

SENATE BILL No. 879

April 13, 2016, Introduced by Senator SHIRKEY and referred to the Committee on Transportation.

A bill to amend 1951 PA 51, entitled

"An act to provide for the classification of all public roads, streets, and highways in this state, and for the revision of that classification and for additions to and deletions from each classification; to set up and establish the Michigan transportation fund; to provide for the deposits in the Michigan transportation fund of specific taxes on motor vehicles and motor vehicle fuels; to provide for the allocation of funds from the Michigan transportation fund and the use and administration of the fund for transportation purposes; to promote safe and efficient travel for motor vehicle drivers, bicyclists, pedestrians, and other legal users of roads, streets, and highways; to set up and establish the truck safety fund; to provide for the allocation of funds from the truck safety fund and administration of the fund for truck safety purposes; to set up and establish the Michigan truck safety commission; to establish certain standards for road contracts for certain businesses; to provide for the continuing review of transportation needs within the state; to authorize the state transportation commission, counties, cities, and villages to borrow money, issue bonds, and make pledges of funds for transportation purposes; to authorize counties to advance funds for the payment of deficiencies necessary for the payment of bonds issued under this act; to provide for the limitations, payment, retirement, and

security of the bonds and pledges; to provide for appropriations and tax levies by counties and townships for county roads; to authorize contributions by townships for county roads; to provide for the establishment and administration of the state trunk line fund, local bridge fund, comprehensive transportation fund, and certain other funds; to provide for the deposits in the state trunk line fund, critical bridge fund, comprehensive transportation fund, and certain other funds of money raised by specific taxes and fees; to provide for definitions of public transportation functions and criteria; to define the purposes for which Michigan transportation funds may be allocated; to provide for Michigan transportation fund grants; to provide for review and approval of transportation programs; to provide for submission of annual legislative requests and reports; to provide for the establishment and functions of certain advisory entities; to provide for conditions for grants; to provide for the issuance of bonds and notes for transportation purposes; to provide for the powers and duties of certain state and local agencies and officials; to provide for the making of loans for transportation purposes by the state transportation department and for the receipt and repayment by local units and agencies of those loans from certain specified sources; and to repeal acts and parts of acts,"

by amending sections 1h and 1i (MCL 247.651h and 247.651i), section 1h as amended by 2008 PA 501 and section 1i as added by 2001 PA 259.

THE PEOPLE OF THE STATE OF MICHIGAN ENACT:

1 Sec. 1h. (1) The department shall develop and implement a
2 life-cycle cost analysis for each project for which total pavement
3 costs exceed \$1,000,000.00 funded in whole, or in part, with state
4 funds. The department shall design and award paving projects
5 utilizing material having the lowest life-cycle cost, **AND SHALL**
6 **CONSIDER THE ENTIRE LIFE-CYCLE COST OF THE PROJECT AND NOT JUST THE**
7 **INITIAL COST OF THE PROJECT IN DESIGNING AND AWARDED PAVING**
8 **PROJECTS.** All pavement design life shall ensure that state funds
9 are utilized as efficiently as possible.

10 (2) As used in this section, "life-cycle cost" means the total
11 of the cost of the initial project plus all anticipated costs for
12 subsequent maintenance, repair, or resurfacing over the life of the

1 pavement.

2 (3) Except as otherwise provided in this section, life-cycle
3 cost shall compare equivalent designs and shall be based upon
4 Michigan's actual historic project maintenance, repair, and
5 resurfacing schedules and costs as recorded by the pavement
6 management system, and shall include estimates of user costs
7 throughout the entire pavement life.

8 (4) For pavement projects for which there are no **RELEVANT**
9 Michigan actual historic project maintenance, repair, and
10 resurfacing schedules and costs as recorded by the pavement
11 management system, the department may use ~~actual~~ **EITHER OF THE**
12 **FOLLOWING AS A SUBSTITUTE FOR THE REQUIREMENTS LISTED IN SUBSECTION**
13 **(3):**

14 (A) **ACTUAL** historical and comparable data for **REASONABLY**
15 equivalent designs from ~~states with similar climates, soil~~
16 ~~structures, or vehicle traffic.~~ **ANOTHER STATE OR A FOREIGN COUNTRY**
17 **THAT OTHERWISE COMPLY WITH THE LAWS OF THIS STATE.**

18 (B) **PURSUANT TO AN EXPRESS WRITTEN REQUEST FROM THE DIRECTOR**
19 **OF THE DEPARTMENT AND SUBJECT TO LEGISLATIVE APPROVAL BY PASSAGE OF**
20 **A CONCURRENT RESOLUTION, SUFFICIENTLY SUCCESSFUL PRELIMINARY**
21 **RESULTS FROM A LAWFUL DEMONSTRATION PROJECT CURRENTLY UNDERWAY AS**
22 **DESCRIBED IN SECTION 11.**

23 Sec. 11. (1) Notwithstanding section 1h **AND SUBJECT TO**
24 **SUBSECTION (5),** the department may conduct not more than ~~4~~ **10**
25 pavement demonstration projects each year to evaluate new
26 construction methods, materials, or design **FOR HIGHWAYS, ROADS, OR**
27 **STREETS TO BE USED BY MOTOR VEHICLES, NO MORE THAN 4 OF WHICH MAY**

BE CONDUCTED FOR THE PURPOSES DESCRIBED IN SUBSECTION (2) (B) AND (C). The department may offer or conduct a pavement demonstration project that may be all or a portion of that project using either concrete or asphalt as determined by the department. Each demonstration project shall include measurable goals and objectives for determining the success of that project. The department shall **MEASURE THE INTERIM SUCCESS OF EACH DEMONSTRATION PROJECT EACH YEAR AND** make a final report for each demonstration project following the demonstration life of the project, which may be shorter than the actual pavement life of the material used for the project, that assesses the cost-effectiveness and performance of the pavement materials and design used in the project and compares the results to the pavement material identified under the department's standard pavement selection process.

(2) Demonstration projects shall be selected using any of the following criteria:

(a) Pavement designs intended to increase pavement life expectancy **IN A MANNER THAT WILL RESULT IN LOWERED LIFE-CYCLE COSTS.**

(b) Pavement designs intended to improve performance, including, but not limited to, friction, surface stress, reduction of noise, and improvement of ride quality.

(c) Comparisons of performance of various types of pavement.

(3) The total cost of contracts awarded for demonstration projects under this section using asphalt and concrete shall not exceed a difference of more than ~~20%~~**40%** between the respective paving materials in any **CONSECUTIVE** 2-year period. **NOTHING IN THIS**

1 SUBSECTION REQUIRES, OR SHALL BE CONSTRUED TO REQUIRE, THAT ANY
2 INDIVIDUAL DEMONSTRATION PROJECT BE DUPLICATED WITH BOTH OF THE
3 RESPECTIVE PAVING MATERIALS. As used in this subsection, "total
4 costs" means the initial engineer's estimated costs of the pavement
5 design portion of the project.

6 (4) The director shall provide an annual report, not later
7 than February 1 of each year, to the senate and house of
8 representatives transportation standing committees and the senate
9 and house of representatives appropriations subcommittees on
10 transportation regarding the status of each demonstration project.

11 (5) A LACK OF MICHIGAN ACTUAL HISTORIC PROJECT MAINTENANCE,
12 REPAIR, AND RESURFACING SCHEDULES AND COSTS AS RECORDED BY THE
13 PAVEMENT MANAGEMENT SYSTEM DOES NOT PRECLUDE THE DEPARTMENT FROM
14 CONDUCTING A PAVEMENT DEMONSTRATION PROJECT UNDER THIS SECTION.

15 Enacting section 1. This amendatory act takes effect 90 days
16 after the date it is enacted into law.