# APPENDIX B

**Street Crossing Reports** 

# DH =

#### DeLUCA-HOFFMAN ASSOCIATES, INC. CONSULTING ENGINEERS

778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

### TRAIL-STREET CROSSING REPORT

EASTERN TRAIL MANAGEMENT DISTRICT - PIN 13340.00

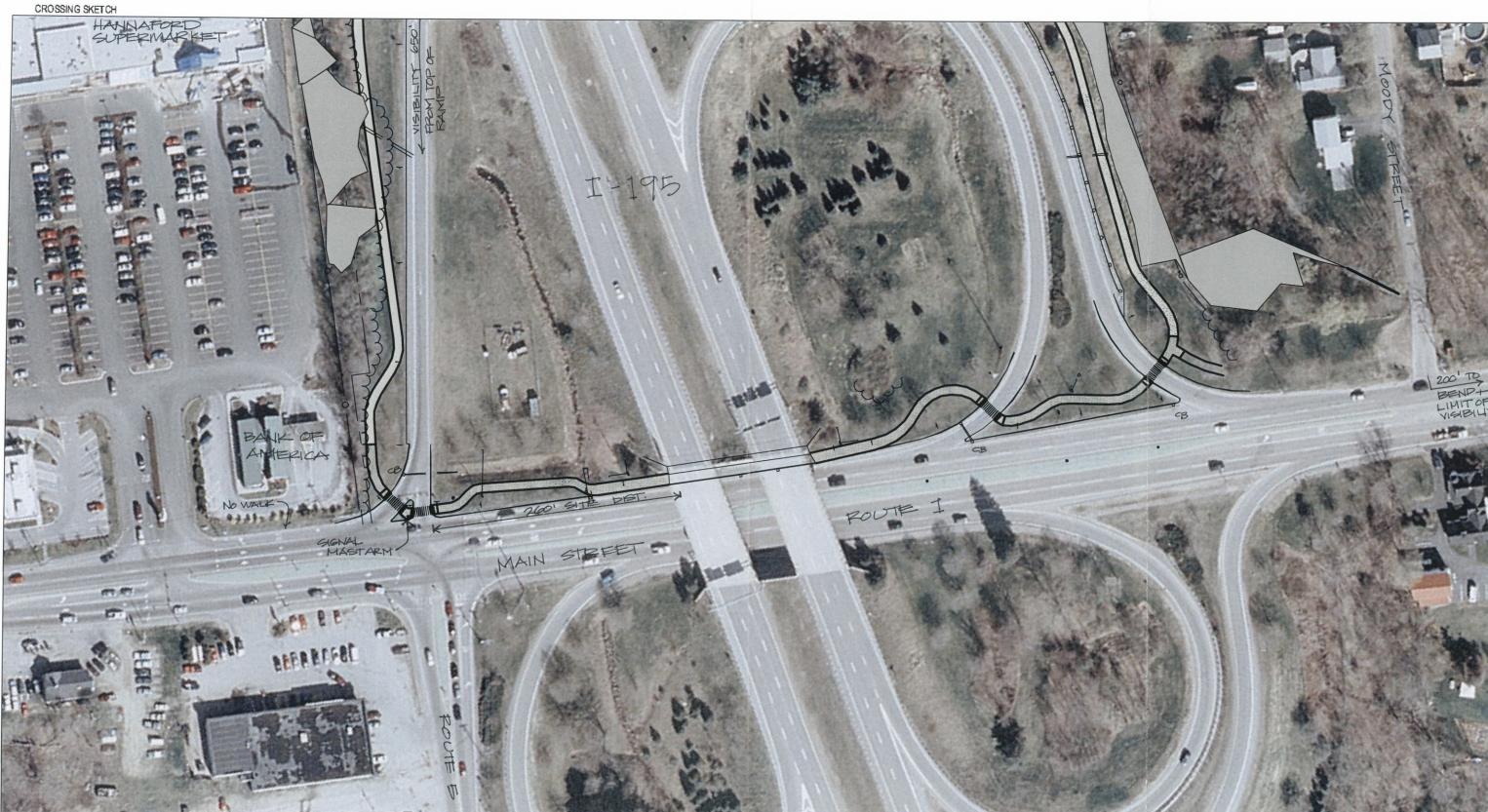
Date: 9-16-09

Report #1

**Road Name:** Route 1/I-195 eastbound off-ramp (southern ramp) Town/City Name: Eastern Trail Management District Trail Co. Name: Inspector(s): ☑ Shelley Brunelle, DeLuca-Hoffman Associates, Inc. **DHAI Job No:** 2869.00 The roadway posted speed limit is Ramp – 35 MPH; Rte 1 northbound – 30 MPH Rte 1 southbound - not posted The Sight Distance requirement is 35 MPH - 305 feet; 30 MPH - 250 feet 3. Is Horizontal Sight Distance met? YES NORTH NO NA **EAST** YES NO NA SOUTH YES NO NA WEST NO NA 4. What is actual field measured Sight Distance? NORTH 260' EAST 305'+ SOUTH 305'+ WEST 650' (from ramp) 5. Is Vertical Sight Distance met? YES NO NA 6. Are Horiz./Vert. alignment modifications recommended? YES NO NA 7. Is tree clearing/trimming required? YES NO NA Minor trim of low hanging Ash branches 8. Are trail approach grade improvements recommended? YES NO NA Is trail sight distance met? From intersection down trail: YES NO NA From trail toward intersection: YES NO NA 10. Is the crossing near a roadway intersection? YES NO NA Distance to intersection? at intersection Is the intersection signalized? YES NO NA

#### MISC. COMMENTS

Proposed trail alignment is parallel to U.S. Route 1 and crosses interstate access ramps. Incorporation of pedestrian signal phase recommended for trail crossing at ramp. Signage on ramp required to provide notice of crossing pedestrian movements.



SKETCH CHECKLIST

TRAIL AND ROADWAY

PAVEMENT MARKINGS

DRAINAGE FEATURES

AERIAL UTILITIES

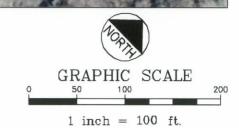
UNDERGROUND UTILITIES

RESIDENTIAL / COMMERCIAL DRIVEWAYS

PROPERTY FEATURES (WELLS, LEACHFIELDS)

OTHERS

- · ALLVERTICAL GRANITE CLYB, WEST SIDE OF ROAD
- · PAIGED CONCRETE ISLAND W MAST ARM, EAST BOUND OFF-RAMP
- · OVERHEAD UTILITIES PARALLEL TO ROUTE 1,





778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

#### **Trail Crossing Photos Eastern Trail Management District** Old Orchard Beach and Saco PIN 13340.00

Date of Photos 9-16-09

Town/City Saco

**Road Name** 

Route 1/I-195 Interchange – Eastbound off-ramp (southern ramp)



North View



West View



East View



South View

#### DeLUCA-HOFFMAN ASSOCIATES, INC. CONSULTING ENGINEERS 778 MAIN STREET SUITE 8

TEL. 207 775 1121 FAX 207 879 0896

SOUTH PORTLAND, MAINE 04106

#### TRAIL-STREET CROSSING REPORT

EASTERN TRAIL MANAGEMENT DISTRICT - PIN 13340.00

Report #2

Date: 9-16-09

Road Name:	Route 1/I-195 westbound on/off-ramp (northern ramps)						
Town/City Name:	Saco						
Trail Co. Name:	Eastern Trail Management Distr	Eastern Trail Management District					
Inspector(s):	☑ Shelley Brunelle, DeLuca-Ho	☑ Shelley Brunelle, DeLuca-Hoffman Associates, Inc.					
DHAI Job No:	2869.00						
1. The roadway p		Rte 1 northbound – 30 MPH Rte 1 southbound – not posted					
2. The Sight Dista	. The Sight Distance requirement is			30 MPH – 250 feet 35 MPH – 305 feet			
3. Is Horizontal S	. Is Horizontal Sight Distance met?			NO NO NO	NA NA NA		
4. What is actual	field measured Sight Distance?	NORTH EAST SOUTH WEST		>305 fee N/A >305 fee >305 fee	et		
5. Is Vertical Sigh	t Distance met?		YES	NO	NA		
6. Are Horiz./Vert	. Are Horiz./Vert. alignment modifications recommend			NO	NA		
7. Is tree clearing	Is tree clearing/trimming required?			NO	NA		
Minor trim of low hanging Ash branches							
8. Are trail approa	Are trail approach grade improvements recommended?			NO	NA		
9. Is trail sight dis	ance met? From intersection down trail:		YES	NO	NA		
	From trail toward intersection:		YES	NO	NA		
10. Is the crossing near a roadway intersection?			YES	NO	NA		
Distance to	Distance to intersection?						
Is the inters	section signalized?		YES	(NO)	NA		

#### MISC. COMMENTS

Trail parallels Route 1; ramps to/from westbound I-195.

There is a bermed area bordering the north edge of the I-195 on-ramp from Route 1. This grade requires modification to provide universal access to the ramped landing leading to the crosswalk. Curb ramps and pedestrian crossing signage are needed at each crossing.



778 MAIN STREET SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

# Trail Crossing Photos Eastern Trail Management District Old Orchard Beach and Saco PIN 13340.00

Date of Photos 9-16-09

Town/City Saco Road Name Route 1/I-195 Westbound Ramps



North view from on-ramp



North view from off-ramp



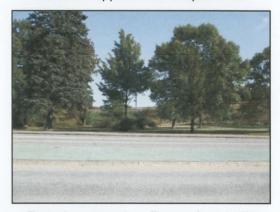
West view of on-ramp



East view opposite on-ramp to I-195



West view of off-ramp



East view opposite off-ramp from I-195



South view from off-ramp

778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

#### TRAIL-STREET CROSSING REPORT

EASTERN TRAIL MANAGEMENT DISTRICT - PIN 13340.00

NO

NA

YES

Report #3

Date: 9-15-09 Road Name: Moody Street Saco Town/City Name: Trail Co. Name: Eastern Trail Management District Inspector(s): ■ Shelley Brunelle, DeLuca-Hoffman Associates, Inc. **DHAI Job No:** 2869.00 The roadway posted speed limit is **25 MPH** 2. The Sight Distance requirement is 200 feet 3. Is Horizontal Sight Distance met? NORTH NA NO NO NA EAST SOUTH NO NA WEST NO NA 4. What is actual field measured Sight Distance? NORTH 500+ **EAST** 245 SOUTH 400+ WEST 345' 5. Is Vertical Sight Distance met? YES NO NA 6. Are Horiz./Vert. alignment modifications recommended? YES NO NA 7. Is tree clearing/trimming required? Heavy undergrowth YES NO NA 8. Are trail approach grade improvements recommended? YES NO NA 9. Is trail sight distance met? From intersection down trail: YES NO NA From trail toward intersection: YES NO NA 10. Is the crossing near a roadway intersection? YES NO NA Distance to intersection? (need measurement from plans)

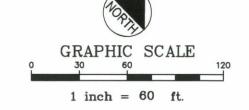
#### MISC. COMMENTS

Is the intersection signalized?

Provide visual (painted) connection to painted sidewalk from Sweetser School. Moody Street is a relatively narrow street with moderate traffic flow to/from the Sweetser School located at the end of Moody Street west of this crossing.









778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

## **Trail Crossing Photos** Eastern Trail Management District Old Orchard Beach and Saco PIN 13340.00

Date of Photos 9-15-09

Town/City Saco

**Road Name** 

Moody Street



North View



West View



East View



South View

# DH =

#### DeLUCA-HOFFMAN ASSOCIATES, INC. CONSULTING ENGINEERS

778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

#### TRAIL-STREET CROSSING REPORT

EASTERN TRAIL MANAGEMENT DISTRICT - PIN 13340.00

Report #4 Date: 9-17-09

Road Name: Town/City Name: Trail Co. Name: Inspector(s):		Cascade Road  Old Orchard Beach  Eastern Trail Management District  ■ Shelley Brunelle, DeLuca-Hoffman Associates, Inc.															
									DH	Al Job No:	2869.00						
									1.	The roadway posted speed limit is			45 MPH	5 MPH			
									2.	The Sight Distance requirement is			425 feet	feet			
3.	Is Horizontal Sight Distance met?			NORTH EAST SOUTH WEST	YES YES YES YES	NO NO NO	NA NA NA										
4.	What is actual field measured Sight Distance?		NORTH EAST SOUTH WEST	(need to measure) 275' (475' above 2') 425' 600'													
5.	Is Vertical Sight Distance met?				YES	NO	NA										
6.	Are Horiz./Vert. alignment modifications recommended?			YES	NO	NA											
7.	Is tree clearing/trimming required?			YES	NO	NA											
8.	Are trail approach grade improvements recommended?			YES	NO	NA											
9.	Is trail sight dista	ance met? From intersection down trail:		YES	NO	NA											
	From trail toward intersection:		ection:	YES	NO	NA											
10.	10. Is the crossing near a roadway intersection?			YES	NO	NA											
	Distance to	intersection	1?														
Is the intersection signalized?				YES	NO	NA											

#### MISC. COMMENTS

Approach from east: Beyond 275', the vertical curve of the road limits visibility of objects at street-grade at the crossing; objects taller than 2-3 feet can be seen from a much greater distance from the east. Signage highly recommended.

Inside curve limits visibility of south trail segment as approached from the west. Removal of tree and vegetative undergrowth to open views of the intersection with the trail is recommended.

Trail crossing near, but not directly on, valley of the road.

SKETCH CHECKLIST

TRAIL AND ROADWAY

PAVEMENT MARKINGS

DRAINAGE FEATURES

AERIAL UTILITIES

UNDERGROUND UTILITIES

RESIDENTIAL / COMMERCIAL DRIVEWAYS

PROPERTY FEATURES (WELLS, LEACHFIELDS)

OTHERS

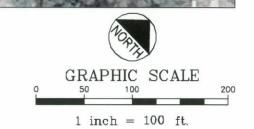
#### OLD GASCADE BOAD

- · ERCOION FROM EXISTING PATH

  · PAVEMENT CRACKED + SETTLED

  LOW AREAS NEAR WEST OF

  PAILFOAD ABUTMENTS





778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

## **Trail Crossing Photos** Eastern Trail Management District Old Orchard Beach and Saco PIN 13340.00

Date of Photos 9-17-09

Town/City Old Orchard Beach

**Road Name** 

Cascade Road



North View



West View



East View



South View



FAX 207 879 0896

Road Name:

Town/City Name:

Trail Co. Name:

Inspector(s):

778 MAIN STREET SOUTH PORTLAND, MAINE 04106

Old Cascade Road

Old Orchard Beach

#### TRAIL-STREET CROSSING REPORT

EASTERN TRAIL MANAGEMENT DISTRICT - PIN 13340.00

Report #5

**Date:** 9-17-09 Eastern Trail Management District Shelley Brunelle, DeLuca-Hoffman Associates, Inc.

DH	<b>Al Job No:</b> 2869.00					
1.	The roadway posted speed limit is		Not posted; assumed 25 MPH			
2.	The Sight Distance requirement is		Assumed 200 feet			
3.	Is Horizontal Sight Distance	e met?	NORTH EAST SOUTH WEST	YES YES YES YES	NO NO NO	NA NA NA
١.	What is actual field measur	ed Sight Distance?	NORTH EAST SOUTH WEST		60' 350' 25' 200' (dead er	nd)
i. Is Vertical Sight Distance met?				YES	NO	NA
6. Are Horiz./Vert. alignment modifications recommended			nded?	YES	NO	NA
7. Is tree clearing/trimming required?			YES	NO	NA	
	Are trail approach grade improvements recommended?			YES	NO	NA
	Is trail sight distance met?	From intersection down	trail:	YES	NO	NA
		Proposed alignment o From trail toward interse Limited view to west fi	ection:	YES	NO NO	uirements NA
	10. Is the crossing near a roadway intersection?				(iia)	
0.	Is the crossing near a roady	vay intersection?		YES	(NO)	NA
0.	Is the crossing near a roady Distance to intersection	•			ad end to we	

#### MISC. COMMENTS

- Very lightly traveled dead end road, serves one single-family residence.
- Vertical alignment modifications necessary for street-grade crossing to accommodate universal accessibility guidelines.
- Existing bridge abutments limit visibility from west; removal may be an alternative to accommodate accessibility and increase visibility. Signage is recommended.
- Evidence of standing water and poor to moderate pavement conditions may require attention during final design.
- Crossing could be overhead pedestrian bridge; however, structural analysis of existing concrete abutments is required.



778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

# Trail Crossing Photos Eastern Trail Management District Old Orchard Beach and Saco PIN 13340.00

Date of Photos 4-30-09 and 9-15-09

Town/City Old Orchard Beach

Road Name Old Cascade Road



North view of eastern side of abutment



West View - Paths on west side of abutments obstructed



East View



South view of eastern side of abutment; may not fall on ETMD property

# DH =

#### DeLUCA-HOFFMAN ASSOCIATES, INC. CONSULTING ENGINEERS

778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

#### TRAIL-STREET CROSSING REPORT

EASTERN TRAIL MANAGEMENT DISTRICT - PIN 13340.00

**Date:** 9-17-09

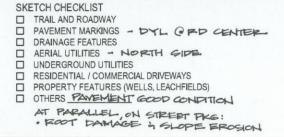
Report #6

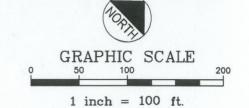
**Road Name:** Milliken Mills Road Town/City Name: Old Orchard Beach Trail Co. Name: Eastern Trail Management District Inspector(s): ■ Shelley Brunelle, DeLuca-Hoffman Associates, Inc. **DHAI Job No:** 2869.00 1. The roadway posted speed limit is 25 MPH 2. The Sight Distance requirement is 200 feet 3. Is Horizontal Sight Distance met? NORTH YES NO NA **EAST** YES NO NA SOUTH YES NA NO WEST YES NA NO 4. What is actual field measured Sight Distance? NORTH 500'+ EAST 385 SOUTH 400'+ WEST 185' 5. Is Vertical Sight Distance met? YES NO NA Are Horiz./Vert. alignment modifications recommended? YES NO NA 7. Is tree clearing/trimming required? YES West side of south trail segment NO NA 8. Are trail approach grade improvements recommended? YES NO NA YES 9. Is trail sight distance met? From intersection down trail: NO NA From trail toward intersection: YES NO NA 10. Is the crossing near a roadway intersection? YES NO NA Distance to intersection? 575' ± NA Is the intersection signalized? YES NO NA

#### MISC. COMMENTS

Inside curve limits visibility of south trail segment as one approaches from the west.

Visibility from south trail segment toward west is limited by the inside curve of the road and existing pines near trail.







778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

#### **Trail Crossing Photos Eastern Trail Management District** Old Orchard Beach and Saco PIN 13340.00

Date of Photos 9-17-09

Town/City

Old Orchard Beach

**Road Name** 

Milliken Mills Road



North View



West View



East View



South View



**Road Name:** 

Town/City Name:

Trail Co. Name:

Inspector(s):

**DHAI Job No:** 

#### DeLUCA-HOFFMAN ASSOCIATES, INC. CONSULTING ENGINEERS

778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

#### TRAIL-STREET CROSSING REPORT

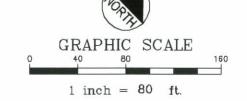
EASTERN TRAIL MANAGEMENT DISTRICT - PIN 13340.00

Report #7 Date: 11-2-09 Clark Street - Trail Terminus Saco Eastern Trail Management District ☑ Shelley Brunelle, DeLuca-Hoffman Associates, Inc. 2869.00 The roadway posted speed limit is Not posted – 25 MPH (assumed) The Sight Distance requirement is 200 feet 3. Is Horizontal Sight Distance met? NORTH YES NO NA YES EAST NO NA SOUTH YES NO NA WEST YES NO NA 4. What is actual field measured Sight Distance? NORTH 300'+ **EAST** 250 SOUTH N/A WEST 200' 5. Is Vertical Sight Distance met? YES NO NA Are Horiz. Vert. alignment modifications recommended? NO YES NA 7. Is tree clearing/trimming required? YES NO NA 8. Are trail approach grade improvements recommended? Trail crosses swale, grade descends to street elevation YES NO NA 9. Is trail sight distance met? From intersection down trail: YES NO NA YES From trail toward intersection: NO NA 10. Is the crossing near a roadway intersection? YES NO NA 200' to west; 350' to east Distance to intersection? Is the intersection signalized? YES NO NA

MICC	COMM	MENITO
IVIIOC.	COMIN	/IENTS









778 MAIN STREET SUITE 8 SOUTH PORTLAND, MAINE 04106 TEL. 207 775 1121 FAX 207 879 0896

# Trail Crossing Photos Eastern Trail Management District Old Orchard Beach and Saco PIN 13340.00

Date of Photos 11-2-09

Town/City

Saco

**Road Name** 

Clark Street - Trail Terminus



North View





West View

East View



South View