



JTC Project Design Subcommittee Pavement Preservation Projects

At Pioneer Valley Planning Commission

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Prepared by MassHighway D2



Overview

- Federal Economic Stimulus Bill
 - Highway Investment
- “Shovel Ready” Projects
- Remainder of Stimulus Funds
- What is a “Book Job”?
- How to Get Started...
- Preliminary Design – 25% Submission
- Sample Early Environmental Coordination Items
- Design Public Hearing
- Initiate Final Design – 75% Submission
- Final Design – 100% Submission
- PS&E Submission
- Important Resources



Federal Economic Stimulus Bill

- \$787B bill signed by President
- President expects the bill will create/save 79,000 jobs in Massachusetts
- Massachusetts will receive \$6-9B in direct funding over next 2 years.
 - \$1B for infrastructure improvements



Highway Investment

- \$27.5B will be allocated for highway/bridge investment across the country
- Massachusetts will receive \$437.9M
- “Shovel ready” – Mass. must “commit” \$153M within 120 days of apportionment (obligate/advertise)
- Remainder of the funds must be “committed” within 1 year of apportionment; spent by 9/30/2015.
- Funds are administered according to Title 23. The bill does not permit funds to be spent in a “Chapter 90” manner.



Highway Investment

Breakdown of Massachusetts highway/bridge funding from the stimulus bill:

Mandatory Transportation Enhancements	\$13,135,958
Urban areas over 200K	\$110,122,871
Urban areas between 5K and 200K	\$14,593,517
Urban areas under 5K	\$6,643,189
Available for use any area	\$293,369,720
TOTAL DISTRIBUTION	\$437,865,255



“Shovel Ready” Projects

- Initial “Shovel Ready” projects must be advertised by early July 2009 (120 days from apportionment).
- Generally speaking, projects must currently be fully designed to meet this timeline.
- To be eligible, projects must be programmed on MPO TIPs. Public currently reviewing draft TIPs for 120-day “shovel ready” projects in each region.
- “Use It or Lose It” – If Mass. does not advertise projects in a timely manner we risk forfeiting funds. Applies to both the 120-day and the 1-year-from-apportionment timeframes.



Remainder of Stimulus Funds

- ▶ Hundreds of road and bridge projects are **potential candidates** for the remainder of the funds
- ▶ There are far more needs than funds available. Geographic equity is one of the guiding principles of the task force
- ▶ **The sooner it becomes clear your project can meet the “shovel ready” definition, the greater likelihood that it may be funded through the stimulus program**



Remainder of Stimulus Funds

- Work with MassHighway, your MPO and your transportation advisory committee to increase likelihood that your project is included in the stimulus program.
- Projects must be included on your MPO's TIP in order to be eligible for stimulus funds. MPOs expected to begin considering projects eligible for the remainder of stimulus funds in late spring/early summer 2009.
- Projects that already have an identified funding source (ex. federal earmark, Accelerated Bridge Program) will be unlikely candidates for stimulus funding.



Remainder of Stimulus Funds

What are critical milestones for highway projects on the way to being “Shovel Ready”?

- Approval as MassHighway project
- Completion of Design
- Right of Way Certification
- Environmental Clearance:
 - Wetlands Act – work in state wetland resource area
 - Army Corps of Engineers permit – work in federal wetlands/waters
 - Rare Species/MESA
 - Historic/s. 106 – local historic commission, MHC (by MassHighway)
 - MEPA – Is ENF required?
 - Hazardous Materials
 - Section 4(f) – Use of park / recreation / wildlife refuge / historic asset
 - NEPA – Is project Categorical Exempt (CE) from preparation of major environmental document?



What is a “Book Job”?

- Typically Book Jobs are simple pavement preservation resurfacing projects – “curb to curb”
- The main difference between a Book Job and a Standard project is the lack of full-size plans
 - *Explanatory sketches* that may be required can be included in Book Jobs, as 8.5” x 11” pages (i.e. wheelchair ramp information)
- Book Jobs follow standard MassHighway procedures and approvals
 - *Engineering Directives*
- Every Book Job is different – some may start out as a Book Job, then evolve into a Standard (full-size plans) project.



Project Initiation for MassHighway Advertising/TIP

Step Overview of Project Development

1 > Project Need Form (PNF)

- ▶ Latest forms available online:
 - ▶ <http://www.mhd.state.ma.us/default.asp?pgid=content/projectReview&sid=about>
 - ▶ Prepared by the Municipality. Completed forms are sent to the District.
 - ▶ Info about the current condition and need, incl. info about pavement, ROW, env. constraints (habitats, Historic Districts, etc)
 - ▶ District will review PNF and will recommend: 1) Not a good TIP project – Municipality should consider other funding source (i.e., Chapter 90); 2) Advance to Project Initiation Form, no further planning required or 3) Advance Project, but additional planning such as a traffic study, corridor study or planning study is needed.
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2 > Project Initiation Form (PIF)

- ▶ Latest forms available online:
 - ▶ <http://www.mhd.state.ma.us/default.asp?pgid=content/projectReview&sid=about>
 - ▶ Prepared by the Municipality. Includes locus map and final copy of planning report (if required).
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Project Initiation for MassHighway/TIP Advertising

Step Overview of Project Development (continued)

3 > Pre-PRC Meeting (Scoring Committee)

- Two weeks prior to PRC Meeting
 - Condition of primary/secondary assets (signal equip, pavement, etc)
 - Rehab Strategy (District can work with Municipality to develop)
 - Congestion (pre and post construction based on study)
 - Mobility for other users (bikes/peds)
 - ROW impacts
 - Safety Issues/Crash History
 - Business Effects/Econ. Development/Land Use
 - Environmental Effects
 - Neighborhood Effects
 - Community Support/Public Process
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How to Get Started...

Step Overview of Project Development (continued)

4 > Project Review Committee (PRC) Review

> <http://www.mhd.state.ma.us//default.asp?pgid=content/projectReview&sid=about>

> Meetings held quarterly (next one scheduled for May 14, 2009)

> Possible Outcomes:

- Approve the project for Advancement
- Table the project pending Additional Information
- Deny the project

District will notify the Municipality of PRC finding and other additional advice for advancement of the design.



Preliminary Design

25% Submission

Submittal Requirements

- Project Booklet:
 - Scope & Locus; Typical Section(s); Traffic Management Plans
- Early Environmental Coordination Checklist with supporting documentation
<http://www.mhd.state.ma.us/downloads/projDev/designSub.pdf>
- Preliminary Pavement Design
- Preliminary Cost Estimate (Participating/Non-participating)
- Investigate ROW requirements (if any)
- 25% Highway Design Review Checklist
http://www.mhd.state.ma.us/downloads/designGuide/ch_2_appendixA8_0608.pdf

Actions

- Review by MassHighway, FHWA (if required), and Municipality
 - Conduct Design Public Hearing
 - Obtain 25% Project Approval
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Sample Early Environmental Coordination Items

- Send out Historical Letters to LHC (copy SHPO & MassHighway CRU)
 - <http://www.mhd.state.ma.us/downloads/projDev/LHC-THPO.pdf>
- Submit Coordination Letters with a Scope & Locus to Mass Division of Fisheries & Wildlife, Mass Natural Heritage & Endangered Species Program and US Fish & Wildlife
- NHESP Review – Priority/Estimated Habitats
 - Review Project location on-line:
 - http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/priority_habitat/online_viewer.htm



Design Public Hearing

The conditions under which the 25% design public hearing is scheduled and coordinated are that:

- All 25% Design Comments have been addressed by the designer to the satisfaction of the MassHighway reviewing sections and the Project Manager; and
- Bridge Sketch Plans are received (if applicable)

Procedures:

- Coordinate a mutually convenient hearing date and time with the District Office, the responsible municipal contact and the designer; location must be ADA accessible
- The date chosen should provide the Project Manager with at least 42 business days to prepare the necessary documents and materials for the hearing.



Initiate Final Design

75% Submission

Submittal Requirements

- Project Booklet:
 - Responses to 25% Comments; Typical Section(s); Traffic Management Plans; Miscellaneous Details; Special Provisions; Draft Categorical Exclusion (CE) Checklist; Wetland Protection Act permits
- Develop Pavement Design – approval by Pavement Design Engineer
- Update Cost Estimate (Participating/Non-participating)
- Calculation Book
- Progress with ROW requirements (if any)
- 75% Highway Design Review Checklist

http://www.mhd.state.ma.us/downloads/designGuide/ch_2_appendixA9_0608.pdf

Actions

- Review by MassHighway, FHWA (if required), and Municipality
- Obtain 75% Project Approval



Final Design

100% Submission

Submittal Requirements

- Project Booklet:
 - Responses to 75% Comments; Typical Section(s); Traffic Management Plans; Miscellaneous Details; Updated Calculation Book; Updated Special Provisions
- Develop Traffic Control Agreement (if required)
- Update Cost Estimate (Participating/Non-participating)
- Finalize ROW Requirements and paperwork
- 100%/PS&E Highway Design Review Checklist

http://www.mhd.state.ma.us/downloads/designGuide/ch_2_appendixA10_0608.pdf

Actions

- Review by MassHighway, FHWA (if required), and Municipality
 - Obtain 100% Project Approval
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PS&E Submission

Submittal Requirements

- Project Booklet:
 - Responses to 100% Comments; Typical Section(s); Traffic Management Plans; Miscellaneous Details; Calculation Book
 - Final Cost Estimate (Participating/Non-participating)
 - Final Special Provisions
 - 100%/PS&E Highway Design Review Checklist
http://www.mhd.state.ma.us/downloads/designGuide/ch_2_appendixA10_0608.pdf
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Actions

- PS&E Completeness Review by MassHighway
 - ROW Certificate is issued (if applicable)
 - Environmental Clearance is issued
 - Submission of PS&E for Procurement
 - Advertisement
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Important Resources

➤ MassHighway's website

www.mass.gov/mhd

- *2006 Project Development & Design Guide*
<http://www.mhd.state.ma.us/default.asp?pgid=content/designGuide&sid=about>
- Project Review Committee Information
<http://www.mhd.state.ma.us//default.asp?pgid=content/projectReview&sid=about>
- Road Flaggers and Police Details Information
http://www.eot.state.ma.us/default.asp?pgid=content/police_detail&sid=about
- Engineering Directives
<http://www.mhd.state.ma.us//default.asp?pgid=content/engineering02&sid=about>
- Right of Way Information
<http://www.mhd.state.ma.us//default.asp?pgid=row/rowIndex&sid=level2>