

Environmental ENF Notification Form

For Office Use Only
Executive Office of Environmental Affairs

EOEA No.: 13101
MEPA Analyst: Deirdre Buckley
Phone: 617-626-1044

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Concord – Route 2 Median Barrier Safety Improvement		
Street: Route 2		
Municipality: Concord	Watershed: Concord River Basin	
Universal Transverse Mercator Coordinates: 19 308619E 4701804N to 304611E 4702632N NAD 27	Latitude: 42° 26' 49" N to 42° 27' 12" N Longitude: 71° 19' 38" W to 71° 22' 34" W	
Estimated commencement date: Oct. 2003	Estimated completion date: Oct. 2006	
Approximate cost: 4 million	Status of project design: 100%complete	
Proponent: Massachusetts Highway Department		
Street: 10 Park Plaza		
Municipality: Boston	State: MA	Zip Code: 02116
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Lori DiDonato		
Firm/Agency: MassHighway	Street: 10 Park Plaza	
Municipality: Boston	State: MA	Zip Code: 02116
Phone: 1-617-973-7764	Fax: 1-617-973-8879	E-mail: Lori.DiDonato@mhd.state.ma.us

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?

Yes No

Has this project been filed with MEPA before?

Yes (EOEA No. _____) No

Has any project on this site been filed with MEPA before?

Yes (EOEA No. _____) No

Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:

a Single EIR? (see 301 CMR 11.06(8)) Yes No

a Special Review Procedure? (see 301CMR 11.09) Yes No

a Waiver of mandatory EIR? (see 301 CMR 11.11) Yes No

a Phase I Waiver? (see 301 CMR 11.11) Yes No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres): 20% MassHighway

Transportation Bonds and 80% Federal STP Funds

Are you requesting coordinated review with any other federal, state, regional, or local agency?

Yes (Specify _____) No

List Local or Federal Permits and Approvals: DEP File No. 137-689 Order of Conditions Issued April 10, 2002 (MassHighway is submitting a letter to the Commission requesting an Amendment to the OOC and approval of minor changes); Army Corps of Engineers Programmatic General Permit (Pending)

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|---------------------------------|---------------------------------------|--|
| <input type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input checked="" type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input checked="" type="checkbox"/> Other Permits (including Legislative Approvals) – Specify: ACOE Category II Programmatic General Permit (Pending) MassHighway is submitting a letter to the Commission requesting an Amendment to the OOC and approval of minor changes.
Total site acreage	14.02 acres			
New acres of land altered		7.01 acres		
Acres of impervious area	7.01 acres	3.37 acres	10.38 acres	
Square feet of new bordering vegetated wetlands alteration		911 sq. ft. of BVW		
Square feet of new other wetland alteration		940 sq. ft. of bordering land subj. to flood (28,650 cu. ft.) 17,839 sq. ft. of riverfront at Sudbury River		
Acres of new non-water dependent use of tidelands or waterways		N/A		
STRUCTURES				
Gross square footage	N/A			
Number of housing units	N/A			
Maximum height (in feet)	N/A			
TRANSPORTATION				
Vehicle trips per day	48,000 vehicles per day	0	48,000 vehicles per day	
Parking spaces	N/A			
WASTEWATER				
Gallons/day (GPD) of water use	N/A			
GPD water withdrawal	N/A			
GPD wastewater generation/treatment	N/A			
Length of water/sewer mains (in miles)	N/A			

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

Yes (Specify _____) No Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

Yes (Specify) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify NHESP database determined that the project may occur near or within actual habitats of, Mystic Valley Amphipod and Elderberry Long-Horned Beetle, state-listed species of "Special Concern". MassHighway is currently coordinating with the NHESP (see attached correspondence).) No

HISTORICAL / ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify MassHighway, in its project review, has found the proposed Route 2 improvements to be located within a portion of "Walden Woods", a property determined eligible for listing in the National Register by the Massachusetts Historical Commission (MHC). Based on the nature and extent of the project work, however, MassHighway has found the project not to adversely affect those characteristics of the property that make it eligible for National Register listing. MassHighway has submitted its "No Adverse Effect" finding for the project through the Federal Highway Administration (FHWA) to the MHC for review under the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended. The MHC's response to the MassHighway/FHWA's Section 106 "No Adverse Effect" finding is pending.) No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify _____) No

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify _____) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (You may attach one additional page, if necessary.)

MassHighway is proposing to install a median barrier to divide eastbound from westbound traffic along two non-connected segments of State Highway Route 2 in the Town of Concord to prevent crossover accidents. Segment A begins approximately 2,800 feet west of the Concord/Lincoln Town Line near Sandy Pond Road and proceeds westerly to the intersection with Walden Street (Route 126) a distance of approximately 0.55 miles. Segment A is adjacent to the capped Concord landfill and the Walden Pond State Reservation (Walden Woods). Segment B begins at Sudbury Road, proceeds westerly over the Sudbury River (Bridge No. C-19-021) and ends approximately 500 feet before the intersection with Old Road and Nine Acre Corner (at Emerson Hospital), a distance of approximately 0.6 miles. Segment B traverses through wetland resource areas associated with the Sudbury River. All work associated with this project will remain within the existing MassHighway Right of Way and will involve minor impacts to wetlands. See the attached USGS Quadrangle showing the limits of work.

Route 2 is an Urban Extension of a Rural Principal Arterial with a 100-foot right of way. The roadway was constructed in 1934 and resurfaced in 1996. The roadway cross-section is approximately 48 feet wide with two 11.5 foot travel lanes and one-foot outside shoulders in each direction separated by a double yellow centerline. The intersections at the project limits were constructed in the 1980's and have been widened to support turn lanes and concrete medians. Accident data indicates that accidents along the Route 2 facility have resulted in property damage and fatalities and injuries associated with head on collisions. The existing roadway immediately outside the project limits is a divided highway with a concrete "F" shaped median barrier.

MassHighway proposed to widen Route 2 along Segments A to the minimum allowable widths as set by MassHighway's design standards. Segment A will accommodate the proposed 2 foot wide concrete median barrier and a 5.75 foot inside left shoulder, two 11.5 foot travel lanes and an outside 8.2 foot right shoulder with 1.6 foot offsets to guardrail in each direction. Retaining walls will be constructed along portions of the eastbound outside shoulder to avoid impacts to adjacent resources. Segment B will accommodate a 2 foot wide median barrier with a 3.6 foot inside left shoulder, two 11.5 foot travel lanes and a 6.6 foot outside right shoulder with 1.6 foot offsets to guardrail in each direction. Segment B will be 7.5 feet narrower than Segment A and will also involve the construction of retaining walls in select locations in order to avoid and minimize impacts to wetland resources associated with the Sudbury River. Existing pavement will be cold-planed and overlaid with new pavement with full-depth pavement construction for the proposed widening. The proposed work on the Route 2 bridge over the Sudbury River will involve full-depth pavement reconstruction of the shoulders and installation of a 2-foot wide median barrier.

MassHighway has coordinated extensively with the National Parks Service, Walden Woods, the Brister Hill Advisory Group, the Town of Concord, and the Massachusetts Natural Heritage and Endangered Species Program (MNHESP) throughout the design process. As a result, many elements have been incorporated into the Route 2 design to avoid, minimize, mitigate and enhance the natural and cultural resources abutting the right-of-way. The proposed retaining walls will be constructed of an aesthetic textured wall system with the appearance of natural rock. Weathered steel guardrail is proposed instead of MassHighway's typical steel guardrail. Four animal crossing culverts will be constructed and an existing 30-inch cross-culvert will be improved with stone aprons within the project limits in order to aid in the safe passage of wildlife across the roadway. Given that there will be some tree removal, the project will provide tree and shrub plantings to replace lost canopy where practicable, within the project limits, per the guidance of the MassHighway Landscape Restoration Policy. A 1,611 square foot wetland mitigation area will replace the 911 square feet of permanently impacted Bordering Vegetated Wetlands and 34,930 cubic feet of flood storage compensation will replace the 28,650 cubic feet of impacted Bordering Land Subject to Flooding. Storm water runoff from the highway shall be treated per the Department of Environmental Protection's, "Storm Water Management Policy". Stormwater improvements include the installation of deep sump catch basins, outlets with stone energy dissipaters with broad crested weirs and water quality grass swales. Best management practices such as hay bales and silt fencing, stone berms and mulch and seeding will be used during construction to prevent the movement of sediment off site and into wetland resource areas. An Order of Conditions was issued by the Town of Concord, Division of Natural Resources Commission's in accordance with the Massachusetts Wetlands Protection Act in April of 2002. MassHighway is submitting a letter to the Commission requesting an Amendment to the OOC and approval of minor changes to BLSF impacts associated with changes to the subdrain design, walls and reduced offsets from guardrail. MassHighway is awaiting concurrence from the MNHESP supporting our findings that the project will not adversely affect adjacent habitats of the Mystic Valley amphipod or elderberry long-horned beetle.

This project requires the filing of an Environmental Notification Form in accordance with the Massachusetts Environmental Policy Act since the project involves the widening of an existing roadway by 4 feet or more for a distance of ½ mile or more (301 CMR 11.03 (6)(b)1.b.) and will alter of bank or terrain located 10 feet or more from the existing edge of pavement for ½ or more miles (301 CMR 11.03(6)(b)2.a.). *(See attached page, for alternative comparison).*