

Maine Turnpike Southern Toll Plaza Replacement Study



Draft Phase I Report for submittal to the **U.S. Army Corps of Engineers**

Presented to
Maine Turnpike Authority
November 5, 2009

Maine Turnpike Southern Toll Plaza Replacement Study



Purpose of today's meeting

- 1. Deliver the Draft Phase I Report**
- 2. Present our findings regarding alternate locations**
- 3. Present our recommendations**

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Phase I Report Index

**Part 1 – Introduction and
Overview**

Part 2 – Existing Site Evaluation

Part 3 – Alternate Site Evaluation

Part 4 – Site Screening

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Agenda

- 1. Overview of Alternatives Evaluation**
- 2. Brief Review of**
 - A. Design Guidelines**
 - B. Review Project Purpose and Need**
 - C. Existing Conditions and Safety Concerns**
 - D. Tolling Strategies**
 - E. Proposed Toll Plaza Sizing**
- 3. Existing Site Evaluation and Recommendations**
- 4. Alternate Site Identification & Screening**
- 5. Phase 1 Recommendation**

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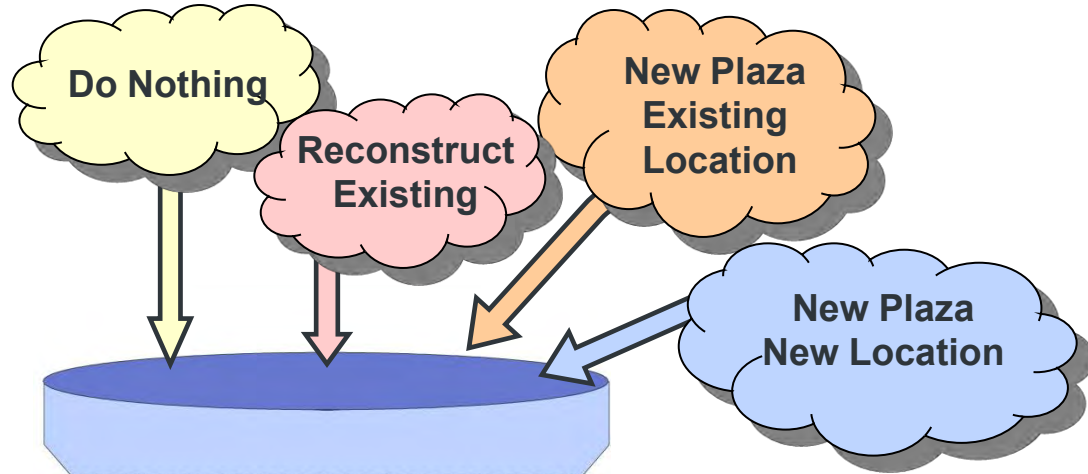
Alternatives Evaluation

1. Followed USACE Highway Methodology
2. Followed Section 404 of Clean Water Act
3. Followed DEP Natural Resources Protection Act
4. Objective of the evaluation with respect to resources is:
 - A. Avoidance of impacts
 - B. Minimization of impacts
 - C. Compensation for unavoidable impacts

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Project Purpose & Need Concurrence



Alternatives
(Site Identification & Screening)

Phase 1:
Avoidance then
Minimization

Corps' LEDPA

Phase 2:
Avoidance,
Minimization &
Compensation

Permitting

PREFERRED
ALTERNATIVE

HNTB

Maine Turnpike Southern Toll Plaza Replacement Study



Where
are we
today?

1. The Maine Turnpike Authority identified a need and authorized a feasibility study to replace/reconstruct the York Toll Plaza.
2. MTA resolved to proceed forward with the implementation of highway speed tolling (now referred to as Open Road Tolling)
3. The preliminary study yielded: 1) existing site alternatives would not meet basic engineering guidelines or environmental reasonableness, 2) 16 alternative sites were identified as meeting basic criteria and environmental reasonableness
4. MTA hosted the York Selectboard to hear thoughts and concerns.
5. MTA directed, at the request of the York Selectboard, HNTB to re-investigate any possible options at the existing site
6. *HNTB completed the Existing Site Evaluation Report and presented it June 16, 2009 to the Authority and the York Selectboard.*
7. *MTA approved the Existing Site Evaluation Recommendations and directed HNTB to resume investigation for potential Alternate Sites.*
8. *HNTB has completed the Alternate Site Identification and Screening and has developed the Phase I report for presentation today.*

HNTB

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Review Design Guidelines

**Same Design Guidelines and Criteria Applied to
Both Existing Site and Alternate Sites
Evaluations**

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Maine Turnpike Authority utilizes nationally recognized engineering guidelines.

1. “Geometric Design of Highways and Streets (AASHTO, 2004)
2. “Manual on Uniform Traffic Control Devices” - MUTCD (Federal Highway Administration, 2003)
3. “Roadside Design Guide” (AASHTO, 2006)
4. “State of the Practice and Recommendations on Traffic Control Strategies at Toll Plazas” (FHWA, 2006)

**Nationally
Published
Guidelines**



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Manual on Uniform Traffic Control Devices (MUTCD):

Excerpt from Section 1A.01 Purpose of Traffic Control Devices: „The purpose of traffic control devices, as well as the principles for their use, is to promote highway safety and efficiency by providing for the orderly movement of all road users on streets and highways throughout the Nation.”

State of the Practice and Recommendations on Traffic Control Strategies at Toll Plazas:

Excerpt from page 1: “The goal is to achieve a consistent strategy for handling potential points of conflict, controlling flow of various vehicle types and conveying information at toll plazas so that safety and operations are enhanced, better efficiency and economy of design are achieved, and motorist recognition and comprehension are improved.”

**Nationally
Published
Guidelines**

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Nationally Published Guidelines

A common theme among these guidelines, as it relates to their purpose, is that *uniformity of design practices and procedures is a key factor in the safety of travelers* on our Nation's highways. As well, operational efficiency of our roadway network can be improved through the use of these national guidelines and best practices. Another important result of the application of these guidelines is the efficient use of resources and the positive impact it has on our environment.

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Nationally
Published
Guidelines

Basic Design Criteria for Toll Plazas

- 1. Separation from Interchanges:**
 - A. Minimum 1 mile between interchange and center of toll plaza.
- 2. Separation from overhead bridges:**
 - A. Minimum 2500' between overhead bridge and center of toll plaza.
 - B. Desirably not within footprint (approx 8000')
- 3. Horizontal Tangent:**
 - A. Straight stretch of approximately 8,000 feet
- 4. Crest vertical curve:**
 - A. Center of straight stretch (toll plaza) at or near the top of a small gradual hill.

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Review Project Purpose and Need

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Purpose and Need

Age + Location + Traffic Growth = Plaza Problems

1. Increasingly unsafe for motorists
2. Increasingly unsafe for employees
3. Unnecessary noise
4. Increasing maintenance costs
5. Inability to accommodate new traffic flows and up-to-date tolling technology

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Purpose and Need

Plaza Lifespan

1. York Toll Plaza built in 1969
2. Planned life thru 1982 (13+/- years)
3. Structural lifespan = 25 years
4. Current age of plaza = 40 years

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Existing Conditions and Safety Concerns

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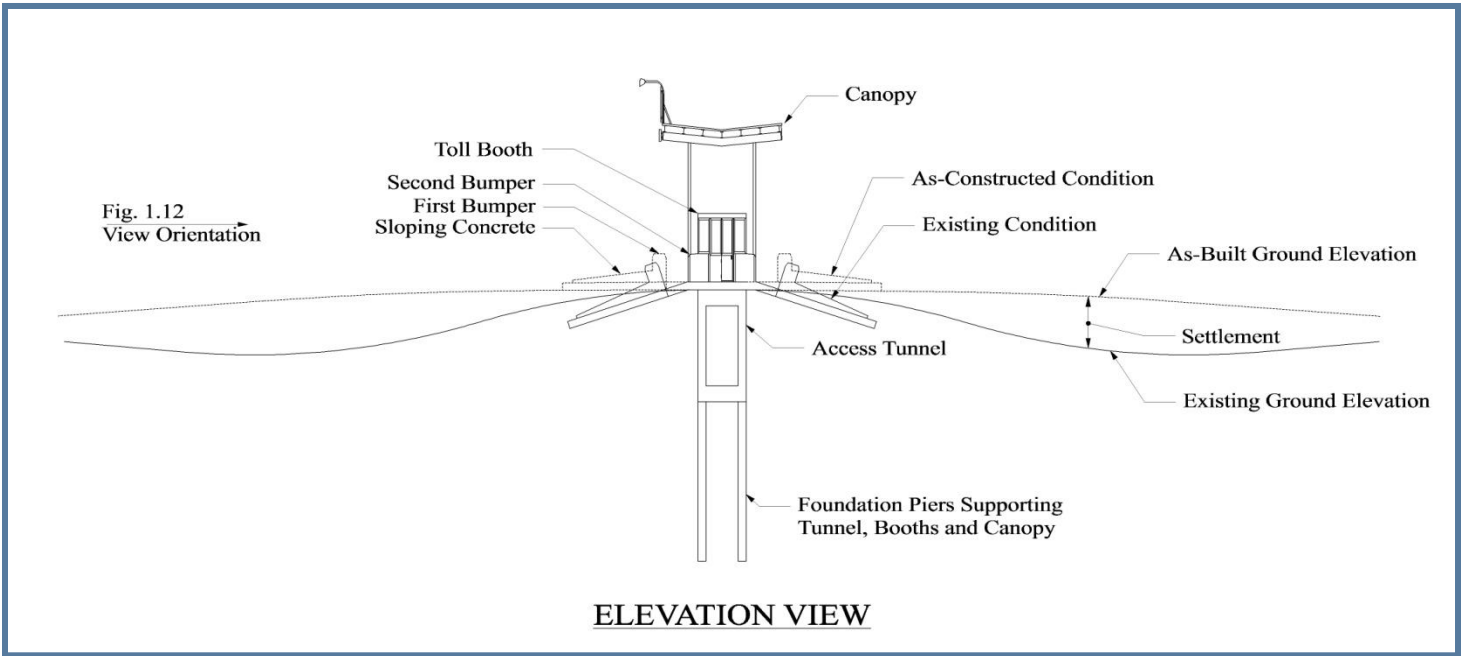


Existing Conditions & Concerns

Conditions and Deficiencies at York Toll Plaza

1. Safety Concerns and Issues
2. Booths, Tunnel and Canopy
3. Plaza (Area) Design
4. Operations (Traffic Flow)
5. Tolling Technology

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Review Tolling Strategies

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Tolling Strategies

Toll Collection Strategy

1. Collection Strategy

- A. Split Plazas
- B. One-way Tolling

2. Collection Technology

- A. Booth (Stop and Slow Speed – Existing)
- B. All Electronic
- C. Open Road (also known as Highway Speed)

3. Maine Turnpike Authority has adopted Open Road Tolling for the Replacement York Toll Plaza

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Tolling Strategies

Open Road Tolling (formerly Highway Speed)

1. EZPass Customers pay tolls at 55-65mph – *less congestion – increased capacity – better service*
2. Cash customers are physically separated from highway speed customers – *increased safety*
3. Addresses Existing and Future Traffic Demand – *increased capacity – customer service - safety*
4. 58% of traffic use E-ZPass at York Plaza
5. Over 80% of York Truck Traffic use E-ZPass
6. Reduced Noise Events
 - A. Engine brakes and heavy acceleration
 - B. Rumble strips
 - C. Similar amount of noise as mainline today

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Open
Road
Tolling

MTA Decision to Implement Open Road Tolling



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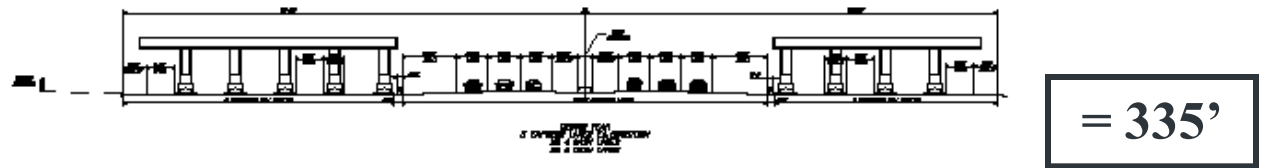
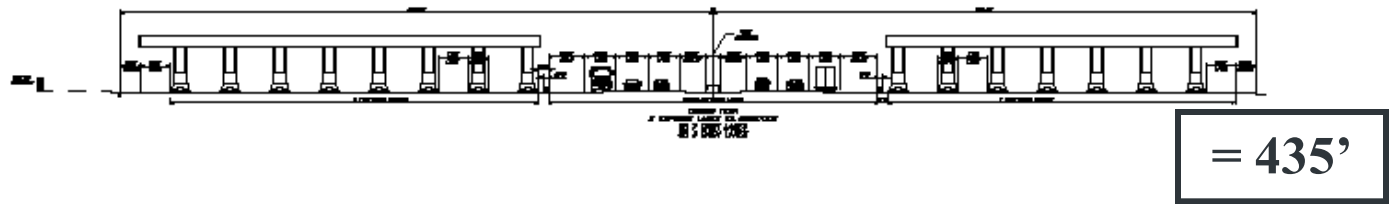


Proposed Toll Plaza Sizing

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Plaza Sizing



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Existing Site Evaluation and Recommendations

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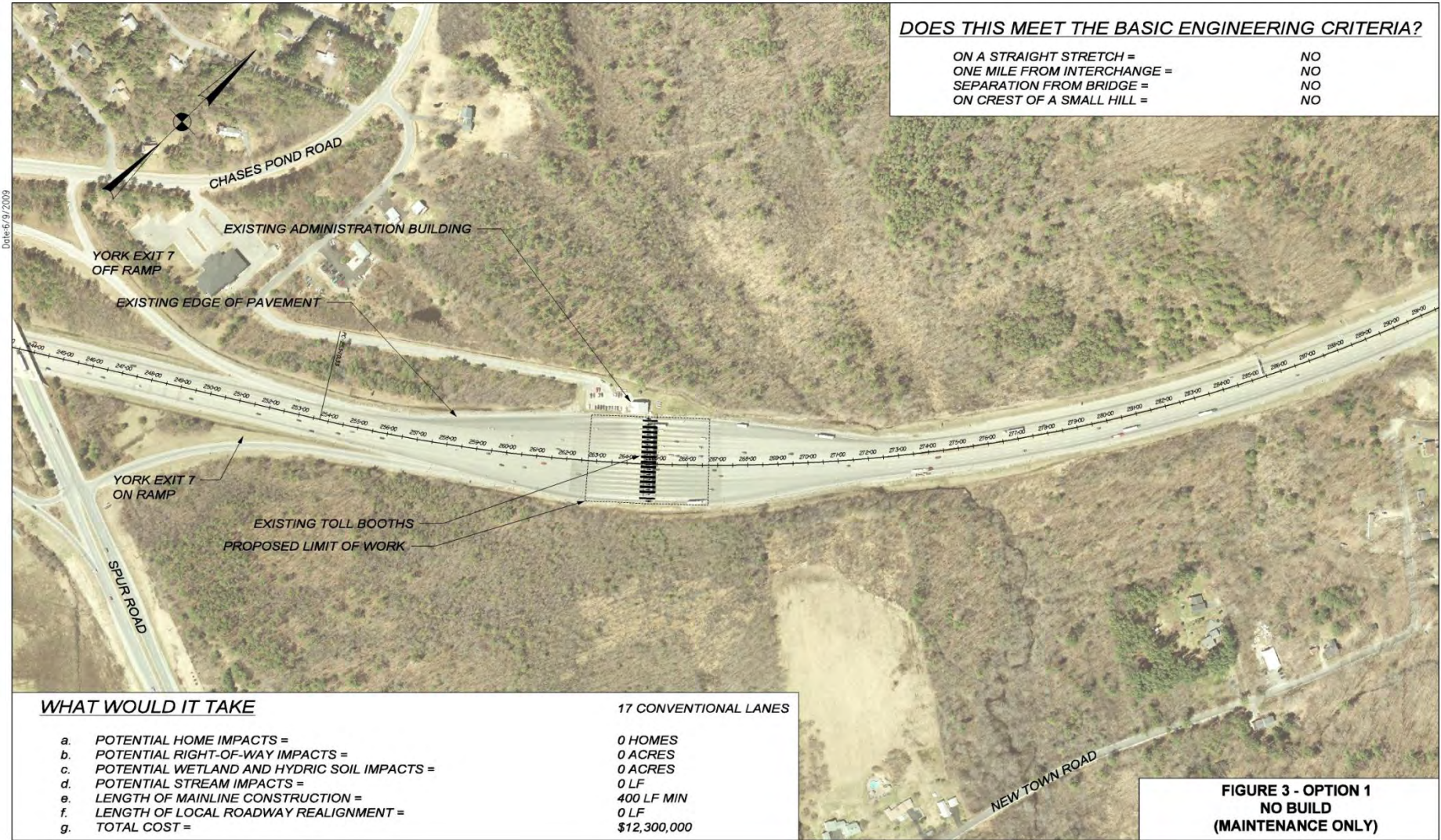
Existing Site Evaluation

Recommendations

1. Advance No Build as required by Permit process
2. Advance Option 4A
3. Advance option 4B
4. Revisit Site Identification With Refined Footprint
5. Advance alternate locations that:
 - A. better meet design guidelines
 - B. adhere to purpose and need
 - C. are less environmentally damaging
 - D. displaces no homes
 - E. minimizes impact to private property



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DOES THIS MEET THE BASIC ENGINEERING CRITERIA?

ON A STRAIGHT STRETCH =	NO
ONE MILE FROM INTERCHANGE =	NO
SEPARATION FROM BRIDGE =	NO
ON CREST OF A SMALL HILL =	NO

WHAT WOULD IT TAKE

	17 CONVENTIONAL LANES
a. POTENTIAL HOME IMPACTS =	0 HOMES
b. POTENTIAL RIGHT-OF-WAY IMPACTS =	0 ACRES
c. POTENTIAL WETLAND AND HYDRIC SOIL IMPACTS =	0 ACRES
d. POTENTIAL STREAM IMPACTS =	0 LF
e. LENGTH OF MAINLINE CONSTRUCTION =	400 LF MIN
f. LENGTH OF LOCAL ROADWAY REALIGNMENT =	0 LF
g. TOTAL COST =	\$12,300,000

**FIGURE 3 - OPTION 1
NO BUILD
(MAINTENANCE ONLY)**

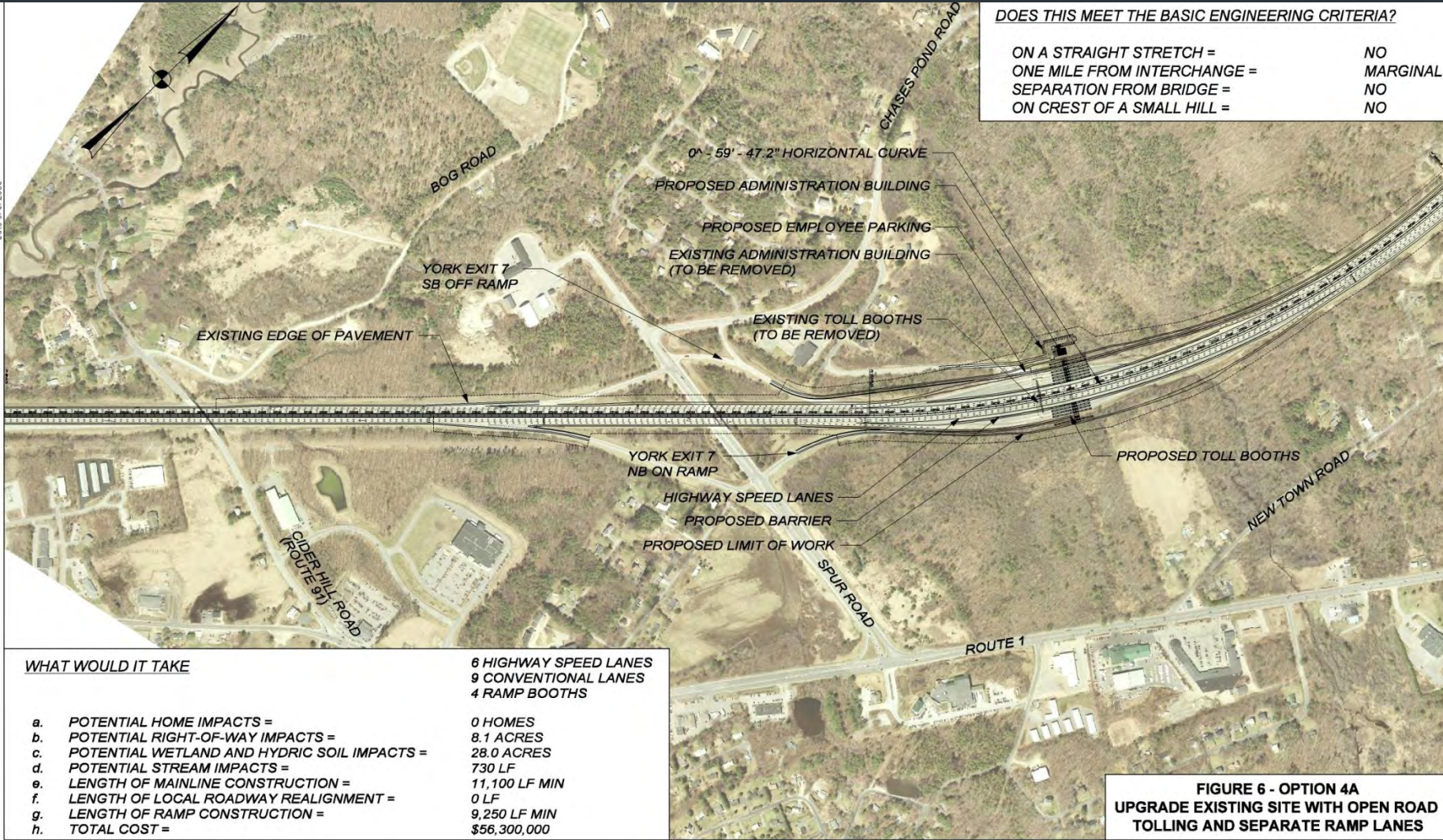
Date: 6/9/2009



Maine Turnpike Southern Toll Plaza Replacement Study



Date: 6/9/2009



DOES THIS MEET THE BASIC ENGINEERING CRITERIA?

ON A STRAIGHT STRETCH =	NO
ONE MILE FROM INTERCHANGE =	MARGINAL
SEPARATION FROM BRIDGE =	NO
ON CREST OF A SMALL HILL =	NO

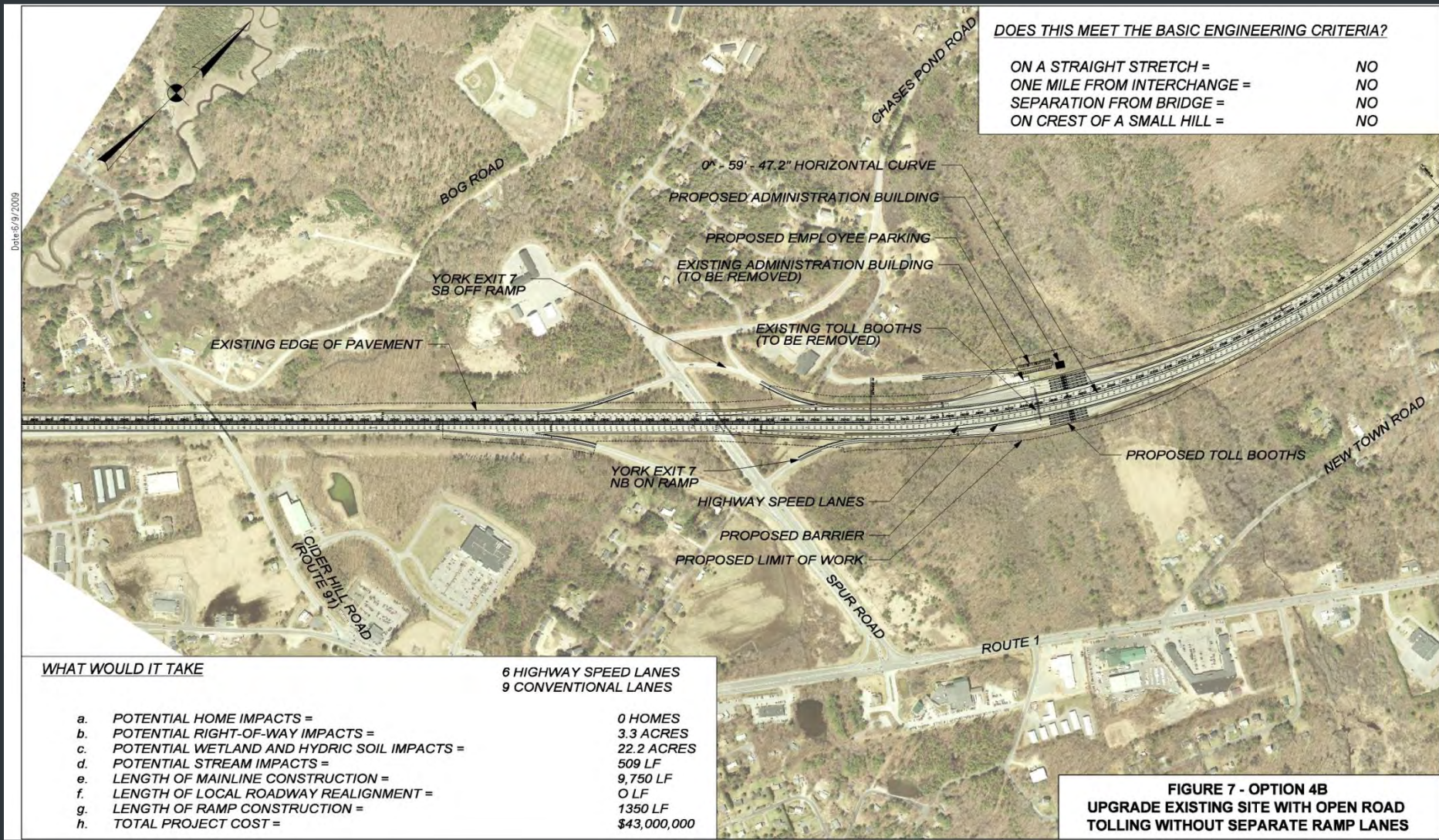
WHAT WOULD IT TAKE

	6 HIGHWAY SPEED LANES
	9 CONVENTIONAL LANES
	4 RAMP BOOTHS
a. POTENTIAL HOME IMPACTS =	0 HOMES
b. POTENTIAL RIGHT-OF-WAY IMPACTS =	8.1 ACRES
c. POTENTIAL WETLAND AND HYDRIC SOIL IMPACTS =	28.0 ACRES
d. POTENTIAL STREAM IMPACTS =	730 LF
e. LENGTH OF MAINLINE CONSTRUCTION =	11,100 LF MIN
f. LENGTH OF LOCAL ROADWAY REALIGNMENT =	0 LF
g. LENGTH OF RAMP CONSTRUCTION =	9,250 LF MIN
h. TOTAL COST =	\$56,300,000

**FIGURE 6 - OPTION 4A
UPGRADE EXISTING SITE WITH OPEN ROAD
TOLLING AND SEPARATE RAMP LANES**



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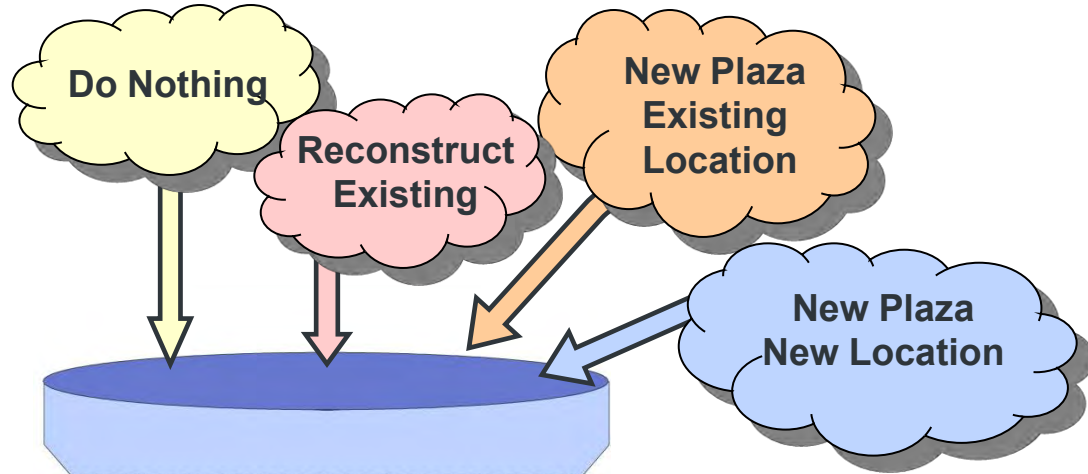


Date: 09/2/2009

Maine Turnpike Southern Toll Plaza Replacement Study



Project Purpose & Need Concurrence



Alternatives
(Site Identification & Screening)

Phase 1:
Avoidance then
Minimization

Corps' LEDPA

Phase 2:
Avoidance,
Minimization &
Compensation

Permitting

PREFERRED
ALTERNATIVE

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“LEDPA”

Least Environmentally Damaging
Practicable Alternative

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Alternate Site Identification & Screening

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Alternate Site ID and Screening Process

Site Identification and Screening

1. Level One Evaluation
 - A. Basic Engineering criteria
 - B. Physical features
2. Level Two Evaluation
 - A. Engineering criteria
 - B. Natural resources
 - C. Social resources

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Alternate
Site ID
and
Screening
Process

Level 1



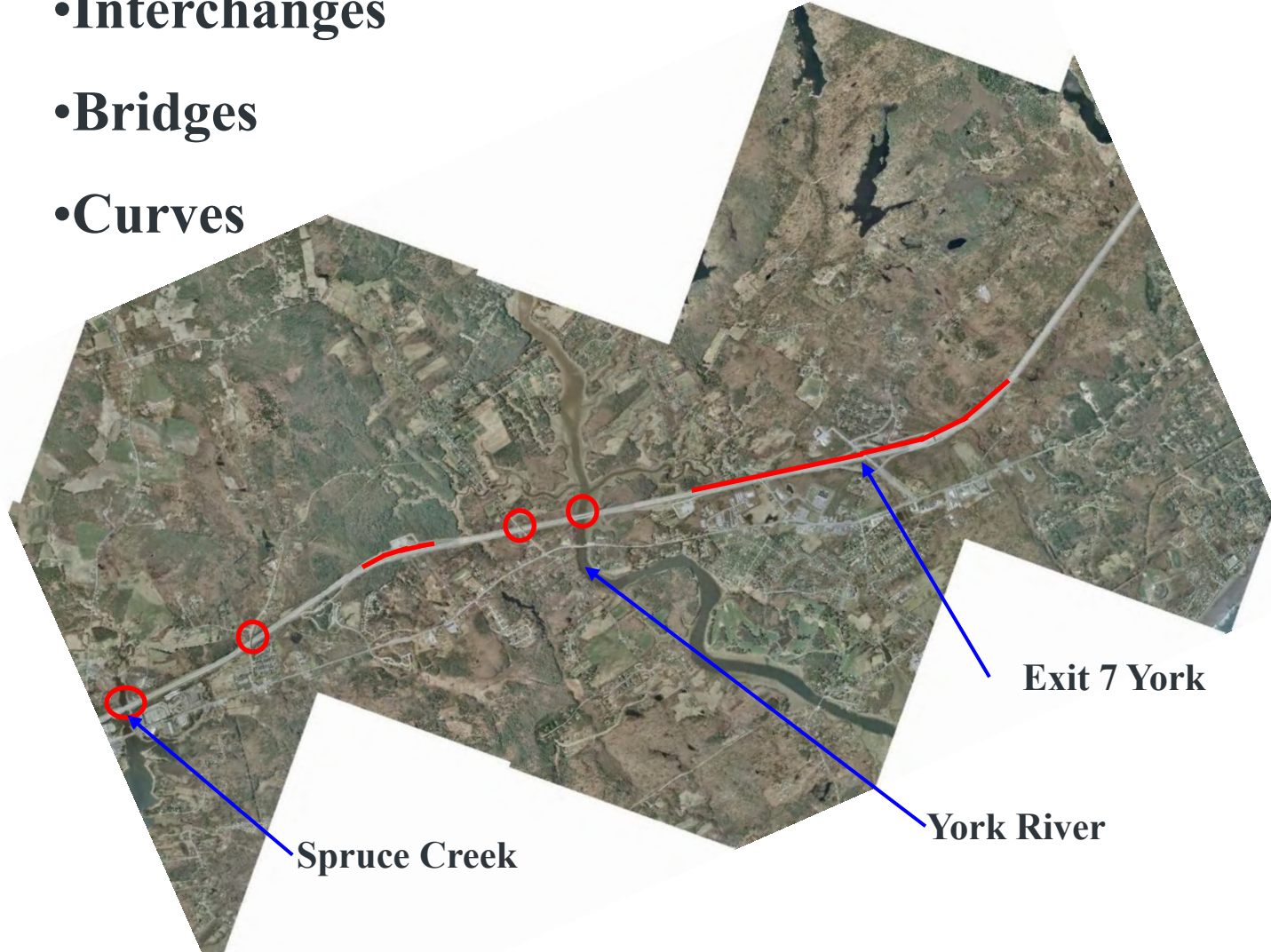
Study
Corridor



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Locate “Out-of-Bound” Areas

- Interchanges
- Bridges
- Curves



Alternate
Site ID
and
Screening
Process

Level 1

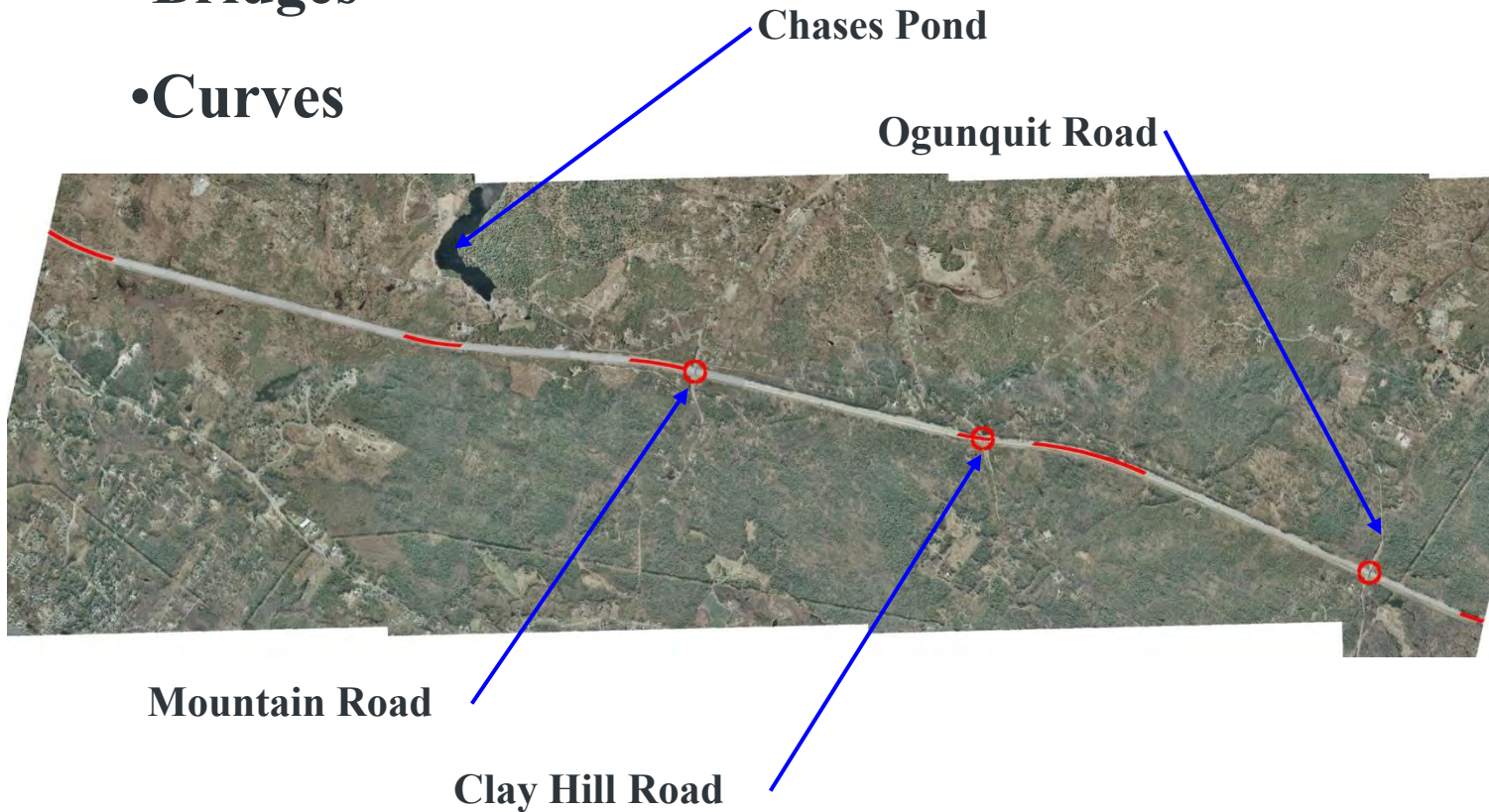
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Locate “Out-of-Bound” Areas

- Interchanges
- Bridges
- Curves



Alternate
Site ID
and
Screening
Process

Level 1

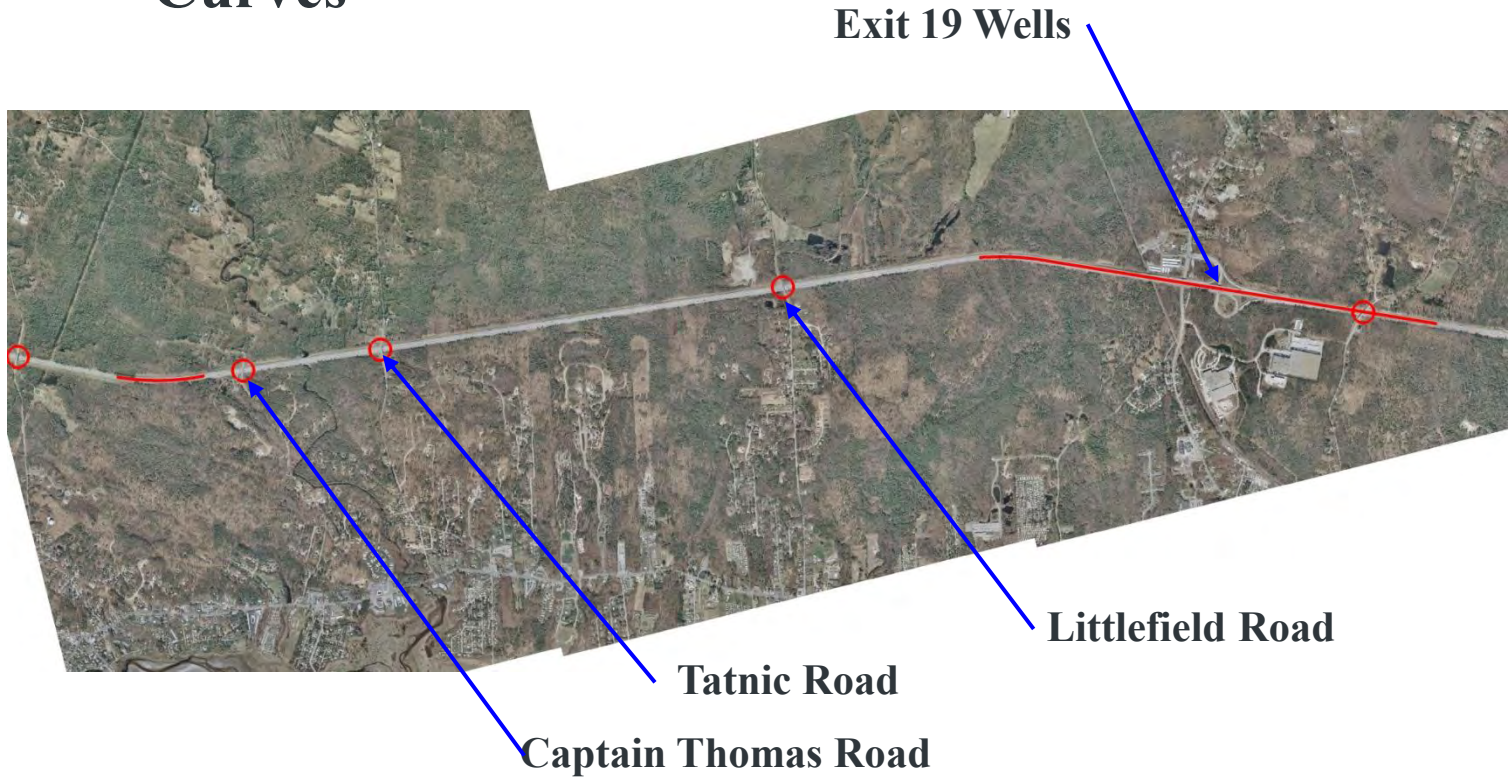
HNTB



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Locate “Out-of-Bound” Areas

- Interchanges
- Bridges
- Curves



Alternate
Site ID
and
Screening
Process

Level 1

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Locate tangent sections (straight sections) for plaza footprint that are not out-of-bounds.



Alternate
Site ID
and
Screening
Process

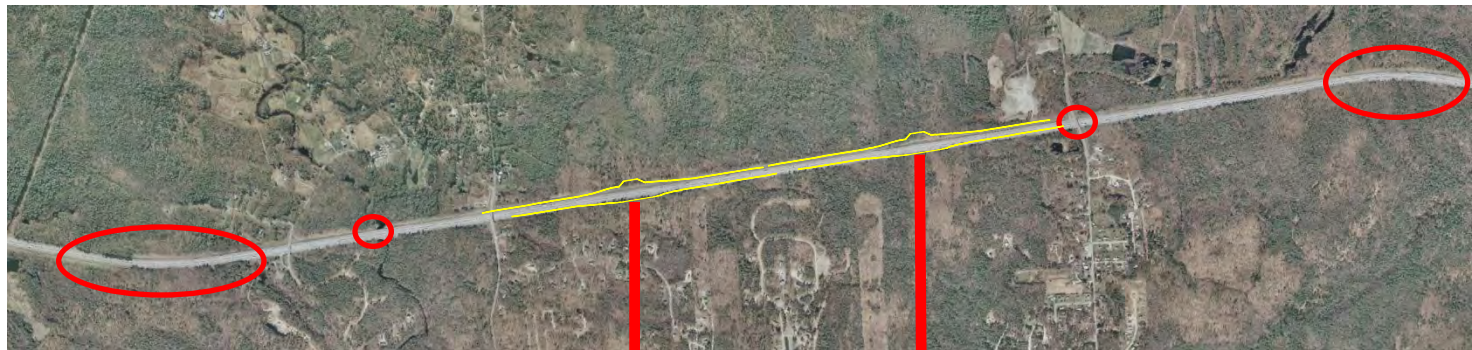
Level 1

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Check overhead structures (and sight distance).

Check for gradual hill crest at center of plaza.



Alternate
Site ID
and
Screening
Process

Level 1

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Level One Screening Results

16 Locations Meet the Basic Design Criteria

- South of Chases Pond Road (Exit 7) – 2 locations
- Chases Pond Road to Mountain Road – 7 locations
- Mountain Road to Clay Hill Road – 2 locations
- Clay Hill Road to N. Berwick Road – 1 location
- N. Berwick Road to Capt Thomas Road – 0 locations
- Capt. Thomas Road to Tatnic Road – 0 locations
- Tatnic Road to Littlefield Road – 3 locations
- Littlefield Road to Wells Interchange – 1 location

Alternate
Site ID
and
Screening
Process

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Alternate
Site ID
and
Screening
Process

Site ID
Process
Yields 16
Candidate
Locations

Level 1



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Level Two Screening – Additional Engineering

- Highway grades
- Sight distances
- Typical cross-section

Alternate
Site ID
and
Screening
Process

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Level Two Screening – Social Resources

- Homes
- Schools
- Parks
- Municipal facilities
- Planned development
- Private Property

Alternate
Site ID
and
Screening
Process

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Level Two Screening - Environmental Resources

- Wetlands & wetland soils
- Rivers and Streams
- Floodplain
- Aquifers (Groundwater)
- Historic and Archaeological Resources

Alternate
Site ID
and
Screening
Process

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Alternate
Site ID
and
Screening
Process

Level 2



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Alternate
Site ID
and
Screening
Process

Level 2



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Alternate
Site ID
and
Screening
Process

Level 2



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Alternate Site ID and Screening Process

Level 2



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Alternate Site ID and Screening Process

Level 2



Legend

- Parcel Boundaries
- NWI Certified Wetland
- Hydric Soil
- FEMA Special Flood Hazard Area

Source: Maine Office of GIS, Town of York

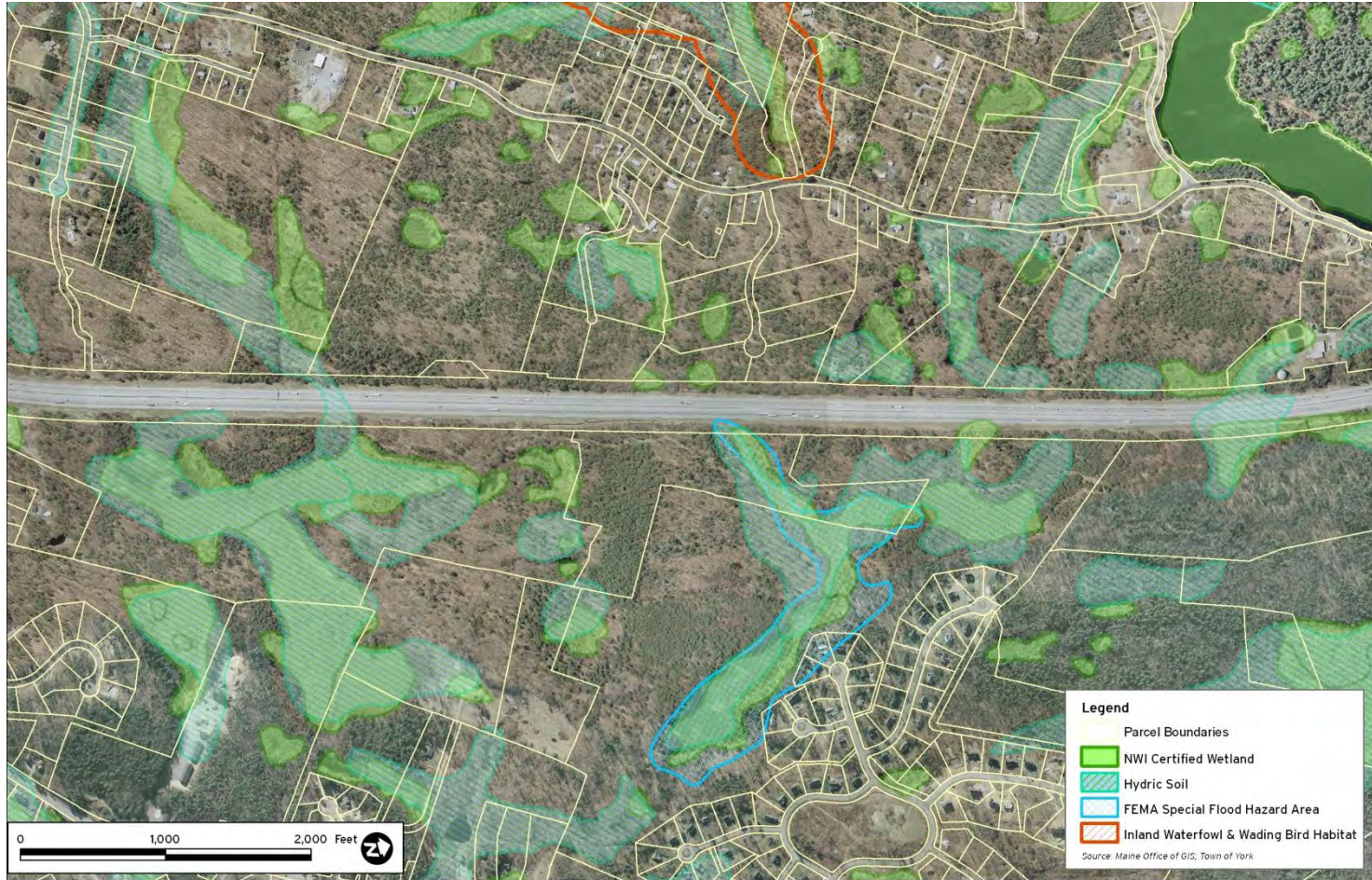


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Alternate Site ID and Screening Process

Level 2

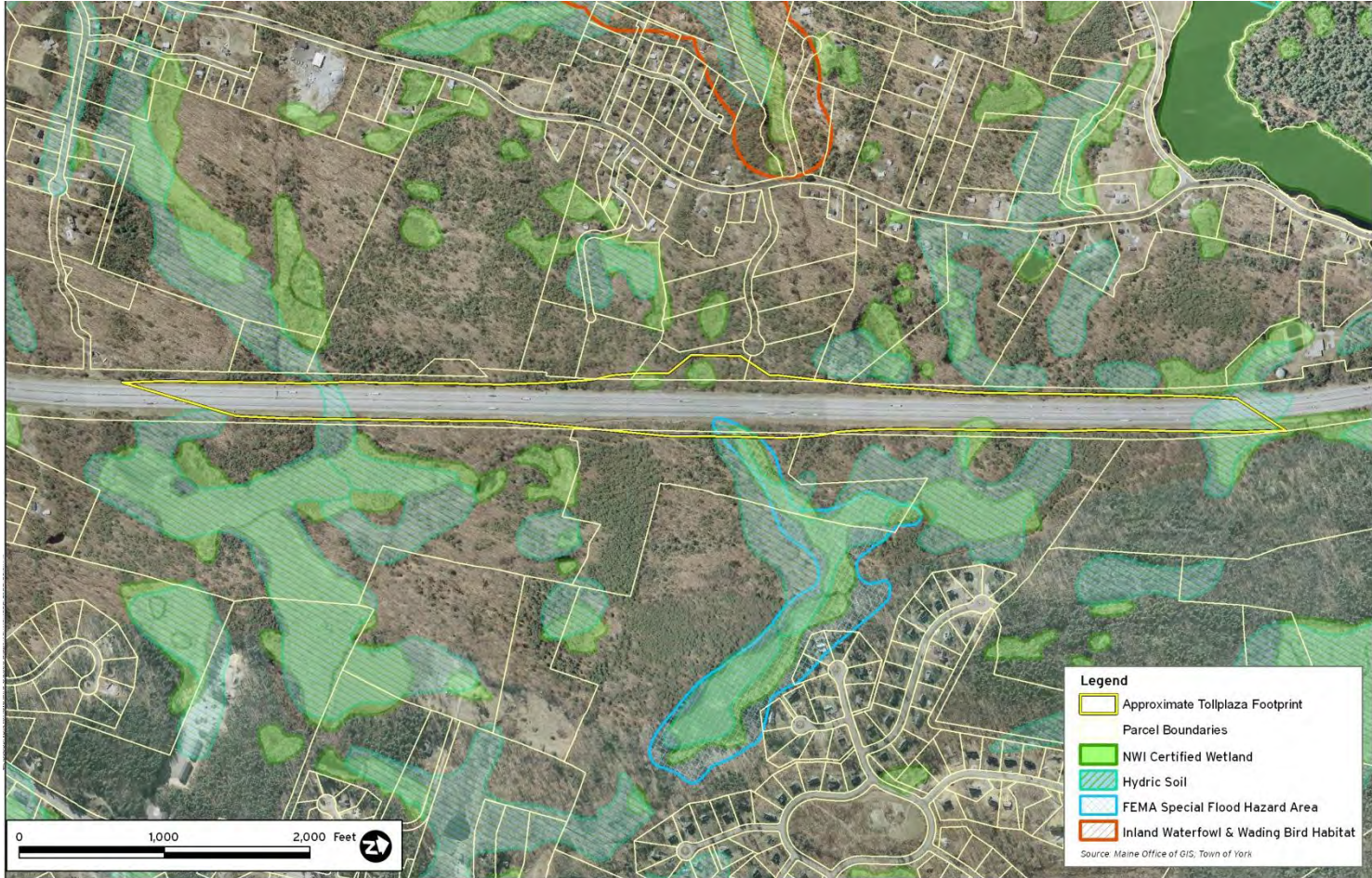


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Alternate Site ID and Screening Process

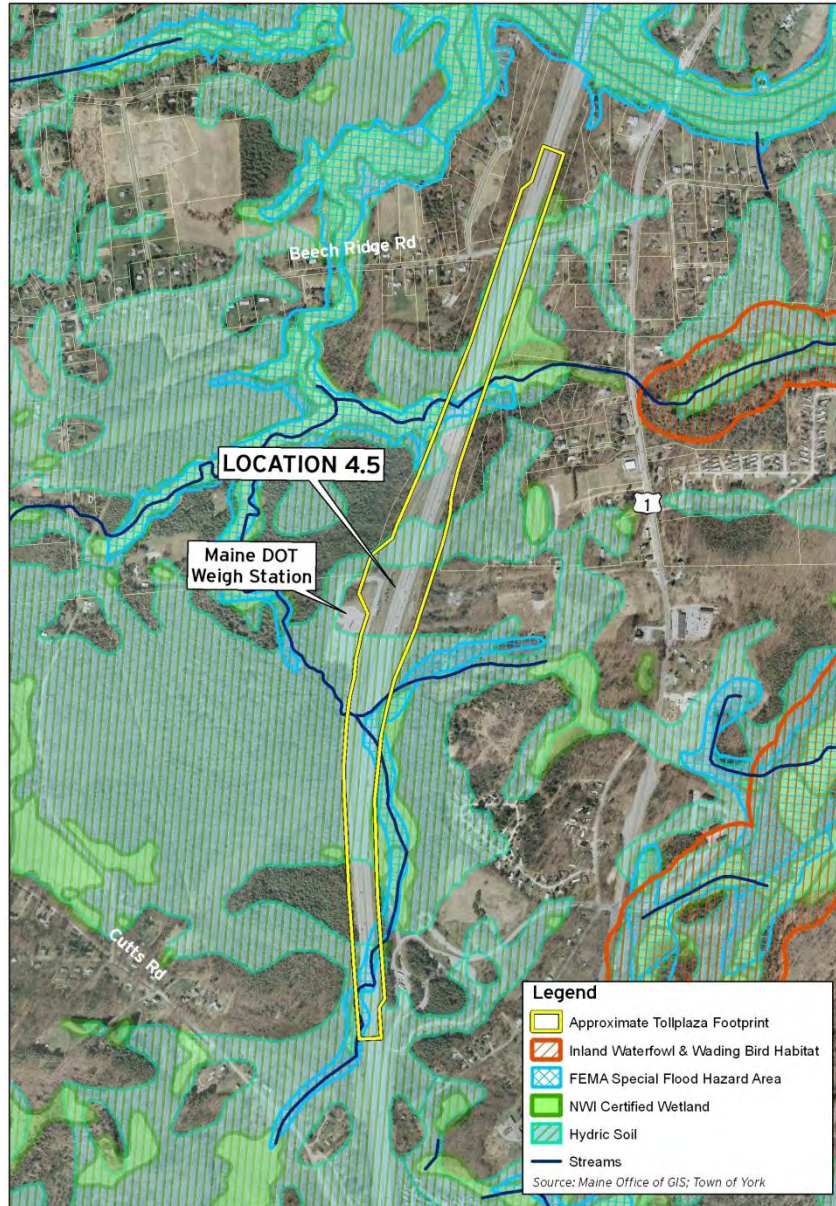
Level 2



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Alternate
Site ID
and
Screening
Process

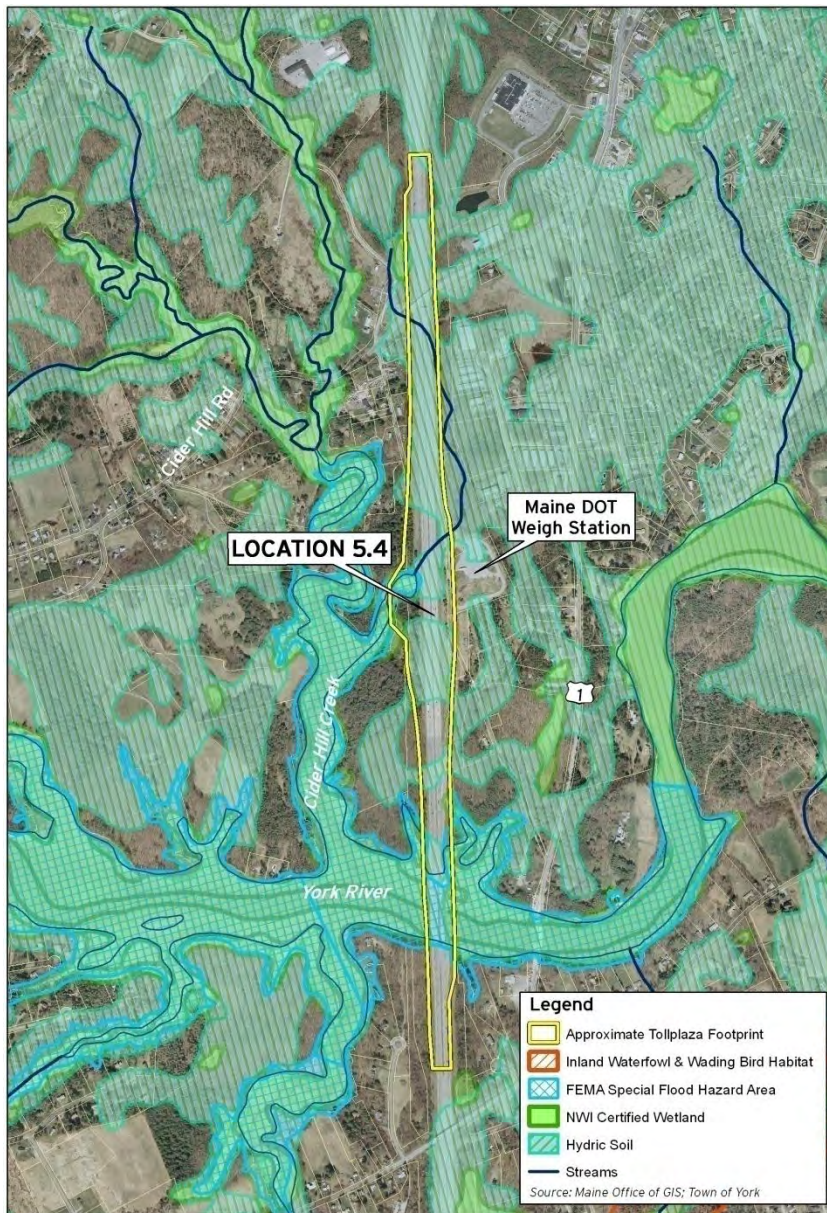


Location 4.5

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Alternate
Site ID
and
Screening
Process

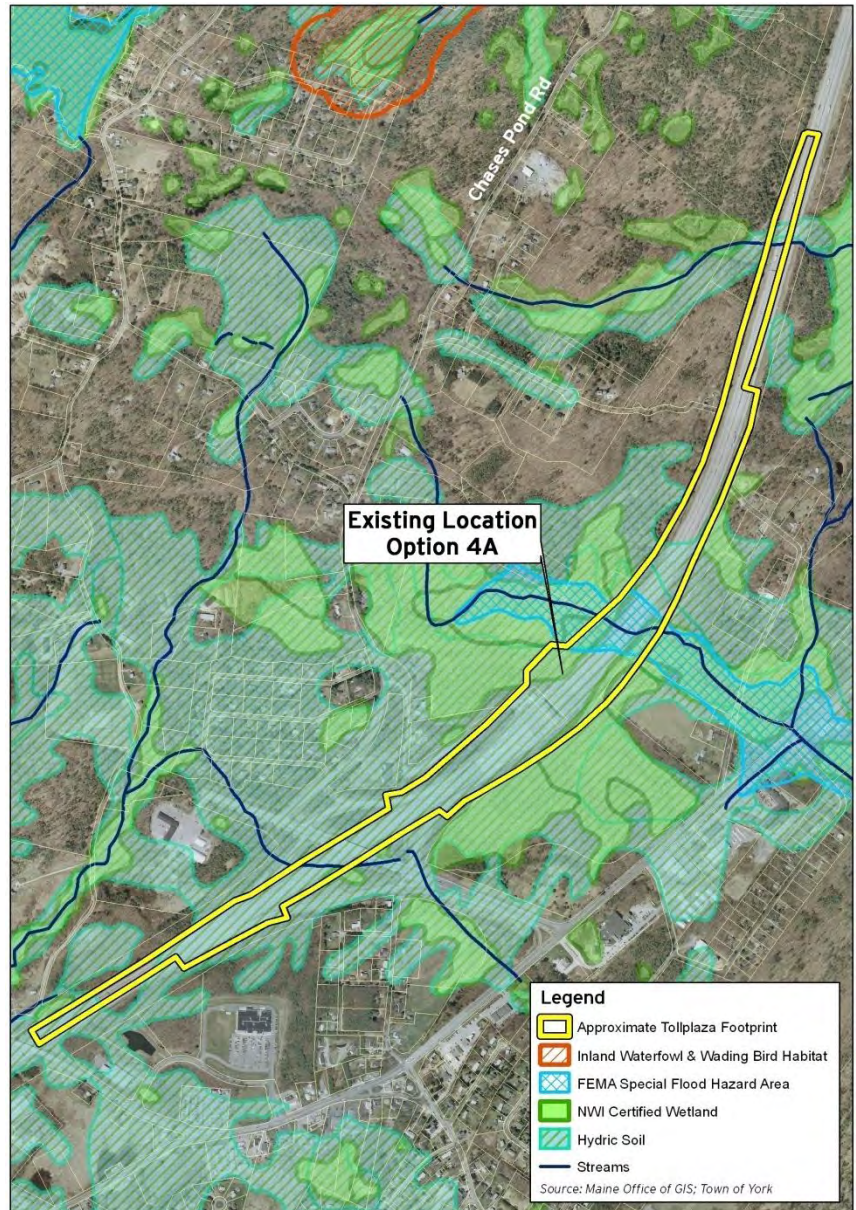


Location 5.4

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From Existing Site Evaluation



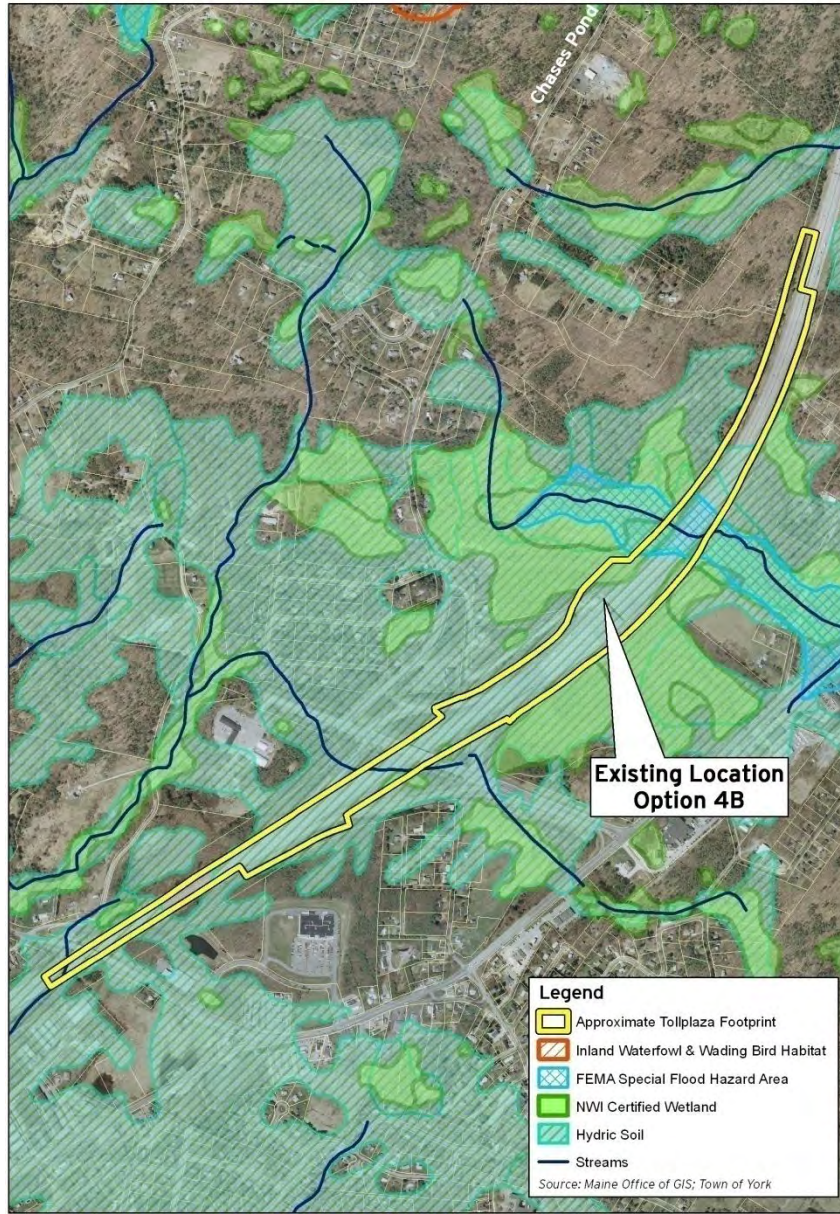
Location 7.3
Option 4A



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From
Existing
Site
Evaluation



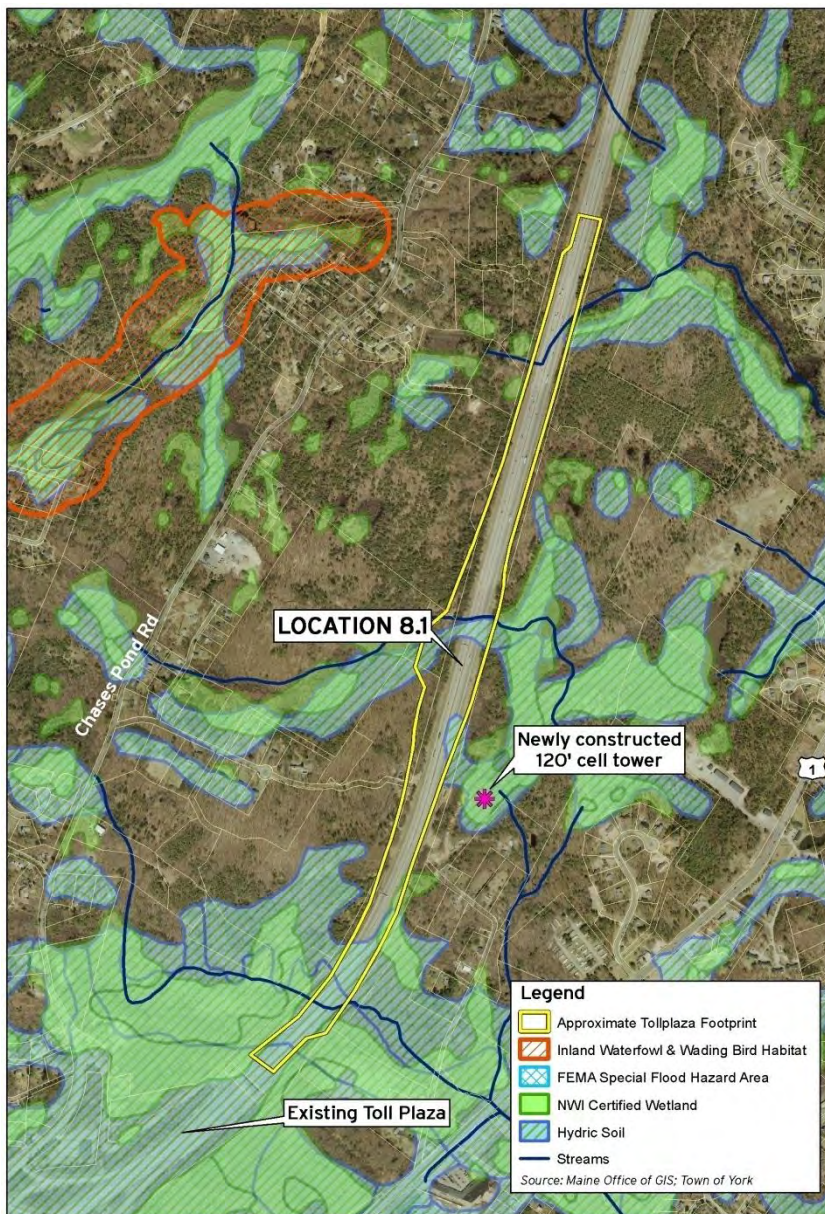
Location 7.3
Option 4B

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Alternate
Site ID
and
Screening
Process

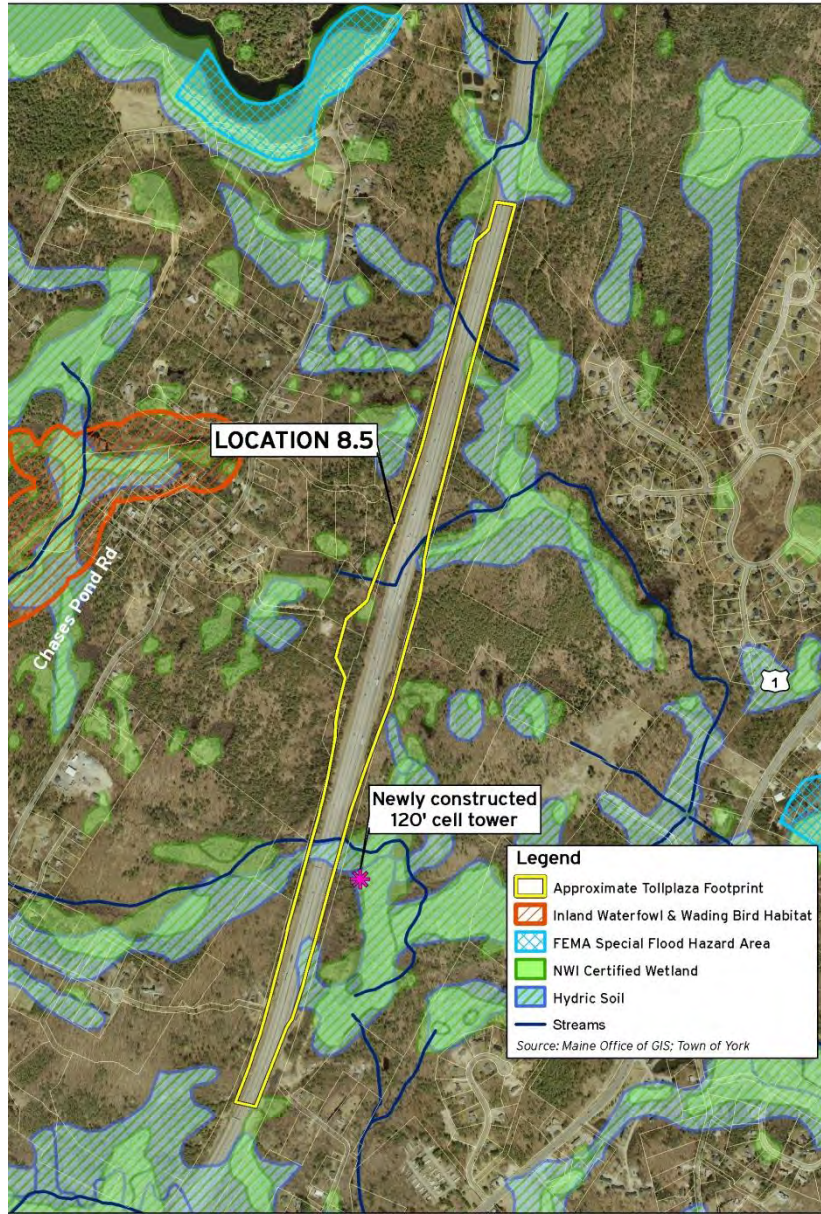
Location 8.1



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Alternate
Site ID
and
Screening
Process



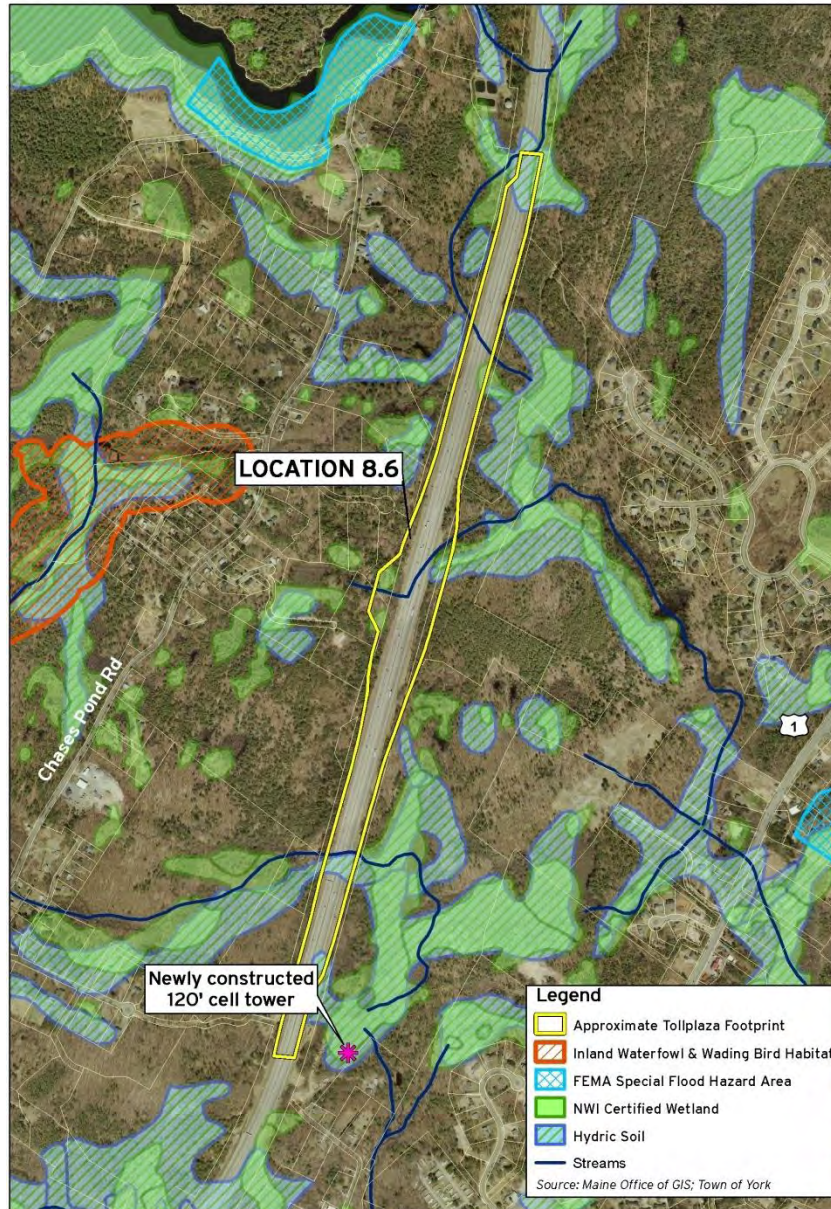
Location 8.5

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Alternate
Site ID
and
Screening
Process

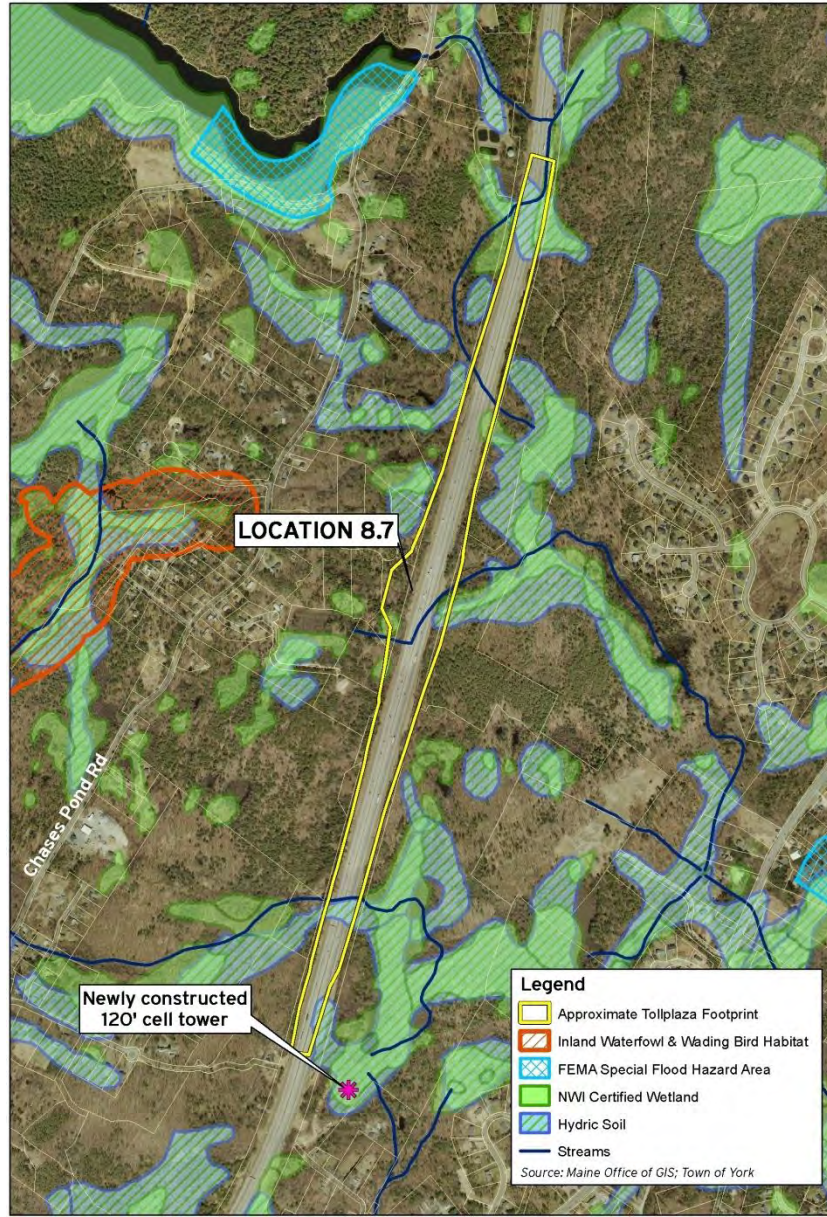
Location 8.6



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Alternate
Site ID
and
Screening
Process



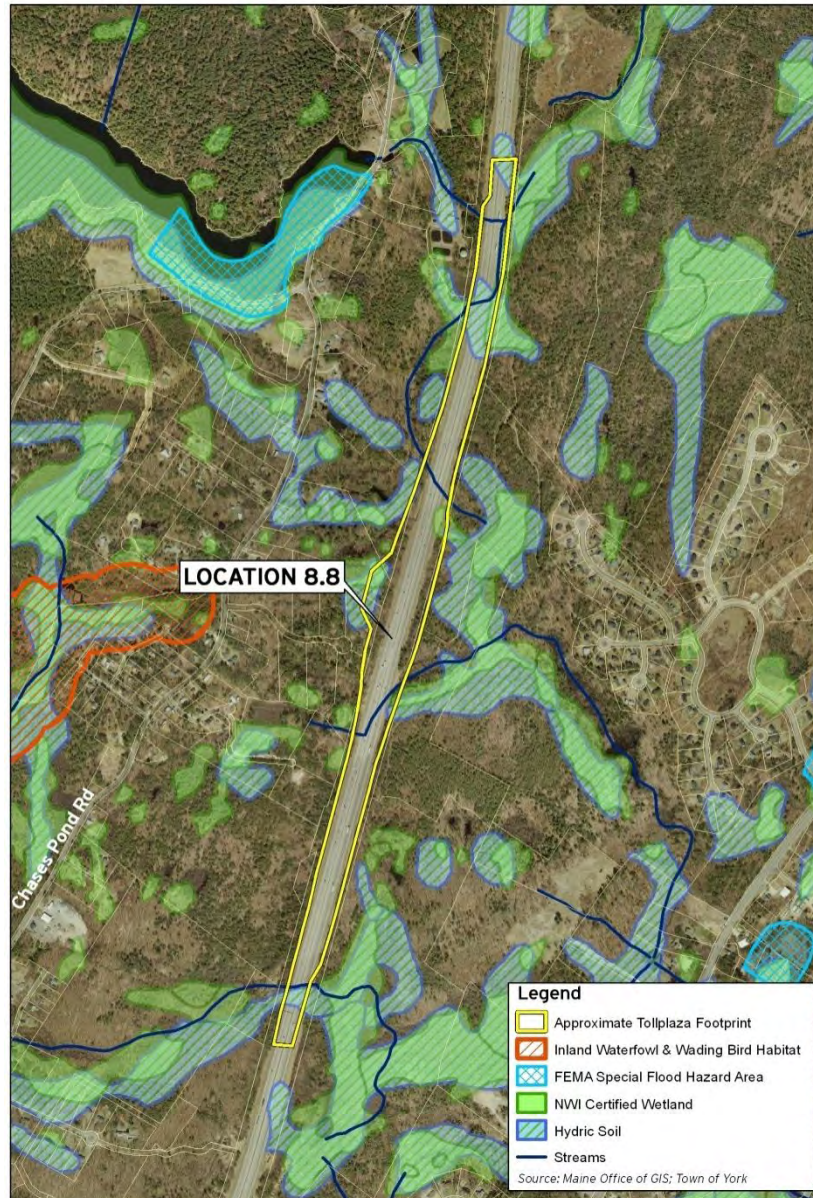
Location 8.7

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Alternate
Site ID
and
Screening
Process

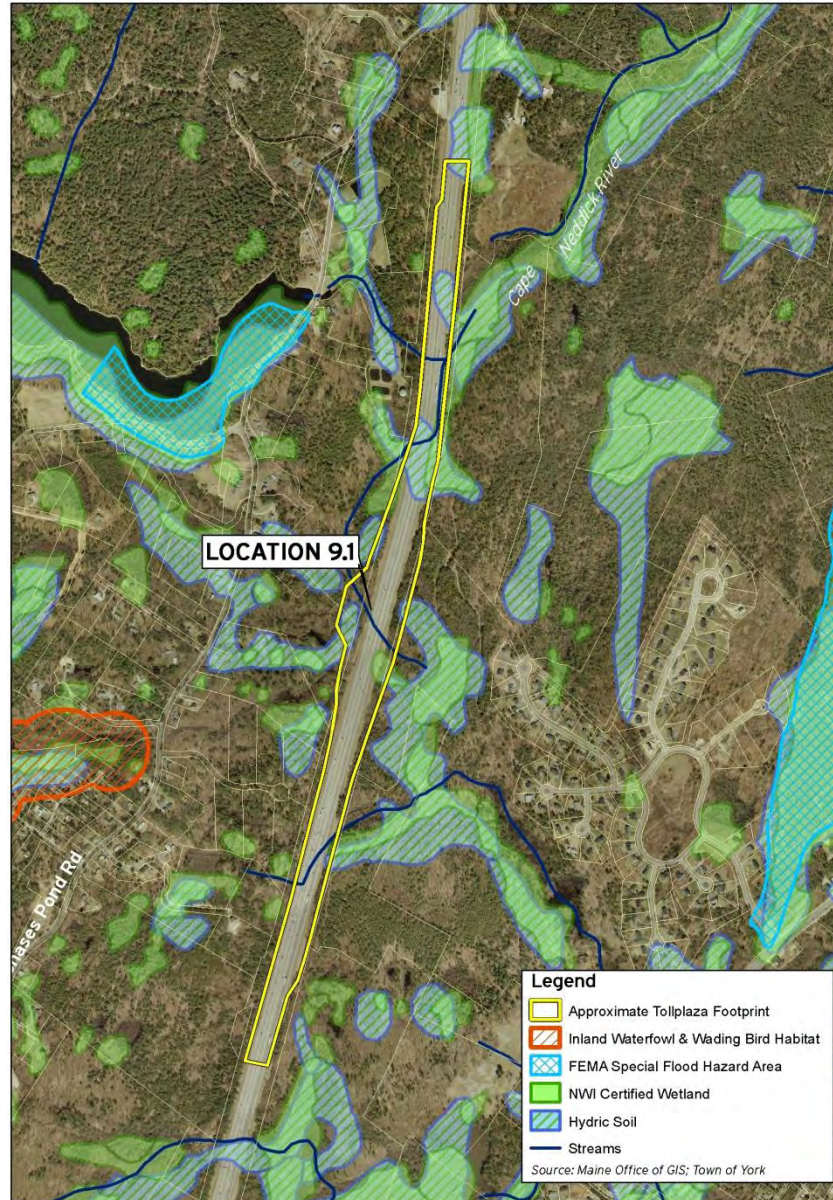
Location 8.8



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Alternate
Site ID
and
Screening
Process

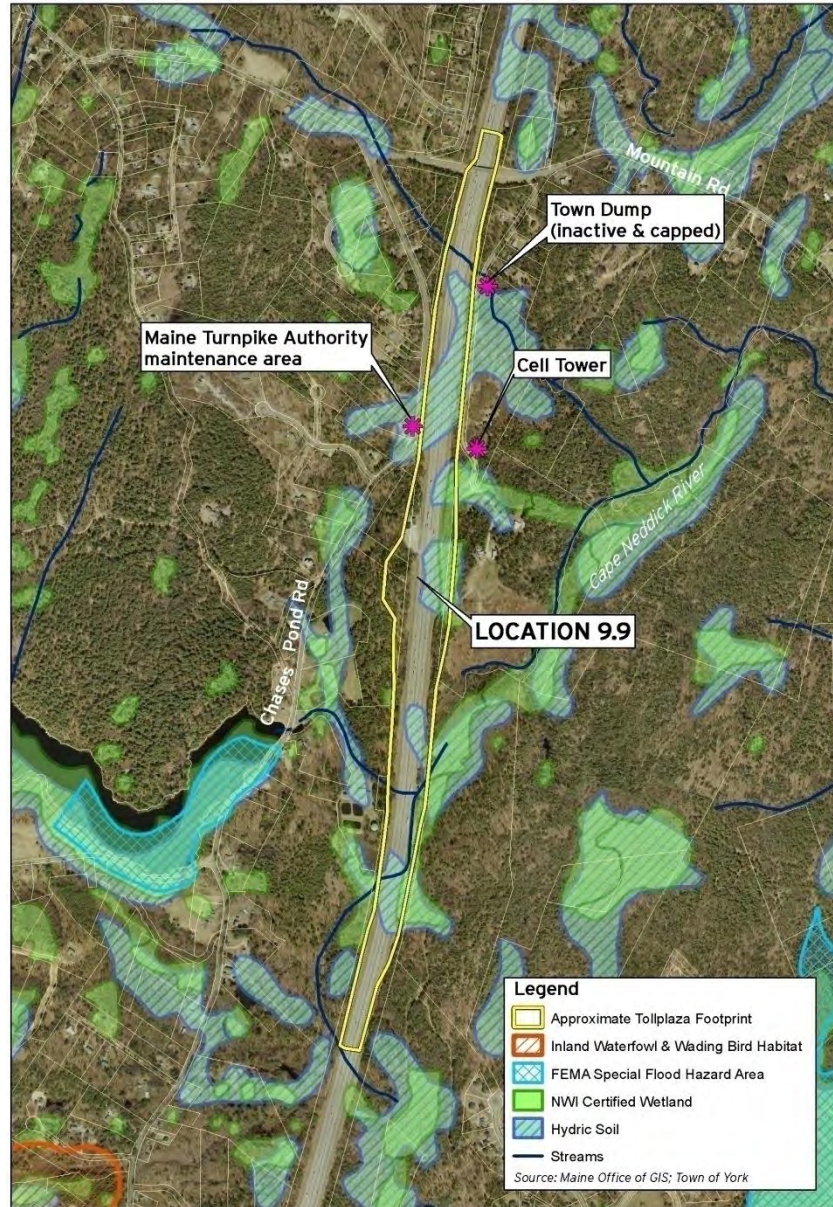


Location 9.1

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Alternate Site ID and Screening Process

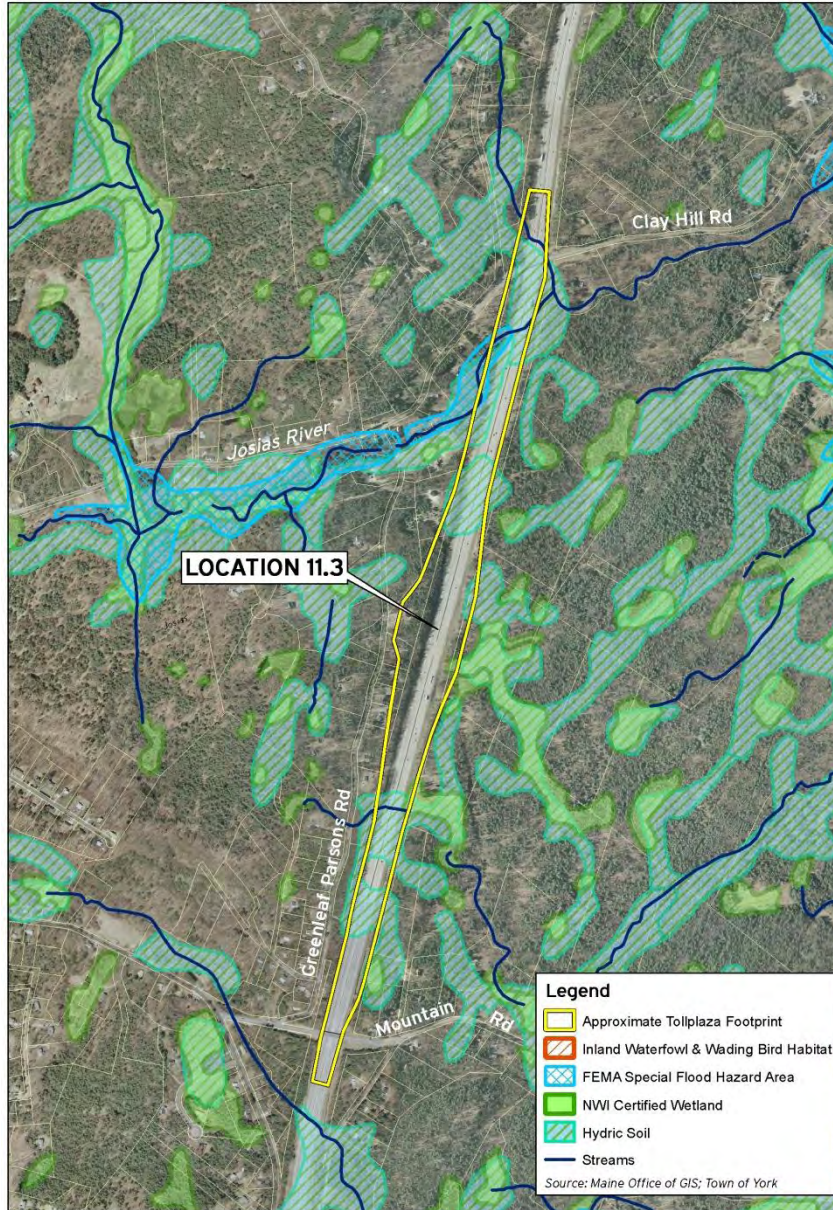


Location 9.9

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Alternate
Site ID
and
Screening
Process

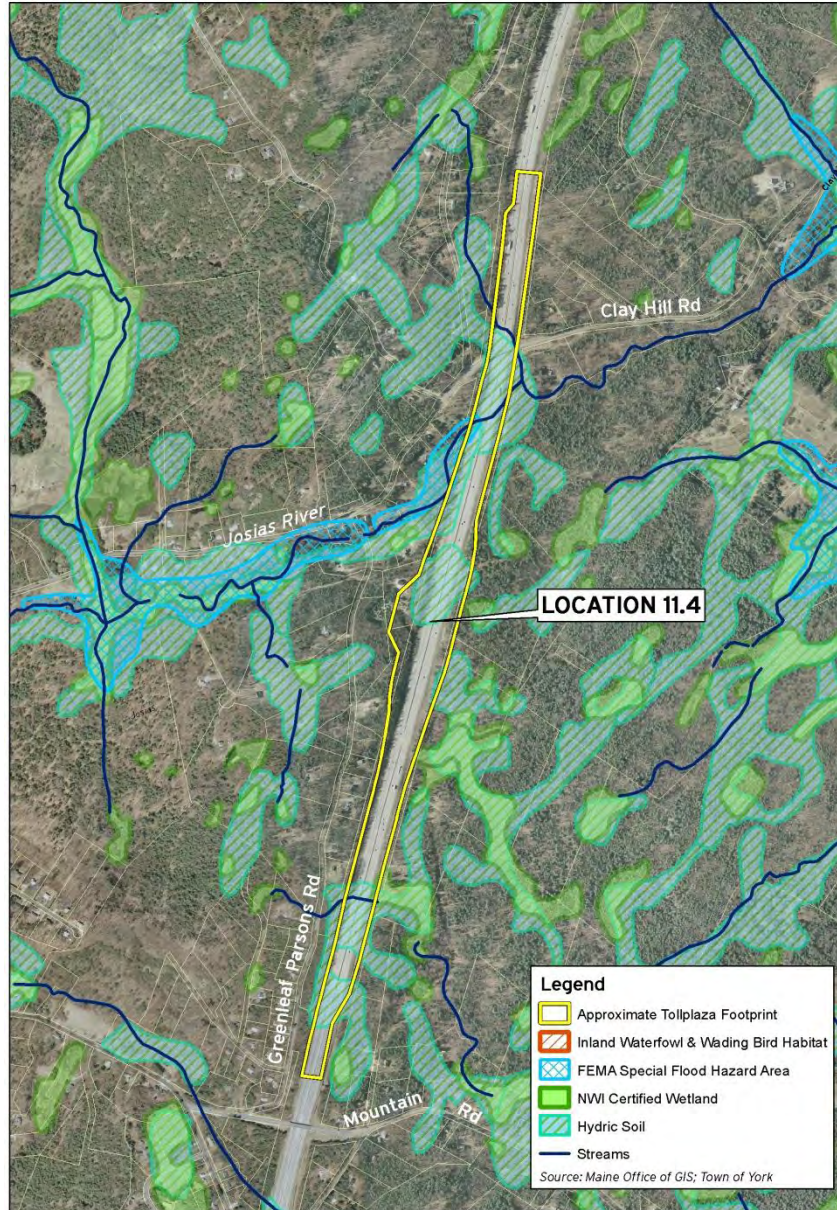


Location 11.3

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Alternate
Site ID
and
Screening
Process



Location 11.4

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Alternate
Site ID
and
Screening
Process

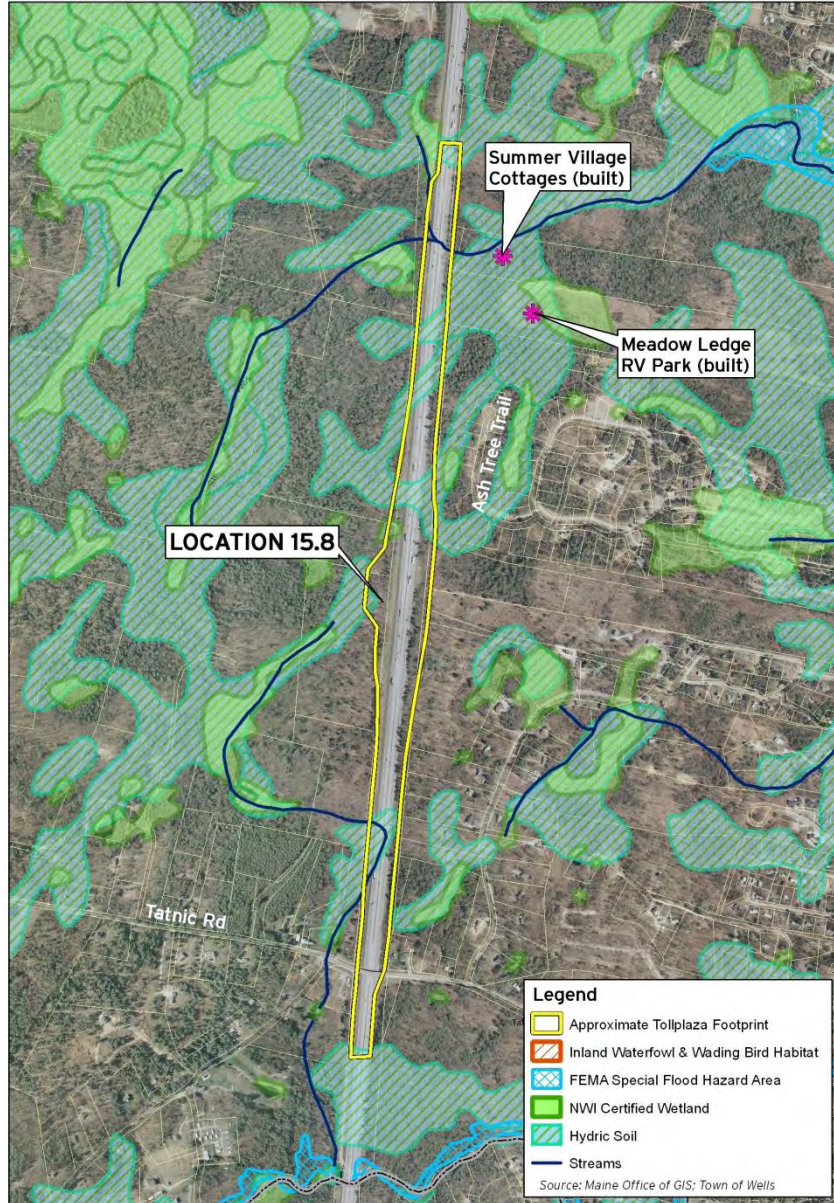


Location 13.2

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Alternate Site ID and Screening Process

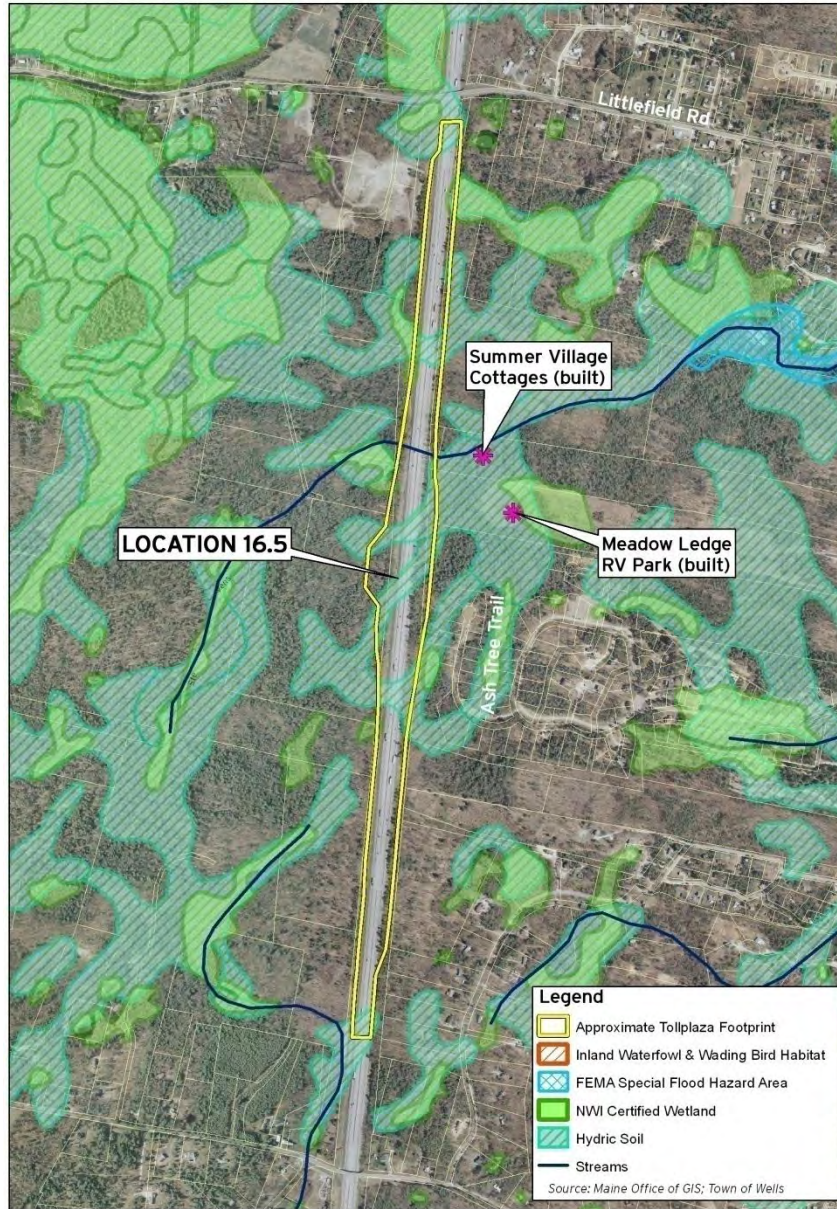


Location 15.8

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Alternate
Site ID
and
Screening
Process

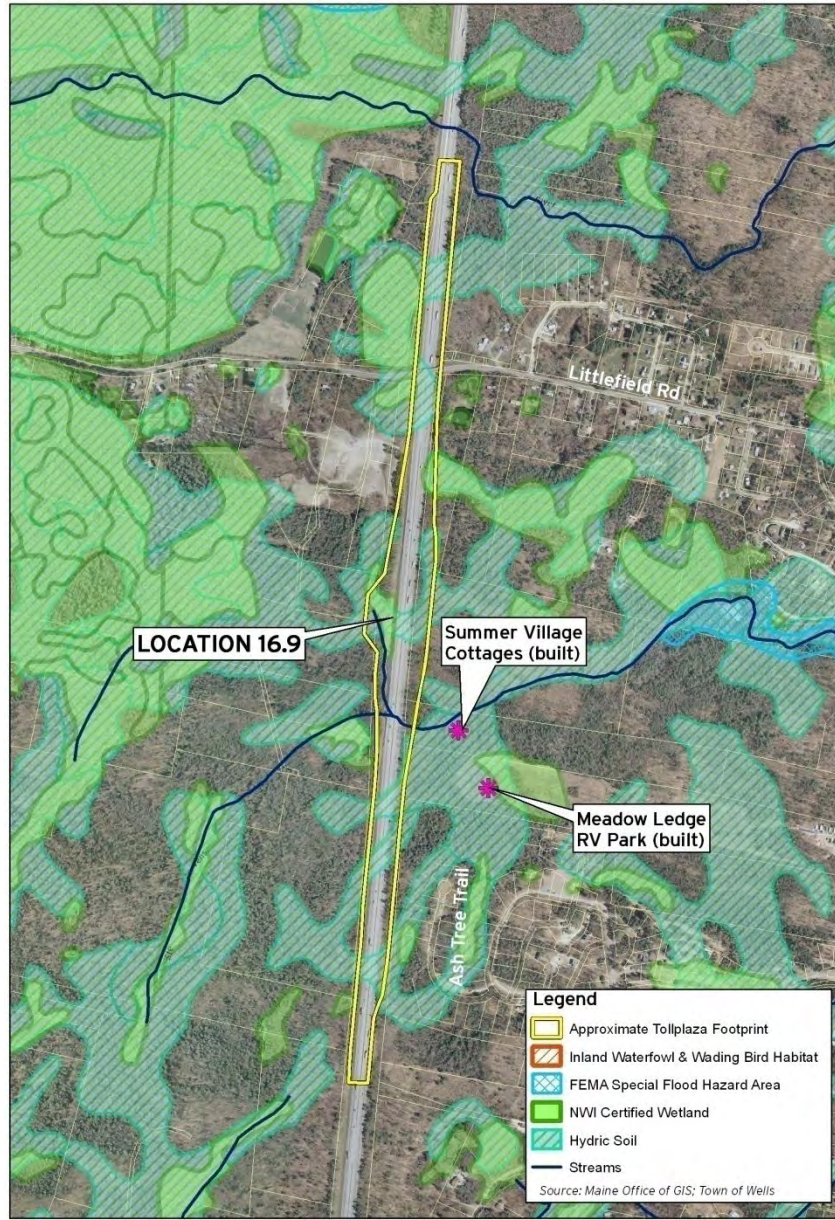


Location 16.5

Maine Turnpike Southern Toll Plaza Replacement Study



Alternate
Site ID
and
Screening
Process

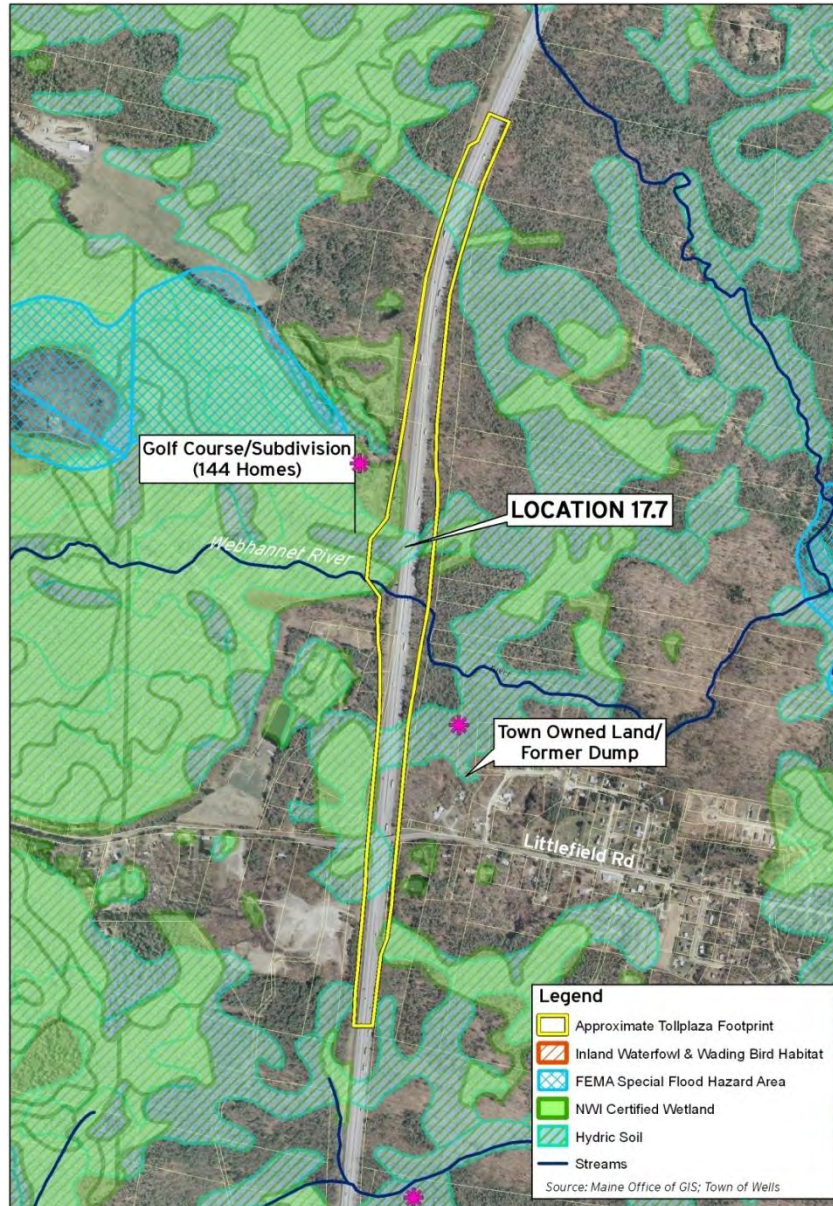


Location 16.9

Maine Turnpike Southern Toll Plaza Replacement Study



Alternate
Site ID
and
Screening
Process



Location 17.7



Maine Turnpike Southern Toll Plaza Replacement Study



Location/Evaluation Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13
	Engineering Criteria						Natural Resource & Built Environment Impacts						
	Horizontal Alignment	Vertical Alignment	Separation from Interchange (>1 mile)	Separation from Overhead Structure (>2000 feet)	Sight Distance	Satisfies Purpose and Need	Potential Right-of-Way Impacts (Acres)	Potential Wetland Impacts - National Wetland Inventory (acres)	Potential Wetland Impacts - Natural Resource Conservation Services (acres)	Potential Stream Impacts - Maine OGIS (LF)	Potential Floodplain Impacts - Federal Emergency Management Agency Floodmaps (acres)	Potential Home Displacements (Homes) ³	Homes Within 1000 ft (Homes)
SPRUCE CREEK													
Location 4.5 ¹	NOT On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	NO	0.8	1.8	18.6	958	2.4	0	28
Location 5.4 ¹	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	NO	6.3	3.0	17.1	711	3.2	2	27
EXISTING LOCATION													
Option 1 (Existing Site, No Build)	NOT On Straight Section	NOT At Crest of Hill	No	No	Poor, both directions	NO	0.0	0.0	0.0	0	0.0	0	5
Location 7.3 - Option 4A (Existing Site with Highway Speed Tolling)	NOT On Straight Section	NOT At Crest of Hill	Marginal, barrier separated ramps	No	Poor, both directions	MARGINAL	8.1	8.8	28.0	729	4.3	0	41
Location 7.3 - Option 4B (Existing Site with Highway Speed Tolling)	NOT On Straight Section	NOT At Crest of Hill	No	No	Poor, both directions	NO	3.3	4.9	22.2	509	2.8	0	32
CHASES POND ROAD													
Location 8.1	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	MARGINAL	7.3	0.5	5.7	662	1.2	0	8
Location 8.5	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	YES	12.5	0.7	0.6	544	0.2	2	7
Location 8.6	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	YES	6.9	1.6	1.4	809	0.6	0	8
Location 8.7	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	YES	7.0	2.4	1.7	939	0.5	0	6
Location 8.8	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	YES	7.2	1.7	2.7	1487	0.4	0	12
Location 9.1	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	YES	7.1	1.6	3.8	1582	0.1	0	9
Location 9.9	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	YES	8.4	3.4	6.5	816	0.0	2	34
MOUNTAIN ROAD													
Location 11.3	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	YES	11.8	0.3	9.4	454	0.8	5	29
Location 11.4	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	YES	8.7	0.2	11.0	667	0.6	1	38
CLAY HILL ROAD													
Location 13.2	On Straight Section	At Crest of Hill	Yes	Yes	Good, both directions	YES	11.1	0.1	3.9	160	Negligible	2	19
TATNIC ROAD													
Location 15.8 ⁴	On Straight Section	At Crest of Hill	Marginal, would require future barrier separated ramps	Yes	Good, both directions	MARGINAL	11.6	0.4	5.3	593	0.1	0	26
Location 16.5 ⁴	On Straight Section	At Crest of Hill	Marginal, would require future barrier separated ramps	Yes	Good, both directions	MARGINAL	13.9	1.0	7.6	576	0.4	0	18
Location 16.9 ⁴	On Straight Section	At Crest of Hill	Marginal, would require future barrier separated ramps	Yes	Good, both directions	MARGINAL	13.5	2.9	9.7	1095	3.3	0	12
LITTLEFIELD ROAD													
Location 17.7	Not On Straight Section	At Crest of Hill	No	Yes	Good, both directions	MARGINAL	22.3	4.2	7.0	466	0.0	0	5
WELLS INTERCHANGE													

Footnotes:

- Location would change tolling structure (plaza south of exit 7). New weight station required to replace displaced weight station. Additional environmental impacts for new weigh station likely but not estimated here.
- Vertical grade excessive at toll plaza.
- Taking of any homes is considered a "high-range of impact"
- Barrier separated ramps to accommodate an interchange would require additional environmental and social impacts. Additional impacts not estimated here.

Low-Range of impacts	0-7.4	0-2.9	0-9.3	0-527	0-1.4	0	0-17
Middle-Range of impacts	7.5-14.8	3.0-5.8	9.4-18.6	528-1054	1.5-2.8	0	18-29
High-Range of impacts	>14.8	>5.8	>18.6	>1054	>2.8	>0	>29

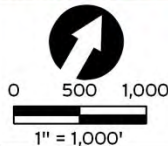
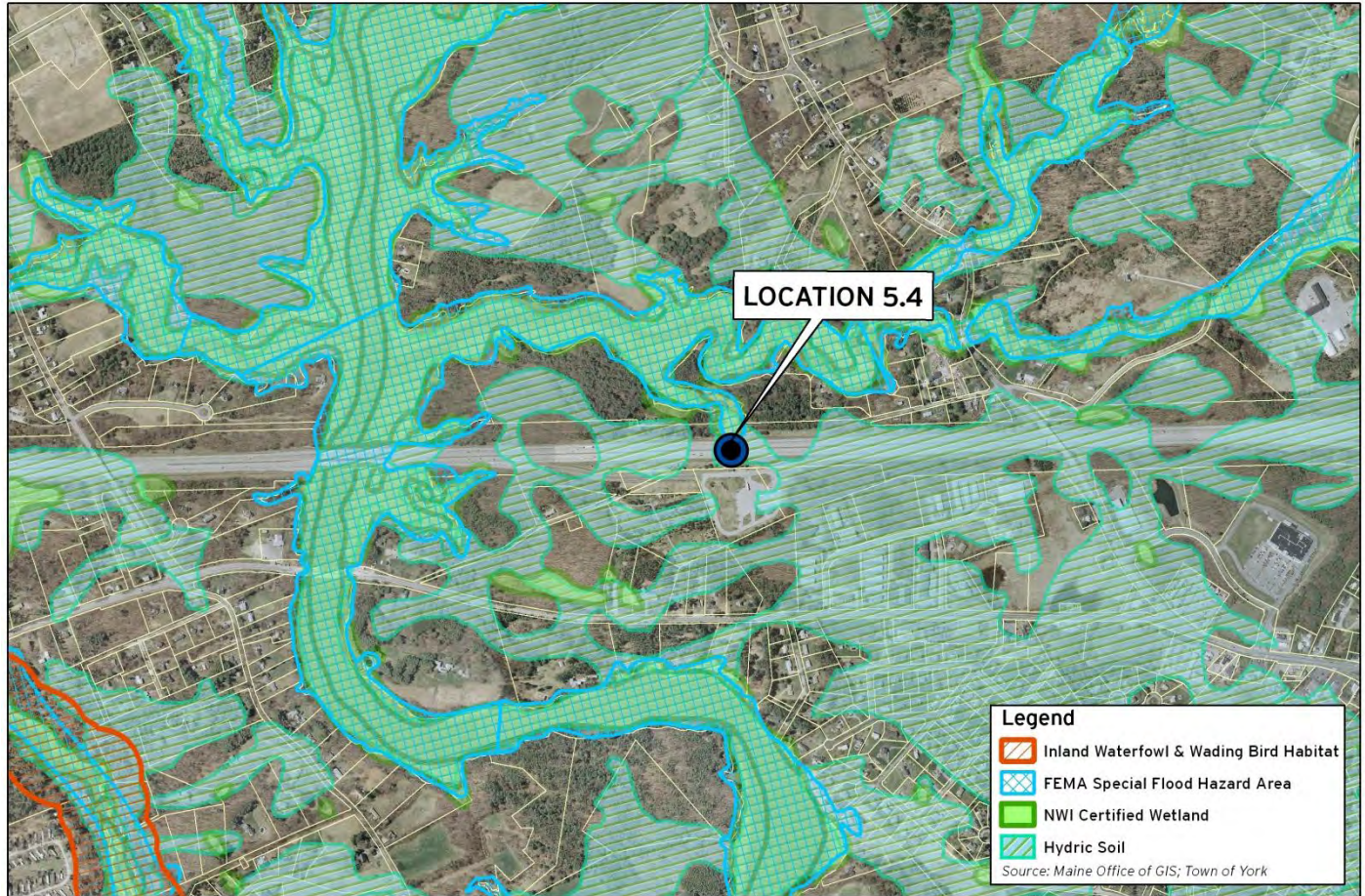
Maine Turnpike Southern Toll Plaza Replacement Study



Example of Location Not Advanced

Alternate Site ID and Screening Process

Level 2



Maine Turnpike Authority
Southern Toll Plaza
Replacement Study
Location 5.4



Maine Turnpike Southern Toll Plaza Replacement Study



Level Two Screening Results

14 Alternate Locations NOT Advanced

- South of Chases Pond Road (Exit 7) – 2 (of 2) locations
- Chases Pond Rd to Mountain Rd – 5 (of 7) locations
- Mountain Road to Clay Hill Road – 2 (of 2) locations
- Clay Hill Road to N. Berwick Road – 1 (of 1) locations
- N. Berwick Rd to Capt Thomas Rd – 0 (of 0) locations
- Capt. Thomas Road to Tatnic Road – 0 (of 0) locations
- Tatnic Road to Littlefield Road – 3 (of 3) locations
- Littlefield Road to Wells Interchange – 1 (of 1) locations

Plus: One Existing Site Option NOT Advanced

- Existing Site – 1 (of 2) options

**Candidate
Site ID
and
Screening
Process**

Maine Turnpike Southern Toll Plaza Replacement Study



Conclusion

Recommendations

- The following three locations, along with the no-build option, are proposed to be further evaluated and compared in Phase II of the Highway Methodology.
 - Advance No Build as required by Permit process
 - Advance Existing Site Option 4A
 - Advance Alternate Site MM8.7
 - Advance Alternate Site MM9.1

Maine Turnpike Southern Toll Plaza Replacement Study



Discussion

Questions & Answers

Thank-You!

HNTB