OLD BUSINESS

1. Approval of the December 1, 2011, Meeting Minutes

The December 1, 2011, meeting minutes were approved.


At the November 5, 2009, meeting of the EOC, the formation of a Life Cycle Cost Analysis Technical Agenda task group was approved. The task group was charged with evaluating current practices and delivering recommendations to the EOC on a predefined set of subtasks of interest to MDOT. A team was assembled to work through the issues outlined in a memo signed by the Chief Operations Officer and the Bureau of Highway Delivery Director. Meetings with stakeholders, including industry associations and the FHWA, were conducted and comments were received and addressed. The final report, *Michigan Department of Transportation 2009-2010 Technical Agenda Report – Life Cycle Cost Analysis – Executive Summary, November 2010*, was presented to and approved by the EOC on December 1, 2010. The task group was directed to begin implementation of the recommendations contained in the report.

The final product necessary to implement the recommendations is MDOT’s *Pavement Design and Selection Manual*. The recommendations have been incorporated into the manual and are being brought to the EOC for approval.

**ACTION:** The EOC approves the *Pavement Design and Selection Manual* and directs the task group to begin immediate implementation of the recommended changes. A Bureau of Highways Instructional Memorandum explaining the revised life cycle cost analysis process shall be issued immediately. The EOC also approves the Pavement Design and Selection Policy (which will be included in the Road Design Manual).
3. **Completed and Pending LCCAs, with Respect to the Pending Update to the LCCA Process – B. Krom**

With the approval of the *Pavement Design and Selection Manual*, the process for determining the pavement selection will also change. A number of projects have a life cycle costs analysis that is ongoing or already completed using the previous pavement selection process.

Several projects have been deferred and are not in the current Five Year Plan. These projects have either had a life cycle cost analysis completed or in process at the time the project was deferred. When the projects are added to the Five Year Plan in the future, a new life cycle cost analysis will be requested by the regions and will be completed using the *Pavement Design and Selection Manual* in place at the time of the request.

A preliminary list of projects with completed and pending life cycle cost analysis was presented to the EOC with recommendations regarding the pavement selection on October 6, 2011. The recommendations were approved by the EOC, with the understanding that updated lists would be brought back for review upon approval of the new *Pavement Design and Selection Manual*. The project lists have been updated and are shown below with recommendations regarding the pavement selection process. Approval of the following recommendations is requested:

- LCCAs previously approved by the EOC for the following projects shall stand.
  - 52042-80147, US-41/M-28, Superior Region
  - 03023-90028, M-89, Southwest Region
  - 70081-105708 & 40542 & 113384, M-104, Grand Region
  - 78015-46269, US-131, Southwest Region
  - 35032-90192, US-23, North Region
  - 73111-87509, I-75, Bay Region
  - 70114-88889, M-231, Grand Region
  - 11021-45662, US-12, Southwest Region
  - 50012-47040, M-53, Metro Region
  - 44011-48945, M-24, Bay Region
  - 50011-80920, M-53, Metro Region
  - 58034-106877, US-23NB, University Region

- The following projects shall have a new LCCA completed when they are added back into the program (they are currently deferred and are not in the call for projects).
  - 63172-31673, I-75, Metro Region
  - 82111-47592, I-375, Metro Region
  - 82073-87112, M-85, Metro Region
  - 82073-87146, M-85, Metro Region

- The following projects have LCCAs currently in progress, have all required documentation for the LCCA submitted prior to the final approval of the 2012 manual, and will be done using the previous pavement selection process.
  - 17062-103229, M-28, Superior Region
  - 11016/11017/11112 – 49719, I-94/US-31 Interchange, Southwest Region
  - 77111/77023-85489, I-94/I-69 Interchange, Metro Region
  - 82122-89095, I-96, Metro Region
  - 82122-106952, I-96, Metro Region
  - 38131-103376, US-127, University Region

**ACTION:** EOC approves the recommendations listed above.
NEW BUSINESS

1. Statewide Design Alignment Team – B. Wieferich

The Statewide Design Alignment Team is being formed to facilitate alignment and consistency of design activities, the core functions required in performing preliminary engineering, throughout the department.

The primary role of the Statewide Design Alignment Team is to address all issues relative to the development of contract documents and supporting methodologies. The team will provide input to the region/bureau management team regarding issues of quality, efficiency, cost effectiveness, and related performance measures and outcomes. The team will provide technical recommendations to the Engineering Operations Committee regarding issues of design standards and procedures.

The team membership will include members from both the central office and from the regions. Other MDOT work areas shall be encouraged to use this group as a forum to discuss common issues, and will attend on an as-needed basis. Meetings will be conducted approximately every two months.

A draft guidance document has been developed and will supersede GD 10040 – Design Recommendations Committee.

Approval of the formation of the Statewide Design Alignment Team and corresponding guidance document is requested.

ACTION: The EOC approves the formation of the Statewide Design Alignment Team and the corresponding guidance document.

2. Turf Establishment – B. Wieferich

The department has had ongoing challenges with slope restoration, often due to competing interests with respect to design practices, inspection procedures, mobility/open to traffic constraints, and late season project completion and schedules. The combination of these issues can lead to poor turf establishment on projects that may ultimately lead to long term maintenance issues. Current issues include, but are not limited to:

- Late season installations often result in springtime failures.
- Project completion dates are often in conflict with seasonal limitations for planting.
- Projects are often accepted as complete before full turf establishment has been achieved.

It is recommended that the EOC establish a technical agenda item and task group that will address the ongoing issues with slope restoration on department projects and make recommendations to the EOC for improvement. A draft memorandum has been developed and contains the major tasks and deliverables for the assignment. Approval is recommended.

ACTION: The EOC approves the establishment of the technical agenda for Turf Establishment and the corresponding establishment of a task group to develop specifications and procedures that lead to improved slope restoration practices. The task group shall add trees and other plantings as secondary tasks. The memo shall be revised and submitted to the Chief Operations Officer for signature.
3. **Pavement Marking Technical Agenda Proposal – S. Thayer/M. Bott**

The proposed technical agenda is being recommended to evaluate the current Pavement Marking Program and make recommendations for improvement. The major tasks include:

- Evaluate MDOT’s Pavement Marking Program in meeting the goal of, “Providing our customers a pavement marking visible all year long (except when covered by snow) at a reasonable cost without delay to the motoring public.”
- Evaluate pavement marking program practices of other states with similar climates.
- Review innovative pavement marking materials, technologies, and construction contract practices.
- Recommend an implementation plan for MDOT’s Pavement Marking Program to help MDOT achieve its goal.
- Identify future Pavement Marking Program needs. Recommend priorities for the program if faced with funding reductions.

The scheduled deadline for completion is October 1, 2012. A draft memorandum with the assignment details, including major tasks, subtasks, and task group members has been submitted for approval.

**ACTION:** The EOC approves the memorandum that assigns the Pavement Marking Technical Agenda with the addition of the Engineer of Construction as a member.

Brenda J. O'Brien, Secretary

Engineering Operations Committee

BJO:lmw

cc: K. Steudle D. Jackson R. Jorgenson (FHWA)
L. Mester W. Tansil R. Brenke (ACEC)
EOC Members D. Wresinski G. Bukoski (MITA)
Region Engineers C. Libiran D. DeGraaf (MCA)
TSC Managers R. J. Lippert, Jr. D. Hollingsworth (MCA)
Assoc. Region Engineers B. Shreck J. Becsey (APAM)
D. Parker T. Phillips M. Newman (MAA)
M. DeLong J. Murner (MRPA)