

APPENDIX F – PRINCE EDWARD COUNTY

Hazard Rankings

Status of Mitigation Actions

Building Permit Data

Land Use Cover Map

Future Land Use Map

Critical Facilities Map

Flood Zone Map

NFIP Survey Results

Dam Inundation Zone Maps

Hazard Rankings – Pr. Edward Co. (From Qualitative Assessment and Local Input)

Hazard	Likelihood	Spatial Extent	Potential Impact	HAZARD RATING
Drought	2	3	2	7
Severe Thunderstorms and Tornadoes	3	2	2	7
Winter Storms	2	3	2	7
Hurricanes and Tropical Storms	2	2	2	6
Flood	3	2	1	6
Dam/Levee Failure	1	2	3	6
Erosion	1	1	1	3
Wildfire	1	1	1	3
Earthquakes	1	1	1	3
Landslides	0	1	1	2
Sinkholes	0	1	1	2

Hazard rankings are based on a qualitative assessment, as described below. The values assigned for each option chosen are added together for each hazard to arrive at a total score.

	Assigned Value	Definition
Likelihood of Occurrence		
Highly Likely	3	Near 100% annual probability
Likely	2	Between 10 and 100% annual probability
Possible	1	Between 1 and 10% annual probability
Unlikely	0	Less than 1% annual probability
Spatial Extent		
Large	3	More than 50% of area affected
Moderate	2	Between 10 and 50% of area affected
Small	1	Less than 10% of area affected
Potential Impact		
Catastrophic	4	High number of deaths/injuries possible. More than 50% of property in affected area damaged or destroyed. Complete shutdown of facilities for 30 days or more.
Critical	3	Multiple deaths/injuries possible. More than 25% of property in affected area damaged or destroyed. Complete shutdown of facilities for more than one week.
Limited	2	Minor injuries only. More than 10% of property in affected area damaged or destroyed. Complete shutdown of facilities for more than one day.
Minor	1	Very few injuries, if any. Only minor property damage and minimal disruption on quality of life. Temporary shutdown of facilities.

Detailed Information/Status of Local Mitigation Actions

(includes detailed data for each action, as requested by FEMA)

Prince Edward County Mitigation Action 1	Update and improve GIS data for tax parcels, public works, existing businesses, and MSAG.	
Category:	Prevention	
Hazard(s) Addressed:	Multiple	
Priority (High, Moderate, Low):	Moderate/High	
Estimated Cost:	\$60,000	
Potential Funding Sources:	Would likely seek grant funding	
Lead Agency/Department Responsible:	Prince Edward County Administrator's Office	
Implementation Schedule:	Dependant on availability of funding	
Status: County received grant from VITA in 2009 for this activity. Project ongoing.		
<i>NOTE: This action was amended. It originally read: "Digitize tax maps and implement GIS."</i>		

Prince Edward County Mitigation Action 2	Review all permits for new development and substantial improvements for compliance with the County's ordinances as they relate to flood areas.	
Category:	Prevention/Property Protection	
Hazard(s) Addressed:	Flood	
Priority (High, Moderate, Low):	Moderate	
Estimated Cost:	None	
Potential Funding Sources:	N/A	
Lead Agency/Department Responsible:	County Planning Department, Building Inspector	
Implementation Schedule:	Short/near term	
Status: Ongoing – enforced through County ordinances		

The County added four (4) new mitigation actions, as seen below:

Prince Edward County New Mitigation Action	Designate and equip emergency shelters in several existing locations in the County; and install quick-connect system and make building/facility renovations to Central Shelter/State-Managed Pet Shelter location.	
Category:	Emergency Services	
Hazard(s) Addressed:	Multiple	
Priority (High, Moderate, Low):	Moderate/High	
Estimated Cost:	Depends on scope of work needed	
Potential Funding Sources:	Local/grant funds	
Lead Agency/Department Responsible:	Prince Edward County Administrator's Office	
Implementation Schedule:	Dependent on availability of funding	
Status: Need to coordinate with DSS and Red Cross on this.		

Prince Edward County New Mitigation Action	Install quick-connect system and purchase generator for County fueling system, which serves county government and schools, public safety and public works vehicles.	
Category:	Emergency Services	
Hazard(s) Addressed:	Multiple	
Priority (High, Moderate, Low):	Moderate/High	
Estimated Cost:	Approx. \$25,000 for quick-connect, \$15,000 or more for generator (depending on type and size)	
Potential Funding Sources:	VDEM/FEMA grant funds, with local match	
Lead Agency/Department Responsible:	Prince Edward County Administrator's Office	
Implementation Schedule:	Dependent on availability of funding	
Status: No action taken – awaiting funding.		

Prince Edward County New Mitigation Action	Update regional (Town of Farmville/P.E. County) water supply plan and County Drought Ordinance.	
Category:	Prevention	
Hazard(s) Addressed:	Drought	
Priority (High, Moderate, Low):	Moderate/High	
Estimated Cost:	Minimal – staff time	
Potential Funding Sources:	Local	
Lead Agency/Department Responsible:	Prince Edward County Administrator's Office	
Implementation Schedule:	Near term	
Status: In progress.		

Prince Edward County New Mitigation Action	Acquisition and removal of remaining homes in floodplain areas of the County.	
Category:	Structural Projects	
Hazard(s) Addressed:	Flood	
Priority (High, Moderate, Low):	Moderate	
Estimated Cost:	\$500,000 +/-	
Potential Funding Sources:	FEMA – Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation Program (PDM), Flood Mitigation Assistance Program (FMA)	
Lead Agency/Department Responsible:	County	
Implementation Schedule:	Dependant on availability of funding	
Status: No action taken – awaiting funding.		

The County chose to remove one (1) mitigation action, as seen below:

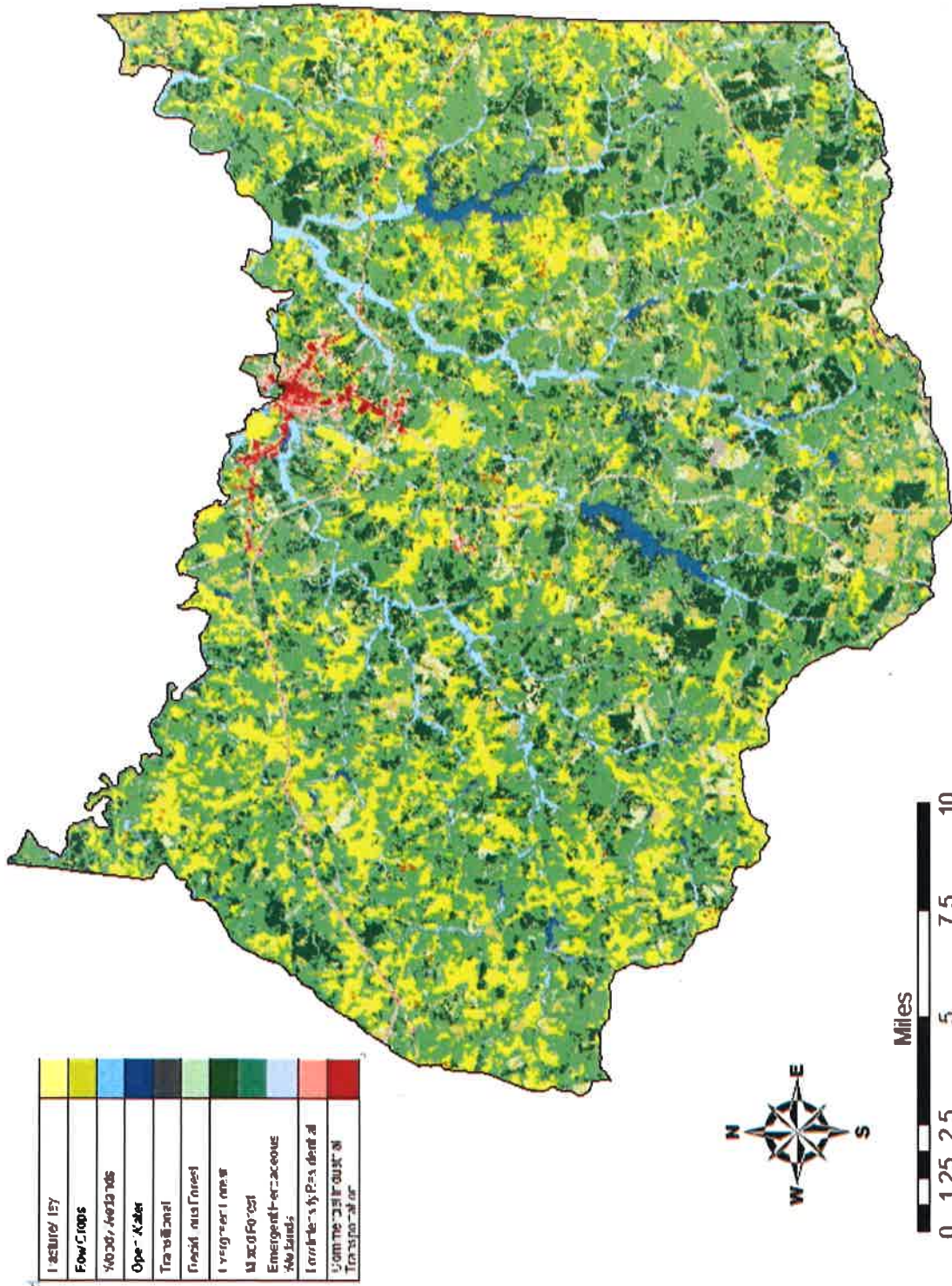
Prince Edward County Mitigation Action	Purchase generator (30kw) for Prince Edward County Middle School which serves as an emergency shelter.	
Category:	Emergency Services	
Hazard(s) Addressed:	Multiple	
Priority (High, Moderate, Low):	High/Moderate	
Estimated Cost:	\$15,000	
Potential Funding Sources:	County, with help from grant funds	
Lead Agency/Department Responsible:	Prince Edward County Administrator's Office	
Implementation Schedule:	Dependent on availability of funding	
Status: <i>Remove</i> – No records of this having been done, action being replaced with new action to address emergency shelters (see above – new actions).		

Building Permit Data – Prince Edward County

Year	Residential Permits Issued	Commercial Permits Issued
1997	188	6
1998	202	4
1999	195	9
2000	178	17
2001	148	7
2002	182	11
2003	147	7
2004	158	9
2005	164	16
2006	187	16
2007	161	9
2008	126	3
2009	97	5
2010	72	8
2011	61	15
2012	54	8
2013	63	15
2014	66	12
2015	67	6

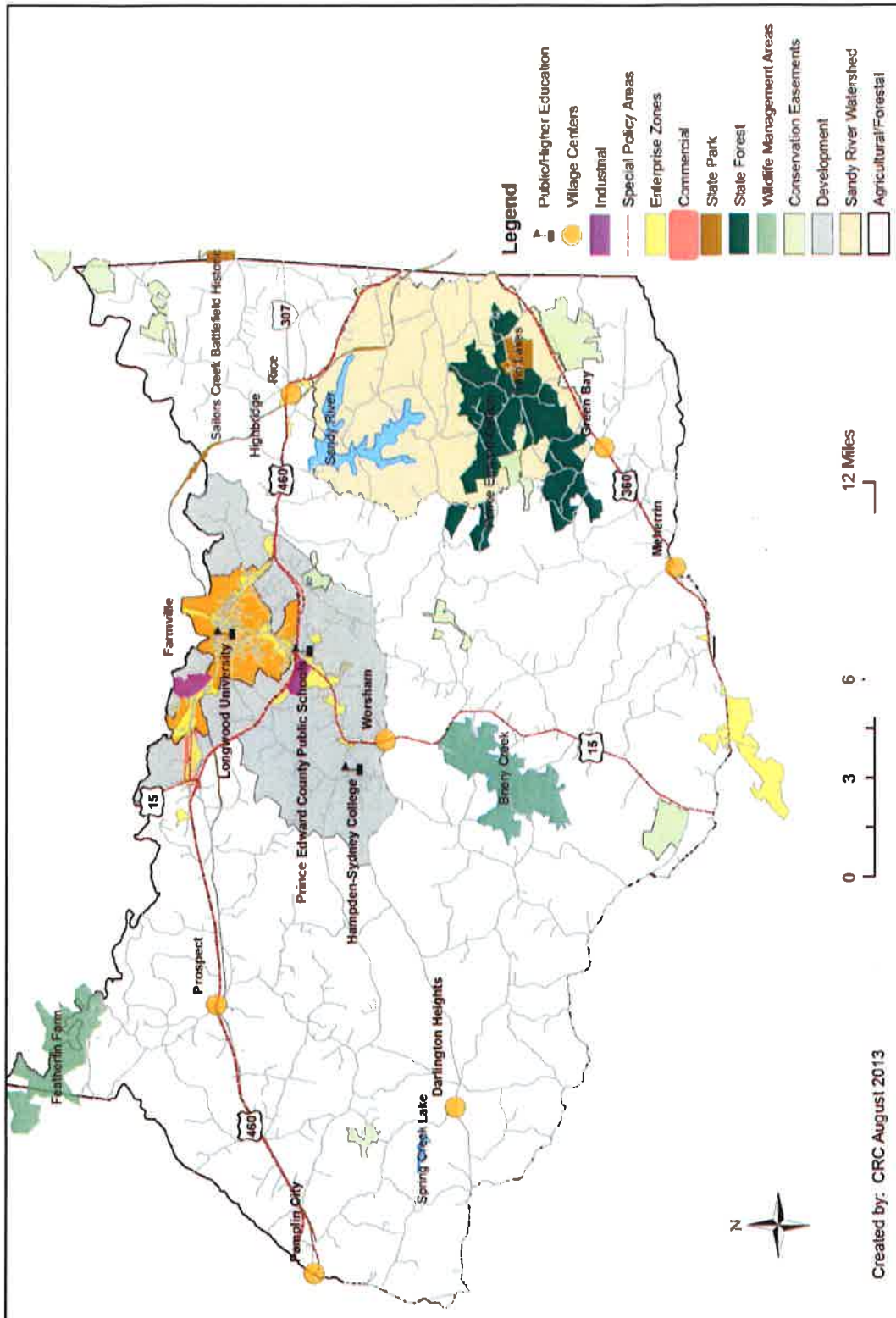
NOTE: These numbers do NOT include the Town of Farmville. The Town handles its own building permits.

Prince Edward County/Town of Farmville Land Use Cover Map



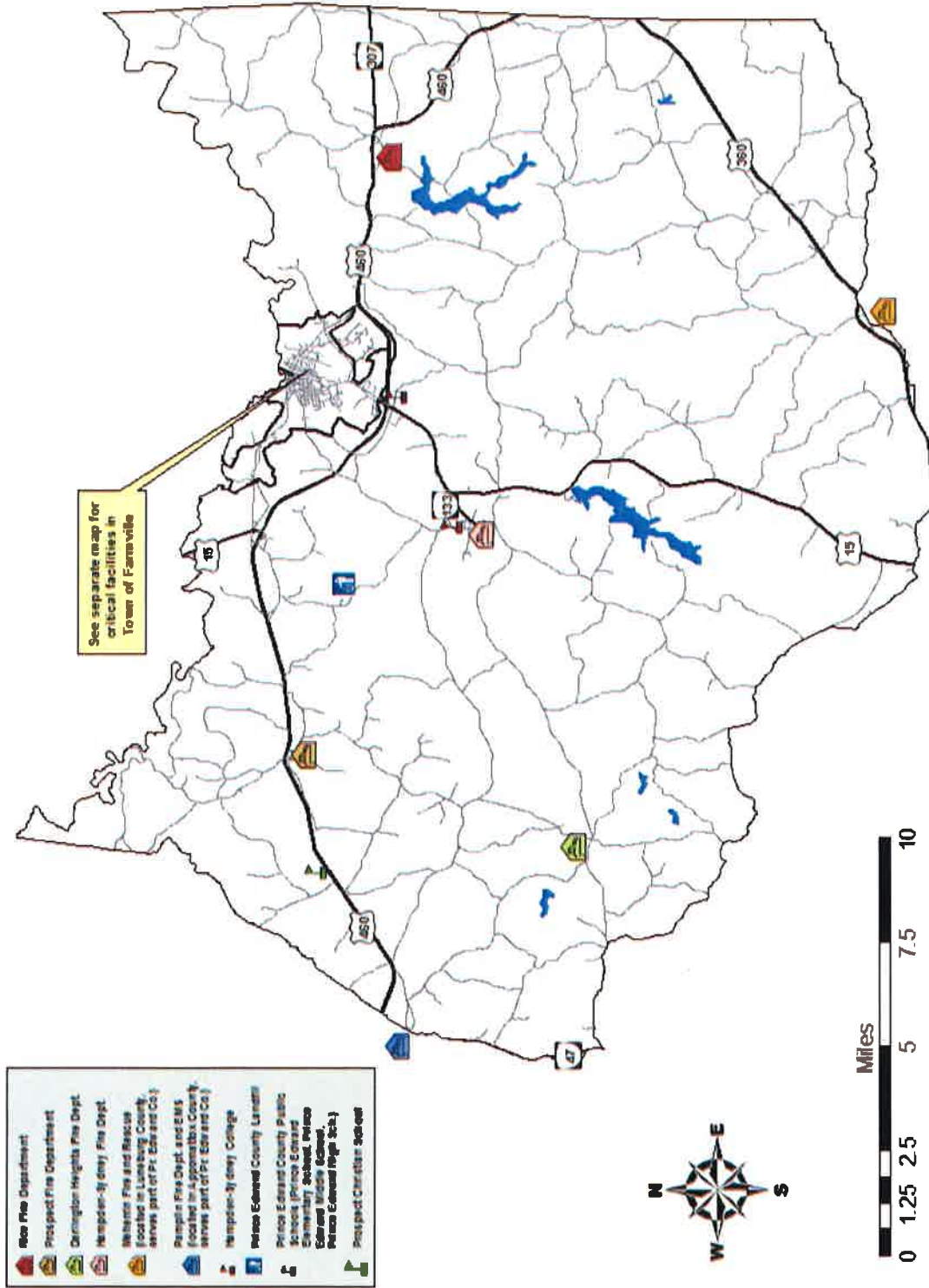
Map created by CRC - October 2015
 Source: 2011 National Land Use Cover Dataset

Prince Edward County Future Land Use Map



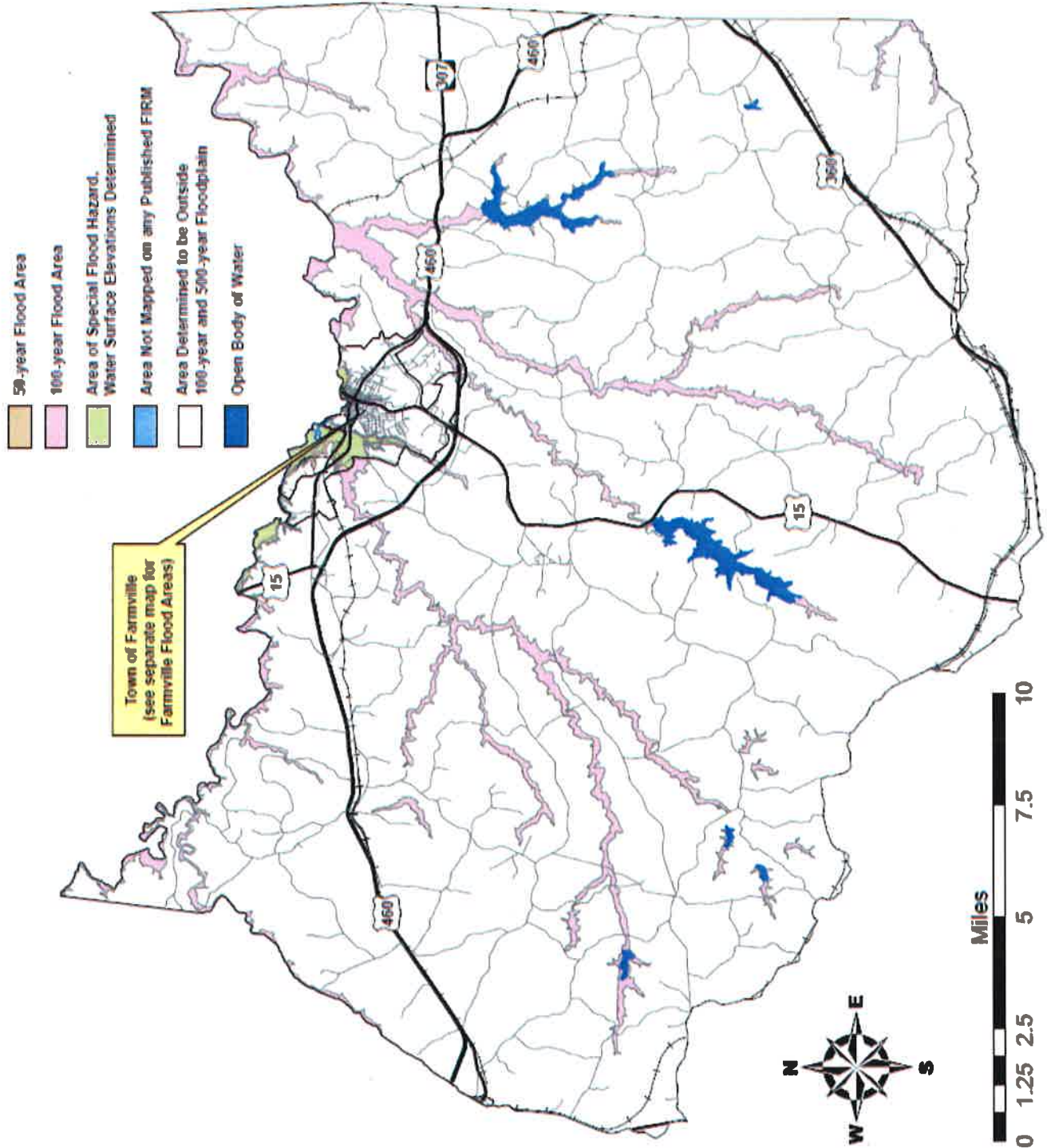
Map created by CRC – August 2013
 Source: Prince Edward County Planning and Zoning

Prince Edward County Critical Facilities Map



Map created by CRC – February 2011 (updated August 2016)
Source: Prince Edward County

Prince Edward County Flood Zone Map



Map created by CRC – February 2011 (Source: FEMA)

NFIP Survey Results

MUNICIPALITY: COUNTY OF PRINCE EDWARD, VIRGINIA

1. FLOODPLAIN IDENTIFICATION AND MAPPING			
Requirement	Recommended Action	Yes/No	Comments
a. Does the municipality maintain accessible copies of an effective Flood Insurance Rate Map (FIRM)/Digital Flood Insurance Rate Map (DFIRM)? Does the municipality maintain accessible copies of the most recent Flood Insurance Study (FIS)?	Place these documents in the local libraries or make available publicly.	Yes	
b. Has the municipality adopted the most current DFIRM/FIRM and FIS?	State the date of adoption, if approved.	Yes	September 8, 2009
c. Does the municipality support request for map updates?	If yes, state how.	Yes	Study and acceptance of the USACE or other qualified agency documents the need and approval by the Federal Insurance Administration.
d. Does the municipality share with Federal Emergency Management Agency (FEMA) any new technical or scientific data that could result in map revisions within 6 months of creation or identification of new data?	If yes, specify how.	Yes	Submittal of information to the Federal Insurance Administrator.
e. Does the municipality provide assistance with local floodplain determinations?	If yes, specify how.	Yes	Assist citizens, corporations, etc., by verifying property locations on FIRM Maps.
f. Does the municipality maintain a record of approved Letters of Map Change?	If yes, specify the responsible office.	Yes	Planning & Community Development

2. FLOODPLAIN MANAGEMENT			
Requirement	Recommended Action	Yes/No	Comments
a. Has the municipality adopted a compliant floodplain management ordinance that, at a minimum, regulates the following:	If yes, answer questions (1) through (4) below.	Yes	
(1) Does the municipality issue permits for all proposed development in the Special Flood Hazard Areas (SFHAs)?	If yes, specify the office responsible.	Yes	Building Office
(2) Does the municipality obtain, review, and utilize any Base Flood Elevation (BFE) and floodway data, and/or require BFE data for subdivision proposals and other development proposals larger than 50 lots or 5 acres?	If yes, specify the office responsible.	Yes	Planning & Community Development
(3) Does the municipality identify measures to keep all new and substantially improved construction reasonably safe from flooding to or above the BFE, including anchoring, using flood-resistant materials, and designing or locating utilities and service facilities to prevent water damage?	If yes, specify the office responsible.	Yes	Building Office and Planning & Community Development
(4) Does the municipality document and maintain records of elevation data that document lowest floor elevation for new or substantially improved structures?	If yes, specify the office responsible.	Yes	Building Office and Planning & Community Development
b. If a compliant floodplain ordinance was adopted, does the municipality enforce the ordinance by monitoring compliance and taking remedial action to correct violations?	If yes, specify how.	Yes	During plan review process.

2. FLOODPLAIN MANAGEMENT			
<i>Requirement</i>	<i>Recommended Action</i>	<i>Yes/No</i>	<i>Comments</i>
c. Has the municipality considered adopting activities that extend beyond the minimum requirements? Examples include: <ul style="list-style-type: none"> • Participation in the Community Rating System • Prohibition of production or storage of chemicals in SFHA • Prohibition of certain types of structures, such as hospitals, nursing homes, and jails in SFHA • Prohibition of certain types of residential housing (manufactured homes) in SFHA • Floodplain ordinances that prohibit any new residential or nonresidential structures in SFHA 	If yes, specify activities.	No	

3. FLOOD INSURANCE			
<i>Requirement</i>	<i>Recommended Action</i>	<i>Yes/No</i>	<i>Comments</i>
a. Does the municipality educate community members about the availability and value of flood insurance?	If yes, specify how.	No	
b. Does the municipality inform community property owners about changes to the DFIRM/FIRM that would impact their insurance rates?	If yes, specify how.	No	
c. Does the municipality provide general assistance to community members regarding insurance issues?	If yes, specify how.	Yes	Help answer questions.

Prince Edward County Dam Inundation Zone Maps

(Source: Williamsburg Environmental Group, Hurt & Proffitt)

Buffalo River Dam #1

Buffalo River Dam #2

Buffalo Creek Dam #3

Buffalo Creek Dam #4

Buffalo Creek Dam #5

Buffalo Creek Dam #6

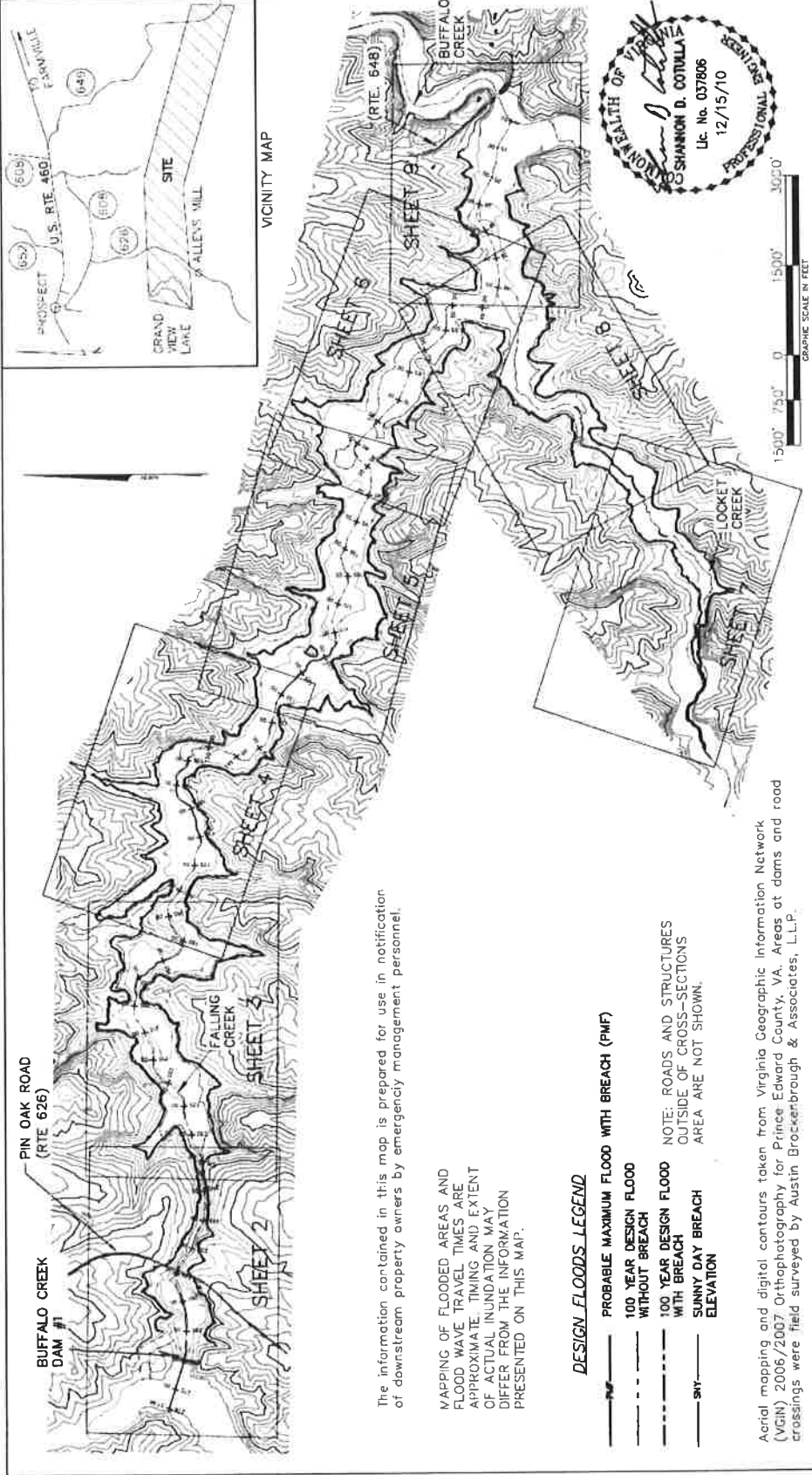
Buffalo Creek Dam #7

Buffalo Creek Dam #8

Buffalo Creek Dam #9

Bush River Dam #2

Bush River Dam #7



The information contained in this map is prepared for use in notification of downstream property owners by emergency management personnel.

MAPPING OF FLOODED AREAS AND FLOOD WAVE TRAVEL TIMES ARE APPROXIMATE. TIMING AND EXTENT OF ACTUAL INUNDATION MAY DIFFER FROM THE INFORMATION PRESENTED ON THIS MAP.

DESIGN FLOODS LEGEND

- PROBABLE MAXIMUM FLOOD WITH BREACH (PMF)
 - - - 100 YEAR DESIGN FLOOD WITHOUT BREACH
 - · - · 100 YEAR DESIGN FLOOD WITH BREACH
 - SUNNY DAY BREACH ELEVATION
- NOTE: ROADS AND STRUCTURES OUTSIDE OF CROSS-SECTIONS AREA ARE NOT SHOWN.

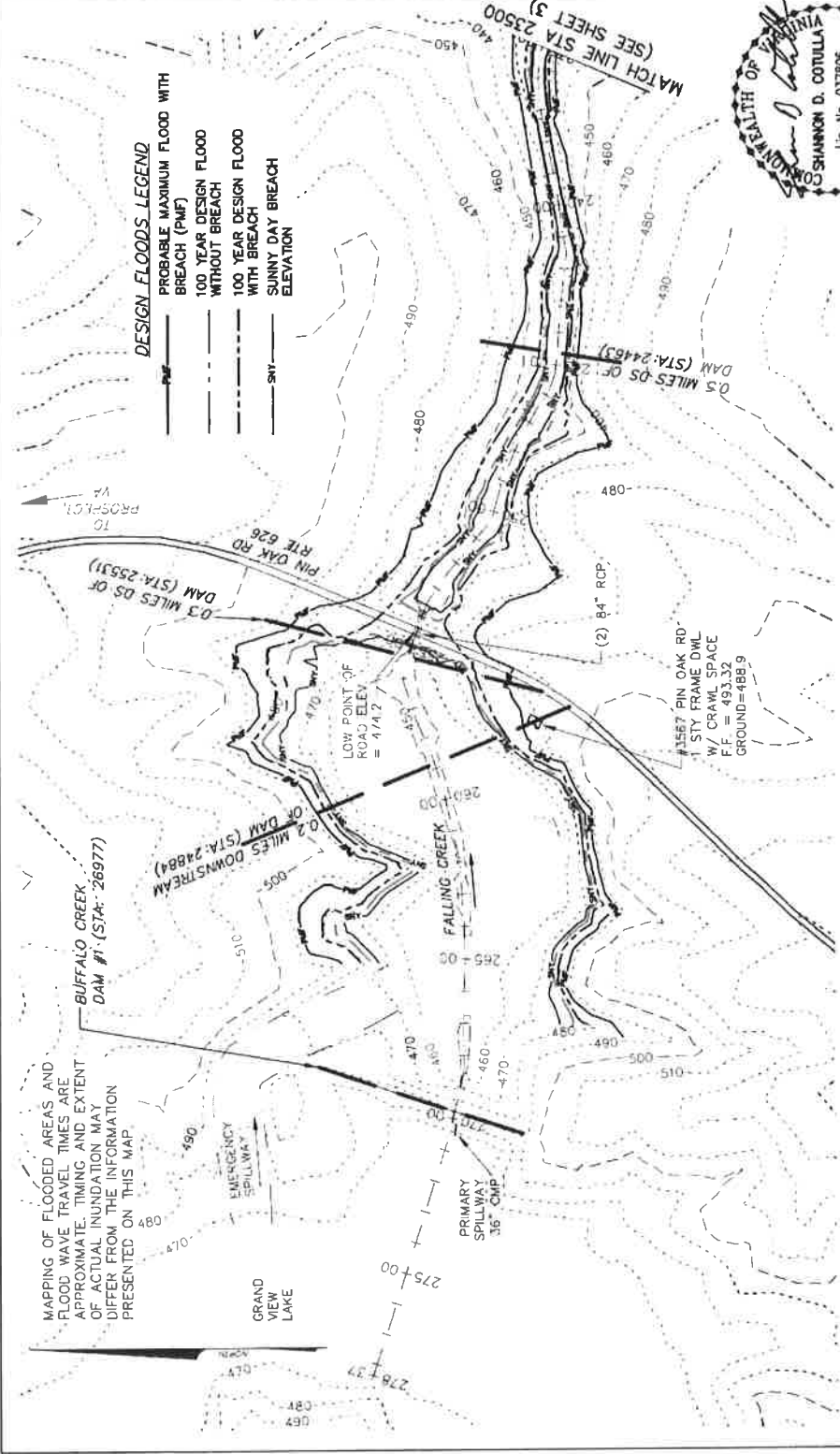
Aerial mapping and digital contours taken from Virginia Geographic Information Network (VGIN) 2006/2007 Orthophotography for Prince Edward County, VA. Areas at dams and road crossings were field surveyed by Austin Brockebrough & Associates, LLP.

<p>REVISIONS: 12/15/10 PROJECT NO. 20090352 G.I. NO. 267-06-BA.1 FILE NO. E-12742 DATE: 10/04/09 DRAWN BY: NRH CHECKED BY: SKC</p>	<p>INUNDATION ZONE MAP DAM BREACH FLOOD ELEVATIONS (INCREMENTAL DAMAGE ASSESSMENT) BUFFALO CREEK DAM #1 PRINCE EDWARD COUNTY, VA</p>	<p>HURT & PROFFITT INCORPORATED 7524 LANGRISH ROAD SUITE 100 RENO, NV 89502 800.242.4936 TOLL FREE 434.847.7796 MAIN 434.947.2007 FAX</p>
<p>SHEET NO. 1 OF 9</p>		

**INUNDATION ZONE MAP
 DAM BREACH FLOOD ELEVATIONS (IDA)
 BUFFALO CREEK DAM #1
 PRINCE EDWARD COUNTY, VA**

REVISIONS: 12/15/10
 PROJECT NO. 20090352
 G.L. NO. 267-06-B4.2
 FILE NO. G-13742
 DATE: 10/06/09
 DRAWN BY: NRH
 CHECKED BY: SDC

SHEET NO.
2 OF 9



Note:
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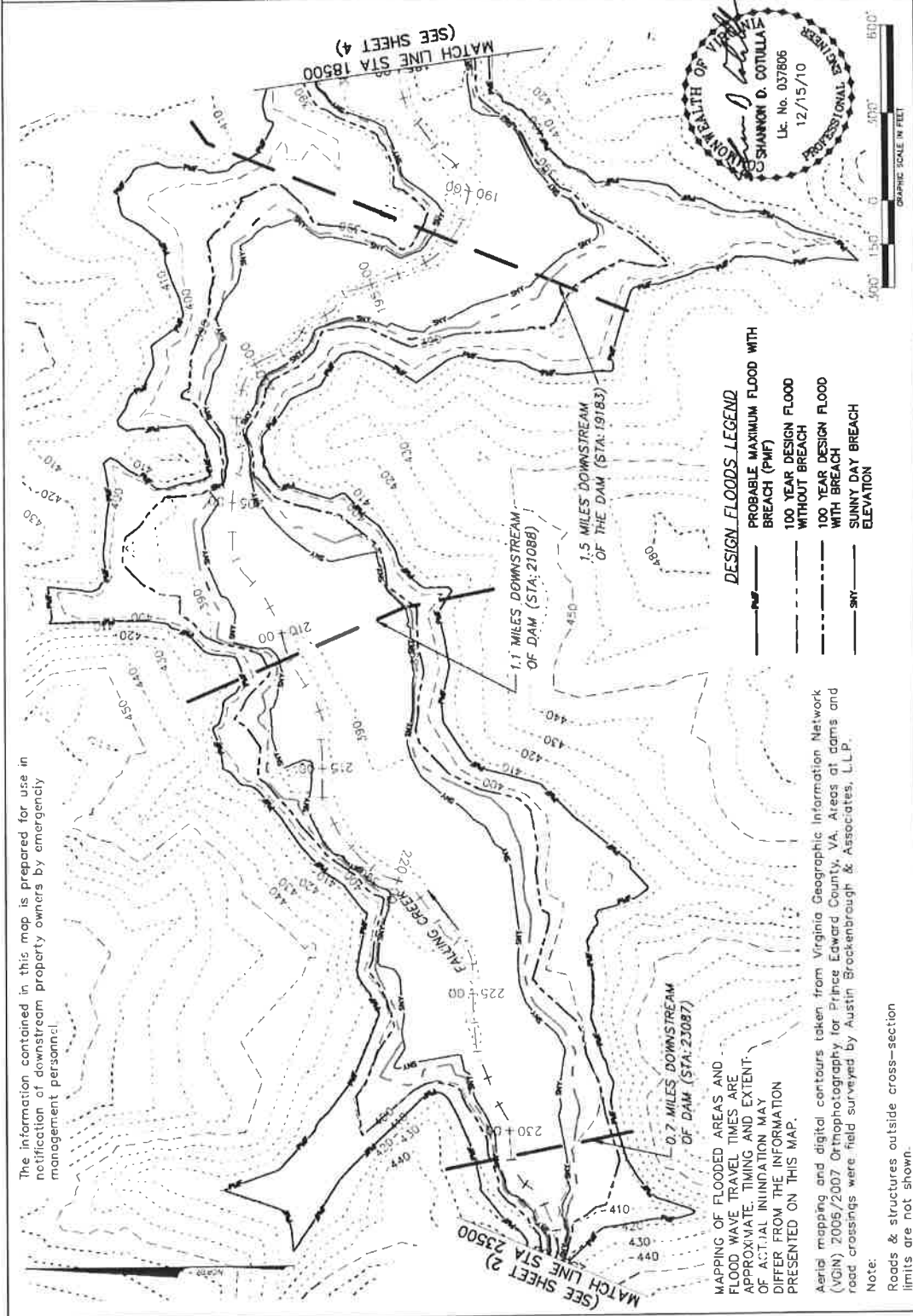
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**INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (IDA)
BUFFALO CREEK DAM #1
PRINCE EDWARD COUNTY, VA**

REVISIONS: 12/15/10
PROJECT NO. 20090332
G.L. NO. 267-06-B4.1
FILE NO. 6-17742
DATE: 10/06/09
DRAWN BY: KRH
CHECKED BY: SDC

SHEET NO. **3 OF 9**



COMMONWEALTH OF VIRGINIA
REGISTERED PROFESSIONAL
SHANNON D. COTULLA
Lic. No. 037806
12/15/10

- DESIGN FLOODS LEGEND**
- PROBABLE MAXIMUM FLOOD WITH BREACH (PMF)
 - 100 YEAR DESIGN FLOOD WITHOUT BREACH
 - 100 YEAR DESIGN FLOOD WITH BREACH
 - SUNNY DAY BREACH ELEVATION


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**INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (DA)
BUFFALO CREEK DAM #1
PRINCE EDWARD COUNTY, VA**

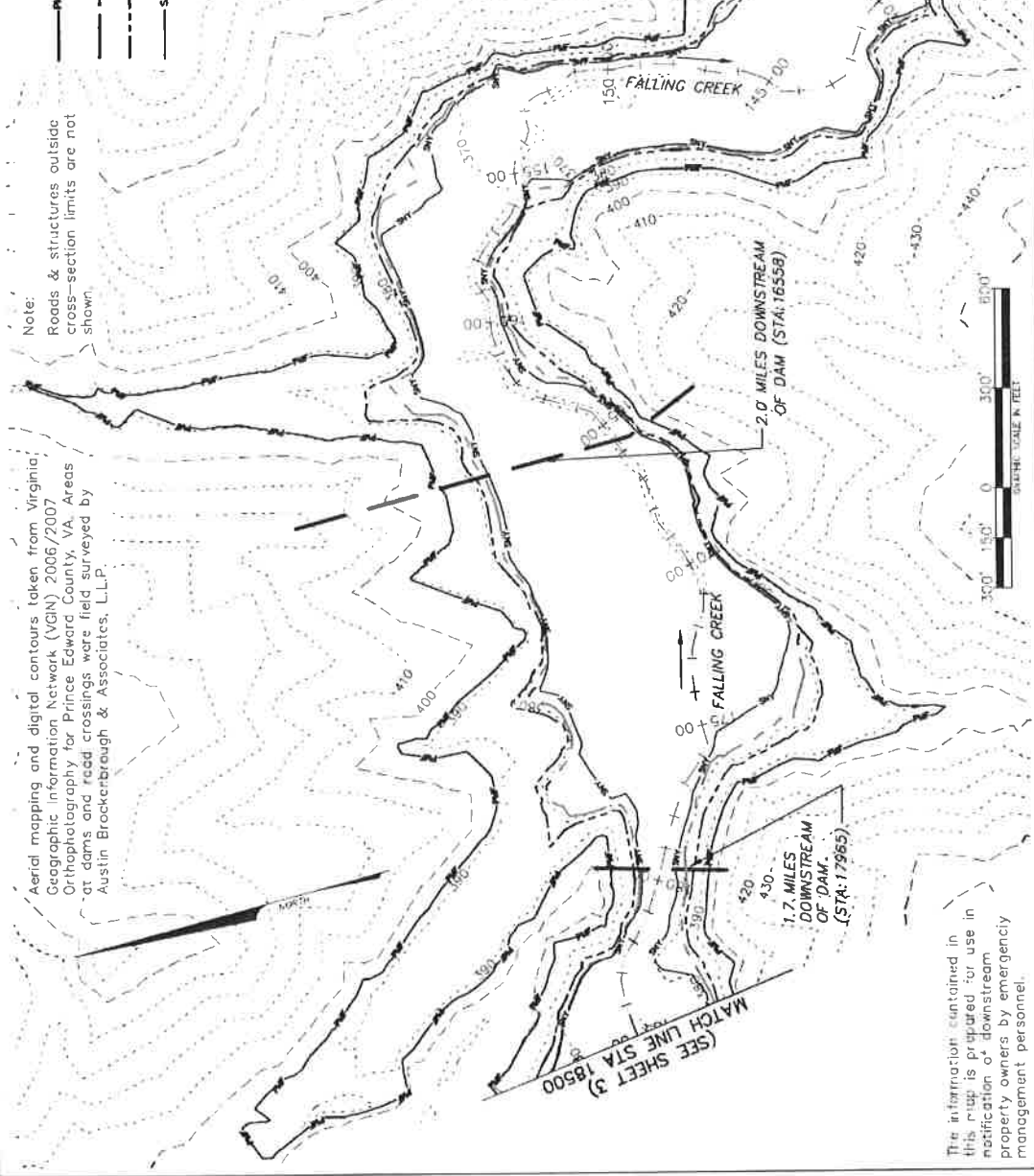
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PROJECT NO.:	20090352
G.L. NO.:	267-06-B43
FILE NO.:	G-12742
DATE:	10/06/09
DRAWN BY:	NRH
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SHEET NO.:	4 OF 9

DESIGN FLOODS LEGEND

- PMF — PROBABLE MAXIMUM FLOOD WITH BREACH (PMF)
- 100 YEAR DESIGN FLOOD WITHOUT BREACH
- 100 YEAR DESIGN FLOOD WITH BREACH
- SUNNY DAY BREACH ELEVATION

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COMMONWEALTH OF VIRGINIA
SHANNON D. COTULLA
L.E. No. 037806
12/15/10
PROFESSIONAL ENGINEER

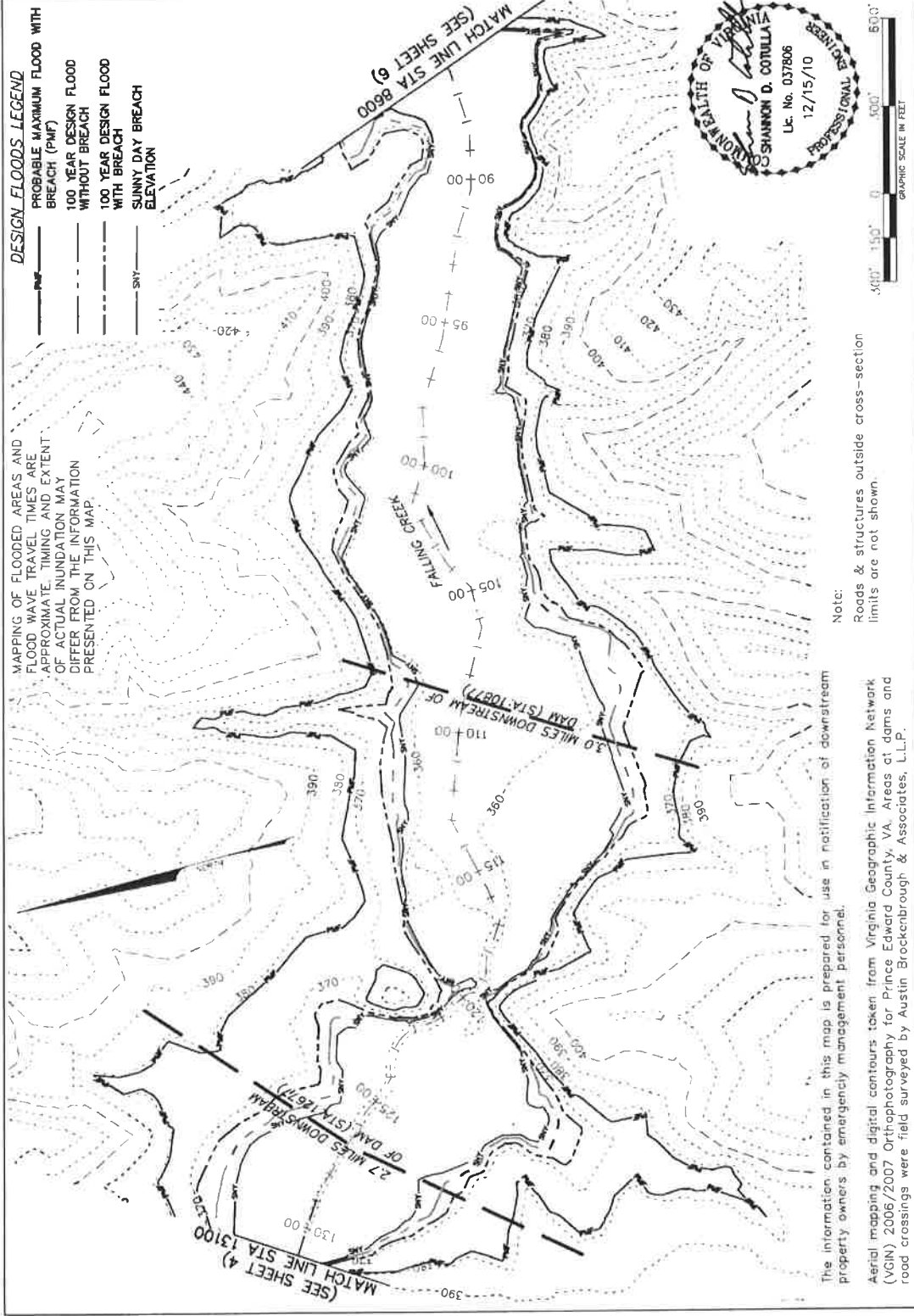


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INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (IDA)
BUFFALO CREEK DAM #1
 PRINCE EDWARD COUNTY, VA

REVISED: 12/15/10
 PROJECT NO. 20090352
 G.L. NO. 267-56-84.2
 FILE NO. G-12742
 DATE: 10/06/09
 DRAWN BY: NHB
 CHECKED BY: SOC

SHEET NO.
5 OF 9



DESIGN FLOODS LEGEND
 ———— PROBABLE MAXIMUM FLOOD WITH BREACH (PMF)
 - - - - 100 YEAR DESIGN FLOOD WITHOUT BREACH
 - - - - 100 YEAR DESIGN FLOOD WITH BREACH
 SUNNY DAY BREACH ELEVATION

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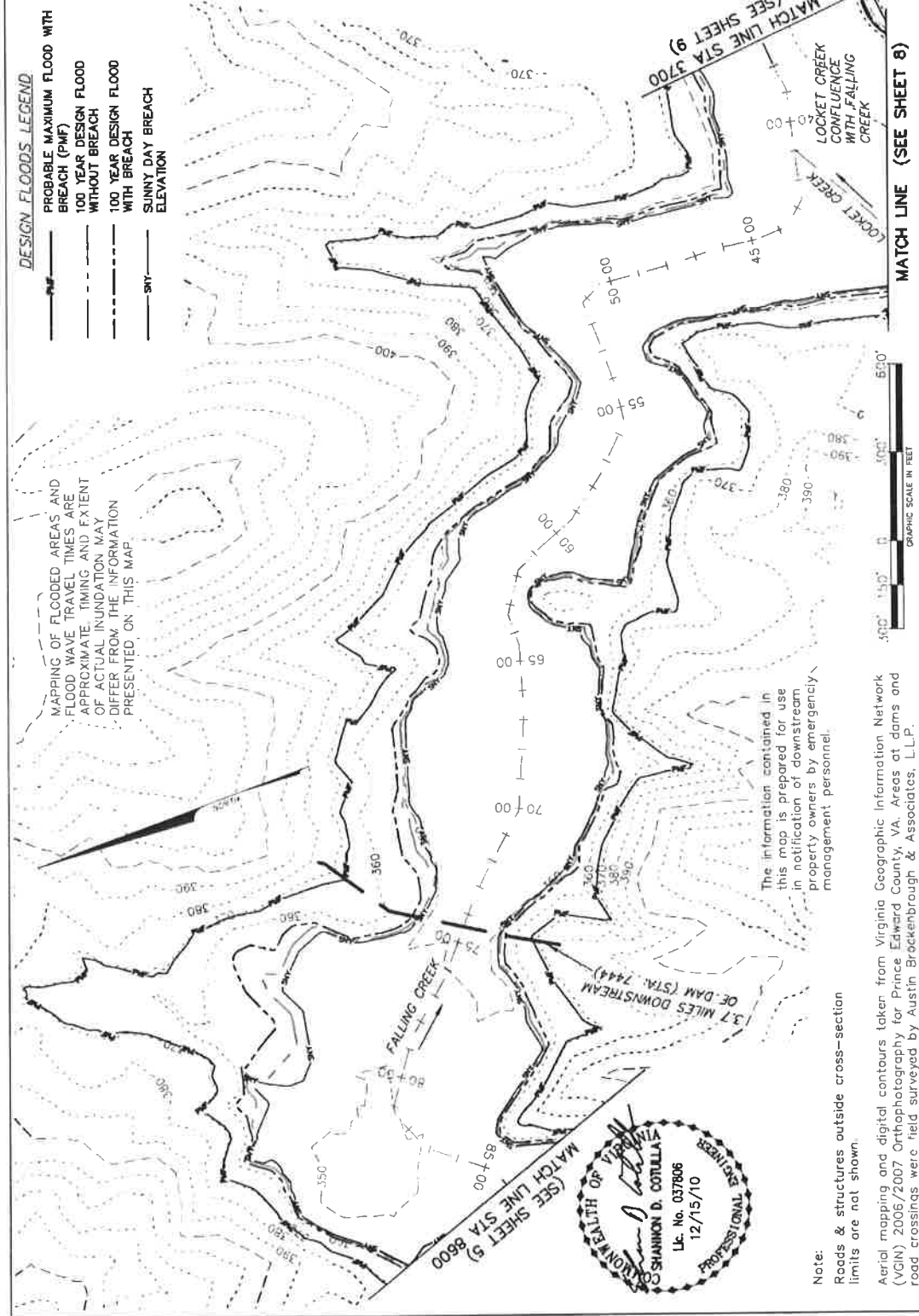
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**INUNDATION ZONE MAP
 DAM BREACH FLOOD ELEVATIONS (DA)
 BUFFALO CREEK DAM #1
 PRINCE EDWARD COUNTY, VA**

REVISED: 12/15/10
 PROJECT NO. 20090352
 G.L. NO. 267-06-BA.1
 FILE NO. G-12742
 DATE: 10/06/09
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SHEET NO.
6 OF 9



DESIGN FLOODS LEGEND

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- SUNNY DAY BREACH ELEVATION

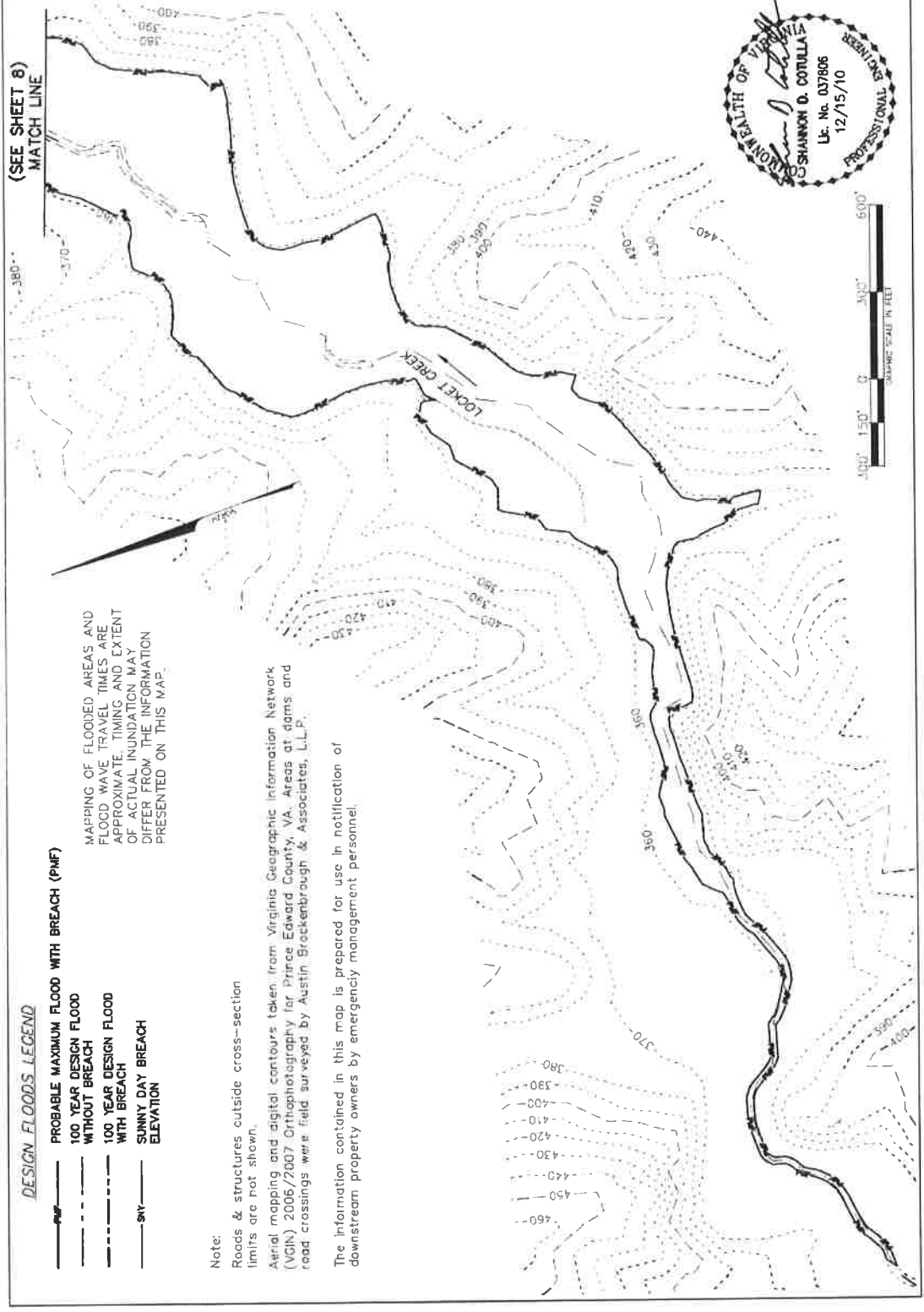
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PROFESSIONAL ENGINEER
 SHANNON D. COTULLA
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 12/15/10



DESIGN FLOODS LEGEND

- PROBABILE MAXIMUM FLOOD WITH BREACH (PMF)
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INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (DA)
BUFFALO CREEK DAM #1
 PRINCE EDWARD COUNTY, VA

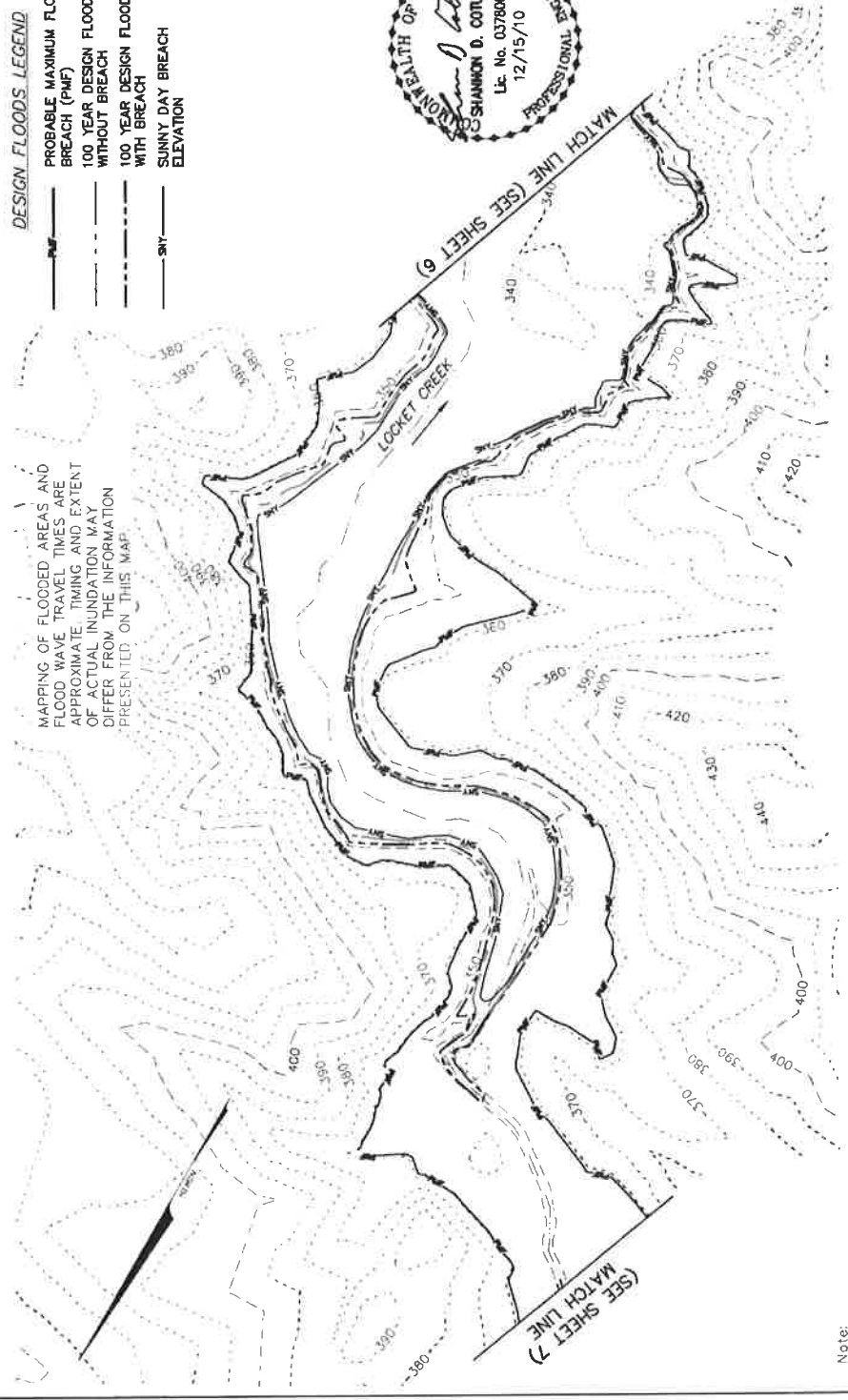
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 PROJECT NO.: 20090352
 G.L. NO.: 267-06-84.1
 FILE NO.: G-12742
 DATE: 10/06/09
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SHEET NO.
8 OF 9

DESIGN FLOODS LEGEND

- PROBABLE MAXIMUM FLOOD WITH BREACH (PMF) ———
- 100 YEAR DESIGN FLOOD WITHOUT BREACH - - - - -
- 100 YEAR DESIGN FLOOD WITH BREACH - - - - -
- SUNNY DAY BREACH ELEVATION ———

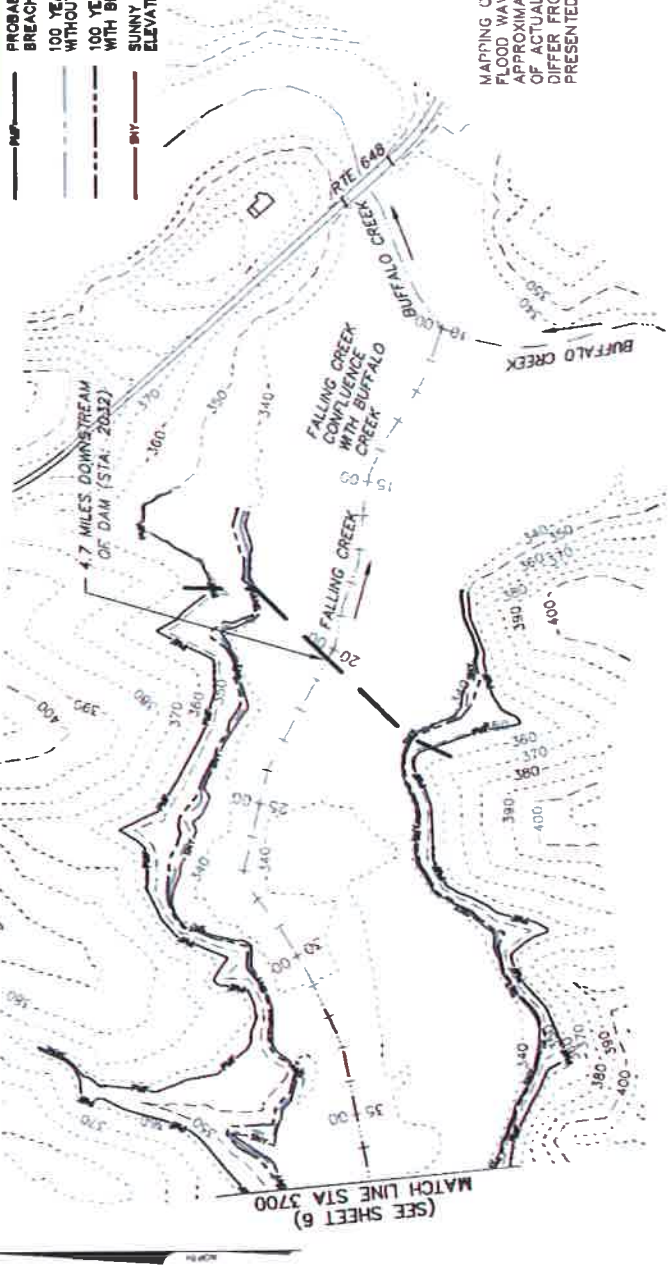
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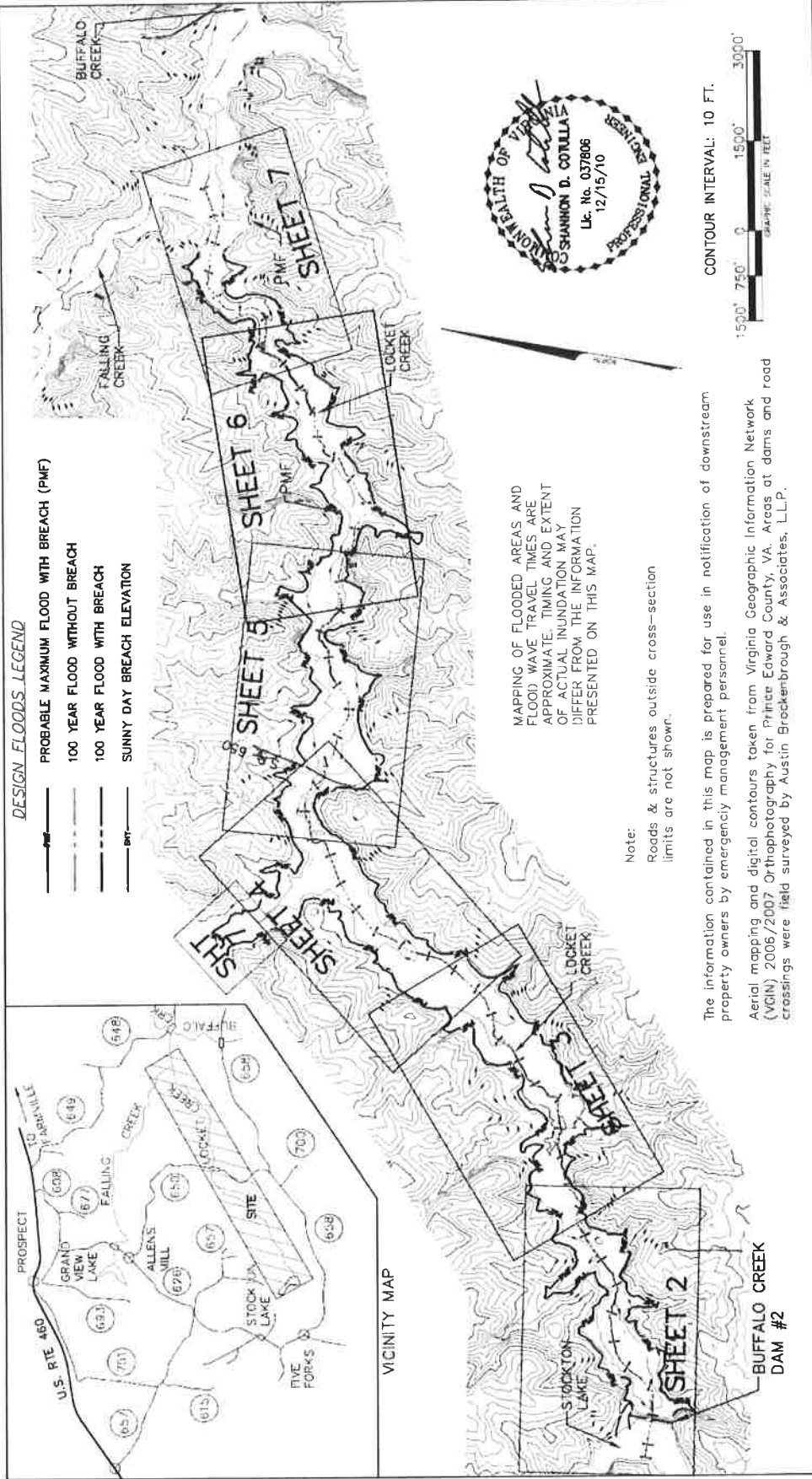
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HEC-RAS Station	Distance from Dam Miles	Travel Time Flood Minutes	Travel Time - Peak Water Surface Elevation Minutes	Max Water Surface Elevation		Water Depth at Structure Feet	Structure
				Surface Elevation	Surface Elevation		
20977	0.2	1	0	404.59	404.59	4.6	Dam
20984	0.3	1	1	488.48	488.48	3.4	Residence
20031	0.5	1	2	435.85	435.85	11.4	Route 630
24453	0.6	2	2	411.35	411.35		
20087	0.7	2	4	407.31	407.31		
10103	1.1	5	7	405.32	405.32		
17985	1.7	13	15	383.45	383.45		
16959	2.0	15	21	389.60	389.60		
18877	2.7	25	28	378.77	378.77		
10977	3.0	29	40	374.03	374.03		
7444	3.7	44	51	387.13	387.13		
2032	4.7	56	50	349.74	349.74		

(SEE SHEET 6)
 MATCH LINE STA 3700



DESIGN FLOODS LEGEND

- PMF PROBABLE MAXIMUM FLOOD WITH BREACH (PMF)
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- - - 100 YEAR FLOOD WITH BREACH
- SDY SUNNY DAY BREACH ELEVATION



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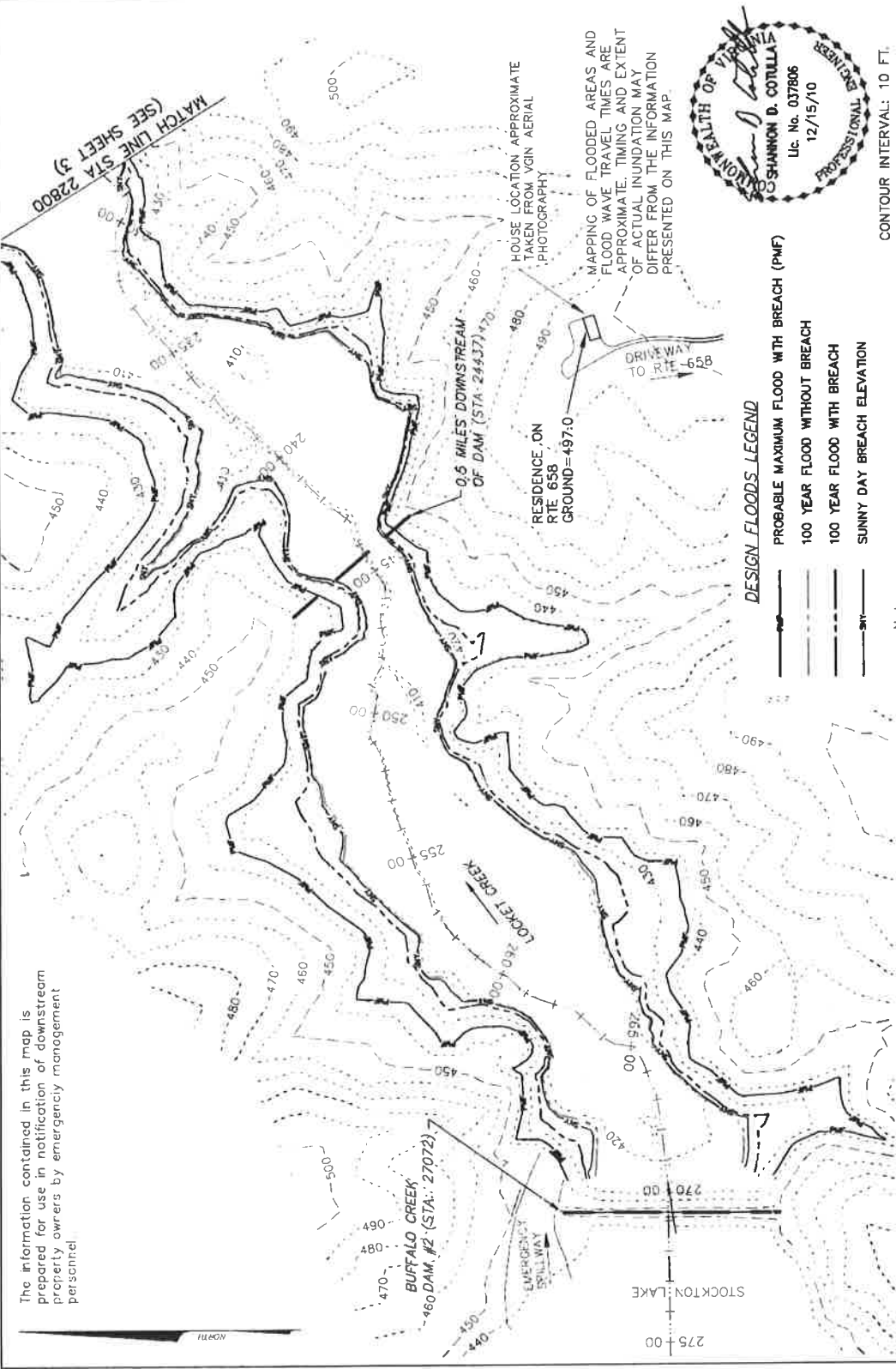
CONTOUR INTERVAL: 10 FT.

<p>HURT & PROFFITT INCORPORATED 1000 W. CHURCH ST. LYNCHBURG, VA 24502 800.243.4505 TOLL FREE 434.847.7796 MAIN 434.847.0047 FAX</p>	
<p>INUNDATION ZONE MAP DAM BREACH FLOOD ELEVATIONS (INCREMENTAL DAMAGE ASSESSMENT) BUFFALO CREEK DAM #2 PRINCE EDWARD COUNTY, VA</p>	
<p>REVISION: 12/15/10 PROJECT NO. 20090352 G.I. NO. 267-06-8A.1 FILE NO. G-12743 DATE: 09/29/09 DRAWN BY: NRIH/WL CHECKED BY: SDC</p>	<p>SHEET NO. 1 OF 7</p>

INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (IDA)
BUFFALO CREEK DAM #2
 PRINCE EDWARD COUNTY, VA

REVISED: 12/15/10
 PROJECT NO: 00800032
 S.L. NO: 241-06-00-041
 FILE NO: G-12743
 DATE: 09/29/09
 DRAWN BY: NHP/WE
 CHECKED BY: SDC

SHEET NO.
2 OF 7



DESIGN FLOODS LEGEND

- PROBABILE MAXIMUM FLOOD WITH BREACH (PMF)
- 100 YEAR FLOOD WITHOUT BREACH
- - - 100 YEAR FLOOD WITH BREACH
- SUNNY DAY BREACH ELEVATION



Note:
 Roads & structures outside cross-section limits are not shown.

The information contained in this map is prepared for use in notification of downstream property owners by emergency management personnel.

Aerial mapping and digital contours taken from Virginia Geographic Information Network (VGIN) 2006/2007 Orthophotography for Prince Edward County, VA. Areas at dams and road crossings were field surveyed by Austin Brockenbrough & Associates, L.L.P.

MAPPING OF FLOODED AREAS AND FLOOD WAVE TRAVEL TIMES ARE APPROXIMATE. TIMING AND EXTENT OF ACTUAL INUNDATION MAY DIFFER FROM THE INFORMATION PRESENTED ON THIS MAP.

HOUSE LOCATION APPROXIMATE TAKEN FROM VGIN AERIAL PHOTOGRAPHY

0.5 MILES DOWNSTREAM OF DAM (STA. 24437) 470


RESIDENCE ON RTE 658 GROUND=497.0

DRIVEWAY TO RTE 658

BUFFALO CREEK
 -460 DAM #2 (STA.: 27072)

EMERGENCY
 DRAINAGE
 SWILLWAY

STOCKTON LAKE
 275 00 270 00

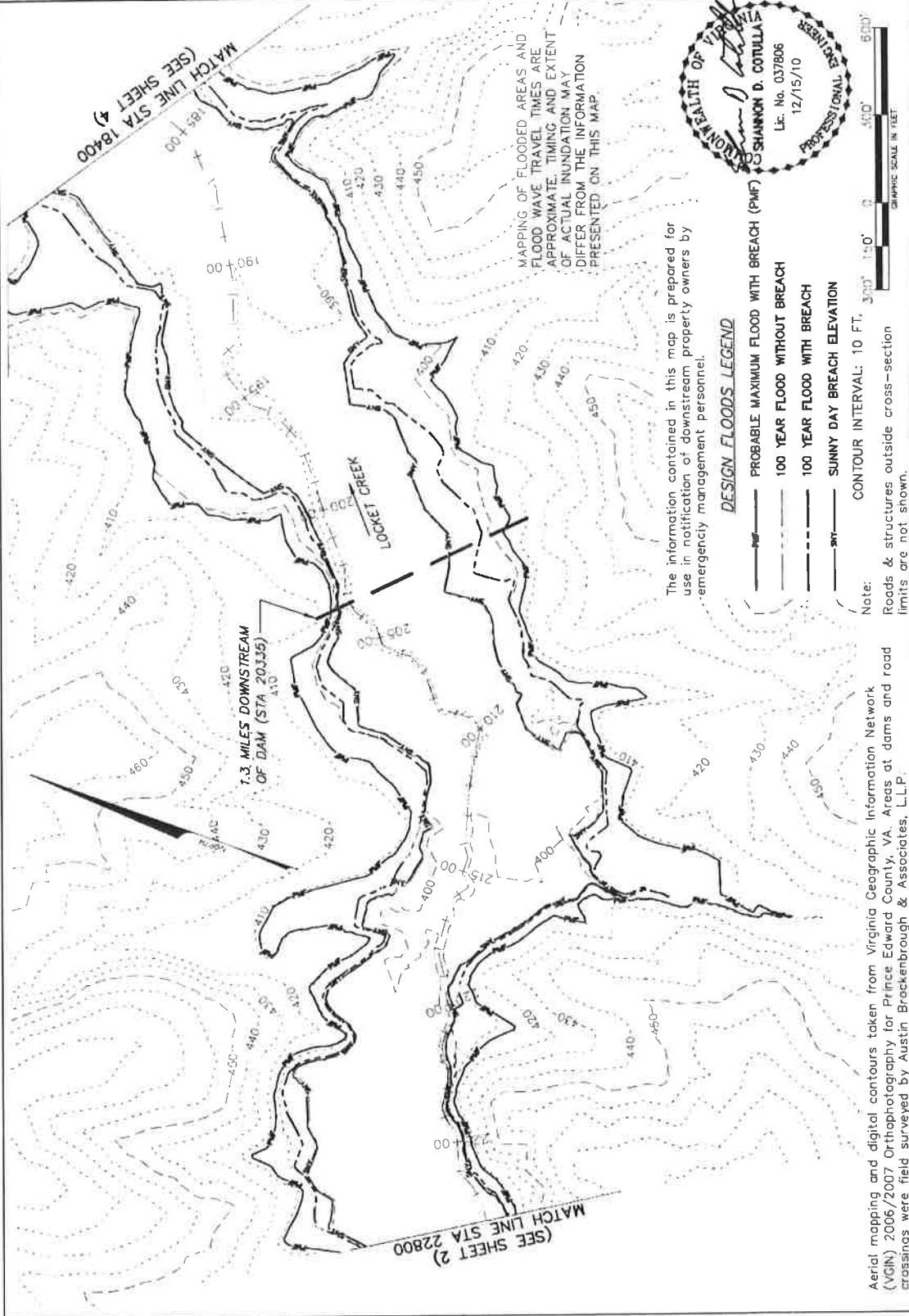


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2524 LANGHORNE ROAD
Lynchburg, VA 24501
434.779.6600
434.779.6601 FAX

INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (IDA)
BUFFALO CREEK DAM #2
PRINCE EDWARD COUNTY, VA

REVISED: 12/15/10
PROJECT NO.: 20090352
G.L. NO.: 267-06-BL
FILE NO.: G-12743
DATE: 09/29/09
DRAWN BY: WHP/AVL
CHECKED BY: SOC

SHEET NO.
3 OF 7

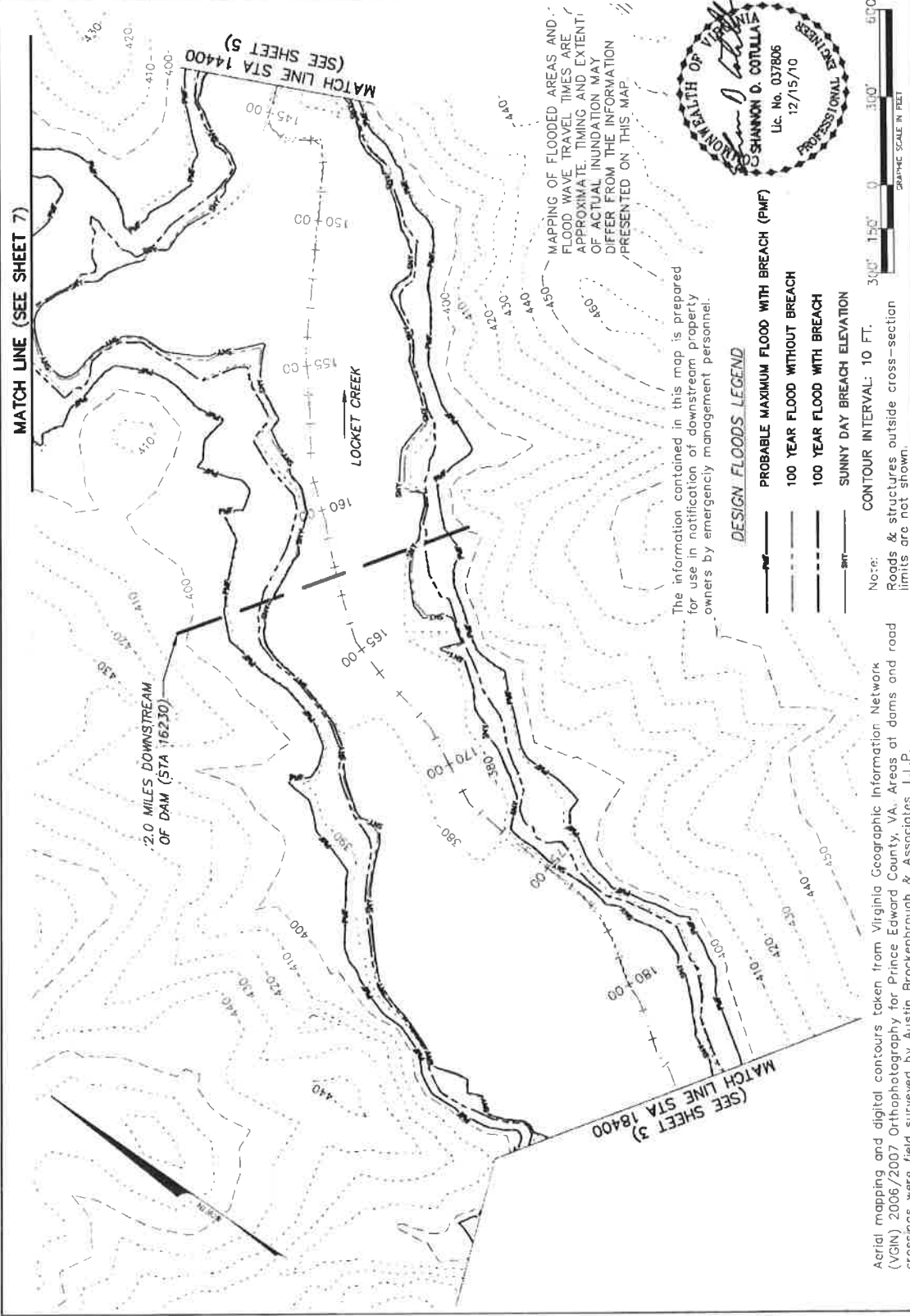


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 LYNCHBURG, VA 24502
 800.242.9506 TOLL FREE
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INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (IDA)
BUFFALO CREEK DAM #2
 PRINCE EDWARD COUNTY, VA

REVISED: 12/15/10
 PROJECT NO. 20090352
 G.L. NO. 26706-B41
 FILE NO. G-12743
 DATE: 09/29/09
 DRAWN BY: NIKHARL
 CHECKED BY: SDC

SHEET NO.
4 OF 7



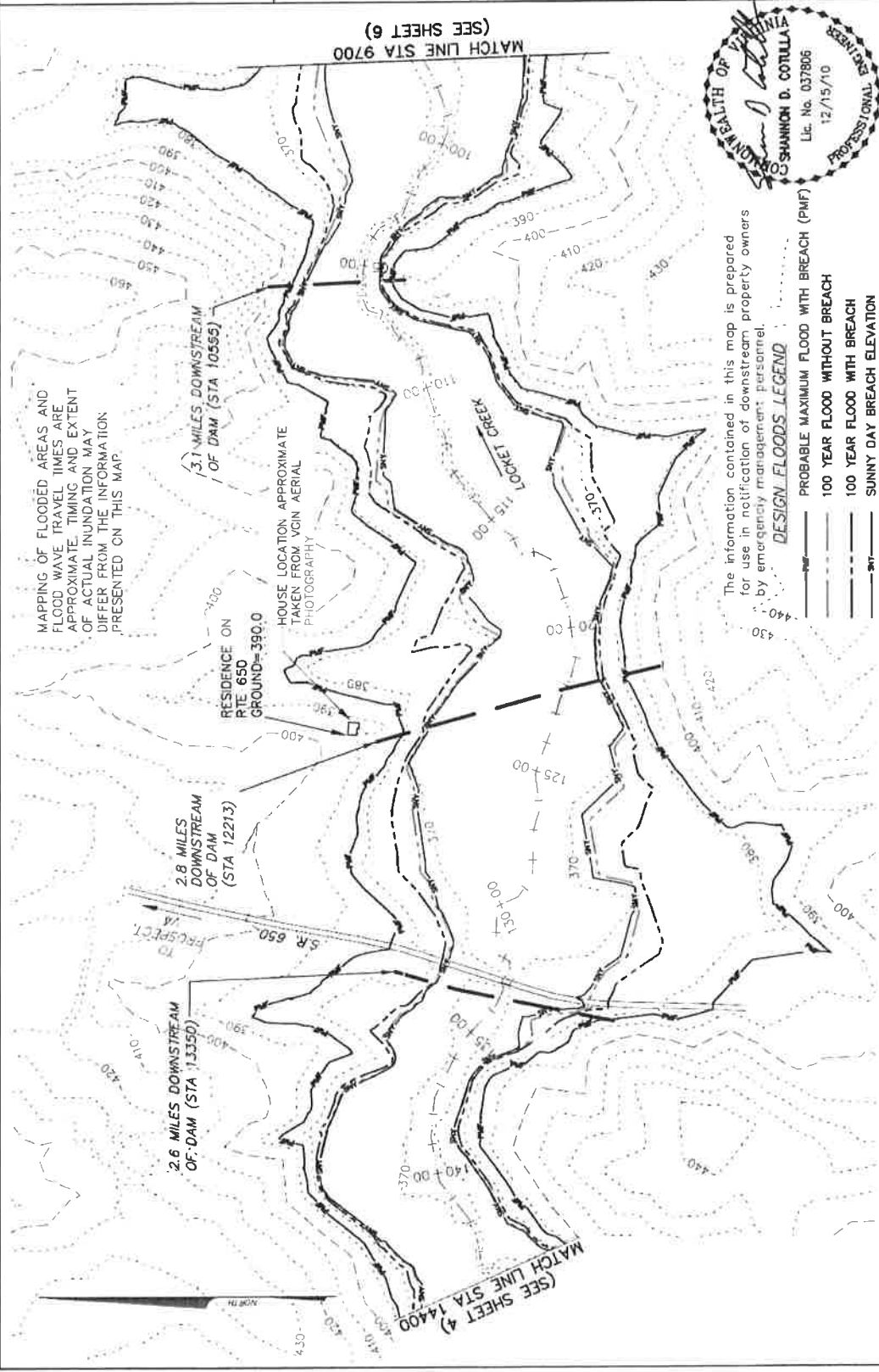


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774 LAUREL ROAD
LYNCHBURG, VA 24501
800.242.6906 TOLL FREE
434.547.7798 MAIN
434.547.0047 FAX

INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (IDA)
BUFFALO CREEK DAM #2
PRINCE EDWARD COUNTY, VA

REVISED: 12/15/10
PROJECT NO. 20060332
C.L. NO. 267-06-B4.1
FILE NO. G-12743
DATE: 09/29/09
DRAWN BY: NHH/ML
CHECKED BY: SOC

SHEET NO.
5 OF 7




SHANNON D. COTULLA
Lic. No. 037806
12/15/10
PROFESSIONAL ENGINEER

The information contained in this map is prepared for use in notification of downstream property owners by emergency management personnel.

- DESIGN FLOODS LEGEND**
- PROBABILE MAXIMUM FLOOD WITH BREACH (PMF)
 - 100 YEAR FLOOD WITHOUT BREACH
 - 100 YEAR FLOOD WITH BREACH
 - SUNNY DAY BREACH ELEVATION

Note: CONTOUR INTERVAL: 10 FT.
Roads & structures outside cross-section limits are not shown.

Aerial mapping and digital contours taken from Virginia Geographic Information Network (VGIN) 2006/2007 Orthophotography for Prince Edward County, VA. Areas at dams and road crossings were field surveyed by Austin Brockenbrough & Associates, L.L.P.

MAPPING OF FLOODED AREAS AND FLOOD WAVE TRAVEL TIMES ARE APPROXIMATE. TIMING AND EXTENT OF ACTUAL INUNDATION MAY DIFFER FROM THE INFORMATION PRESENTED ON THIS MAP.

3.1 MILES DOWNSTREAM OF DAM (STA 10555)

2.8 MILES DOWNSTREAM OF DAM (STA 12213)

2.6 MILES DOWNSTREAM OF DAM (STA 13350)

RESIDENCE ON RTE 650 GROUND=390.0

HOUSE LOCATION APPROXIMATE TAKEN FROM VGIN AERIAL PHOTOGRAPHY

MATCH LINE STA 9700 (SEE SHEET 6)

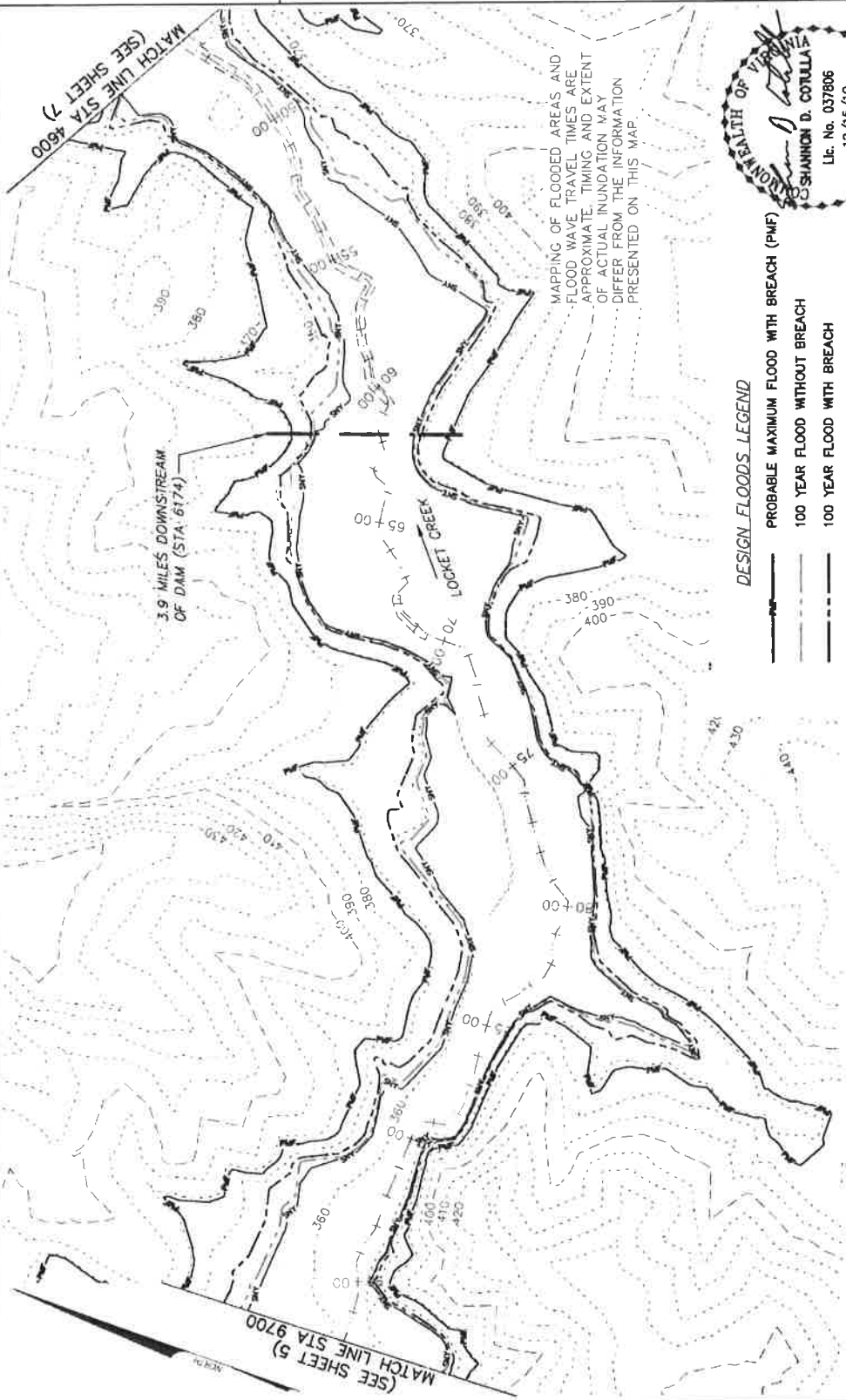
MATCH LINE STA 14400 (SEE SHEET 4)



INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (DA)
BUFFALO CREEK DAM #2
 PRINCE EDWARD COUNTY, VA

REVISED: 12/15/10
 PROJECT NO. 26090352
 C.L. NO. 267-06-84.1
 FILE NO. G-43743
 DATE: 09/29/09
 DRAWN BY: MHW/ML
 CHECKED BY: SOC

SHEET NO.
6 OF 7



- DESIGN FLOODS LEGEND**
- PMF PROBABLE MAXIMUM FLOOD WITH BREACH (PMF)
 - - - 100 YEAR FLOOD WITHOUT BREACH
 - - - 100 YEAR FLOOD WITH BREACH
 - SUNNY DAY BREACH ELEVATION
- CONTOUR INTERVAL: 10 FT.

Note:
 Roads & structures outside cross-section limits are not shown.

300' 150' 0 150' 300' 600'
 GRAPHIC SCALE IN FEET

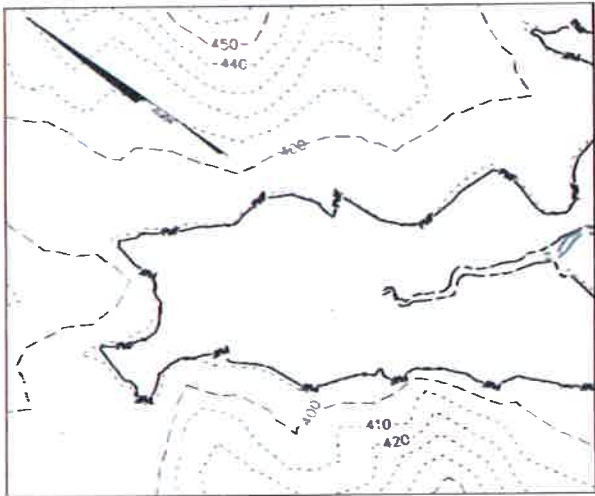
The information contained in this map is prepared for use in notification of downstream property owners by emergency management personnel.

Aerial mapping and digital contours taken from Virginia Geographic Information Network (VGIN) 2006/2007 Orthophotography for Prince Edward County, VA. Areas at dams and road crossings were field surveyed by Austin Brockenbrough & Associates, L.L.P.

INUNDATION ZONE MAP
DAM BREACH FLOOD ELEVATIONS (DA)
BUFFALO CREEK DAM #2
 PRINCE EDWARD COUNTY, VA

REVISED: 12/15/10
 PROJECT NO. 20090392
 S.L. NO. 267-00-041
 FILE NO. 0-12743
 DATE: 09/29/09
 DRAWN BY: NRI/ARW
 CHECKED BY: SDC

SHEET NO.
7 OF 7



MATCH LINE (SEE SHEET 4)

DESIGN FLOODS LEGEND

- PROBABLE MAXIMUM FLOOD WITH BREACH (PMF)
- 100 YEAR FLOOD WITHOUT BREACH
- 100 YEAR FLOOD WITH BREACH
- SUNNY DAY BREACH ELEVATION



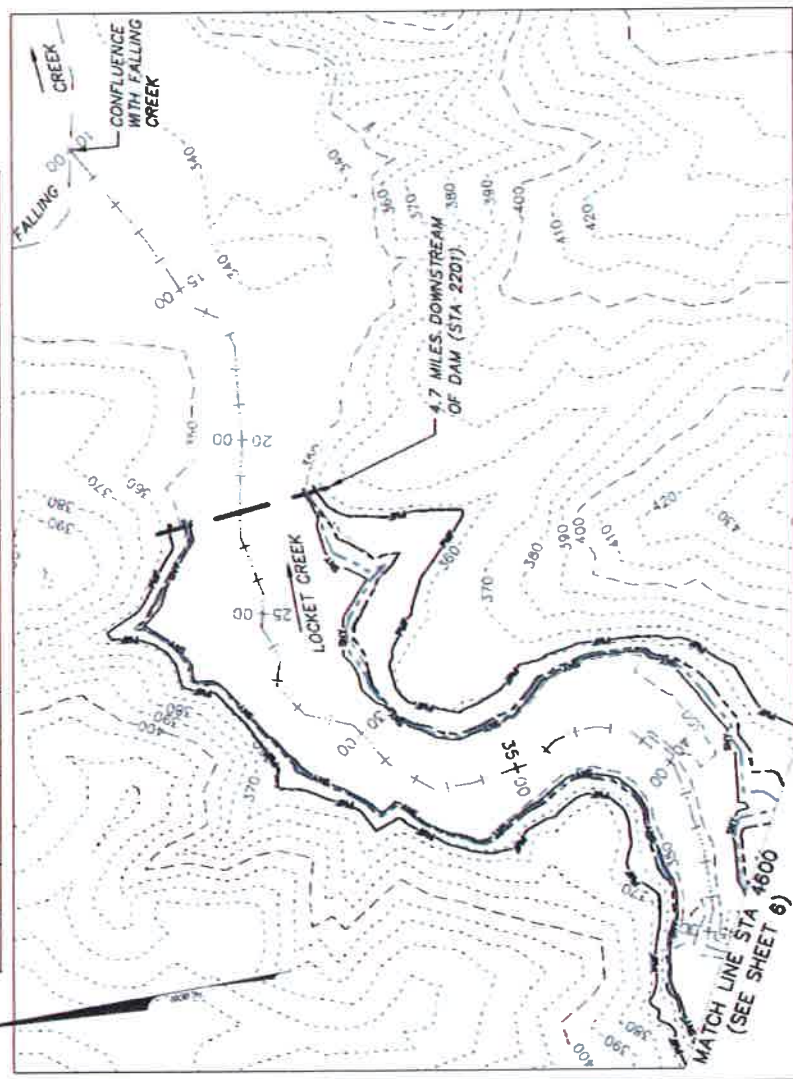
MAPPING OF FLOODED AREAS AND FLOOD WAVE TRAVEL TIMES ARE APPROXIMATE. TIMING AND EXTENT OF ACTUAL INUNDATION MAY DIFFER FROM THE INFORMATION PRESENTED ON THIS MAP.

The information contained in this map is prepared for use in notification of downstream property owners by emergency management personnel.

CONTOUR INTERVAL: 10 FT.



HEC RAS Station	Distance from Dam Miles	Travel Time Flood Minutes	Travel Time - Peak Water Surface Elevation Minutes	Max. Water Surface Elevation Feet	Water Depth at Structure Feet	Structure
27072	0.0	0	0	458.3	4.5	Dam
24437	0.5	7	8	428.9	70.1	Res. On Rte 858
20335	1.3	14	15	404.1		
14230	2.1	25	31	390.7		
13360	2.6	31	45	384.8	13.8	Rte 650
12213	2.8	36	48	382.8	7.2	Res. On Rte 650
10666	3.1	45	51	379.0		
6174	4.0	66	65	368.9		
2201	4.7	89	70	355.0		



4.7 MILES DOWNSTREAM OF DAM (STA 2201)

MATCH LINE STA 1600 (SEE SHEET 6)

1606 ft.

Roads & structures outside cross-section limits are not shown.

Aerial mapping and digital contours taken from Virginia Geographic Information Network (VGIN) 2006/2007 Orthophotography for Prince Edward County, VA. Areas at dams and road crossings were field surveyed by Austin Brockenbrough & Associates, L.L.P.

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ENGINEERING
INCORPORATED

10000 Ditch Drive
 Prince Edward County, Virginia
 23128-1200
 Phone: 800-828-8888
 Fax: 800-828-8889
 Website: www.wetlands.com

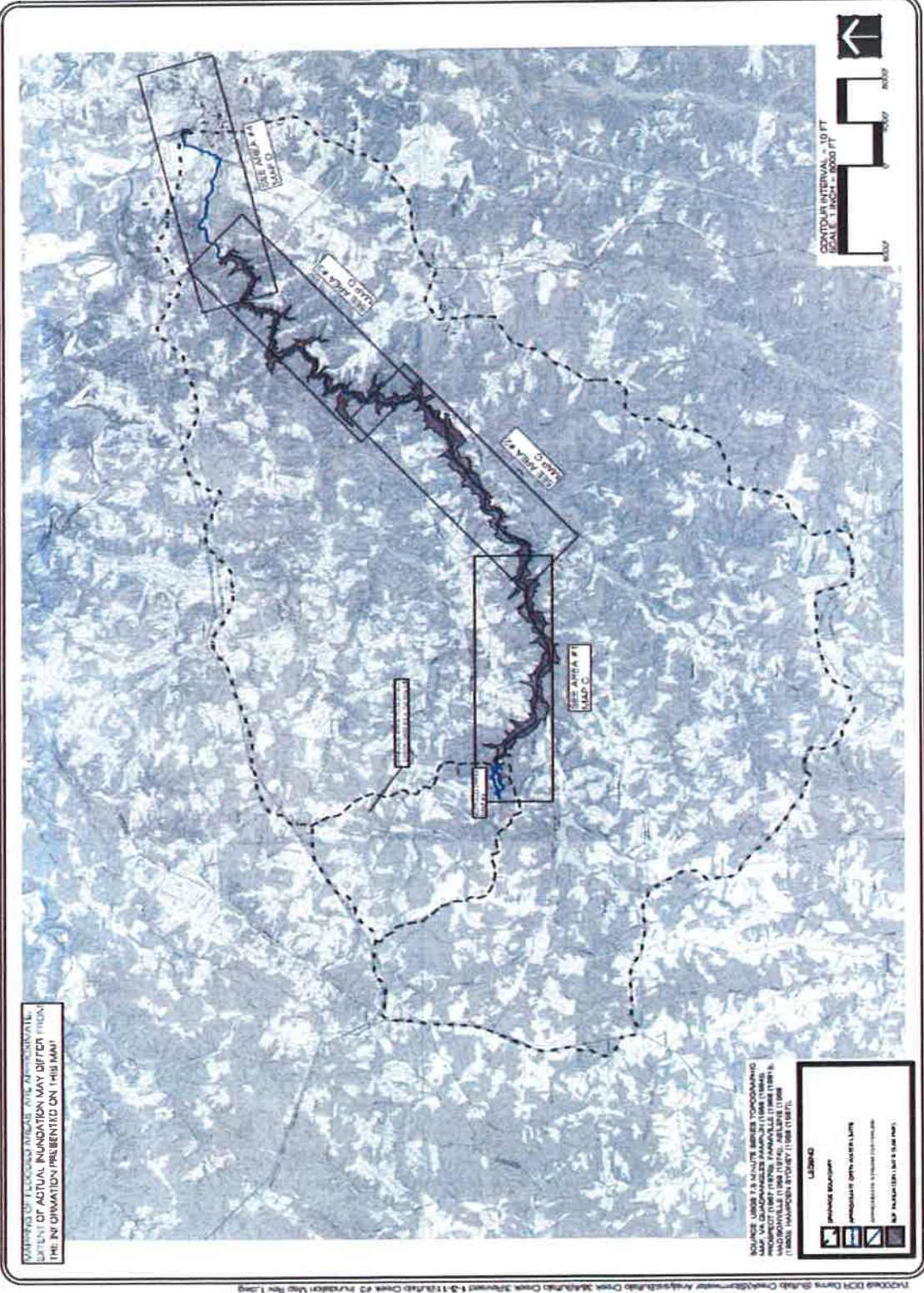
Environmental Consultant

PRINCE EDWARD COUNTY, VIRGINIA
BUFFALO CREEK DAM #3
INUNDATION MAP - OVERALL

PRINCE EDWARD COUNTY

Scale: 1" = 1000'

MAP:



MAPS OF FLOODING AREAS ARE APPROXIMATE.
 EXTENT OF ACTUAL INUNDATION MAY DIFFER FROM
 THE INUNDATION PRESENTED ON THIS MAP.

SOURCE: USGS 7.5-MINUTE SERIES TOPOGRAPHIC
 MAPS (2001) FOR PORTS, FARMVILLE (1981) &
 LANDBOVILLE (1981) (SP-4); JARVIS (1988)
 (SP-4); HANCOCK (1981) (SP-4).

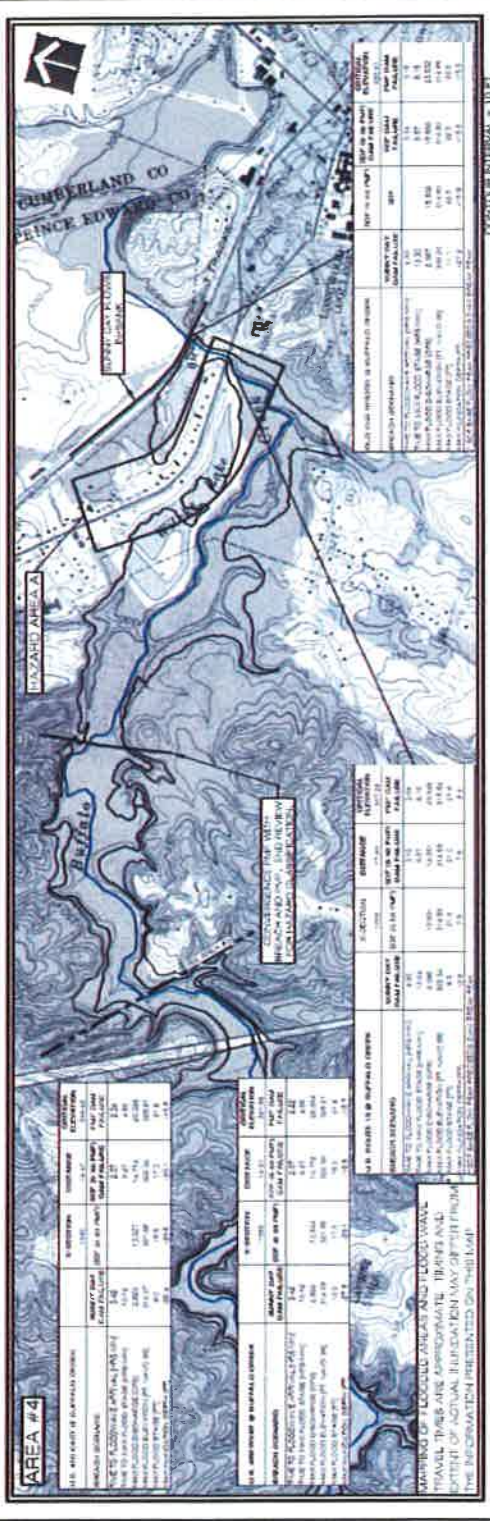
LEGEND

- PROJECT BOUNDARY
- PROPOSED DITCH WATER LAYS
- DIP INUNDATION (SEE AREA MAP)

VIRGINIA DEPARTMENT OF TRANSPORTATION
 PRINCE EDWARD COUNTY PLANNING COMMISSION
 1000 EAST MAIN STREET, SUITE 200
 PRINCE EDWARD COUNTY, VIRGINIA 23867
 TEL: (804) 799-1234 FAX: (804) 799-1235
 WWW.VDOT.VA.GOV WWW.PECCOMMISSION.COM

INUNDATION MAP - LOWER BUFFALO CREEK DAM #3 PRINCE EDWARD COUNTY, VIRGINIA

COMMONWEALTH OF VIRGINIA
 PRINCE EDWARD COUNTY
 MAP D
 SCALE: 1 INCH = 200 FT



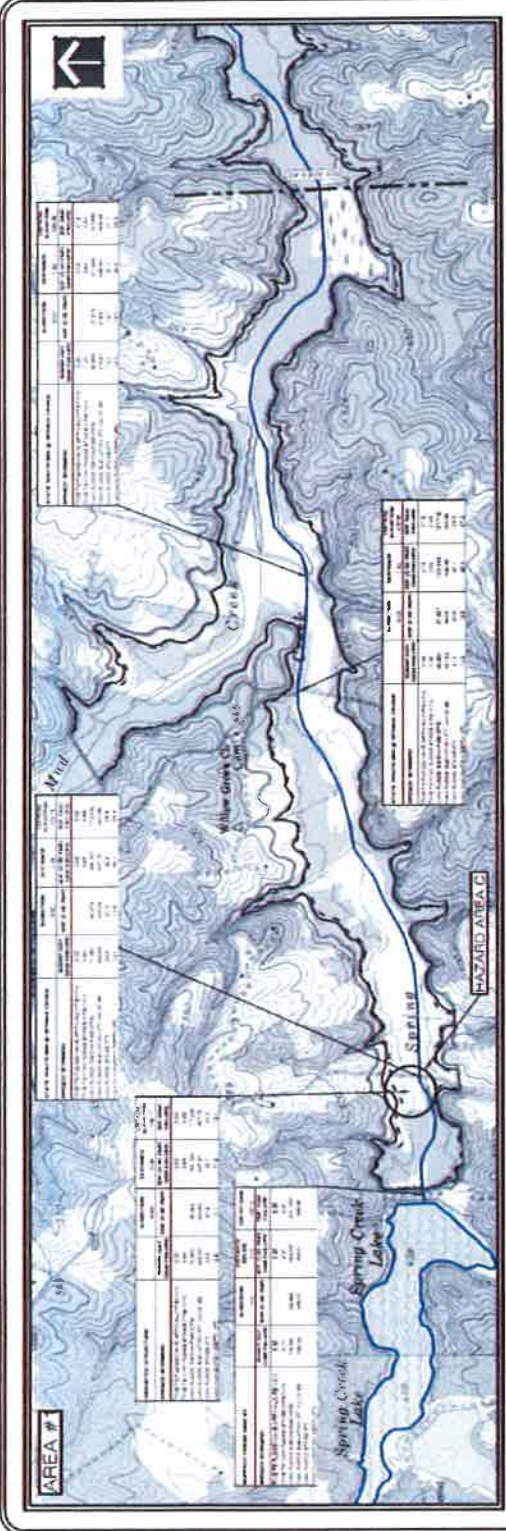
VERTICAL SCALE: 1 INCH = 200 FT
 HORIZONTAL SCALE: 1 INCH = 200 FT
 NORTH ARROW
 LEGEND
 DAM #3
 BUFFALO CREEK
 ROAD
 PROPERTY LINE
 UNDEVELOPED LAND
 DEVELOPED LAND
 WATER

THIS MAP IS A PRELIMINARY DESIGN AND SHOULD NOT BE USED FOR CONSTRUCTION OR AS A BASIS FOR LIABILITY. THE INFORMATION PRESENTED ON THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY.


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 Environmental Engineering
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 Fax: 703-261-1101
 www.wfleng.com

**INUNDATION MAP - UPPER
 BUFFALO CREEK DAM #4
 PRINCE EDWARD COUNTY, VIRGINIA**

PRINCE EDWARD COUNTY
 PLANNING DEPARTMENT
 10000 Old Dominion Road, Suite 100
 Fairfax, VA 22030
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 Fax: 703-261-1101
 www.pecountyva.gov



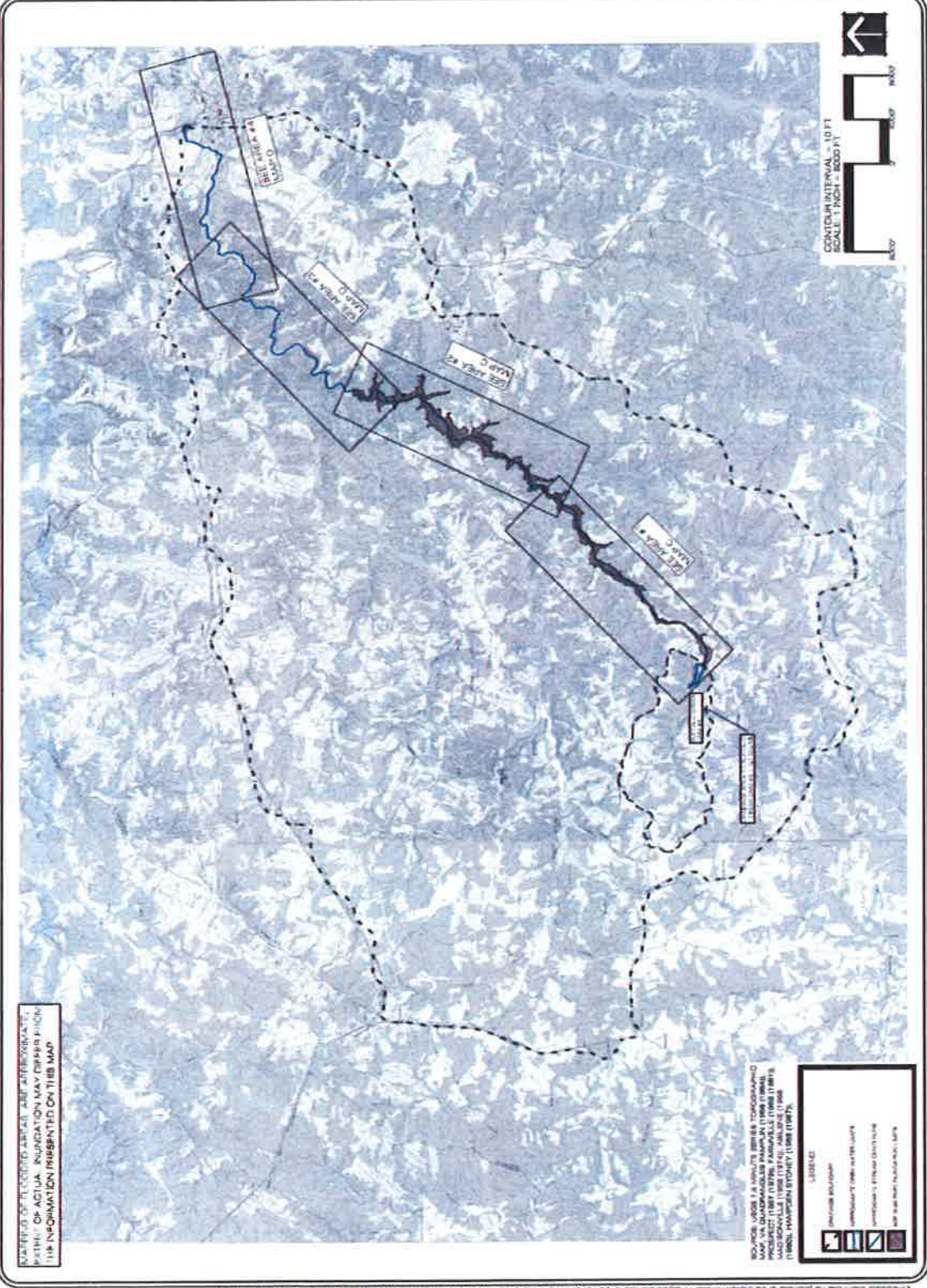
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 Fax: (703) 261-1101
 www.watkinseng.com



INUNDATION MAP - OVERALL
BUFFALO CREEK DAM #8
PRINCE EDWARD COUNTY, VIRGINIA



MAP 8
 Prepared by
 Date
 Scale
 Contour Interval



NUMBERS OF FEET INTO AREA, AND APPROXIMATE PERCENT OF ACTUAL INUNDATION MAY DIFFER FROM THE INFORMATION PRESENTED ON THIS MAP.

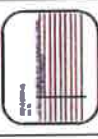
THIS MAP WAS PREPARED BY WATKINS ENGINEERING & SURVEYING, INCORPORATED, 10000 OLD DOMINION DRIVE, SUITE 200, FAIRFAX, VIRGINIA 22033. THE INFORMATION ON THIS MAP IS BASED ON DATA PROVIDED BY THE PRINCE EDWARD COUNTY ENGINEERING DEPARTMENT, 11000 HANCOCK STREET, 22081 (1987).

LEGEND

- Inundation Area
- Proposed Dam
- Existing Dam
- Proposed Dam
- Existing Dam
- Proposed Dam
- Existing Dam

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 1000 West 10th Street, Suite 100
 Norfolk, Virginia 23502
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 Fax: 757-637-1101
 www.williamseng.com

**INUNDATION MAP - LOWER
 BUFFALO CREEK DAM #5
 PRINCE EDWARD COUNTY, VIRGINIA**



DATE: 10/15/11
 DRAWN BY: J. B. BROWN
 CHECKED BY: J. B. BROWN
 MAP NO: 100001
 SHEET NO: 1



DOWNSTREAM CHANNELS = 10 FT
 SCALE: 1" = 1000 FT

LEGEND:

- 100 Year Flood
- 50 Year Flood
- 25 Year Flood
- 10 Year Flood
- 5 Year Flood
- 2 Year Flood
- 1 Year Flood
- 0.5 Year Flood
- 0.2 Year Flood
- 0.1 Year Flood

Professional Credentials

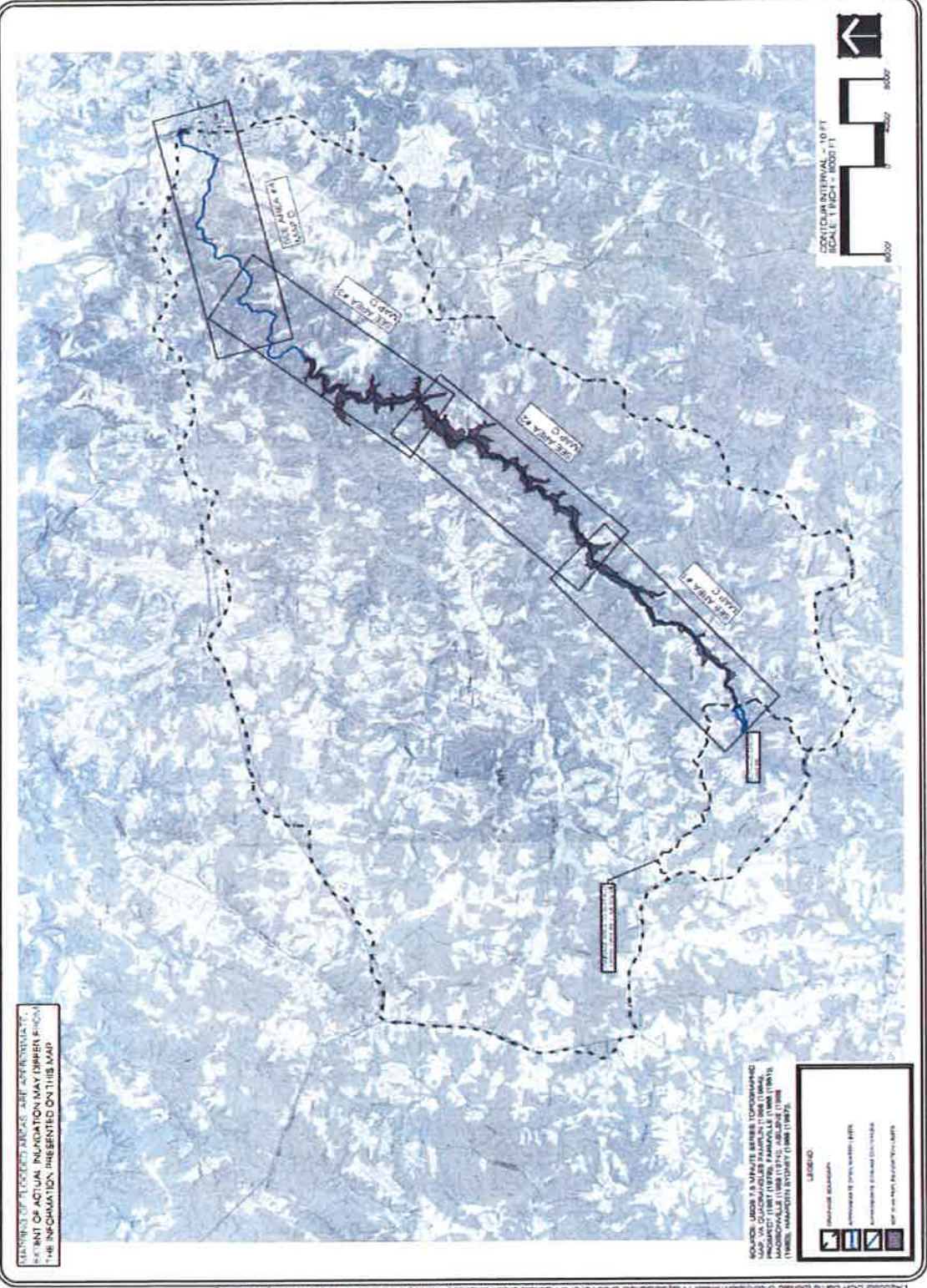
WEG
WILLIAMSON ENGINEERING GROUP, INC.
1000 West 10th Street
Lawrence, Kansas 66044
Phone: 785.843.1234
Fax: 785.843.1235
www.williamsoneng.com

**PRINCE EDWARD COUNTY, VIRGINIA
BUFFALO CREEK DAM #8
INUNDATION MAP - OVERALL**

STATE OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT: BUFFALO CREEK DAM #8 INUNDATION MAP - OVERALL
DATE: 11/15/11

MAP: B



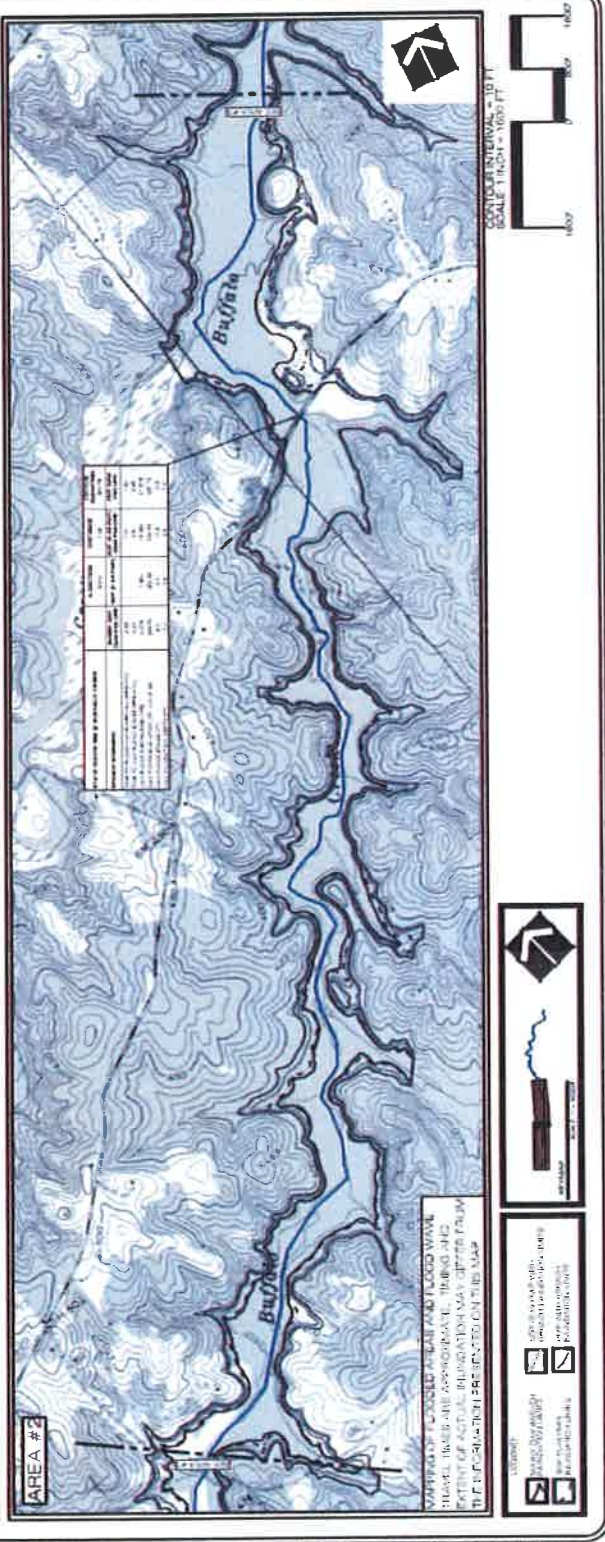
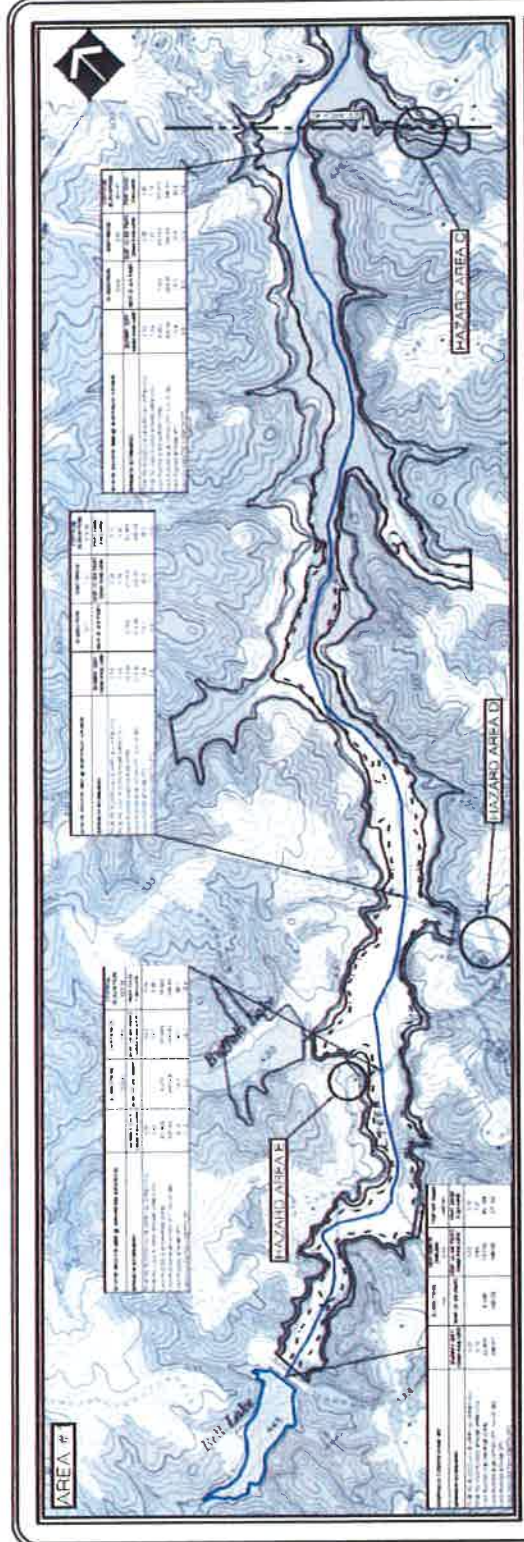
BOUNDARIES OF FLOODED AREAS ARE APPROXIMATE. EXTENT OF ACTUAL INUNDATION MAY DIFFER FROM THE INFORMATION PRESENTED ON THIS MAP.

SOURCE: USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP, VA. COORDINATE SYSTEM: NAD 83 UTM ZONE 18N. PROJECTIONS: UTM (EAST), PARAMETER: TRANSVERSE MERCATOR, STANDARD PARALLEL: 36° 56' 00" N, FALSE EASTING: 500000 M, FALSE NORTING: 0 M, DATUM: NAD 83, EPOCH: 1982.0.

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**INUNDATION MAP - UPPER
 BUFFALO CREEK DAM #6
 PRINCE EDWARD COUNTY, VIRGINIA**

SCALE: 1" = 100' FT



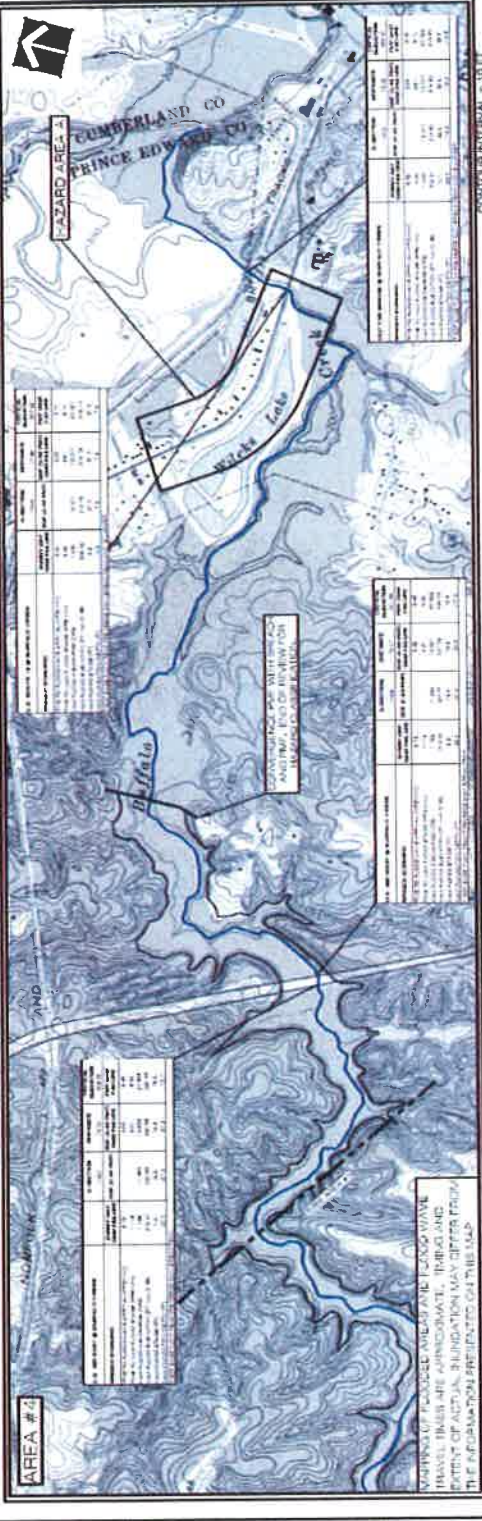
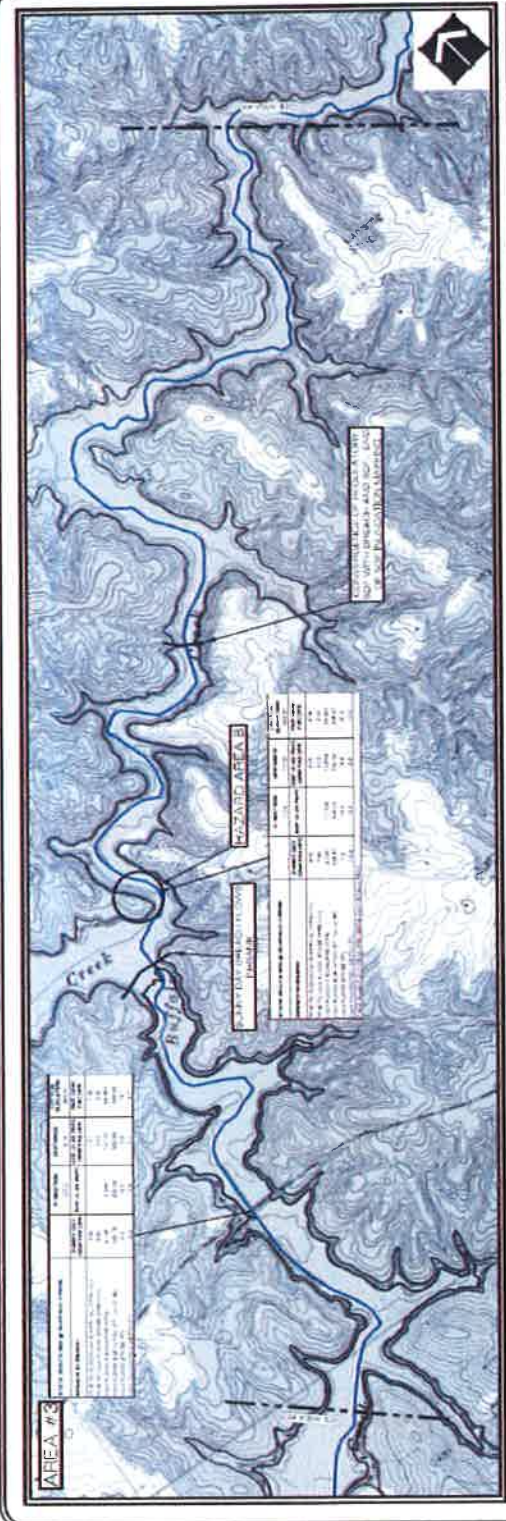
14-2025 DDM Drawn (Title) Chesapeake Bay, Inc. & Associates, Inc. 14-2025 DDM Drawn (Title) Chesapeake Bay, Inc. & Associates, Inc. 14-2025 DDM Drawn (Title) Chesapeake Bay, Inc. & Associates, Inc.


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 1000 West 10th Street, Suite 100
 Norfolk, Virginia 23510
 Phone: 757-637-1111
 Fax: 757-637-1112
 Email: info@wfgeng.com

PRINCE EDWARD COUNTY, VIRGINIA
BUFFALO CREEK DAM #6
INUNDATION MAP - LOWER




DATE: 10/1/2014
 DRAWN BY: J. HARRIS
 CHECKED BY: J. HARRIS
 MAP # D



142098 FOR DRAFT (R) Buffalo Creek Dam #6 Inundation Map (Lower) - 10/1/2014
 142098 FOR DRAFT (R) Buffalo Creek Dam #6 Inundation Map (Lower) - 10/1/2014

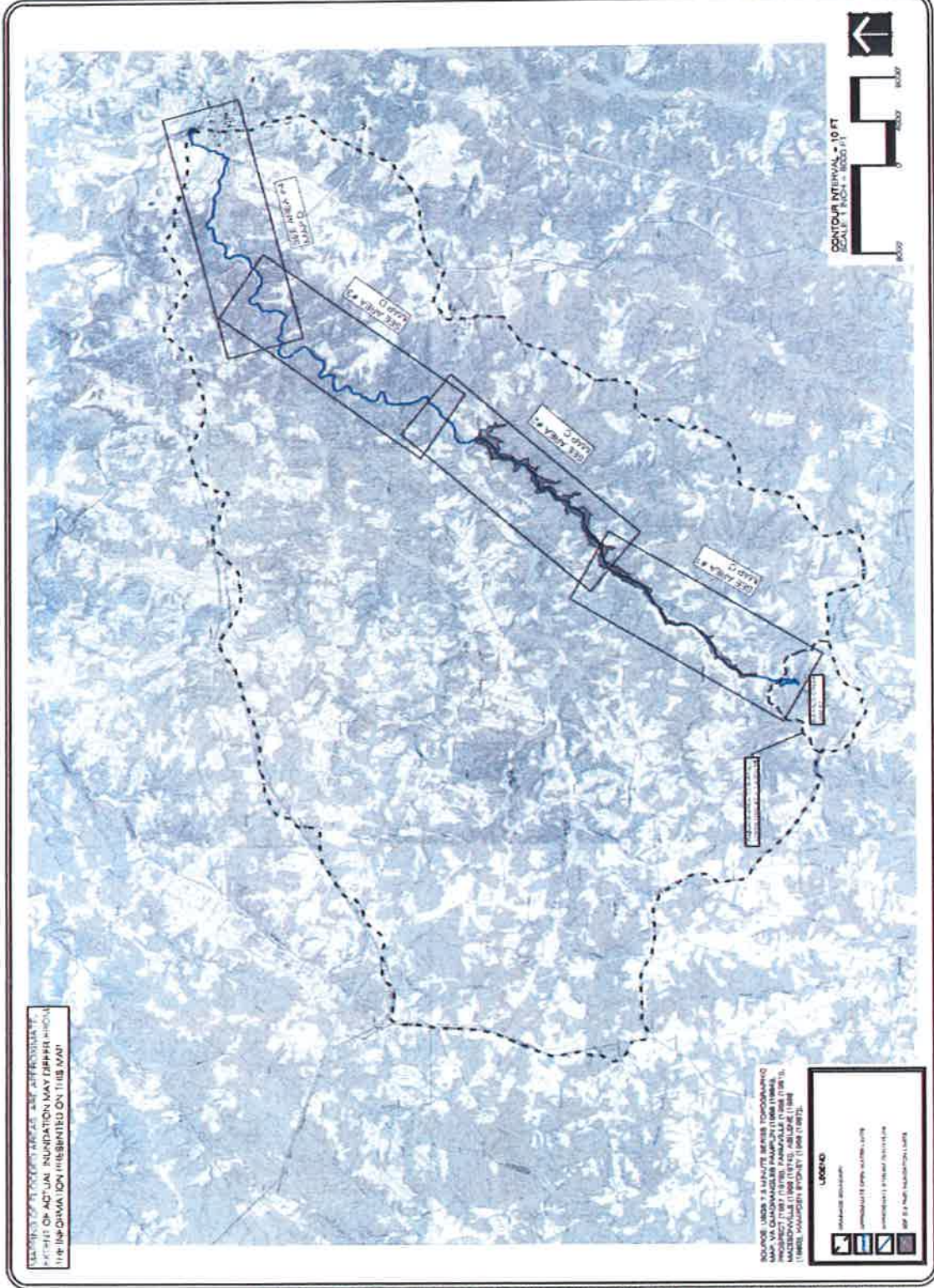
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 Charlottesville, Virginia 22902
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INUNDATION MAP - OVERALL
BUFFALO CREEK DAM #7
PRINCE EDWARD COUNTY, VIRGINIA



MAP B
 SHEET 1 OF 2
 DATE: 08/11/2010






THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. THE INFORMATION IS NOT GUARANTEED. THE INFORMATION IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN THAT FOR WHICH IT WAS PROVIDED. THE USER ASSUMES ALL LIABILITY FOR ANY DAMAGE OR LOSS OF PROPERTY OR PERSONAL INJURY RESULTING FROM THE USE OF THIS MAP.

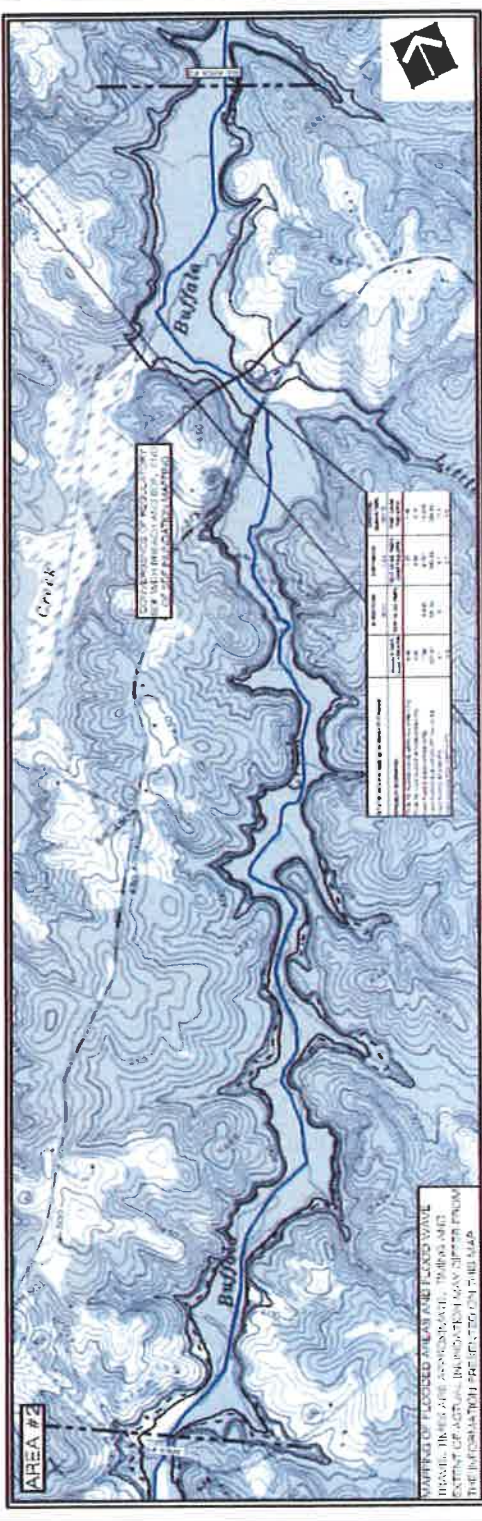
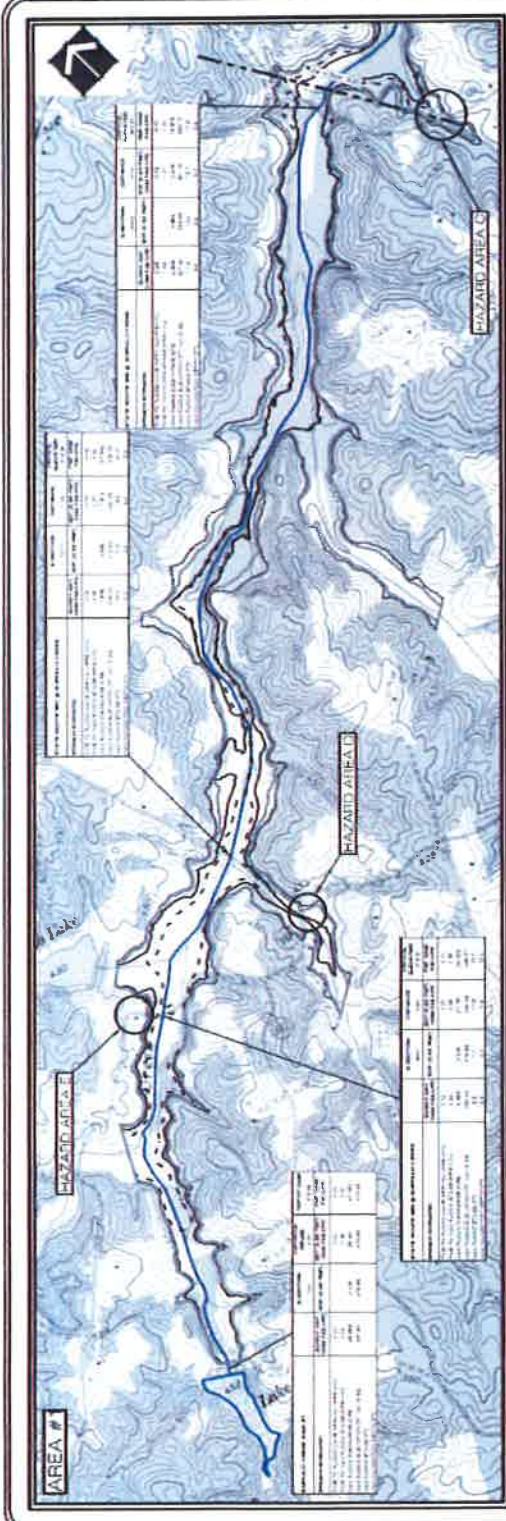
LEGEND

- Reservoir
- Inundation Area
- Contour Lines
- Topographic Features
- Water Features
- Other Features


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 Fairfax, Virginia 22031
 (703) 261-1111
 www.williamson-engineering.com

INUNDATION MAP - UPPER
BUFFALO CREEK DAM #7
PRINCE EDWARD COUNTY, VIRGINIA














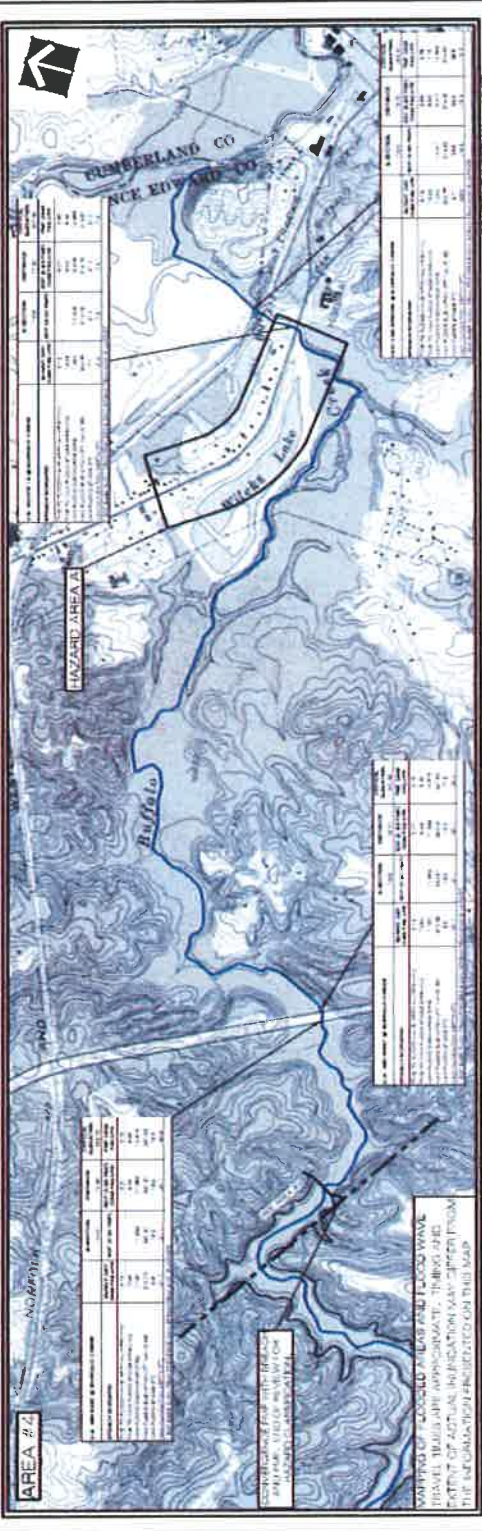
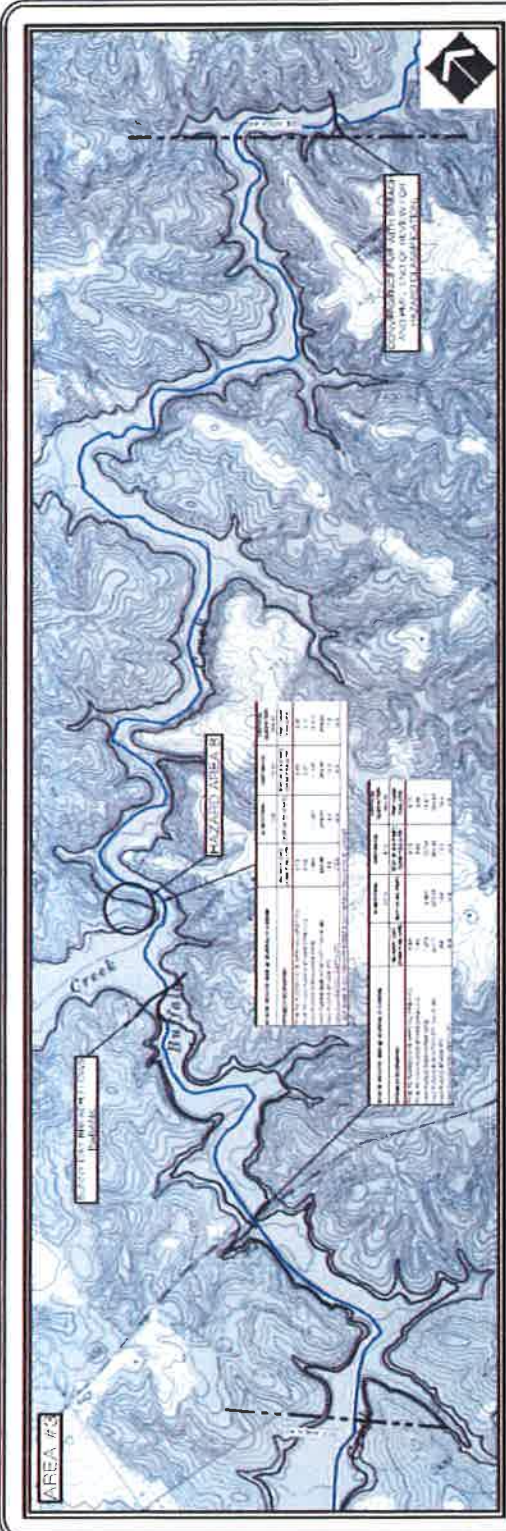
WILLIAMSON ENGINEERING
 1101 Old Dominion Blvd., Suite 200
 Fairfax, Virginia 22031
 Phone: (703) 261-1100
 Fax: (703) 261-1101
 www.williamsoneng.com



**INUNDATION MAP - LOWER
 BUFFALO CREEK DAM #7
 PRINCE EDWARD COUNTY, VIRGINIA**

DATE: 11/15/2011
 DRAWN BY: J. HARRIS
 CHECKED BY: J. HARRIS
 PROJECT NO: 11-0001



LEGEND

- PROPOSED INUNDATION ZONE
- EXISTING INUNDATION ZONE
- PROPOSED HAZARD AREA A
- EXISTING HAZARD AREA A

NOTES

1. THIS MAP IS A PART OF THE LOWER BUFFALO CREEK DAM #7 PROJECT. THE COMPLETE PROJECT IS SHOWN ON THE MAPS OF THE PROJECT.

2. THE INUNDATION ZONE IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

3. THE HAZARD AREA A IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

4. THE VELOCITY IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

5. THE DEPTH IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

6. THE FLOW IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

7. THE VELOCITY IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

8. THE DEPTH IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

9. THE FLOW IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

10. THE VELOCITY IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

11. THE DEPTH IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

12. THE FLOW IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

13. THE VELOCITY IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

14. THE DEPTH IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

15. THE FLOW IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

16. THE VELOCITY IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

17. THE DEPTH IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

18. THE FLOW IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

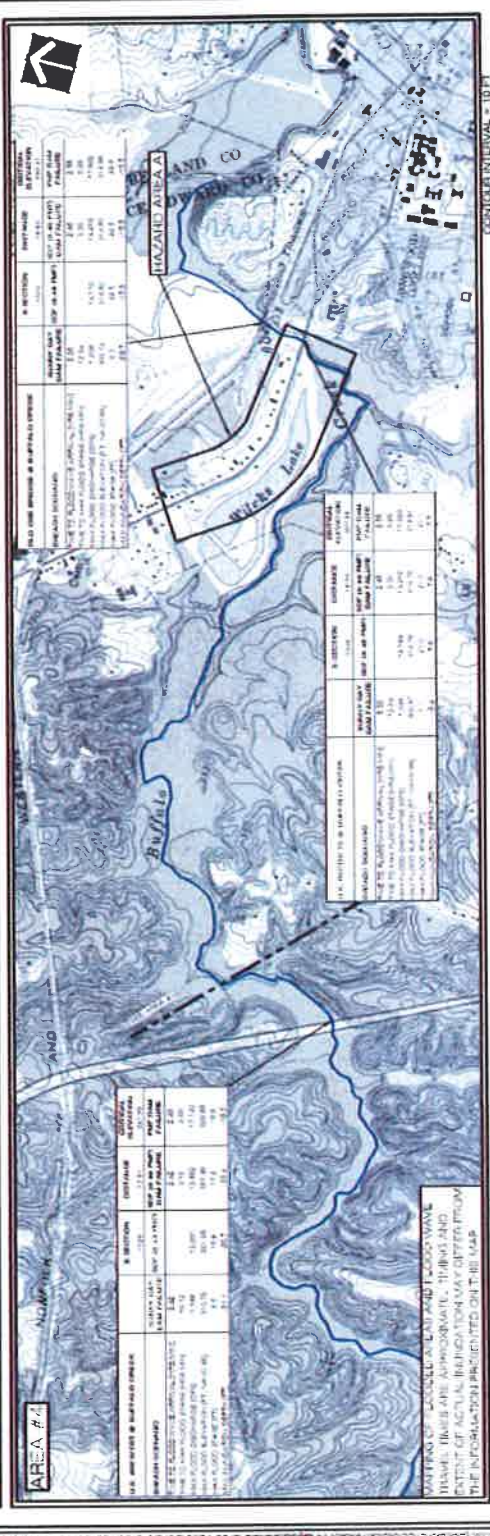
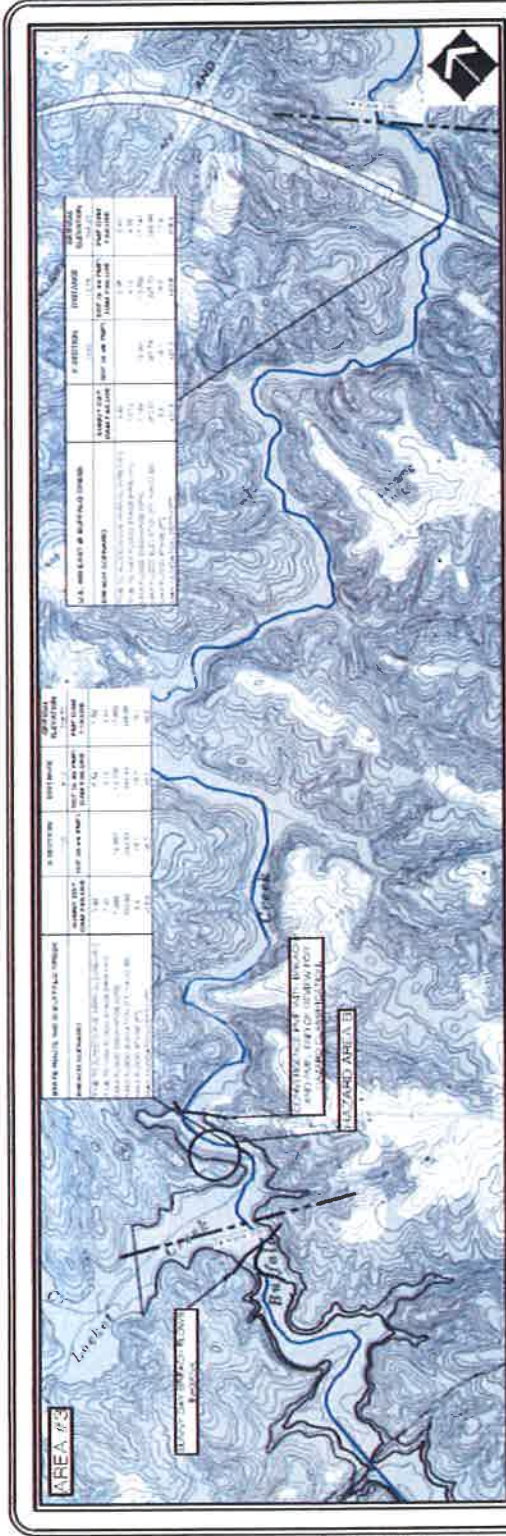
19. THE VELOCITY IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

20. THE DEPTH IS BASED ON THE DESIGN FLOOD OF 100 YEAR RETURN PERIOD.

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 Fairfax, Virginia 22030
 703-261-8888
 www.wandaenv.com

**INUNDATION MAP - LOWER
 BUFFALO CREEK DAM #8
 PRINCE EDWARD COUNTY, VIRGINIA**

MAP
 1:5000
 1" = 1000'



CONTOUR INTERVAL = 10 FT
 SCALE 1" = 1000 FT

LEGEND

- INUNDATION AREA
- DAM
- ROAD
- STREAM
- CONTOUR LINE
- PROPERTY BOUNDARY
- ELEVATION SPOT

NOTES: 1. THIS MAP IS A GENERALIZATION OF THE DATA PROVIDED AND SHOULD NOT BE USED FOR DESIGN OR CONSTRUCTION PURPOSES. 2. THE INFORMATION PRESENTED ON THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY.

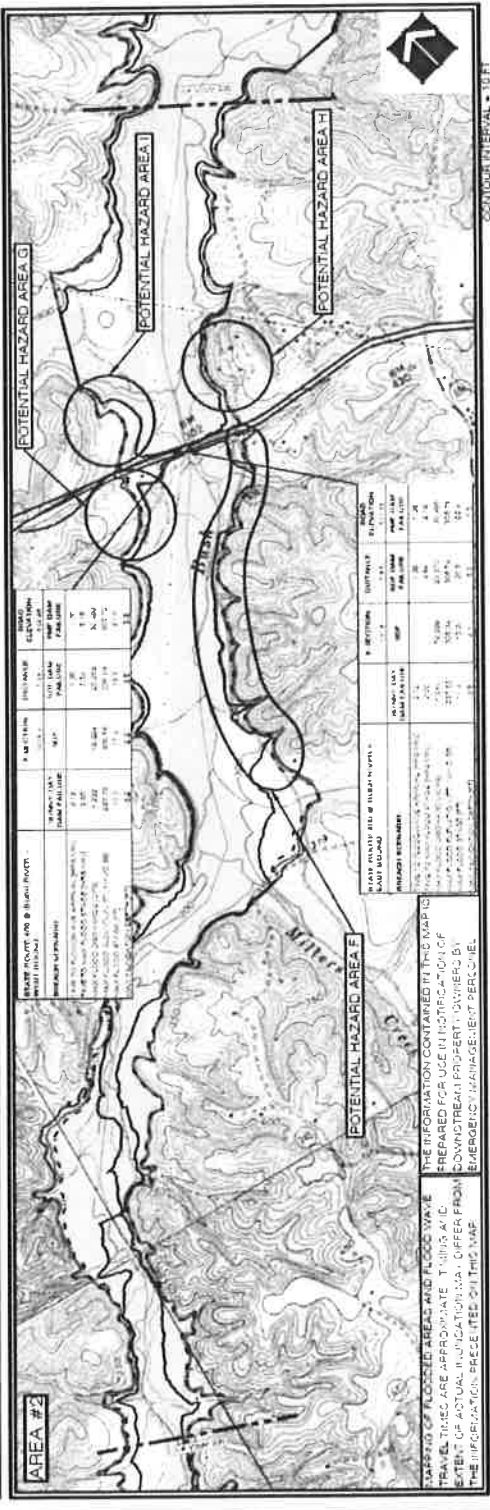
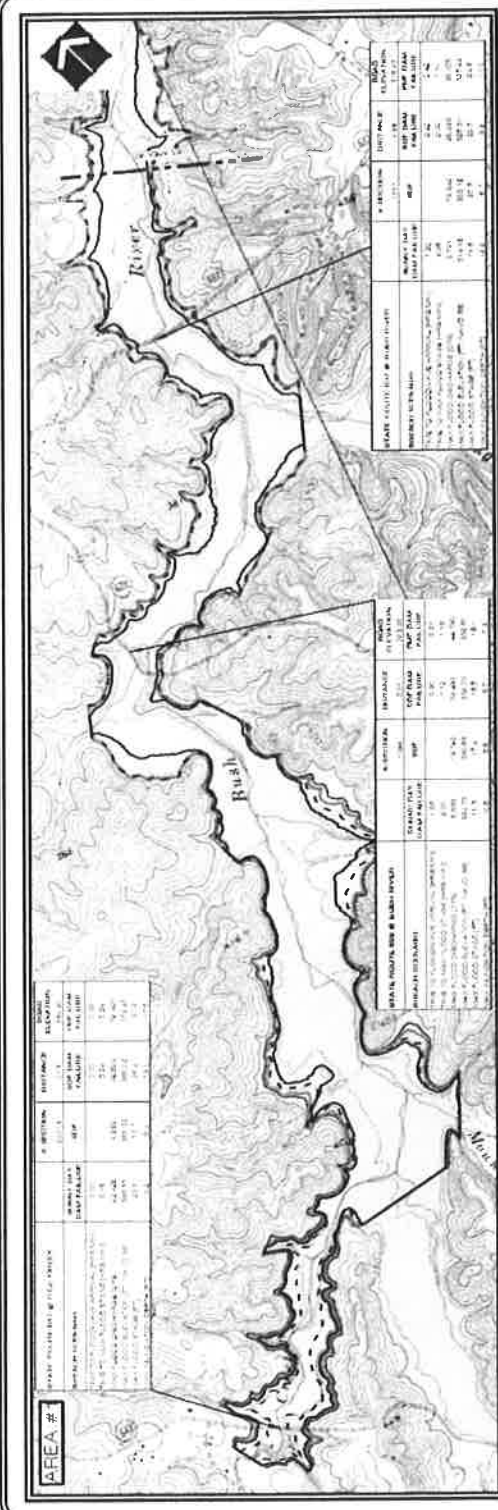
WILLIAMS JR. ENVIRONMENTAL GROUP, INC.
 10000 WOODBRIDGE DRIVE
 SUITE 100
 FALLS CHURCH, VA 22044
 (703) 271-1100
 www.williamsjr.com

PRINCE EDWARD COUNTY, VIRGINIA
BUSH RIVER DAM #2
INUNDATION MAP - #1

PRINCE EDWARD COUNTY
 VIRGINIA
 1998

LEGEND

- INUNDATION ZONE
- CONTOUR INTERVAL = 10 FT
- SCALE 1 INCH = 1000 FT



AREA #1

AREA #2

POTENTIAL HAZARD AREA G

POTENTIAL HAZARD AREA H

POTENTIAL HAZARD AREA F

LEGEND

- INUNDATION ZONE
- CONTOUR INTERVAL = 10 FT
- SCALE 1 INCH = 1000 FT

NOTES:

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