

Workshops:

Improving Stream Crossings: Flood Resilient, Fish Friendly

October 2013

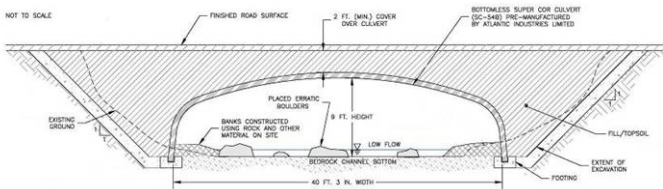
WHO SHOULD ATTEND:

Municipal highway, planning and DPW staff, municipal officials, conservation commissioners, engineering consultants, regional planning staff, state agency staff, environmental organization staff and volunteers.

TOPICS:

Statewide experts from all sectors will cover the following topics:

- ✓ The Value of Road-Smart Stream Crossings
- ✓ Stream Crossings Standards and Permitting
- ✓ Engineering Standards and Guidance
- ✓ Case Studies
- ✓ Technical and Funding Resources



SAVE A DATE:

Thursday, October 10th, Taunton

Thursday, October 17th, Wakefield

Tuesday, October 29th, Marlborough

For more information, or to register, visit the Bay State Roads website at <http://baystateroads.eot.state.ma.us/workshops/>

WORKSHOP DESCRIPTION:

When stream crossings fail, the results can be catastrophic for those living and working nearby. Hurricane Irene and other recent severe storms wreaked havoc on western Massachusetts roads, costing millions in damage and disrupting life in affected communities for months.

Road closures from culvert failures result in limited emergency access, longer commute times, and lost business revenue. Many crossings fail, in some cases repeatedly, due to their inability to pass high flows and the materials stirred up by the river at flood stage. These crossings require ongoing maintenance and repairs when they become plugged with debris.



In addition, undersized, shallow, or perched road stream crossings obstruct the passage of wildlife by interrupting the flow of the stream and forcing other wildlife out of the stream and onto the road where they are vulnerable to road traffic.

The good news is that stream crossings can be improved to increase both public safety and fish/wildlife passage. Three day-long workshops will give participants tools to improve road stream crossings. Each workshop will provide best practices and case studies on replacing road-stream crossings – topics include site assessment, engineering standards, permitting standards, funding and installation.

Crossings designed with rivers in mind – and meeting the Massachusetts Stream Crossing Standards – can safely pass huge volumes of water, sediment, and debris stirred up by high flows, and maintain safe passage for emergency personnel and residents. While initial installation costs for an open arch or bridge span may exceed traditional culvert approaches, the long-term costs are significantly reduced.

PLANNING PARTNERS:



Environmental Organizations: American Rivers, The Nature Conservancy, Trout Unlimited; OARS; Taunton River Watershed Council; Blackstone River Coalition; Ipswich River Watershed Association



Regional Planning Associations: Southeast Regional Planning & Economic Development District; Metropolitan Area Planning Council

Colleges and Universities: University of Massachusetts Amherst



State Agencies: Department of Fish and Game, Division of Ecological Restoration; Department of Transportation; Baystate Roads Program; Massachusetts Emergency Management Agency; Department of Environmental Protection; Massachusetts Environmental Trust



Engineering Consultants: Tighe & Bond, CEI Engineers



PRESENTING SPONSORS:

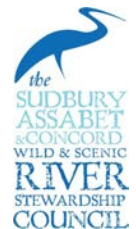


Massachusetts Environmental Trust
Since 1988, the Trust has dispensed over \$17 million through nearly 650 grants to

organizations which have made a remarkable impact on protecting and enhancing the state's water resources.

Sudbury, Assabet & Concord Wild & Scenic River Stewardship Council

The Council was established to coordinate the conservation of the 29-mile Wild and Scenic River segment of the Sudbury, Assabet and Concord Rivers.



Massachusetts Division of Ecological Restoration
The Division works to restore and protect the

Commonwealth's rivers, wetlands and watersheds for the benefit of people and the environment.



Taunton River Stewardship Council

The Council was established to coordinate the conservation of the entirety of the 40 mile long Wild and Scenic Taunton River.



Greater Boston Trout Unlimited

The Greater Boston chapter of Trout Unlimited collaborates with the Massachusetts Rivers Alliance and other partners to protect cold water streams.