R2 4lr1323 CF 4lr1666

By: Senator Astle

Introduced and read first time: January 15, 2014

Assigned to: Budget and Taxation

A BILL ENTITLED

1	AN ACT concerning									
2	Transportation – Capital Projects – Life-Cycle Cost Analysis									
3	FOR the purpose of requiring the Department of Transportation to adopt regulations									
4	to establish a methodology for applying life-cycle cost analysis to the evaluation									
5	of certain pavement projects; requiring that the life-cycle cost analysis									
6	methodology address certain matters; requiring the Department to utilize the									
7 8	results of the life-cycle cost analysis for certain projects for certain purposes									
9	defining a certain term; and generally relating to life—cycle cost analysis o certain pavement projects of the Department of Transportation.									
10	BY repealing and reenacting, with amendments,									
11	Article - Transportation									
12	Section 2–103.1(c)									
13	Annotated Code of Maryland									
14	(2008 Replacement Volume and 2013 Supplement)									
15	SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF									
16	MARYLAND, That the Laws of Maryland read as follows:									
17	Article - Transportation									
18	2–103.1.									
19	(c) (1) The Consolidated Transportation Program shall:									
20	(i) Be revised annually; and									
21	(ii) Include:									
22	1. A list of:									



1	A. The current State transportation goals;
2	B. Program priorities; and
3 4 5	C. For projects in the construction phase, the criteria used to select major capital projects for inclusion in the capital program, a determined by the Department;
6 7 8	2. A statement of the Department's projected annua operating costs, set forth separately for the Office of the Secretary and for each moda administration;
9	3. Expanded descriptions of major capital projects;
10 11	4. A list of major capital projects for the current year the budget request year, and the 4 successive planning years;
12 13 14	5. A list of anticipated minor capital projects, including a specific list of anticipated special projects for the current year and the budget reques year and an estimate of the Program level for each of the 4 successive planning years;
15	6. A list of major bridge work projects;
16 17	7. A summary of the capital and operating programs, a defined by the Secretary, for the Maryland Transportation Authority;
18 19 20	8. For each listed major capital project, an indication whether the revenue source anticipated to support that project consists of federal special, general, or other funds;
21 22	9. The Department's estimates of the levels and source of revenues to be used to fund the projects in the Program;
23	10. A glossary of terms; and
24 25	11. A cross—reference table for the information contained in the various parts of the State Report on Transportation.
26 27	(2) In addition to the items listed in paragraph (1) of this subsection the Consolidated Transportation Program shall include:
28 29 30	(i) A summary of current efforts and future plans, prepared after consultation with the Director of Bicycle and Pedestrian Access and the Bicycle and Pedestrian Advisory Committee established under § 2–606 of this title:
31 32	1. To develop and promote bicycle and pedestrian transportation; and

1 2 3 4	accommodate in a reasonable distance stations;		and e	effective m	anner p	edestria	ins and	•	vithin a
5 6	expected to use Sta	(ii) te or fe		_	•	-	rian tra	nsportation	projects
7 8 9	technology—related this subtitle, along		et to be		m the ac	count e	stablish		, ,
10 11	(3) a report that:	Annua	ally, th	e Consolid	ated Tra	ansporta	tion Pro	ogram shall	include
12 13 14	bill or a supplement phase		budge	t amendm	ent firs		•	which the	_
15 16	are requested in th	(ii) e budg		-		jor capi	tal proj	ect for whic	h funds
17			1.	The amour	nt of the	funds re	quested	l; and	
18			2.	The total e	stimated	d cost of	the proj	ect;	
19 20	scheduling of major	(iii) capita		_		_		st, scope, de	sign, or
21 22 23	amount by which project estimate;	(iv) the ex			_		_	in cost, sta exceed the	
24		(v)	When	there is a s	significar	nt chang	e, state	s:	
25 26	during each comple	eted fis			nt by w	vhich co	sts exc	eed projecte	ed costs
27 28	capital project;		2.	The total a	ımount t	that has	been ex	xpended for	a major
29 30	includes:	(vi)	Provid	es a purj	ose and	d need	summa	ry stateme	nt that
31			1.	A general	descript	tion and	d summ	nary that d	escribes

why the project is necessary and satisfies State goals, including current State

32

$\begin{array}{c} 1 \\ 2 \end{array}$	transportation goals and Climate Action Plan goals required by the Greenhouse Gas Emissions Reduction Act of 2009 under § 2–1205(b) of the Environment Article;						
3 4	2. The location of the project, including a map of the project limits, project area, or transportation corridor; and						
5 6	3. A summary of how the project meets the selection criteria for inclusion in the capital program; and						
7 8 9	(vii) Includes any other information that the Secretary believes would be useful to the members of the General Assembly, the general public, or other recipients of the Consolidated Transportation Program.						
10 11 12 13	(4) The total operating and capital expenditures for the Department or for the Office of the Secretary or any modal administration projected in the Consolidated Transportation Program for the budget request year may not exceed the budget request for the Department, Office, or modal administration for that year.						
14 15 16 17	(5) For a major capital project to be considered for inclusion in the construction program of the Consolidated Transportation Program, a request must be submitted to the Secretary by the proposing entity along with a purpose and need summary statement justifying the project that includes:						
18 19	(i) The location of the project, including a map of the project limits, project area, or transportation corridor;						
20	(ii) The need for the project; and						
21	(iii) A discussion of how the project:						
22	1. Addresses State transportation goals; and						
23	2. Supports local government land use plans and goals.						
24 25 26	(6) (i) The Department shall evaluate requests for major capital projects based on the State's goals and, as appropriate, criteria as determined by the information submitted by the proposing entity and the availability of funding.						
27 28 29	(ii) As part of the evaluation under this paragraph, the Department shall acknowledge the difference between urban and rural transportation needs.						
30 31 32 33	(7) (i) The Department, in developing a construction or improvement project involving a bridge or other transportation facility that is adjacent to or crosses a waterway for inclusion in the Consolidated Transportation Program, shall consider any reasonable and appropriate measures to provide or improve in the						

- 1 vicinity of the bridge or other transportation facility water access for fishing, canoeing,
- 2 kayaking, or any other nonmotorized water dependent recreational activity.
- 3 (ii) The Department, in consultation with the Department of
- 4 Natural Resources and interested stakeholders, shall establish:
- 5 1. Standards and guidelines for identifying appropriate
- 6 bridges and other transportation facilities to be considered for the provision or
- 7 improvement of water access under this paragraph; and
- 8 2. Best practices and cost effective strategies for
- 9 accommodating water access under this paragraph.
- 10 (8) (I) IN THIS PARAGRAPH, "LIFE-CYCLE COST ANALYSIS"
- 11 MEANS AN ENGINEERING ECONOMIC ANALYSIS TOOL USED TO EVALUATE
- 12 ALTERNATIVE INFRASTRUCTURE INVESTMENT OPTIONS THROUGH THE
- 13 COMPARISON OF ALL COSTS ASSOCIATED WITH A PROJECT OVER THE EXPECTED
- 14 LIFE SPAN OF THE PROJECT, INCLUDING:
- 1. Construction, maintenance, reconstruction,
- 16 REHABILITATION, RESTORING, RESURFACING, AND LIGHTING COSTS;
- 2. Costs to users of the project, including
- 18 FUEL AND VEHICLE OPERATING COSTS; AND
- 3. ENGINEERING, DESIGN, INSPECTION, AND OTHER
- 20 COSTS EXPECTED TO BE INCURRED BY THE DEPARTMENT AND OTHER
- 21 GOVERNMENTAL AGENCIES IN ORDER TO MAINTAIN THE PROJECT
- 22 THROUGHOUT THE ANALYSIS PERIOD.
- 23 (II) THE DEPARTMENT SHALL ADOPT REGULATIONS TO
- 24 ESTABLISH A METHODOLOGY FOR APPLYING LIFE-CYCLE COST ANALYSIS TO
- 25 THE DEPARTMENT'S EVALUATION OF EACH PAVEMENT CONSTRUCTION,
- 26 RECONSTRUCTION, REHABILITATION, OR RESURFACING PROJECT INVOLVING
- 27 EXPENDITURE OF MORE THAN \$1,000,000.
- 28 (III) THE METHODOLOGY ESTABLISHED UNDER
- 29 SUBPARAGRAPH (II) OF THIS PARAGRAPH SHALL:
- 30 PROVIDE FOR THE APPLICATION OF LIFE-CYCLE
- 31 COST ANALYSIS TO ALL ASPECTS OF A PROJECT UNDER CONSIDERATION,
- 32 **INCLUDING:**
- A. DESIGN EQUIVALENT ALTERNATIVES FOR THE
- 34 **PROJECT**;

1 B.	THE	TIMING	\mathbf{OF}	ACTIVITIES	REQUIRED	TO
-------------	-----	--------	---------------	------------	----------	----

- 2 COMPLETE THE PROJECT;
- 3 C. THE TIMING OF MAINTENANCE AND
- 4 REHABILITATION ACTIVITIES OF THE COMPLETED PROJECT; AND
- D. THE UTILIZATION OF BEST PRACTICE COST
- 6 ESTIMATION PROCEDURES THAT TO THE EXTENT PRACTICABLE ACCURATELY
- 7 REPRESENT THE AGENCY'S EXPECTED EXPENDITURES OVER THE ANALYSIS
- 8 PERIOD;
- 9 2. Specify the criteria to be used in
- 10 EVALUATING THE PROJECT AND THE WEIGHT TO BE GIVEN TO EACH CRITERION;
- 11 AND
- 3. INCLUDE HISTORIC DATA, PROBABLE MATERIAL
- 13 COST ESCALATION, AND RELATED EXTERNAL FACTORS.
- 14 (IV) ON COMPLETION OF THE LIFE-CYCLE COST ANALYSIS
- 15 OF A PROJECT UNDER THIS PARAGRAPH, THE DEPARTMENT SHALL:
- 1. Utilize the results of the analysis in its
- 17 CONSIDERATION OF ANY CONTRACTS ASSOCIATED WITH THE PROJECT;
- 18 2. If the analysis reflects an estimated cost
- 19 DIFFERENCE BETWEEN THE VARIOUS DESIGNS OF 20% OR LESS, PROCEED TO
- 20 DESIGN AND BID THE PROJECT USING THOSE DESIGNS AND SPECIFY THAT A
- 21 MATERIALS PRICE ADJUSTMENT MAY NOT BE INCLUDED IN THE BID PROCESS
- 22 OR CONTRACT:
- 3. PROVIDE A WRITTEN STATEMENT TO THE
- 24 SECRETARY TO EXPLAIN THE REASON FOR AN AWARD USING A SOLUTION THAT
- 25 WAS NOT THE HIGHEST RATED SOLUTION UNDER THE LIFE-CYCLE COST
- 26 ANALYSIS;
- 4. Compile and make available to the public
- 28 IN A SEMIANNUAL REPORT THE INFORMATION SUBMITTED TO THE SECRETARY
- 29 UNDER ITEM 3 OF THIS SUBPARAGRAPH; AND
- 30 5. If there is a postcontract adjustment on
- 31 ACCOUNT OF AN INCREASE IN THE COST OF MATERIAL, INCLUDE THAT

- 1 INFORMATION IN THE SEMIANNUAL REPORT TO THE PUBLIC REQUIRED UNDER
- 2 ITEM 4 OF THIS SUBPARAGRAPH.
- 3 SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take effect
- 4 October 1, 2014.