

**MD 4 – THOMAS JOHNSON BRIDGE PROJECT PLANNING STUDY
MAPS PRESENTED AT LOCATION/DESIGN PUBLIC HEARING**

SEPTEMBER 2010

PATUXENT RIVER CROSSING MAPS:

- **2-Lane Parallel Span**
- **4-Lane Span Bridge Replacement**

MD 4/MD INTERSECTION OPTIONS

- **Option A – Continuous Flow Intersection**
- **Option B – At-Grade Intersection with One-Directional Fly-over**
- **Option D – Single -Point Urban Interchange**

MD 4 MAINLINE IMPROVEMENTS-

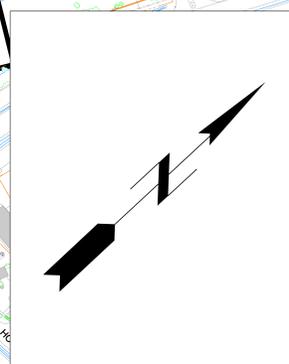
- **MD 4 Mainline St. Mary's County**
- **MD 4 Mainline Calvert County**

MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY PATUXENT RIVER CROSSING ALTERNATIVES PARALLEL 2-LANE BRIDGE

DRAFT
WORK IN PROGRESS
DESIGN SUBJECT TO CHANGE

**OPTION A: 70' VERTICAL CLEARANCE
OVER MAIN NAVIGATION CHANNEL**

**OPTION B: 140' VERTICAL CLEARANCE
OVER MAIN NAVIGATION CHANNEL**



LEGEND			
	Proposed Roadway		2009 Delineated Waters of the U.S.
	Proposed Median		Streams (GIS Location)
	Proposed Bicycle/Pedestrian Trail		Parkland Boundary
	Removal of Existing Pavement		100 Year Floodplain
	Proposed Limit of Disturbance		2009 Delineated Wetlands
	Proposed Traffic Flow Arrows		Federal Land Boundary
	Potential Displacement		Chesapeake Bay Critical Area
	Three Notch Trail (to be built by others)		Existing SWM Pond
	Proposed Retaining Wall		Bridge Structure
	Existing Right-of-Way		Proposed SWM/Environmental Site Design
		SWM / ESD	

MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY PATUXENT RIVER CROSSING ALTERNATIVES PARALLEL 2-LANE BRIDGE

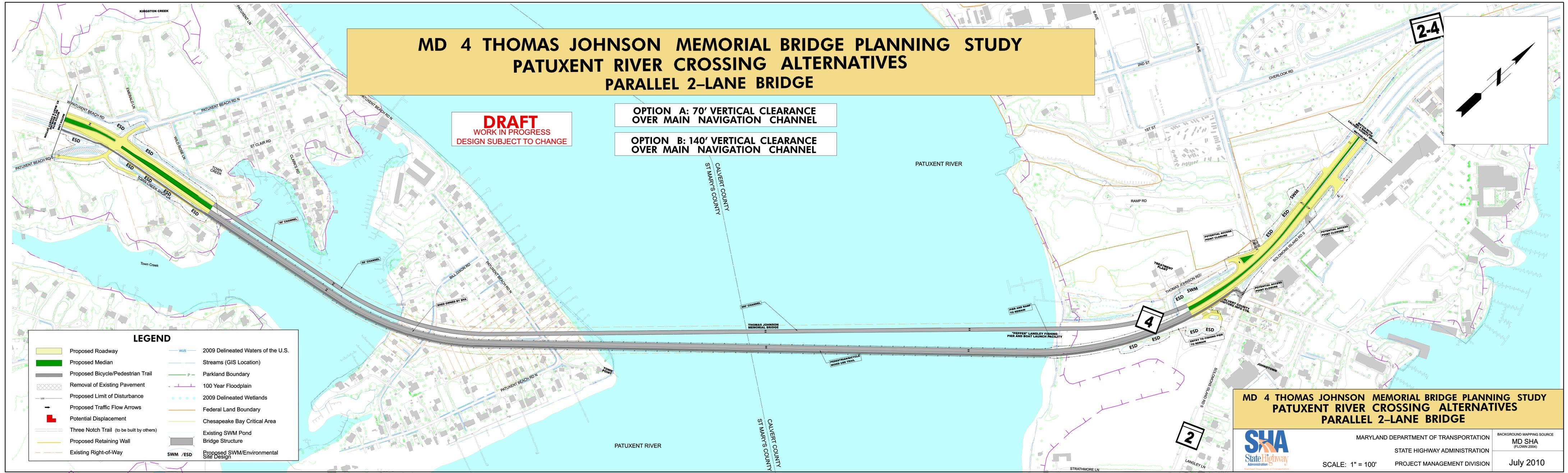
SHA
State Highway Administration
Maryland Department of Transportation

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
PROJECT MANAGEMENT DIVISION

BACKGROUND MAPPING SOURCE
MD SHA (FLOWN 2004)

SCALE: 1" = 100'

July 2010

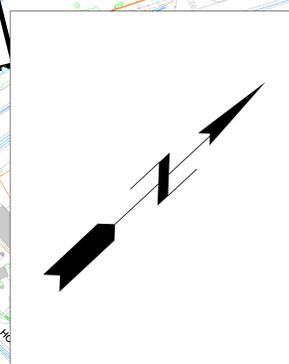


MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY PATUXENT RIVER CROSSING ALTERNATIVES 4-LANE BRIDGE REPLACEMENT

DRAFT
WORK IN PROGRESS
DESIGN SUBJECT TO CHANGE

**OPTION A: 70' VERTICAL CLEARANCE
OVER MAIN NAVIGATION CHANNEL**

**OPTION B: 140' VERTICAL CLEARANCE
OVER MAIN NAVIGATION CHANNEL**

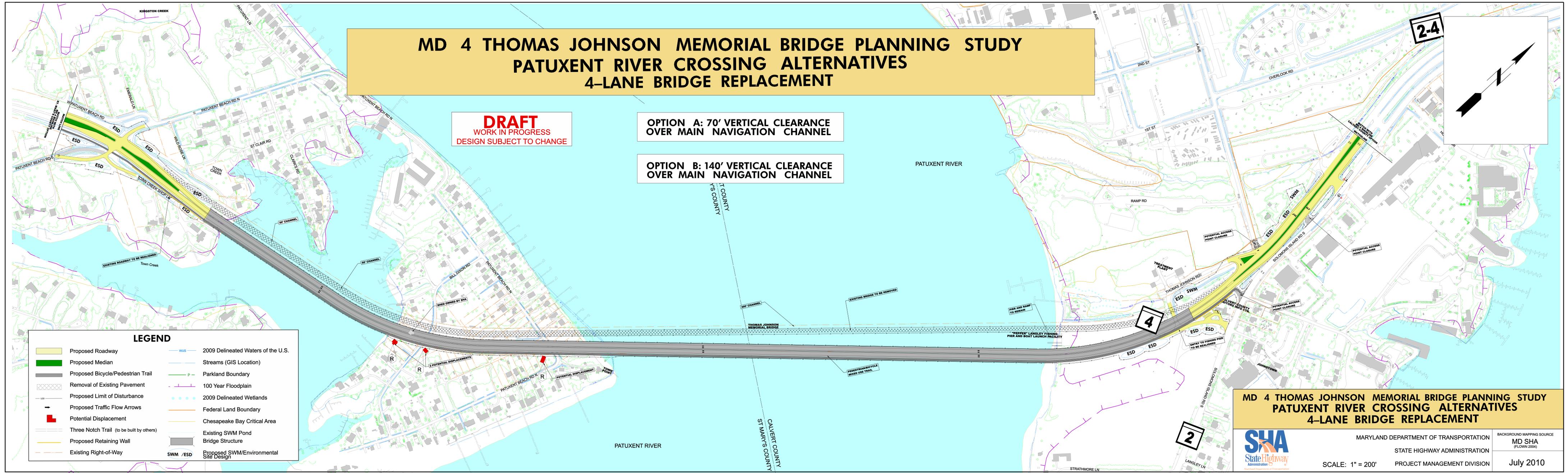


LEGEND	
	Proposed Roadway
	Proposed Median
	Proposed Bicycle/Pedestrian Trail
	Removal of Existing Pavement
	Proposed Limit of Disturbance
	Proposed Traffic Flow Arrows
	Potential Displacement
	Three Notch Trail (to be built by others)
	Proposed Retaining Wall
	Existing Right-of-Way
	2009 Delineated Waters of the U.S.
	Streams (GIS Location)
	Parkland Boundary
	100 Year Floodplain
	2009 Delineated Wetlands
	Federal Land Boundary
	Chesapeake Bay Critical Area
	Existing SWM Pond
	Bridge Structure
	Proposed SWM/Environmental Site Design

MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY PATUXENT RIVER CROSSING ALTERNATIVES 4-LANE BRIDGE REPLACEMENT

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
PROJECT MANAGEMENT DIVISION
BACKGROUND MAPPING SOURCE
MD SHA (FLOWN 2004)
July 2010

SCALE: 1" = 200'

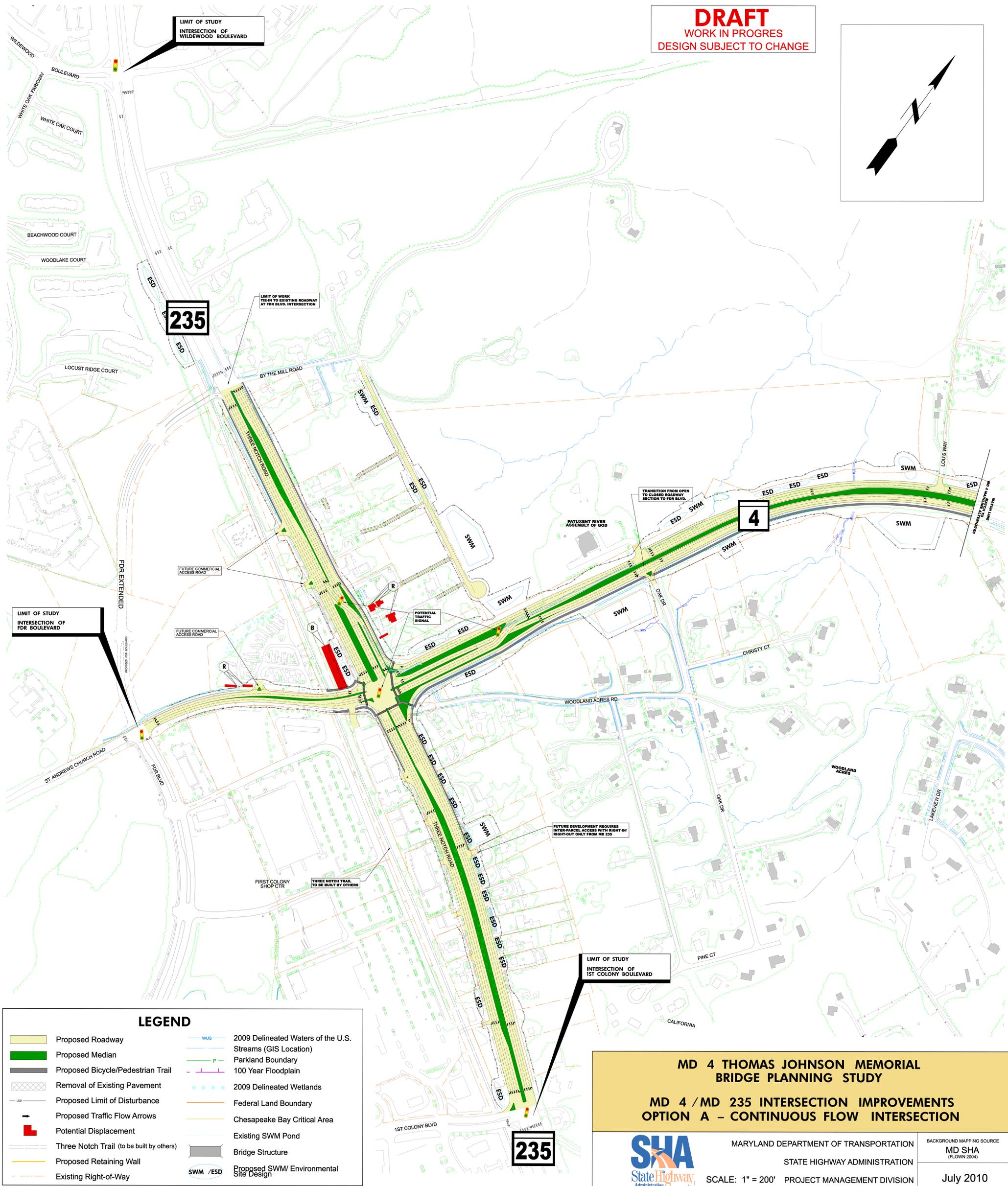
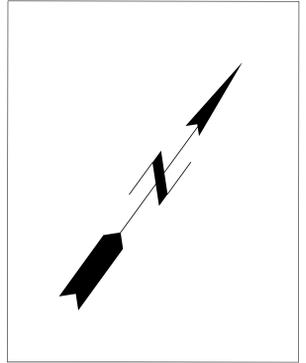


MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY

MD 4 / MD 235 INTERSECTION IMPROVEMENTS

OPTION A – CONTINUOUS FLOW INTERSECTION

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 WORK IN PROGRESS
 DESIGN SUBJECT TO CHANGE



LEGEND	
	Proposed Roadway
	Proposed Median
	Proposed Bicycle/Pedestrian Trail
	Removal of Existing Pavement
	Proposed Limit of Disturbance
	Proposed Traffic Flow Arrows
	Potential Displacement
	Three Notch Trail (to be built by others)
	Proposed Retaining Wall
	Existing Right-of-Way
	2009 Delineated Waters of the U.S. Streams (GIS Location)
	Parkland Boundary
	100 Year Floodplain
	2009 Delineated Wetlands
	Federal Land Boundary
	Chesapeake Bay Critical Area
	Existing SWM Pond
	Bridge Structure
	Proposed SWM/ Environmental Site Design

MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY

MD 4 / MD 235 INTERSECTION IMPROVEMENTS

OPTION A – CONTINUOUS FLOW INTERSECTION

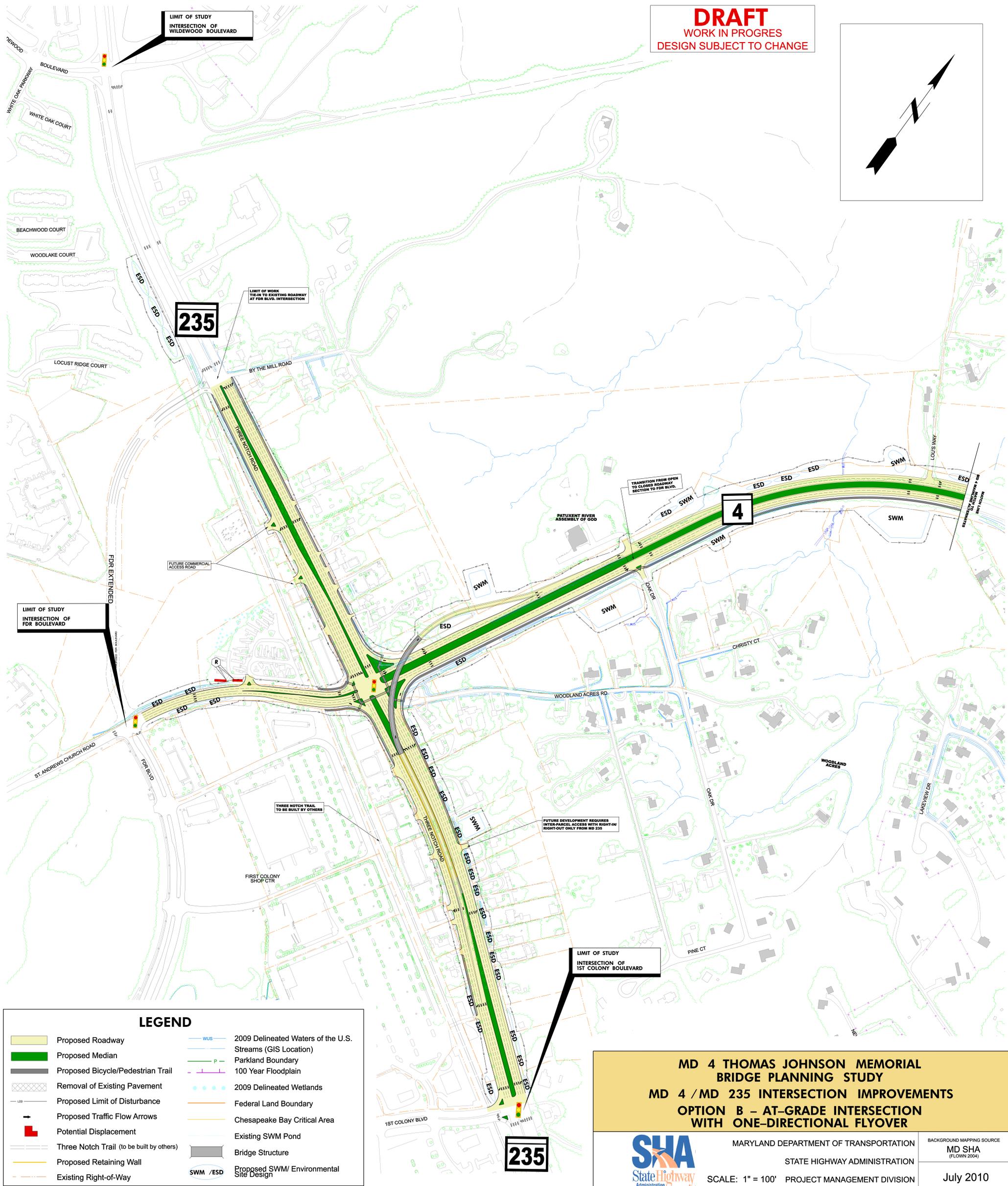
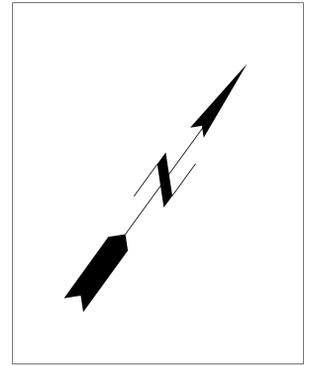
MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY

MD 4 / MD 235 INTERSECTION IMPROVEMENTS

OPTION B – AT-GRADE INTERSECTION WITH ONE-DIRECTIONAL FLYOVER

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WORK IN PROGRESS
DESIGN SUBJECT TO CHANGE



LEGEND	
	Proposed Roadway
	Proposed Median
	Proposed Bicycle/Pedestrian Trail
	Removal of Existing Pavement
	Proposed Limit of Disturbance
	Proposed Traffic Flow Arrows
	Potential Displacement
	Three Notch Trail (to be built by others)
	Proposed Retaining Wall
	Existing Right-of-Way
	2009 Delineated Waters of the U.S. Streams (GIS Location)
	Parkland Boundary
	100 Year Floodplain
	2009 Delineated Wetlands
	Federal Land Boundary
	Chesapeake Bay Critical Area
	Existing SWM Pond
	Bridge Structure
	Proposed SWM/ Environmental Site Design

MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY

MD 4 / MD 235 INTERSECTION IMPROVEMENTS

OPTION B – AT-GRADE INTERSECTION WITH ONE-DIRECTIONAL FLYOVER

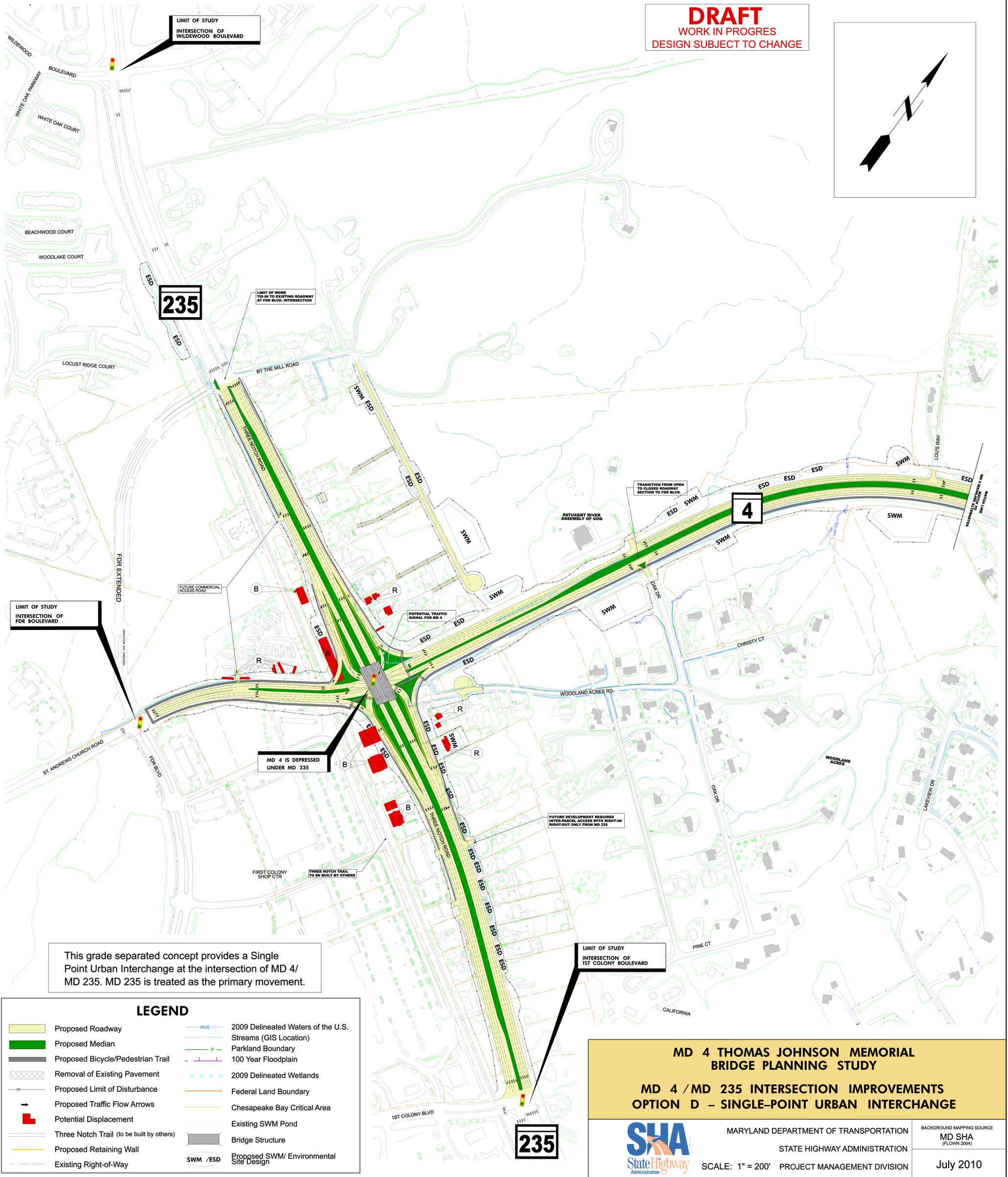
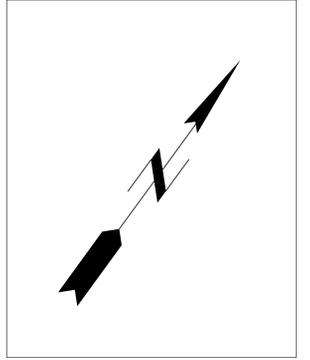
	MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION	BACKGROUND MAPPING SOURCE MD SHA (FLOWN 2009)
	SCALE: 1" = 100'	PROJECT MANAGEMENT DIVISION
		July 2010

MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY

MD 4 / MD 235 INTERSECTION IMPROVEMENTS

OPTION D – SINGLE-POINT URBAN INTERCHANGE

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WORK IN PROGRESS
DESIGN SUBJECT TO CHANGE



This grade separated concept provides a Single Point Urban Interchange at the intersection of MD 4/ MD 235. MD 235 is treated as the primary movement.

LEGEND

- | | |
|---|---|
| Proposed Roadway | 2009 Delineated Waters of the U.S. Streams (GIS Location) |
| Proposed Median | Parkland Boundary |
| Proposed Bicycle/Pedestrian Trail | 100 Year Floodplain |
| Removal of Existing Pavement | 2009 Delineated Wetlands |
| Proposed Limit of Disturbance | Federal Land Boundary |
| Proposed Traffic Flow Arrows | Chesapeake Bay Critical Area |
| Potential Displacement | Existing SWM Pond |
| Three Notch Trail (to be built by others) | Bridge Structure |
| Proposed Retaining Wall | Proposed SWM/ Environmental Site Design |
| Existing Right-of-Way | |

MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY

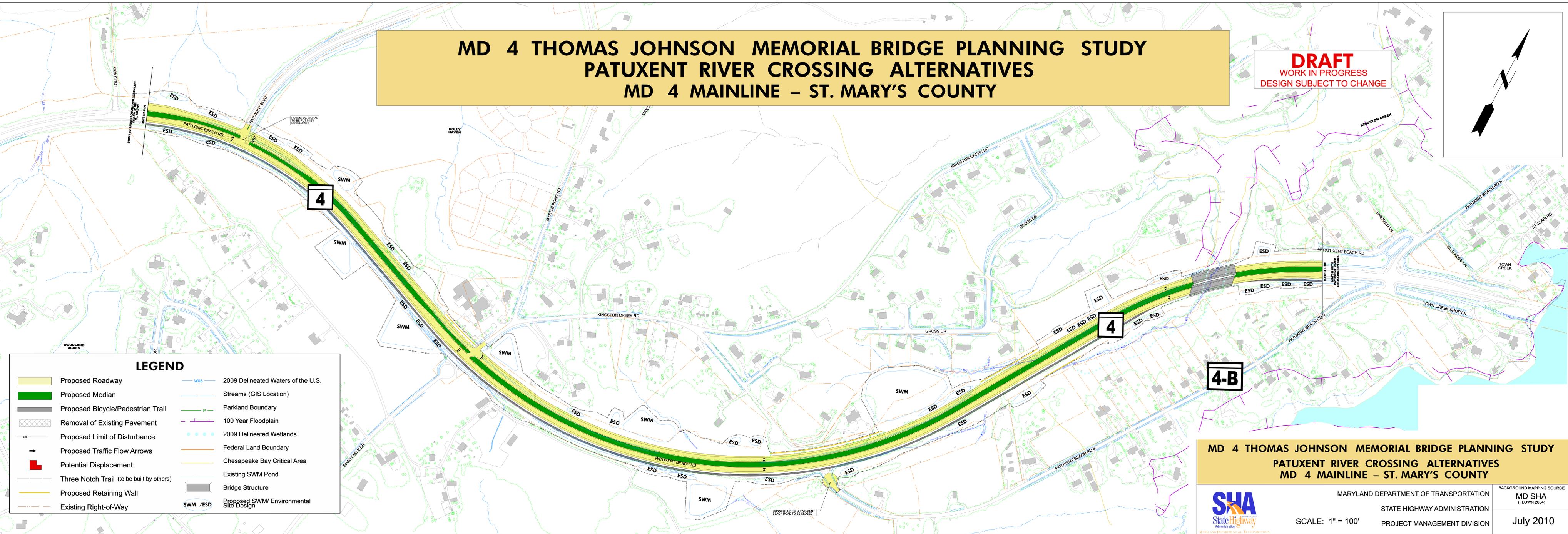
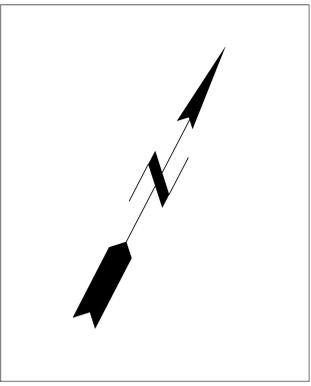
MD 4 / MD 235 INTERSECTION IMPROVEMENTS

OPTION D – SINGLE-POINT URBAN INTERCHANGE

	MARYLAND DEPARTMENT OF TRANSPORTATION	BACKGROUND MAPPING SOURCE
	STATE HIGHWAY ADMINISTRATION	MD SHA (FLOWN 2004)
SCALE: 1" = 200'	PROJECT MANAGEMENT DIVISION	July 2010

MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY PATUXENT RIVER CROSSING ALTERNATIVES MD 4 MAINLINE – ST. MARY'S COUNTY

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WORK IN PROGRESS
DESIGN SUBJECT TO CHANGE



LEGEND

	Proposed Roadway		2009 Delineated Waters of the U.S.
	Proposed Median		Streams (GIS Location)
	Proposed Bicycle/Pedestrian Trail		Parkland Boundary
	Removal of Existing Pavement		100 Year Floodplain
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	Proposed Traffic Flow Arrows		Federal Land Boundary
	Potential Displacement		Chesapeake Bay Critical Area
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	Proposed Retaining Wall		Bridge Structure
	Existing Right-of-Way		Proposed SWM/ Environmental Site Design

**MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY
PATUXENT RIVER CROSSING ALTERNATIVES
MD 4 MAINLINE – ST. MARY'S COUNTY**

	MARYLAND DEPARTMENT OF TRANSPORTATION	BACKGROUND MAPPING SOURCE
	STATE HIGHWAY ADMINISTRATION	MD SHA (FLOWN 2004)
PROJECT MANAGEMENT DIVISION	SCALE: 1" = 100'	July 2010

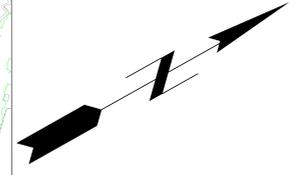
MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY

MD 4 MAINLINE – CALVERT COUNTY

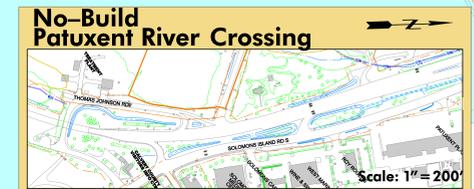
DRAFT

WORK IN PROGRESS

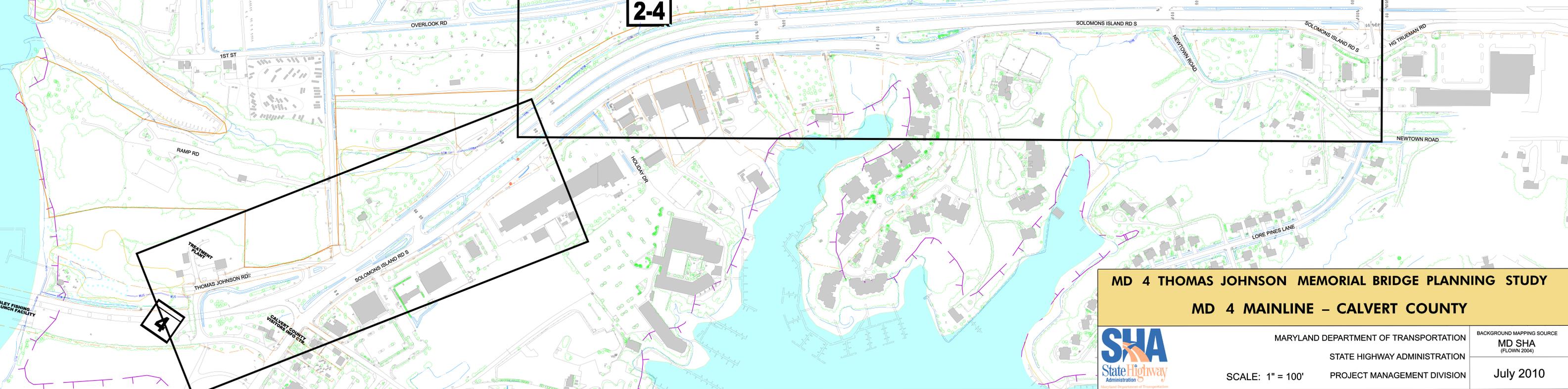
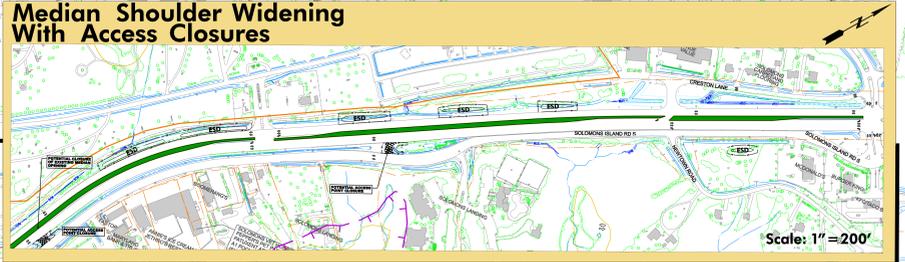
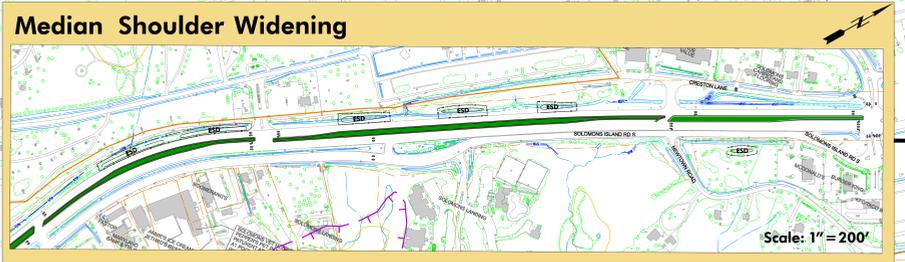
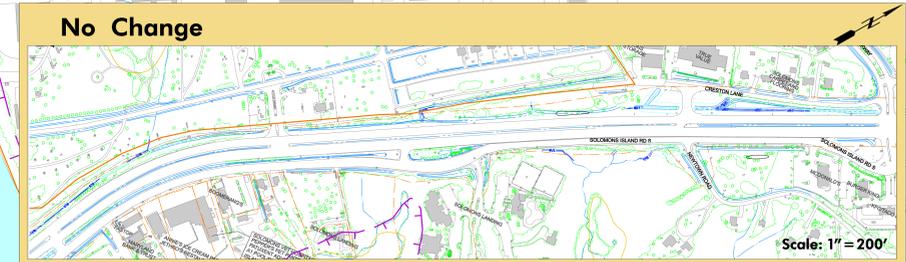
DESIGN SUBJECT TO CHANGE



- LEGEND**
- Proposed Roadway
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 - Bridge Structure
 - Proposed SWM/Environmental Site Design
 - Right-Of-Way



Note: In all Patuxent River Crossing Build Options, the access point from NB MD 4 to Solomons Island Rd S closest to the Visitors Center will be closed due to the proximity to the end of the new bridge span.



MD 4 THOMAS JOHNSON MEMORIAL BRIDGE PLANNING STUDY

MD 4 MAINLINE – CALVERT COUNTY



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
PROJECT MANAGEMENT DIVISION

SCALE: 1" = 100'

BACKGROUND MAPPING SOURCE
MD SHA (FLOWN 2004)
July 2010

CALVERT COUNTY
ST. MARY'S COU