

I - 495 & I - 270 MANAGED LANES STUDY

Wetland and Waterway Impact Plots





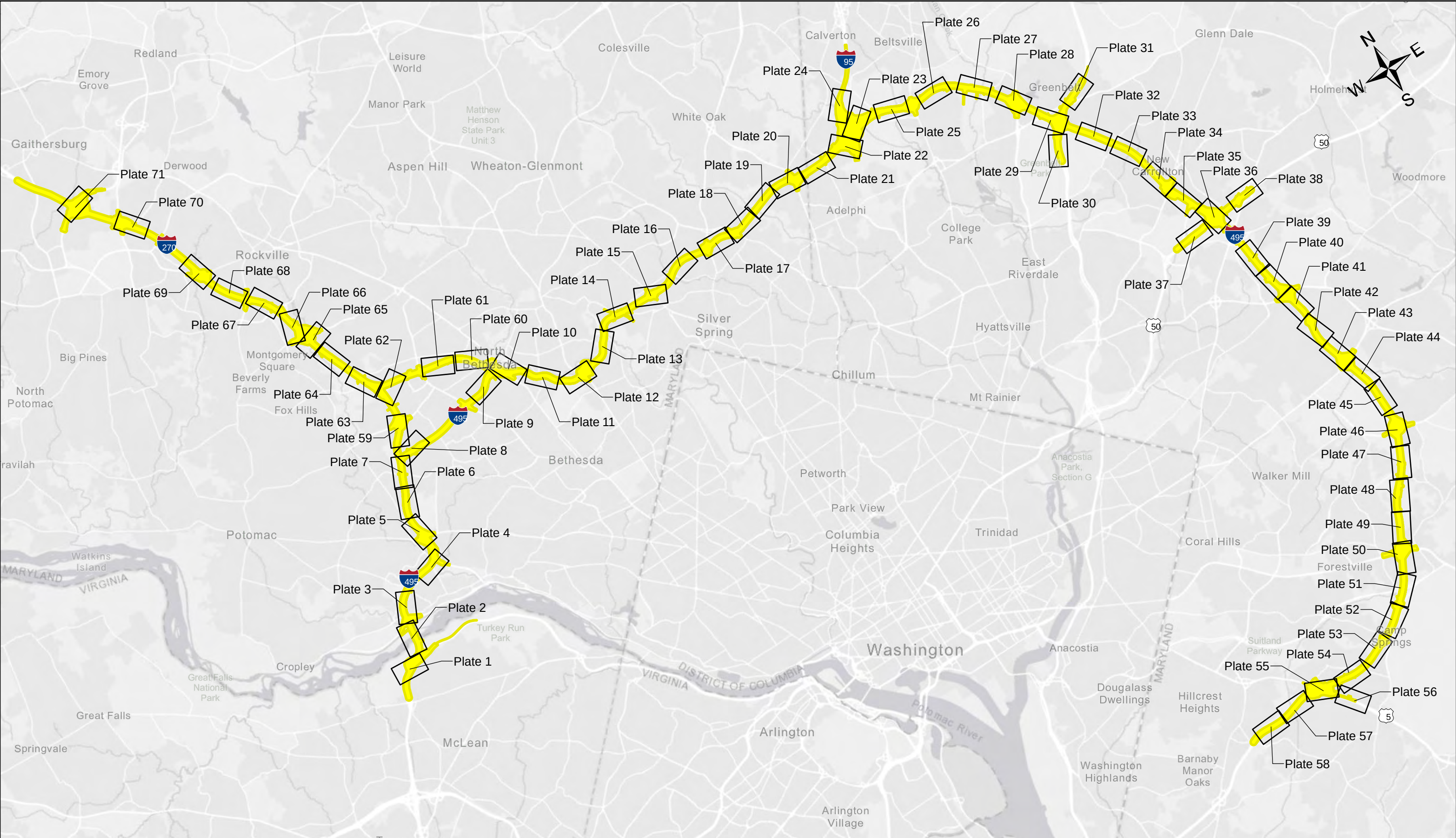
Impact Plate Build Alternative Table

General Notes:

1. The following plates show the unavoidable impacts associated with the six Build Alternatives. In locations where the LODs and wetland and waterway impacts are identical between the Build Alternatives only one plate is included. Where the LODs and/or wetland and waterway impacts differ, plates are included to depict each different LOD and/or wetland and waterway impact. Plates are numbered consecutively from George Washington Memorial Parkway in Virginia along I-495 to MD 5 in Maryland and then north along I-270 and letters are used to distinguish between plates showing different LODs and wetland and waterways impacts. The table on this page acts as a key to identify the plate on which each Build Alternative LOD and wetland and waterway impact is shown.
2. The impact tables, separated by jurisdiction, are presented separately from the impact plates.
3. All USACE and MDE jurisdictional features and impacts are depicted on each plate, however, some features are only jurisdictional to one agency. As a result, some features shown on the plates may not appear in both sets of tables.
4. In some locations the LOD for more than one Build Alternative is identical while the Build Alternative design may be different. In these instances, one plate is used to represent the LOD and impacts for more than one Build Alternative, however only one Build Alternative design can be shown. An asterisk is included in the table on this page to indicate the Build Alternative design shown.
5. Federal Emergency Management Administration (FEMA) 100-year floodplains impacts are not depicted in their entirety on the plates, and do not have unique impact symbology. FEMA 100-year floodplain impacts are included in their entirety in the MDE impact tables.

PLATE	ALT 8	ALT9	ALT9M	ALT10	ALT13B	ALT13C
1-6	A	A*	A	A	A	A
7	A	A*	B	C*	A	C
8	A	A*	B	C*	A	C
9	A	A*	B	A	A	A
10	A	A*	B	A	A	A
11	A	A*	B	A	A	A
12	A	A*	B	A	A	A
13	A	A*	B	A	A	A
14	A	A*	B	A	A	A
15	A	A*	B	A	A	A
16	A	A*	B	A	A	A
17	A	A*	B	A	A	A
18	A	A*	B	A	A	A
19	A	A*	B	A	A	A
20	A	A*	B	A	A	A
21	A	A*	B	A	A	A
22-58	A	A*	A	A	A	A
59	A	A*	A	B	C	D
60	A	A*	B	C	D	A
61	A	A*	B	C	D	E
62	A	A*	B	C	D	E
63	A	A*	A	B	C	D
64	A	A*	A	B	C	D
65	A	A*	A	B	C	D
66	A	A*	A	B	C	D
67	A	A*	A	B	C	D
68	A	A*	A	B	C	D
69	A	A*	A	B	C	D
70	A	A*	A	B	C	D
71	A	A*	A	B*	A	B

* Build alternative shown, see general note 4



Legend

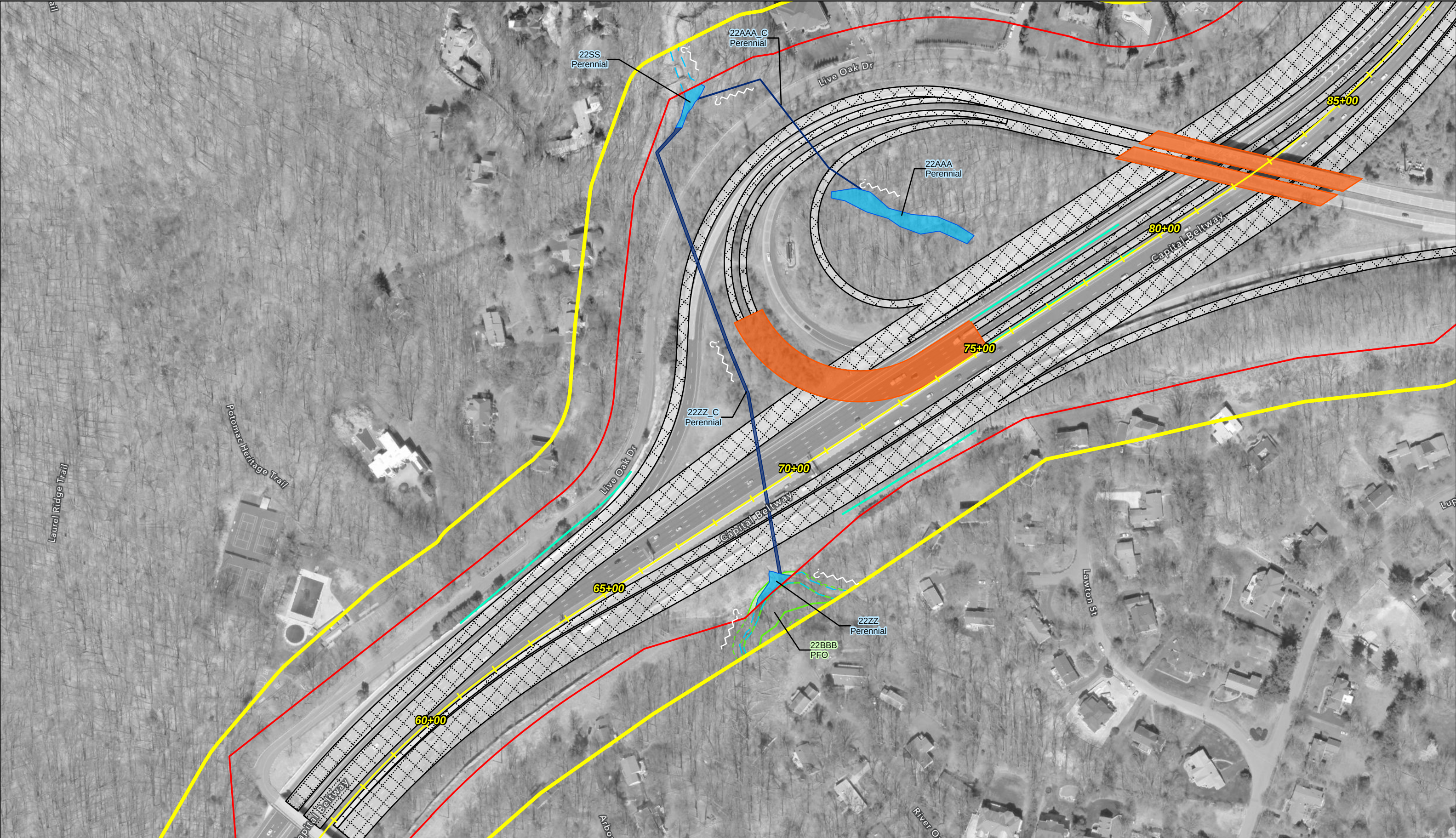
- Delineation Limits
- Impact Plate

0 1.5 3 Miles

Wetland and Waterway Impacts Plates

Impact Plate Overview Map

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)

- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access

- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert

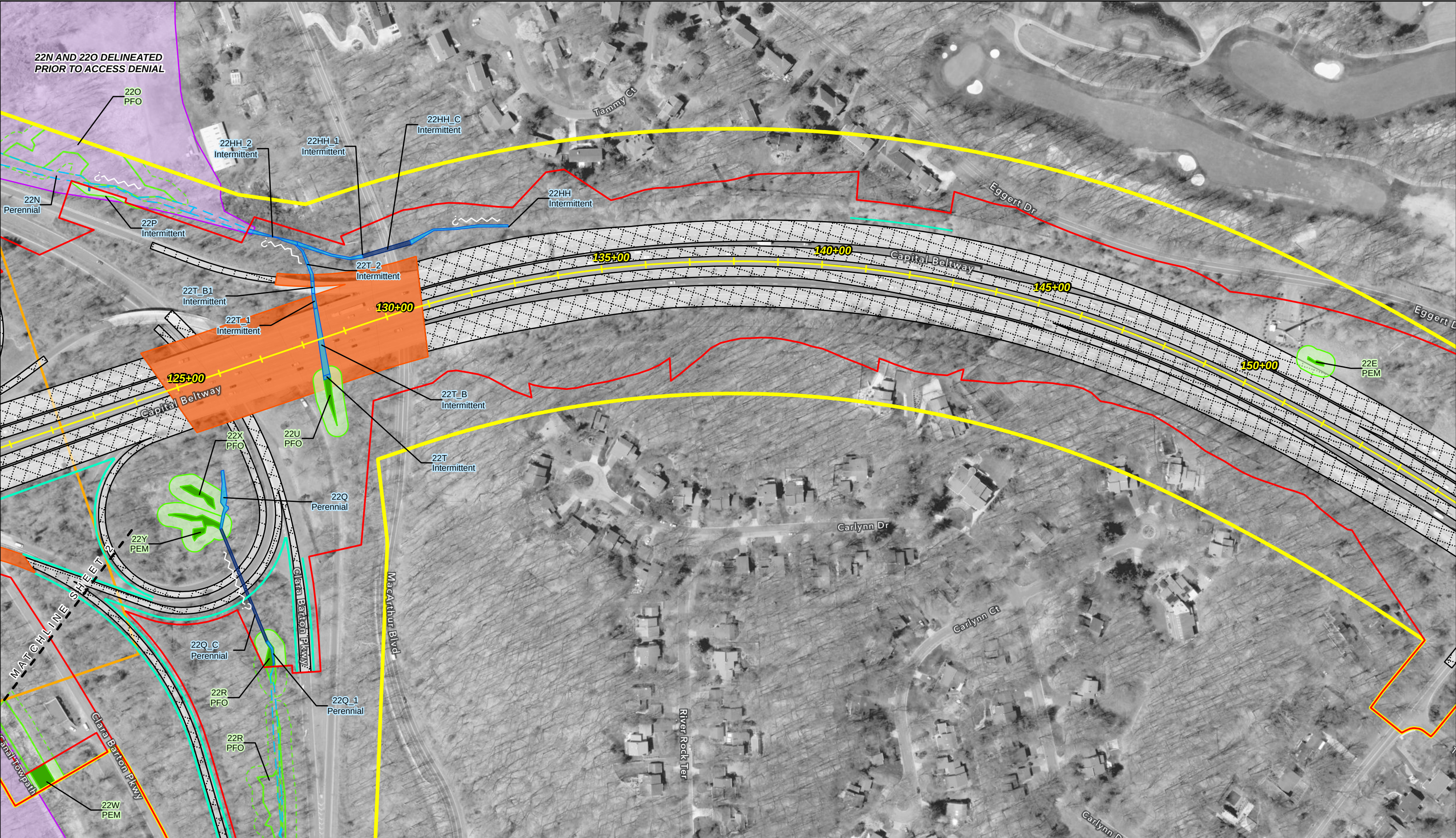
Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

Flow Direction

Wetland and Waterway Impact Plates

Impact Plate 1A

April 15, 2020



Legend

Limit of Disturbance

Delineation Limits

Structure

Proposed Lanes

Culvert Impact

Waterway Impact

Wetland Impact

Wetland Buffer Impact

Wetland (No Impact)

Waterway (No Impact)

Wetland Buffer (No Impact)

Proposed Retaining Wall

FEMA 100YR Floodplain

Pending Delineation or Pending/
Denied Access

Map Sheet

Matchline

New/Augmented Pipe/Culvert

Flow Direction

Note: The LOD on this plate applies to ALT8,
ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

1

2

3

4

5

0

100

200

400

1 inch = 200 feet

**Wetland and Waterway
Impact Plates**

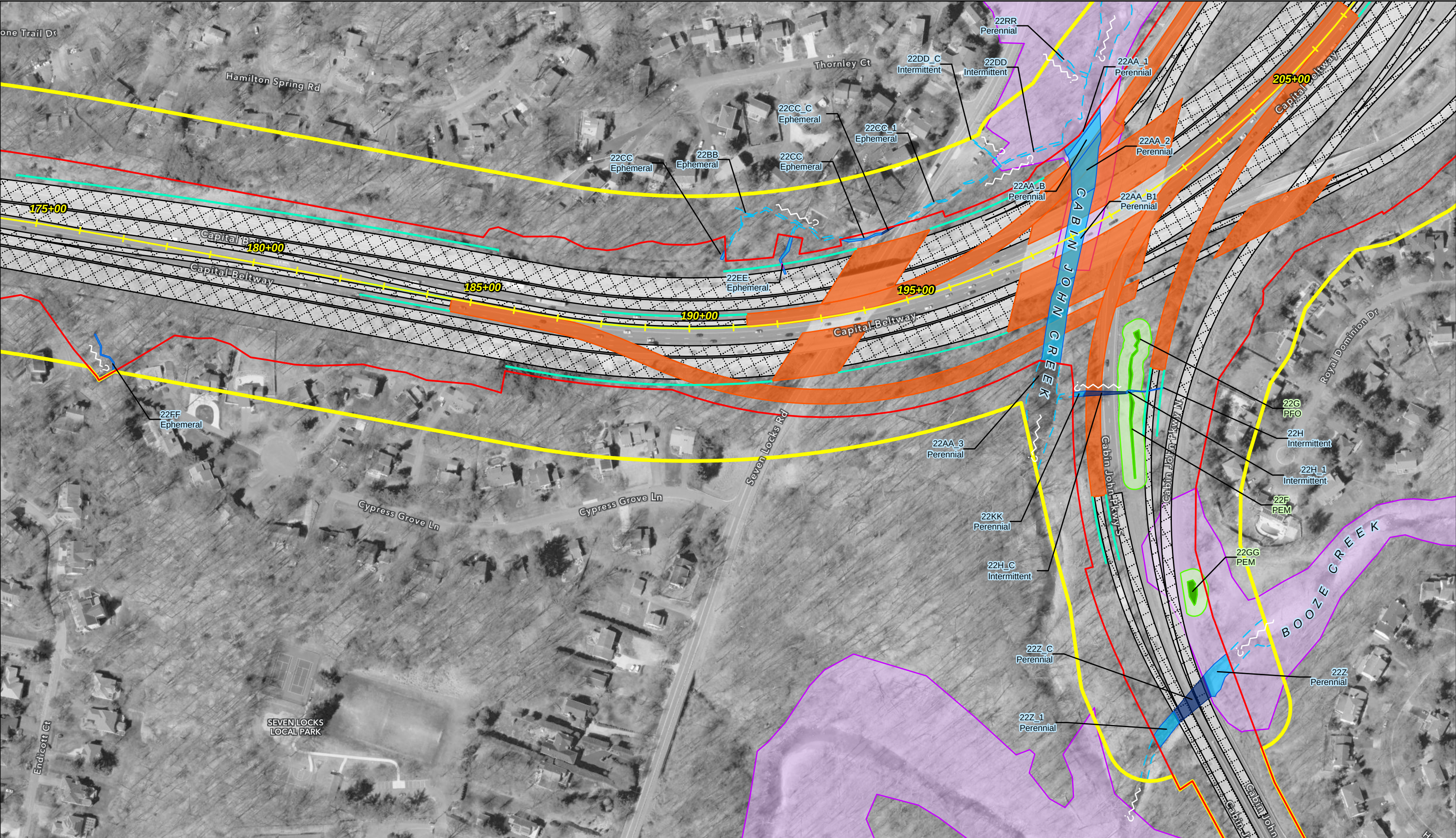
Impact Plate 3A

270

495

MANAGED
LANES STUDY

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)

- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access

- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert

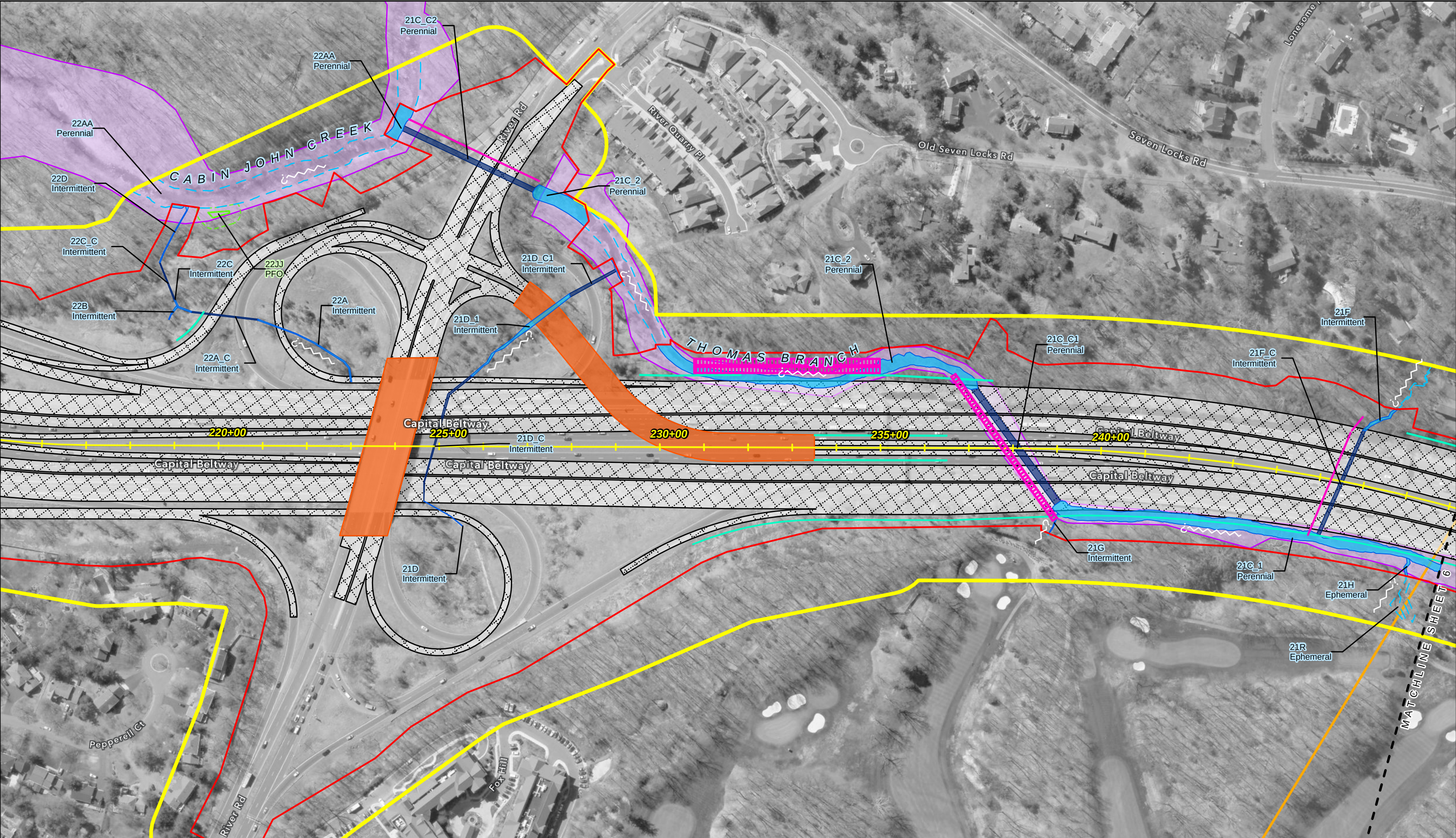
Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

Flow Direction

Wetland and Waterway Impact Plates

Impact Plate 4A

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

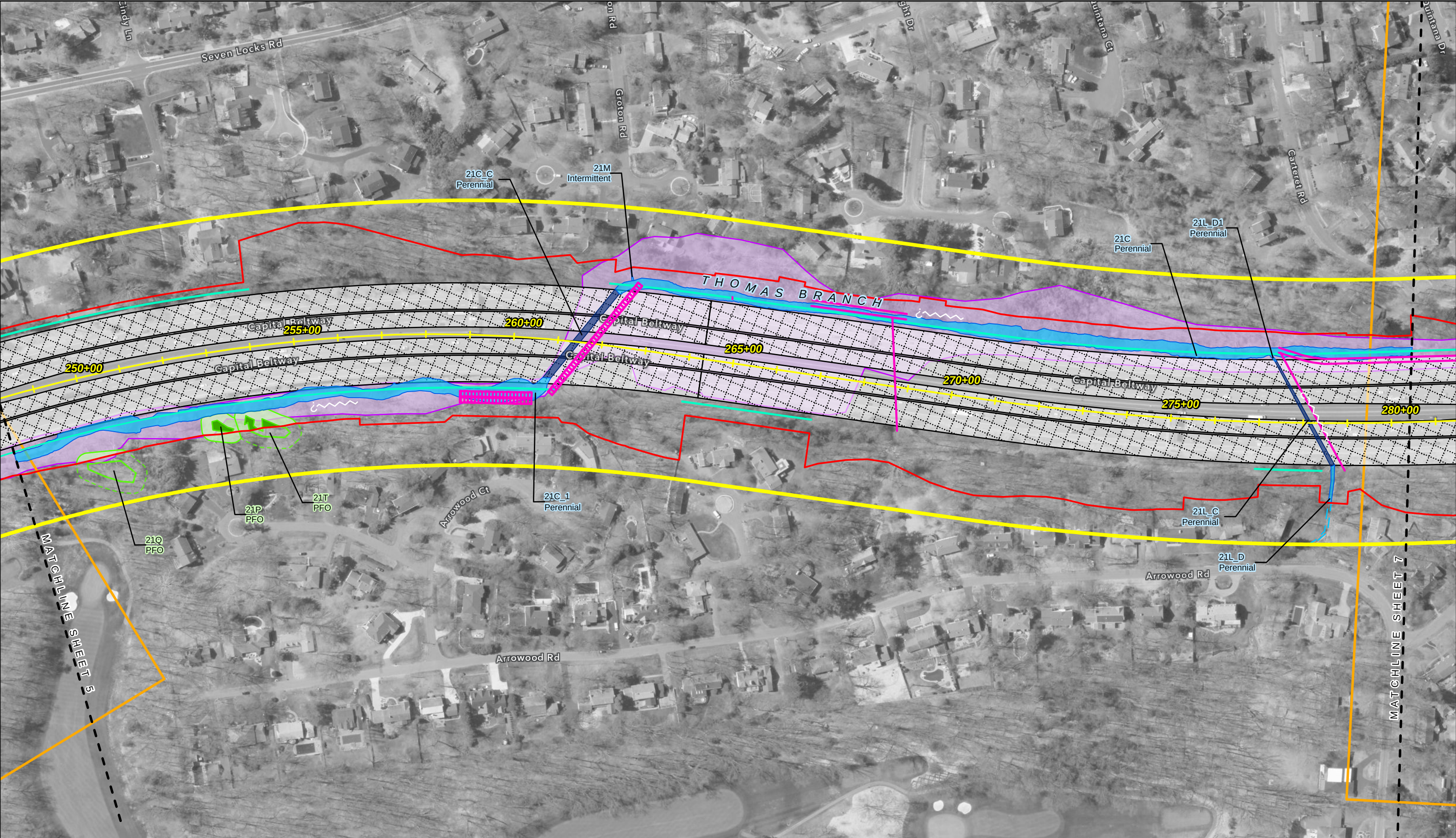
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 5A

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

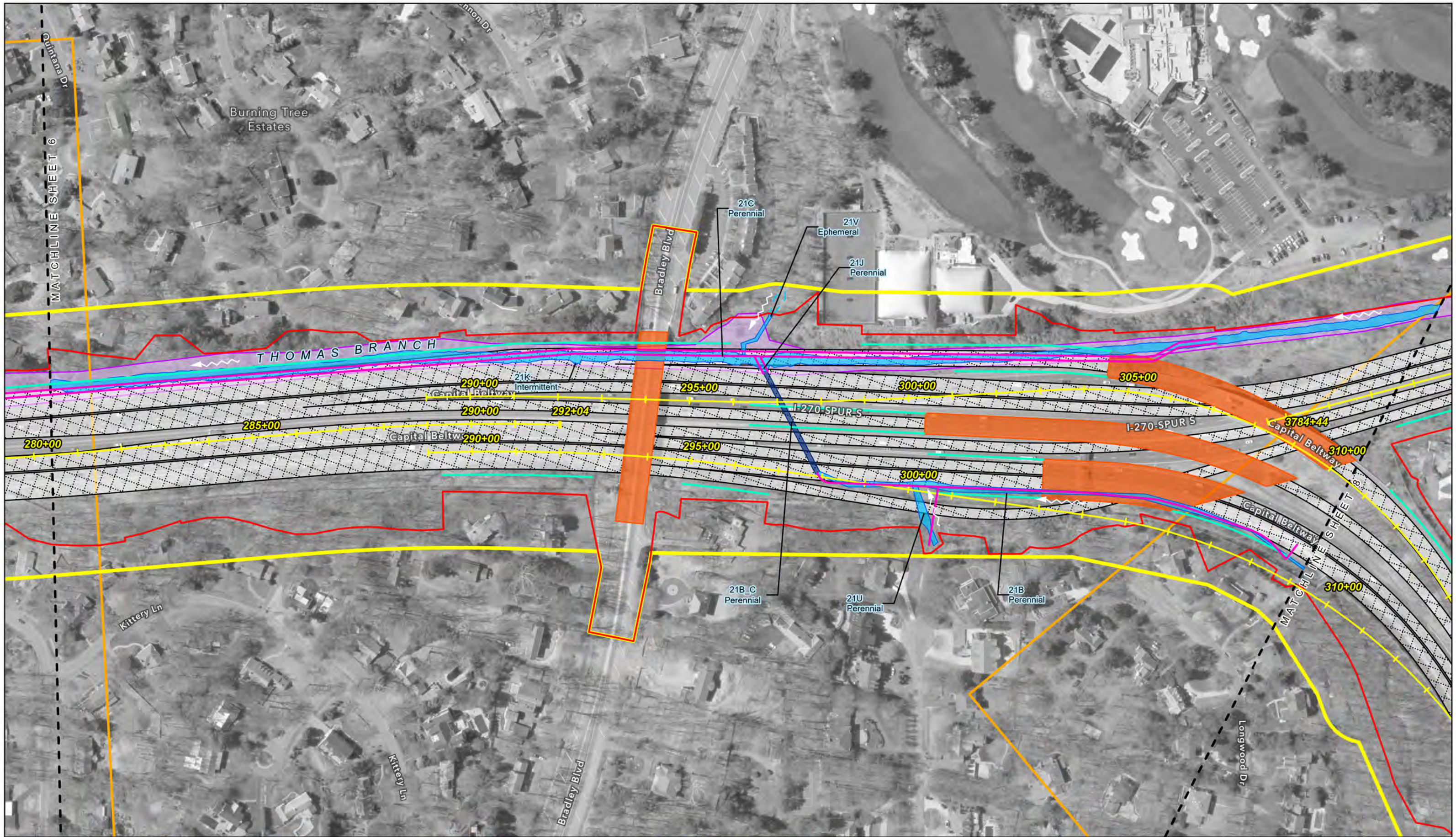
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 6A

April 15, 2020



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)
Structure	Wetland Impact	Proposed Retaining Wall
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access

Map Sheet

Matchline

New/Augmented Pipe/Culvert

Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, and ALT13B.

0 100 200 400

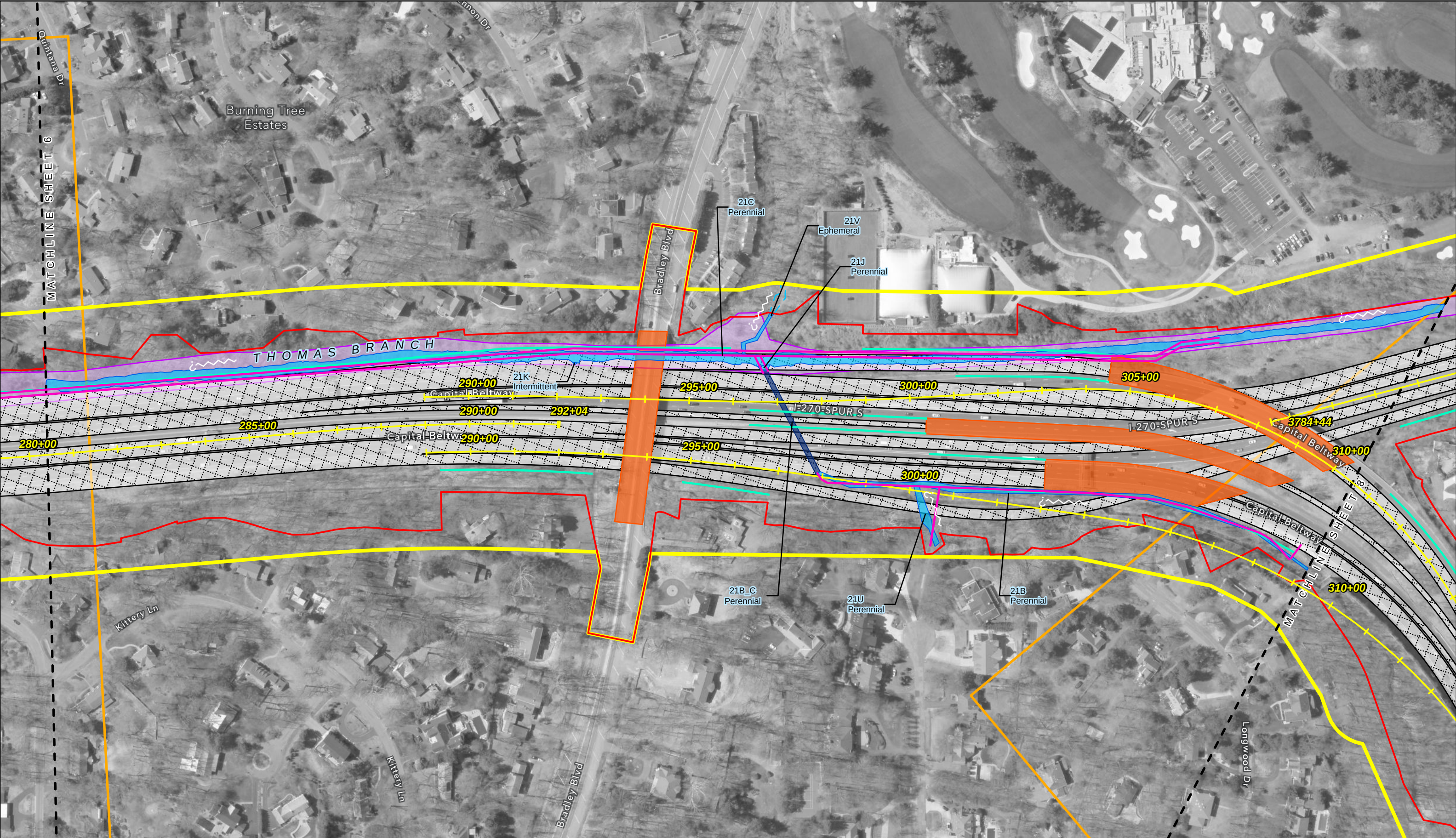
1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 7A

April 15, 2020

MANAGED LANES STUDY



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)

- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access

- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert

Note: The LOD on this plate applies to ALT9M.

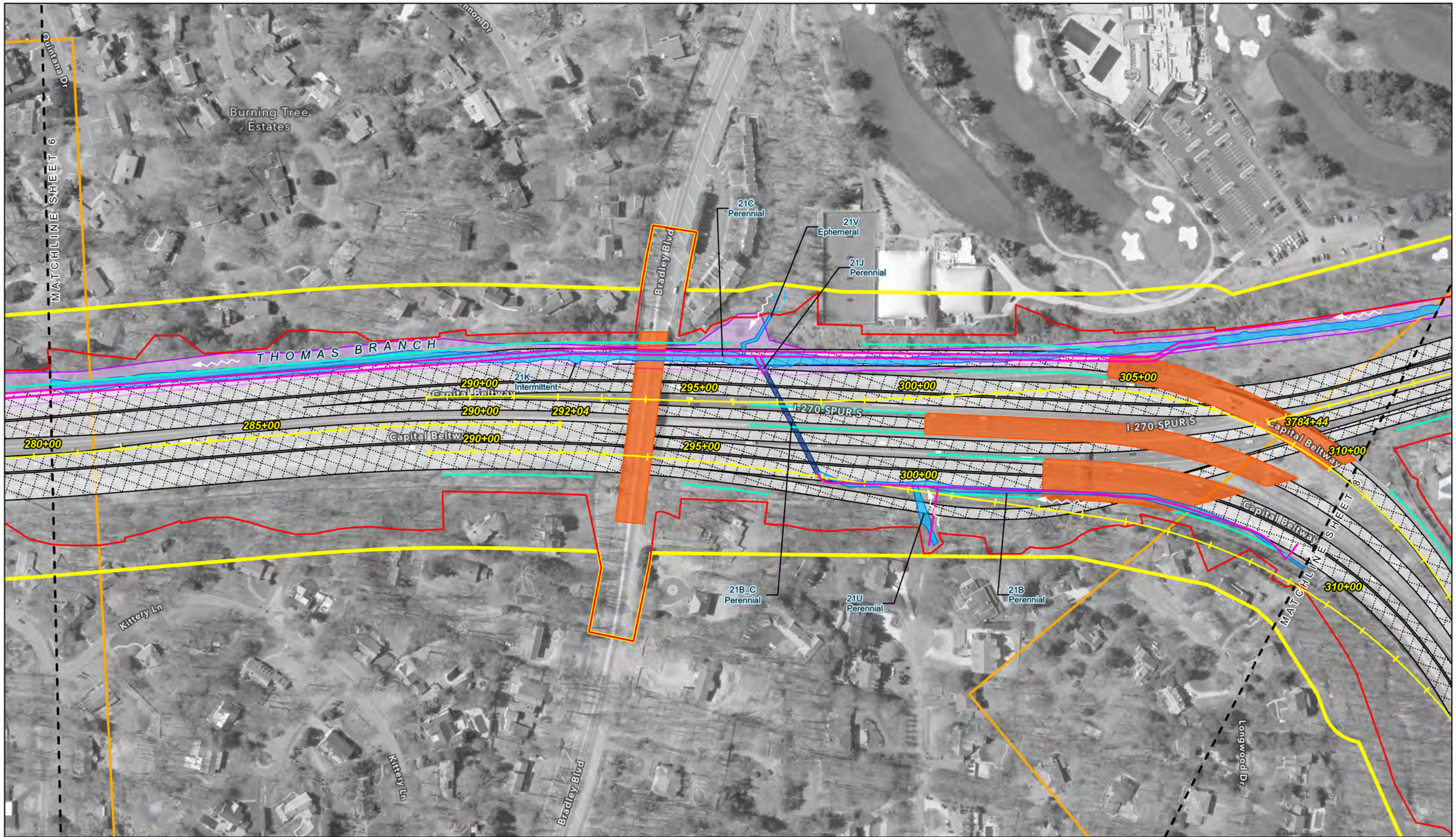
0 100 200 400

1 inch = 200 feet

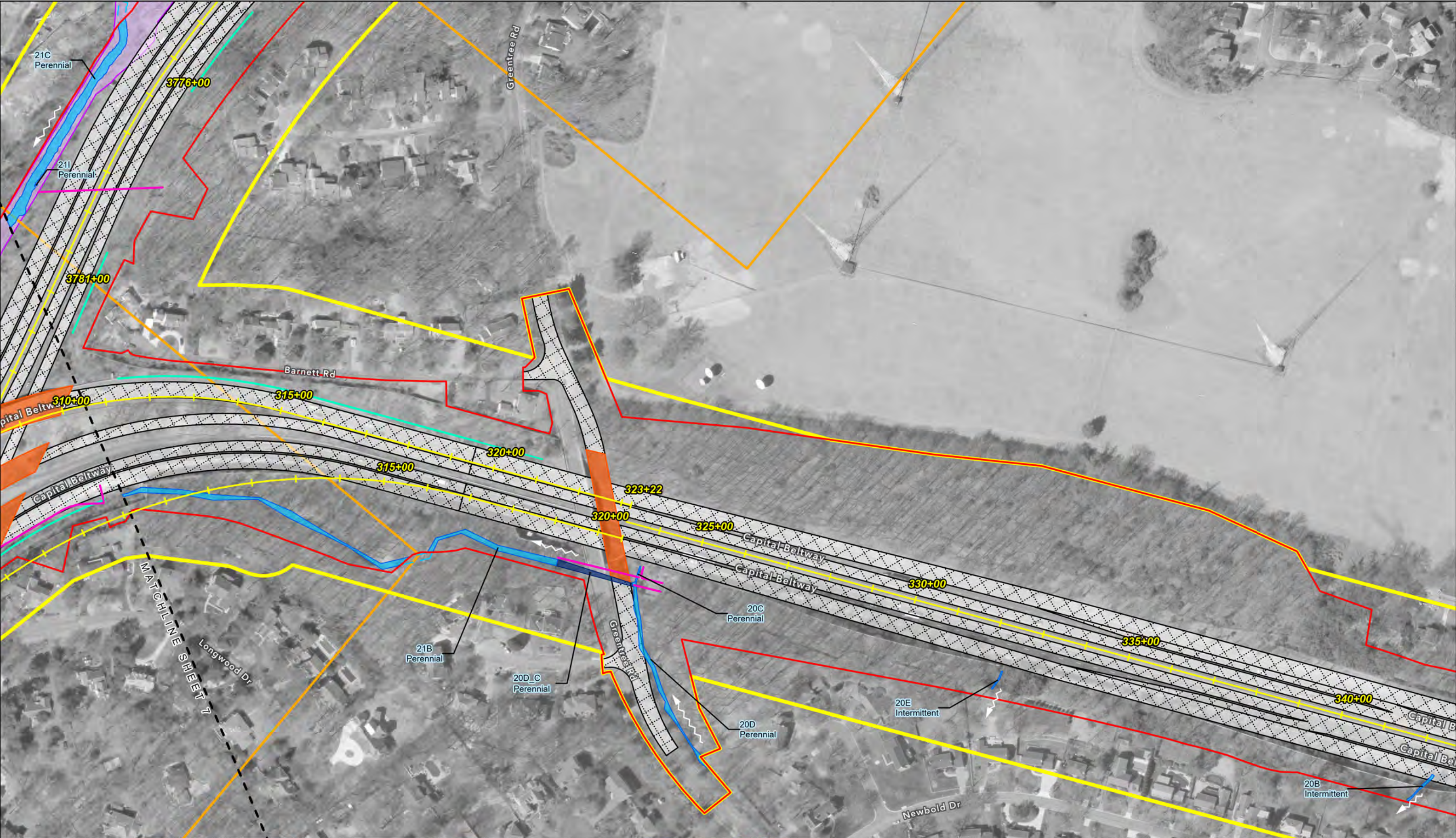
Wetland and Waterway Impact Plates

Impact Plate 7B

April 15, 2020



Legend	- Culvert Impact - Waterway Impact - Wetland Impact - Wetland Buffer Impact - Wetland (No Impact)	- Waterway (No Impact) - Wetland Buffer (No Impact) - Proposed Retaining Wall - FEMA 100YR Floodplain - Pending Delineation or Pending/Denied Access	- Map Sheet - Matchline - New/Augmented Pipe/Culvert	Note: The LOD on this plate applies to ALT10 and ALT13C.		Wetland and Waterway Impact Plates Impact Plate 7C April 15, 2020	
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Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain		
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

Note: The LOD on this plate applies to ALT8, ALT9, and ALT13B.

0 100 200 400

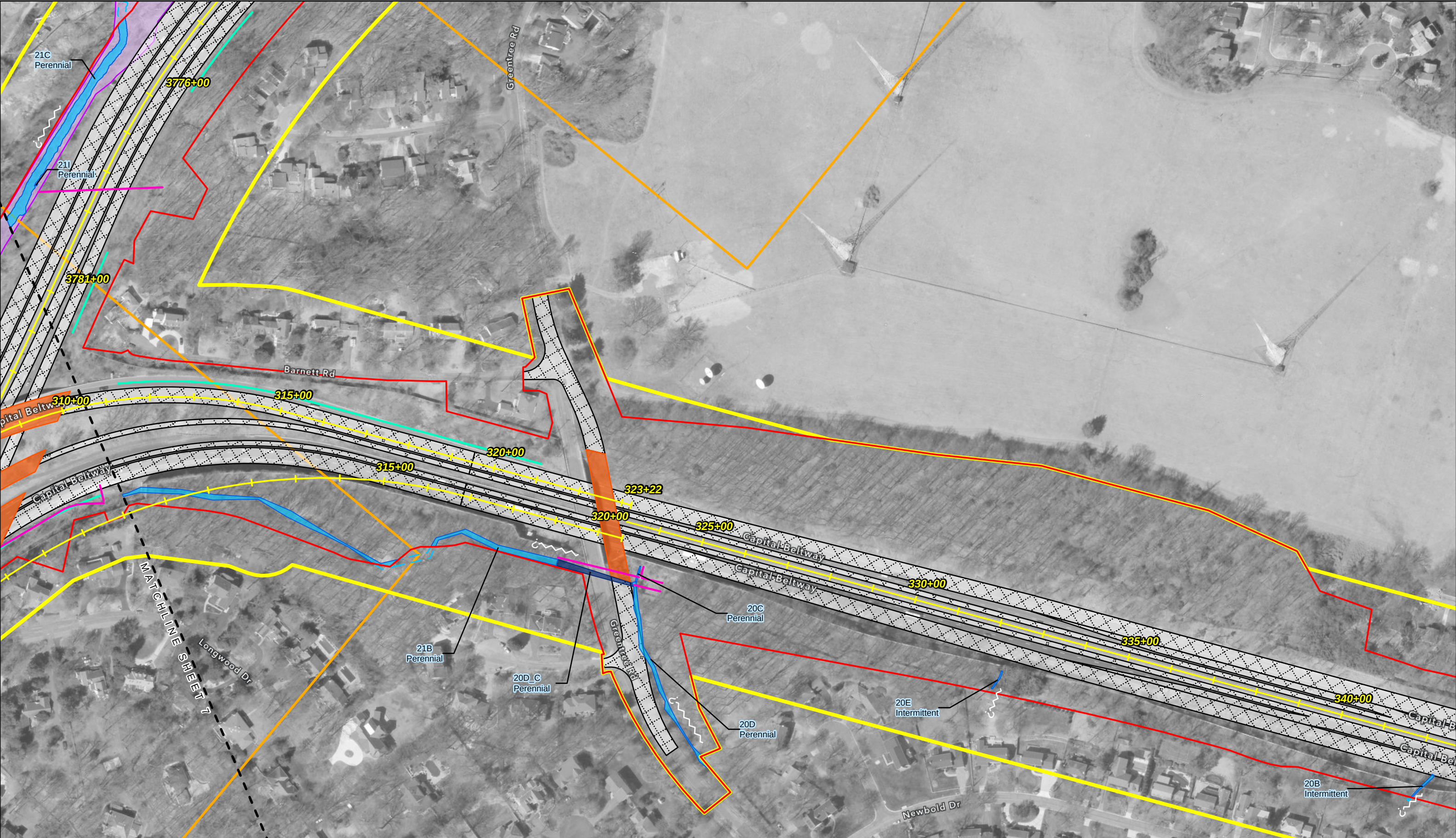
1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 8A

April 15, 2020

MANAGED LANES STUDY



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain	<i>Note: The LOD on this plate applies to ALT9M.</i>	
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

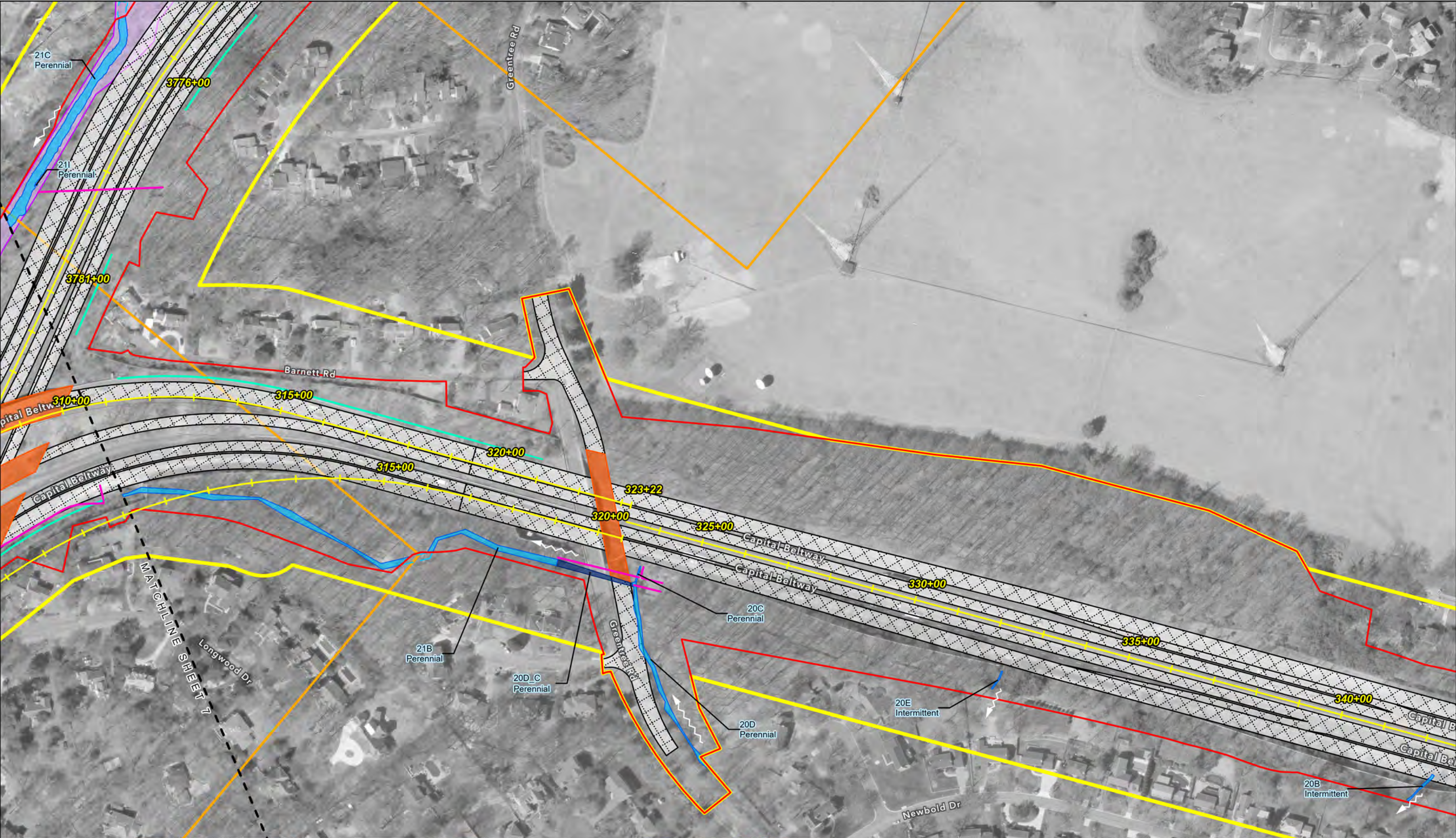
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 8B

April 15, 2020



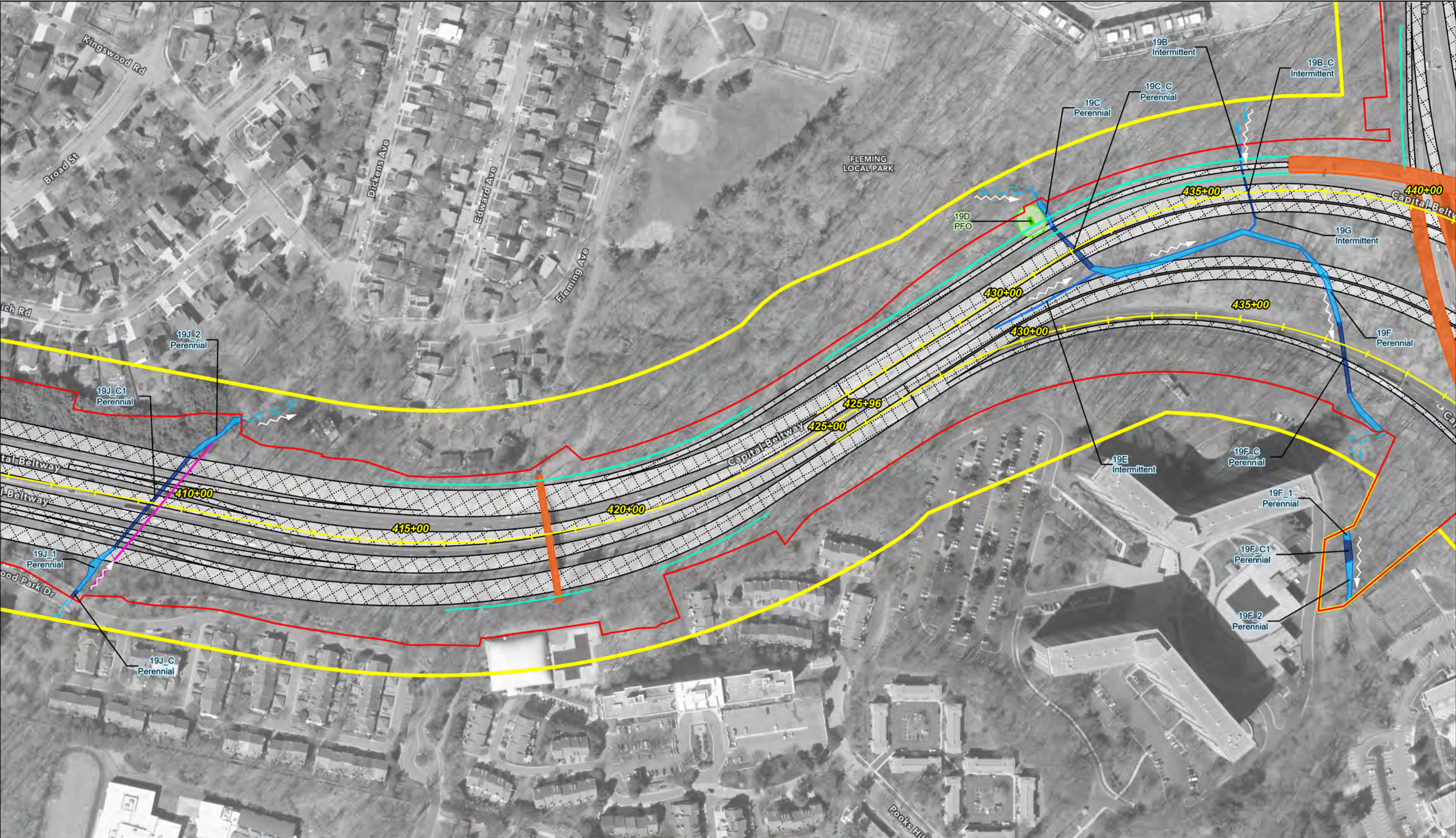
Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain	<i>Note: The LOD on this plate applies to ALT10 and ALT13C.</i>	
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

Wetland and Waterway Impact Plates

Impact Plate 8C

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.

0 100 200 400

1 inch = 200 feet

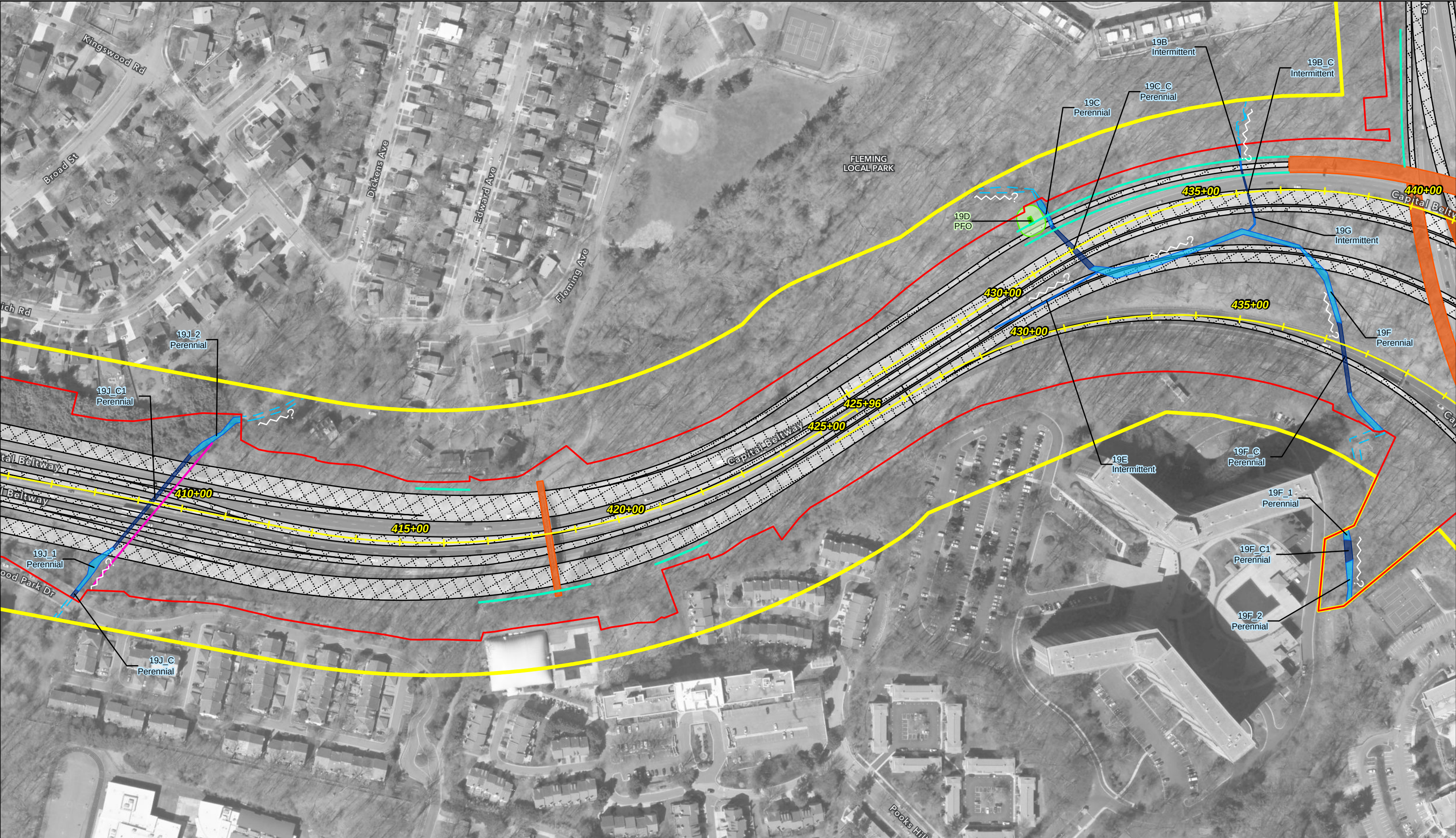
W N E S

Wetland and Waterway Impact Plates

Impact Plate 9A

April 15, 2020

MANAGED LANES STUDY



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)

- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access

- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert

Note: The LOD on this plate applies to ALT9M.

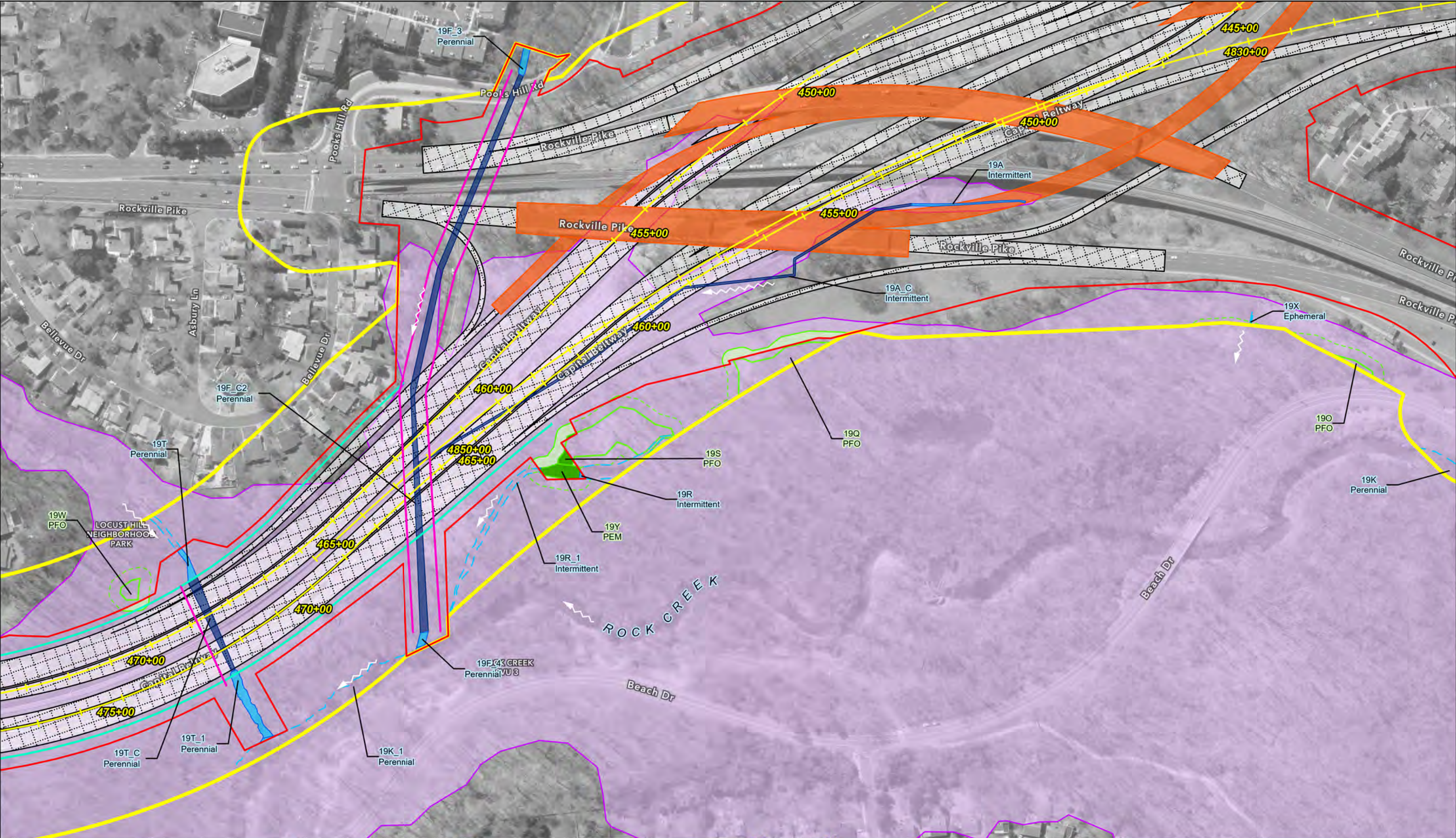
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 9B

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.

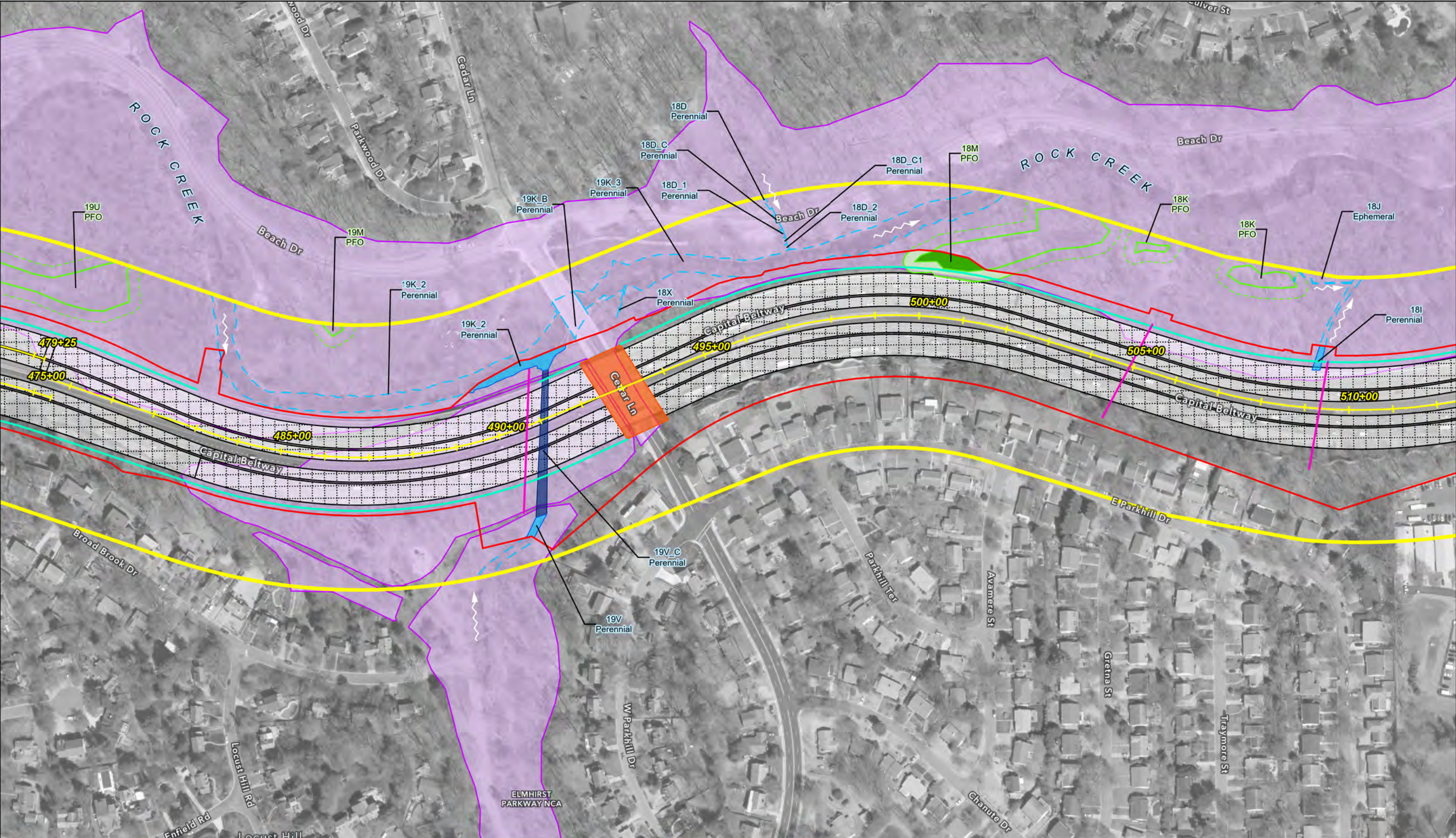
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 10A

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.

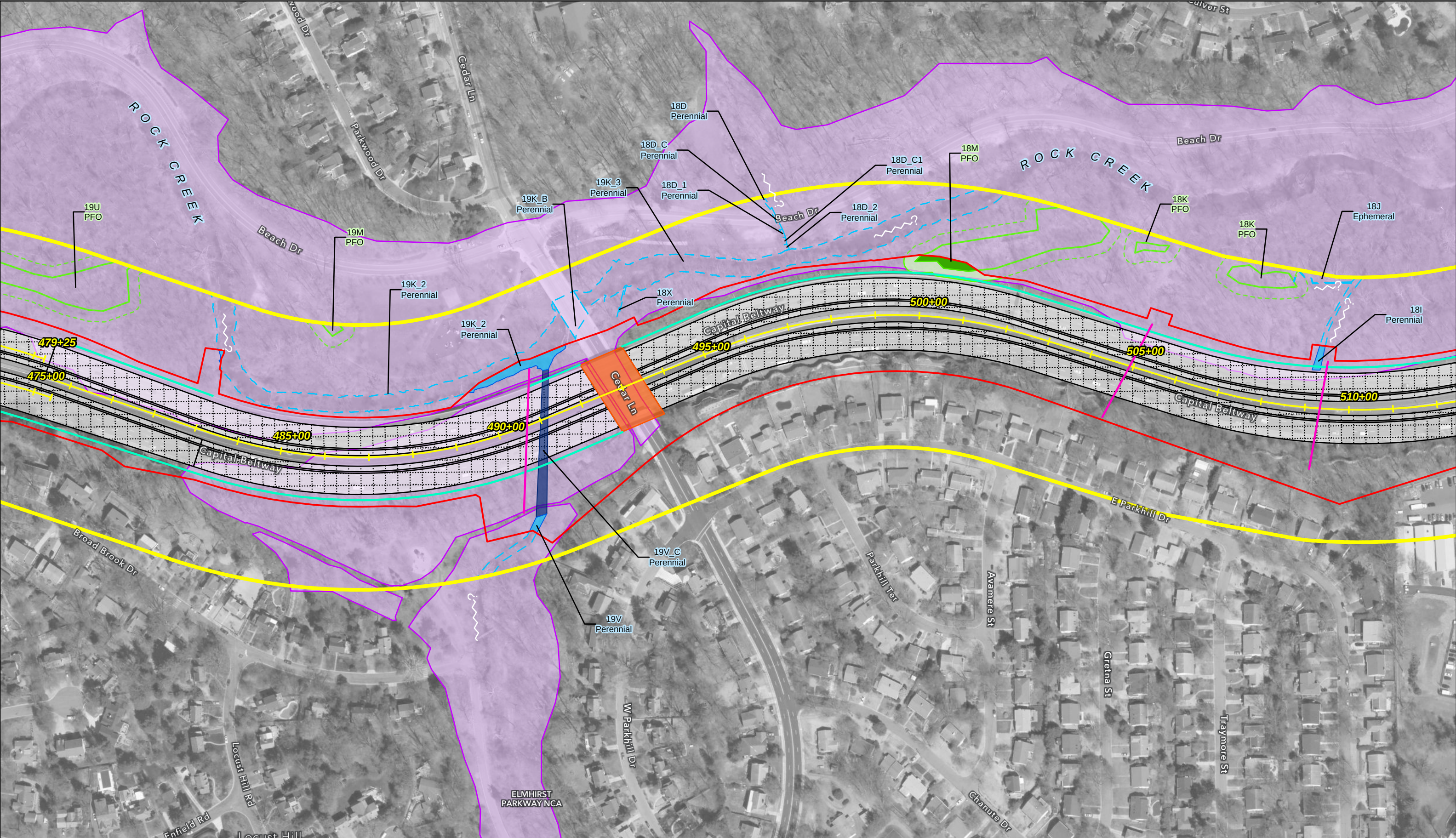
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 11A

April 15, 2020



Legend

Limit of Disturbance

Delineation Limits

Structure

Proposed Lanes

Culvert Impact

Waterway ImpactMap Sheet

North

605

100

Wetland and Waterway Impact Plates

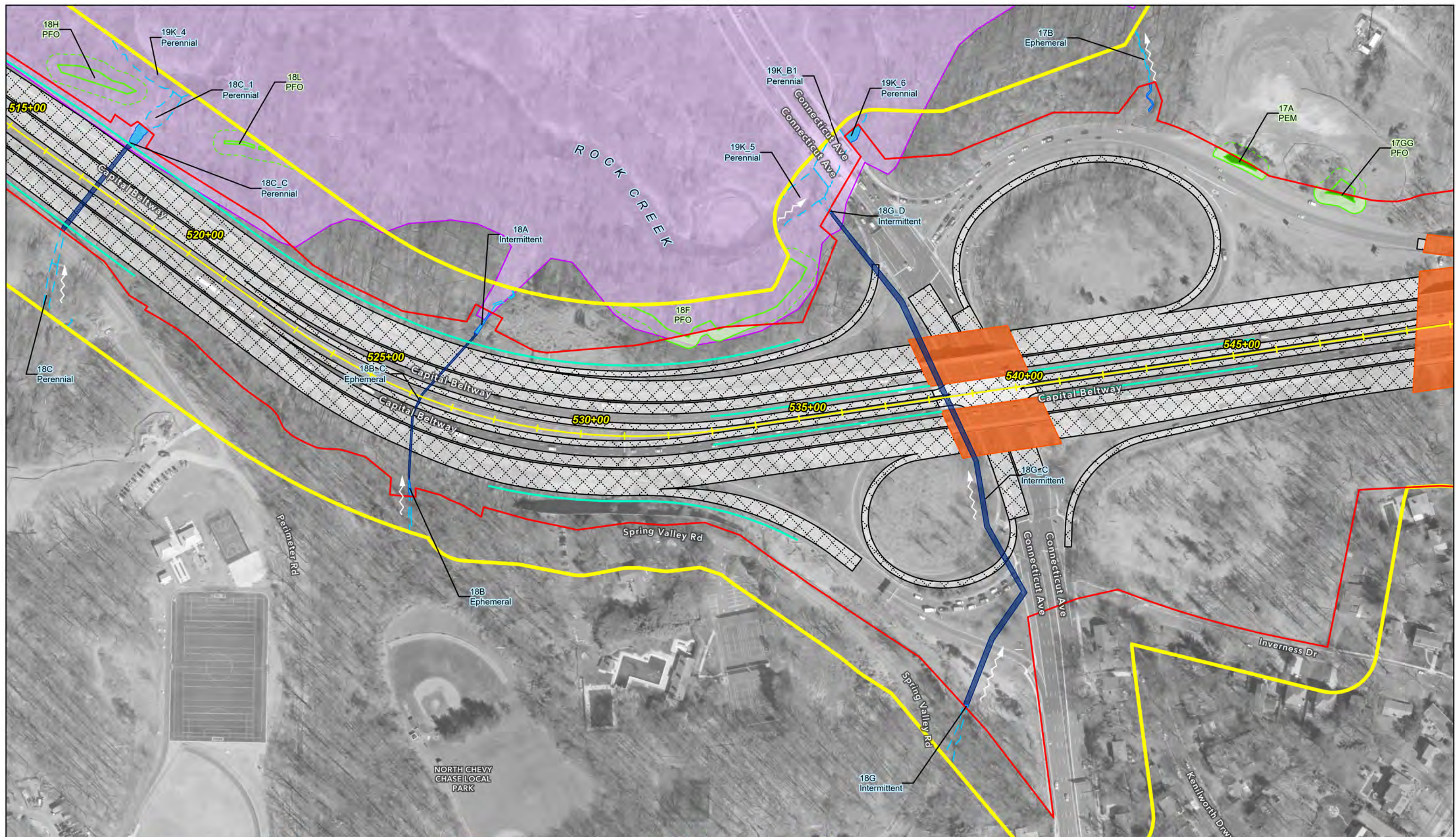
Impact Plate 11B

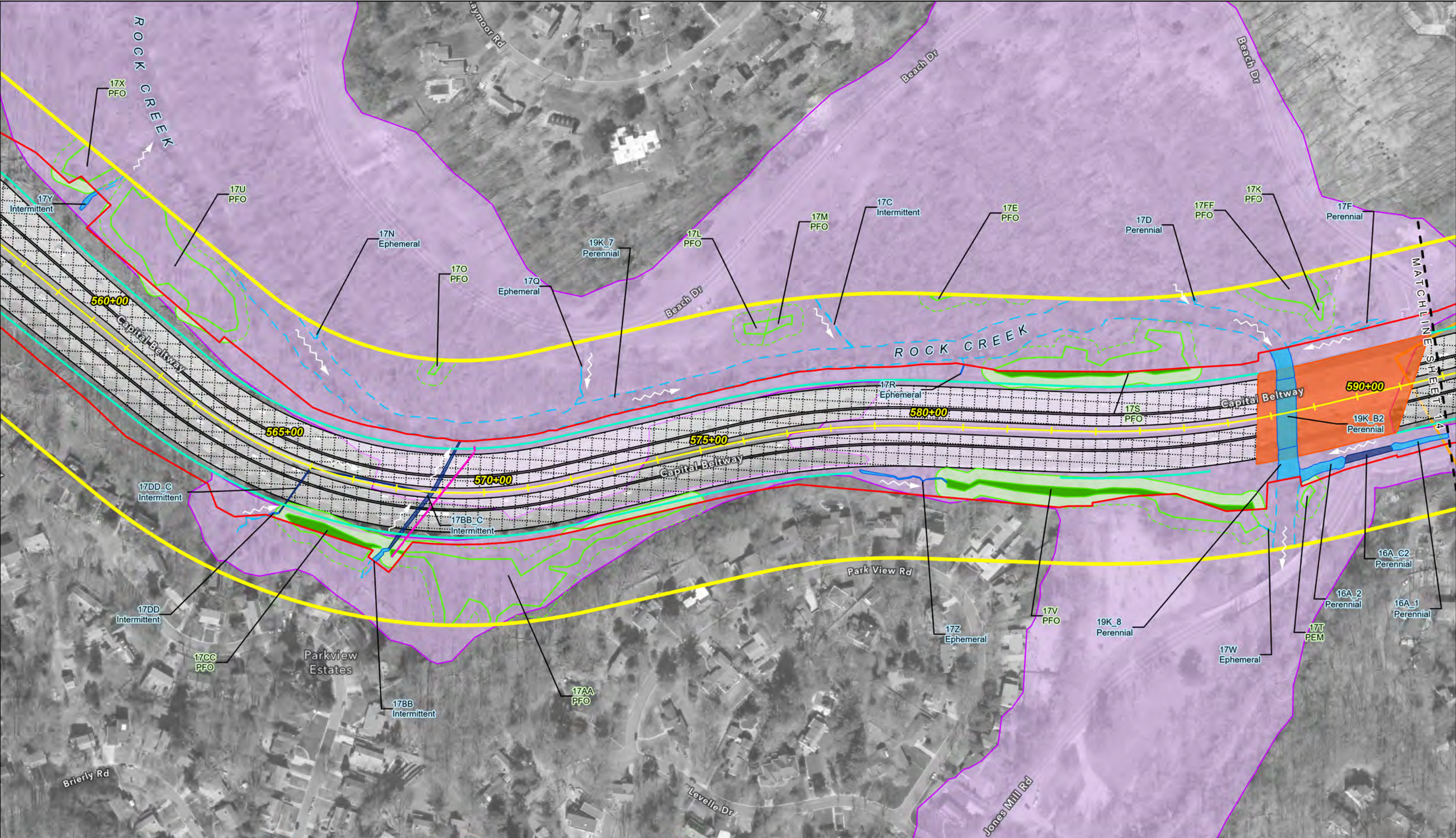
April 15, 2020

495

270

MANAGED LANES STUDY





Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Wetland and Waterway Impact Plates

Impact Plate 13A

April 15, 2020

MANAGED LANES STUDY

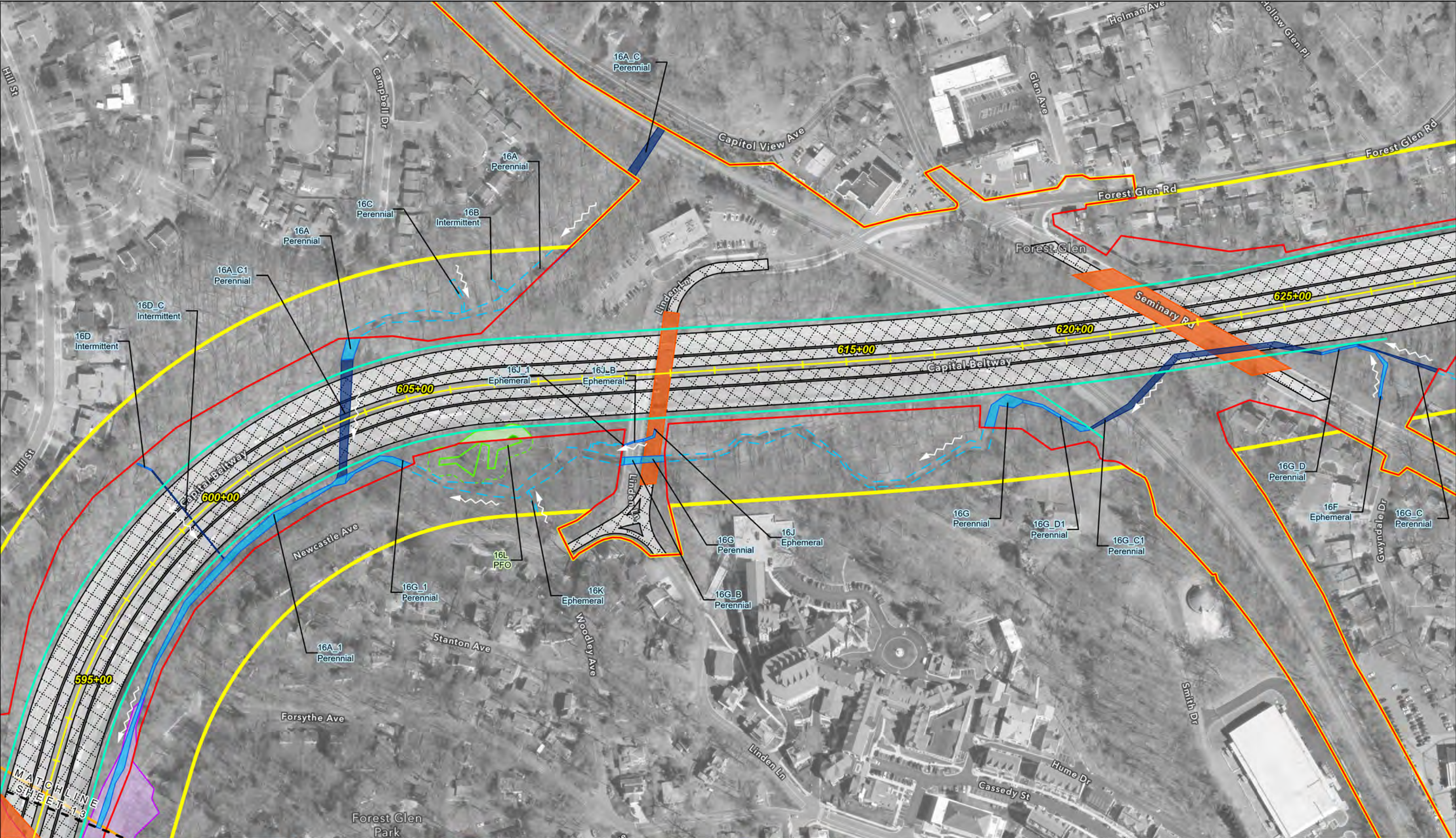
495 270

Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.

0 100 200 400

1 inch = 200 feet

W N S E



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.

0 100 200 400

1 inch = 200 feet

N
S

Wetland and Waterway Impact Plates

Impact Plate 14A

April 15, 2020



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain		
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.

0 100 200 400

1 inch = 200 feet

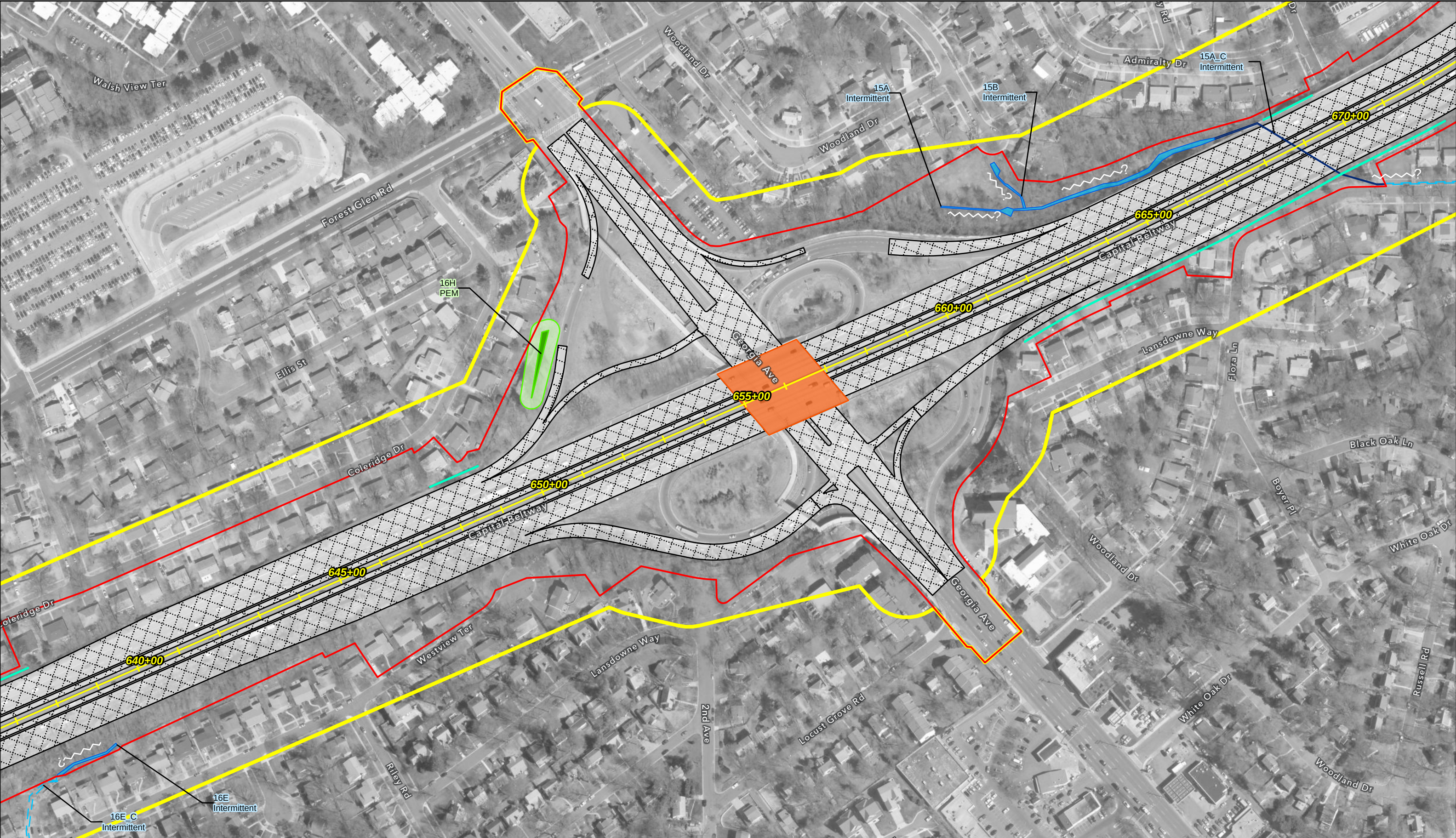
Wetland and Waterway Impact Plates

Impact Plate 15A

April 15, 2020

13 14 15 16

MANAGED LANES STUDY



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT9M.

0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 15B

April 15, 2020



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain	<i>Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.</i>	
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

Sligo Creek SVU

0 100 200 400

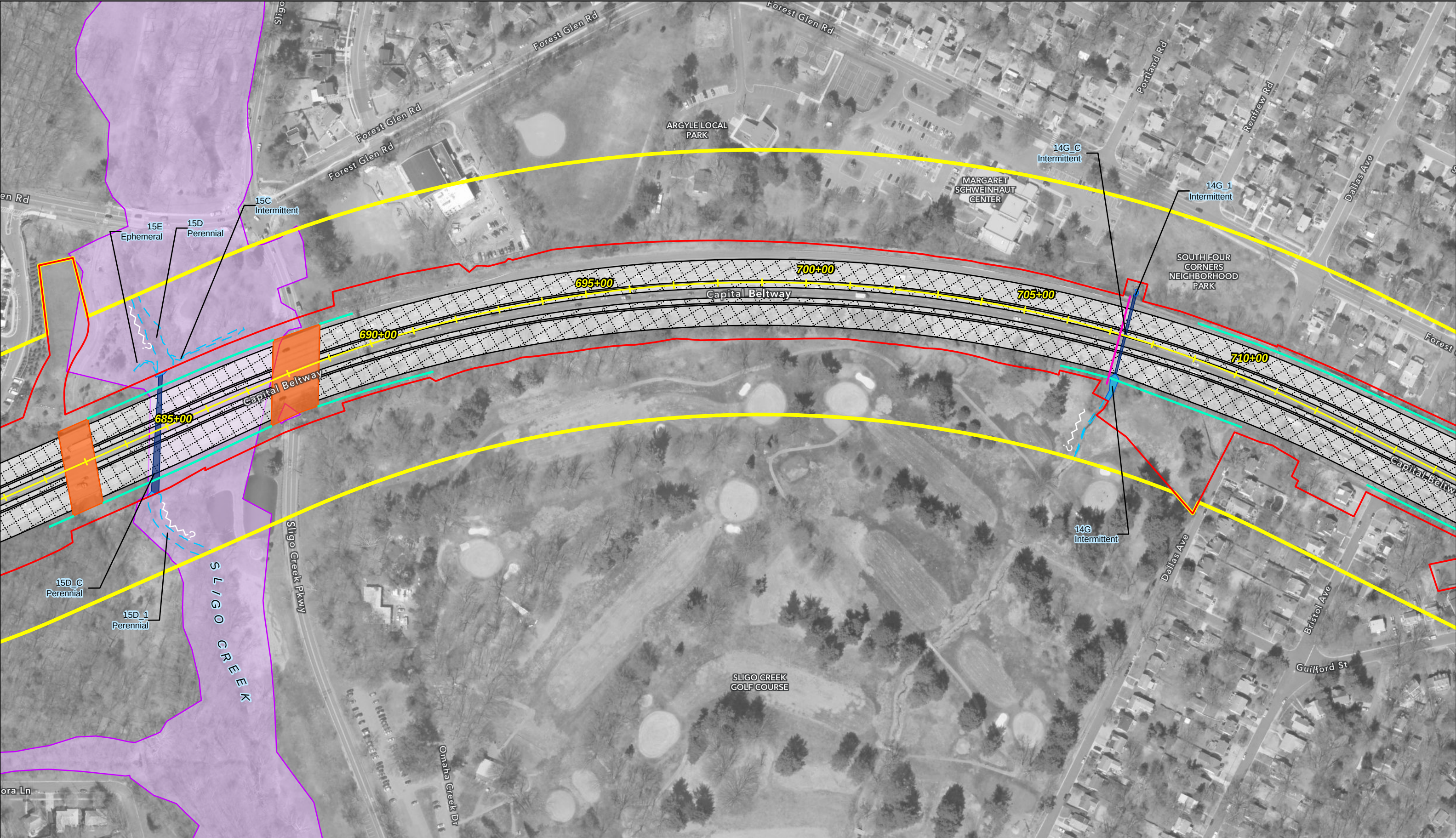
1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 16A

April 15, 2020

495 270 MANAGED LANES STUDY



Legend

Limit of Disturbance

Delineation Limits

Structure

Proposed Lanes

Culvert Impact

Waterway Impact

Wetland Impact

Wetland Buffer Impact

Wetland (No Impact)

Waterway (No Impact)

Wetland Buffer (No Impact)

Proposed Retaining Wall

FEMA 100YR Floodplain

Pending Delineation or Pending/Denied Access

Map Sheet

Matchline

New/Augmented Pipe/Culvert

Flow Direction

Note: The LOD on this plate applies to ALT9M.

0100200400

1 inch = 200 feet

Wetland and Waterway Impact Plates

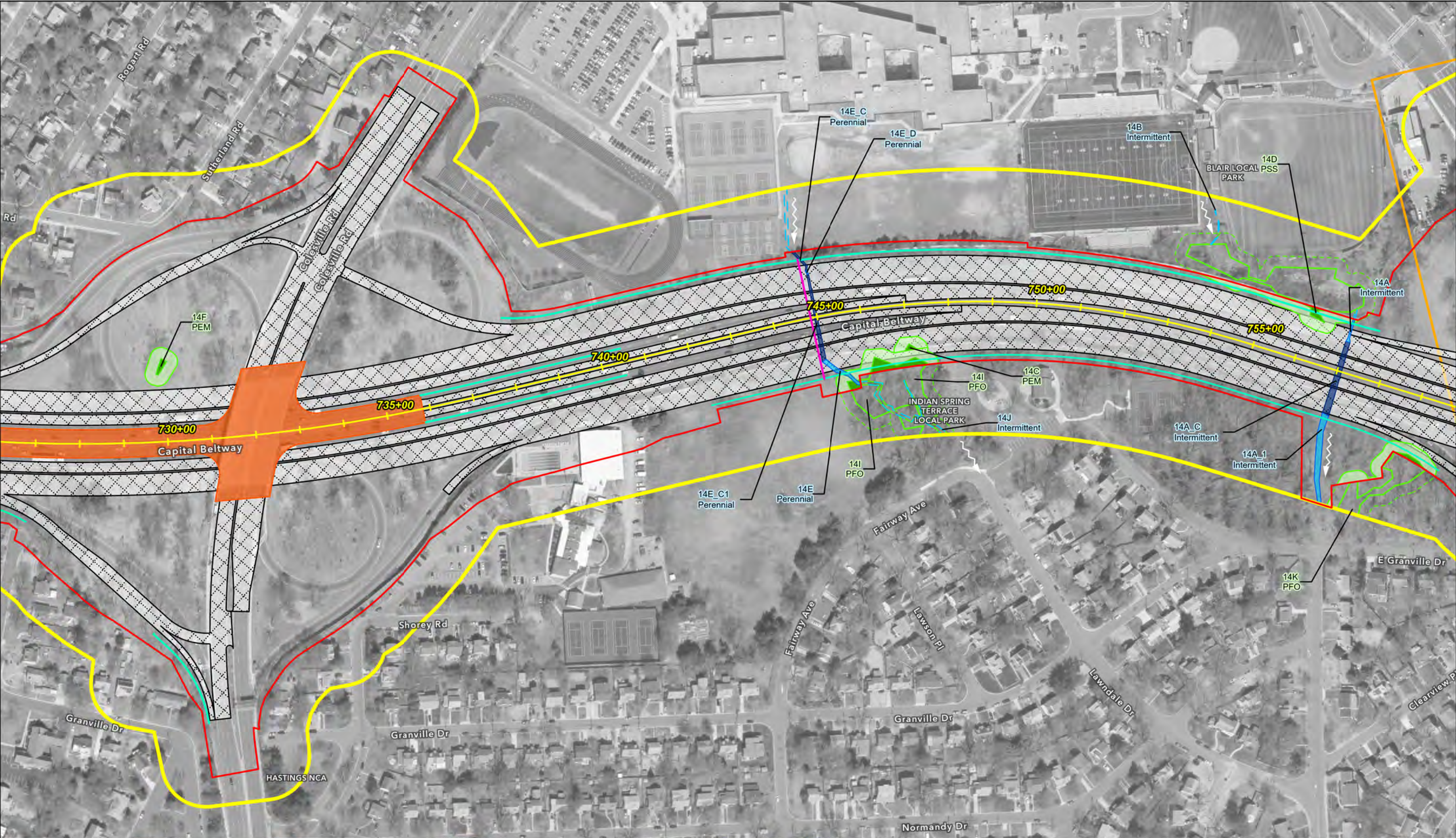
Impact Plate 16B

April 15, 2020

270

495

MANAGED LANES STUDY



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.

0 100 200 400

1 inch = 200 feet

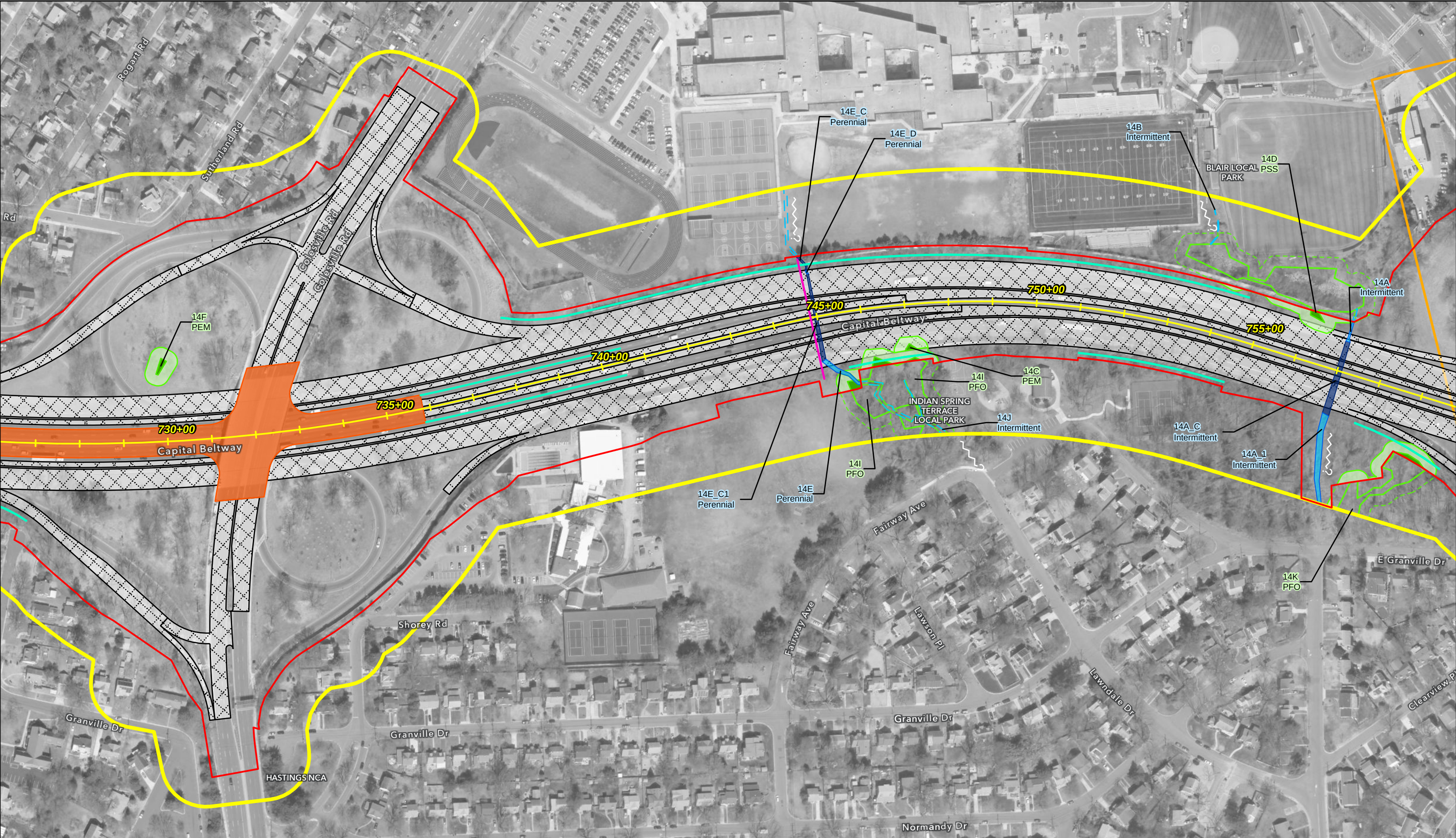
N
W E
S

Wetland and Waterway Impact Plates

Impact Plate 17A

April 15, 2020

Sligo Creek SVU



Legend

Limit of Disturbance

Delineation Limits

Structure

Proposed Lanes

Culvert Impact

Waterway Impact

Wetland Impact

Wetland Buffer Impact

Wetland (No Impact)

Waterway (No Impact)

Wetland Buffer (No Impact)

Proposed Retaining Wall

FEMA 100YR Floodplain

Pending Delineation or Pending/Denied Access

Map Sheet

Matchline

New/Augmented Pipe/Culvert

Flow Direction

Note: The LOD on this plate applies to ALT9M.

0

100

200

400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 17B

April 15, 2020

270

495

MANAGED LANES STUDY





Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain		
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

Note: The LOD on this plate applies to ALT9M.

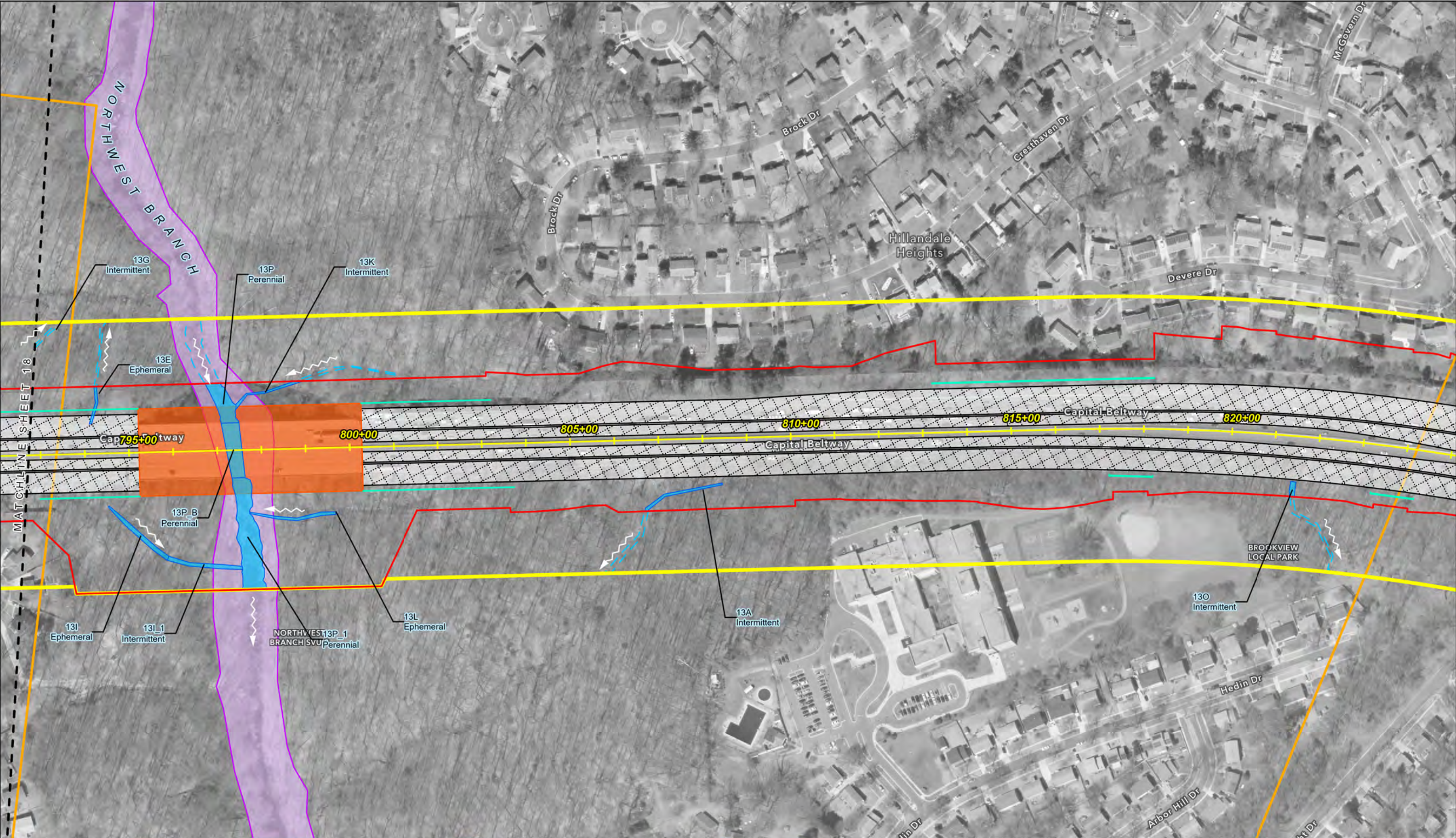
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 18B

April 15, 2020



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain	<i>Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.</i>	
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 19A

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Wetland and Waterway Impact Plates

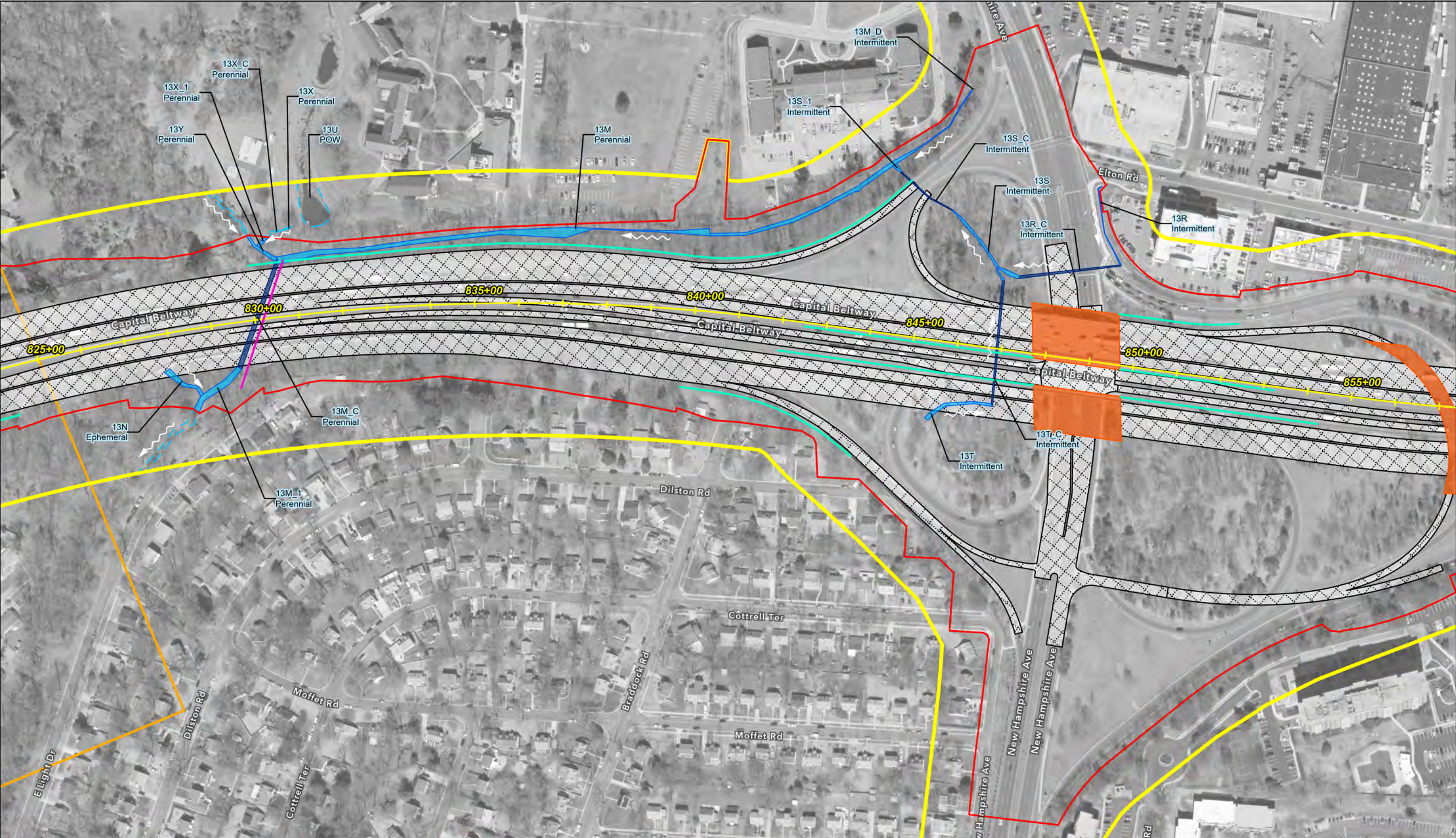
Impact Plate 19B

April 15, 2020

0 100 200 400

1 inch = 200 feet

Note: The LOD on this plate applies to ALT9M.



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain		
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.

0 100 200 400

1 inch = 200 feet

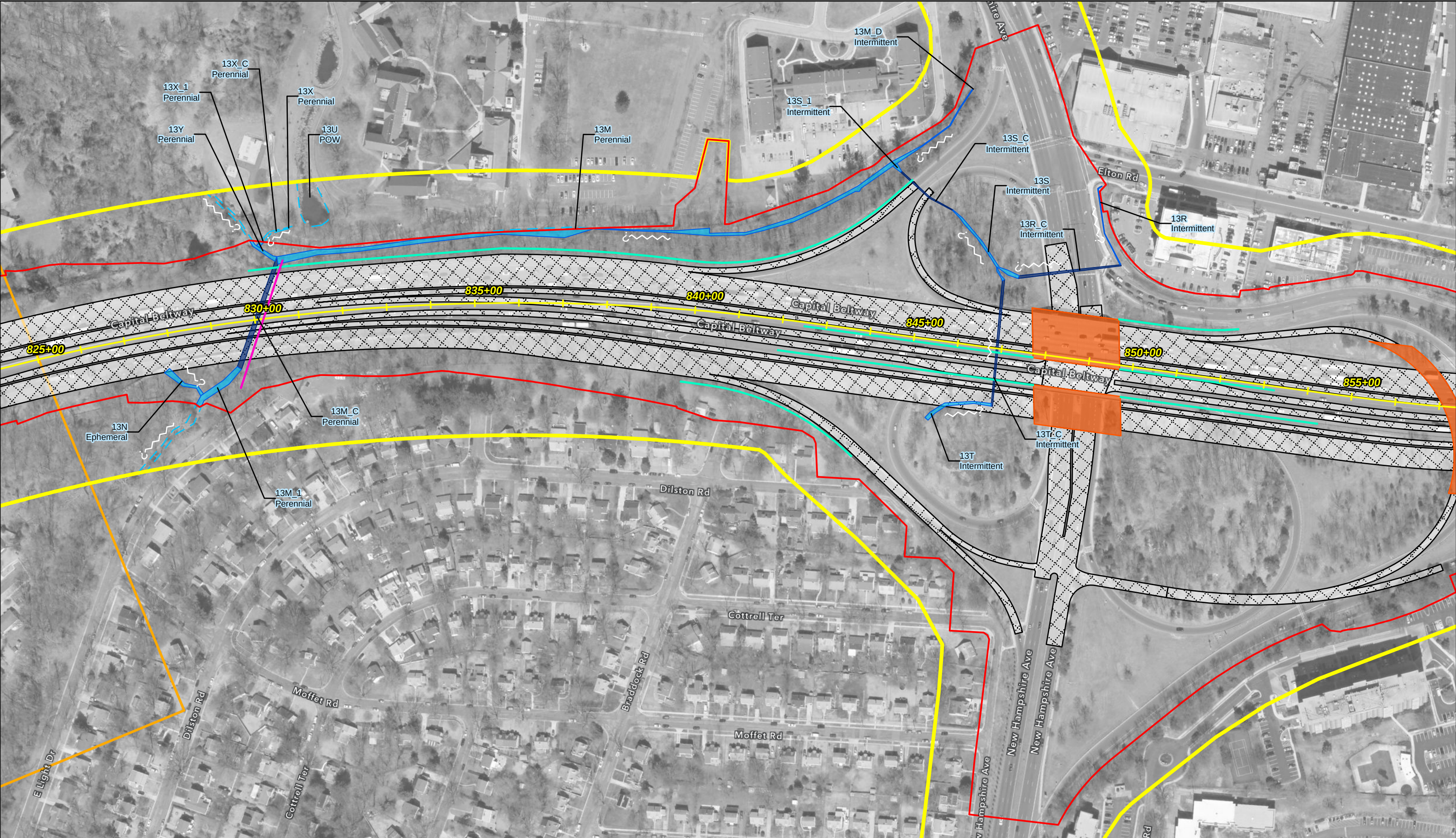
N
W E
S

Wetland and Waterway Impact Plates

Impact Plate 20A

April 15, 2020

MANAGED LANES STUDY



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)

- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access

- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert

Note: The LOD on this plate applies to ALT9M.

Flow Direction

0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 20B

April 15, 2020



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain		
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

Note: The LOD on this plate applies to ALT8, ALT9, ALT10, ALT13B, and ALT13C.

0 100 200 400

1 inch = 200 feet

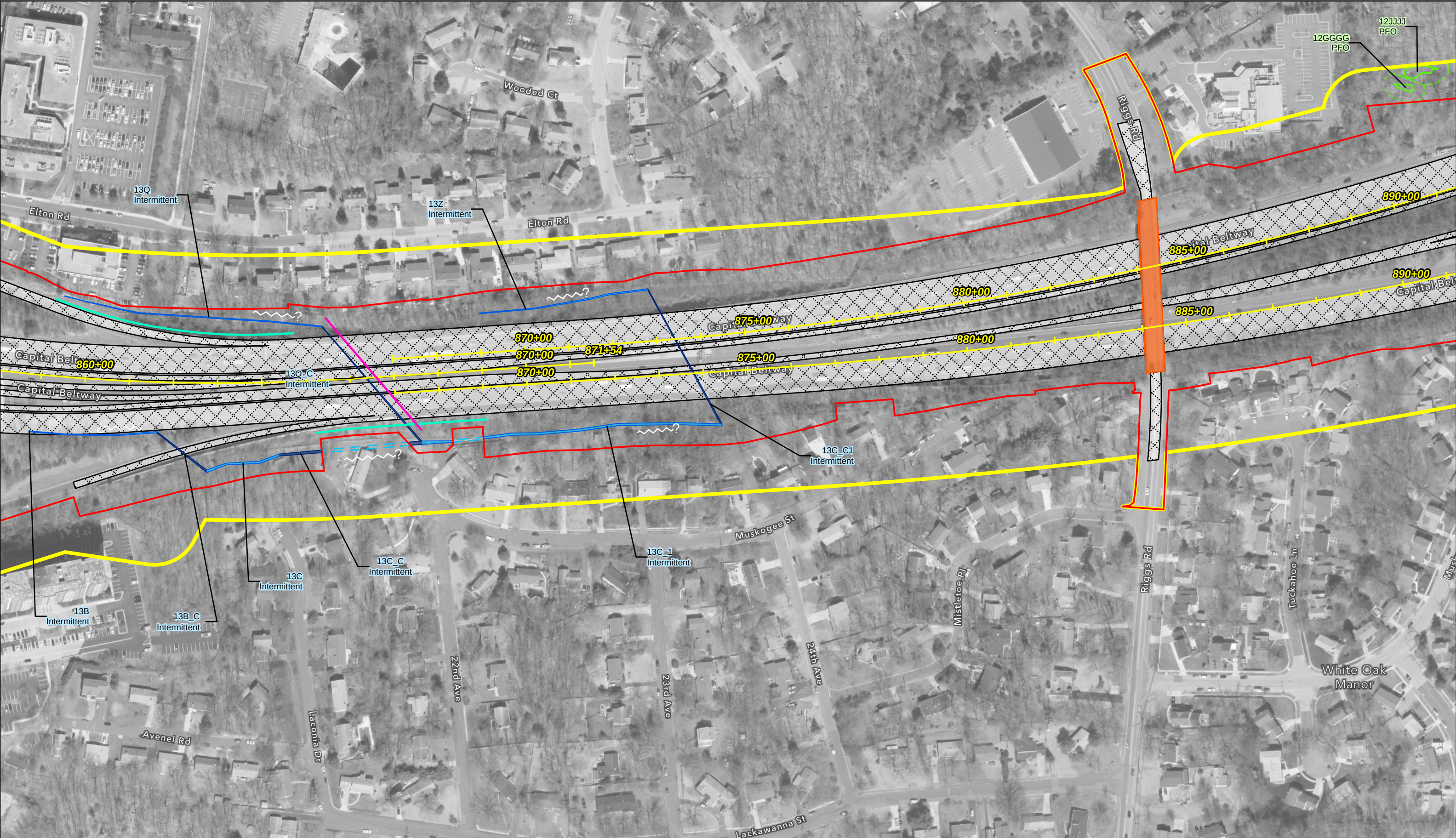
N
W E
S

Wetland and Waterway Impact Plates

Impact Plate 21A

April 15, 2020

MANAGED LANES STUDY



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain		
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

Note: The LOD on this plate applies to ALT9M.

0 100 200 400

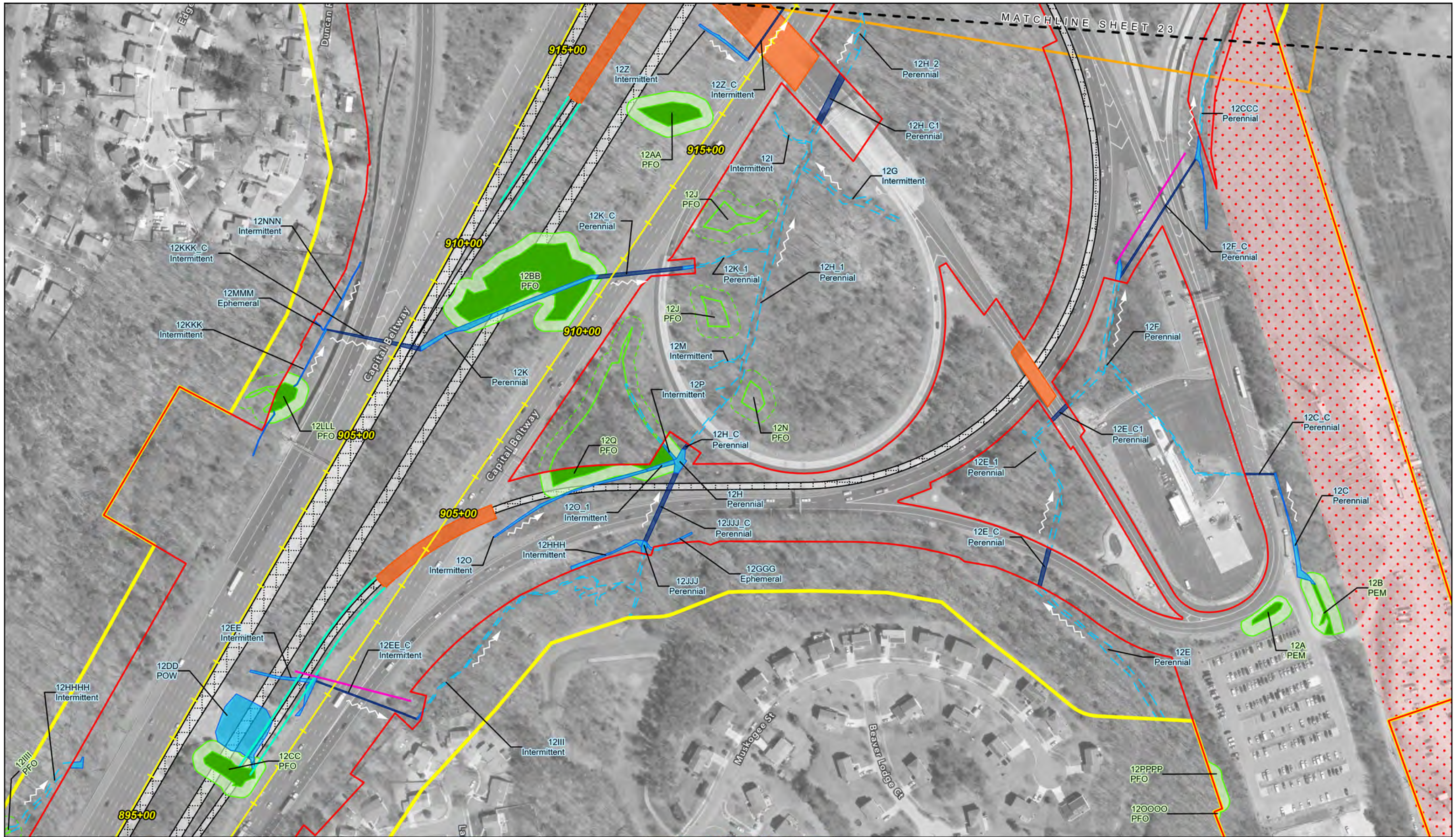
1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 21B

April 15, 2020

MANAGED LANES STUDY

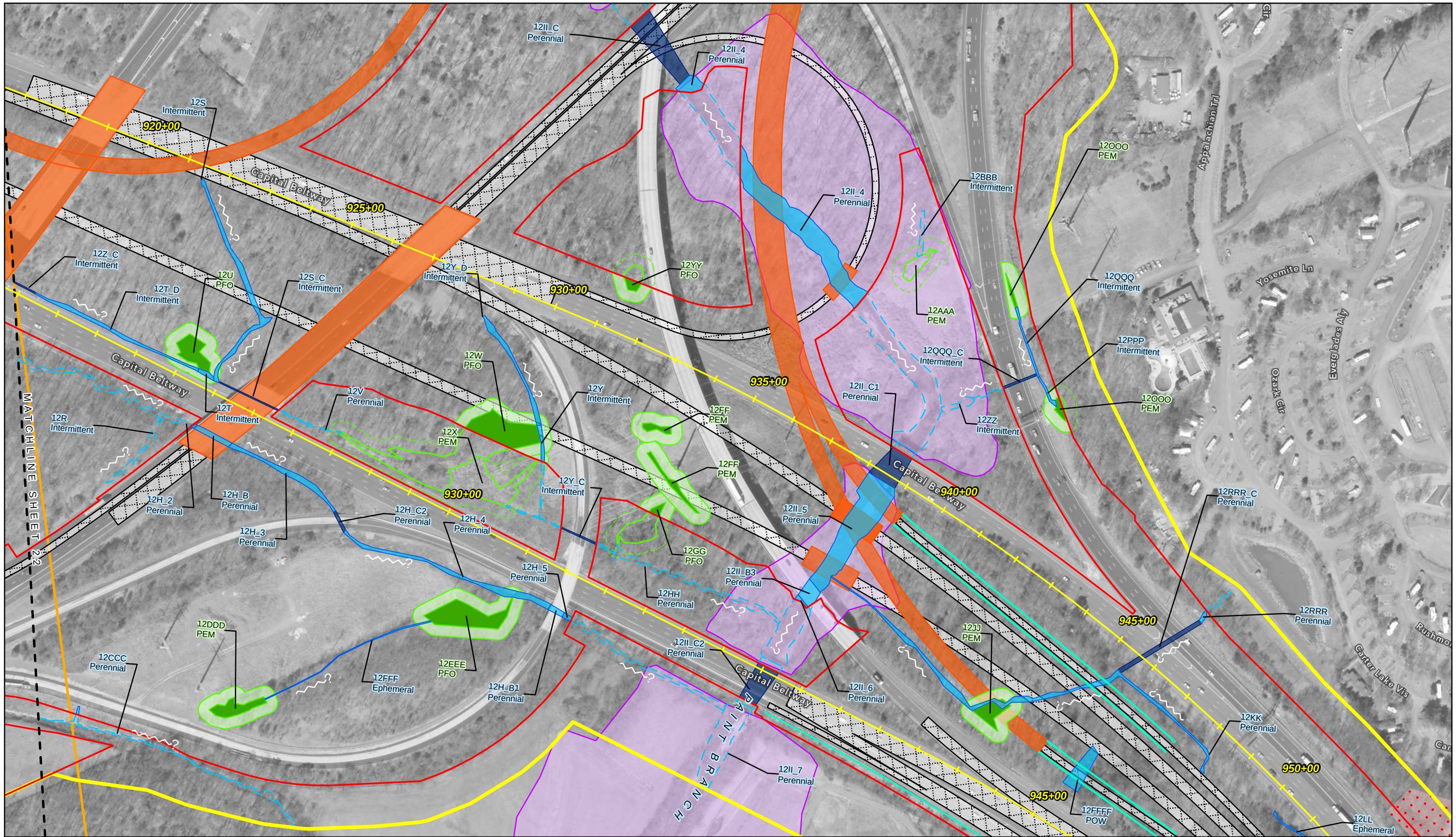


Legend	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Limit of Disturbance	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Delineation Limits	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Structure	Wetland Buffer Impact	FEMA 100YR Floodplain	Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.	
Proposed Lanes	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

Wetland and Waterway Impact Plates

Impact Plate 22A

April 15, 2020



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Wetland Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Buffer Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland (No Impact)	FEMA 100YR Floodplain	<i>Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.</i>	
		Pending Delineation or Pending/Denied Access		

0 100 200 400

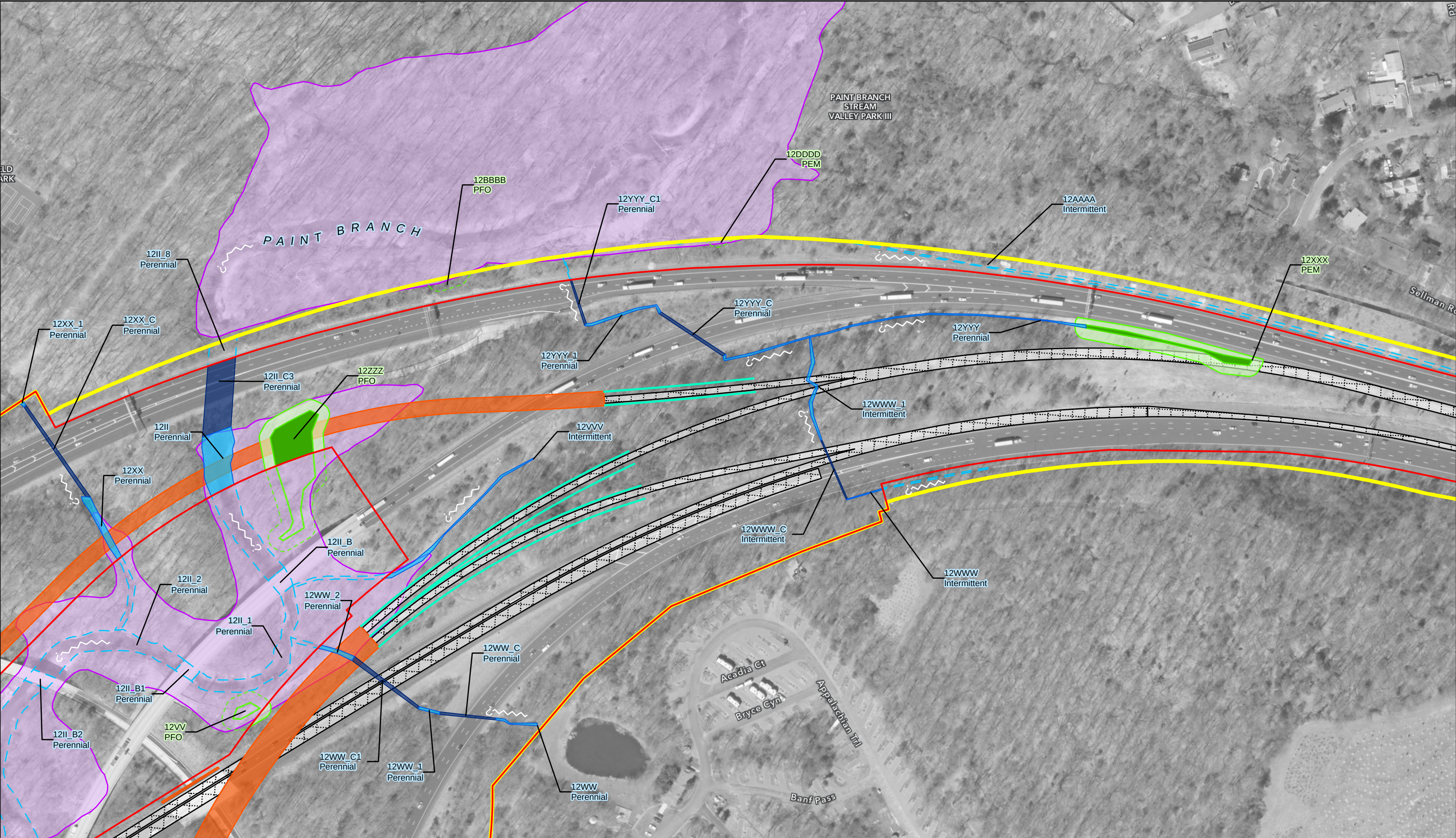
1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 23A

April 15, 2020

270
495 **MANAGED LANES STUDY**



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain	<i>Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.</i>	
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 24A

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

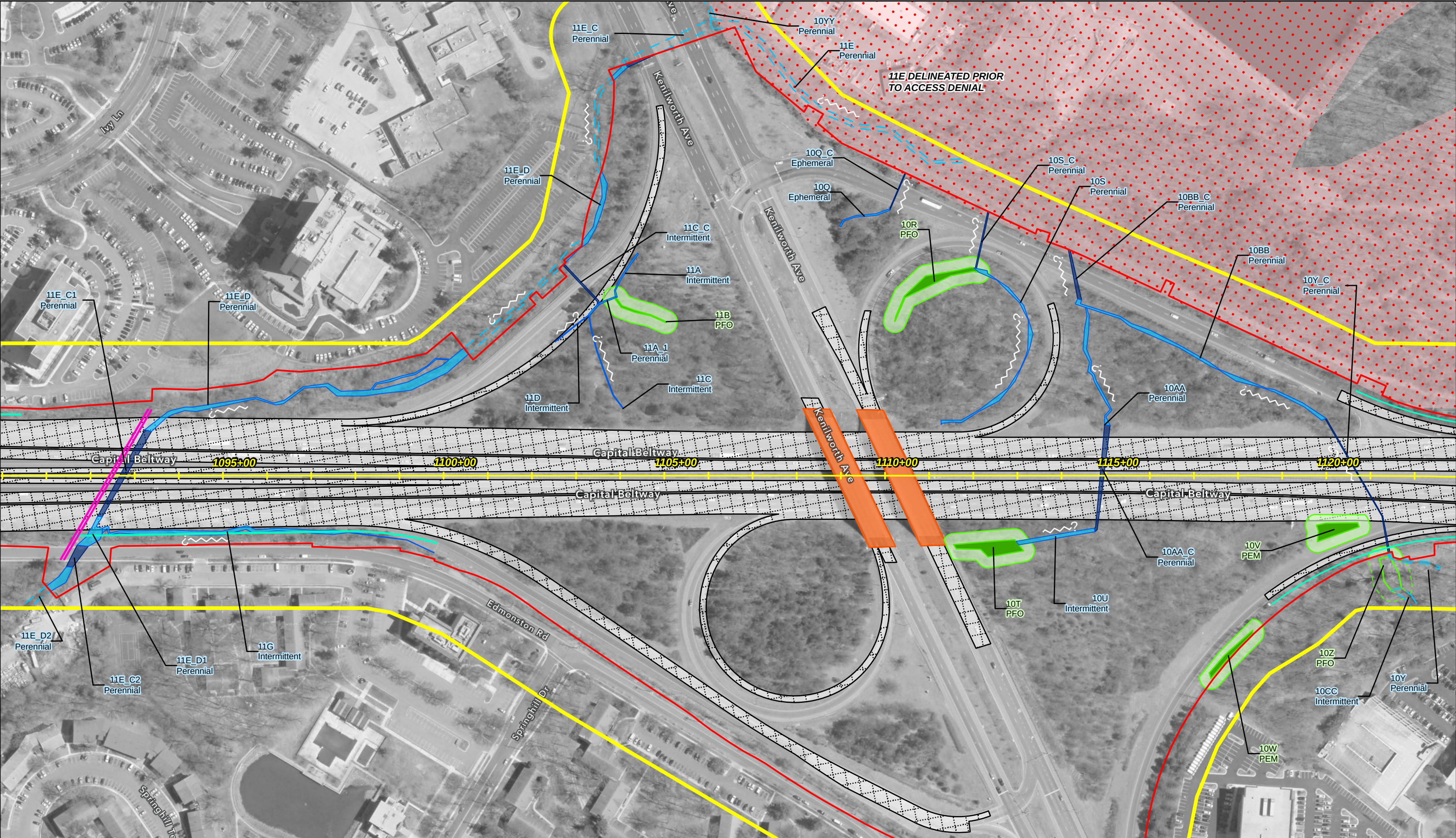
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 26A

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)

- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access

- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert

- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

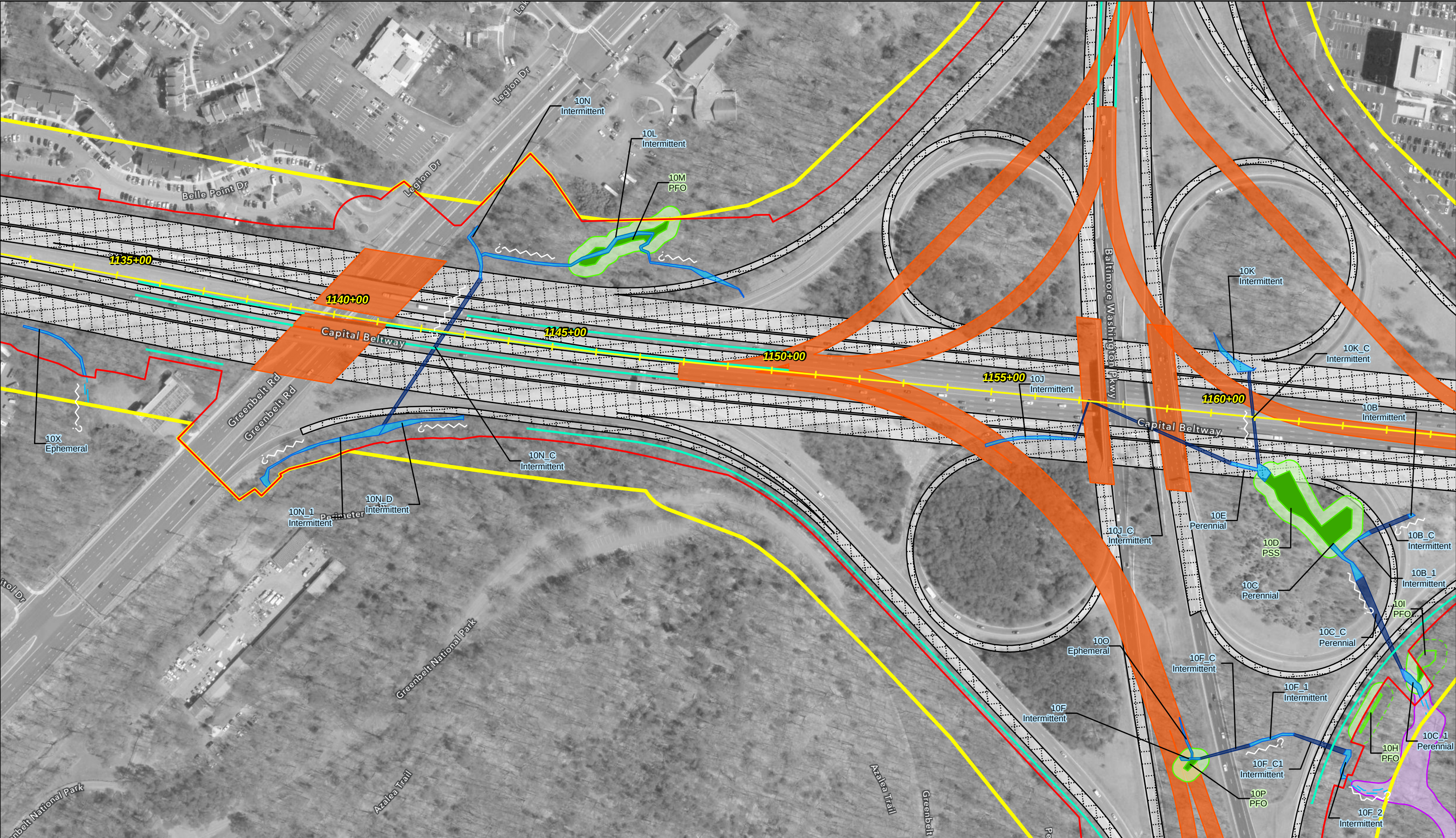
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 28A

April 15, 2020



Legend

Limit of Disturbance

Delineation Limits

Structure

Proposed Lanes

Culvert Impact

Waterway Impact

Wetland Impact

Wetland Buffer Impact

Wetland (No Impact)

Waterway (No Impact)

Wetland Buffer (No Impact)

Proposed Retaining Wall

FEMA 100YR Floodplain

Pending Delineation or Pending/Denied Access

Map Sheet

Matchline

New/Augmented Pipe/Culvert

Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

28

29

30

31

32

Greenbelt National Park

Greenbelt

Azalea Trail

Greenbelt National Park

Greenbelt

Azalea Trail

Greenbelt

0

100

200

400

1 inch = 200 feet

Wetland and Waterway Impact Plates

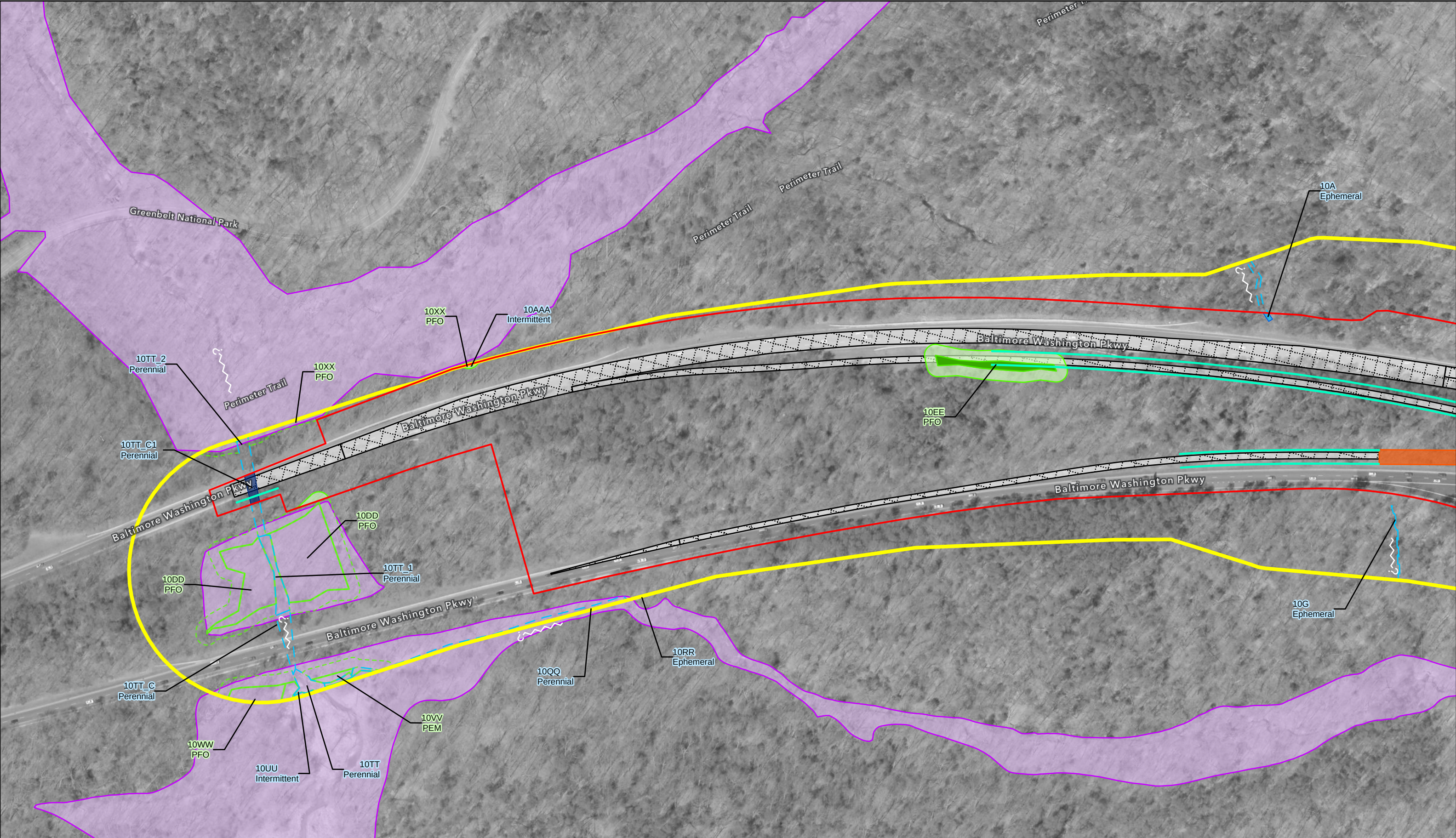
Impact Plate 29A

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MANAGED LANES STUDY

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Wetland and Waterway Impact Plates

Impact Plate 30A

April 15, 2020

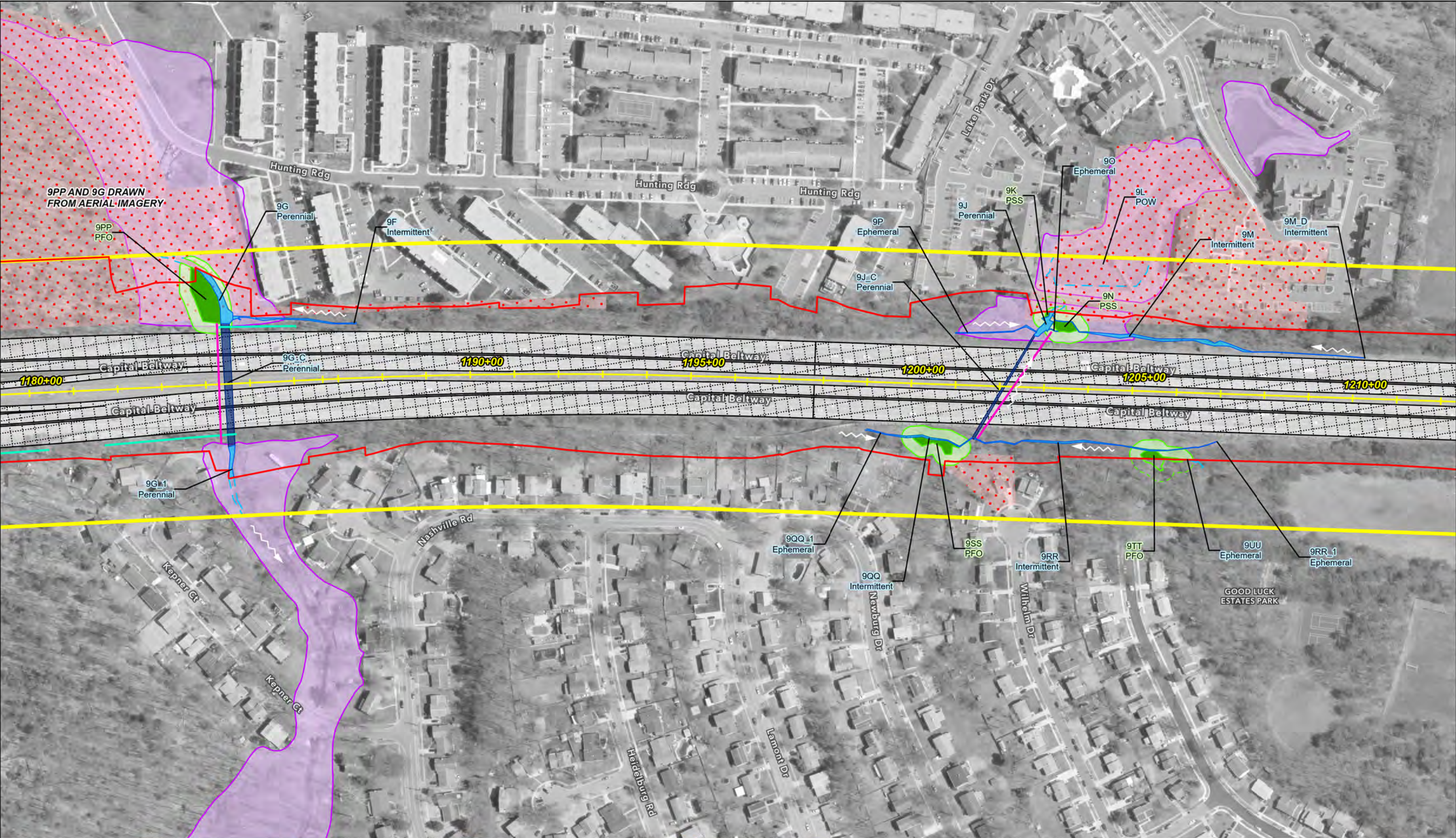
MANAGED LANES STUDY

495 270

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

0 100 200 400

1 inch = 200 feet



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Wetland Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Buffer Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland (No Impact)	FEMA 100YR Floodplain		
		Pending Delineation or Pending/Denied Access		

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

0 100 200 400

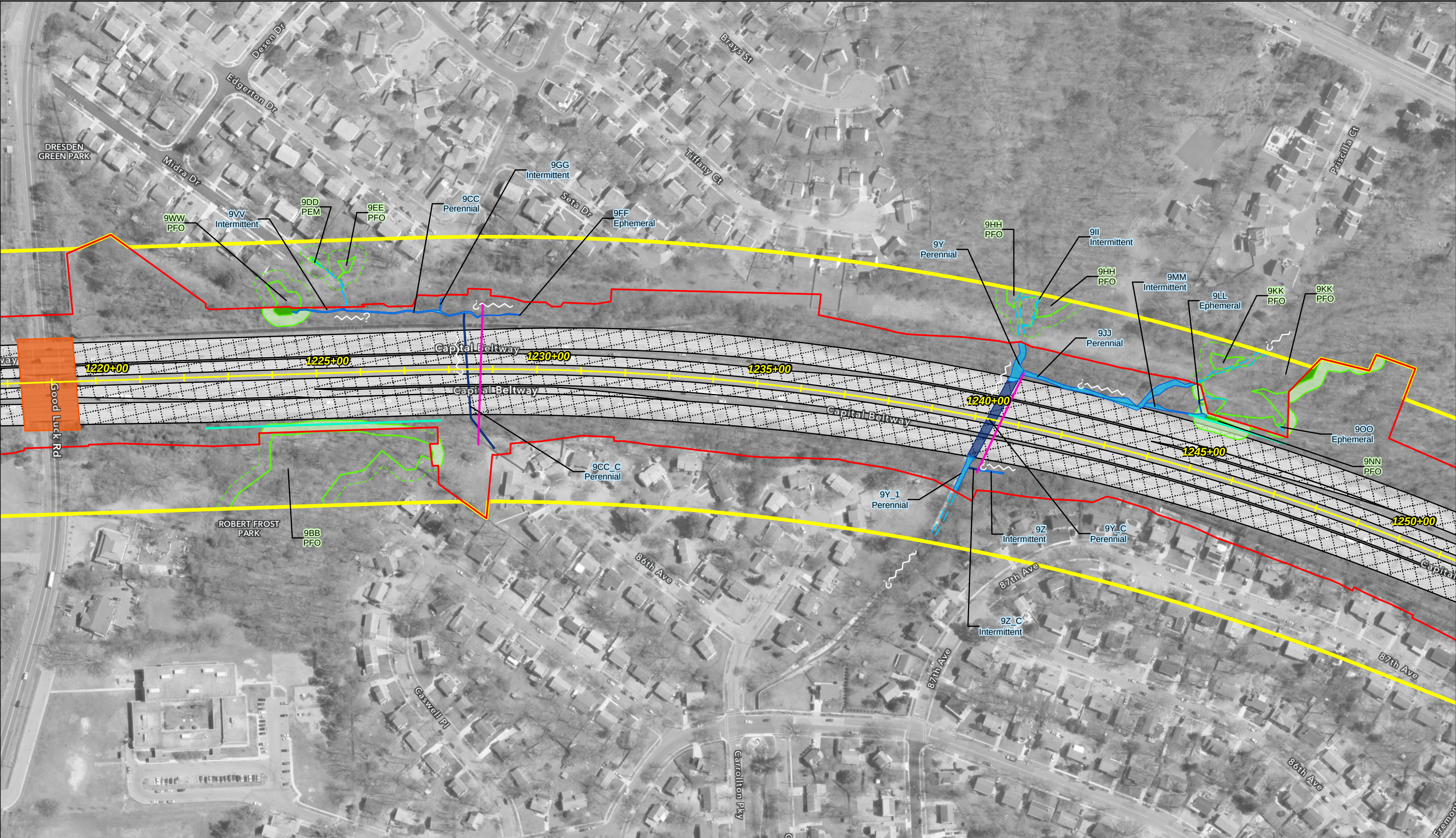
1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 32A

April 15, 2020

MANAGED LANES STUDY



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain	<i>Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.</i>	
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

0 100 200 400

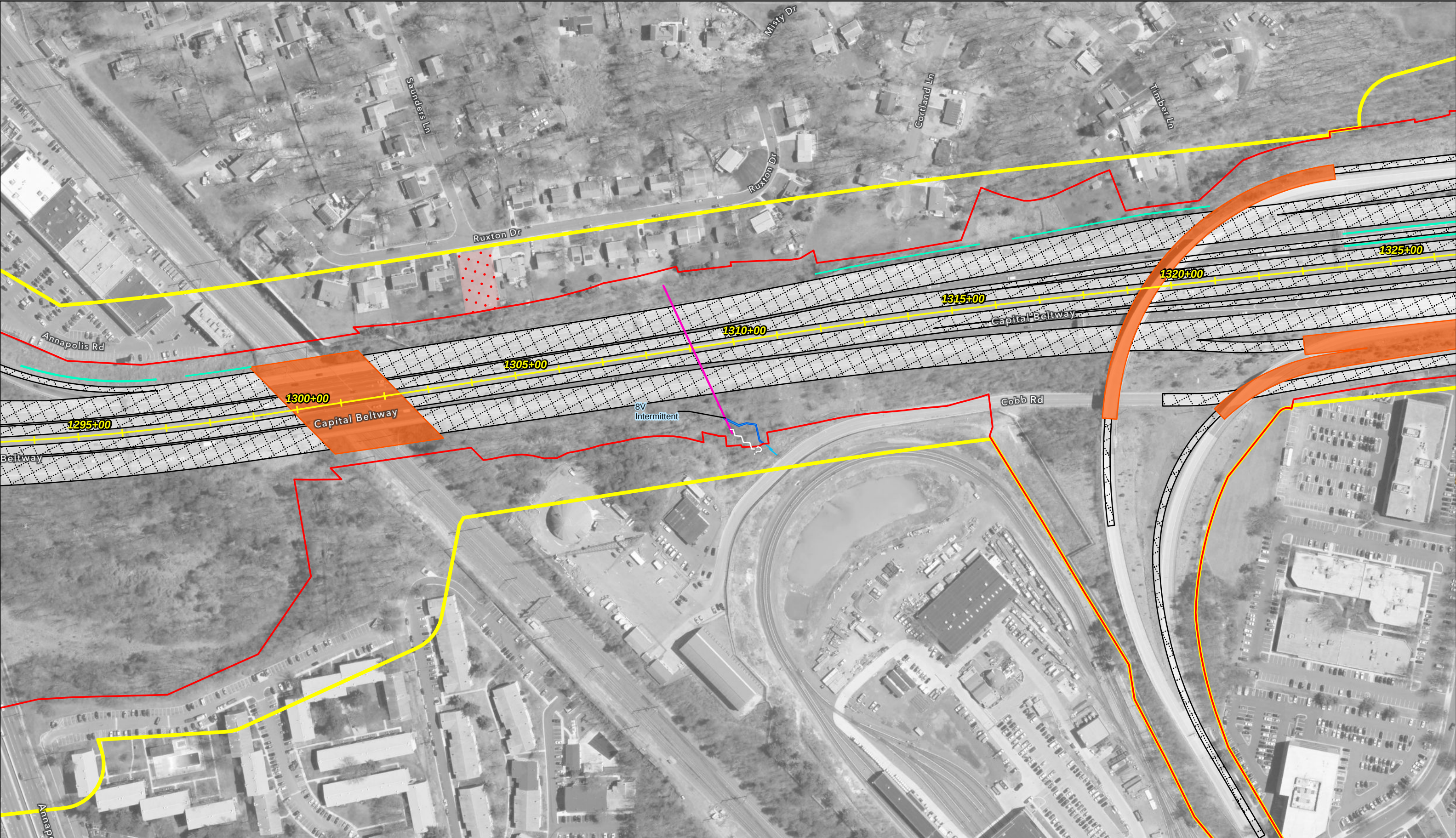
1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 33A

April 15, 2020

MANAGED LANES STUDY



Legend

Limit of Disturbance	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Delineation Limits	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Structure	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Proposed Lanes	Wetland Buffer Impact	FEMA 100YR Floodplain	<i>Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.</i>	
	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

0 100 200 400

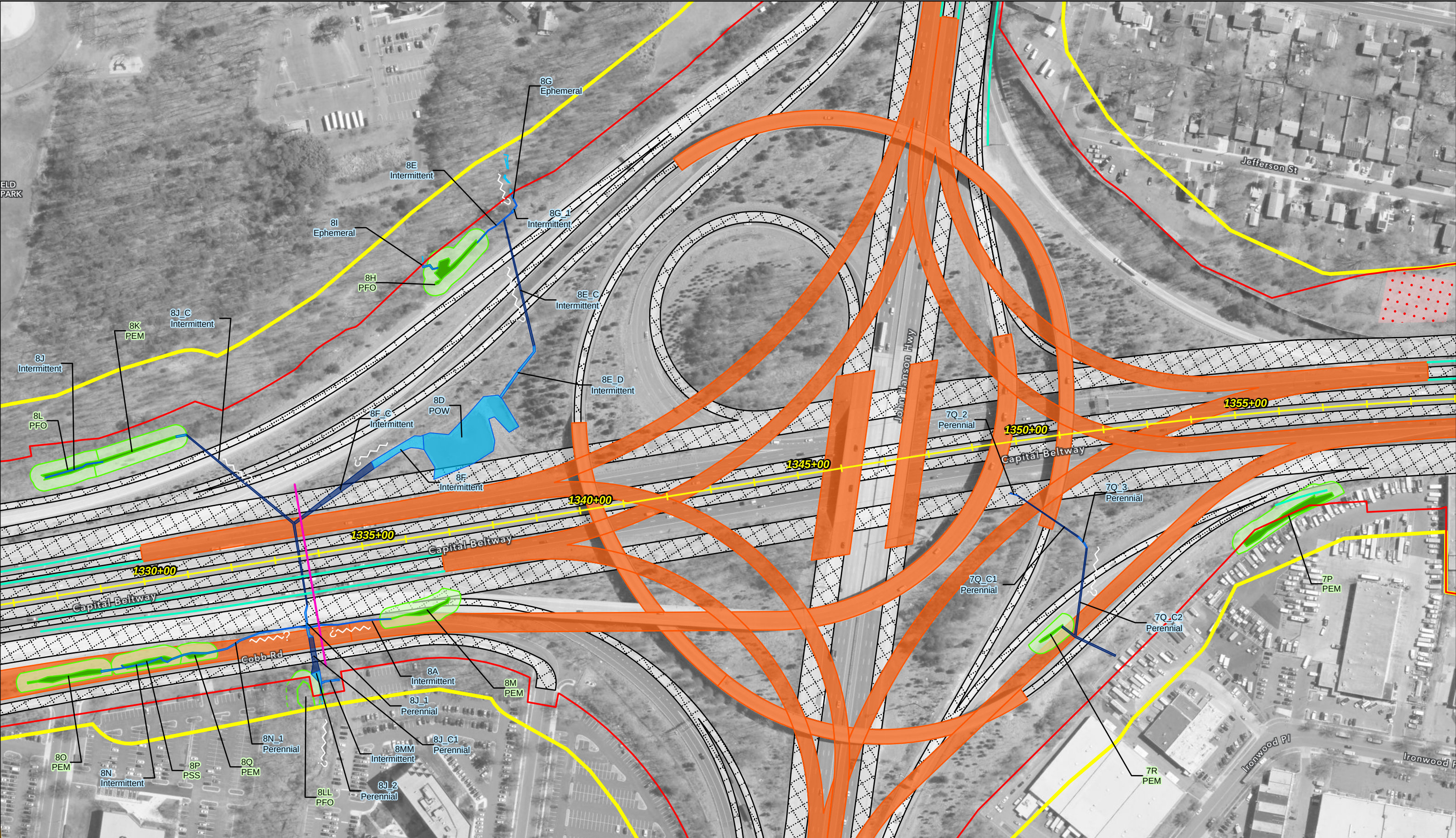
1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 35A

April 15, 2020

MANAGED LANES STUDY



Legend

Limit of Disturbance

Delineation Limits

Structure

Proposed Lanes

Culvert Impact

Waterway Impact

Wetland Impact

Wetland Buffer Impact

Wetland (No Impact)

Waterway (No Impact)

Wetland Buffer (No Impact)

Proposed Retaining Wall

FEMA 100YR Floodplain

Pending Delineation or Pending/Denied Access

Map Sheet

Matchline

New/Augmented Pipe/Culvert

Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

0

100

200

400

1 inch = 200 feet

Wetland and Waterway Impact Plates

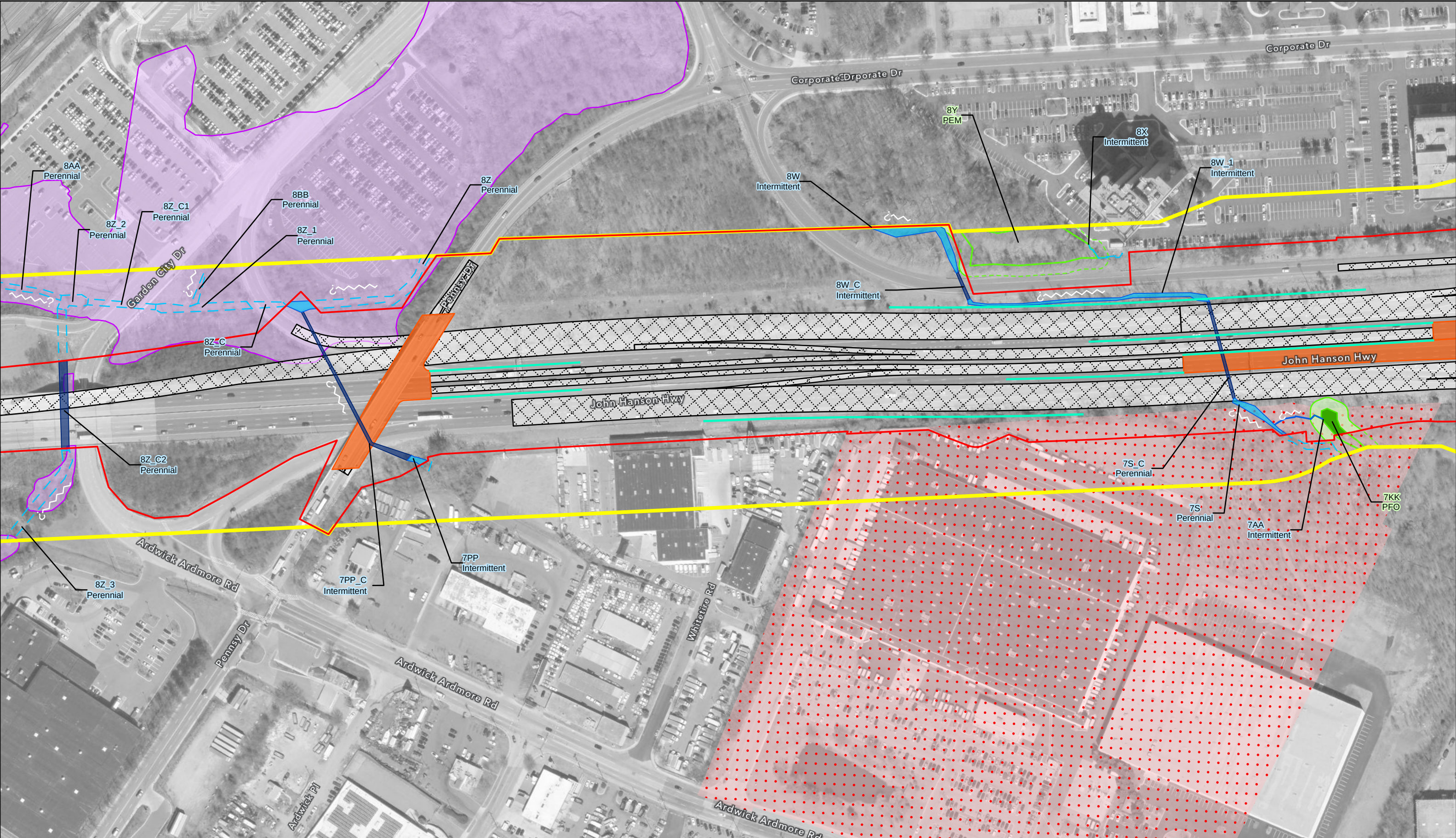
Impact Plate 36A

270

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MANAGED LANES STUDY

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

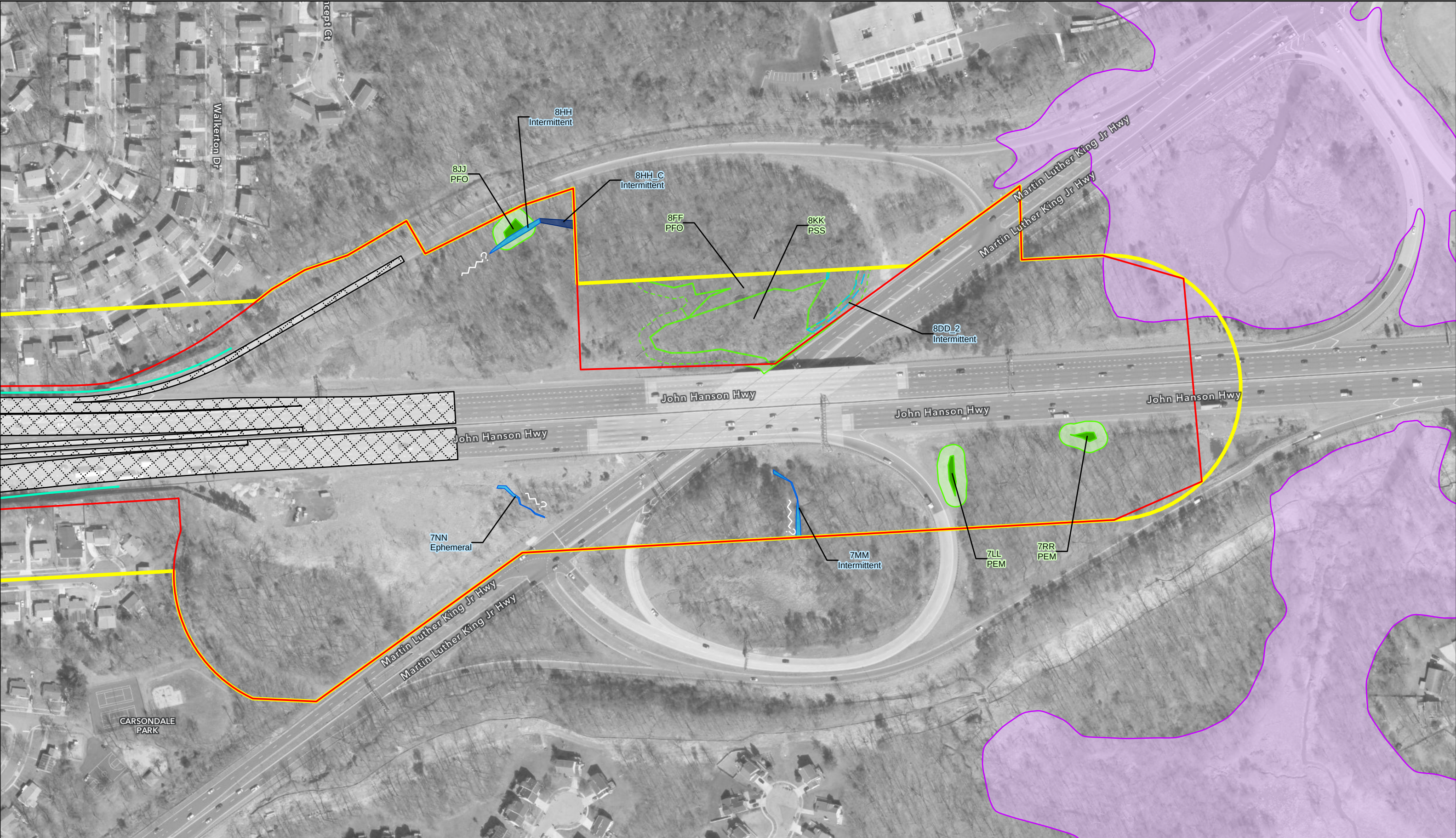
0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 37A

April 15, 2020



Legend	Culvert Impact	Waterway (No Impact)	Map Sheet	Flow Direction
Limit of Disturbance	Waterway Impact	Wetland Buffer (No Impact)	Matchline	
Delineation Limits	Wetland Impact	Proposed Retaining Wall	New/Augmented Pipe/Culvert	
Structure	Wetland Buffer Impact	FEMA 100YR Floodplain		
Proposed Lanes	Wetland (No Impact)	Pending Delineation or Pending/Denied Access		

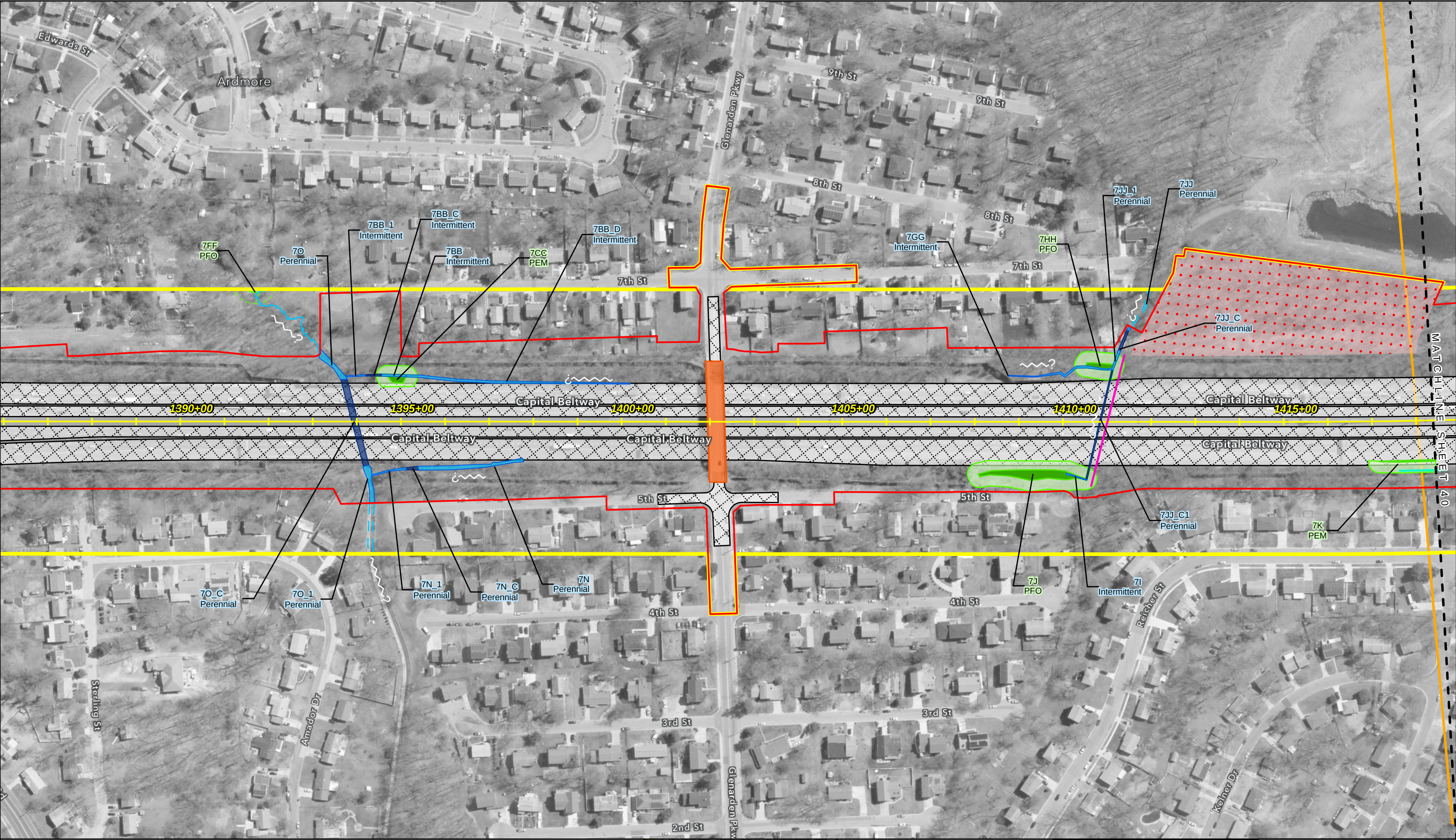
Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 38A

April 15, 2020



Legend

- Limit of Disturbance
- Delineation Limits
- Structure
- Proposed Lanes
- Culvert Impact
- Waterway Impact
- Wetland Impact
- Wetland Buffer Impact
- Wetland (No Impact)
- Waterway (No Impact)
- Wetland Buffer (No Impact)
- Proposed Retaining Wall
- FEMA 100YR Floodplain
- Pending Delineation or Pending/Denied Access
- Map Sheet
- Matchline
- New/Augmented Pipe/Culvert
- Flow Direction

Note: The LOD on this plate applies to ALT8, ALT9, ALT9M, ALT10, ALT13B, and ALT13C.

0 100 200 400

1 inch = 200 feet

Wetland and Waterway Impact Plates

Impact Plate 39A

April 15, 2020