OF 905
MAP NUMBER 51001C0840G
MAP REVISED MAY 18, 2015
Federal Emergency Management Agency

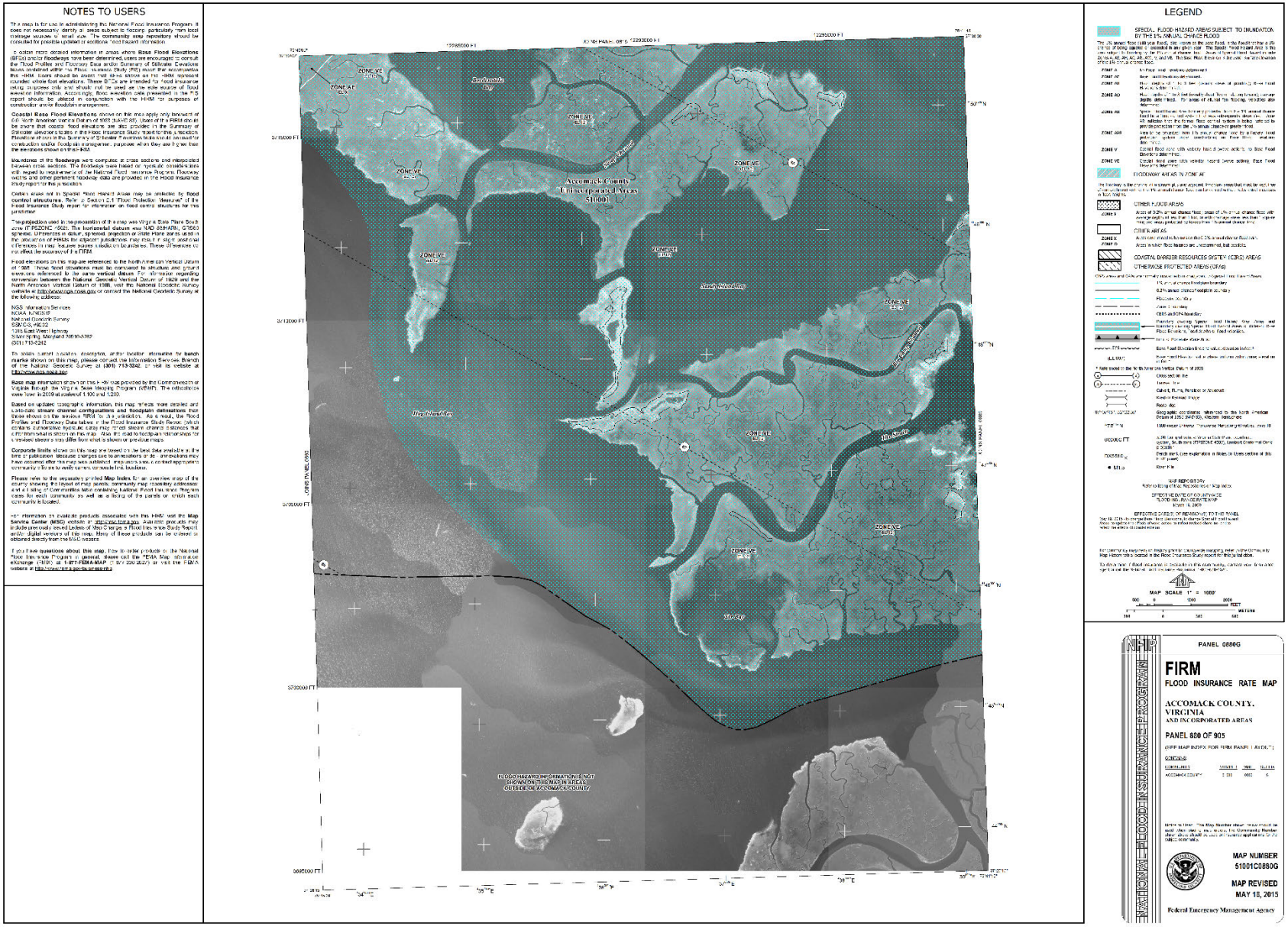
APPENDIX E


NOTES TO USERS
LEGEND
Accomack County
Unincorporated Areas
510001
FLOOD HAZARD INFORMATION IS NOT
SHOWN ON THIS MAP IN AREAS
OUTSIDE OF ACCOMACK COUNTY
ZONE VE
MAP SCALE 1" = 1000'
PANEL 0855G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY,
VIRGINIA
AND INCORPORATED AREAS
PANEL 855 OF 905
MAP NUMBER
51001C0855G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

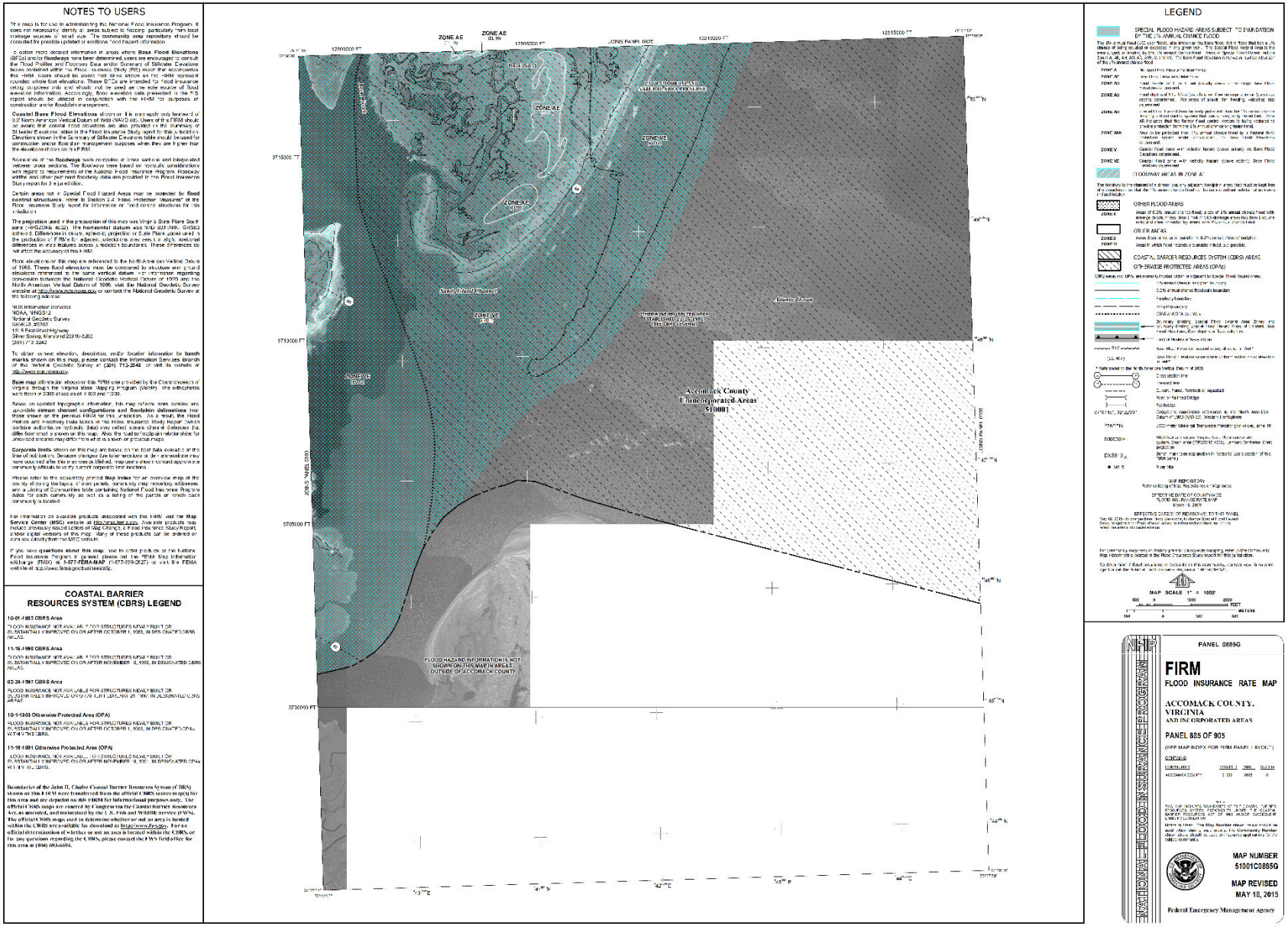
APPENDIX E


NOTES TO USERS
LEGEND
PANEL 0860G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 860 OF 905
MAP NUMBER
51001C0860G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM
ZONE AE
ZONE VE
Big Mud Bay
Accomack County
Unincorporated Areas
51001
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY

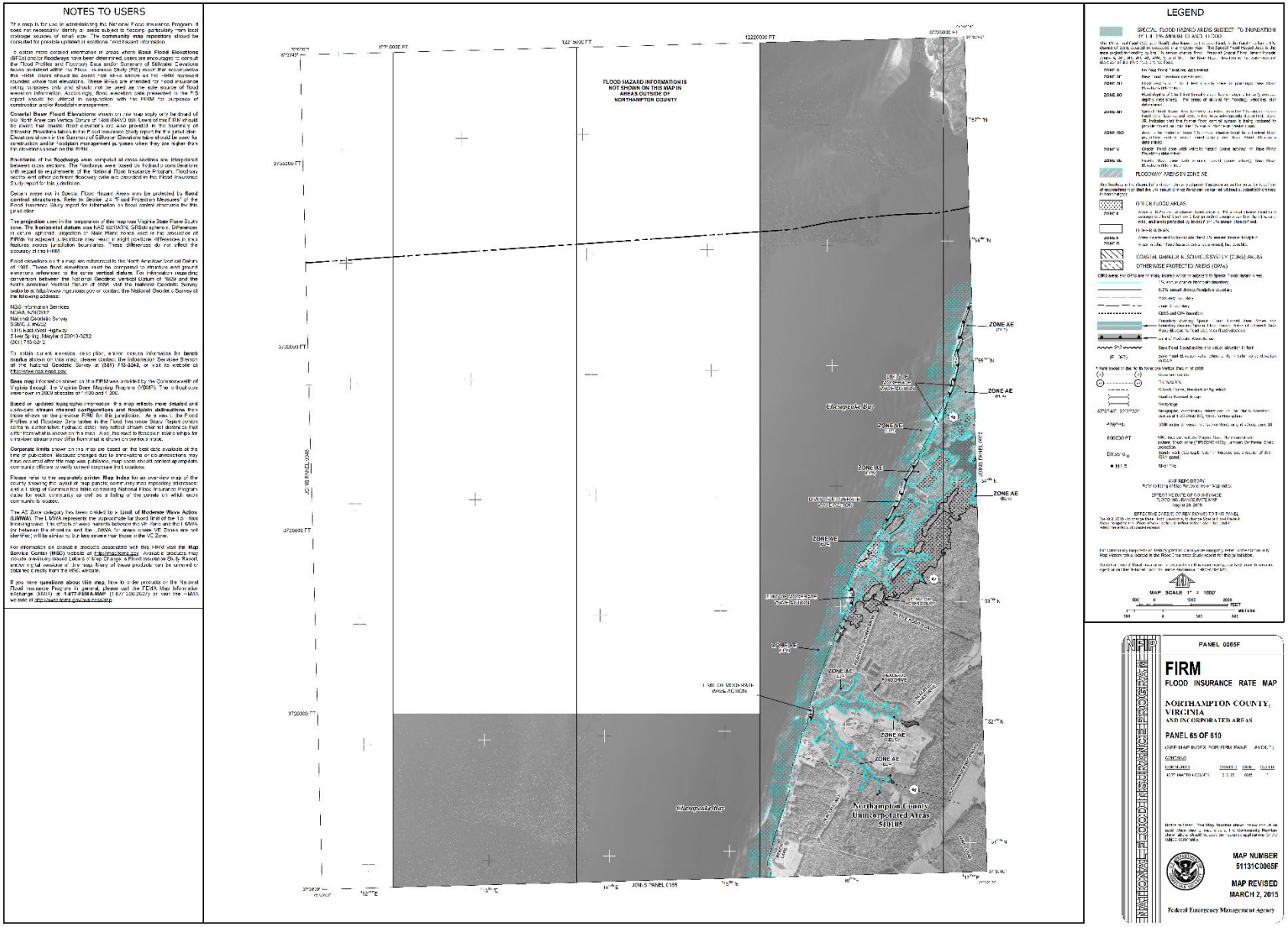
APPENDIX E


NOTES TO USERS
LEGEND
Accomack County
Unincorporated Areas
510001
ZONE VE
ZONE AE
Hindmarsh Bay
Sand Island Bay
Big Long Creek
Little Long Creek
Big Island Bay
Little Creek
Tar Bay
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
MAP SCALE 1" = 1000'
PANEL 0880G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 880 OF 905
MAP NUMBER
51001C0880G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX E


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
ZONE AE
ZONE VE
Accomack County
Unincorporated Areas
510001
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ACCOMACK COUNTY
LEGEND
OTHER FLOOD AREAS
OTHER AREAS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHER SPECIAL PROTECTED AREAS (OPAs)
MAP SCALE 1" = 1000'
PANEL 0885G
FIRM
FLOOD INSURANCE RATE MAP
ACCOMACK COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 885 OF 905
MAP NUMBER
51001C0885G
MAP REVISED
MAY 18, 2015
Federal Emergency Management Agency

APPENDIX F


NOTES TO USERS
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF NORTHAMPTON COUNTY
LEGEND
ZONE AE
ZONE VE
Chesapeake Bay
Northampton County Unincorporated Areas 510105
PANEL 0065F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 65 OF 610
MAP NUMBER 51131C0065F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

APPENDIX F

NOTES TO USERS

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

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

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations 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 for this jurisdiction.

The **projection** used in the preparation of this map was Virginia State Plane South zone. The **horizontal datum** was NAD 83/HARN, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

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

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

Base map information shown on this FIRM was provided by the Commonwealth of Virginia through the Virginia Base Mapping Program (VBMP). The orthophotos were flown in 2009 at scales of 1:100 and 1:200.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

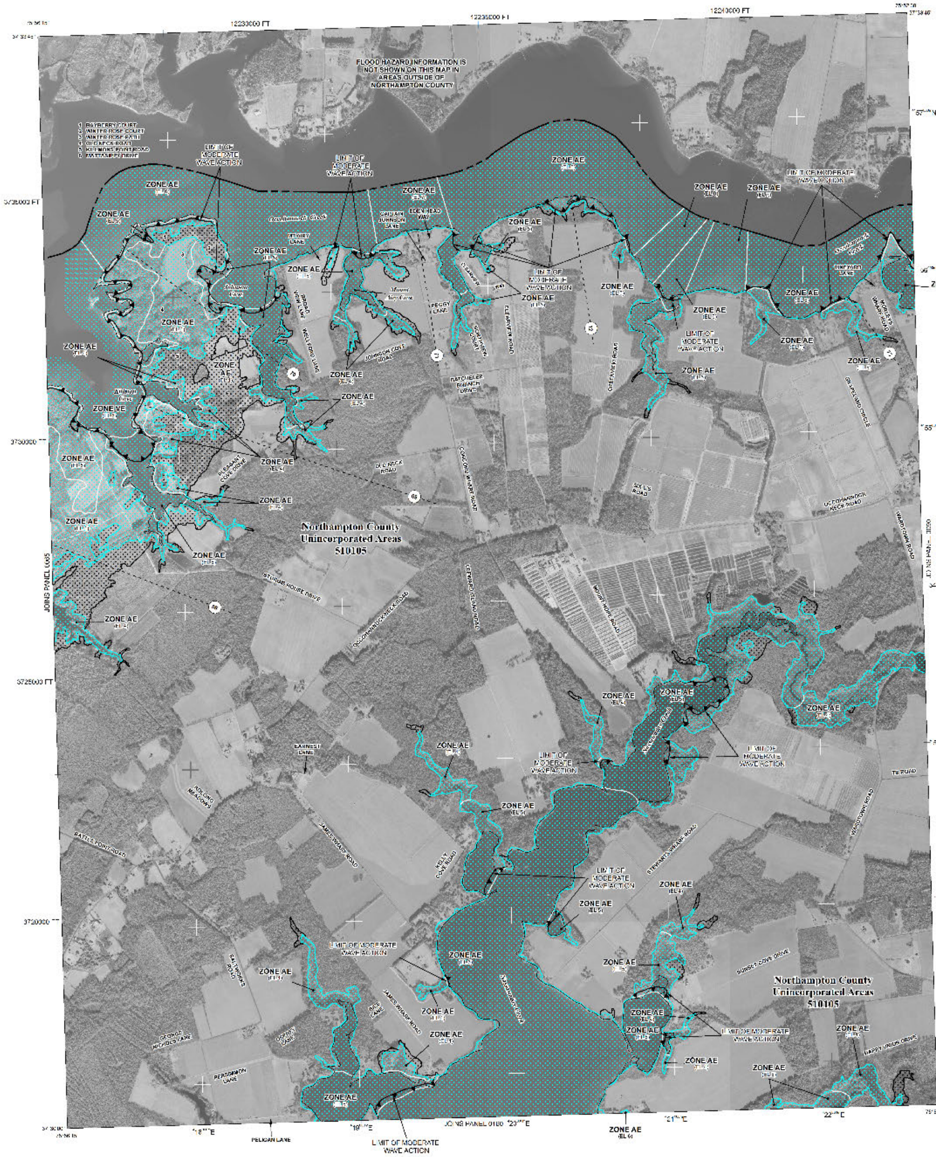
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

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.

The AE Zone category has been divided by a **Limit of Moderate Wave Action (LiMWA)**. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

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

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



LEGEND

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

The 1% annual chance 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 is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation 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 AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
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 — Special Flood Hazard Area formerly protected from the 1% annual chance flood 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.
ZONE A99 — Area to be protected from 1% annual chance flood 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.

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 increases 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.

OTHER AREAS

ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

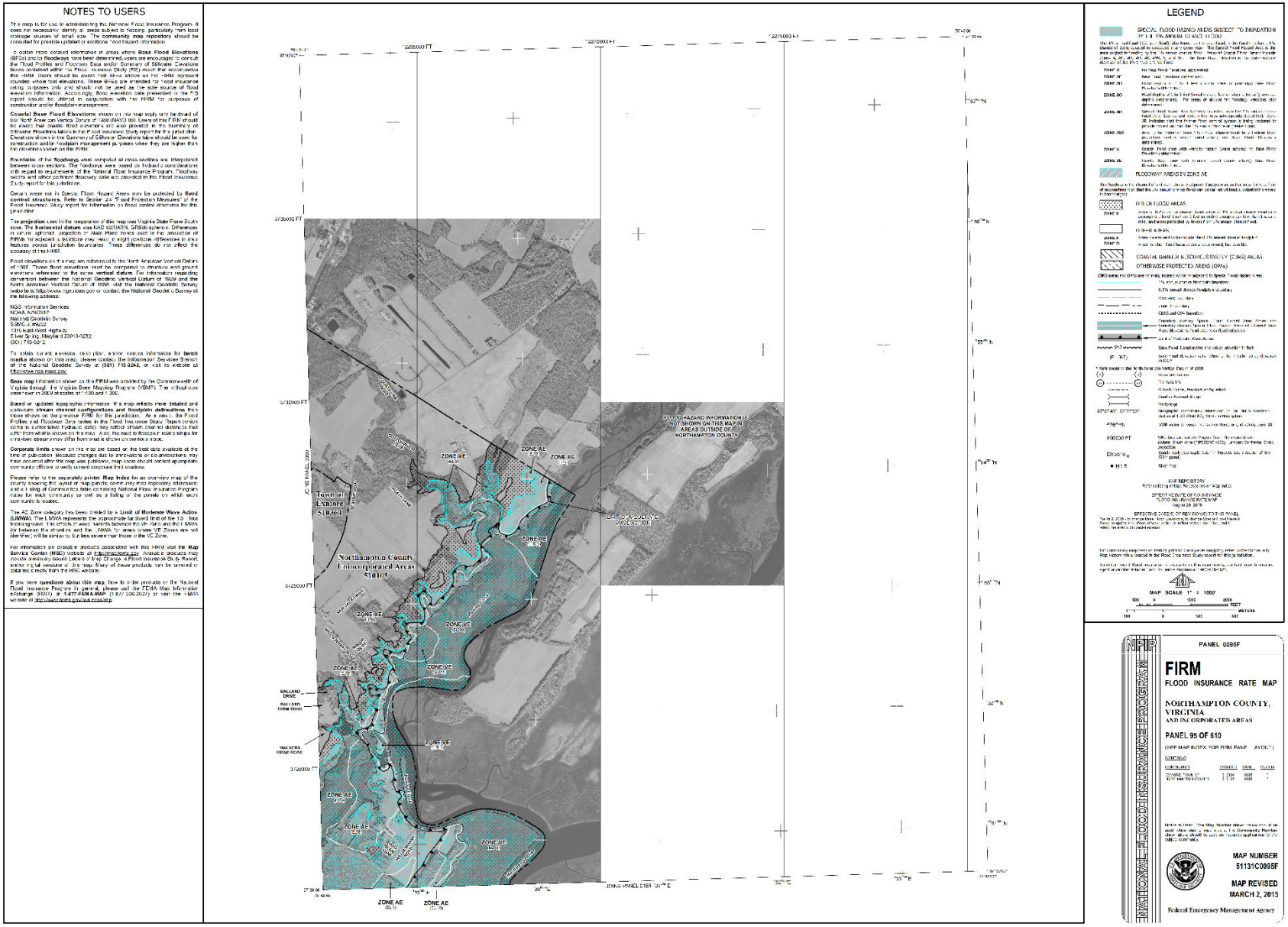
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

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 Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
Limit of Moderate Wave Action
~~~ 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 American Vertical Datum of 1988

(A)——(A) Cross section line
(23)- - - -(23) Transect line
Culvert, Flume, Penstock or Aqueduct
Road or Railroad Bridge
Footbridge
87°07'45", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
4276000 N 1000-meter Universal Transverse Mercator grid values, zone 18
600000 FT 5000-foot grid values: Virginia State Plane coordinate system, South zone (FIPSZONE 4502), Lambert Conformal Conic projection
DX5510 × Bench mark (see explanation in Notes to Users section of this FIRM panel)
• M1.5 River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
August 20, 2010

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
March 2, 2015 - to change Base Flood Elevations, to change Special Flood Hazard Areas, to update the effects of wave action, to reflect updated shoreline, and to reflect the effects of coastal erosion.

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 1-800-638-6620.

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET
300 0 300 600 METERS

NATIONAL FLOOD INSURANCE PROGRAM

NFIP

PANEL 0070F

FIRM
FLOOD INSURANCE RATE MAP

NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS

PANEL 70 OF 610

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
NORTHAMPTON COUNTY	510105	0070	F

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
51131C0070F

MAP REVISED
MARCH 2, 2015

Federal Emergency Management Agency
~~~

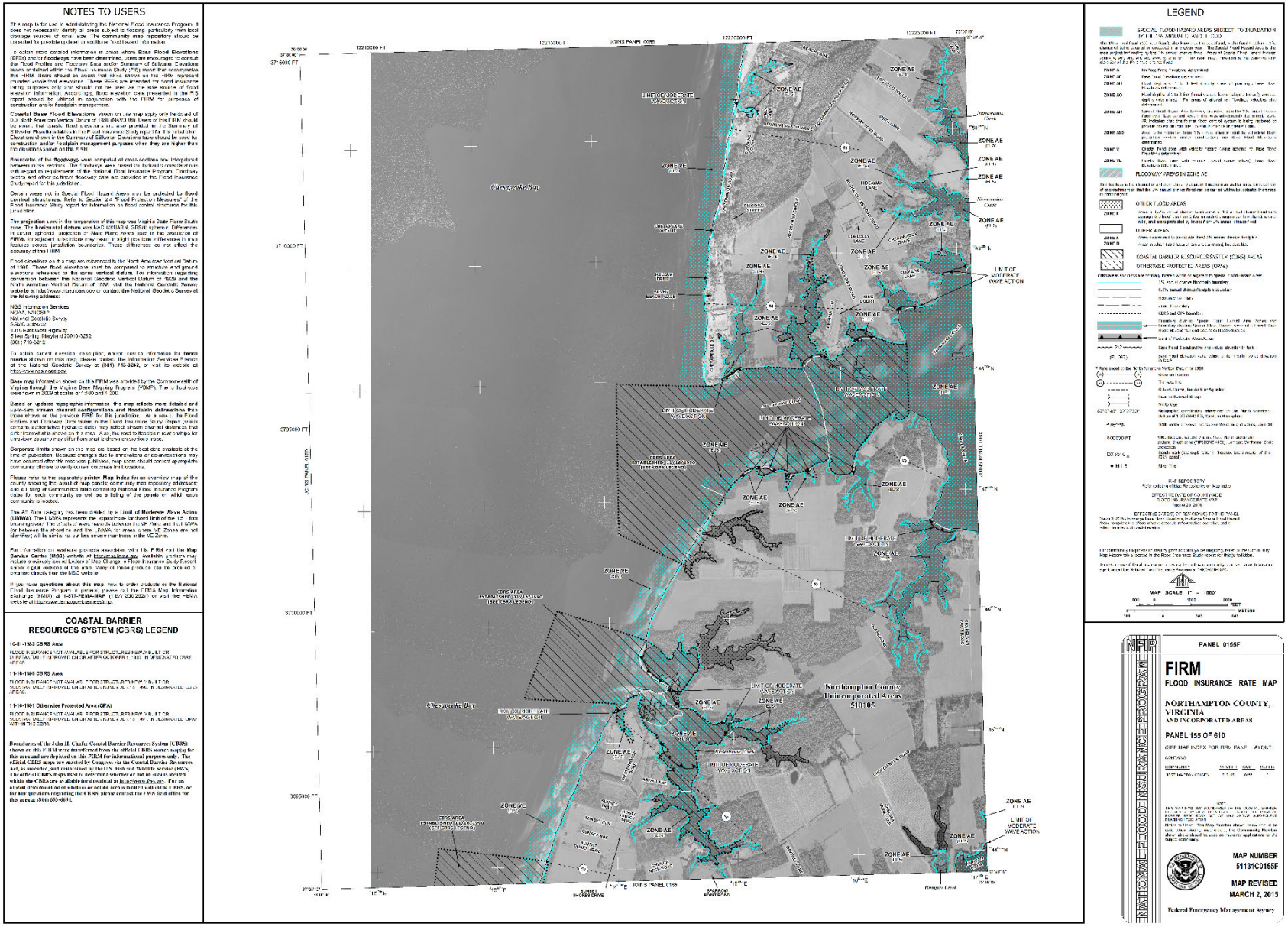
APPENDIX F

NOTES TO USERS
LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF NORTHAMPTON COUNTY
Northampton County Unincorporated Areas 510105
Town of Belle Haven
Town of Exmore 510364
ZONE AE
PANEL 0090F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 90 OF 610
MAP NUMBER 51131C0090F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

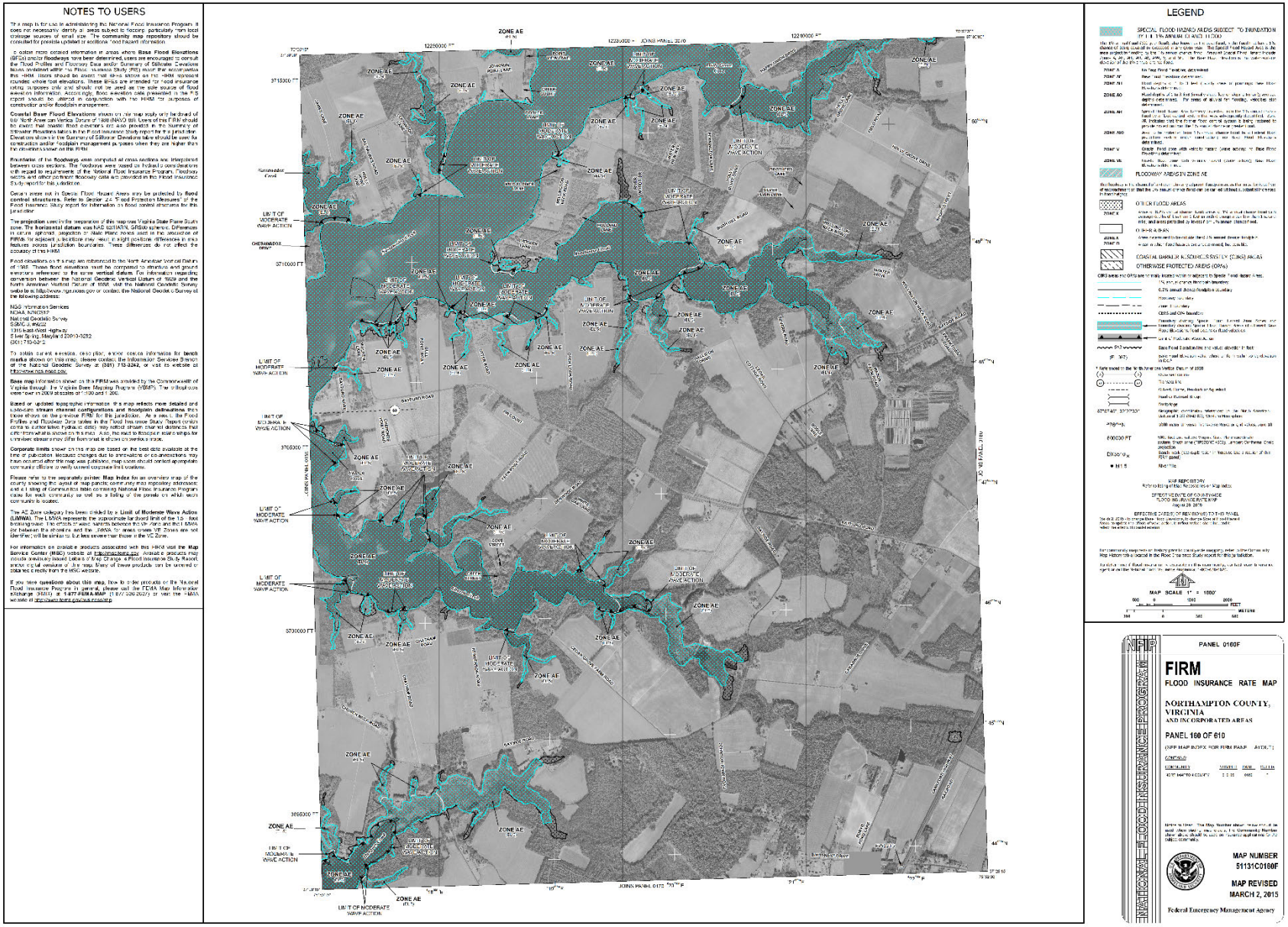
APPENDIX F


NOTES TO USERS
LEGEND
Town of Exmore
Northampton County, Unincorporated Areas
ZONE AE
ZONE VE
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF NORTHAMPTON COUNTY
MAP SCALE 1" = 1000'
PANEL 0095F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 95 OF 610
MAP NUMBER
51131C0095F
MAP REVISED
MARCH 2, 2015
Federal Emergency Management Agency

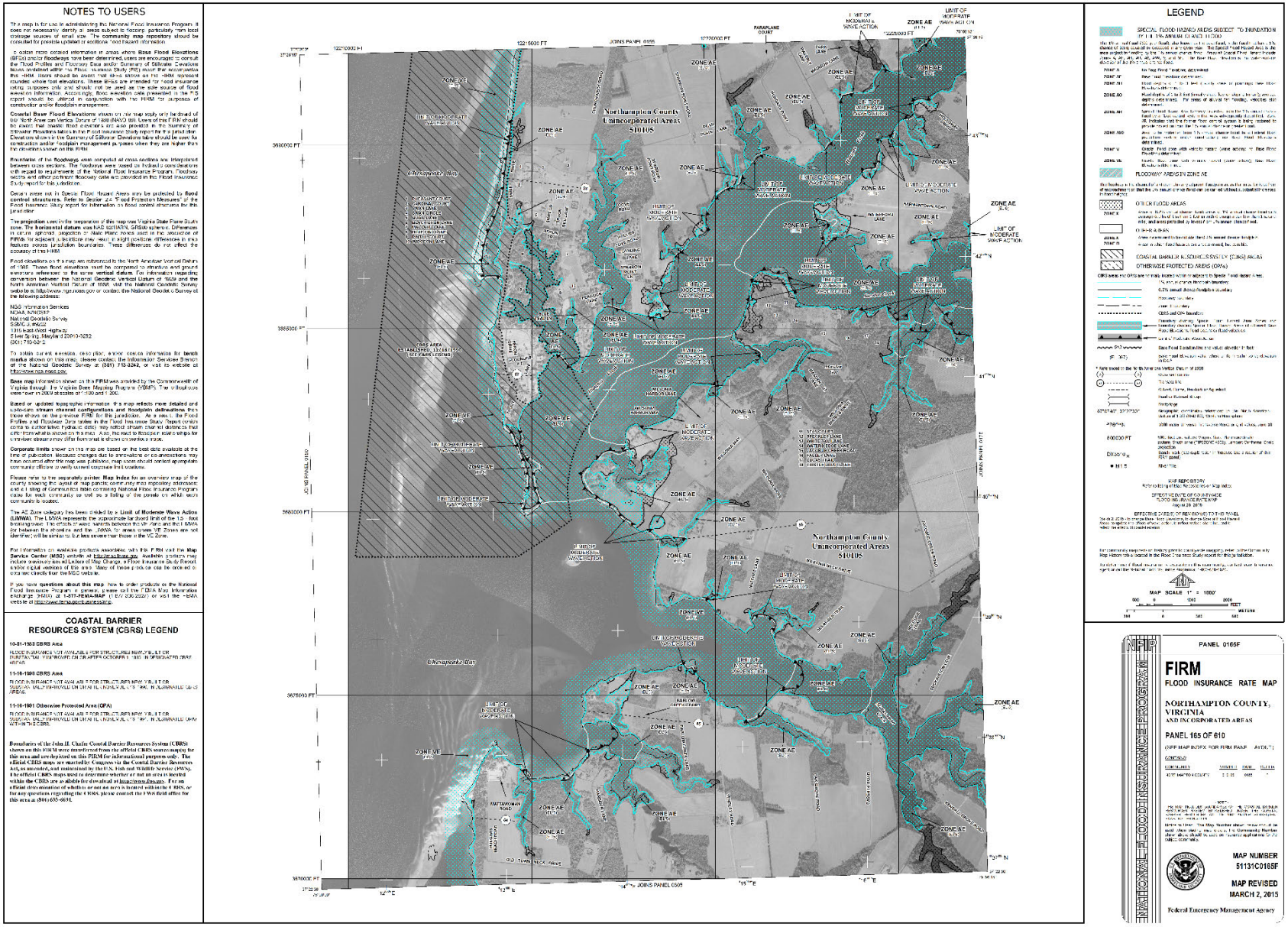
APPENDIX F


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Northampton County
Incorporated Areas
510105
Chesapeake Bay
ZONE AE
ZONE VE
LIMIT OF MODERATE WAVE ACTION
PANEL 0155F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 155 OF 610
MAP NUMBER
51131C0155F
MAP REVISED
MARCH 2, 2015
Federal Emergency Management Agency

APPENDIX F


NOTES TO USERS
LEGEND
ZONE AE
LIMIT OF MODERATE WAVE ACTION
PANEL 0160F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 160 OF 610
MAP NUMBER 51131C0160F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

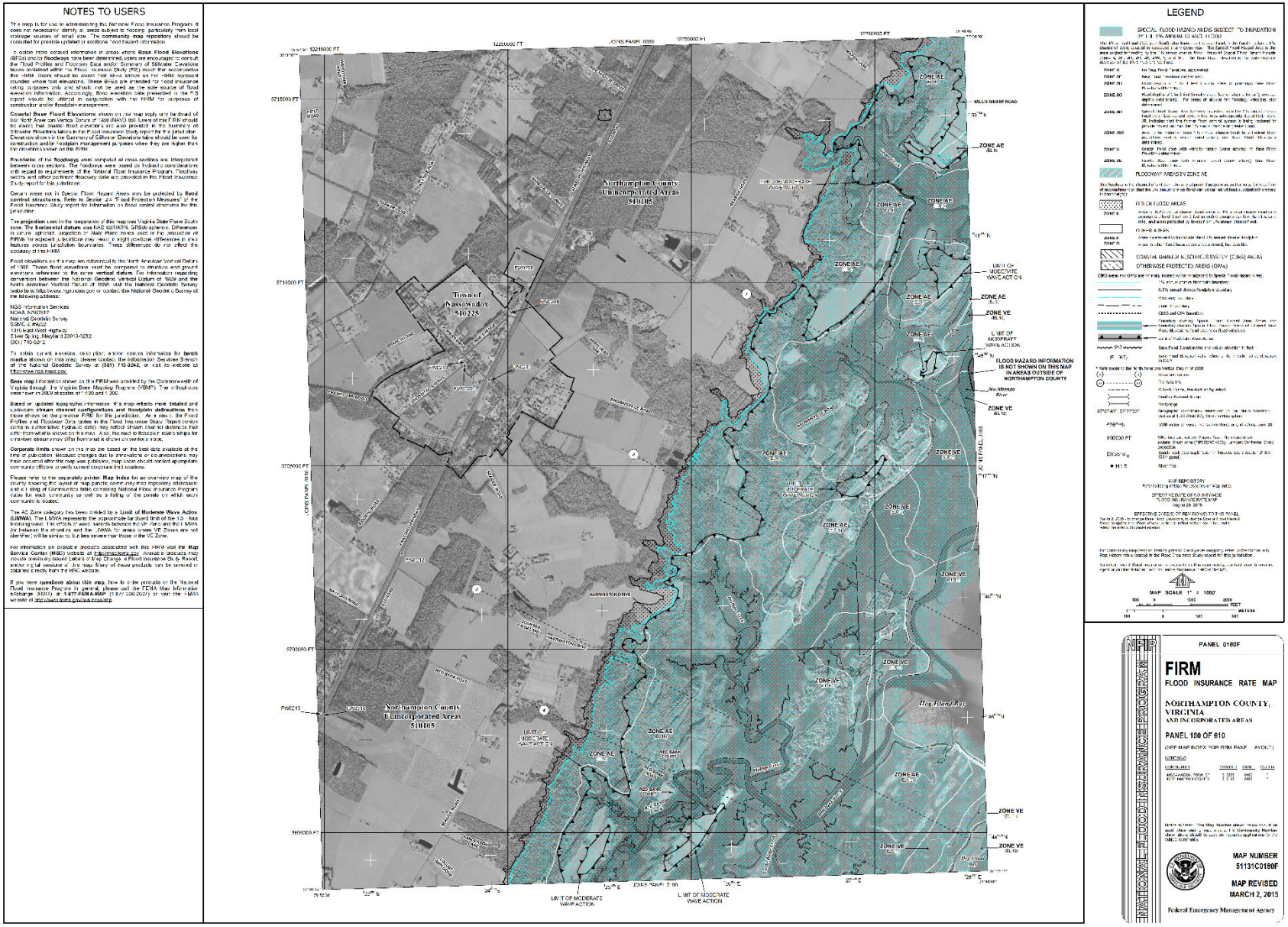
APPENDIX F


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Northampton County Unincorporated Areas 510105
Chesapeake Bay
LEGEND
PANEL 0165F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 165 OF 610
MAP NUMBER 51131C0165F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

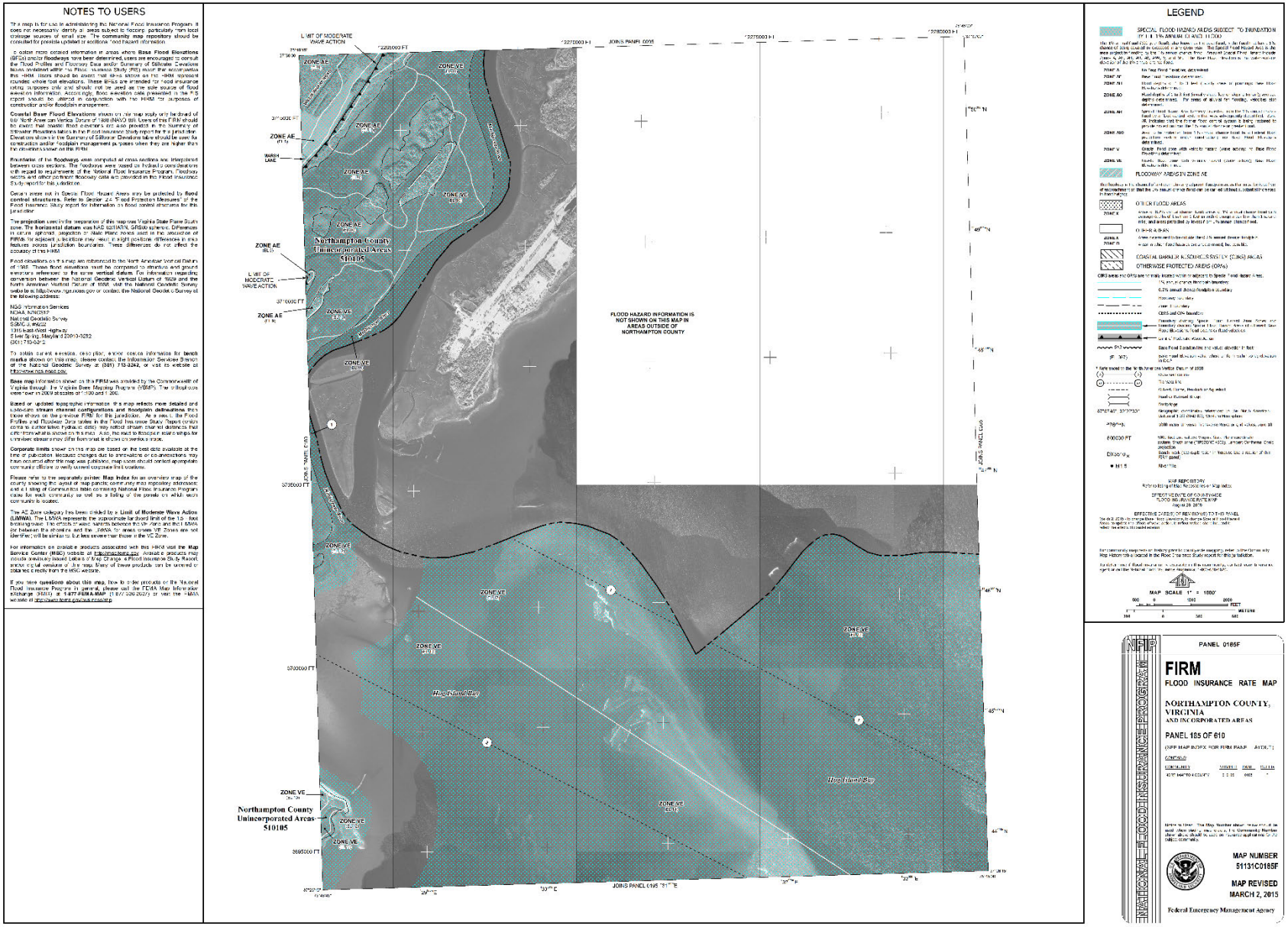
APPENDIX F

NOTES TO USERS
LEGEND
Northampton County
Unincorporated Areas
510105
ZONE AE
ZONE VE
LIMIT OF MODERATE WAVE ACTION
PANEL 0170F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 170 OF 610
MAP NUMBER
51131C0170F
MAP REVISED
MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

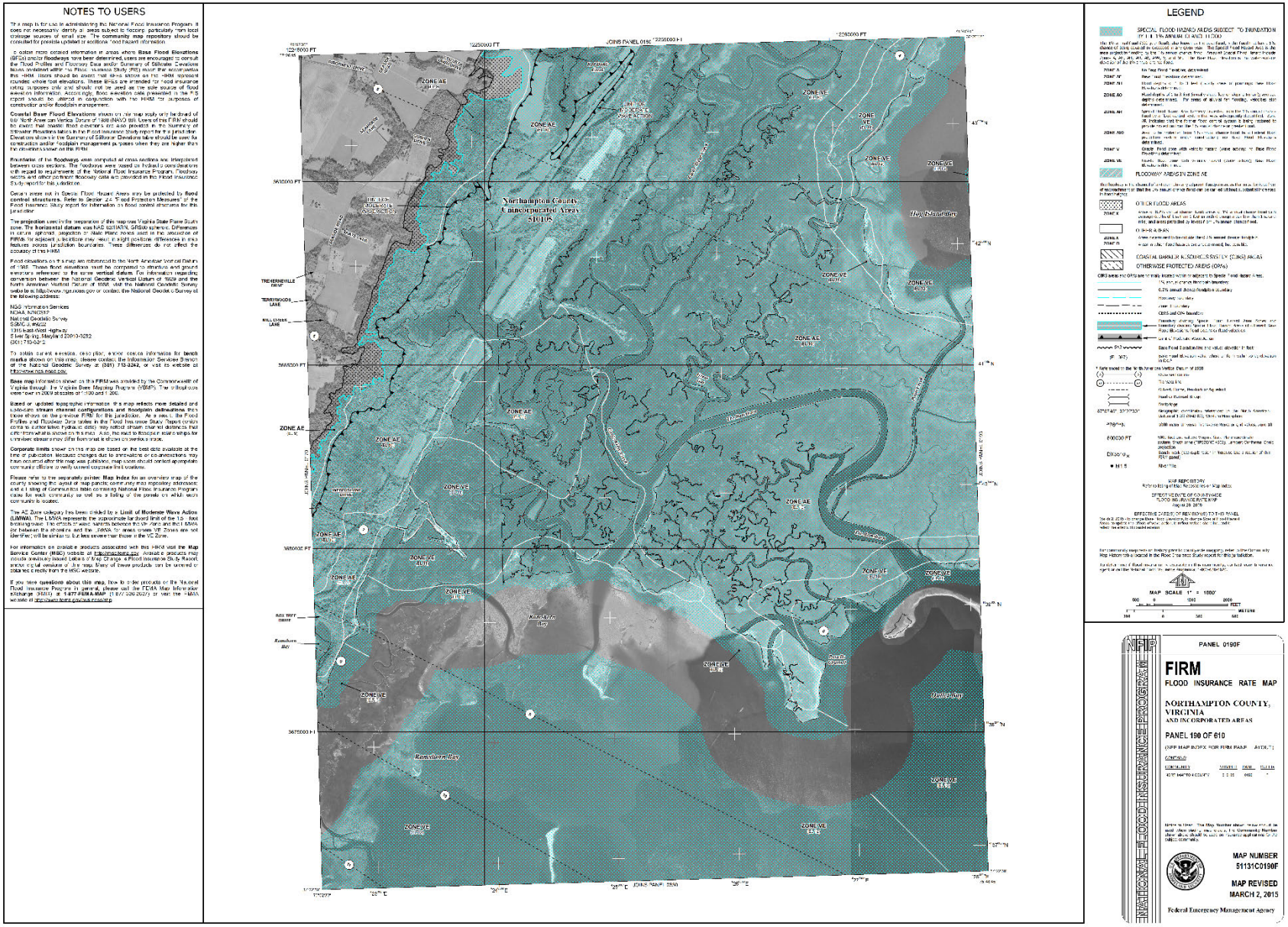
APPENDIX F


NOTES TO USERS
LEGEND
Northampton County
Unincorporated Areas
510105
Town of
Nassawadox
510228
ZONE AE
ZONE VE
LIMIT OF MODERATE WAVE ACTION
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF NORTHAMPTON COUNTY
PANEL 0180F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 180 OF 610
MAP NUMBER
51131C0180F
MAP REVISED
MARCH 2, 2015
Federal Emergency Management Agency

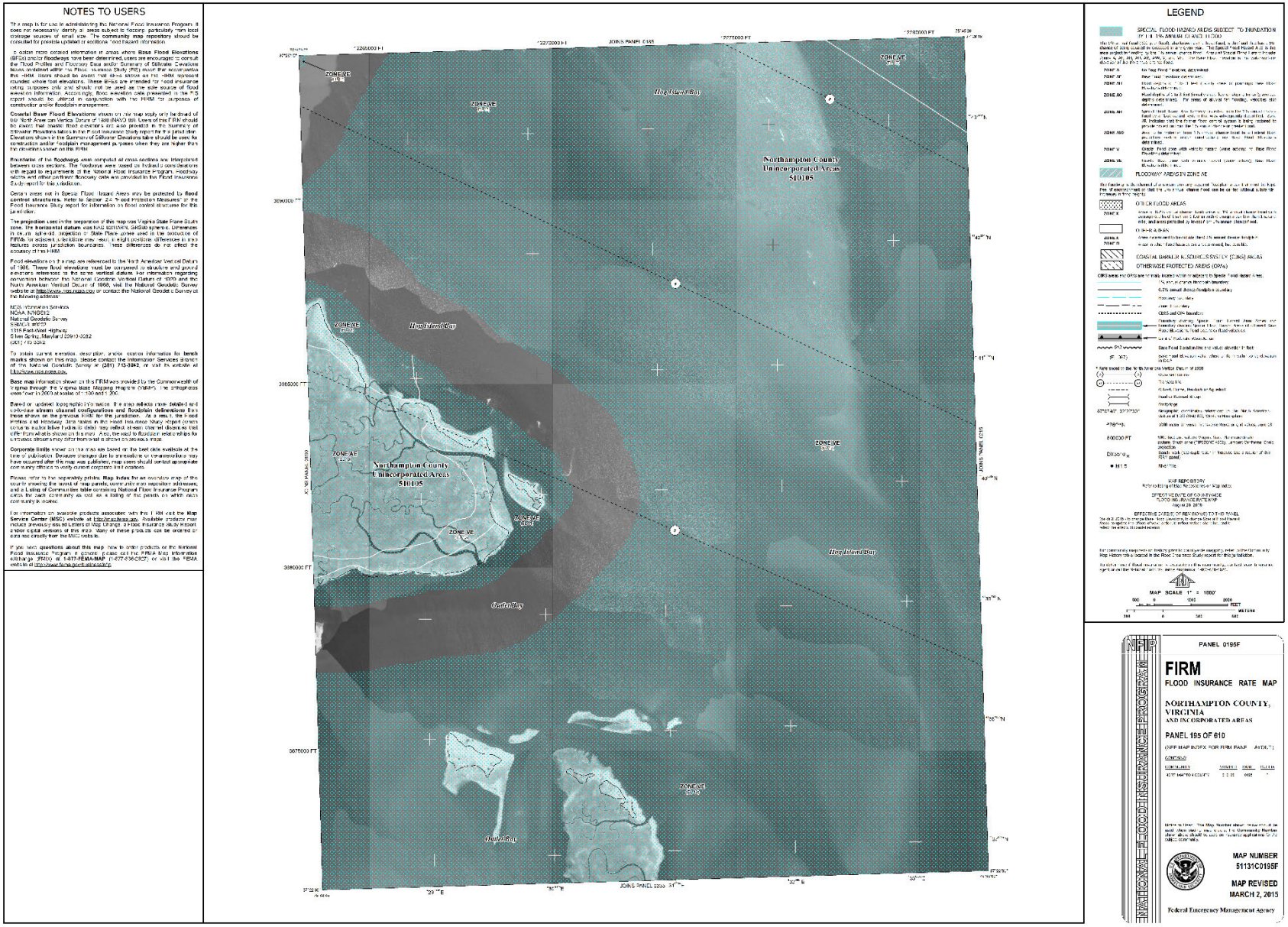
APPENDIX F


NOTES TO USERS
LEGEND
LIMIT OF MODERATE WAVE ACTION
JOINS PANEL 0095
ZONE AE
ZONE VE
Northampton County Unincorporated Areas 510105
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF NORTHAMPTON COUNTY
Hog Island Bay
JOINS PANEL 0195
MAP SCALE 1" = 1000'
PANEL 0185F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 185 OF 610
MAP NUMBER 51131C0185F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

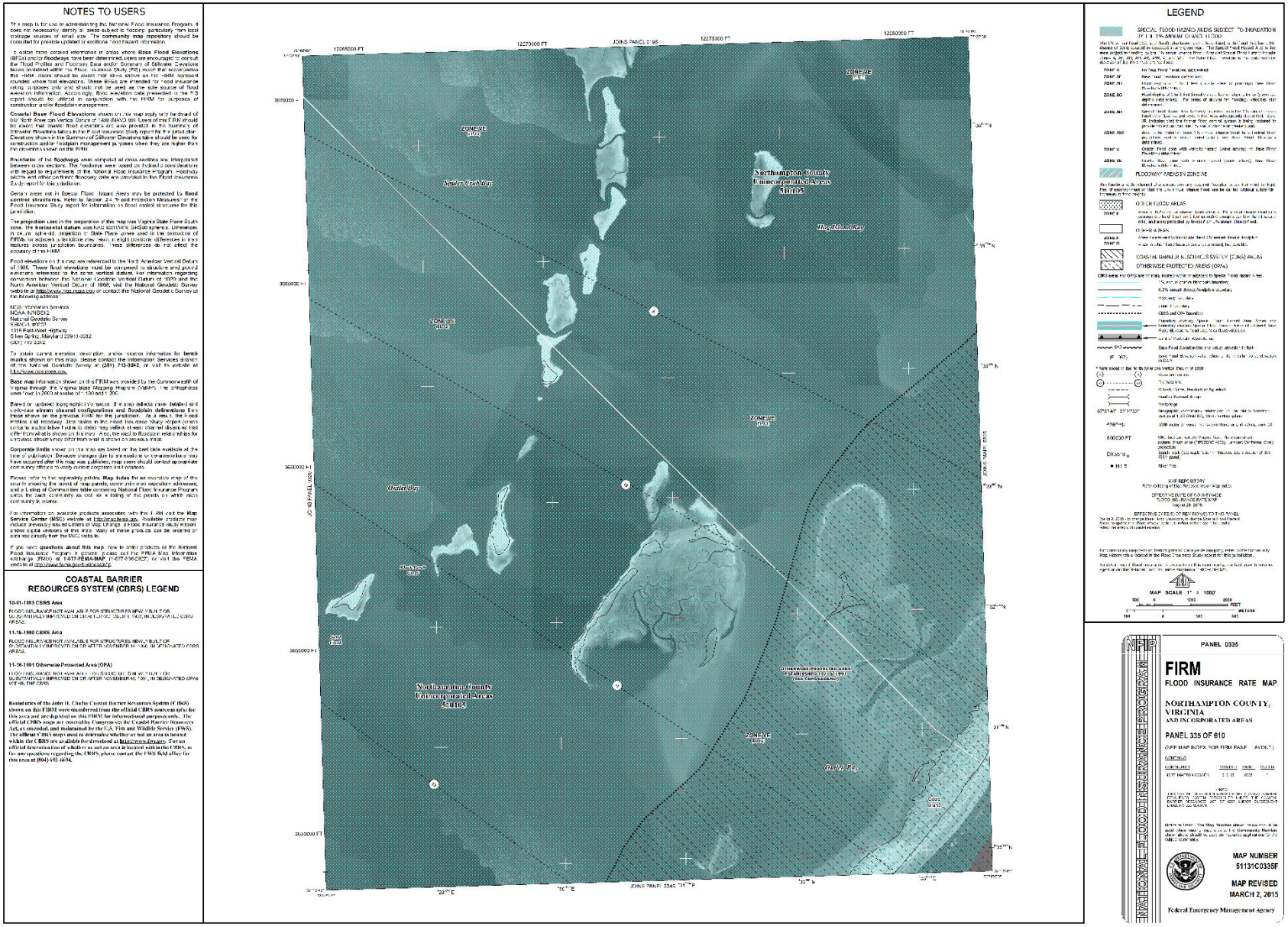
APPENDIX F


NOTES TO USERS
LEGEND
Northampton County
Unincorporated Areas
510105
ZONE AE
ZONE VE
PANEL 0190F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 190 OF 610
MAP NUMBER
51131C0190F
MAP REVISED
MARCH 2, 2015
Federal Emergency Management Agency

APPENDIX F


NOTES TO USERS
LEGEND
Hog Island Bay
Northampton County
Unincorporated Areas
510105
ZONE VE
ZONE AE
Cradle Bay
MAP SCALE 1" = 1000'
PANEL 0195F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 195 OF 610
MAP NUMBER
51131C0195F
MAP REVISED
MARCH 2, 2015
Federal Emergency Management Agency

APPENDIX F


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Northampton County Unincorporated Areas 510105
Spiller Creek Bay
Hog Island Bay
Butler Bay
Cobb Bay
OTHERWISE PROTECTED AREA (OPA)
ZONE VE
LEGEND
MAP SCALE 1" = 1000'
PANEL 0335
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 335 OF 610
MAP NUMBER 51131C0335F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

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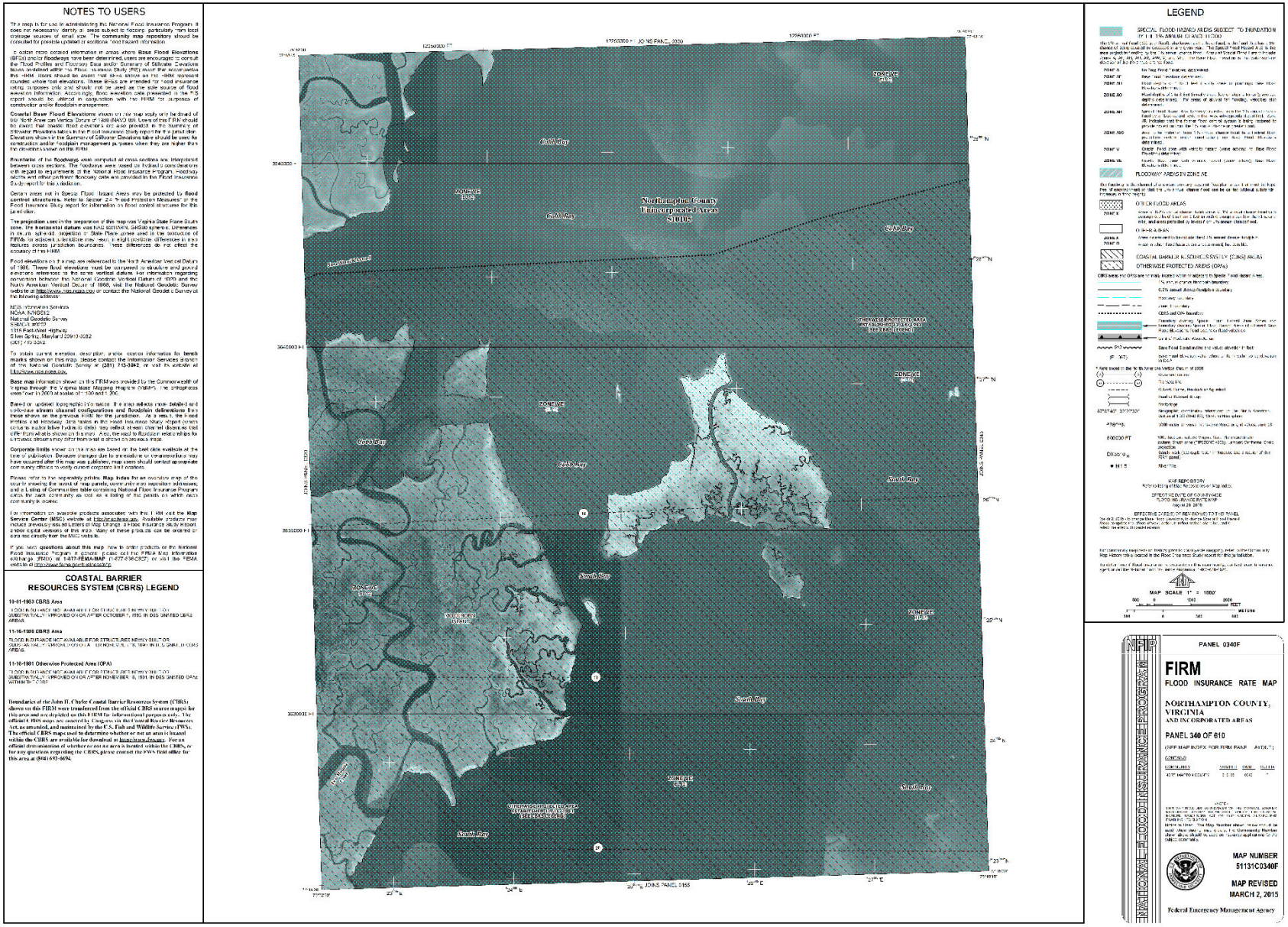
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Northampton County Unincorporated Areas
LEGEND
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 340 OF 610
MAP NUMBER 51131C0340F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

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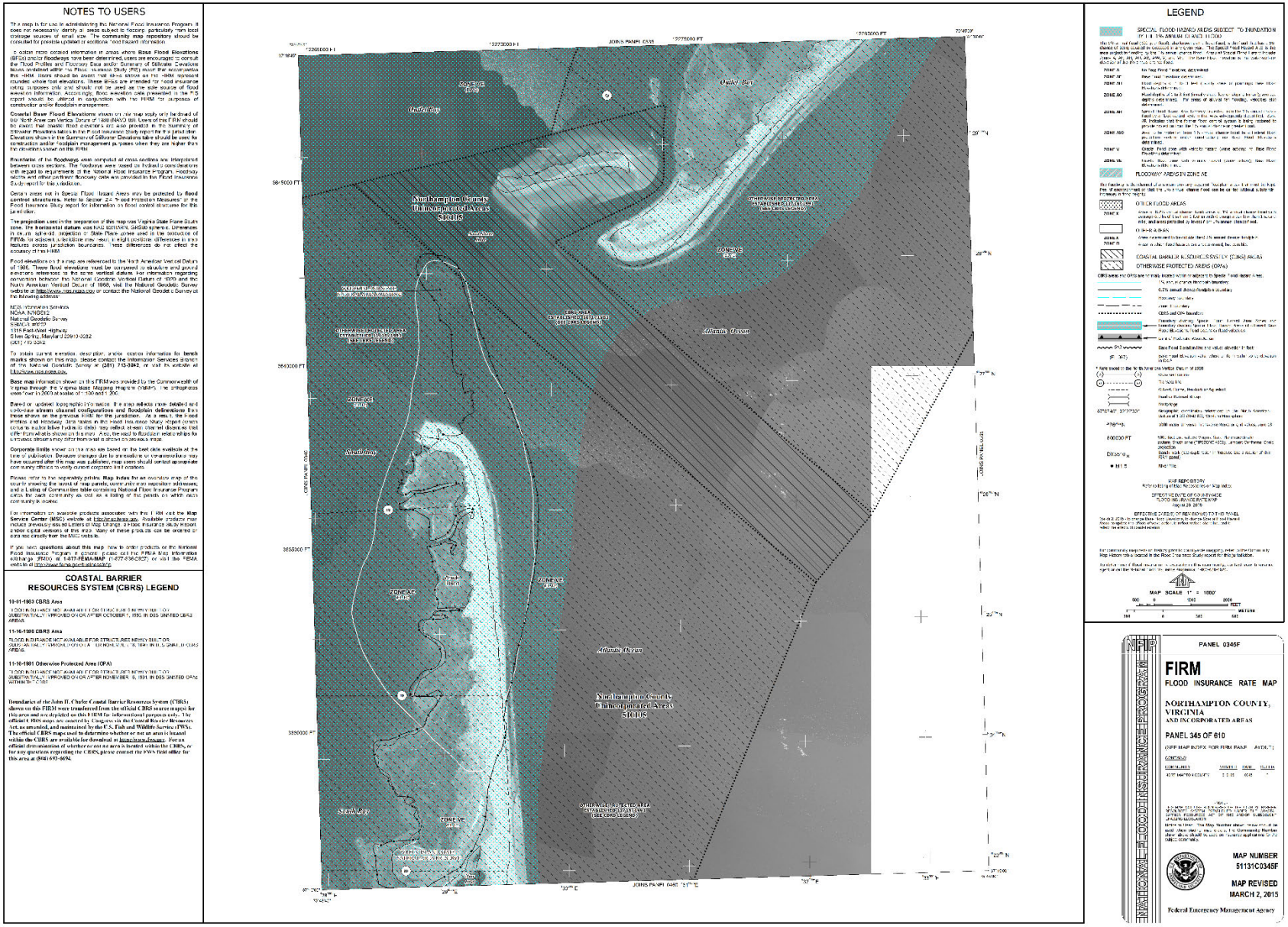
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Northampton County Unincorporated Areas 510105
Outlet Bay
Atlantic Ocean
South Bay
LEGEND
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 345 OF 610
MAP NUMBER 51131C0345F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

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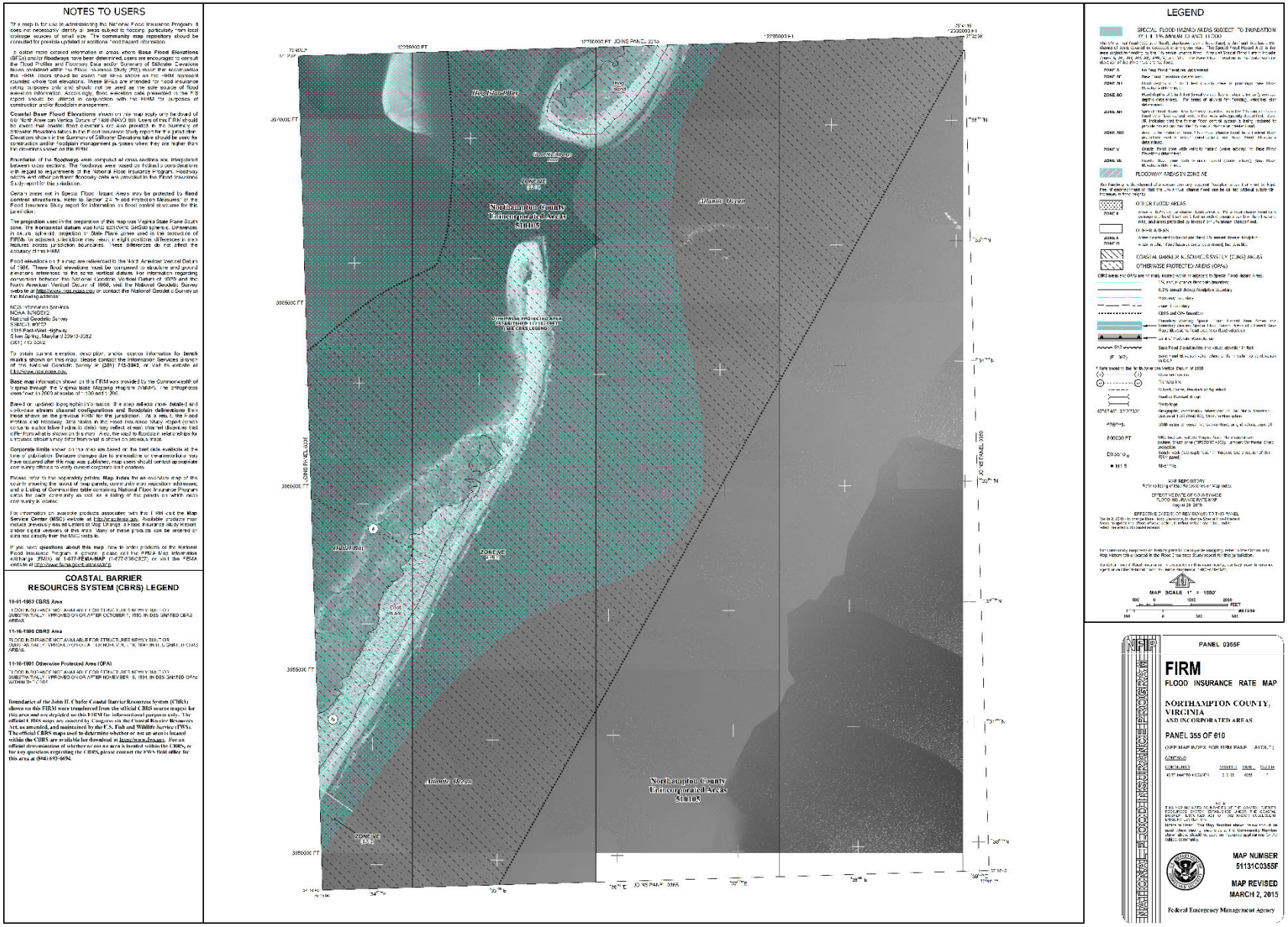
NOTES TO USERS
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Northampton County Unincorporated Areas 510105
Atlantic Ocean
ZONE VE
LEGEND
PANEL 0355F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 355 OF 610
MAP NUMBER 51131C0355F
MAP REVISED MARCH 2, 2015
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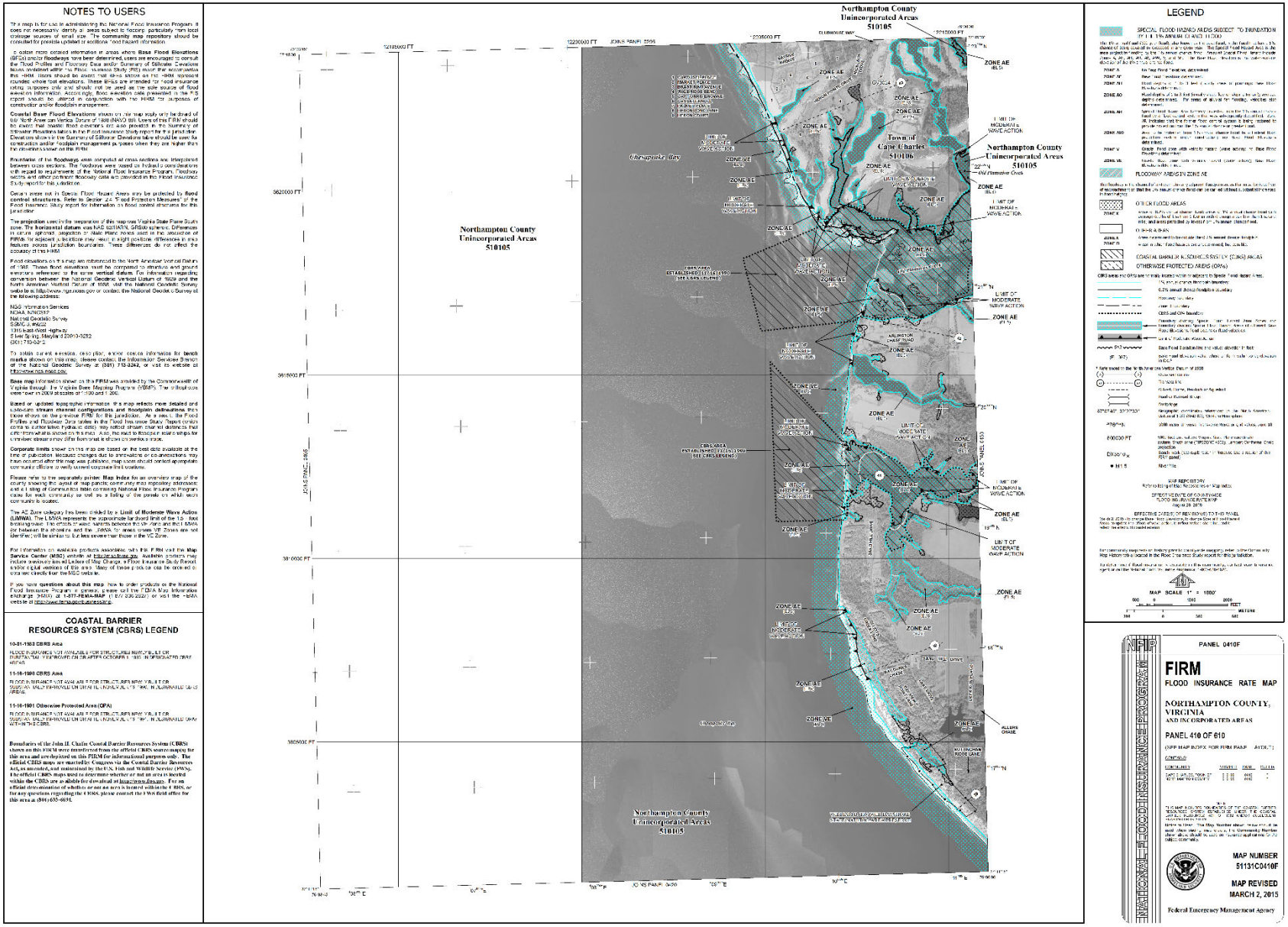
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Northampton County Unincorporated Areas 510105
Town of Cape Charles 510106
Chesapeake Bay
LEGEND
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 410 OF 610
PANEL 0410F
MAP NUMBER 51131C0410F
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NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Town of Cape Charles 510106
Northampton County Unincorporated Areas 510105
LEGEND
PANEL 0430F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 430 OF 610
MAP NUMBER 51131C0430F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

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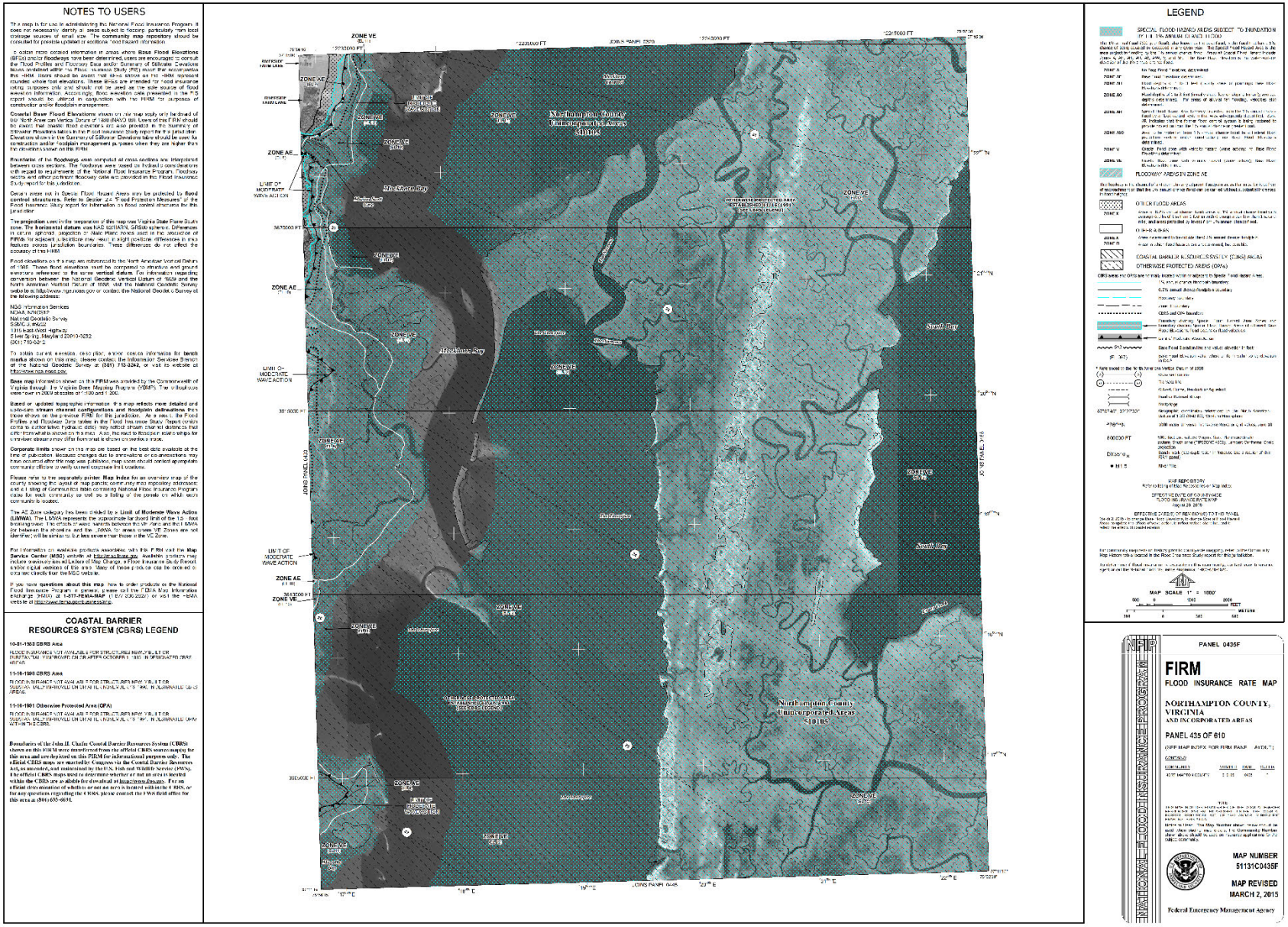
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Northampton County Unincorporated Areas
510105
PANEL 0435F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 435 OF 610
MAP NUMBER
51131C0435F
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NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Northampton County Unincorporated Areas 510105
Chesapeake Bay
LEGEND
FLOODWAY AREAS IN ZONE AE
OTHER FLOOD AREAS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)
MAP SCALE 1" = 1000'
PANEL 0440F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 440 OF 610
MAP NUMBER 51131C0440F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

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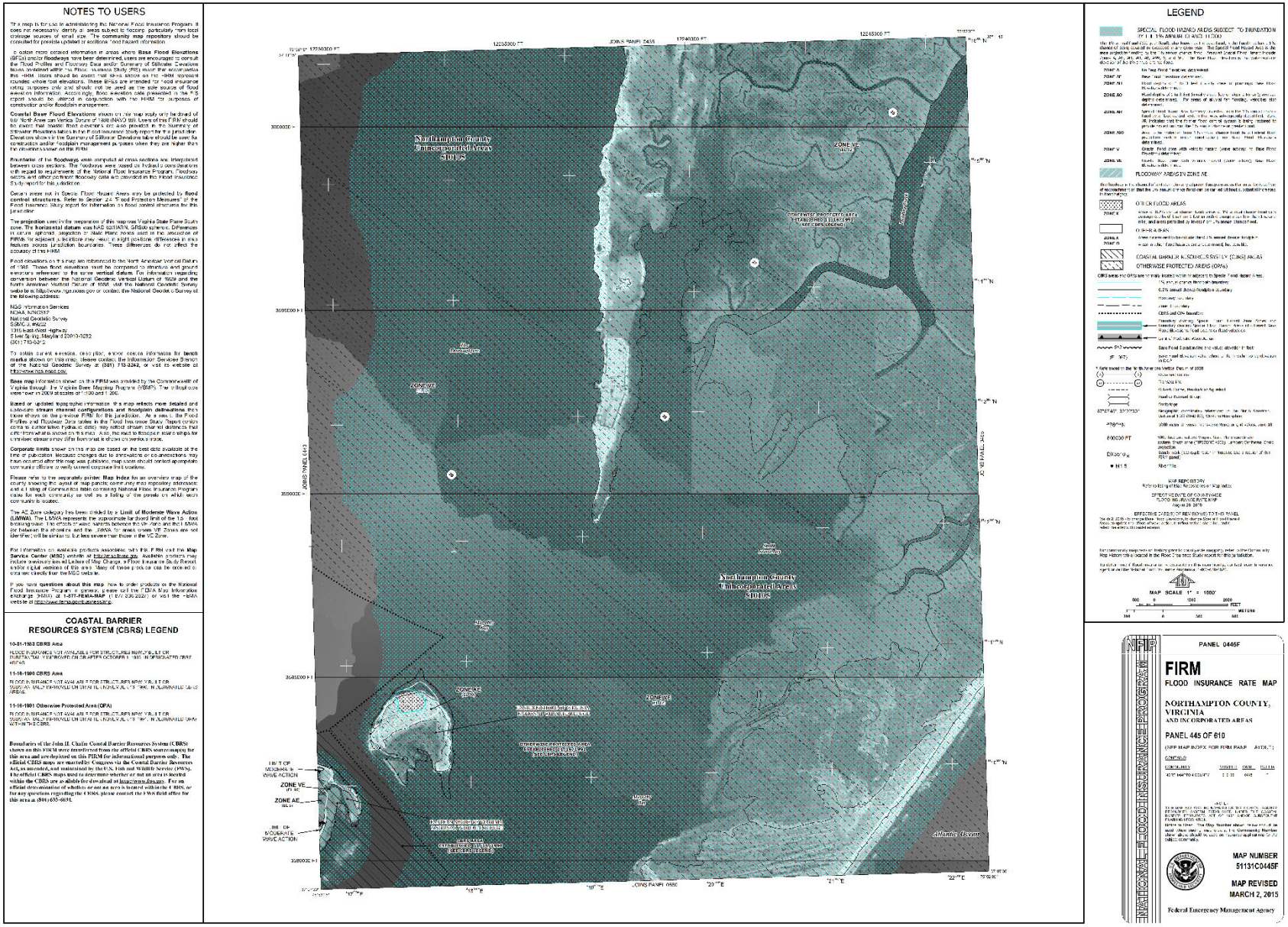
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Northampton County Unincorporated Areas
510105
ZONE VE
ZONE AE
Atlantic Ocean
PANEL 0445F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 445 OF 610
MAP NUMBER
51131C0445F
MAP REVISED
MARCH 2, 2015
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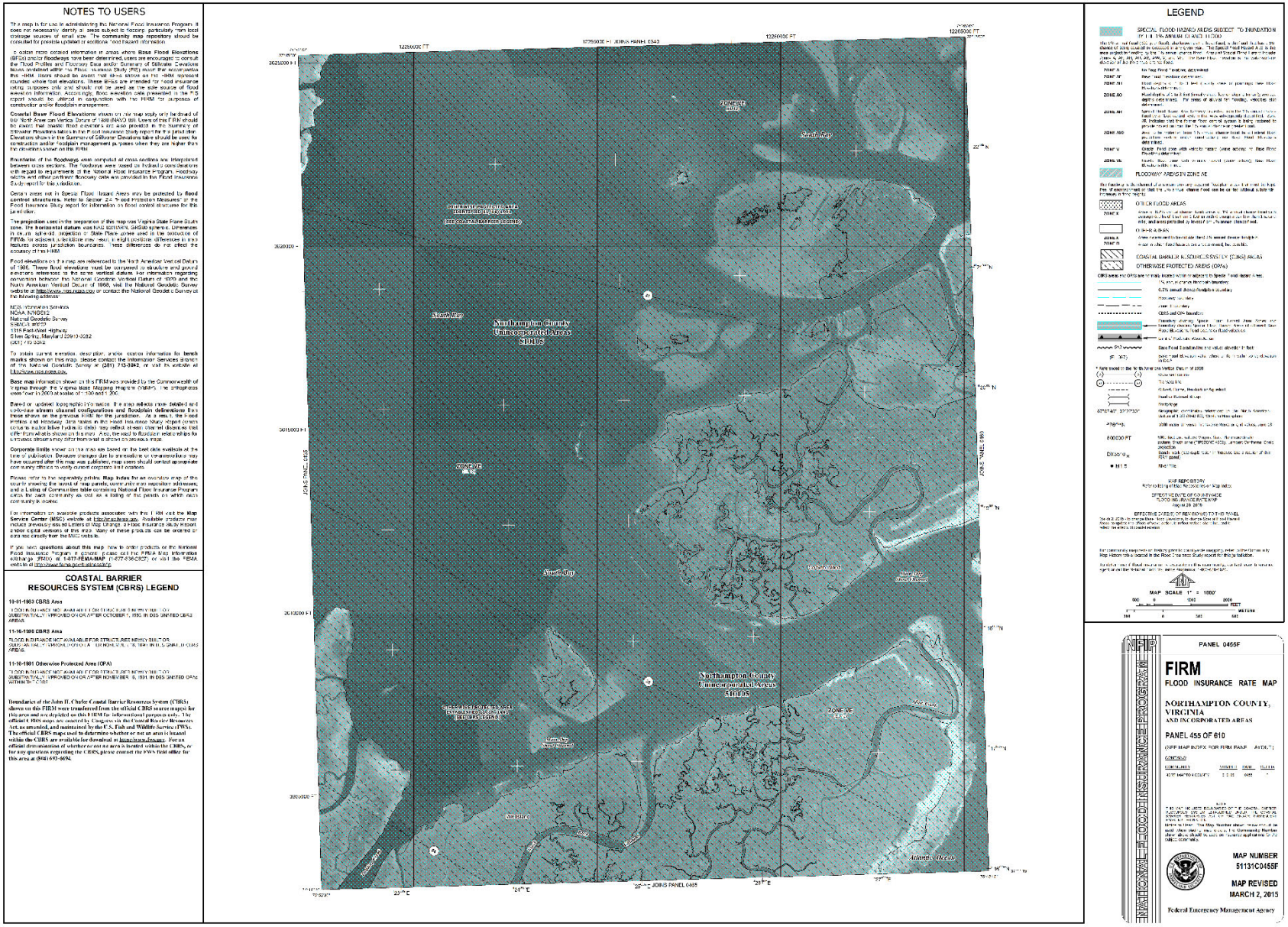
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COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Northampton County
Unincorporated Areas
510105
Atlantic Ocean
PANEL 0455F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 455 OF 610
MAP NUMBER
51131C0455F
MAP REVISED
MARCH 2, 2015
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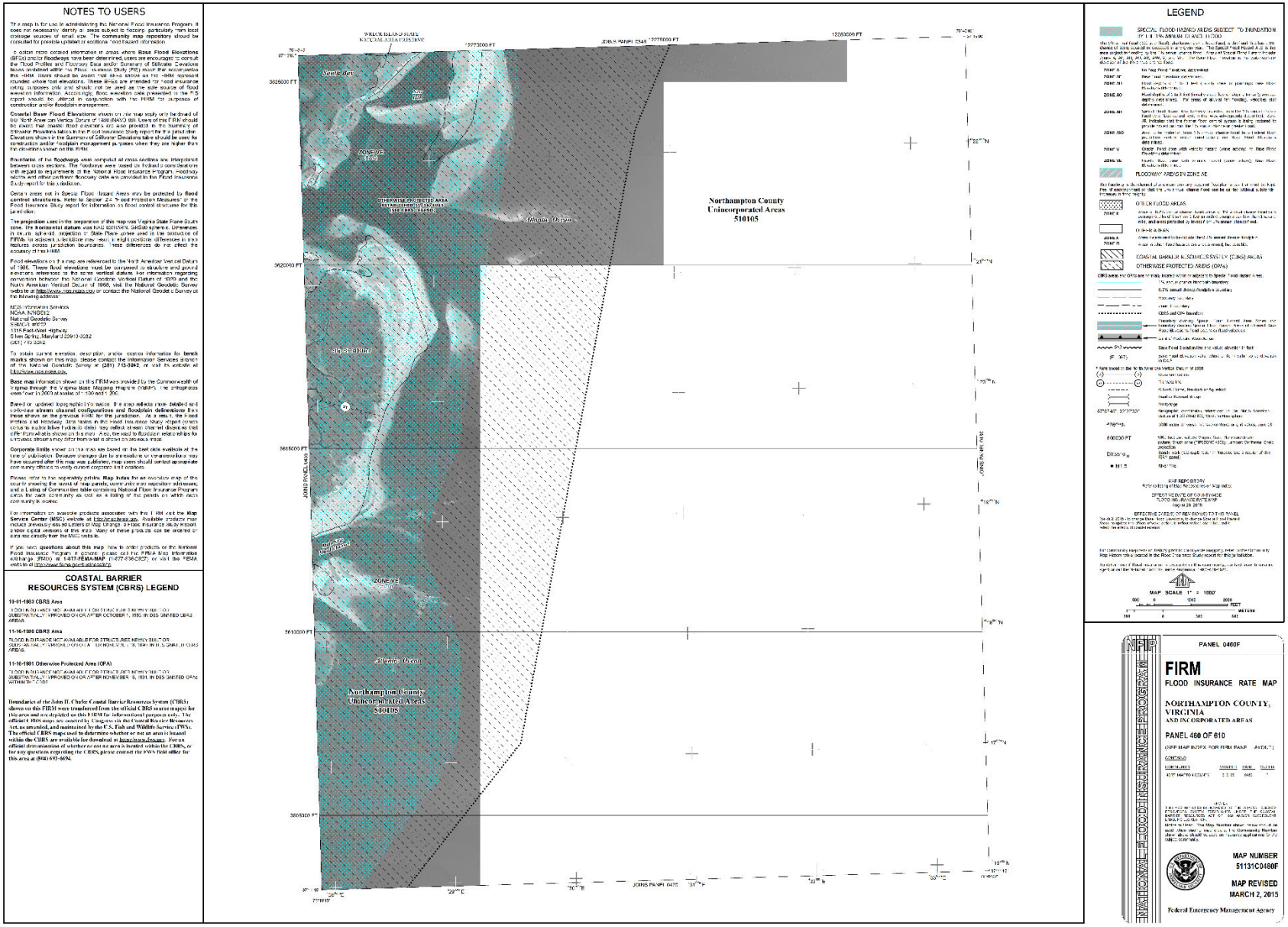
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Northampton County Unincorporated Areas 510105
Atlantic Ocean
Sandy Bay
LEGEND
PANEL 0460F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 460 OF 610
MAP NUMBER 51131C0460F
MAP REVISED MARCH 2, 2015
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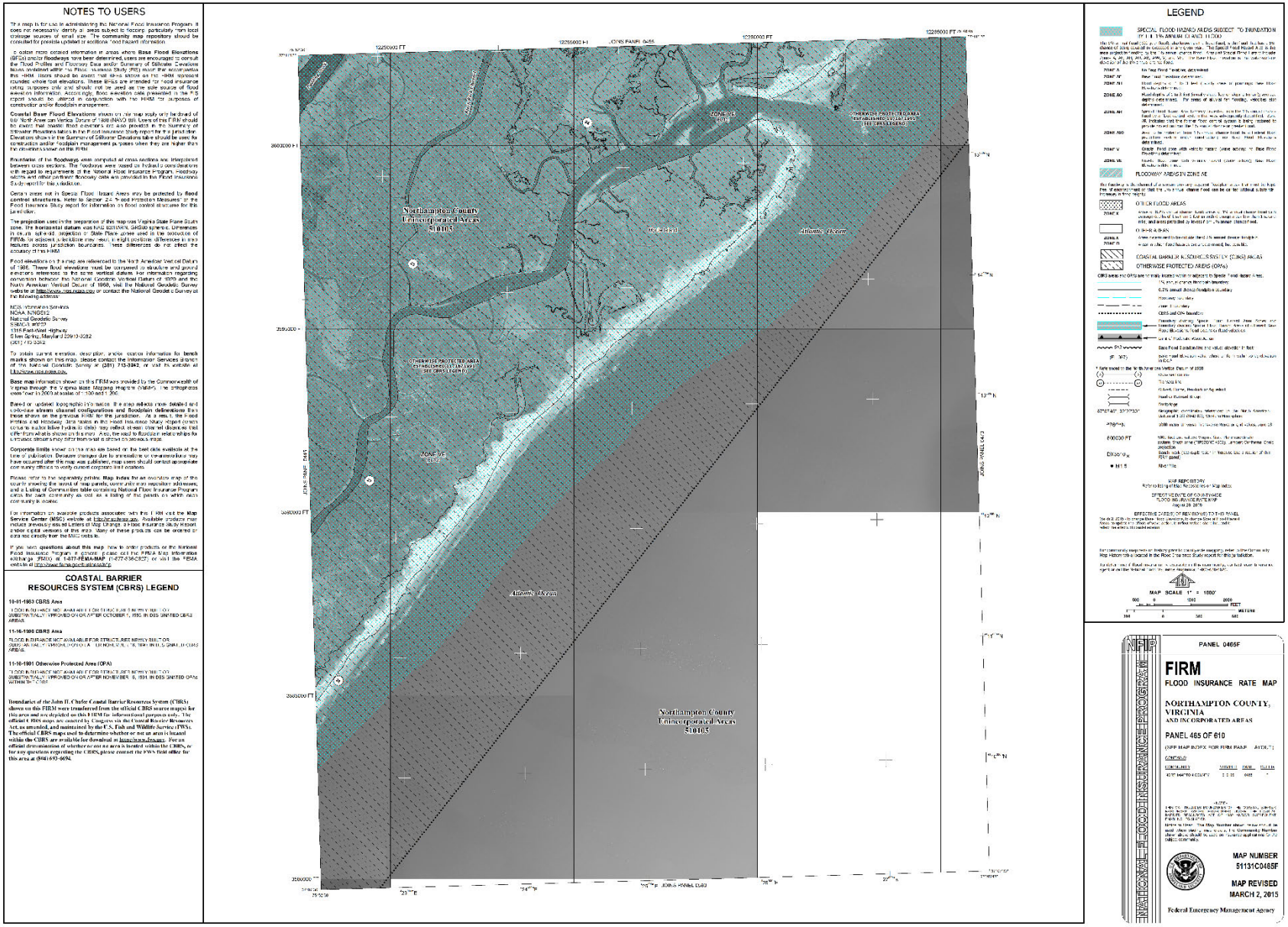
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Northampton County Unincorporated Areas 510105
Atlantic Ocean
ZONE VE
OTHERWISE PROTECTED AREA
PANEL 0465F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 465 OF 610
MAP NUMBER 51131C0465F
MAP REVISED MARCH 2, 2015
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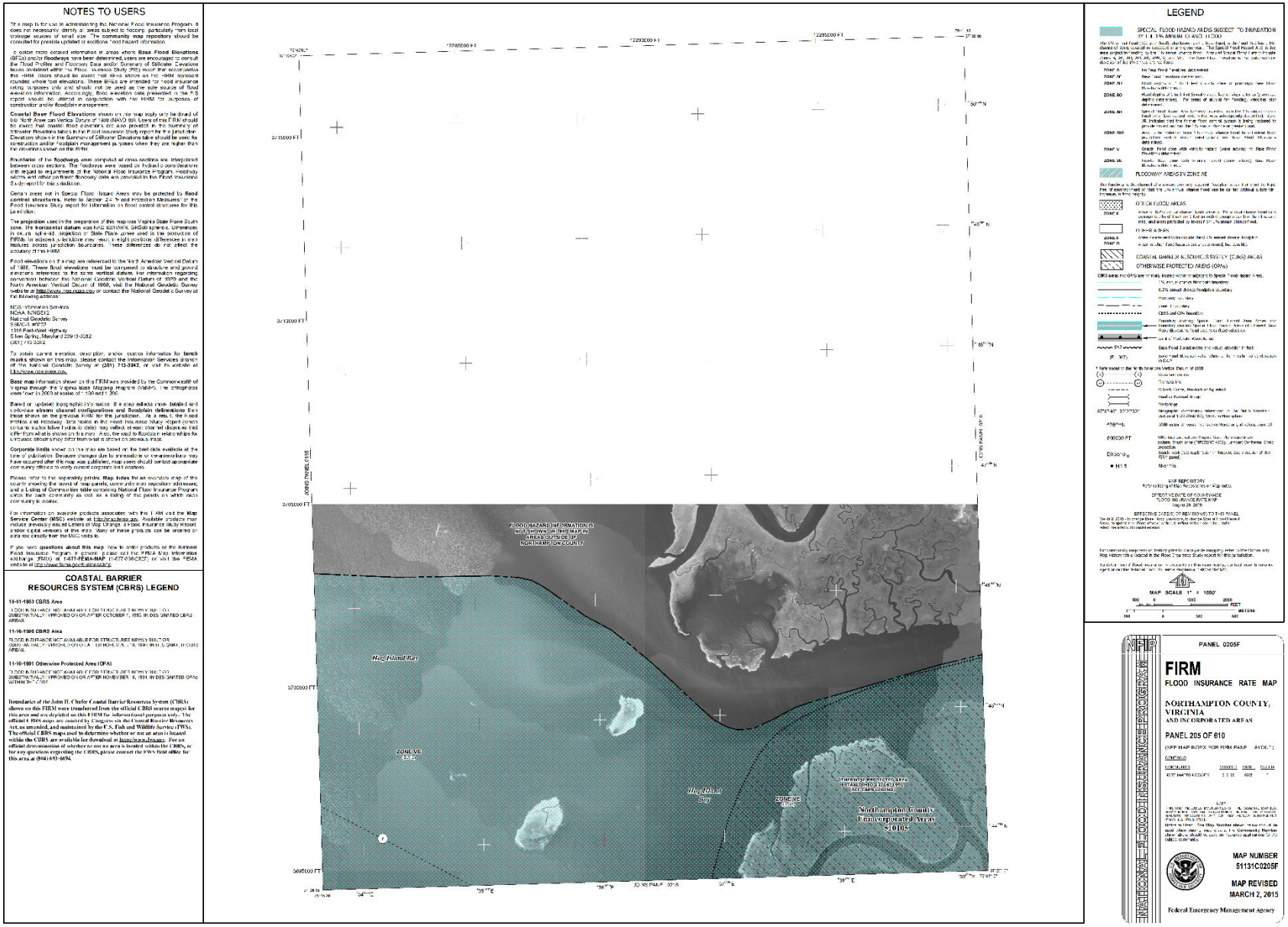
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF NORTHAMPTON COUNTY
ZONE VE
Northampton County Unincorporated Areas 510105
LEGEND
FLOODWAY AREAS IN ZONE AE
OTHER FLOOD AREAS
OTHERWISE PROTECTED AREAS (OPAS)
MAP SCALE 1" = 1000'
PANEL 0205F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 205 OF 610
MAP NUMBER 51131C0205F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

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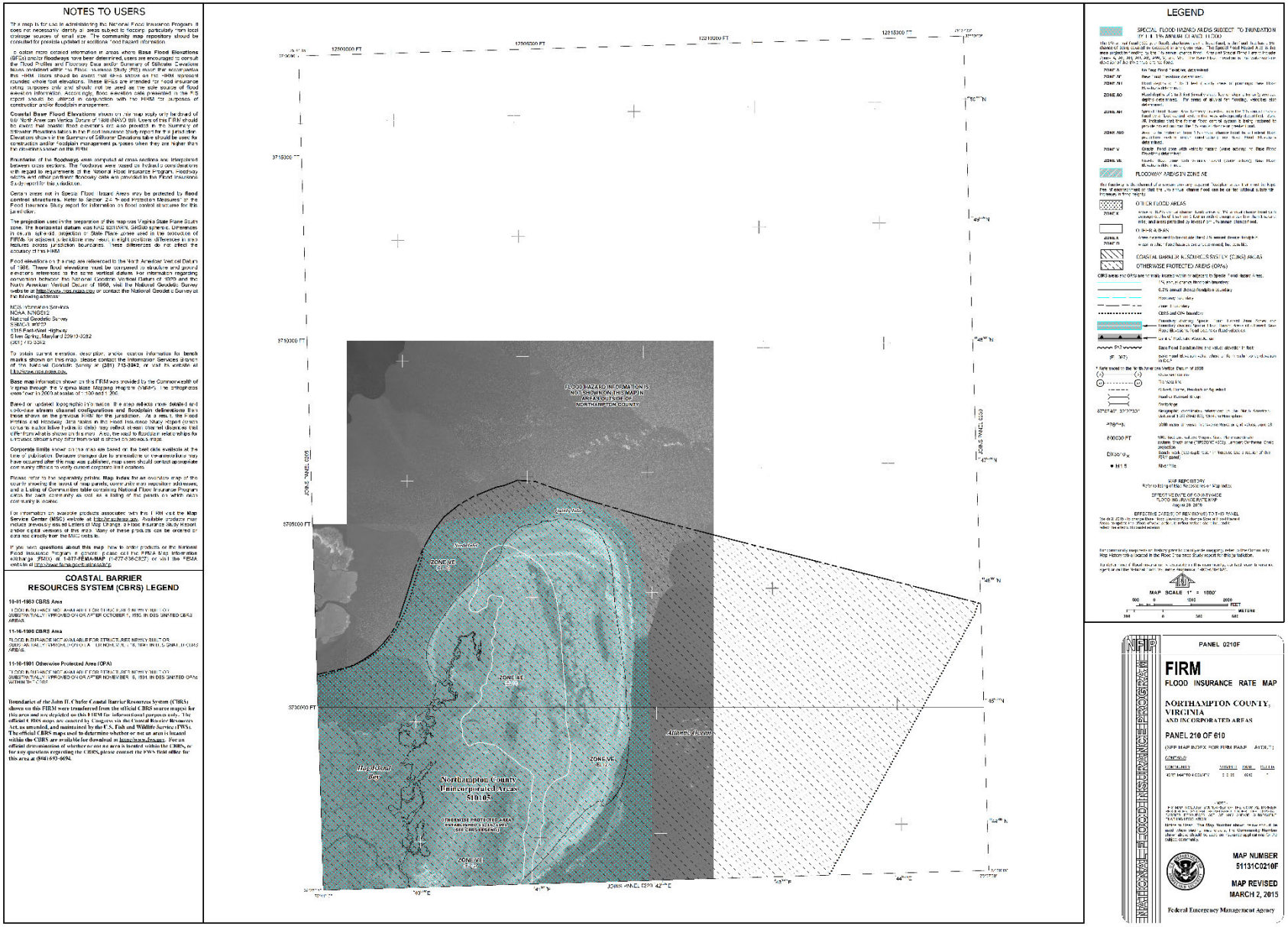
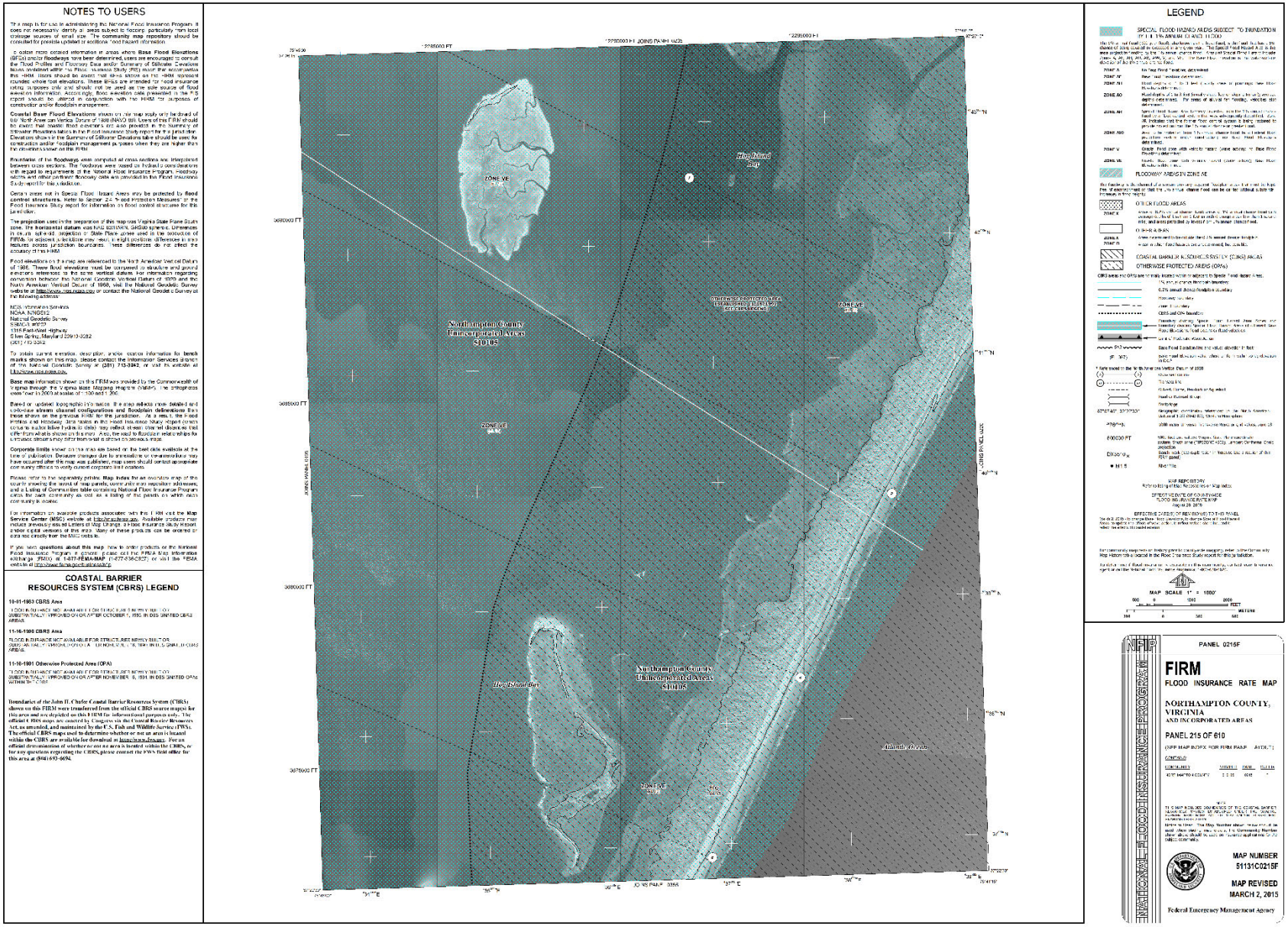

NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF NORTHAMPTON COUNTY
ZONE VE
ZONE AE
Atlantic Ocean
Hog Island Bay
Northampton County Unincorporated Areas 510105
OTHERWISE PROTECTED AREA
LEGEND
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 210 OF 610
MAP NUMBER 51131C0210F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX F


NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Northampton County Unincorporated Areas 510105
ZONE VE
PANEL 0215F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 215 OF 610
MAP NUMBER 51131C0215F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

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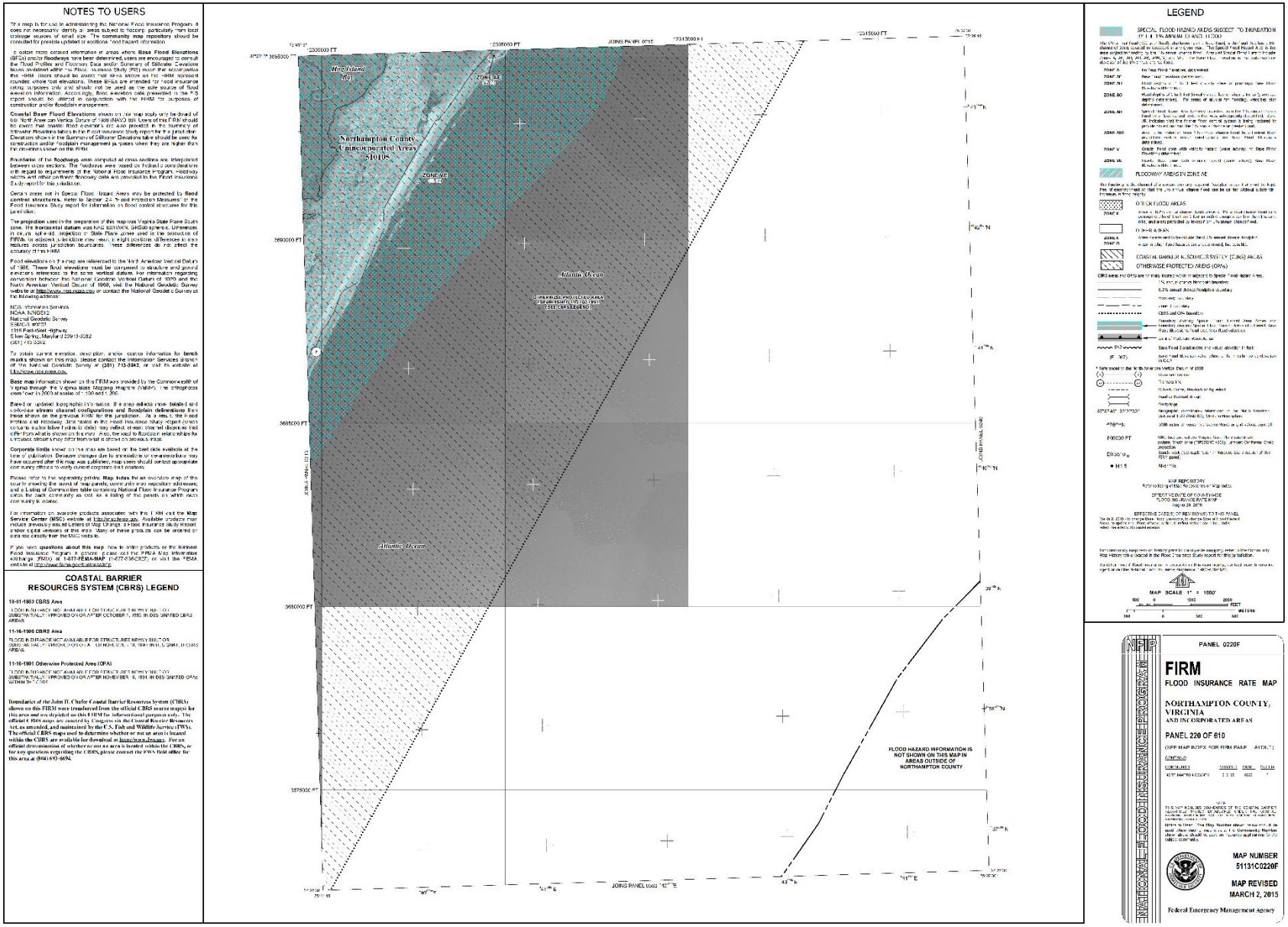
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Hog Island Bay
ZONE AE
Northampton County, Unincorporated Areas 510105
ZONE VE
Atlantic Ocean
OTHERWISE PROTECTED AREA (OPA)
Atlantic Ocean
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF NORTHAMPTON COUNTY
LEGEND
MAP SCALE 1" = 1000'
PANEL 0220F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 220 OF 610
MAP NUMBER 51131C0220F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

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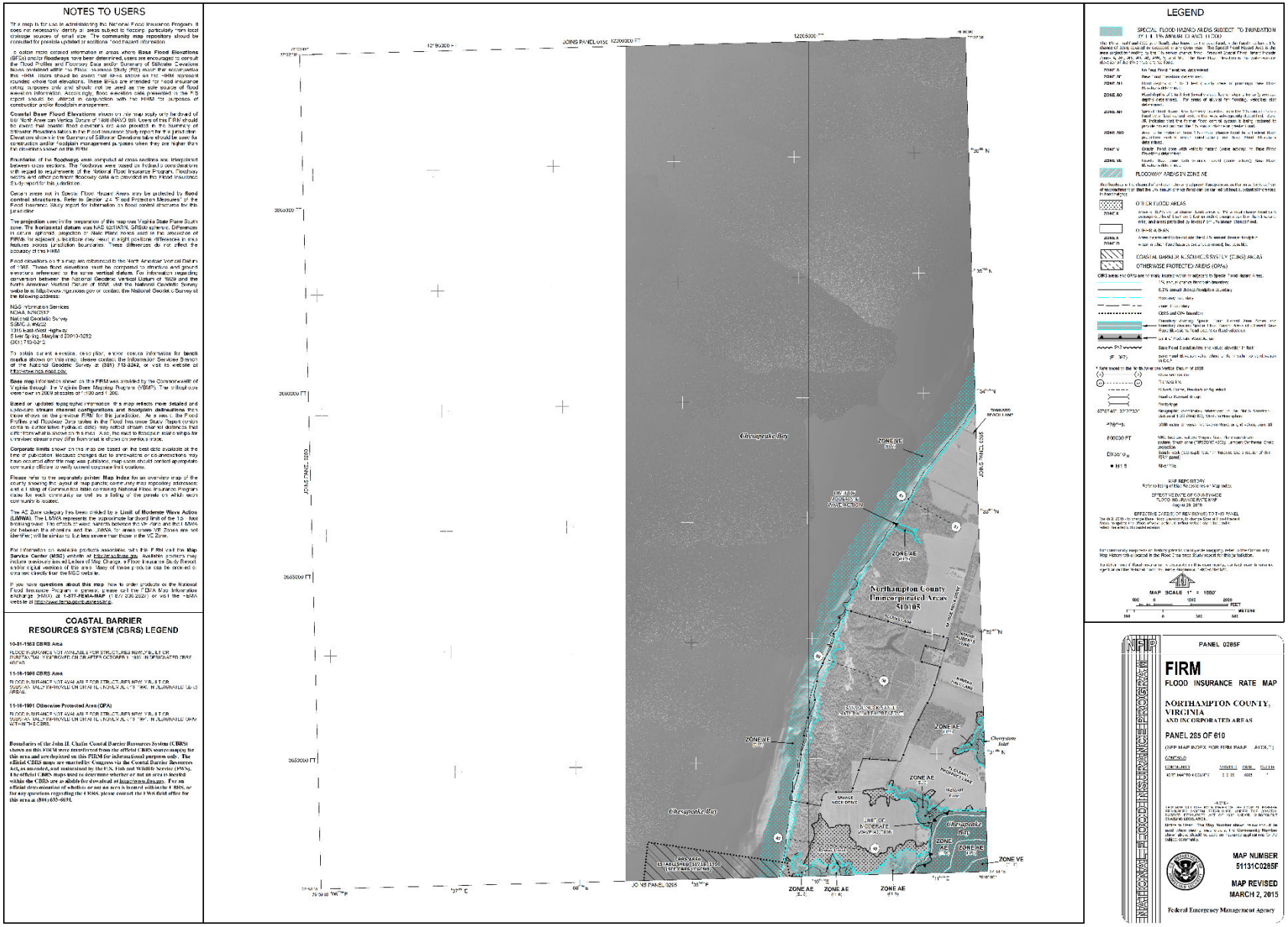
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Northampton County
Unincorporated Areas
510105
Chesapeake Bay
ZONE VE
ZONE AE
JOINS PANEL 0255
JOINS PANEL 0285
PANEL 0285F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 285 OF 610
MAP NUMBER
51131C0285F
MAP REVISED
MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

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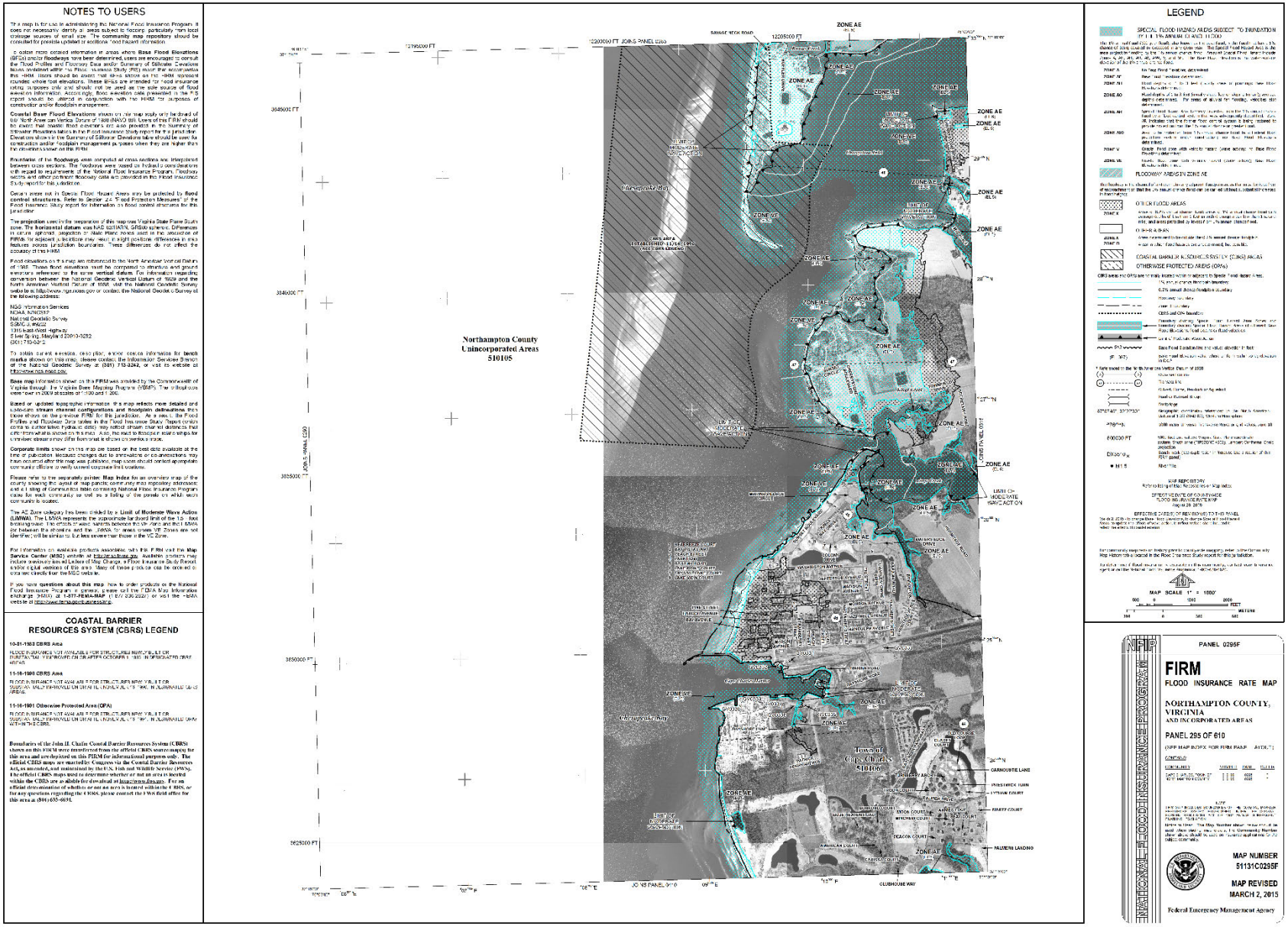
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Northampton County
Unincorporated Areas
510105
LEGEND
PANEL 0295F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 295 OF 610
MAP NUMBER
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MAP REVISED
MARCH 2, 2015
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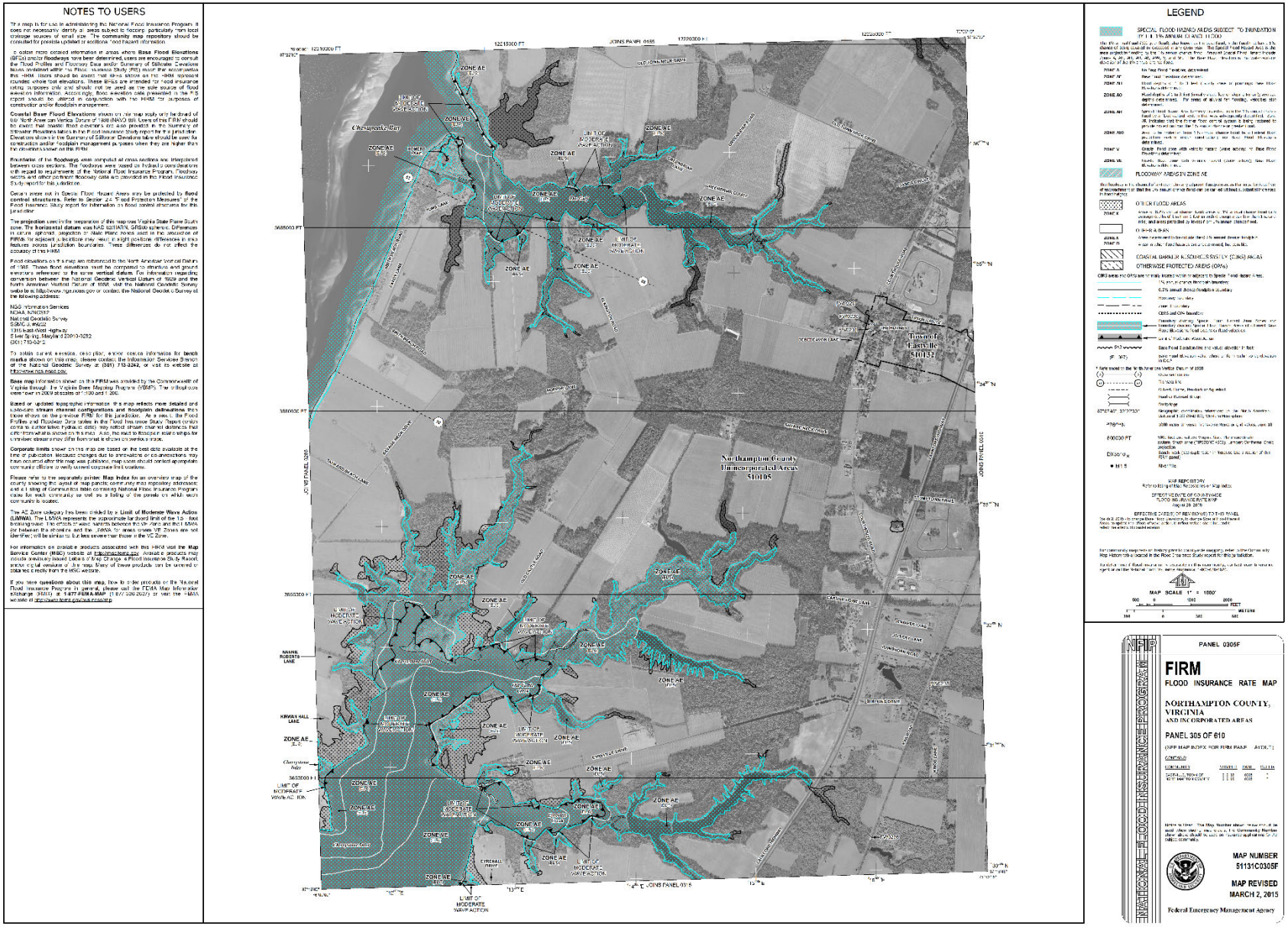
NOTES TO USERS
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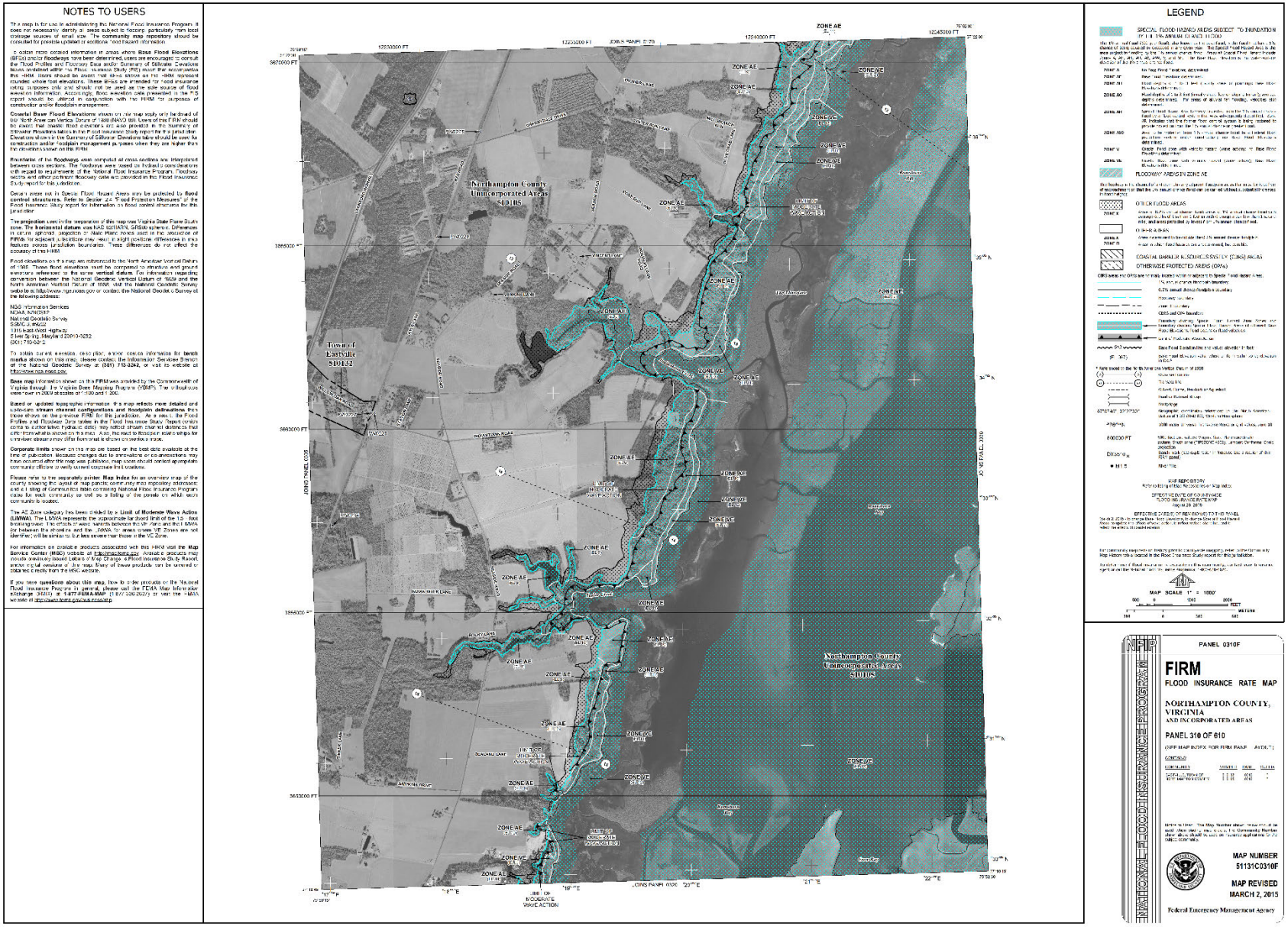
Northampton County
Unincorporated Areas
510105
Town of
Eastville
510152
Chesapeake Bay
ZONE AE
ZONE VE
JOINS PANEL 0195
JOINS PANEL 0305
MAP SCALE 1" = 1000'
PANEL 0305F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 305 OF 610
MAP NUMBER
51131C0305F
MAP REVISED
MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

APPENDIX F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Northampton County
Unincorporated Areas
510105
Town of
Eastville
510132
ZONE AE
ZONE VE
PANEL 0310F
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FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY,
VIRGINIA
AND INCORPORATED AREAS
PANEL 310 OF 610
MAP NUMBER
51131C0310F
MAP REVISED
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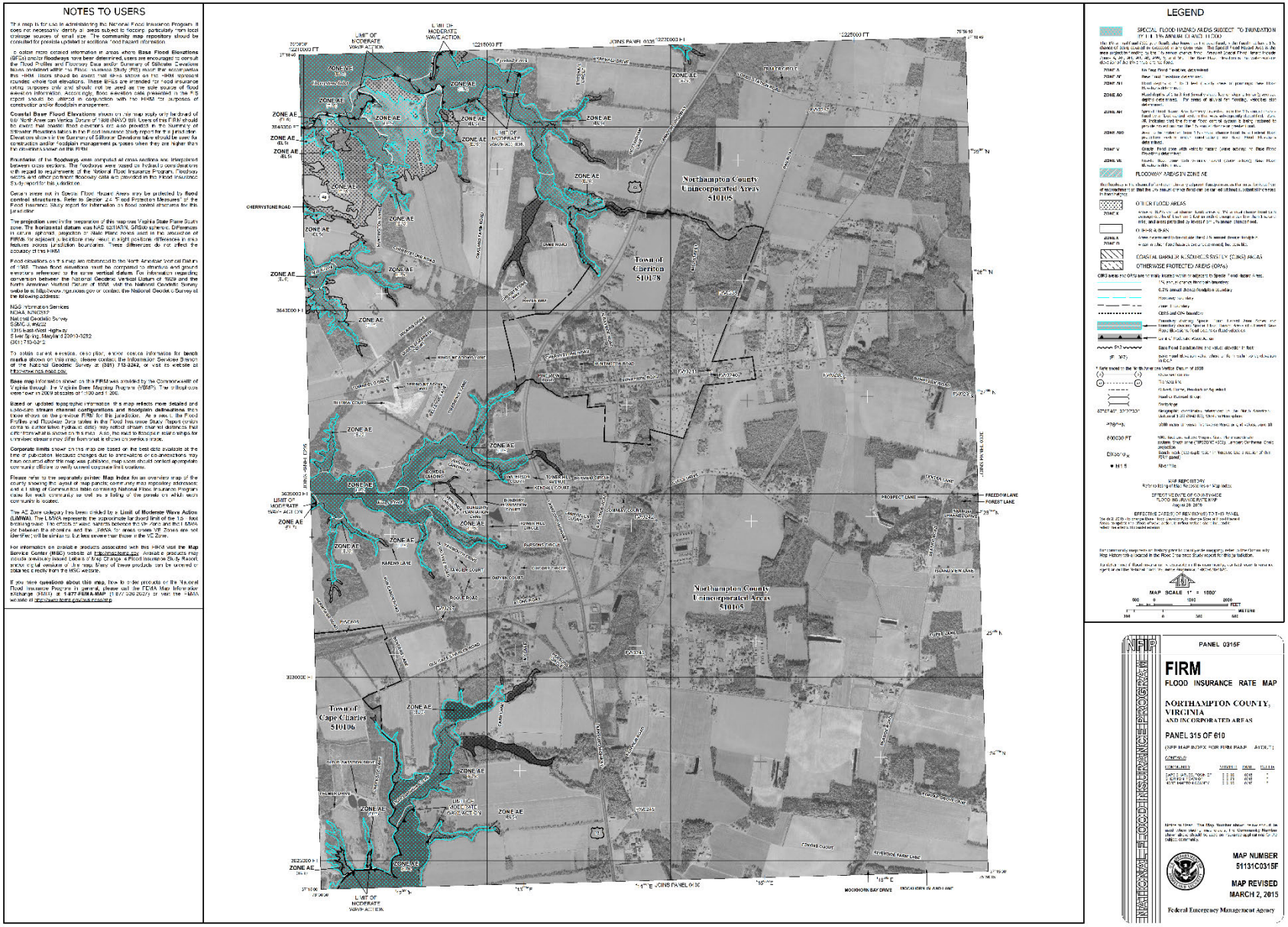
NOTES TO USERS
LEGEND
PANEL 0315F
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FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 315 OF 610
MAP NUMBER
51131C0315F
MAP REVISED
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Federal Emergency Management Agency
Northampton County
Unincorporated Areas
510108
Town of Cheriton
510107
Town of Cape Charles
510106
LIMIT OF MODERATE WAVE ACTION
ZONE AE
ZONE VE
CHERRYSTONE ROAD
JOHNS PARK DRIVE
FREEDOM LANE
FOREST LANE
MOCKHORN BAY DRIVE

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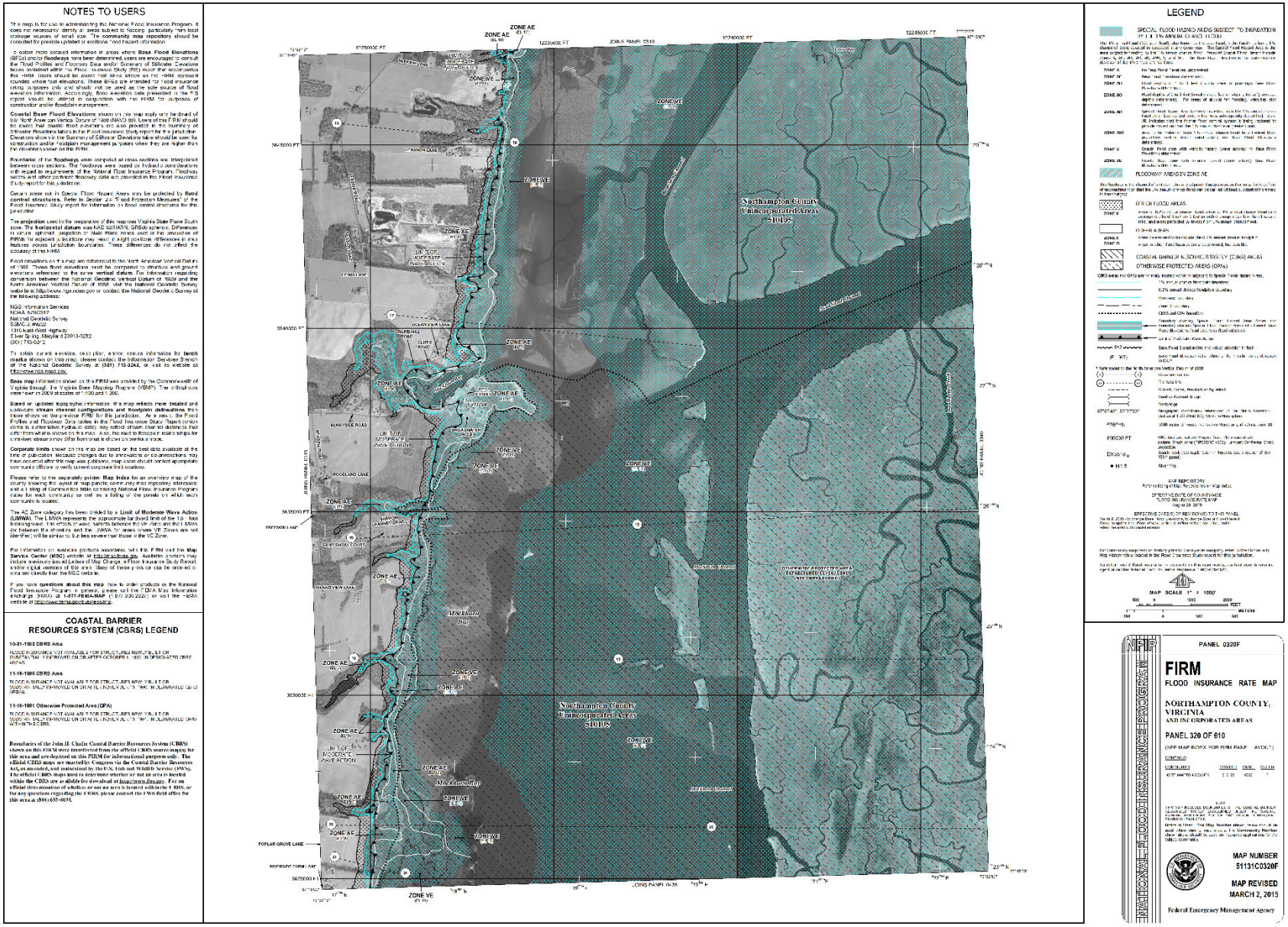
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
LEGEND
Northampton County Unincorporated Areas 510105
ZONE AE
ZONE VE
PANEL 0320F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 320 OF 610
MAP NUMBER 51131C0320F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

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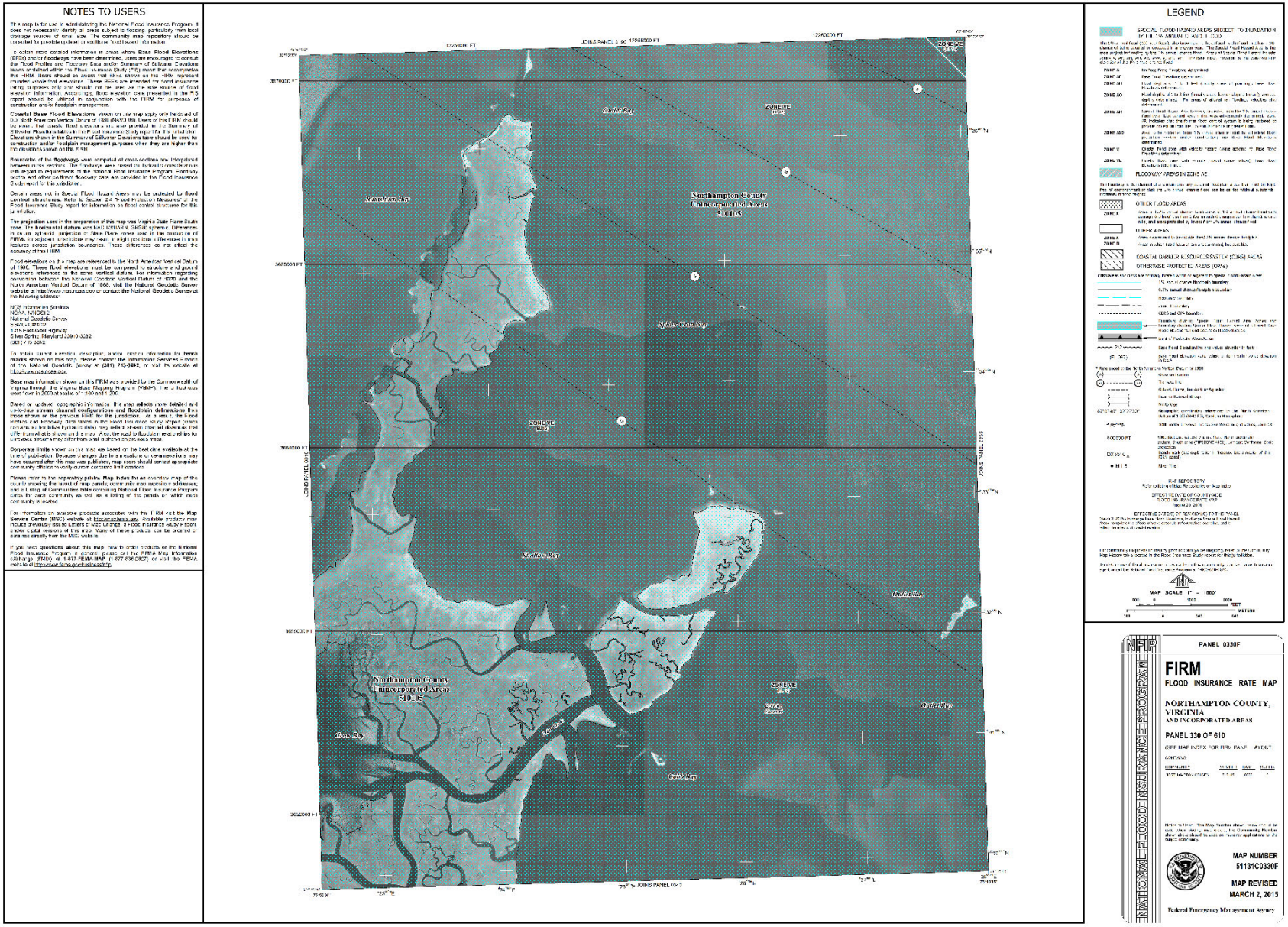
NOTES TO USERS
LEGEND
Northampton County
Unincorporated Areas
510105
Hunting Bay
Sheldon Creek Bay
Sheldon Bay
Cobb Bay
Cherrystone Creek
Nassawadox Creek
ZONE VE
ZONE AE
JOINS PANEL 0310
JOINS PANEL 0335
JOINS PANEL 0315
JOINS PANEL 0330
PANEL 0330F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 330 OF 610
MAP NUMBER
51131C0330F
MAP REVISED
MARCH 2, 2015
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM

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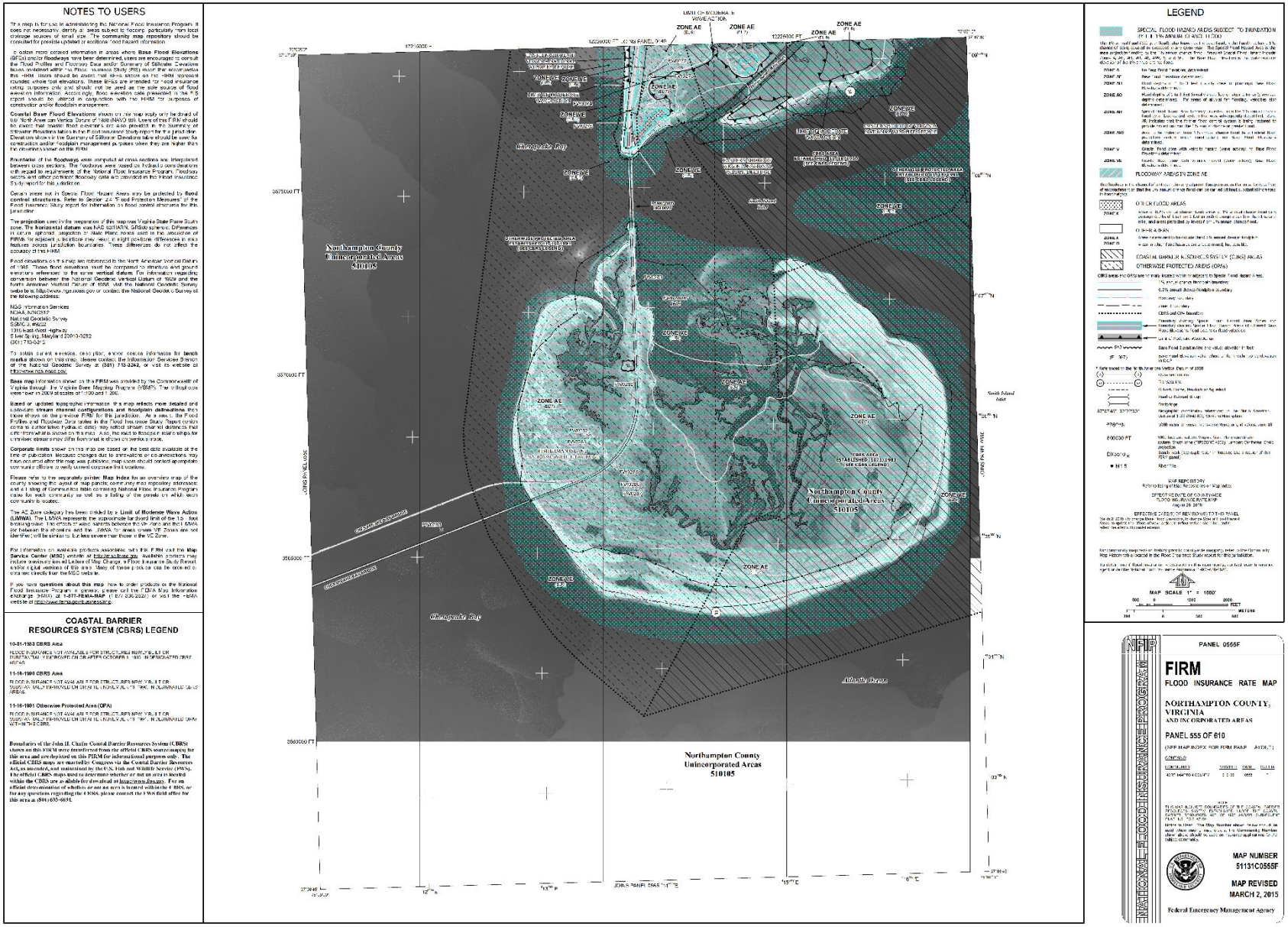
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Northampton County Unincorporated Areas 510105
Chesapeake Bay
Atlantic Ocean
LEGEND
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA AND INCORPORATED AREAS
PANEL 555 OF 610
MAP NUMBER 51131C0555F
MAP REVISED MARCH 2, 2015
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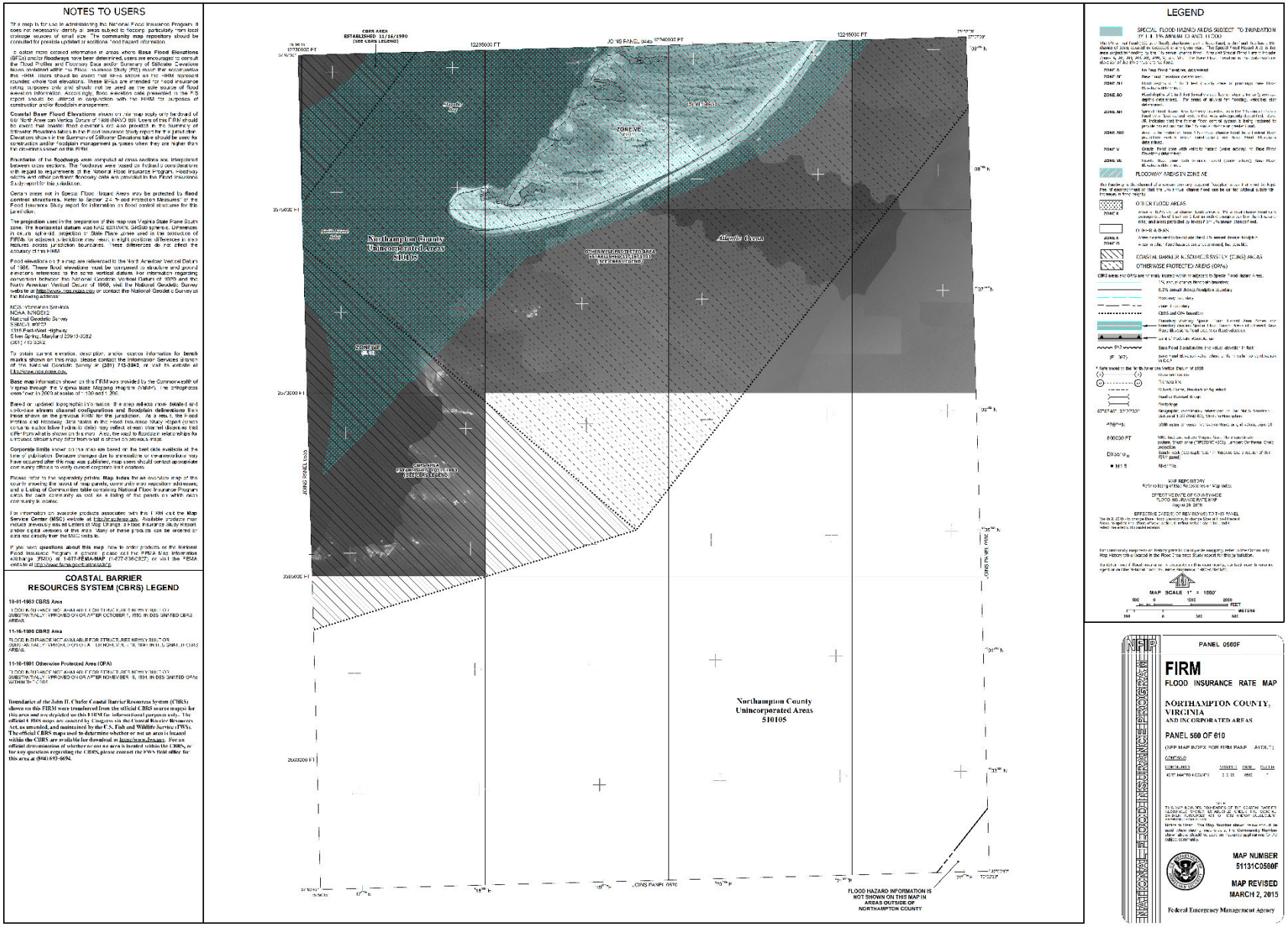
NOTES TO USERS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND
Northampton County Unincorporated Areas 510105
Atlantic Ocean
ZONE VE
ZONE AE
CBRS AREA
OTHERWISE PROTECTED AREA
FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF NORTHAMPTON COUNTY
LEGEND
FLOODWAY AREAS IN ZONE AE
OTHER FLOOD AREAS
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)
MAP SCALE 1" = 1000'
PANEL 0560F
FIRM
FLOOD INSURANCE RATE MAP
NORTHAMPTON COUNTY, VIRGINIA
AND INCORPORATED AREAS
PANEL 560 OF 610
MAP NUMBER 51131C0560F
MAP REVISED MARCH 2, 2015
Federal Emergency Management Agency

Commonwealth of Virginia

CFPF, rr <cfpf@dcr.virginia.gov>

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