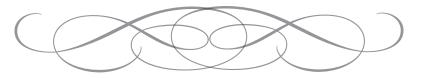


Task Force to Study the Applicability of the Maryland Prevailing Wage Law





Annapolis, Maryland March 2014

Task Force to Study the Applicability of the Maryland Prevailing Wage Law

Department of Legislative Services Office of Policy Analysis Annapolis, Maryland

March 25, 2014

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THE MARYLAND GENERAL ASSEMBLY Annapolis, Maryland 21401-1991 TASK FORCE TO STUDY THE APPLICABILITY OF THE MARYLAND PREVAILING WAGE LAW

March 25, 2014

The Honorable Martin J. O'Malley, Governor State House

Members, Senate Finance Committee Miller Senate Office Building

Members, House Economic Matters Committee Taylor House Office Building

Ladies and Gentlemen:

The Task Force to Study the Applicability of the Maryland Prevailing Wage Law respectfully submits its final report. The task force met five times, including three times during the 2013 interim and twice during the 2014 session. Pursuant to Chapter 402 (House Bill 1098) of 2013, the Task Force to Study the Applicability of the Maryland Prevailing Wage Law was authorized to examine Maryland's prevailing wage law as it applies to school construction projects. This report was written by Michael C. Rubenstein and David A. Smulski and reviewed by Tami D. Burt.

We would like to thank the members of the task force for participation in this complex and controversial matter. We would also like to acknowledge the cooperation and assistance provided by staff, government officials, and the public throughout the process.

Sincerely,

Allan H. Kittleman, Co-chair

John A. Olszewski, Jr., Co-chair

Thomas M. Middleton, Co-chair

AHK:TMM:JAO:SRS/DAS/ckt

Steven R. Schuh, Co-chair

Maryland General Assembly Task Force to Study the Applicability of the Maryland Prevailing Wage Law 2014 Membership Roster

Allan H. Kittleman, **Co-chair** Thomas M. Middleton, **Co-chair** John A. Olszewski, Jr., **Co-chair** Steven R. Schuh, **Co-chair**

Appointed by Senate President and House Speaker

James L. Doolan Donna S. Edwards Diane L. George George R. Nash, Jr. Aleksy L. Szachnowicz Gerard M. Waites

Ex officio

Alvin C. Collins, Secretary of the Department of General Services Leonard J. Howie III, Secretary of the Department of Labor, Licensing, and Regulation David G. Lever, D.A., Executive Director, Public School Construction Program

Staff

Michael C. Rubenstein David A. Smulski

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Task Force to Study the Applicability of the Maryland Prevailing Wage Law

Final Report

Prevailing wage laws date back to the Great Depression and so has the controversy. Prevailing wage laws generally require that workers on a public work performing a specific job or task are paid an amount per hour that is most common or "prevailing" in a specific geographic area. In addition to specifying wages, these laws include work rules that enforce or maintain labor standards for the benefit of employees. The federal Davis-Bacon Act serves as the model for state prevailing wage laws. Maryland enacted its prevailing wage law in 1969.

The purposes of prevailing wage laws are two-fold. First, the laws are intended to stabilize wages in an area by preventing employers from paying less than the amount commonly paid to workers in a region. Second, the laws prevent "unscrupulous" contractors from undermining local employment by "low bidding" on government contracts and/or importing workers at lower wages.

Although all prevailing wage laws are similar in intent, they vary in the methods used to calculate wages and the circumstances under which the laws take effect. Most laws have a minimum dollar amount or threshold for government contracts. A contract must be above the threshold and entail certain types of construction for the law to apply. The federal threshold is for all construction and maintenance contracts valued in excess of \$2,000. Maryland law requires that prevailing wages must be paid on any State construction project valued at \$500,000 or more and that is at least 50% State funded.

Prevailing wage laws have been the subject of controversy over the years. Opponents charge that prevailing wage laws:

- increase unemployment and the cost of public work projects;
- seldom are accurately calculated; and
- tend to favor union contractors.

Proponents of the laws contend that the converse is true; employers do not always pay the wages that prevail, and that prevailing wages pay a fair wage, one that yields greater income tax revenue and higher local employment.

In 2000, legislation was enacted that removed a restrictive requirement for the applicability or prevailing wage laws to school construction projects, by requiring that a school construction project receiving 50% or more in State funding is subject to State prevailing wage

requirements. School districts could opt out of the requirement by contributing 51% or more of the project's construction costs. For the past several years, legislation has been introduced that would have restored the prevailing wage law to its pre-2000 status, and conversely other legislation would have essentially subjected more school construction projects to Maryland law by altering the percentage to 25% or more in State funding. During the 2013 session, House Bill 1098, as introduced, was similar to the latter.

What was different regarding House Bill 1098 was that the House of Delegates passed an amended version of the bill that greatly expanded the applicability of the Maryland law to any construction project receiving State funds, regardless of the amount. The Senate rejected the House approach and proposed, ultimately with the concurrence of the House of Delegates, a Task Force to Study the Applicability of the Maryland Prevailing Wage Law.

The Task Force to Study the Applicability of the Maryland Prevailing Wage Law

Chapter 402 of 2013 established the Task Force to Study the Applicability of the Maryland Prevailing Wage Law. The task force's primary purposes are to:

- examine the current prevailing wage law and how it applies to school construction projects;
- analyze and examine school construction contracts bid as prevailing wage and nonprevailing wage contracts to determine the effect specified requirements may have on contract costs;
- analyze and examine prevailing wage and nonprevailing wage construction projects through the duration of the project to determine if project quality varies by contract type;
- study how local prevailing wage laws compare to Maryland law; and
- review other state prevailing wage laws, other studies on prevailing wages, and other matters that relate to the scope and application of the Maryland law.

Specific Background

The federal Davis-Bacon Act, originally enacted in 1931, requires contractors working on federal public works contracts valued at more than \$2,000 to pay their employees the prevailing local wage for their labor class, as determined by the U.S. Secretary of Labor. Thirty-two states

and the District of Columbia currently have prevailing wage laws; since 1979, nine states have repealed their prevailing wage laws.

Maryland adopted a prevailing wage law in 1945, but it only applied to road projects in Allegany, Garrett, and Washington counties. In 1969, the statute was amended to include State public works contracts of \$500,000 or more. There have been periodic changes to the law and the definition of "prevailing wage." In 1983, the law was broadened to include public works projects in which the State funds 50% or more of the total project costs and 75% or more in the case of public schools. Chapter 208 of 2000 reduced the prevailing wage threshold for public schools from 75% to 50% of construction costs, thereby bringing school construction projects in line with prevailing wage requirements for other public works projects.

The number and value of prevailing wage projects has risen dramatically in just two years. The Department of Labor, Licensing, and Regulation (DLLR) advises that its prevailing wage unit currently monitors more than 700 projects, compared with 187 in fiscal 2011 and 446 in fiscal 2012. The total value of those projects has also increased, from \$3.1 billion in fiscal 2011 to almost \$6.0 billion in fiscal 2014, which includes projects procured by local governments. In fiscal 2013, the DLLR's Prevailing Wage Unit investigated 625 project sites for prevailing wage compliance, recovered \$287,000 in unpaid wages on behalf of laborers, and collected \$86,000 in liquidated damages on behalf of the State and local governments. The unit has employed an average of three prevailing wage inspectors annually.

Five Maryland jurisdictions – Allegany, Charles, Montgomery, and Prince George's counties and Baltimore City – have local prevailing wage laws requiring public works projects in their jurisdictions to pay prevailing wages. The Montgomery County prevailing wage ordinance does not apply to school construction projects.

A Synopsis of the Current Law

"Public works" are structures or works, including a bridge, building, ditch, road, alley, waterwork, or sewage disposal plant, that are constructed for public use or benefit or paid for entirely or in part by public money. Contractors working on eligible public works projects in Maryland must pay their employees the prevailing wage rate. Eligible public works projects are those carried out by:

- the State; or
- a political subdivision, agency, person, or entity for which at least 50% of the project cost is paid for with State funds.

Any public works contract valued at less than \$500,000 is not required to pay prevailing wages. The State prevailing wage rate also does not apply to any part of a public works contract

funded with federal funds for which the contractor must pay the prevailing wage rate determined by the federal government.

Prevailing wages are wages paid to at least 50% of workers in a given locality who perform the same or similar work on projects that resemble the proposed public works project. If fewer than 50% of workers in a job category earn the same wage, the prevailing wage is the rate paid to at least 40% of those workers. If fewer than 40% receive the same wage rate, the prevailing wage is calculated using a weighted average of local pay rates. The State Commissioner of Labor and Industry is responsible for determining prevailing wages for each public works project and job category.

The Commissioner has the authority to enforce contractors' compliance with the prevailing wage law. Contractors found to have violated the prevailing wage law must pay restitution to the employees and liquidated damages to the public body in the amount of \$20 a day for each laborer who is paid less than the prevailing wage. If an employer fails to comply with an order by the Commissioner to pay restitution, either the Commissioner or an employee may sue the employer to recover the difference between the prevailing wage and paid wage. The court may order the employer to pay double or triple damages if it finds that the employer withheld wages or fringe benefits willfully and knowingly or with deliberate ignorance or reckless disregard for the law.

Regarding school construction, the State pays at least 50% of eligible school construction costs in all counties. Costs that are ineligible for State funding include, among other things, planning and design fees and movable objects or equipment (*e.g.*, furniture or bookshelves). Since total construction costs are higher than eligible construction costs, the State often pays less than 50% of total school construction costs in eight counties that receive a 50% State match of eligible costs.

The Governor must include at least \$385,000 in the budget each year for the Prevailing Wage Unit within DLLR. In addition, the University System of Maryland, Morgan State University, St. Mary's College of Maryland, and the Maryland Stadium Authority are exempt from the prevailing wage law.

Task Force Activities

To meet its charge, the task force met three times in fall 2013 and continued meeting during the 2014 session. During the first meeting, the task force discussed its charge by reviewing the requirements of Chapter 402. Appendix 1 is a copy of Chapter 402. Next the Commissioner provided an overview of the State Prevailing Wage Unit and its activities which are described in Appendix 2. The meeting concluded with the task force discussing the types of data it would like to review to determine how much paying prevailing wages may cost from bid through project completion (Appendix 3).

Task Force to Study the Applicability of the Maryland Prevailing Wage Law

The second meeting of the task force focused on factors that affect the cost of school construction from the perspective of the Public School Construction Program (PSCP) and reviewed various cost elements associated with the construction of a school, including project type, estimated project cost at contract, and State and local shares of the project cost. In cases of available "side by side" bid comparisons with prevailing wage requirements and without prevailing wage requirements, on average bids with prevailing wages came in at 10% higher (**Appendix 4**). The task force also reviewed data on school construction projects that closed within the past five years with the intent of determining whether projects with prevailing wages had an effect on the final project cost (**Appendix 5**). Due to the many variables associated with constructing a school construction project, the data was inconclusive, and the task force decided to delve further into the matter at the next meeting.

During its third meeting, the task force continued reviewing various prevailing wage data to determine whether paying prevailing wages on school construction projects affect initial and final project costs. Representatives from DLLR and PSCP presented data on 50 projects (**Appendix 6**). They concluded that the number of projects was not sufficiently large enough to draw reliable conclusions because of the extensive variation in project size, location, timing, and type. Although the data compared initial bid costs with final costs, there were no clear patterns or relationships between the two, and many factors besides prevailing wage rates contributed to final costs, according to Dr. Lever from PSCP. Therefore, the task force determined that no reliable conclusions could be drawn regarding the effect of prevailing wage requirements from a review of completed school construction projects in Maryland.

During the remainder of the third meeting, the task force heard a presentation on the PSCP's administrative procedures for reviewing and approving project requests (**Appendix 7**) and was briefed on the local process for bidding school construction projects by a representative from Frederick County who provided an example of a "side by side" bid comparison for a school construction project (**Appendix 8**). The third meeting of the task force closed with the co-chairs requesting a review of the studies submitted by the task force member representing the Washington, DC Building and Construction Trades Council and the task force member representing Associated Builders and Contractors.

During the task force's first meeting of the 2014 session, staff from DLLR presented the review of the literature provided by the task force members (**Appendix 9**). Before detailing the literature review, DLLR staff highlighted the fact that some of the 50 studies presented for review were discounted for various reasons, including that the data presented was not empirical or that the studies did not address the issue of total project cost. Most original research about cost differences between prevailing wage and non-prevailing wage projects was done when the prevailing wage laws were proliferating; later research contested the original research. Many criticisms focused on lack of appropriate comparison groups. Also, while bid data for a single project based on using prevailing wage and non-prevailing wage rates can be compared, there is no basis for comparing actual project costs for a single project, which are a more reliable measure of actual cost because projects are only built either using prevailing wages or not using prevailing wages.

In addition, the task force reviewed data on how changing the prevailing wage State share requirement from 50% through 80% of State share of construction costs would affect the PSCP, and the representative from the Maryland Association of Boards of Education provided "side by side" bid comparison information on selected Carroll County school construction projects (**Appendix 10**).

The task force's final meeting included a discussion of legislation that has been introduced during the 2014 session, which alters various prevailing wage threshold requirements, including:

- SB 204 Prevailing Wage Rates Reform Act of 2014;
- SB 232/HB 727 Procurement Prevailing Wage Applicability; and
- SB 1068 Procurement Prevailing Wage School Construction.

During the course of its activities, the task force received numerous position or white papers, as well as further bid comparison data on school construction from the Associated Builders and Contractors, an analysis of how much school construction funds stay in Maryland from Anne Arundel County, and information on other State thresholds for prevailing wage projects. This information is presented in **Appendix 11**.

Conclusion

Without any definitive data on the effect of prevailing wage rates on public work projects, particularly relating to the State public school construction program, the task force was unable to make any specific findings; therefore, the task force made no recommendations. There was disagreement among task force members regarding the estimated increase to costs associated with public works projects that are prevailing wage projects versus nonprevailing wage projects. Some task force members believed that the "side by side" comparisons (which suggested an approximate 10% cost increase) reviewed by the task force were a fair reflection of these price differences. Others believed that the DLLR review of empirical studies (which suggested there might be anywhere from no impact to a 3% increase) and the estimate provided by the Department of Legislative Services in its fiscal notes on prevailing wage legislation (which estimated a possible 2 - 5% increase) better reflected the potential costs of a change to prevailing wage law.

Appendix 1

Chapter 402

(House Bill 1098)

AN ACT concerning

Procurement – Prevailing Wage – Applicability Task Force to Study the Applicability of the Maryland Prevailing Wage Law

FOR the purpose of altering repealing a certain limitation on the applicability of the Prevailing Wage Law to the construction of a public work by revising a certain definition; establishing a Task Force to Study the Applicability of the Maryland Prevailing Wage Law; providing for the membership and cochairs of the Task Force; requiring the Department of Legislative Services, with assistance from the Department of Labor, Licensing, and Regulation, to staff the Task Force; providing that a member of the Task Force may not receive certain compensation but is entitled to certain reimbursement; providing for the duties of the Task Force; requiring the Task Force to report certain findings and recommendations, on or before a certain date, to the Governor and certain committees of the General Assembly; providing for the termination of this Act; and generally relating to the applicability of the Prevailing Wage Law.

BY repealing and reenacting, with amendments, Article – State Finance and Procurement

> Section 17–201 Annotated Code of Maryland (2009 Replacement Volume and 2012 Supplement)

SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND, That the Laws of Maryland read as follows:

Article - State Finance and Procurement

17_201.

(a) In this subtitle, unless the context indicates otherwise, the following words have the meanings indicated.

- (b) "Apprentice" means an individual who:
 - (1) is at least 16 years old;

(2) has signed with an employer or employer's agent, an association of employers, an organization of employees, or a joint committee from both, an agreement including a statement of:

-1-

Ch. 402

and

- (i) the trade, craft, or occupation that the individual is learning;
- (ii) the beginning and ending dates of the apprenticeship; and

(3) is registered in a program of the Council or the Bureau of Apprenticeship and Training of the United States Department of Labor.

- (c) <u>"Commissioner" means:</u>
 - (1) the Commissioner of Labor and Industry;
 - (2) the Deputy Commissioner of Labor and Industry; or
 - (3) an authorized representative of the Commissioner.
- (d) "Construction" includes all:
 - (1) building;
 - (2) reconstructing;
 - (3) improving;
 - (4) enlarging;
 - (5) painting and decorating;
 - (6) altering;
 - (7) maintaining; and
 - (8) repairing.
- (e) "Council" means the Apprenticeship and Training Council.

(f) (1) "Employee" means an apprentice or worker employed by a contractor or subcontractor under a public work contract.

- (2) "Employee" does not include an individual employed by a public body.
 - (g) (1) "Locality" means the county in which the work is to be performed.

Ch. 402

(h) "Prevailing wage rate" means the hourly rate of wages paid in the locality as determined by the Commissioner under § 17–208 of this subtitle.

- (i) (1) "Public body" means:
 - (i) the State;

(ii) except as provided in paragraph (2)(i) (2) of this subsection, a unit of the State government or instrumentality of the State;

(iii) any political subdivision, agency, person, or entity with respect to the construction of any public work for which [50%] 25% or more of the money used for construction is <u>FUNDED IN WHOLE OR IN PART WITH</u> State money; and

(iv) notwithstanding paragraph (2)(ii) of this subsection, a political subdivision if its governing body:

1. provides by ordinance or resolution that the political subdivision is covered by this subtitle; and

2. gives written notice of that ordinance or resolution to

(2) "Public body" does not include:

(i) a unit of the State government or instrumentality of the State funded wholly from a source other than the State; or

(ii) any political subdivision, agency, person, or entity with respect to the construction of any public work for which less than [50%] 25% of the money used for construction is State money.

(j) (1) Subject to paragraph (2) of this subsection, "public work" means a structure or work, including a bridge, building, ditch, road, alley, waterwork, or sewage disposal plant, that:

- (i) is constructed for public use or benefit; or
- (ii) is paid for wholly or partly by public money.
- (2) "Public work" does not include, INCLUDE:

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2013 LAWS OF MARYLAND

(I) <u>A STRUCTURE OR WORK WHOSE CONSTRUCTION IS</u> <u>PERFORMED BY A PRIVATE NONPROFIT INSTITUTION OF HIGHER EDUCATION,</u> <u>REGARDLESS OF PAYMENT WHOLLY OR PARTLY BY PUBLIC MONEY; OR</u>

(II) unless let to contract, a structure or work whose construction is performed by a public service company under order of the Public Service Commission or other public authority regardless of:

- (i) 1. public supervision or direction; or
- (ii) 2. payment wholly or partly from public money.
- (k) "Public work contract" means a contract for construction of a public work.
- (1) "Worker" means a laborer or mechanic.

(a) <u>There is a Task Force to Study the Applicability of the Maryland</u> <u>Prevailing Wage Law.</u>

(b) The Task Force consists of the following members:

(1) two members of the Senate of Maryland, one of whom shall be a member of the minority party, appointed by the President of the Senate;

(2) <u>two members of the House of Delegates, one of whom shall be a</u> member of the minority party, appointed by the Speaker of the House;

- (3) the Secretary of Labor, Licensing, and Regulation;
- (4) the Secretary of General Services;
- (5) the Executive Director of the Public School Construction Program:

(6) the following members appointed by the President of the Senate and the Speaker of the House:

(i) one member of the AFL-CIO;

(ii) one member of the Washington, DC Building and Construction Trades Council;

(iii) one member of the Associated Builders and Contractors:

(iv) one member from the Maryland Association of Counties:

one member from the Maryland Association of Boards of

Education; and

(vi) one member representing a local school system that solicits bids for school construction at the 50% threshold under the Prevailing Wage Law.

(c) <u>The Task Force shall be cochaired by the members from the Senate of</u> <u>Maryland and the House of Delegates.</u>

(d) <u>The Department of Legislative Services, with assistance from the</u> <u>Department of Labor, Licensing, and Regulation, shall staff the Task Force.</u>

(e) <u>A member of the Task Force:</u>

(v)

(1) may not receive compensation as a member of the Task Force; but

(2) is entitled to reimbursement for expenses under the Standard State Travel Regulations, as provided in the State budget.

(f) The Task Force shall:

(1) <u>examine the current Prevailing Wage Law and how it applies to</u> <u>school construction projects, including:</u>

(i) the current process as it relates to the Interagency Committee on School Construction procedures:

(*ii*) the determination of whether a project is bid as a prevailing wage or nonprevailing wage project:

(*iii*) how the current prevailing wage thresholds apply and affect bids for school construction projects; and

(iv) whether there are differences in the application of the Prevailing Wage Law based on project size and cost;

(2) <u>analyze and examine school construction contracts bid as prevailing</u> wage and nonprevailing wage contracts to determine the effect the following requirements may have on contract costs, including:

(i) <u>overhead costs associated with complying with the Prevailing</u> <u>Wage Law;</u>

(ii) other related contractor overhead costs that may apply;

(iii) fringe benefits provided to workers;

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2013 LAWS OF MARYLAND

- (iv) <u>licensing requirements;</u>
- (v) reporting requirements; and
- (vi) union requirements that may affect staffing levels;

(3) analyze and examine prevailing wage and nonprevailing wage construction projects through the duration of the project to determine if project quality varies by contract type, accounting for the following:

- (i) <u>local school system-driven modifications;</u>
- (ii) unforeseen condition modifications; and
- (iii) defective workmanship;

(4) <u>study how local prevailing wage laws compare to the Maryland</u> <u>Prevailing Wage Law;</u>

(5) review:

(i) other state prevailing wage laws;

(ii) other studies on the effect of prevailing wage laws on construction costs, community well-being, worker wages and income tax revenues, and State and local budgets; and

(iii) any other matter that relates to the scope and application of the Maryland Prevailing Wage Law.

(g) On or before December 31, 2013, the Task Force shall report its findings and recommendations relating to the effect of the Maryland Prevailing Wage Law on school construction to the Governor and, in accordance with § 2–1246 of the State Government Article, the Senate Finance Committee and the House Economic Matters Committee.

SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take effect July 1, 2013. <u>It shall remain effective for a period of 1 year and, at the end of June 30,</u> <u>2014, with no further action required by the General Assembly, this Act shall be</u> <u>abrogated and of no further force and effect.</u>

Approved by the Governor, May 2, 2013.

Appendix 2

Prevailing Wage Compliance

CONTRACTS FOR PUBLIC WORKS

The Division is responsible for implementing the prevailing wage law on covered public works contracts, ensuring proper classification of workers, rates of pay and conditions of employment. The Maryland prevailing wage law and regulations are intended to encourage the development of a high-skill, high-wage growth path for the construction labor market in public works contracting. Union and non-union contractors win public works jobs based on having the most productive, best equipped and best managed workforce. This creates a win/win situation for successful contractors and their workers.

The Prevailing Wage unit operates under authority of the State Finance and Procurement Article, Sections 17-201 through 17-226, *Annotated Code of Maryland*. Coverage of the Prevailing Wage Law extends to any contract for public works in excess of \$500,000 when State public funds are used to provide 50 percent or more of the funds for the project. A wage determination issued for a project specifies the wage and fringe benefit rates for each classification of worker determined to be prevailing in that locality for that type of construction.

The Prevailing Wage unit conducts a continuing program to gather current relevant wage data. Statistical information needed to issue wage determinations is obtained through annual surveys and from payrolls submitted by contractors. Wage determinations are issued for each locality in the State (23 counties and the City of Baltimore) and remain in effect for one year from the date they are issued. At the end of 2012, 577covered projects were under construction.

Activity for 2012		
Payrolls received	38,097	
Audits performed	9,714	
Determinations issued	297	
Estimated dollar amount of determinations issued	\$14,024,691,397	
Wages recovered for employees	\$651,033	
Liquidated damages collected for violations	\$141,430	

The Prevailing Wage Law requires contractors to submit certified payroll statements indicating proper worker classification and wages for both straight and overtime work. The payrolls are audited by field investigators to determine whether employees are paid according to the determinations issued. Together with information from field investigations and employee complaints, the audits frequently result in liquidated damages and restitution recovery for the employees.

The Division of Labor and Industry has seen increased compliance by contractors on Maryland public works projects, due in large part to the unit's outreach efforts prior to the start of construction.

SENATE TASKFORCE ON PREVAILING WAGE IN MD.

Jan-July 2013

Contractors on site 1083 Employees interviewed 4139 Restitution recovered \$146,639.00 # Employees receiving 212 Certified received 39,948 Jan-Dec. 2012

Contractors on site 1490 Employees interviewed 7068 Restitution recovered \$651,033.09 # Employees receiving 358 Certified received 34,963 Jan-Dec.2011

Employees interviewed 5583 Restitution recovered \$482,463.37 # Employees receiving 555 Certified received 56,904 Jan-Dec.2010

Employees interviewed 4206 Restitution recovered \$380,116.50 # Employees receiving 513 Certified received 42,066 Jan-Dec.2009

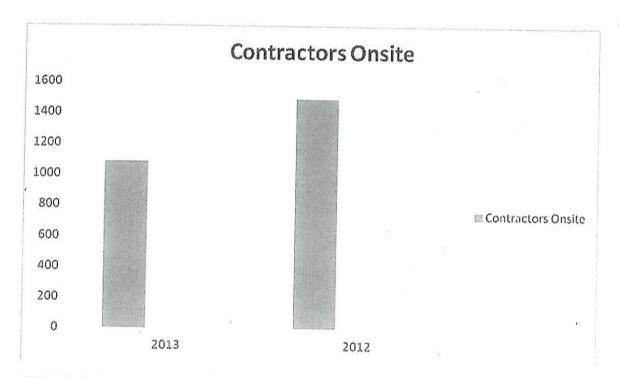
Employees interviewed3593Restitution recovered\$428,914.76# Employees receiving417Certified received43,828

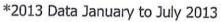
- The PW Unit has registered 251 State Procurement agents since going online in 2010.
- 1947 Contractors and employers have registered since 2010.
- 84 Unions and 10 Trade Associations have registered.
- The electronic certified payroll system collects on average 260 certified payrolls per day.
- The PW Unit no longer needs to store paper certified payrolls.
- Employee SSN's are no longer redacted by hand for an MPIA request which once took almost 4 weeks to complete on large request. Today a report can be generated the same day without exposing any of the employee's personal information.

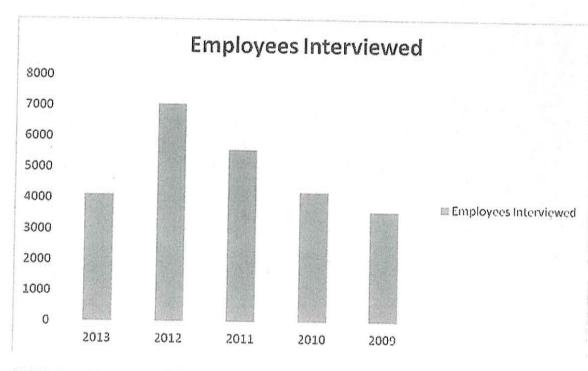
- The annual statewide survey process is now paperless.
 - 2009 survey submittals 500-600 approx.
 - 2010 survey submittals 9,888
 - 2011 survey submittals 7,688
 - 2012 survey submittals 5,833
- Features of Maryland's Electronic Certified Payroll System
 - Informational Statewide craft rates online for each county and craft and type
 - Procurement portal for requesting wages rates for each project.
 - Before the electronic system request for rates could take 3-4 weeks.
 - Today (Since 2010) wage rate request takes only a few minutes.
- Master Project's list
 - Every active project is listed on the website
 - Downloadable/Printable copy of wage determination
- Certified Payroll button
 - Employers can submit certified payroll 24/7 from any computer
 - Each employer can have as many people logged in and working as they want
 - Once payroll has been submitted, printable receipt for General Contractor
 - Bulk File submission process has been developed and is popular
 - Step-by-step directions are online for the process of aligning an employer's accounting system to the State's electronic process.
 - Several businesses have been expanded and created to process payrolls for employers that don't want to do it themselves. These employers also have the same company process their weekly payroll. Several businesses are located outside of MD and 1 is in Canada.

Both Manual and Bulk submittals have a printable receipt that is on State letterhead.

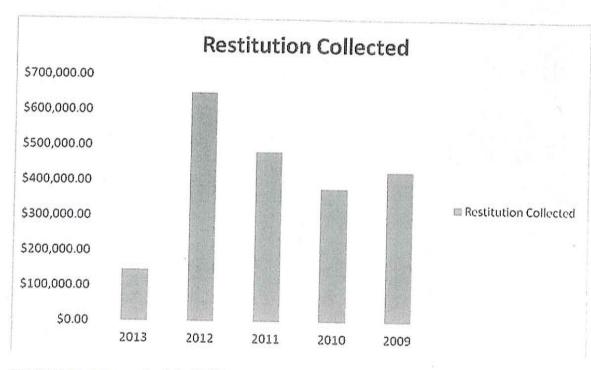
- General Contractor's Log
 - > GC's can view their sub's receipts thus eliminating the late payroll submission
 - GC's can request a close out of subs. (audit)
 - GC's can list all subcontractors for the MATC Fund.



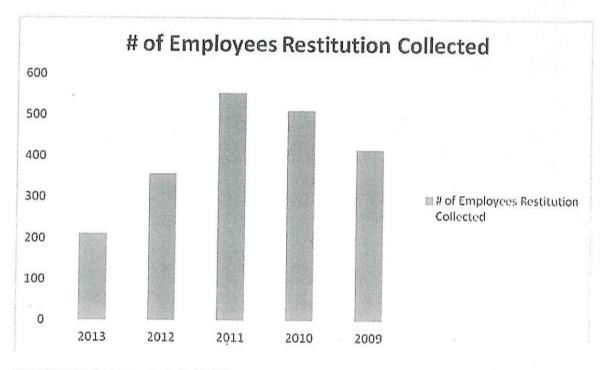




^{*2013} Data January to July 2013



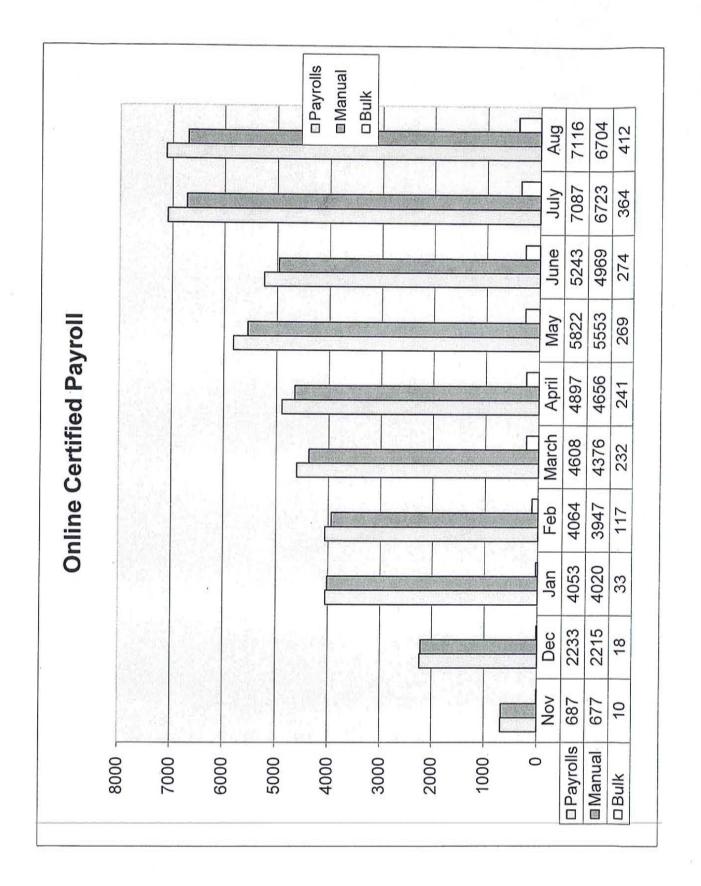
^{*2013} Data January to July 2013



^{*2013} Data January to July 2013



^{*2013} Data January to July 2013



IssueDate	Determinal ProjectNum	CountyC
6/7/2013	16673 01.014.2014	De la grootena o
6/18/2013	16757 03.097.13 ASP	
6/18/2013	16764 03.160.13 ASP	
3/14/2013	16099 PSC#05.008.13	
2/14/2013	15973 06.036.13SR	1
3/7/2013	16057 PSC 06.020.14C	2
3/13/2013	16092 PFP 13-041	1
8/27/2013	17261 2014CIP-18EEIP1-1213	1
8/27/2013	17268 2014CIP-18EEIP2-1213	1
8/27/2013	17275 2014CIP-18EEIP3-1213	1
	14188 PSCP #01.011.2013	
1/13/2012	14055 JMI-621-12-03-147-12	
1/3/2012	13922 JNI-787-12	
1/5/2012	13950 JNI-765-12	
1/5/2012	13957 JNI-766-12	
2/1/2012	14181 JNI-786-12	
11/2/2012	15539 04.002.12	
11/2/2012	15546 04.015.13	
3/19/2012	14496 06.015.2012 SR	1
3/26/2012	14531 06.018.013C	1
1/26/2012	14132 PSCP 06.025.13SR	1
12/19/2012	15756 PFP 13-022	1
2/1/2012	14195 PSC 08.046.11C REV	1
6/19/2012	15147 FGBAC 2-1213	1

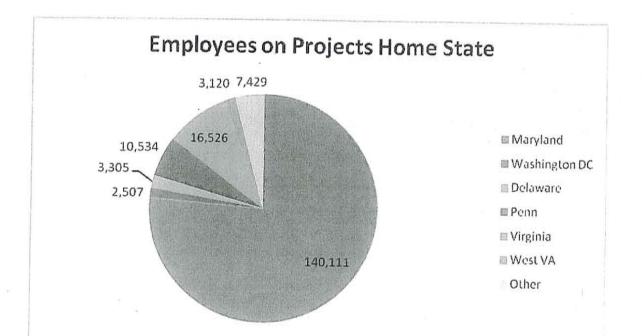
D	CountyName
1	001 - Allegany County
5	005 - Baltimore County
5	005 - Baltimore County
11	011 - Caroline County
13	013 - Carroll County
13	013 - Carroll County
15	015 - Cecil County
17	017 - Charles County
17	017 - Charles County
17	017 - Charles County

. ..

1 001 - Allegany County
5 005 - Baltimore County
9 009 - Calvert County
9 009 - Calvert County
13 013 - Carroll County
13 013 - Carroll County
13 013 - Carroll County
15 015 - Cecil County
17 017 - Charles County
17 017 - Charles County

ProjectName	DescriptionofWork	UserID
Westmar Middle Roof Replacement Phase 2	Removal and replacement o	140
Hereford Middle School - Air Conditioning Installation	installation of chiller and new	2330
Arbutus Elementary School - Air Conditioning Installation	installation of chiller, air han	2330
Preston Elementary School	Total renovation and additio	723
Roof Replacement at Westminster West Middle School	Replacement of approximate	142
Eldersburg Elementary School Open Space Enclosure Project	Conversion of five open space	
Rising Sun HS Roof Replacement	Complete removal of existin	478
Lighting Retrofits at 6 schools - FY 2014 CIP EEI	Lighting retrofit project for 6	703
Lighting Retrofits at 6 schools - FY 2014 CIP EEI	Lighting retrofit project for 6	
Lighting Retrofits at 6 schools - FY 2014 CIP EEI	Lighting retrofit project for 6	703

Fort Hill Roof Replacement, Phase 2	Removal and replacement o	140
REPLACEMENT OF WINDOWS, BLINDS AND DOORS-DEER PARK MIDD	Removal and replacement o	694
WoodLawn High School (03-050-12)	Replacement of windows, do	696
Replacement of Windows, doors and Blinds Chatsworth Elem	REPLACEMENT OF WINDOW	696
Window, Door and Blind Replacement Cedarmere Elementary	Peplkacement of Windows. I	696
	Replace thre styles of roofs	696
Mutual ES Systemic Renovation	Installation of a wet fire sup	149
Plum Point ES Roof Replacement	Replacement of approximate	149
Freedom ES Heat Plant Conversion	Removal of oil fired steam be	142
	Conversion of five open space	170
	Remove existing roof memb	629
Rising Sun ES HVAC Project	Replace rooftop HVAC equip	478
St. Charles High School	The project will consist of th	703
	Provide HVAC Roof top unit	703



* May 2012 till August 2013.

183,532 Employee Records 0 76.34% - MD - 140,111 8 1.37% - DC - 2,507 -1.80% - DE - 3,305 ŧI 5.74% - PA - 10,534 11 9.00% - VA - 16,526 詞 1.70% - WV - 3,120Q 4.05% - Other - 7,429 ß

The question is "How many Maryland Residents worked" on PW projects? The time frame was from May 2012 till August 2013.

28

Appendix 3

Data Relevant to Prevailing Wage in Maryland (DRAFT)

3 Years back

- 1. How many...
 - a. ...school construction projects?
 - b. ... prevailing wage, school construction projects?
 - c. ... non-prevailing wage, school construction projects?
 - d. ... include the political subdivision for each project.
- 2. Bid Cost of each project.
 - a. Number prevailing wage.
 - b. Number non-prevailing wage.
- 3. Close-out (or final) cost of each project.
- 4. Number of prevailing and non-prevailing wage projects based on cost threshold alone.
 - a. Include the political subdivision for each project.
- 5. Number of prevailing and non-prevailing wage projects based on % of state money alone.
 - a. Include the political subdivision for each project.
 - b. Include information where possible about the how much "ineligible" cost from state perspective is included in local percentage.
- 6. New school construction cost per square foot.
 - a. Cost per square foot of each project.
 - b. Average cost per square foot for new construction statewide.
 - c. Average cost per square foot for new construction on prevailing wage projects.
 - d. Average cost per square foot for new construction on non-prevailing wage projects.
- 7. Safety data with MOSH where possible for each project.
- 8. In state or out-of-state contractor (general & in each specification) where possible.
- 9. How many "double bids" (simultaneous bids & side by side bids) in the time frame?
- 10. Other questions?

Appendix 4

Short

FACTORS THAT AFFECT THE COST OF SCHOOL CONSTRUCTION: THE OWNER'S PERSPECTIVE David Lever

September 30, 2013

BID PRICES:

Competition: Number of bidders

- Availability of private sector work (easier schedules, rules are less complex (e.g. no MBE))
- Geographic location
- Jurisdictional location: stringency of regulations, payment structure
- Other work bidding on the same day (e.g. GSA, military)
- Other work underway concurrently (e.g. BRAC, NSA: draws down on supply of subs)
- Complexity of project: drives away some bidders
- Who the CM is

Size, Length And Complexity Of Project

- Size: economies of scale
- Length: risk increases for prices of end-of-project materials, equipment
- Complexity: integration of many systems, increase of project management

Timing Of Bid

Day of the week: Mondays are bad

Payment Structure

- Length of time from submission of requisition to payment
 → financing charges may be needed
- Retainage: reduction of retainage with time and performance, variable retainage per CSI division
- Prevailing wage or non-prevailing wage

Delivery Method:

- General contracting (GM)
- Construction Management Agency (CMA)
- Construction Management At-Risk (CMR)

Macroeconomic factors:

- Availability of materials and equipment
- Availability of labor
- Overseas competition for both
- Cost of importing labor

BID AND FINAL PRICE:

Clarity Of Documents

- Does bidder have to carry costs to cover areas that may not be clear in the documents?
- Will there be a large number of change orders due to errors and omissions?

Occupied or Not Occupied; Number Of Phases (renovation mainly, possibly replacement)

Need for mobilizations/de-mobilizations

 Adds to complexity of management, e.g. maintaining egress throughout, controlling dust and noise, testing schedules.

FINAL COST:

Project Management

- Review of documents
- Control of RFIs
- Control of change orders
- Punch list and warranty

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	Comments																																															
Avg Increase per	Bid Package	なからなかいた	to the second se	のであるの道法	が日本の	South States	3600'8		「日本のない」	が記録の見	日本での	の時間に見てい	407.0	したいとうない		ないのないない	時期間の時間の	政策的ない	4.48%		「「「「「「「」」」」		「「「ない」の		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						5,36%	たいで、「ないない」	いたいのないの	The second second	South and the second se	朝鮮語語	いたいというというの	Superior States	「日本の一日ののである」の	0.000 000 000 000 000 000 000 000 000 0	「協力の時間に		のの場合などのないので	Charles and a state	のと思いのです。		000000000000000000000000000000000000000	NAMES OF THE OWNER
%, of Increase for Prevaling Wages Total	Contract	7.87M	12.84%	18.7.6%	143,27%	2.13%		58-et-10:64%	A. 0.016 16 16 16	W12 E	N608/24/2827	X27,012%	1205-21	%8C'L	4.56%	162W	N000	121. H. B. W.	MAC BERRY	1112 0 112	N24.7	5.61M	9628'9	3.94%	1000 1 A	13.21%	4.01%	N0000		3/6/ 6	2.33%	1 3(9) (6)	MOBILITY AND	4,440%		AN INC.	Sept.	W/2 5/51%	0.074	1.47%	B 17%	1.%20°Z:1.1	2W19:0:2W2	W49.61	51-3161% cm	20.14%	0/m/21/15/45/45/5	\$600.0
	Alternates							44.44%	11.97%	12.50%	9.27%	17.65%	W.nn'07					-		5.01%	6.02%	6.02%	6.01%	8.64%	1.57%	11.63%	7.53%	%00'0	11.22%	17.47%	6.23%	%/R'/L	SUB21	D.28%		N 800'S	0.00%	4.17%	0.00%	4.55%	6.01%	0,60%	2.19%	31.58%	21.43% 5	26.88%	34.50%	100 5
% of Increase for Prevalling Wages Base	11.23%	2.87%	12.84%	16.76%	13.27%	2,13%	3.88%	8.33%	5,33%	3.22%	7.54%	9,99%	14891	7.39%	4.55%	9,62%	0,00%	1.81%	6.39%	9.27%	1,60%	5.56%	%16'S	3.26%	1.76%	13.58%	3.44%	0.00%	12.66%	1.32%	1.64%	MAR'NL	%ng'LL	46.18%		1.70'0	4.44%	5,52%	5.88%	7,48%	6.20%	2.47%	3.79%	20,06%	9.19%	19.93%	20.58%	0,00%
Total Contract without Prevaling	739:000		.869,900	854,746	927,000	1,067,200	1,082,000	1000'502	117,400	000'228	878,320	000 888,000	1.281.000	1,236,618	000'816'0	1,310,000	1,852,000	000,738,600	1,000,889,10	4,321,100	4 574,400	4,748,700	4'A'Z'300	5,260,000	1,133,172	1,353,500	1,450,800	1,565,000	1,395,449	1,794,800	2,149,000	-00012018	Contraction of the	8,108,200		nonfrance.	3 206 000	3,374,000	3.274/700	4,005,0001	3,047,000	3,933,500	03,758,700	000;083;000	出行073,000(1,133,000	001,249,3001	2,320,000-
Alternates without Prevailing	Selan	n Bé	100	3447	PCP4	1924	1992	45,000 5	23,400	8,000	27,884	0000	8 140	CW/2	2455	(Bert	#99	204	48.0	568,800	536,400	491,700	002,800	660,000 N	180.677	258,000	201,800	268,000	229,619	274,800	321,000 5	011,000 m	21.6.25	07.932	000 00	nnning	25,000 1	24,000 ==	23,800 10	22,000	466,000	834,500	647,000 部 200 000 部	(19,000) ==	28,000	34,000 8	51,300 %	•
Base Bld Cost without Provalling Wadoo	739,000	835,176	869,900	854,746	927,000	1,067,200	1,082,000	660,000	694,000	869,000	850,436	1 000,138	1.281.000	1,236,618	1,318,000	1,310,000	1,652,000	1,657,000	1,689,000	3,752,300	4,038,000	4,257,000	4,439,000	4,600,000	952,495	1,095,500	1,249,000	1,297,000	1,165,830	1,520,000	1,628,000	A 548 MM	5 582 240	5.240.000	000 100 5	nonitation of	3.181.000	3,350,000	3.251.400	3,963,000	2,681,000	3,099,000	3,112,700	1,012,000	1.045,000	1.099,000	1,198,000	2 838 000
Total Contract With Prevailing	822,000	859,176	981,600	000'866	11050,000	1,009,900)	1,124,000	180,000	157/200	806,000		1000 and 100	1,299,800	186,275,1	1,378,000	3.1,436,000	1(652,000)	000'289(1)	1797,000	4,697,500	4,913,700	5,015,100	2000-021-21	5,46/,000	1,152,808	1,532,250	1,509,000	1,565,000	1,568,800	1,882,800	UNU'RRL'Z	R.ME.MIN.	6 769 874	7,270,200)	10000 D1000	No. of the local division of the local divis	3,354,000	3,560,000	3,539,000	(4;304;000)	3,235,000	4,014,944		1000/061/1		1/361,140		-000 B38 000
Alternates with Prevalling Wanes		8-6	1	15.P	265	fall?	1964	65,000	26,200	6 000'6	30/468 S	3.2.57	10 2000 	306	100	357	696	194	1,234	597,300	568,700	521,300 B	147 000	556,500	183,514 %	288,000	217,000	268,000	255,389	322,800	541,000 B	DR3 DDD	2 44	6 (GQ	UND NC	5835	3 50,	25,000 80	16 61	10日。	494,000	839,500	25130	(25,000) 32	34,000 15	43,140 5	69,000	: :
Base Bid Cost with Prevailing Wares	822,000	859,176	981,600	998,000	1,050,000	1,089,900	1,124,000	715,000	731,000	897,000	290'418	1 184 000	1,299,900	1,327,981	1,378,000	1,436,000	1,652,000	1,687,000	1,797,000	4,100,200	4,345,000	4,493,800	000'101'1	4,770.000	969,294	1,244,250	1,292,000	1,297,000	1,313,411	1,540,000	1,000,000	5042 000	5.817.075	6,220,000	3 194 000	3 457 000	3,329,000	3,535,000	3,515,700	4,281,000	2,741,000	3,175,444	3,230,600	1,215,000	1.141.000	1,318,000	1,444,500 2 325 000	2,838,000
Contractor	Towson Mech	M&E Sales	EMJA	Mick's Plumb.	RW Warner	Denver Elek			National Roofing	Colo Booting	Simmon of Md	J&K Contracting	Tecta America E	Cole Roofing	Vatica Contract	CitiRoof Corp.	Autumn Contract	J&K Contracting			Keller Brothers	Homewood Gen. Hanrock & Alhanese	Brawner Builder	Bob Porter Co.	Vatica Contract	CitiRoof Corp.	Simpson of Md	Autumn Contract	Cole Roofing	Ieca America E	Towson Mach	Phillips Wav	M&M Welding	RW Warner	North Point Buildes	Hancock & Alhanoco	Keller Brothers	Homewood Gen.	William F. Klingensmith	Bab Porter Co.	Peak Incorp.	Saco Construction	Urban N Zink Contractor Ross Contracting	Callas Contractors	Chevy Concrete Construction	Caryon Contractors	Vance Bros. KaRon Masonry	George Moehrie Masonry
Project Type	Boller	Hallanada						Kool replacement		1			Roof replacemen						Manual and Annual and	New construction					Roof replacement						HVAC	replacement			1A - General	CONSUMERIA				OA SHO MARK 1	Utilities			3A - Concrete			4A-Masonry	
Bid Date							T	21/91/7					3/27/12	8					+	71/1/0					3/23/12						1/24/12				3/5/13													
Project Name	Freedom E.							mampstead E.					Elkridge E.						Mour Close	New ciem.					Manor Woods	Class,					Clarksville E.				New M. #20													
LEA	Carroll												Howard																				2															

9/30/13 Page 2 of 3

Public School Construction Program Listing of Projects that requested bids with and without Prevailing Wage Rates

Commode					1000 1000 1000 1000 1000 1000 1000 100																								Actual State participation in	project is less than 50%.											(1+)) (1+))																		
N dr Peraling Peraling Mages don Porales per Control Risbara	a Sound Linia	であるとないないので	12230 Carlotter	SWEET PLANE BANK	たいないないと	次のほうなのないので	「日本の法律法を加加	19	3%28'99'94'	見たないない	のないのないない	記念のいたの間のたけ	記記をあるが必要が	%RC:97	ť,	M85732000	Æ	101 B B K 10	大学のないないない	なな状態が認定	なるというないのである	「おややたんなりいちょ	いたのないのであるとう	「ないない」というないないです。	ALON PLANS	たちのあるというなどもの	「日本のないなくない」	2.43%	Sec. C	N TO BE STORE	5488;6	日本の	が見たいかか	現代になる	12.52%		Charles and the second second	のためのないのないの	Moc at	ないないとないである	時間にない	いたのである	なのないない	いたい日本のない	%62/12 South		Contraction of the second	のあってんたいたち	「日本の日本のです」のである	はいののものな	8.63%	のの時代のため	語言のないない	2.81%	の時代にい	記録の時代に成	学校が読むはい	「「ないたいないない」	201912
% of Increase for Prevailing Wages Total	7.421	WB0:23:08%	537	518%	3,38%	-%16°-3.31%+		100 CONCERNENCE	3:45%	19441544	たないというというない	22.03%	22.11%	M88.17	200.40	NAME OF COMPACT	THE DESTRICTION OF THE DESTRICTURE OF THE DESTRICTU	102 Bac	間のないまとい	W10510	10:66%	29017-6120-00	-X0-16.75%	W 28-B and a state	5.0051	12824	-5620 21-Scott	STOP10.96% PERMIT	JACK D.	States States	1×88;6	1.8.72%	- 12.77%	Hagar	20.25%	5.44%	A7 46%	Del oc	1989.0	9 000	6.32%	A33%	N-98'9	3/17%	14:65%	5.27%	B 111	TACK SOL	Support of the super-	WOB'LL'AND	12,88%	510%	W00.0	3632,3236	12,48%	6.01%	21,75%	24.34%	
% of Increase fo Prevailing Wages Alternates														Ī					1000	1,40%	9.83%	0.00%	1.25%	%00%	1.20.1	12.03%	13.36%	11.98%	16 EALL	24001	12.31%	8.37%	18.46%	4.53%	10.91%	7.03%	WOC CV	Nov oc	5 426/	8010	9.55%	12.83%	8.97%	8.22%	15.84%	7.34%	12.76%	NO YOU	al atta	2.11%	21.21%	3.53%	0,00%	8.89%	19.91%	7.53%	9.26%	9.23%	15.38%
% of Increase for Prevailing Wages Base Bid Cost	7.42%	23.08%	6.48%	5.18%	3.38%	3.37%	12.85%	5.30%	3.45%	41.54%		22.03%	22.11%	100'17	14:00%	AA 0637	19 0144	22.58%	Not Lt	224-11	10.68%	12.00%	WEL-11	all and all	14.00%	17.97%	15.13%	10.93%	9 44%	211.0	8.97%	8.73%	12.68%	8.47%	20.47%	5.39%	47.34%	SE ORM	R ROW	Nan o	9,22%	4.18%	6.83%	5.03%	14.63%	4.84%	7.57%	State .	2007	14.00%	300°0	5.11%	0.00%	3.29%	12.28%	5.97%	21.92%	24.58%	25.98%
Total Contract Without Prevailing	3,168,600	1872,000	2,115,000	2,835,000	SCP.1971 WAS	Mar.845,000	895,000	C.C.924 675:	DOOVZESSO	666,850	のなどのないない	713/740	769,000	1000 000	COMPONENT STATE	District 07 (150)	000 CP142	155 000	のないのないので	004040	6,285,800)	2000 97 8/000x	8,610,000	100,801,000	1002 2003 100	24.600.380	24,740,700	24,776,150	BTR'AFR	などのないない	B86[225]566	DOS STATE	B41,000	1,038,300	836,300	1.924:0005	1,589,400	- unn 347 w	SULLEY TUN	Contraction in the	000'859'0	1,0475700	1,083,500.	006,881,00	1,123,500	1,489,000	1,400,000	1001-239-4	いたのでいたのであるので	-notitie:E:	-nna'sejar	466,420	523,281	542,114	882,550	168,038	827,500	843,000	895.500
Alternates Without Prevailing Wages	1.5		•						-	1	nge n							10	ALL LOT	ist non	122,800	120,000					146,700		26,000	·····································	12,898 2	20,300	13,000 层	35,300	22,000	64,000	45,400	74 000 12	19.600 M	23 EAN	20'000 M	18,700	14,500	52,300 @	20,200	259,000	145.000	-	24 10	art 10	314,800 B	4,820	6,355	4,244	22,850	24,464	10,800	13,000 2	6,500
Base Bid Cost without Prevalling Wages	3,168,600	1,872,000	2,115,000	2,835,000	(/0//20	000 300	000,098	0/9,475	321,000	666,850		/13,/40	/69,000	and and	1000000	87 750	142,000	165,000	000 L00	non' len'n	6,163,000	0,001,000	0,430,000	0,000,000	4 446 000	4,478,000	4,694,000	4,633,000	904.919	atalias	3,210,000	669,000	828,000	1,004,000	914,300	1,857,000	1.524.000	1 655 000	1.497,800		1'000'000	1,029,000	1,069,000	1,134,000	1,103,300	1,240,000	1.255,000	1345 000	A DAE COO	1,455,000	1,400,000	461,600	517,906	637,870	859,700	936,433	816,700	830,000	889,000
Total Contract With Prevailing	3,403,600	2,304,000	2,252,000		nnn'ena	20001219000	100000 L0	10A9 010	-nnn'sca	943,850	におきのないのためで	1000 L/R	100018292810001	-10-24 GIADAS	CARACTER STOR	UUUC24CParter	169:000:	000,000	The Street of th	A SPECIAL STREET	56,958,000	-000 242 23	1.000+00-2	-DUDUUUUU	4.850.255	5,420,000	5,455,300	5/298/775:	1.017.875	Non-	3,544,598	792,000	848,400	20125,900	1,125,800)	2,025,500	2:309:600	2 348 000	1.618(300)	1 726 700	church and a second	-001/69010-	1,157,8001	1,247,600,	1,298,100	0,678,000	1,513,500	1:534:000	A DOD CEN	A CHO VED	1004/0001	0at 0at	523,261	560,255	992,700	1,018,645	1,007,500	1,048,200	1,127,500
Alternates with Prevailing Wages	П	招.	-	1		-	- -			1	28			1 12	1 1			- 25	130 000	-	135,000 22						166,300 #0		30.300	@	14,598	22,000	15,400 影	84) 1	24,400	190	300	98 000	20.500	13	21	84.2	6 <u>1</u> 2	运行	23,400	278,000	163,500	131		ADD ADD ADD	See Dot-ont-	4,330	0,355	4,668	御鮮	$\Sigma \mathcal{X}$	11,800	14,200	1,500
Base Bid Cost with Prevailing Wages	3,403,600	2,304,000	000'707'Z	000 000	000'000	1010001	100/010/1	210,030	202,000	943,850	000 720	000,000	4 002 000	749,384	344 374	127.200	169,000	190,000	7 450 mm	analasi ti	7 413 000	7 665 000	7 238 000	R 348 MM	4.700.000	5,282,900	5,289,000	5,139,475	987.375		3,530,000	760,000	933,000	1,089,000	1,101,500	1,957,000	2,245,000	2.250.000	1,597,800	1,700,000	1000000	1,0/2,000	1,142,000	1,191,000	1,264,700	1,300,000	1,350,000	1.350.000	1 285 750	1,000,000	non'non'i	460,200	517,906	555,587	965,300	992,339	995,700	1,034,000	1,120,000
Contractor	Masonry Incorporated	Kinsley Construction	CALINER ITON WORKS	Simneon of Mal	CitiDant Carls	Interstate	Cola Boofing	Autimn Contract	-	Can Am Contractors	Strates Contraction Inc.	1 A Arostotia Cont Ca	Elnishee Inc.	Tito Contractors	Allstate Floors & Construction	Tito Contractors	Argos Construction	J A Argetakis Cont Co.	R W Warner Inc.		Towson Machanicat	Hear Brothers, Inc.	M. Nelson Barnes & Sons. Inc.	Mallick Mechanical Contractors	Jan El Contracting Co.	Key Systems, Inc.	The Crown Electric Co.	BoMark Electric	Waynesboro Construction		Waynesboro Construction	Sody Concrete	Chevy Chase Contractors	Callas Contractore	Dance Bros.	Bragunier Masonry	Robert Sheckles	Manganaro	Steel Fab Enterprises	SA Halac Ironworks		Calles Contractors	KA Hall	Hancock Albanese	Building Systems	Kline	Interstate	Autumn Contract	CitiRoof Com	Heldlar	Endnored Canadamatica		Glass & Motals	Spear Window & Glass	Leonard Kraus	Cindell	Bullding Systems	Finishes, Inc.	JA Aretakis
Project Type		6A - Steel		7A. Donthon	Summer - Col				0A. Draidell 2	Acoustical				98 - Flooring		9E-Painting			15A - Mechanical						16A - Electrical				Window replacement	tiplipppidai	2G-SiteWork	guipling-AE		/		4A-Masonry			5C-Steel	combination	6A-General	trades				7A-Roofing					8A-Windows	01001114-1-00			er-cypsum &	children			
Bld Date				_										1										-	,		_		ZL/NS/L	- unone	Bribriz																												
Project Name																												Contraction of the	Smithsburg H.	1	bester clem.		1											ł															
LEA																												-	Masnington	and a start of the	Nasnington				1																							-	_

Public School Construction Program Listing of Projects that requested bids with and without Prevailing Wage Rates

	Commante																										
	No di Angle	and the second	に用いたのには、	2.85%		など語を読むまで	5.46%		の日のあたまで	「「「「「「「「「」」」	22.82%	P	B 31%	の時代の主人行為	ALC: NO. CONTRACTOR	語の記述の公	のないのであると	2012/10%	「「ない」の日本の	いたのであり	MS 224	「「「日本」	の時代ないため	2.81%		いずにないた	7.41%
	A of Increase for Prevailing Wages Total	000%	4.82%	4.04%	1%/28'0	172%	7977	A8.27%	20.26%	P 22 45%	1,00,0	2909/Z	14:02%	10,14%	M00:0	0.00%	16.85%	33,41%	1688°	20,33%	15:77%	-1-3.28%	3.23%	1,92%	22.78%	16,03%	7.41%
	% of Increase for Prevailing Wages Alternates	0.00%	0.00%	3.01%	0.87%	7.72%	7.79%	32,39%	25.00%					0.00%	0.00%	0,00%	25.00%	30.00%	0.00%	3.13%	25.00%				34.56%	15.63%	14.04%
2	% of Increase for Prevailing Wages Base Bid Cost	0.00%	4.33%	3.87%				49.72%	20.18%	22.19%	0.00%	2.60%	14.02%	10.23%	0.00%	0'00%	16,88%	0.60%	0.89%	20.90%	15.74%	3,28%	3.23%	1.92%	22.74%	16.03%	7.39%
	Total Contract without Provalling	108,780	122,873	129,892	109,750	104,834	108,864	90,261	118,000	131,400	235,310	127,100	114,000	0051225	233,000	247,250	0518/830	255,000	4.527,500	3,990,000	4,184,450	782,000	835,000	. 857,218	091,758,160	1,887,500	2,142,700
	Alternates without Prevailing Wages		(14,000)	(26,108)	109,750	104,834	109,864	2,294	2,000	2,600				1,500	5,000	2,250	2,000	3,000	28,500	128,000	14,000		10.5	50.6	8,160	16,000	5,700
	Base Bld Cost without Prevalling Wages	141,550	136,973	155,000				87,967	114,000	128,900	235,310	127,100	114,800	176,000	228,000	245,000	216,890	252,000	4,439,000	3,862,000	4,170,450	762,000	835,000	857,219	1,750,000	1,871,500	2,137,000
	Total Contract with Prevailing Wages	1082,300	128,898)	755,437	002/011	112,822	118,421	134/7375	139,500.	160,500	235,310	130,400	130,900	195,500	233,000	247,250	256,000	340/200	4,587,500	4,801,000	4,844,300	000 264	362,000	873,661	2,158,830	2,180,000	2,301,500
	Alternatos with Prevalling Wages	(34,770)	(14,000)	(26,863)	110,700	112,922	118,421	3,037	2,500	3,000 8	1427	1712	10.00	1,500	5,000	2,250	2,500	3,900	28,500	132,000	17,500 3	DS504	25.4	210	10,980	18,500	6,500 5
	Base Bid Cost with Prevalling Wages	141,550	142,898	161,000				131,700	137,000	157,500	235,310	130,400	130,900	194,000	228,000	245,000	253,500	336,300	4,539,000	4,669,000	4,826,800	787,000	862,000	873,661	2,147,950	2,171,500	2,295,000
	Contractor	DeGol Carpet	Frederick Tile	CB Flooring	Miller Flooring	Weyer's Floor Service	Mastercare Flooring	Crown Inc.	JA Argetakes	Argos Construction	Total Contracting	Frederick Tile	David Allen	Kennedy Fire Protection	Brewer & Co.	Capitol Sprinkler	Fire MAK	Judd Fire Protect	RH Lapp	RW Warner	MS Johnston	15B-Geothermal H&H Well Drilling	Chesapeake Geosystems	Jackson & Sons	Altimate Electric	Ellsworth Electric	Tissa Enterprises
	Project Type	9B-Flooring			9C-Wood floors Miller Flooring			9E-Painting				9F-Tiling		13A-Sprinkler					15A-Mechanical RH Lapp			15B-Geothermal			16A-Electrical		
	Bid Date											8/16/12	_					,									
	Project Name	,										Bester Elem.															
	LEA							_				Wasnington															

THE FOL

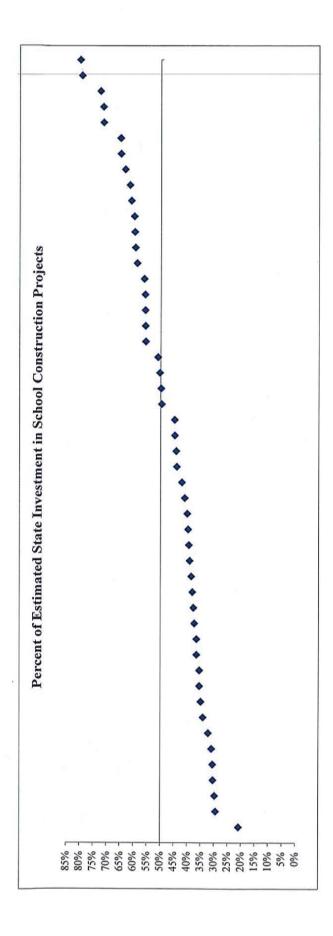
36

9/30/13 Page 3 of 3

	64% 75 Projects are in the 209 Projects				12% 205 Projects are in 234 Projects		1	1	*	
	64%		83%	の時間は	12%		14%			
Number of Projects Less than 50% State Participation in Contract	134	Total Contract Value, Projects Less than 50% State Participation:	\$1,082,274,788	and the second se	29	Total Contract Value, Projects Less than 50% State Participation:	\$6,373,213			
%	36%		17%	語詞加加	88%		86%			
Number of Projects Greater than 50% State Participation in Contract	22 12 12 12 12 12 12 12 12 12 12 12 12 1	Total Contract Value, Projects Greater than 50% State Participation:	\$216,950,687		205	Total Contract Value, Projects Greater than 50% State Participation:	\$37,998,878		Prevailing Wages Required	
	209	Total Contract Value:	\$1,299,225,475	34	234	Total Contract Value:	\$44,372,091	443 Projects		
	Projects Greater than or Equal to \$500,000				Projects Less than \$500,000					

	\$768.738.553 41/59 Split	\$10,233,607 77/23 Split	\$778,972,160 42/58 Split		0	<u> </u>	00	
Local Funds	\$768.738.55	\$10,233,60	\$778,972,16	\$70,691.254	\$698.047.299	\$6.420.579	\$3.813.028	\$778,972,160
State Funds	\$530,486,922	\$34,138,484	\$564,625,406	\$146,259,433	\$384,227,489	\$31,578,299	\$2,560,185	\$564,625,406
				16%	81%	3%	%0	
Total Contract Dollars	\$1,299,225,475	\$44,372,091	\$1,343,597,566	\$216,950,687	\$1,082,274,788	\$37,998,878	\$6,373,213	\$1,343,597,566
			~	17%	30%	46%	7%	
	209	234	443	75	134	205	29	443
	Projects Greater than or Equal to \$500,000	Projects Less than \$500,000		Greater than \$500,000 and Greater than 50% State Participation in Contract	Projects Greater than or Equal to \$500,000 but less than 50% State Participation in Contract	Less than \$500,000 but Greater than or Equal to 50% State Participation in Contract	Projects Less than \$500,000 and less than 50% State Participation in Contract	

Appendix 5



	ProjectName Mountain Ridge High Madaw Mddia	Project Type Replacement	High	ted Project Cost at C \$33,057,274 \$33,057,274	Total \$26,441,000 61 768 000	56,616,274 54,040 577	(estimate) 79.99%	date 11/8/12 0/20/12	165,382 165,382	1,000 PJ	PJ Dick. Jessup	2	SS N	Notes
Marley Middle		Replacement	Maddle	521,307,672	27,258,000	S14,049,672	34.06%	21/02/6	154,293	338 50	scores		N	1
Freetown Elementary	sentary	Replacement	Bementary	\$16,105,841	55,616,912	\$10,488,929	34.87%	61/61/9	82,460	239 30	scores		z	N. Start
Savan Osks Flamentary	critary	Naur	Clementary	30,823,544	24,432,442	24,33/,102	20.05%	SUITINS	1111/19		Aueu	2 2		
antucket (G	Nantucket (Gambrills) Flementary	New	Flamentary	Contractions of the service of the s	CC STO COD	Cal Toni mo	NOVOC	CUECIC	79 875	Cell er	crotec		2 2	
Incent Far	Vincent Farms Elementary	New	Elementary	\$39,229,676	S8.170.000	\$31,059,676	20.83%	2/19/13	90.132	569	scores		N	- Contraction
Huntingtown High	wn High	New	High	S30.783.000	\$15,268,368	\$15,514,632	49.60%	4/23/09	206,000	1 500 no		-		LEA asked for 49.6%
Calvert Middle	liddle	Replacement	Middle	\$24,983,210	\$13,520,000	\$11,063,210	55.72%	11/22/5		650 no				
arstow	Barstow Elementary (Calvert New E. #13)	New	Elementary	S17,694,885	\$12,643,632	55,051,253	71.45%	80/E1/11				*	N	
arrs Ri	Parts Biddos Flomontanu	New	Hamantan	213 245 615	ant the so	CC 628 007	SILLE US	chana	וונ בד	25 013	scores but G. E. Tignall	,	2	
bb Val	Ebb Vallev Elementary	New	Elementary	513 979 311	59 087 000	54 897 311	ES OPS	11/10/10	101.02	105	CODING VALICY INIGON		2	
orth B	North Point (Comprehensive) High	New	High	\$47,976,000	\$28,197,347	\$19,778,653	58.77%	4/23/09	311.270	1.600 00		~	N	
heado	Theodore G. Davis Middle	New	Middle	\$26,992,518	\$16,048,000	\$10,944,518	59.45%	4/23/11	134,542	1,148 no		*		
fary B	Mary Burgess Neal Elementary	New	Elementary	519,077,000	\$12,373,966	\$6,703,034	64.86%	11/22/6		00 16/		*		
rban:	Urbana Middle	New	Middle	\$18,701,773	\$6,624,426	\$12,077,347	35.42%	2/25/10		600 50	scores	N	z	A REAL PROPERTY OF
lakda	Oakdale High (East County)	New	High	\$60,604,707	\$24,851,000	707.ES7.3ES	41.01%	11/01/11	241.061	1.603 scores	ores	N	z	
usca	Tuscarora High	New	High	\$30,312,372	\$15,106,747	\$15,206,625	49.83%	10/61/6	257,062	1,606 50	scores	N	N	and a second
nsca	Tuscanora Elementary	New	Elementary	\$13,073,254	\$7,266,121	\$5,807,133	55.58%	11/16/07	86,938	sc 662 to	scores. largest from towson	*	N/A	
cnte	Centerville Elementary	New	Elementary	\$12,568,900	27,050,030	\$5,508,870	56.17%	50/11/6	87,175	w 605 PJ	waynesboro construction (office in PA and frederick)	*	z	
atte	Patterson Mill MAddle/Nisch	New	Middle /Hich	550 680 146	000 690 STS	535 ED1 146	29.71%	6/16/11	265 000	96 M M 1 635 M	scores but C&H Mechanical in Millorsville larrest	z	z	
1	bel Air Hinth	Bedscement	Hich	an in the	OM ACC 3C3	CCC 607 MM	3000 C2	CHECK	Din dea		scores but G. E. Tignall	2		
Πũ	Deerfield Elementary	Replacement	Elementary	\$29.327.040	\$10.946.126	\$18.380.914	37.32%	11/8/12	103.200		scores	N	N	The second
3	Bushy Park Elementary	Replacement	Elementary	523,171,513	\$7,158,732	\$16,012,781	30.89%	2/18/13	116,818		Dres	N	N/A	
2	Dayton Oaks (New Western) Elementary	New	Elementary	\$21,606,345	\$8,320,000	\$13,286,345	38.51%	2/19/13	116,818	910 sc	scores	N N	N	1
	Marriots Ridge High	New	High	533,692,283	\$14,163,118	\$19,529,165	42.04%	2/19/13	251,645	1,434 50	scores		N/A	1000 E 100
0 1	Veterans (new Northeastern) Elementary	Dardscenant	Elementary	518,/5/,9U/	DOD/HOS/SC	510,493,507	201308	ET/ET/2	116,818	22 226	scores	N	2 3	
18	Roscoe R. Nix Elementary (Northeast Consortium E #16)	New	Elementary	STS. 434 300	\$4,702,000	\$10,732,300	307702	12/3/09		607 mo			N	1000
2	Great Seneca Creek Elementary [Northwest Area E #7]	New	Elementary	\$17,780,138	\$6,302,000	S11,478,138	35.44%	11/8/12		646 no			z	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
B	Somerset Elementary	Replacement	Elementary	\$11,426,138	\$4,168,594	\$7,257,544	36.48%	6/18/09	80,122	512 no		N	N	A State of the
-8	Lakelands Park (Quince Orchard #2) Middle	New	Middle	\$19,075,000		S11,891,549	37.66%	6/18/09		1,121 mo		100	N	
쁥	Little Bennett Elementary (Clarksburg/Damascus E.#7)	New	Elementary	\$16,281,000		\$9,916,000	39.09%	11/8/12		670 no			z	N T N
	Downcounty Consortium Elementary #28 (Arcola E)	Replacement	Elementary	S15,434,300		59,359,300	39.36%	11/8/12	85,469	S72 no			N	
	College Gardens Liementary	Heplacement	clementary	540,514,230	28,053,404	512, CO(852	33.63%	21/8/11	385'98	6/3 20	scores	N I	2	
51 -	Dr. Henry A. Wite Ir. High (Recional High)	New	High	C76 319 000	245 548 000	oca,occ.cc	20.0274	CUICZ/2	11,200	2 606 100	no no	- >	2 2	
	Suitland (Homer Avenue) Elementary	Replacement	Flementary	\$13 056 860		SS 240 860	Sq 20%	11/02/2	76.323	790 00			2	
1.2	Mary Harris "Mother" Jones Elementary	New	Elementary	\$12,603,980		54,848,980	61.53%	9/23/10	76,842	802 110		,	N/A	
.0	Northview Blementary	New	Elementary	\$13,844,500		53,968,667	71.33%	9/23/10	77,646	on 988		*	z	
53	Matapeake Middle	New	Middle	\$24,733,200	\$11,054,000	\$13,679,200	44.69%	6/14/12	110,427	785 10		>	z	PW even though < 50% state
ŭ	George Washington Carver Elementary	Replacement	Elementary	\$13,374,900	\$6,823,000	\$6,551,900	51.01%	6/14/12	61,385	507 no		7		
18	Evergreen Elementary	New	Elementary	\$20,320,497	\$12,398,000	57,922,497	61.01%	11/8/12	74,227	644 no		7	~	
	Somerset Intermediate School at Tawes	New	Middle	\$18,245,819	\$14,480,000	\$3,765,819	79.35%	4/21/11	77,652	404 50	scores	*	z	
	Maugansville Elementary	Replacement	Elementary	\$15,482,000	56,801,947	S8,680,053	43.93%	4/21/11	91,586	735		N	N	
	Pangborn Elementary	Replacement	Elementary	\$17,035,084	\$7,619,087	\$9,415,997	44.73%	9/22/11	88,116	745	scores	N	N	LEA asked for 49.9%
	Ruth Ann Monroe Primary	New	Primary	\$23,769,000	\$13,261,000	\$10,508,000	55.79%	6/13/13	80,816	695 scores	ores	×	٨	
	Rockland Woods Elementary	New	Elementary	\$16,188,461	\$10,240,497	\$5,947,964	63.26%	2/23/12	85,277	745 50	scores	>	X	
	Antietam Academy	Replacement	Middle/High	\$11,424,600	58,282,215	53.142.365	77.49%	E1/81/2	AC MM	IQ TO LOT	brechbill and helman,	,	2	

Appendix 6



TO: Chairman Middleton & Delegate Olszewski
FROM: Scott Jensen, Deputy Secretary, DLLR
RE: School Construction Data
December 17, 2013

The Prevailing Wage Task Force asked DLLR to review MSDE's Public School Construction data in an effort to determine if there were marked and consistent differences in the costs of prevailing wage versus non-prevailing wage projects. We have worked very closely with, and have received generous support from, Dr. Lever and his team at the Public School Construction Program. While we learned quite a bit, we must conclude that despite the hours spent we do not believe our efforts have achieved a product that we are confident is definitive. Further, we believe that finding such answers would require a level of analytical and economic sophistication that we do not have.

Our review of a "critical mass" of 50 projects was meant to provide a useful, if not perfect, snap shot of the facts having to do with school construction costs within our state. We were not aiming to achieve scientific certainty, but we did hope to uncover rough and ready facts that would be useful to deliberations on this issue. However, even this modest goal proved beyond reach.

Even within this small sample there was sufficient "noise" in the data to warrant the conclusion that there were factors at work that caused us to miss the relevant cost drivers. In a number of instances when we looked at projects with significant categorical over-lap – same county, same type of school, same prevailing wage status (either prevailing wage or non) – we saw too much variance in costs to justify a claim that particular differences were driven by lower or higher labor costs associated with prevailing wage. Other factors may have been involved that would require detailed examination of the circumstances surrounding each project, including the unique bidding strategies of individual contractors. Even after taking the step of verifying the numbers reported to Dr. Lever's office with local areas, we are forced to concede that even this effort did not filter the noise to an extent sufficient to make drawing conclusions responsible.

The solution would be to expand the pool of projects one studies, and control more effectively for the greater quantity of variables such an expansion brings. But to do this one would have to either go back further in time, expand the geographic area beyond Maryland, or both. While this is not practical, even if it were done, DLLR and Dr. Lever's team certainly do not have the time or the expertise to do a credible job. Others who have reviewed and studied prevailing wage's impact on the cost of projects spent a year or two on the effort, reviewed hundreds or thousands of projects, and had a team of economists provide analysis. And then even when such studies are complete, they must necessarily achieve a level of abstraction which makes them vulnerable to critique based on their sophistication, precisely what our "snap-shot" had hoped to avoid.

With those considerations in mind, we cannot credibly provide the Task Force with the solid answer we hoped we could find. However, we do not believe our time, or the group's time, has been wasted. Our work is, I believe, illustrative of the nature of the data on which we focused, and the dangers of drawing unwarranted conclusions from it. Our team at DLLR has become expert in what one cannot know from exploring this data set. While shy of the value we had set out to add, we hope such knowledge can prove useful in future deliberations on this matter.

PHONE: 410-230-6020 • Fax: 410-333-0853 • INTERNET: www.dllr.maryland.gov

LEA L L L															
	Project Name Bid Date	Bid Date	Project Type	Contractor	Base Bid Cost with Prevailing Wages	Alternates with Prevailing Wages	Total Contract with Prevailing Wages	Base Bid Cost without Prevailing	Alternates without Prevailing	Total Contract without Prevailing	% of increase for Prevailing Wages Base Bid	% of increase for Prevailing Wages	% of increase for Prevailing Wages Total	Average Increase Within Bid Package	
Carroll Fr	Freedom E.	11/8/2012	Boiler	Towson Mech	822,000	4	822,000	739,000	n-Ross	000.957	11 23%	Alternates	41 22e/	All bids	Comments
-			replacement	M&E Sales	859,176		859,176	835,176		835,176	2.87%		2.87%		
				EMJA	981,600		981,600	869,900		869,900	12.84%		12.84%		
				Mick's Plumb.	998,000		998,000	854,746		854,746	16.76%		16.76%		
				RW Warner	1,050,000		1,050,000	927,000		927,000	13.27%		13.27%		
				Denver Elek	1,089,900		1,089,900	1,067,200		1,067,200	2.13%		2.13%		
Ĺ	Hameland C	CEOCLARIC	100	M&M Welding	1,124,000		1,124,000	1,082,000		1,082,000	3.88%		3.88%	%00%	
-	anipatedu C.	7107017	rentacement	SSK Contracting	715,000	65,000	780,000	660,000	45,000	705,000	8.33%	44.44%	10.64%	14	
			tionoondo	National Roofing	731,000	26,200	757,200	694,000	23,400	717,400	5.33%	11.97%	5.55%	A	
_				Roofing & Sustainable	897,000	9,000	906,000	869,000	8,000	877,000	3.22%	12.50%	3.31%	12	
		-		Cole Roofing	914,562	30,469	945,031	850,436	27,884	878,320	7.54%	9.27%	7.60%		
-				Simpson of Md	1,079,000	20,000	1,099,000	981,000	17,000	998,000	9.99%	17.65%	10.12%	2-1-1-1	
3		- In Inn in		J&K Contracting	1,184,000	2,500	1,186,500	1,054,000	2,000	1,056,000	12.33%	25.00%	12.36%	8 26%	
\$ 3	Westminster West M	ZLOZIZIC	Koot	J&K Contracting	1,543,000		1,543,000	1,500,000	•	1,500,000	2.87%		2.87%		
				Cole Roofing	1,487,593		1,487,593	1,285,830	•	1,285,830	15.69%		15.69%	1	
				Ruff Roofers	1,771,623		1,771,623	1,615,573	ĩ	1,615,573	9.66%		9.66%		
				Northeast Contracting	2,159,938		2,159,938	2,017,765	•	2,017,765	7.05%		7.05%		
ŭ	Eldorahum E	01001010		Alliace	1,596,000	•	1,596,000	1,379,000	1 M	1,379,000	15.74%		15.74%	10.20%	
1	nciaurug C.		Open Space	Towson Mechanical	2,822,000	248,300	3,070,300	2,448,000	242,000	2,690,000	15.28%	2.60%	14.14%		
-	2 2 2		Enclosure	Keller Brothers	2,829,000	281,900	3,110,900	2,489,000	241,200	2,730,200	13.66%	16.87%	13.94%		
			2	BOD PORTER CO.	2,849,000	255,500	3,104,500	2,494,000	233,000	2,727,000	14.23%	9.66%	13.84%		
				North Point Buildes	2,878,000	250,500	3,128,500	2,497,000	250,500	2,747,500	15.26%	%00.0	13.87%	十二次公	
-				E Difference O	2,937,000	263,300	3,200,300	2,640,000	244,300	2,884,300	11.25%	7.78%	10.96%		
Howard	Elkridge E.	3/27/2012	Roof	Let's Amorica E	2,948,000	349,000	3,297,000	2,721,000	320,500	3,041,500	8.34%	8.89%	8.40%	12.52%	
			replacement	Colo Boofier	1,233,300		006'667'L	1,281,000		1,281,000	1.48%	1	1.48%		
-					1,32/,981		1,327,981	1,236,618		1,236,618	7.39%		7.39%		
-				Vatica Contract	1,378,000		1,378,000	1,318,000		1,318,000	4.55%		4.55%		
		-02		CitiKoof Corp.	1,436,000		1,436,000	1,310,000		1,310,000	9.62%		9.62%		
				Autumn Contract	1,652,000		1,652,000	1,652,000		1,652,000	0.00%		0.00%		
				J&K Contracting	1,687,000		1,687,000	1,657,000		1,657,000	1.81%		1.81%		
Т.		- minored		Simpson of Md	1,797,000		1,797,000	1,689,000		1,689,000	6.39%		6.39%	4.46%	
	New Clem.	ZLOZIJIC	New	MRP Contract	4,100,200	597,300	4,697,500	3,752,300	568,800	4,321,100	9.27%	5.01%	8.71%		
-				Keller Brothers	4,345,000	568,700	4,913,700	4,038,000	536,400	4,574,400	7.60%	6.02%	7.42%		
_				Homewood Gen.	4,493,800	521,300	5,015,100	4,257,000	491,700	4,748,700	5.56%	6.02%	5.61%	1 1 1 1	
-		_		Hancock & Albanese	4,704,000	566,000	5,270,000	4,439,000	533,900	4,972,900	5.97%	6.01%	5.97%	1 2 2 1 2	
_				Brawner Builder	4,750,000	717,000	5,467,000	4,600,000	660,000	5,260,000	3.26%	8.64%	3.94%		
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Bid Date Project Type Contractor Bid Date Project Type Contractor Simpson of Md Vatica Contract Citificof Corp. Simpson of Md Autumn Contract Cole Roofing 1/24/2012 HVAC Teplacement Autum Contract 1/24/2012 HVAC Tecta America E Jak Contracting 1/24/2013 To Contract Tecta America E Jak Contracting 1/24/2013 To Construction Physics Towson Mach Partice E Jak Contracting Incorting Towson Mach Partice E Jak Contracting Anture North Point Builders MRP Contract MRP Contract Anture North Point Builders MRP Contract Soly Contracting An - Concrete Construction Dance Bros. An - Concrete Construction Soly Contractors Soly Contractors Canyon Contractors An - Solary Incorp. Soly Contractors An - Solary Incorporated Soly Construction An - Solary Incorporated Soly Construction An - Solary Incorporated Soly Construction An - Solary Incorporated Solar Antractors <t< th=""><th>Project Type Contractor Project Type Contractor Vatica Contract 1 Replacement Vatica Contract 1 HVAC Simpson of Md 1 Autumm Contract 1 Cole Roofing 1 Invocontracting 3 Autum Contract 1 Construction 1 HVAC Tecta Amorica E 1 Autum Contract 1 Construction 1 Main Warner 3 Construction 3 Main Warner 3 Autum Contracting 3 Autum Contract 1 Acoustruction 3 Main Weiting 3 Autum Contract 3 Autum Contract 3 Autum Contract 3 Autum Contractors 3 Autum Nasonry 2 Autum Nasonry 2 Autum Nasonry 2 Autum Contractors 1 Autum Contractors 1 Autum Contractors 3</th><th>Project Type Contractor Base Bid Atternates Project Type Contractor Proval with Proval with Prov Proval with Proval with Prov Proval with Proval with</th><th>Project Type Contractor Base Bid Network Attennates Contractor Prevailing Network Total 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		Alternates with Prevailing Wages 133,514 233,514 288,000 288,000 288,000 611,000 6610,000 952,896 952,800 952,000 952,	Alternates Total Contract with Total Contract with Wages 183,514 1,152,808 Prevailing Wages 183,514 1,152,808 288,000 1,532,250 217,000 1,532,250 217,000 1,532,250 217,000 1,532,250 217,000 1,532,250 217,000 1,532,250 217,000 1,532,250 211,000 1,532,250 211,000 1,532,250 211,000 1,532,250 211,000 1,532,000 211,000 1,532,000 213,000 5,165,000 321,000 3,218,000 321,000 3,218,000 23,000 3,218,000 23,000 3,214,000 32,000 1,175,000 23,000 3,214,000 32,000 3,214,000 339,0000 1,175,000 314,000 1,175,000 33,000 3,214,000 <td>Alternates with Wages Total Contract Total Contract With Wages Base Bid Cost Wages 133,514 Total Contract with Wages Wages 133,514 1,152,808 952,495 288,000 1,532,250 1,095,500 217,000 1,532,250 1,095,500 288,000 1,558,000 1,527,000 288,000 1,558,000 1,290,000 288,000 1,558,000 1,165,830 232,800 1,568,000 1,165,830 322,800 1,568,000 1,165,830 321,000 2,199,000 1,165,830 322,800 1,568,000 1,165,830 323,000 3,181,000 3,181,000 350,000 3,354,000 3,181,000 25,000 3,181,000 3,561,000 25,000 3,354,000 3,351,000 25,000 3,351,000 3,351,000 25,000 3,351,000 3,561,000 25,000 3,351,000 3,550,000 393,500 3,351,000 3,550,000 25,</td> <td>Alternates with Prevailing with Wages Base Bid Cost without Wages Alternates without Wages With Wages Total Contract with Wages Base Bid Cost Alternates without Wages Wages Wages 952,495 180,617 Wages 952,490 1,5500 217,000 1,55000 1,950,000 217,000 1,550,000 1,501,000 255,389 1,563,000 1,501,000 255,380 1,563,000 3,110,000 310,000 3,110,000 23,000 255,000 3,141,000 3,112,000 255,000 3,141,000 3,112,000 23,000 25,000 3,112,000 23,000 23,000 25,000 3,110,000 3,112,000 23,000 25,000 3,112,000 23,000 23,000</td> <td>Alternatos Total Contract without Base Bid without Alternatos Total Contract without Prevaiing without Base Bid without Pwailing Wages 1133,112 Cost Alternates Total Contract without Wages Base Bid Alternates Total Contract without Wages Base Bid Fit 1,133,172 Cost Wages Base Bid Base Bid Fit 1,133,172 Cost Wages Base Bid Fit 1,133,172 Cost Wages Base Bid Fit Fit Fit Fit Base Bid Fit Fit</td> <td>Alternations Na</td> <td>Alternation with with prevailing prevailing Rest for without Rest for prevailing prevailing prevailing Rest for prevailing prevailing prevailing Rest for prevailing prevailing prevailing Not prevailing prevailing prevailing Not prevailing prevailing prevailing Not prevailing prevailing prevailing Not prevailing prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing Not pre</td> <td>Alternates (with with with with with with with with</td> <td>Base Bid Cost with Prevailing Wages</td> <td>969,294</td> <td>1,244,250</td> <td>1,292,000</td> <td>1,297,000</td> <td>1,313,411</td> <td>1,540,000</td> <td>1,858,000</td> <td>4,555,000</td> <td>5,042,000</td> <td>5,817,075</td> <td>6,220,000</td> <td>3,194,000</td> <td>3,457,000</td> <td>3 535 000</td> <td>3,877,200</td> <td>3,515,700</td> <td>4,281,000</td> <td>2,741,000</td> <td>3,175,444</td> <td>3,230,600</td> <td>3,750,000</td> <td>000,612,1</td> <td>1 292 400</td> <td>1,318,000</td> <td>1,444,500</td> <td>2,325,000</td> <td>3 403 600</td> <td>2.304.000</td> <td>2,252,000</td> <td>3,087,000</td> <td>803,000</td> <td>873.500</td> <td>1,010,000</td> <td>959,000</td> <td>943 850</td> <td>871 000</td> <td>939.000</td> <td>1 000 000</td>	Alternates with Wages Total Contract Total Contract With Wages Base Bid Cost Wages 133,514 Total Contract with Wages Wages 133,514 1,152,808 952,495 288,000 1,532,250 1,095,500 217,000 1,532,250 1,095,500 288,000 1,558,000 1,527,000 288,000 1,558,000 1,290,000 288,000 1,558,000 1,165,830 232,800 1,568,000 1,165,830 322,800 1,568,000 1,165,830 321,000 2,199,000 1,165,830 322,800 1,568,000 1,165,830 323,000 3,181,000 3,181,000 350,000 3,354,000 3,181,000 25,000 3,181,000 3,561,000 25,000 3,354,000 3,351,000 25,000 3,351,000 3,351,000 25,000 3,351,000 3,561,000 25,000 3,351,000 3,550,000 393,500 3,351,000 3,550,000 25,	Alternates with Prevailing with Wages Base Bid Cost without Wages Alternates without Wages With Wages Total Contract with Wages Base Bid Cost Alternates without Wages Wages Wages 952,495 180,617 Wages 952,490 1,5500 217,000 1,55000 1,950,000 217,000 1,550,000 1,501,000 255,389 1,563,000 1,501,000 255,380 1,563,000 3,110,000 310,000 3,110,000 23,000 255,000 3,141,000 3,112,000 255,000 3,141,000 3,112,000 23,000 25,000 3,112,000 23,000 23,000 25,000 3,110,000 3,112,000 23,000 25,000 3,112,000 23,000 23,000	Alternatos Total Contract without Base Bid without Alternatos Total Contract without Prevaiing without Base Bid without Pwailing Wages 1133,112 Cost Alternates Total Contract without Wages Base Bid Alternates Total Contract without Wages Base Bid Fit 1,133,172 Cost Wages Base Bid Base Bid Fit 1,133,172 Cost Wages Base Bid Fit 1,133,172 Cost Wages Base Bid Fit Fit Fit Fit Base Bid Fit	Alternations Na	Alternation with with prevailing prevailing Rest for without Rest for prevailing prevailing prevailing Rest for prevailing prevailing prevailing Rest for prevailing prevailing prevailing Not prevailing prevailing prevailing Not prevailing prevailing prevailing Not prevailing prevailing prevailing Not prevailing prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing prevailing Not prevailing Not pre	Alternates (with with with with with with with with	Base Bid Cost with Prevailing Wages	969,294	1,244,250	1,292,000	1,297,000	1,313,411	1,540,000	1,858,000	4,555,000	5,042,000	5,817,075	6,220,000	3,194,000	3,457,000	3 535 000	3,877,200	3,515,700	4,281,000	2,741,000	3,175,444	3,230,600	3,750,000	000,612,1	1 292 400	1,318,000	1,444,500	2,325,000	3 403 600	2.304.000	2,252,000	3,087,000	803,000	873.500	1,010,000	959,000	943 850	871 000	939.000	1 000 000

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				Base Bid	Alternates		Base Bid Cost	Alternates	Total Contract			% of increase for Prevailing	Average Increase	
		ā.	Contractor	Prevailing Wages	with Prevailing Wages	vith Prevailing Wages	without Prevailing Wages	without Prevailing Wages	without Prevailing Wages	Wages Base Bid Cost	Prevailing Wages Alternates	Wages Total Contract	Within Bid Package All Bids	Commante
,	20	3 9E-Painting		127,200	•	127,200	87.750		87.750	200		AA QG%	COLO INC.	Childhillion
cont'd cor	cont'd cont'd	1	Argos Construction	169,000	•	169,000	142,000	•	142,000	19.01%		19.01%		
-	Ť		J A Argetakis Cont Co.	190,000		190,000	155,000	•	155,000	22.58%		22.58%	28.85%	
		Mechanical		7,159,000	139,000	7,298,000	6,097,000	137,000	6,234,000	17.42%	1.46%	17.07%		
			G E Tifnail & Co, Inc.	6,821,000	135,000	6,956,000	6,163,000	122,800	6,285,800	10.68%	9.93%	10.66%		
	-		Towson Mechanical	7,113,000	125,000	7,238,000	6,351,000	125,000	6,476,000	12.00%	0.00%	11.77%		
			M. Nelson Barnes & Sons. Inc.	7.238,000	153,000	7 361 000	6,450,000	160,000	6,610,000	17.13%	1.25%	16.75%	1	
			Mallick Mechanical Contractors	8,348,000	300,000	8.648.000	7.268.000	295,500	7 563 500	9.04%	2.50%	8.92%	10 0 0 1	
	-	16A - Electrica	16A - Electrical Jan El Contracting Co.	4,700,000	150,255	4,850,255	4,446,000	135,808	4,581,808	5.71%	10.64%	5.86%		
_			Key Systems, Inc.	5,282,900	137,100	5,420,000	4,478,000	122,380	4,600,380	17.97%	12.03%	17.82%		
			RoMark Flactric	5,289,000	166,300	5,455,300	4,594,000	146,700	4,740,700	15.13%	13.36%	15.07%	1	
Burleigh	n 5/3/2013	Roof	Simpson of Md	2.441.000	,	C/ 1'667'C	2 202 000	143,150	4,776,150	10.93%	11.98%	10.96%	12.43%	
Manor M.	, W	replacement	Cole Roofing	2.431.376		2.431.376	2 Nog 4Ng		2,000,000	10100101		%C970L	THE REAL PROPERTY AND	
	-	-	J&K Contracting	2,800,180	•	2,800,180	2,730,000	•	2.730.000	2 57%		10.0179 C		
	-		Vatica Contract	2,092,000	•	2,092,000	2.060,000	•	2.060,000	1 55%	T	1 550		
			Ironshore Contracting, LLC	2,333,007	4	2,333,007	2,097,820	•	2,097,820	11.21%		11.21%	R 40%	
Elkridge M.	a M. 5/3/2013	Roof	Simpson of Md	1,349,000	•	1,349,000	1,249,000	•	1,249,000	8.01%		8.01%		
_		Mamapan	J&K Contracting	1,389,000	ľ	1,389,000	1,359,000	•	1,359,000	2.21%		2.21%		
			Cole Roofing	1,612,382	3	1,612,382	1,391,254	•	1,391,254	15.89%		15.89%		
			Ironshore Contracting, LLC	1,593,752	1î	1,593,752	1,416,592		1,416,592	12.51%		12.51%	9.65%	
Rockburn E.	rn E. 5/3/2013	Roof	Cole Roofing	1,222,358	37,000	1,259,358	1.057,618	29,000	1,086,618	15.58%	27.59%	15.90%		
Machinatan Carithahum U	1 10010040		J&K Contracting	950,000	120,000	1,070,000	930,000	108,000	1,038,000	2.15%	11.11%	3.08%	9.49%	
		replacement	Waynesboro Construction	987,375	30,300	1,017,675	904,919	26,000	930,919	9.11%	16.54%	9.32%		Actual State participation in project is less than 50%.
Bester	Bester Elem. 8/16/2012	_	Waynesboro Construction	3,530,000	14,598	3,544,598	3,210,000	12,998	3,222,998	9.97%	12.31%	9.98%	9.98%	
		3A-Building	Sody Concrete	760,000	22,000	782,000	699,000	20,300	719,300	8.73%	8.37%	8.72%		
_			Chevy Chase Contractors	933,000	15,400	948,400	828,000	13,000	841,000	12.68%	18.46%	12.77%		
			Callas Contractors	1,089,000	36,900	1,125,900	1,004,000	35,300	1,039,300	8.47%	4.53%	8.33%	T	
			Dance Bros.	1,101,500	24,400	1,125,900	914,300	22,000	936,300	20.47%	10.91%	20.25%	12.52%	
_		4A-Masonry	Bragunier Masonry	1,957,000	68,500	2,025,500	1,857,000	64,000	1,921,000	5.39%	7.03%	5.44%		
			Robert Sheckles	2,245,000	64,600	2,309,600	1,524,000	45,400	1,569,400	47.31%	42.29%	47.16%		
			Manganaro	2,250,000	98,000	2,348,000	1,655,000	71,000	1,726,000	35.95%	38.03%	36.04%	29.55%	
_		5C-Steel	Steel Fab Enterprises	1,597,800	20,500	1,618,300	1,497,800	19,500	1,517,300	6.68%	5.13%	6.66%		
			SA Halac Ironworks	1,700,000	36,700	1,736,700	1,600,000	33,500	1,633,500	6.25%	9.55%	6.32%	6.49%	
		trades	Callas Contractors	1,072,000	21,100	1,093,100	1,029,000	18,700	1,047,700	4.18%	12.83%	4.33%	-	
			RA Hall	1,142,000	15,800	1,157,800	1.069.000	14.500	1.083.500	G 820L	0 076/	o ocer	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1	all and a second					and the first	aniant		- national.	010010	0/ 10.0	0.00%	4 11 14	

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increase for Vages Base Bid Cost 4.84% 7.57% 5.11% 9.90% 9.90% 9.90% 5.11% 0.00% 5.11% 5.37% 5.37% 5.37% 2.5.38% 7.5.38% 12.28% 7.5.38% 2.2.19% 0.00% 14.02% 12.28% 7.5.78% 5.37% 5.
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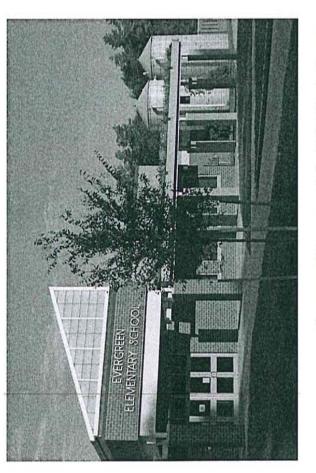
	AILING WAGE PROJECTS	
UBLIC SCHOOL CONSTRUCTION PROGRAM	WARDED VS. FINAL PROJECT COSTS: PREVAILING WAGE AND NON-PREV	lecember 17, 2013

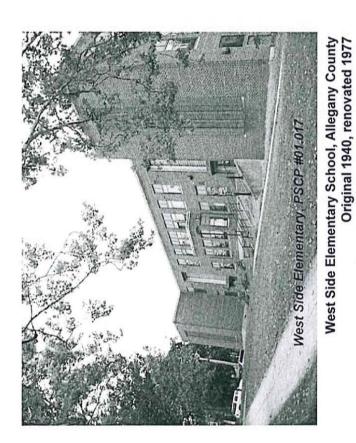
Variance																																															
Actual Substantial Completion Date		14 1000	20007111	0011/2000	1002/08	5007/10	anit and	2012/02/02	CONTINUE	BUISTOONS N	8/25/2006	8/21/2007		6/29/2010	8/30/2005	8/30/2006	8/1/2007	812/12007	2011/2004	7/15/2005	6/30/2006	6/30/2006	7/1/2006	6/30/2007	9/19/2008	8/4/2008	11/21/2005			8/1/2007 10/31/2008	3/3/2011	8/15/2005	7/15/2008	8/29/2005	2(30)2007	8173/2004	8/24/2005	8/1/2002	5/1/2004	7/1/2005	8/1/2006	301/2007	4/21/2008	9/29/2006	8/3/2009	6/30/2009	2/14/2011
Anticipated Substantial Completion Date		100000	SUITONS	01112000	DUNZILING	BUNCITA	SUNCIONA	BILIDUAUDU	CUUCIONS	6/2/2008	6/1/2006	5/31/2007		4/16/2010	Aug-05	Aug-06	Aug-07	10-BUA	12/1/2004	7/15/2005	6/30/2006	6/30/2006	7/1/2006	6/30/2007	7/11/2008	8/7/2008			Totota	8/1/2008	8/1/2010	8/15/2005	8/15/2008	5/30/2005	S/30/2001	7/31/2004	6/1/2005	7/1/2002	8/1/2003	7/1/2004	8/1/2006	BU3112004	12/31/2007	6/16/2006	5/22/2009	10/15/2008	10/28/2010
PW Side PV Side 7 7		2	-	+	+	+	+	+	-	-	+	-	-	-	\rightarrow	-	z	-	+	-	z	-	-	zz	+	-			+	zz	-		+	-	- >	12	z	NIA	z	z	zz	zz	-		+	+	N
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Final Construction Cost		59 985 685	\$21.050.156	S10 782 488	\$16.992.876	\$14.574.000	\$24,599.257	\$31,953,375	\$31,795,352	\$53,962,912	\$18,282,670	\$50,364,840	\$66,409,110	\$26,557,440	\$32,083,511	\$22,163,250	822,1942,814 ACS 570 ACS	\$19.677.857	\$11,845,593	\$13,946,000	\$16,281,455	\$17,780,138	000/8/8/8/8	\$19,201,871	\$16,019,473	\$17,646,584	\$14,350,272		CTA 202 AD3	\$16,636,644	\$22,788,597	\$11,921,368	\$20,720,545	548,942,274	\$19.570.040	\$13,557,454	\$13,019,012	\$12,892,963	\$13,104,673	S16,010,154	\$10,210,331 \$14,600,578	\$24,776,174	\$18,124,504	\$13,572,573	S20,471,998	\$17,004,881	S11.690.451
Final Local Construction		\$6.858.077	\$14,664,709	\$6.766.510	S11,214,917	\$10,126,368	\$16,476,653	S16,495,514	S16.695.311	\$30,253,785	\$11,735,172	\$33,476,840	\$39,559,977	\$15,201,347	\$17,870,767	\$13,843,250	S16,864 035	\$12,463,333	\$7,712,684	\$9,714,000	\$9,916,455	511,478,138	S11,177,000	\$11,503,040	\$9,181,841	\$9,886,992	\$9,745,134		C13 682 473	\$5,482,716	\$10,698,969	\$6,149,004	S11,650,832	120,165,126	\$7.127.337	\$6,296,410	\$5,958,982	\$6,587,963	\$6,274,954	58,194,154	\$4 823 745	\$13,731,087	\$3,644,504	\$6,766,268	S8.073.998	30,032,200	1014-100-00
Final State (Construction) \$		\$3,127,608	\$6,385,447	\$4.015.978	\$5,777,959	\$4,447,632	\$8,122,604	\$15,457,861	\$15,100,041	\$23,709,127	\$6,547,498	\$16,888,000	\$26,849,133	\$11,356,093	514,212,744	58,320,000	S7 158 899	\$7,214,524	\$4,132,909	\$4,232,000	\$6,365,000	\$6,302,000	SE 075,000	\$7,698,831	\$6,837,632	\$7,759,592	\$4,605,138		\$30.641.000	\$11,153,928	\$12,089,628	\$5,772,384	\$9,069,713	C15 006 623	\$12,442,703	\$7,261,044	\$7,060.030	\$6,305,000	\$6,829,719	51,610,000	59.875.833	\$11,045,087	S14,480,000	\$6,806,305	\$10.432.616	350 005 85	20.325.050
Final \$		\$9,985,685	\$21,050,156	\$10,782,488	\$16,992,876	\$14,574,000	\$24,599,257	\$37,001,460	\$34,116,391	\$68,862,743	\$23,915,000	\$55,256,496	\$74,105,973	\$29,718,466	443,843,446	525 455,000	\$29.247.899	\$19,677,857	\$11,845,593	\$13,946,000	\$16,281,455	51/,/8U,138	S15 434 000	\$19,201,871	\$18,362,661	\$21,637,499	\$17,998,521	T	S46.810.646	\$19,705,891	\$25,278,805	\$11,921,338	\$20,618,698	\$77 974 760	\$20,762,304	\$14,037,807	\$15,977,349	\$14,515,800	\$14,913,709	\$10,3/3,10U	\$17,130,437	-	_	\$15,281,508		_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total Awarded Construction Cost		\$8,896,694	\$22,279,945	\$10,567,745	\$16,482,438	\$14,511,415	\$32,151,877	\$30,783,000	\$30,312,372	\$55,839,316	\$18,701,773	\$57,181,198	\$63,897,108	\$26,508,952	502,280,054	CPC,000,136	\$23.171.513	\$19,075,540	\$11.426.138	\$13,946,000	\$16,281,455	001,007,116	\$15,434,300	\$20,314,236	\$15,482,000	\$17,035,084	\$14,552,436		\$38.964.000	\$16,187,380	\$22,274,000	\$11,346,636	175' JUC' JIC	\$25,870,000	\$19,077,000	\$13,073,254	\$12,568,900	\$12,603,980	\$12,092,500	210,000,000	\$13,844,500	\$24,733,200	\$18,193,460	\$13,374,900	\$16.188.461	S11 424 600	111. M.C.M. Lines
Type		Elementary	Middle	Elementary	Elementary	Elementary	Elementary	High	High	High	Middle	Middle/High	High	Liementary	Flamontanu	Flementanu	Elementary	Middle	Elomentary	Elementary	Elementary	Elementary	Elementary	Elementary	Elementary	Elementary	Elementary		High	Elementary	Middle	Elementary	Link	Middle	Elementary	Elementary	Elementary	Elementary	Elementary Clamontary	Hinh	Elementary	Middle	Middle	Elementary	Elementary	Middle/High	VINUERANT TRAFT.
Project Type		67,111 Replacement	Replacement	New	Replacement	New	New	New	New			New	Replacement	Keplacement	Now	MONT	Replacement	New	Replacement	Replacement			acement		91,586 Replacement	88.116 Replacement	87,477 Replacement		165,382 Replacement		acement								tramont	_			-	74.227 New		acement	
Area (square feet)	The second	1		81,209 New	1		90,132	206,000 New			125,049	265,000	202,454	751 645	116.818	116,818	116,818	153,588 New			WeN 110,28	88.351	85,469	96,986	91,586	88.116	87,477		165,382	74,865	104,628	73,271 New	311 770 Now	134,642	86,880	86,938 New	87,175 New	76,842	Man dac, 11	434.600	77,646	110.427	77,652	74.227		45,000 F	
Bid Date		7/2/2003	5/24/2004	5/10/2004	2/8/2008	12/12/2006	2/13/2007	Nouth the state	TEN-San	6/20/2006	10/1/2004	3/17/2005	1002/5/5	000711700		1/10/2006	1/3/2006		1000			12/1/2005	爭	8/2/2006	3/5/2007	3/28/2007	ALL DE LA		8/29/2005	DV. BE. M	7/31/2008	anorigia			1/11/2007	10100-0010-00101		8/25/2001	the second second	and and an	1/21/2005	8/13/2005	3/17/2006	8/19/2007	2/8/2007	6/18/2009	
Project Name	PROJECTS WITHOUT PREVAILING WAGE RATES	mentary	ddle	Seven Oaks Elementary	Freelown Elementary	Nantucket (Gambrills) Elementary	Vincent Farms Elementary	with High	High	Oakdale High (East County)	Urbana Miggio	Mill Middlorright	lementary	idge High	Dayton Oaks (New Western) Elementary	Veterans (New Northeastern) Elementary	Bushy Park Elementary	Lakelands Park (Quince Orchard #2) Middle	Somerset Elementary	Kensington-Parkwood Elementary	Great Seneca Creek Elementary (Northwest Area F #7)	Roscoe R. Nix Elementary (Northeast Consortium E. #16)	Downcounty Consortium Elementary #28 (Arcola E.)	College Gardens Elementary	Maugansville Elementary	Pangborn Elementary Orean Pity Elementary	CIRINIARY	VAGE RATES	tidge High	Barstow Elementary (Calvert New E. #13)	1018	r arrs ruoge clementary Ebb Vallev Elementary	North Point (Comprehensive) High	Theodore G. Davis Middle	Mary Burgess Neal Elementary	Elementary	Centervillo Elemontary	Port Towns (Colmar Manor) Elementary	Suitland (Homer Avenue) Elementary	Dr. Henry A. Wise Jr. High (Regional High)	Elementary	Middle	Somerset intermediate School at Tawes George Washington Carver Flomontary	Elementary	Rockland Woods Elementary	ademy	
	HOUT PREVAIL	Marley Elementary	Marley Middle	Seven Oa	Freelown	T	T	Huntingtown High	Tuscarora High	Oakdale H	Origana Migdio	Rel Air Hinh	Deerfield Elementary	Marriots Ridge High	Dayton Oa	Veterans (Bushy Part	Lakelands	Somerset	Kensington	Great Sane	Roscoe R.	Downcount	College Ga	Maugansvi	Pangborn City	tio incono	I PREVAILING	Mountain Ridge High	Barstow El	Dame Didan El	Ebb Vallev	North Point	Theodore 6	Mary Burge	Tuscarora Elementary	Centervillo	Port Towns	Suitiand (Ho	Dr. Henry A	Northview Elementary	Matapeake Middle	Georne Way	Evergreen Elementary	Rockland M	Antietam Academy	
LEA	PROJECTS WITH	Anne Arundel	Anne Anndel	Anne Arundel	Anne Arundel	Anne Anundel	Baltimore County	Calvert	Frederick	Frederick	Harford	Harford	Harford	Howard	Howard	Howard	Howard	Montgomery	Montgomery	6 Montoomery	Montgomerv	Montgomery	Montgomery	Montgomery	Washington	Worcestar	internation	PROJECTS WITH PREVAILING WAGE RATES	Allegany	Calvert	Carroll	Carroll	Charles .	Charles	Charles	Frederick	Prince Generate	Prince Geome's	Prince George's	Prince George's	Prince George's	Queen Anne's	St. Marv's	St. Mary's	Washington	Washington	

Appendix 7

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PUBLIC SCHOOL CONSTRUCTION IN MARYLAND





Evergreen Elementary School, St. Mary's County Completed 2009 LEED Gold School Presentation to the Task Force on Prevailing Wage in School Contruction

December 17, 2013

Executive Director, Public School Construction Program

David Lever

Superior Maintenance Ranking, 2009

PUBLIC SCHOOL CONSTRUCTION IN MARYLAND

The Public School Construction Program A

- History and Structure
- Interagency Committee on School Construction (IAC)
- Duties
- Funding Programs

The Capital Improvement Program A

- The Capital Improvement Program Process
 - Project Eligibility and Funding
- The FY 2015 Capital Improvement Program

_	The Public School Construction Program
A	 Public School Construction Program (PSCP): Established in 1971 to:
	 Assist local school systems in funding school construction projects Ensure equity in the condition of school facilities in all jurisdictions of the state
A	 Established by the Board of Public Works to administer the PSCP
	 Consists of five members:
	 State Superintendent of Schools (chair) Secretaries of Department of General Services and Maryland Department of Planning
	 Two members of the public representing the Presiding Onicers of the General Assembly Meets six times per year to approve policies and contracts, and approves six interim agendas on routine matters
A	Designees appointed by the Superintendent and two Secretaries decide on routine matters and prepare recommendations on capital projects and policy
А	Public School Construction Program (agency) provides overall management
	Note: "Public School Construction Program" refers to both a program and an independent agency reporting to the Board of Public Works

on Program		n (IAC) ers of the public	Public School Construction Program Program (PSCP) Program (PSCP)
School Construction Program	Board of Public Works (BPW) Governor, Treasurer, Comptroller	Interagency Committee on School Construction (IAC) State Superintendent, Secretaries of MSDE & DGS, two members of the public representing the General Assembly	Department of General Services (DGS)
1	Board of Pub Governor, Trea	ragency Committee o endent, Secretaries of A representing the	Maryland Department of Planning (MDP) (MDP
Maryland Public		Intel State Superint	Maryland State Department of Education (MSDE) Education (

	The Interagency Committee on School
	CONSTRUCTION DUTIES AND FUNCTIONS OF THE INTERAGENCY COMMITTEE AND ITS STAFF
А	Capital Improvement Program: Recommends projects for approval of planning and funding to the Board of Public Works; may include special initiatives
A	Smaller Funding Programs: Aging Schools Program, Qualified Zone Academy Bond program, FY12 Supplementary Appropriation program, Relocatable Classroom Repair Fund, Emergency Repair Fund
А	Maintenance: Inspects approximately 230 schools per year to ensure proper maintenance, and reports to the Board of Public Works
A	Regulations and Procedures: Develops, updates and enforces regulations and procedures on administration of the PSCP; project procurement, delivery, and financing; Minority Business Enterprise Participation; and funding programs
A	School Properties: Approves acquisition of and recommends disposal of school sites and 152 State-owned relocatable classrooms
A	Design Reviews: MSDE reviews all schematic designs, DGS reviews construction documents for State-funded projects
A	Contract Awards : Approves contract awards for all State-funded CIP projects and for larger projects in other funding programs
А	Corollary State Policies : Smart Growth, Green Schools, Minority Business Enterprise, BRAC, Emergency Mass Care Sheltering

The Interagency Committee on School Construction

MAJOR FUNDING PROGRAMS ADMINISTERED BY THE IAC

- Capital Improvement Program (CIP): More than \$250 Million/Year, FY 2006 2014
- Aging Schools Program (ASP): \$6.1 to \$11 Million/Year (\$31.1 M in FY 2013) A
- Generally for smaller projects in existing schools; occasional larger projects
 - Generally no local match required
- Qualified Zone Academy Bond (QZAB) Program: \$4.5 to \$11 Million (approx. \$15 - \$16 Million under ARRÀ for FY 2012 and 2013) A
- Generally for smaller projects in existing schools; occasional larger projects
- Requires 10% private entity match (private corporation cash or equipment, in-kind community contribution, etc.) **
 - Only eligible for schools with 35% or more FARMS population **

 State participates only in <i>eligible</i> costs: Fixed asset costs with 15 year life State funding for each project is determined by formula: Different formulas apply to different project types There is no formula for the total funding each LEA will receive annually Local funding match is required: Covers ineligible items and miscellaneous 	 Eligible project categories: Major projects, small renovations and additions, systemic renovations No repair or maintenance projects 	 The Capital Improvement Program Funded at more than \$2.7 billion, FY 2006 – FY 2015 (to date)
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The Capital Improvement Program ANNUAL PROCESS

- Pre-Submission: Summer through September A
- Preliminary CIP: October to January
- BPW approves projects for 75% of Governor's preliminary capital budget
- Interim CIP: January to March
- IAC recommends projects for 90% of Governor's submitted capital budget
- Final CIP: April to May
- BPW approves projects for 100% of final approved capital budget

The Capital Improvement Program **CRITERIA FOR PROJECT ELIGIBILITY**

- Local Approvals: Approval by local board, local government fiscal support for planning and design costs, and for construction matching funds A
- Basic Factors: Eligible category of work; school or building system at least 15 years old (with some exceptions); school facility has been well maintained A
- Planning Approval (applies only to major projects): Approved site; project is justified; other technical factors per project type A
- Funding Approval (all projects): Continuing justification; project schedule (if approved, funds will be used); if procured, State MBE procedures were followed A

BPW Approvals: A

- Invariably respect IAC recommendations
- May use as bully pulpit to emphasize certain issues: MBE, air conditioning, maintenance

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 | | Final State participation is established at approval of funding Final State participation is established at approval of funding For most project types, makes use of a formula that takes account of: Studentenolment projections to the 7th year (subject and adjacent schools) Studentenolment projections to the 7th year (subject and adjacent schools) State cost factor (\$<i>s</i>, <i>s</i>, <i>i</i>, adjusted annually per school bitis for new construction, industry input, and DBR and DGS figures; one figure applicable statewide, sitework and contingency percentages are added) Age of existing square footage (for renovations) Age of existing square footage (for renovations) Age of existing square footage (for renovations) Addenois for previously approved State work (renovations only) State-local cost share percentage Add-ons for cooperative use space (up to 3,000 s.f.); high performance schools (FY 2009 – 2014 only) Systemic Renovations and Smaller Renovation & Addition Projects: State-local cost share is applied to estimated or actual cost
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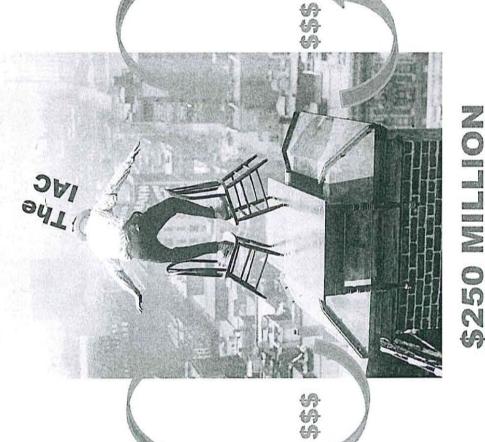


- Older schools
- Complex demographics
 Multiple facility needs → long lists

IAC Approach:

of capital projects

 Funding should be reasonably scaled to number of schools, students, and projects



Small LEAs:

- Large single projects that affect a large proportion of students, economic development, etc
- IAC Approach: Ensure that critical projects can continue on

schedule

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The Capital Improvement Program SOURCES OF FUNDS

▶ NEW BOND AUTHORIZATION

- 94.6% of total allocation FY 2006 2015 to date
- Can only be used within a restricted time of completion of the project ("pyramid rule")

> PAYGO

- 0.3% of total allocation FY 2006 2015 to date
- Only source is in reverted funds from pre-FY 2005

➢ REVERTED FUNDS

- 5.1% of total allocation FY 2006 2014
- Since 2007, reverted funds remain with the LEA of origin under most circumstances
- Funds may be used for an unfunded eligible project in current year CIP, or may be held in reserve for the next year CIP

Funding Capacity	E/LOCAL FUNDING CONSTRAINTS
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State Debt Cap

- Debt criteria were adopted by Capital Debt Affordability Committee in 1979, revised 1988:
- Outstanding State-supported debt should be no more than 3.2% of State personal income ۱
- Debt service should be no more than 8% of State revenues
- State is now approaching the limit

Lack of PAYGO funds

No appreciable PAYGO funds in last seven fiscal years

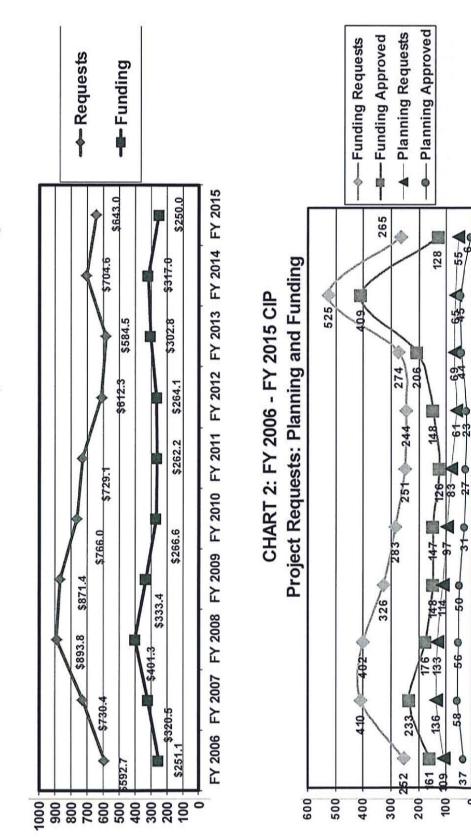
Absence of other funding sources

> Local Fiscal Constraints

- Four jurisdictions withdrew projects in spring of 2011 due to projection of FY 2012 revenue shortfalls
- Major projects have been delayed by one or more years



CHART 1: FY 2006 - 2015 CIP Requests and Funding



FY 2010 FY 2011 FY 2012 FY 2013 FY 2014 FY 2015

offer

FΥ 2009

FΥ 2008

FΥ 2007

FΥ 2006

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School Construction MEASUREMENT OF THE NEED

LEA Facility Assessment Studies: Backlog of deferred capital and maintenance items A

- Six largest school districts: At least \$13.5 billion
- Mid- and smaller-size school districts: At least \$2 billion
- \$15 billion plus in total needs

Caveats:

- Methods of assessment and costing vary
- Scope of facilities examined may vary
- Some assessments are old and do not reflect contemporary costs
- Not all deficiencies are urgent
- replacement schools, additions tends to go beyond correcting deficiencies Scope of major capital improvement projects – renovations, new schools,

Public School Construction Program RESOURCES

- PSCP Website: www.pscp.state.md.us:
- FY 2001 FY 2014 Capital Improvement Programs
- Section I X: Detailed explanation of CIP process
- Administrative Procedures Guide (amended sections only)
- Section 102: Capital Improvement Program
- Reports
- Facilities Inventory Database

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Code of Maryland Regulation (COMAR): A

- Chapter 23.03.01 Terminology
- Chapter 23.03.02 Administration of the Public School Construction Program
- Chapter 23.03.03 Construction Procurement Methods ***
- Chapter 23.03.04 Project Delivery Methods
- Chapter 23.03.05 Alternative Financing
 - Website: www.dsd.state.md.us/comar

Appendix 8

North Frederick Elementary Bids

Non-prevailing Wage Rates

Total Bid

\$22,391,027

(Incl. add alternates 3, 5, 6, 7, 8, &	16)
Phase I funds available	
Phase I costs	
Balance	

\$2,813,177
\$2,045,000
\$766,177

\$22,391,027/93,605=\$239.21/s.f. incl. site \$17,991,027/93,605=\$192.20/s.f., without site work

Base Bid ONLY \$22,206,639/93,605 s.f. =\$237.24

Prevailing Wage Rates

³ Total Bid) T (otal	Bid	
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(Incl. add alternates 3, 5, 6, 7, 8, &16) Phase I funds available Phase I costs Balance \$25,523,145

\$2,813,177
\$2,621,900
\$191,277

\$25,523,145/93,605 s.f. = \$272.67/s.f incl. site \$20,861,823/93605 s.f. = \$222.87/s.f. without site work

Difference between WR and NWR -Base Bid ONLY

\$25,260,895-\$22,206,639 = \$3,054,256 or 13.75%

Difference between WR and NWR -incl. accepted alternates

\$25,523,145-\$22,391,027 = \$3,132,118 or 13.98%

Appendix 9

Summary of Literature Submitted to the Prevailing Wage Task Force

This paper attempts to both analyze and synthesize the almost 50 papers submitted to the Task Force to Study the Applicability of the Maryland Prevailing Wage Law (the Task Force). Our effort has three goals:

- 1) To determine what arguments in the body of submitted work are relevant to the question that most interested the Task Force: What does sound, empirical evidence tell us about the effect of the prevailing wage on the cost of school construction?
- 2) To critically evaluate and isolate the arguments found in the submitted papers so that the Task Force can efficiently deliberate on the matter.
- To draw conclusions from our evaluation, always doing justice to the difficulty of the subject matter.

A brief word about our methodology is important.

First, our universe of papers. The papers submitted to the Task Force from both "sides" of the issue, constituted the root source material we examined. However, in some instances, we took the liberty of including works cited or relied upon in the source papers. When we discuss a work that was not submitted to the Task Force we will note it specifically.

We relied on a "peer review" model for this paper. Our team was composed of David Smulski and Michael Rubenstein of The Department of Legislative Services; Scott Jensen, Sarah Blusiewicz and Daniel Savery of The Department of Labor, Licensing and Regulation; and David Lever and Patrick McGough of The Maryland Public School Construction Program. One of our team members (Sarah Blusiewicz of DLLR) was recruited to draft the paper. The paper was then read and edited by the others. While we benefited enormously from the criticisms of our colleagues, the responsibility for any shortcomings are DLLR's.

While the body of studies was dauntingly large, we were fortunate that a fair number of the papers, while well done and interesting for numerous reasons, were not directly relevant to the interests of the Task Force's discussion. The first section of this paper seeks to set aside these studies and explain the reasoning for doing so.

The second section consists of two parts. In the first, the arguments from the papers claiming prevailing wage raises the cost of school construction are recited, and then matched with the criticisms found in the universe of papers from which we worked. In the second, we reverse roles, laying out the reasons some authors believe prevailing wage does not significantly

add to school contraction costs, and subjecting these claims to available criticism. In the third and final section, we draw the conclusions we believe are warranted from the analysis.

Section One: What studies can be set aside?

We found twenty four (24) studies we believe can be set aside, each falling into one or more of the five distinct categories representing a reason for dismissal.

1) Sources of General Overview

Five (5) publications submitted by Mr. Kingston on behalf of the Maryland Associated Builders and Contractors Chapters and Mr. Waites of O'Donoghue & O'Donoughue, LLP review other articles and reports regarding prevailing without contributing any new research to the topic (Working Partnership USA, 2012; Mahalia, 2008; National Alliance for Fair Contracting, 2003; Wial, 1999; and Leef, 2010). While such studies provide additional opinions on the current research, and in some cases add additional narrative --such as the case study of two similar libraries built in California (Working Partnership USA, 2011) -- the lack of information regarding methodology and data collection does not allow such publications to be grouped with the other empirical studies submitted. We believe that these five (5) studies are derivative of other studies, and should be left aside in favor of the original research from which they spring.

2) Sources Addressing Implementation of Prevailing Wage Law

Eight (8) of the fourteen studies focus primarily on federal and local (non-Maryland) prevailing wage implementation problems regarding how prevailing wage rates are calculated and how requests for determinations are processed. The eight studies are: Columbia University (2012), GAO (2011), GAO (2010a), GAO (2010b), Dean (2009), Glassman, Head, Tuerck, and Backman (2008), GAO (2000), Minnesota taxpayers Association (2005), and Kentucky Legislative Research Commission (2001). In addition, the Casey (2002) details Pennsylvania's enforcement effort. However, the issues identified, such as the difficulty and administrative burden of participating in the federal survey process and submitting certified payrolls, the accuracy of federal wage rates, and the practice of states automatically adopting collectively bargained rates as the prevailing wage, do not apply to Maryland's implementation of prevailing wage . For this reason these nine (9) studies may be left aside.

3) Sources Using Mean Income Data for Comparison to Prevailing Wage Rates

In addition to criticisms of how federal and other states determine prevailing wage rates, four (4) of the articles submitted (Anderson Economic Group (2013), Kersey, (2007), Newman, Blosser, and Haycock (2004), and Minnesota Taxpayers Association, (2005)) compare the prevailing wage rate to the average wage rate for an occupation based on local labor statistics.

Average wage rates are often cited from the Bureau of Labor Statistics or state-generated labor statistics. However, the mean wage rate for an occupation at the state level includes all levels and types of employees in the calculation: helpers to foremen, residential to commercial workers; all employees are averaged together. Prevailing wage rates only establish the journeyman rate for a specified craft within a defined category of construction type. Because the mean wage rate's relation to the prevailing rate is a separate topic altogether, we believe these studies may be left out of consideration. However, later in the paper we will have occasion to revisit this reasoning in another context.

4) Sources Describing the Effects of a Total Repeal of Prevailing Wage

Three (3) studies focus on issues surrounding the existence of prevailing wage law in its entirety; the benefits to states with prevailing wage laws and the risks of repealing such laws (Philips, 1999; Belman and Voos, 1995; and Philips, Mangum, Waitzman, and Yeagle, 1995). The information provided by such studies is valuable for examining the broad context of state prevailing wage laws and long-term effects of maintaining or repealing a state prevailing wage law. However, for the purpose of the Task Force, such studies are not useful because the degree of impact resulting from repealing the law, and conversely implementing the law, is not at issue. Because these studies do not address the impact of extending the prevailing wage law to include a greater number of school projects when some projects already fall under the prevailing wage law, and because they do not directly address the effect of prevailing wage on project cost, we believe these three studies can be set aside for the purposes of the Task Force.¹

5) Sources not Relevant to Maryland

There are three (3) studies we can refer to as the "California Low Income Housing Studies" (Dunn, Quigley, and Rosenthal, (2005), Newman, Blosser, and Haycock (2004) and Dunn, Quigley, and Rosenthal, (2003)), which are difficult to directly relate to Maryland prevailing wage implementation as only residential construction information is examined. Maryland does not have a residential prevailing wage law, nor do any public housing projects fall under the current Maryland Prevailing Wage Law. The authors of the studies do not address the differences between residential and commercial construction or the possible effect such differences may have on the ability to generalize the results found. For this reason these three (3) studies too may be set aside.

¹ Maryland conducts an industry survey every year, collecting wage data by project and county. All information is collected online and no paper is accepted. Wage rates are determined at the county level based on survey submissions for each county. A wage rate will prevail if it represents 40% of the submissions, by weighted average if no single wage rate prevails, or a county will "borrow" another county wage rate, based on economic and regional factors, if no survey information was submitted. If an appropriate wage rate cannot be found in neighboring counties, a localized field survey will be conducted. The electronic survey and payroll system encourages participation in the survey process, as evident by they over 7,000 survey submissions received this past survey_alone. In addition, the electronic system increases the Department's responsiveness, allowing new rates to be posted one month after the survey closes, procurement officers to receive immediate wage determinations when requested, and contractors to submit paperless certified payrolls.

Section Two: Critical Evaluation of Papers Relevant to the Work of the Task Force.

1) Sources Claiming Prevailing Wage Drives Cost Higher and Criticism of that Position

There have been several direct studies both supporting and criticizing state prevailing wage laws and their effect on state expenditures on capital projects. Of these, the following studies conclude prevailing wage increases the cost of public projects: Anderson Economic Group (2013); Kersey, (2007); and Ohio Legislative Service Commission (2002). In addition to these articles, the following studies have served as the basis for the argument of higher costs due to prevailing wage: Fraundorf and Farell (1984) and Thieblot (1986). In general, the authors find prevailing wage laws increase labor costs well beyond the mean income level for each occupation, driving up project costs and limiting the number of projects able to be funded.

There are a number of criticisms of this position, and most center on methodology. Critics rely on the basic position that those who claim that prevailing wage drives costs higher use insufficient control variables when they try to account for those costs in the projects they cite. For example, the authors of the Anderson Economic Group (2013) themselves say that "We do not consider changes in worker productivity, material costs, or labor share that may occur in the absence of a prevailing wage." One of the foundational studies on which a number of the papers that take the high-cost position relies, Fraundof (1984), is criticized by explicitly in a paper by Prus (1996) for neglecting the difference between public and private projects when calculating the effect of prevailing wage.

In addition to not accounting for variables when projecting project savings, the most recent Mackinac Center study (Kersey, 2007), as its predecessor (Vedder, 1999), uses descriptive data to draw conclusions rather than empirical methods. For example, Kersey calculates the valueadded per construction worker and value-added per dollar of compensation using data from the U.S. Economic Census of 2002 (Kersey, 2007). However, Kersey does not provide the calculations used to determine these values. Prevailing wage rates are also compared to poverty level wages by Kersey (2007) in an effort to support the argument prevailing wage regulations are not needed to prevent construction wages from falling to poverty levels. However, prevailing wage regulations are instituted to protect regional construction wage rates, not protect construction wages from dropping to poverty levels. Kersey (2007) also uses mean wage data to support his conclusion prevailing wage increases construction costs, which as stated in the first section of this paper, does not provide an accurate comparison. Finally, Kersey (2007) claims differing job categories between union and non-union contractors will discourage non-union participation in the bidding process; however, the Kentucky Legislative Research Commission found union and non-union job categories were similar (Kentucky Legislative Research Commission, 2001).

Philips (2001b), one of the "source" studies, in which many of the critic's positions are best articulated, takes issues with the 1999 Mackinac Center study's methodology, citing four biases that skew the study's results, making replicating those results in other states impossible. Philips argues Vedder's use of low employment growth data as before period data and higher employment growth data as after period rates, privately calculated data rather than public information, adjusted data in December 1994 without supporting evidence, and his assumption of "a weak connection between Michigan's overall business cycle and swings in construction employment" bias the study, making it impossible to replicate (Phillips 2001b). Philips concludes "when his [Vedder] experiment is applied to other states, it comes out wrong each time" (Philips, 2001b).

Thieblot's methodology in comparing bid and rebid prices before and during the 1971 suspension of Davis-Bacon is questioned by Mahalia (2008), who asks whether the changes in bid prices found by Thieblot are due to the effect of prevailing wage or the advantage of bidder's knowing competing bid amounts when submitting bids the second time. The Ohio Legislative Service Commission's study (2002) is also refuted on the basis of insufficient explanation of results by Weisberg (2002). The Legislative Service Commission's regression analysis only found prevailing wage to be responsible for 1%-3% of the total difference in project costs. As Weisberg (2002) argues, such a low percentage is not recognized as statistically significant, yet the Legislative Bureau attributed all savings to the absence of prevailing wage without identifying any other factors that were responsible for the other 97%-99% of the cost difference.

2) Sources Claiming that Prevailing Wage Does Not Drive Cost Higher and Criticism of that Position

We were fortunate that there was a robust academic criticism that addressed the studies claiming prevailing wage drove construction costs significantly higher, because this allows the contours of the debate to stand out clearly. The basic position staked out by those who claim costs were not driven higher significantly higher by prevailing wage can be attributed primarily to the work of two academics: Philips, and Prus. In addition, others like Aszari-Rad and Duncan collaborate with Philips and Prus, to support the position that prevailing wage does not increase project costs. These authors use regression analysis and numerous control variables, addressing the weaknesses they had identified in the work of those, who argue that prevailing wage drives cost significantly higher. While some of their work is a reaction to the studies they criticize, these authors and related authors also conduct their own studies to determine the effect of prevailing wage laws on construction costs.

Authors such as Duncan (2011), and Aszari-Rad, Philips, and Prus (2003) question the conclusion that the estimated percentage of total cost savings can be equal to or greater than the percentage of project labor costs. Citing the Economic Census of Construction's estimate labor, costs only account for 25-30% of the total construction cost, Duncan (2011), refuting Dunn, Quigley, and Rosenthal (2005), states "it is unlikely that the total cost of construction would fall

by up to 37 percent from a regulatory change that primarily affects a cost component that accounts for only 25 to 30 percent of total costs." In addition, Aszari-Rad, Philips, and Prus (2003) question Fraundorf and Farrell's (1984) finding that 26% of the final cost could be saved from labor costs, which only account for 30% of the total cost of a project.

Several studies conclude that prevailing wage does not affect project costs by examining school construction data. A national study of school construction conducted by Aszari-Rad, Philips, and Prus (2003) found that economies of scale affected project costs, but prevailing wage had no significant effect. The same authors conducted a similar study in 2002 to compare the costs of private and public schools, with control variables in place, and found prevailing wage to have no significant impact on project costs. Additional studies including Bilginsoy, Cihan, and Philips (2000), Philips (1998), Philips (2001a), and Prus (1999), all conclude that prevailing wage does not affect project costs when control variables accounting for differences in business cycles, region, project characteristics, etc. are added to the regression analysis used.

While our work within the universe of studies submitted to the Task Force, or our attempt to locate work related to this universe, failed to yield direct criticisms of the positions taken by Phillips, Prus and Aszari-Rad's work,[1] these studies also have certain weaknesses. For example, Aszari-Rad, Philips, and Prus (2003) themselves mention the need for additional research into how the type of construction can effect costs, and how collected data are limited to accepted bid prices when "prevailing wage regulations may affect the prevalence or absence of change orders after the bid has been accepted," preventing researchers from comparing project bid costs to final project costs after any project changes or adjustments are made. Philips (2001a) also identifies this use of bid data as a weakness for determining the impact of prevailing wage. Facing data limitations, Bilginsoy, Cihan, and Philips (2003) describe the seven years of data used to establish the construction business cycle as "crude" because data is annually based rather than quarterly. Prus (1999) describes his own reservations regarding data, stating that inferences regarding the comparison of public high schools built under prevailing wage to private high schools are "shaky at best" due to the small sample size available.

One final study of those submitted to support the argument that prevailing wage does not affect the cost of a project. Duncan (2011) analyzes final construction cost data for Colorado highway resurfacing projects. Whereas most other studies rely on bid costs or estimates of project costs, Duncan uses actual final cost data to compare federal prevailing wage projects to local non-prevailing wage projects. Duncan found that the increased productivity and efficiency of workers on prevailing wage projects offset the higher cost of wages, the presence of prevailing wage regulations did not contribute to a reduction of bidders for projects, and union contractors were not more likely to win prevailing wage contracts (Duncan, 2011). Philips (2001a) provides an explanation for how increased productivity offsets higher wage rates: "prevailing wage regulations induce contractors to hire a more skilled labor force and equip them with better, more up-to-date, tools, materials and equipment. It also induces management to compete over better management strategies and techniques." The Construction Labor Research Council (2004) study

supports this conclusion, finding that states with higher prevailing wage rates had lower per-mile costs for highway construction projects.

Conclusion

Having set aside a number of the studies submitted by both sides, and after exploring the arguments in the studies we believed on point, we are prepared to offer the following conclusions to the members of the Task Force:

1) During the Task Force meeting, a claim was made that the studies submitted asserting that prevailing wage drove cost higher were refuted by those that hold the opposing view. That is provisionally true. When evaluating the potential impact of prevailing wage on local government expenditures, control variables determine the projected costs or savings; if such variables do not accurately account for changes beyond the cost of wages, those estimates can be drastically misrepresented. Studies by Philips, Aszari-Rad, and Prus apply the most variable controls to their analyses and consistently draw the same conclusions throughout multiple studies with differing parameters. Further, these authors make a compelling case that studies that do not approach the matter similarly are flawed. However, we cannot say definitively that there are no other arguments in the relevant literature on this matter countering the position to which Phillips, Aszari-Rad, and Prus have laid claim. Our conclusion is provisional because we worked only within the large universe of studies submitted, as well as work directly related to it, and within that sphere, a successful response was not evident.

2) Data limitations create difficulty for researchers on both sides of the issue. In order to clearly define the effect of prevailing wage on construction costs, consensus regarding control variables used during analysis must be reached, both bid and total construction cost data for all projects must be analyzed, and the effect of expanding the prevailing wage must be differentiated from the total effect of the existence of prevailing wage in Maryland.

3) Of the work submitted, we have concluded that the work of Phillips, Aszari-Rad and Prus is the most persuasive. In the papers "State Prevailing Wage Laws and School Construction Costs", "Making Hay When It Rains: The Effect Prevailing Wage regulations, Scale Economies, Seasonal, Cyclical and Local Business Patterns Have on School Construction Costs", and "Prevailing Wage Regulations and School Construction Costs: Evidence From British Columbia", the best articulation of their position is found. We believe it is a profitable use of time for one who wants to look further into the issues of what prevailing wage does to construction costs to read these papers, explore their arguments, and find compelling reasons why the positions in these papers are mistaken, if they are.

4) Source data used to draw comparisons to prevailing wage rates can often be misleading. Prevailing wage sets the journeyman rate for each worker classification. If mean wage rate data is used as the comparison rate to determine cost savings estimates, those estimates will be inflated as the mean data will include non-journeyman wage information. Further, if contractors who pay the prevailing wage independent of the regulation submit the winning bid for a project, no cost savings will occur.

5) Studies have questioned the various methods used to determine prevailing wage rates federally and at the state level, and the accuracy of the resulting determinations. The accuracy of the prevailing wage rate will determine if the wages paid on public projects reflect the market wage rate of a journeyman on a non-public project. Maryland's use of an electronic survey annually produces thousands of wage rate submissions, which are used to calculate the prevailing wage. If the survey process accurately reflects localized wage rates, the potential for any cost savings, regardless of changes in other variables, will be greatly reduced.

6) The numerous studies submitted and examined include differing study areas both nationally and internationally. When examining the results concluded from each study, differences between federal and other state prevailing wage laws must be evaluated, and specifically compared to the current Maryland prevailing wage law. Such differences influence the extent to which conclusions can be generalized to the possible effect of lowering the threshold of Maryland's Prevailing Wage Law.

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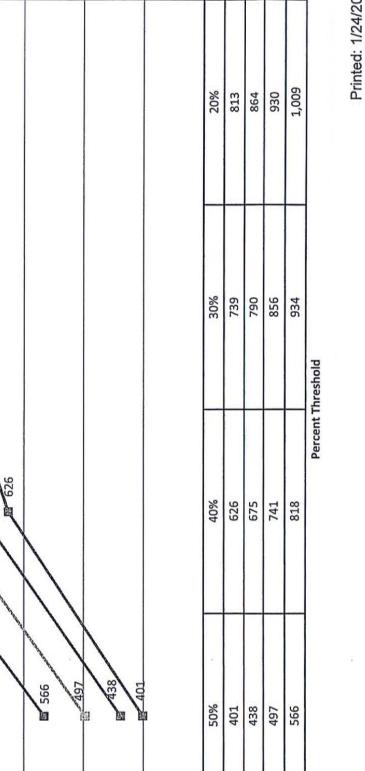
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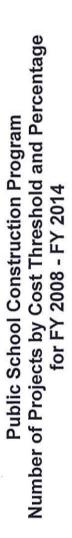
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Appendix 10





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	PREVAILING WAC	PREVAILING WAGE RATE ANALYSIS				
	CARROLL COUNT	CARROLL COUNTY PUBLIC SCHOOLS				
	FY07, FY08, FY09, I	FY07, FY08, FY09, FY10, FY11, FY12, FY13 (partial)	(partial)			
	March 6, 2012	July 30, 2012	January 14, 2013			
Bid Date	School	Project	Without Prevailing Wage	With Prevailing Wage	S Difference	% Difference
Feb-07	Robert Moton Elem	HVAC Replacement	\$3,527,000	\$3,824,000	\$297,000	8.4% higher
May-07	Sykesville Middle	Roof Replacement	\$895,000	\$927,000	\$32,000	3.5% higher
Mar-08	Mt. Airy Middle	Roof Replacement	\$488,888	\$517,546	\$28,658	5.8% higher
May-08	Carrolltowne Elem	Open Space Enclosures	\$2,473,900	\$2,756,500	\$282,600	11.4% higher
Jun-08	South Carroll High	Fine Arts Addition	\$21,508,991	\$23,002,153	\$1,493,162	6.9% higher
Jun-08	Freedom Elem	Full Day K Addition	\$2,410,000	\$2,715,000	\$305,000	12.6% higher
Feb-09	Westminster High	HVAC Replacement	\$22,455,700	\$23,596,900	S1,141,200	5.1% higher
Apr-09	Northwest Middle	Open Space Enclosures	\$2,312,220	\$2,512,220	\$200,000	8.7% higher
May-09	Winfield Elem	Full Day K Addition	\$1,364,207	\$1,471,265	S107,058	7.9% higher
May-09	William Winchester	252-1	\$1,944,900	S2,100,700	\$155,800	8% higher
Jun-09	Mt. Airy Elem	Roof Replacement	\$921,000	\$957,000	\$36,000	3.9% higher
Apr-10	Westminster Elem	Open Space Enclosures	\$2,248,100	\$2,444,600	\$196,500	8.7% higher
May-10	Robert Moton Elem	Full Day K Addition	\$2,026,600	\$2,230,600	S204,000	10.0% higher
Mar-11	Hampstead Elem	HVAC Replacement	\$2,508,000	\$2,648,885	\$140,885	5.3% higher
Jun-11	Mt. Airy Middle	Replacement School	\$24,025,161	\$26,115,871	S2,090,710	8% higher
Jan-12	Freedom Elem	Roof Replacement	\$532,900	S551,500	S18,600	3.4% higher
Feb-12	Hampstead Elem	1.4.00.00	\$717,400	S757,200	\$39,800	5.3% higher
May-12	William Winchester	Roof Replacement	\$440,000	\$470,000	\$30,000	6.8% higher
Jul-12	Robert Moton Elem	Open Space Enclosures	\$2,602,200	\$2,684,706	\$82,506	7.0% higher
Nov-12	Freedom Elem	Heat Plant Conversion	\$739,000	\$\$22,000	\$83,000	3.2% higher
	Totals		\$96,141,167	\$103,105,646	\$6,964,479	7.2% higher
A	Totals Accepted with PW		\$62,916,056	\$67,434,888	\$4,518,832	7.2% higher
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Appendix 11

Maryland State & Washington D.C. Building Trades Council

Position Statement Supporting Full Application of State Prevailing Wage Law to School Construction

Gerard M. Waites, Esq. gwaites@odonoghuelaw.com

I. Introduction

This position statement is submitted on behalf of the Maryland State & Washington D.C. Building Trades Council (Council), and the 45,000 skilled construction workers it represents, in support of legislation expanding Maryland Prevailing Wage (PW) law to all school construction projects. The Council strongly urges the Prevailing Wage Task Force to issue a favorable report in this matter at the conclusion of its deliberations for the reasons set forth below.

II. Overview

PW law is sound, progressive legislation that provides substantial advantages—both in terms of fiscal impact and other related public policy benefits—to all affected stakeholders. As shown below, these beneficiaries include the State itself, school construction authorities, affected contractors, Maryland workers, local communities where projects are located, and taxpayers generally. While over 30 states have PW laws, Maryland alone limits application of its law to school construction projects receiving 50 percent or more of state funding. It's time for Maryland to correct this anomaly and become a leader in Prevailing Wage policy as it is in so many other areas of progressive government.

III. Supporting Points & Authorities

A. Prevailing Wage Law Has No Impact on Total Project Cost

- <u>Extensive Research</u>: At least twenty-six (26) studies by various universities and non-profit organizations—including one that specifically examined Maryland school construction—have found that the application of PW law to public works projects has no real impact on total project cost.¹
- 2. <u>Consistent Results</u>: These studies are based on exhaustive research that reviews massive empirical data covering tens of thousands of projects in at least 26 states. They conclude uniformly and consistently that—when key variables are controlled, including location, inflation and project type and size—there is no statistically significant difference in cost between PW and non-PW projects.²
- 3. <u>Productivity Pays</u>: A key finding made repeatedly in PW research is that while such laws may result in higher hourly labor cost—total project costs remain unaffected because these policies consistently promote better quality training and greater skill levels, which in turn increase labor productivity. As discussed below, promoting skill training is also vital due to looming skill shortages.

B. PW Law Generates State Jobs, State Income and Vital Public Policy Benefits

1. Jobs for Residents: Research also shows that states that have PW laws benefit by creating good jobs for state residents. Compelling evidence in Maryland drives this point home.

¹ See Attachment A hereto, List of PW Research Authorities; MD report is Study No. 17 on the List. See also PW Cost Impact White-Paper, available upon request. Related research shows a handful of contrary reports that purport to show PW increases construction cost—but virtually all of these have been exposed as inaccurate or otherwise flawed due to incorrect methodologies or other problems. See e.g., Attachment A, Studies No. 3 and 20; see also PW White Paper, pp. 6-8.

² See Attachment A.

- Recent statistics from the Department of Labor, Licensing and Regulation (DLLR) show that <u>PW</u> projects employ over 76% state residents.³
 - After reviewing 740 public works projects over a 15-month period (5/12 to 8/13), DLLR found that 76.34% of the workers employed were state residents.
 - In terms of employment of state residents, these projects yielded over 140,000 jobs for Maryland taxpayers; thus, residents directly benefitted from taxes used to fund these projects.
- DLLR's findings are not surprising—the central purpose of PW law is to promote local employment by maintaining area standard wages.
- In MD, the law is working and generating tremendous employment opportunities on all statefunded construction—except schools.⁴
- <u>Income for State</u>: Employment of residents on public works generates major economic dividends for Maryland because millions of dollars are paid back in state income and sales taxes. More wages and disposable income are also spent in-state when PW law applies.
 - The University of Missouri found that non-application of PW would have a colossal negative cost impact on the state and its residents.
 - Specifically, this report showed that: (a) Missouri workers and their families would lose from \$294.4 million (M) to \$356M annually in income; and (b) the state would lose \$17.7M to 21.4M annually in income tax and \$5.7M to 6.9M in sales tax revenue annually.⁵
- 3. <u>Net Positive Impact</u>: If PW requirements have no real impact on total project cost, as the research conclusively shows, it must be concluded that such policies have a major net positive economic impact on the state due to the tax and income factors noted above.⁶
- 4. <u>Skill Training/Worker Safety</u>: The extensive research cited above also shows that PW laws promote vital skill training in construction industry and improve worksite safety. The former is vital as skill shortages have been recognized as the Number 1 problem in the state's construction industry;⁷ the latter is also extremely important since construction is one the most dangerous of all industries and increased incident rates impose higher workers compensation costs for states.
- C. Conclusion

The Council respectfully submits that the points and authorities set forth above provide compelling grounds for the Maryland PW Task Force to issue a favorable report in support of full application of prevailing wage law to state school construction programs.

³ See Attachment B hereto, Excerpts from DLLR Report presented at the September 10, 2013 meeting of the PW Task Force by Commissioner Ron Dejulis.

⁴ When PW rules apply, firms have greater incentives to hire state residents because it is no longer economical to hire out-of-state workers at substandard wages. While the positive jobs impact is apparent for PW projects, it's unclear what occurs on non-PW projects. However, it is highly likely that many more non-residents are employed since contractors have strong incentives to bring in low-wage workers from other areas to maximize profit. However, because project costs are the same on PW and non-PW, this just means excess profit for the contractor—who may also be out-of-state—at the expense of taxpaying residents who lose jobs.

⁵ See Attachment A, Study No. 7, p. 3 Missouri.

⁶Moreover, some studies have further shown that project costs escalated after PW was eliminated as the result of lower labor productivity and increased change orders. See Attachment 1, Study No. 23.

⁷ Maryland Center for Construction, Education & Innovation, *The Critical Path, Key Findings and Recommendations*, p. 9 (2012); available at www.mccei.org/mccei/Resources/MCCEIStudyTheCriticalPath.aspx.

Attachment A

RESEARCH STUDIES IN SUPPORT OF PREVAILING WAGE

(Links to Studies Online Where Available)

- 1. Economic, Fiscal and Social Impacts of Prevailing Wage in San Jose, California, WORKING PARTNERSHIPS USA (2011), http://wpusa.org/5-13-11%20prevailing wage brief.pdf.
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ATTACHMENT B

SENATE TASKFORCE ON PREVAILING WAGE IN MD.

Jan-July 2013

Contractors on site 1083 Employees interviewed 4139 Restitution recovered \$146,639.00 # Employees receiving 212 Certified received 39,948 Jan-Dec. 2012

Contractors on site1490Employees Interviewed7068Restitution recovered\$651,033.09# Employees receiving358Certified received34,963Jan-Dec.201134,963

Employees Interviewed 5583 Restitution recovered \$482,463.37 # Employees receiving 555 Certified received 56,904 Jan-Dec.2010

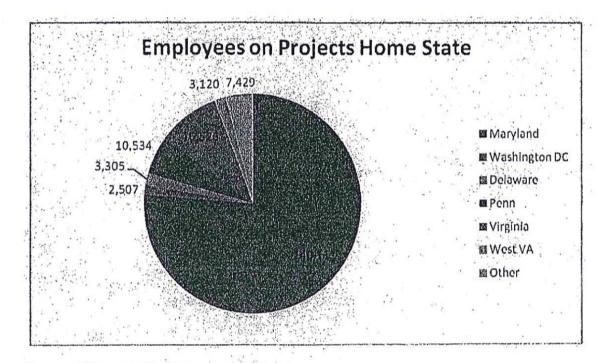
Employees interviewed 4206 Restitution recovered \$380,116.50 # Employees receiving 513 Certified received 42,066 Jan-Dec.2009

Employees Interviewed3593Restitution recovered\$428,914.76# Employees receiving417Certified received43,828

- The PW Unit has registered 251 State Procurement agents since going online in 2010.
- 1947 Contractors and employers have registered since 2010.
- 84 Unions and 10 Trade Associations have registered.
- The electronic certified payroll system collects on average 260 certified payrolls per day.

23.

- The PW Unit no longer needs to store paper certified payrolls.
- Employee SSN's are no longer redacted by hand for an MPIA request which once took almost 4 weeks to complete on large request. Today a report can be generated the same day without exposing any of the employee's personal information.



* May 2012 till August 2013.

183,532 Employee Records
76.34% - MD - 140,111
1.37% - DC - 2,507
1.80% - DE - 3,305
5.74% - PA - 10,534
9.00% - VA' - 16,526
1.70% - WV - 3,120
4.05% - Other - 7,429

The question is "How many Maryland Residents worked" on PW projects? The time frame was from May 2012 till August 2013.

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Maryland State & Washington D.C. Building Trades Council

Supplemental Position Paper to the Task Force To Study the Applicability of Maryland Prevailing Wage Law

Gerard M. Waites, Esq. O'Donoghue & O'Donoghue, LLP <u>gwaites@odonoghuelaw.com</u>

January 27, 2014

The following information is being submitted as a supplement to our prior position statement in this matter and in response to the December 16, 2013 paper submitted by the Maryland Chapters of the Associated Builders and Contractors (ABC) to aid the Task Force's review of the proposed expansion of Prevailing Wage law in Maryland.

I. Overview

Over the course of the summer study on *Applicability of Maryland Prevailing Wage Law*, the Maryland State & Washington D.C. Building Trades Council ("Council") provided extensive research and evidence showing that Prevailing Wage law:

(a) Does not have a real or statistically significant impact on total project cost; and

(b) Produces substantial positive economic and public policy benefits for Maryland, which include returning tax dollars to the state, increasing labor quality and improving project delivery, and promoting safety and critically needed skill training in the construction industry.

To date, the Council has provided a comprehensive binder of 26 pro-prevailing wage research studies and reports, a Prevailing Wage White Paper and an overview position statement summarizing all relevant points and authorities in support of the major benefits Prevailing Wage policy provides to Maryland.

At the last meeting of the Prevailing Wage Task Force, ABC provided a list of studies (14) which were purportedly offered to support its claim that prevailing wage law increases construction costs. As shown in further detail below, the reports provided by ABC are not at all persuasive because they are inaccurate or otherwise unreliable. In a number of cases these reports were squarely rebutted by much more credible research supplied by the Council.

In fact, the research offered by the Council, which has *not* been rebutted by any professional source, provides a solid body of credible evidence in support of the claims we have made regarding the significant benefits of prevailing wage policy. Moreover, the positive findings are based on extensive research and analysis of literally tens of thousands of projects in numerous states across the country and conducted by economists with substantial specialized experience in this field.

For example, one of these reports was a highly credible study commissioned by Prince George's County examines school construction in Maryland and is, therefore, directly on point--analyzed a full <u>6 years' worth</u> of Maryland school construction data on a total of 186 school projects. This report alone provides a highly persuasive case in support of prevailing wage in Maryland.

In sum, both the quality and quantity of evidence in support of prevailing wage law is substantially greater that the limited and generally discredited information provided in opposition to this policy. The reports submitted in opposition are inaccurate or otherwise unreliable for the reasons set forth below.

II. Review & Analysis of ABC Reports

A. Disputed Accuracy

As demonstrated by several of the sources previously submitted by the Council, many of the studies submitted by ABC purporting to show that prevailing wage requirements increase total project costs have been shown as flawed or otherwise unreliable when subject to careful review. As explained in detail in the Council's prior submission, papers by authors Peter Philips, Mark Prus, and Nooshin Mahalia fully demonstrate that any anti-prevailing wage studies that fail to control for relevant variables that affect the cost of construction—such as inflation, project type, project location and the time of year of construction—are highly inaccurate.

In contrast, when all relevant variables are properly accounted for, prevailing wage requirements have no statistically significant effect on total project costs. ABC's submission fails to offer any criticism of the more rigorous studies making this conclusion. As these studies thoroughly evaluate all the relevant factors before drawing conclusions about prevailing wage requirements, their conclusions are more robust and therefore more reliable than the disputed findings in the papers cited by ABC.

B. Non-Applicability

In addition to concerns about the accuracy of their findings, several of the papers named by ABC are simply not applicable to the question faced by the Task Force, whether to expand Maryland's current prevailing wage requirements. Instead, several of the ABC papers criticize the administration of prevailing wage requirements and/or their effects on wage levels.

Such criticisms have little to no application to the Task Force's work because first, raising wages in and of itself is no reason to fail to apply prevailing wage requirements. To the contrary, as established by the authorities previously submitted by the Council, increased wages provide other measurable benefits that have the overall effect of improving project delivery due to increased worker productivity and safety. Additionally, the administrative problems cited by the ABC papers do not apply to Maryland's prevailing wage system, which is well-implemented and administered and therefore does not suffer from the same problems of efficient wage determination as the federal and state programs mentioned in those papers.

C. Limited Quantity

In addition to the accuracy and applicability problems noted here, the ABC submission provides only a handful of authorities studying a somewhat limited data set of public construction costs and prevailing wage requirements. In contrast, the Council's submission produced 26 major studies from credible, reputable sources, representing decades of research and tens of thousands of data

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points evaluated by professional researchers that control for relevant factors before drawing a conclusion. In comparing the body of research marshaled by the Council to that of ABC, the bulk of the evidence evaluated comes down in favor of prevailing wage requirements and shows that they have little effect on overall project costs while producing several important social benefits.

D. Failure to Account for Benefits of Prevailing Wages

Another major flaw in ABC's submission is the failure to evaluate any of the effects of prevailing wage requirements other than their effect on labor costs. As established by the Council's prior submission, however, the application of prevailing wage requirements produces several benefits, including but not limited to increased worker efficiency, productivity and safety as well as social benefits such as increased resident income and therefore increased tax receipts for the local government as well as reduced reliance on public support. Any thorough analysis of expanding prevailing wage requirements must consider these benefits in its evaluation.

The submission by ABC focuses on the effect of prevailing wage requirements on wages, and we agree that prevailing wage requirements do increase wages and labor costs, which are an element of any school construction project. However, it is only one factor, and as the evidence submitted by the Council shows, the benefits of prevailing wages offset the increase in labor costs. Ultimately, several authors have shown that on balance prevailing wages do not increase overall project costs for public school construction and have the added benefit of improving project delivery.

III. Conclusion

In sum, the Council submits that on the basis of all information submitted, it is clear that weight of the evidence strongly supports the case that prevailing wage policy has no real impact on project costs and produces substantial economic and public policy benefits for Maryland. Accordingly, we respectfully urge the Task Force to issue a favorable report on this matter as soon as possible.



MACo Position Statement Task Force to Study the Applicability of the Maryland Prevailing Wage Law February 24, 2014

The Maryland Association of Counties (MACo) **OPPOSES** SB 204 and SB 232. SB 204 substantially broadens the applicability of the State's prevailing wage law to apply to all local governments regardless of the amount of State dollars received. The bill also lowers the dollar threshold for a project to \$25,000 and expands the calculation of the prevailing wage to include combined hourly wages and fringe benefits. SB 232 would require prevailing wage rates to be paid for a local public works project receiving any amount of State funds, if the dollar amount of the project is \$500,000 or greater.

Currently, State prevailing wage laws apply only if at least 50% of the project costs are Statesupported. Both of these bills substantially expand the application of the prevailing wage law, increasing project costs and affecting the number of projects budgeted each year.

While each bill offers a different approach, they propose a "one size fits all" prevailing wage determination, which would significantly undermine a local government's ability to fund and manage its capital budget, especially those smaller in size and in more rural areas of the state. The Task Force to Study the Applicability of the Maryland Prevailing Wage Law has focused its discussions on school construction projects. Data shared with the Task Force suggests that school construction projects bid with prevailing wage have an average cost increase ranging from 3% to 30% depending on the type of project. The cost differential for a recent project bid in Frederick County was 13%. Local governments receive State support in varying amounts for a number of public works projects, including school construction, transportation, jails, and recreation facilities. Imposing a State-mandated cost increase on primarily locally funded projects reduces their affordability, and means fewer such projects can be supported.

Further, most local governments do not have the same overall presence in the marketplace to affect competitive wages, and with the weak economy and State cost shifts of recent years, many have significantly reduced their capital budgets. Placing new, overly broad prevailing wage mandates on local governments would further limit the number of projects funded each year by increasing project costs and limiting local flexibility.

Both bills would also affect the State's ability to extend funding for school construction projects. As described in the Report of the Capital Debt Affordability Committee on Recommended Debt Authorizations for Fiscal Year 2015, the escalation in building costs over the past ten years has hampered the State's efforts to bring all public schools up to minimum standards and school construction needs continue to exceed the anticipated level of State funding. Both the statutory debt limitations and the inability of the current state property tax rate to fund ongoing debt service make this restraint immediately relevant. Policies increasing the cost of capital projects cannot simply be "rolled into" a larger capital budget. Inevitably, project cost inflation means that more much-needed school projects will be denied funding altogether.

For these reasons, MACo **OPPOSES** expanding the prevailing wage law to apply to all local jurisdictions or lowering the threshold for the percentage of State funding that triggers whether the prevailing wage applies.



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The Voice of Merit Construction

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ASSOCIATED BUILDERS AND CONTRACTORS (ABC)

POLICY STATEMENT

MARYLAND STATE PREVAILING WAGE

ABC opposes any expansion of the current Maryland Prevailing Wage law. As stewards of the public tax dollars, it is the State of Maryland that should be resolute in cutting back, not expanding the use of prevailing wage on public construction projects. Study after study has shown the cost of the same project to increase by 10-20% because of the use of prevailing wage. This cost increase results from the prevailing wage rules and procurement bidding process that strictly limits how labor is proposed thus limiting competition. The following bullets summarize the inequities in using the current prevailing wage system:

- The bidding process inherently creates a more costly bid due to inflated wage scales ... thus requiring greater outlay of tax dollars to pay construction workers employed more than would otherwise be necessary.
- Second, prevailing wage laws often interfere with efficient labor utilization because their enforcement mandates adherence to union work rules in most instances.
- Third, they impose additional compliance costs, including litigation, on contractors.
- Fourth, prevailing wages require additional administrative costs in determining what wage rates "prevail", reporting those weekly wages, and also adjudication and enforcement costs related to differing interpretations of the prevailing wage program rules. There is also the problem of how to "classify" employees as the union and non-union models vary in this area.

No expansion of the Prevailing Wage law is justified or warranted. The end result is the State will be paying more for less. Which school, library or police station doesn't get built? If any changes are made to the law, it should be to ensure that the "prevailing wage" is truly the prevailing wage in the open market across all firms and not one used as a result of unions dominating the survey process. Prevailing wage laws are meant to eliminate competition in one of the main elements in construction –namely, the cost of employing the necessary labor. There is no doubt that they accomplish that and, in doing so, add significantly to public construction costs.

Efforts by prevailing wage proponents to depict these laws as having some social benefit fail. Fixing the price of labor does nothing to increase safety, train new workers, promote quality or any other desirable objective. Nor is there any social benefit in "protecting" union wage standards and work rules from competitive open market pressure. Prevailing wage laws are special interest legislation trying to masquerade as wise public policy. It is bad public policy for government to assist any group of sellers in their desire to fix prices and stifle competition. The best public policy is to permit all firms to bid ... to allow all firms to determine their own cost structures based on a standard set of specifications for a project. Let the market decide the most efficient use resources in creating bids for public work.

It is for all these reasons that ABC recommends no expansion of the prevailing wage law in Maryland.

January 23, 2014

STATE PREVAILING WAGE LAWS RANKED BY GENERAL DOLLAR THRESHOLD FOR CONTRACT COVERAGE

(AS OF JANUARY 1, 2013)

		2 C
1.	Illinois	\$0
1.	Massachusetts	\$0
1.	Missouri	\$0
1.	Nebraska	\$0
1.	New York	\$0
1.	Texas	\$0
1.	Washington	\$0
1.	West Virginia	\$0
9.	California	\$1,000
9.	Rhode Island	\$1,000
11.	Hawaii	\$2,000
12.	New Jersey	\$2,000/\$14,187/\$50,000
13.	Minnesota	\$2,500/\$25,000
14.	Delaware	\$15,000/\$100,000
15.	Alaska	\$25,000
15.	Montana	\$25,000
15.	Pennsylvania	\$25,000
15.	Wyoming	\$25,000
19.	Wisconsin	\$48,000/\$100,000
20.	Maine	\$50,000
20.	Oregon	\$50,000
20.	Tennessee	\$50,000
23.	New Mexico	\$60,000
24.	Ohio	\$60,000/\$200,000
25.	Arkansas	\$75,000
26.	Nevada	\$100,000
26.	Vermont	\$100,000
28.	Connecticut	\$100,00/\$400,000
29.	Kentucky	\$250,000
30.	Indiana	\$350,000
31.	MARYLAND	\$500,000

Source: U.S. Department of Labor, <u>http://www.dol.gov/whd/state/dollar.htm</u> Additional details on State contract coverage thresholds are available on this site.

MD Public School Construction Program Low Bid Comparison Prevailing Wage vs. Non-Prevailing Wage Bids January 2012 - May 2013

Bid No.	PW Bid	Non PW Bid	Difference \$	Difference %
1	\$822,000	\$739,000	\$83,000	11.23%
2	\$757,200	\$705,000	\$52,200	7.40%
3	\$1,487,593	\$1,285,830	\$201,763	15.69%
4	\$3,070,300	\$2,690,000	\$380,300	14.14%
5	\$1,299,900	\$1,236,618	\$63,282	5.12%
6	\$4,697,500	\$4,321,100	\$376,400	8.71%
7	\$1,152,808	\$1,133,172	\$19,636	1.73%
8	\$5,135,000	\$4,621,500	\$513,500	11.11%
9	\$3,218,000	\$3,047,000	\$171,000	5.61%
10	\$3,235,000	\$3,047,000	\$188,000	6.17%
11	\$1,175,000	\$993,000	\$182,000	18.33%
12	\$2,325,000	\$2,325,000	\$0	0.00%
13	\$2,252,000	\$1,872,000	\$380,000	20.30%
14	\$803,000	\$776,735	\$26,265	3.38%
15	\$871,000	\$666,850	\$204,150	30.61%
16	\$311,371	\$303,906	\$7,465	2.46%
17	\$127,200	\$87,750	\$39,450	44.96%
18	\$6,956,000	\$6,234,000	\$722,000	11.58%
19	\$4,850,255	\$4,581,808	\$268,447	5.86%
20	\$2,092,000	\$2,060,000	\$32,000	1.55%
21	\$1,349,000	\$1,249,000	\$100,000	8.01%
22	\$1,070,000	\$1,038,000	\$32,000	3.08%
23	\$1,017,675	\$930,919	\$86,756	9.32%
24	\$3,544,598	\$3,222,998	\$321,600	9.98%
25	\$782,000	\$719,300	\$62,700	8.72%
26	\$2,025,500	\$1,569,400	\$456,100	29.06%
27	\$1,618,300	\$1,517,300	\$101,000	6.66%
28	\$1,093,100	\$1,047,700	\$45,400	4.33%
29	\$1,513,500	\$1,400,000	\$113,500	8.11%
30	\$490,190	\$466,420	\$23,770	5.10%
31	\$992,700	\$827,500	\$165,200	19.96%
32	\$106,780	\$106,780	\$0	0.00%
33	\$110,700	\$104,834	\$5,866	5.60%
34	\$134,737	\$90,261	\$44,476	49.27%
35	\$130,400	\$114,800	\$15,600	13.59%
36	\$195,500	\$177,500	\$18,000	10.14%
37	\$4,567,500	\$3,990,000	\$577,500	14.47%
38	\$787,000	\$762,000	\$25,000	3.28%
39	\$2,158,930	\$1,758,160	\$400,770	22.79%
	\$70,326,237	\$63,820,141	\$6,506,096	10.19%

		Comments																																			
	Average Increase Within Bid Package	All Bids							%00%		+23				8.26%					10.20%				1		12.52%			-				4.46%				
	-	Contract	11.23%	2.87%	12.84%	16.76%	13.27%	2.13%	3.88%	10.64%	5.55%	3.31%	7.60%	10.12%	12:36%	2.87%	15.69%	9.66%	7.05%	15.74%	14.14%	13.94%	13.84%	13.87%	10.96%	8.40%	1,48%	7.39%	4.55%	9.62%	%00'0	1.81%	6.39%	8.71%	7.42%	5.61%	
	% of increase for Prevailing Wages	Alternates	10000							44.44%	11.97%	12.50%	9.27%	17.65%	25.00%						2.60%	16.87%	9.66%	0.00%	7.78%	8.89%								5.01%	6.02%	6.02%	
	% of increase for Prevailing Wages Base Bid	Cost	11.23%	2.87%	12.84%	16.76%	13.27%	2.13%	3.88%	8.33%	5.33%	3.22%	7.54%	9.99%	12.33%	2.87%	15.69%	9.66%	7.05%	15.74%	15.28%	13.66%	14.23%	15.26%	11.25%	8.34%	1.48%	7.39%	4.55%	9.62%	0.00%	1.81%	6.39%	9.27%	7.60%	5.56%	
	Total Contract without Prevailing	sagew	739,000	835,176	869,900	854,746	927,000	1,067,200	1,082,000	705,000	717,400	877,000	878,320	998,000	1,055,000	1,500,000	1,285,830	1,615,573	2,017,765	1,379,000	2,690,000	2,730,200	2,727,000	2,747,500	2,884,300	3,041,500	1,281,000	1,236,618	1,318,000	1,310,000	1,652,000	1,657,000	1,689,000	4,321,100	4,574,400	4,748,700	
	Alternates without Prevailing	sageva								45,000	23,400	8,000	27,884	17,000	2,000	•	•	•	•	•	242,000	241,200	233,000	250,500	244,300	320,500								566,800	536,400	491,700	and the second se
	Base Bid Cost without Prevailing	Sagera	739,000	835,176	869,900	854,746	927,000	1,067,200	1,082,000	660,000	694,000	869,000	850,436	981,000	1.054,000	1,500,000	1,285,830	1,615,573	2,017,765	1,379,000	2,448,000	2,489,000	2,494,000	2,497,000	2,640,000	2,721,000	1,281,000	1,236,618	1,318,000	1,310,000	1,652,000	1.657,000	1,689,000	3,752,300	4,038,000	4.257,000	
	Total Contract with Prevailing Wares	CORPAN	822,000	859,176	981,600	998,000	1,050,000	1,089,900	1,124,000	780,000	757,200	906,000	945,031	1,099,000	1,186,500	1,543,000	1,487,593	1,771,623	2,159,938	1.596,000	3,070,300	3,110,900	3,104,500	3,128,500		-	1,299,900	-	_	-	1,652,000		1,797,000	4,697,500	4,913,700	5,015,100	
	Alternates with Prevailing	cofipu								65,000	26,200	9,000	30,469	20,000	2,500	•			•		248,300	281,900	255,500	250,500	263,300	349,000								597,300	568,700	521,300	
	Base Bid Cost with Prevailing Wapes	cafine	822,000	859,176	981,600	998,000	1,050,000	1,089,900	1,124,000	715,000	731,000	897,000	914,562	1,079,000	1,184,000	1,543,000	1,487,593	1.771,623	2,159,938	1,596,000	2,822,000	2,829,000	2,849,000	2,878,000	2.937.000	2,948,000	1,299,900	1,327,981	1.378,000	1,436,000	1,652,000	1.687.000	1,797,000	4,100,200	4,345,000	4,493,800	
	Contractor		I owson Mech	M&E Sales	EMJA	Mick's Plumb.	RW Warner	Denver Elek	M&M Welding	SSK Contracting	National Roofing	Roofing & Sustainable	Cole Roofing	Simpson of Md	J&K Contracting	J&K Contracting	Cole Roofing	Ruff Roofers	Northeast Contracting	Alliace	Towson Mechanical	Keller Brothers	Bob Porter Co.	North Point Buildes	Phillips Way	E. Pikounis Construction	Tecta America E	Cole Roofing	Vatica Contract	CitiRoof Corp.	Autumn Contract	J&K Contracting	Simpson of Md	MRP Contract	Keller Brothers	Homewood Gen.	
	Project Type	Rollor	rentacement	turbundent.				251		Roof	mamappidas					Roof	replacement				Renovation -	Upen Space Enclosure					KOOI	tiauappeda						1.1	construction		
	Bid Date	11/8/2012	7107/011							2/16/2012						5/2/2012					5/16/2013					010010010	3/2//2012							5/7/2012			
-	Project Name Bid Date	Freedom F								Hampstead E.						Westminster	WEST W.				Eldersburg E.	4				L 1. 01	cikrioge c.			())	- 6	1		New Elem.			
	ş	Carrol																								Decord of	Dipwoid										

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		¢				Base Bid			increase	% of	76 OI		
			Base Bid Cost with	Alternates with	Total Contract	Cost	Alternates without	Total Contract without	-	. 0	g	Average Incroase Within Bid	
Project Name Bid Date	te Project Type	Contractor	Sagew	Wages	Wages	Wages	Wages	Wages	Cost /	Wages Alternates	Contract	Package All Bids	Comments
Manor Woods 3/23/2012		Valica Contract	969,294	183,514	1,152,808	952,495	180,677	1,133,172	2	1.57%	1.73%		
ciem.	replacement	CitiRoof Corp.	1,244,250	288,000	1,532,250	1.095,500	258,000	1,353,500	13.58%	11.63%	13.21%		
		Simpson of Md	1,292,000	217,000	1,509,000	1,249,000	201,800	1,450,800	3.44%	7.53%	4.01%		
		Autumn Contract	1,297,000	268,000	1,565,000	1.297,000	268,000	1,565,000	%00.0	0.00%	0.00%		
	-	Cole Roofing	1,313,411	255,389	1,568,800	1,165,830	229,619	1,395,449	12.66%	11.22%	12.42%	Se 44	
		Tecta America E	1,540,000	322,800	1,862,800	1.520,000	274,800	1,794,800	1.32%	17.47%	3.79%		
-	_	J&K Contracting	1,858,000	341,000	2,199,000	1,828,000	321,000	2,149,000	1.64%	6.23%	2.33%	5.36%	
Clarksville E. 1/24/2012			4,555,000	610,000	5,165,000	4,104,000	517,500	4,621,500	10.99%	17.87%	11.76%		
	replacement	and the second second	5,042,000	963,000	6,005,000	4.518.000	853,000	5,371,000	11.60%	12.90%	11.80%		
-		M&M Welding	5,817,075	952,896	6,769,971	5,583,210	896,631	6,479,841	4.19%	6.28%	4.48%		
	-	RW Warner	6.220,000	1.050,200	7,270,200	5,240,000	868,200	6,108,200	18.70%	20.96%	19.02%	11.77%	
New M. #20 3/5/2013	13 1A - General Construction	North Point Builders	3,194,000	24,000	3,218,000	3,024,000	23,000	3,047,000	5.62%	4.35%	5.61%		
		Hancock & Albanese	3,457,000	24,000	3,481,000	3,310,000	23,000	3,333,000	4.44%	4.35%	4.44%		
		Keller Brothers	3.329,000	25,000	3,354,000	3,181,000	25,000	3,206,000	4.65%	0.00%	4.62%		
		Homewood Gen.	3,535,000	25,000	3,560,000	3.350,000	24,000	3,374,000	5.52%	4.17%	5.51%		
	-	William F Klinnensmith	3,515,700	23,800	3,500,000	3,561,800	23,800	3,685,600	5.88%	0.00%	5.84%		
		Bob Porter Co.	4,281,000	23,000	4,304,000	3.983,000	22,000	4,005,000	7.48%	4.55%	7:47%	5.94%	
	2A - Site Work	k Peak Incorp.	2,741,000	494,000	3,235,000	2,581,000	466,000	3.047.000	6.20%	6.01%	6.17%		
		Saco Construction	3,175,444	839,500	4,014,944	3.099.000	834.500	3.933.500	2.47%	0.60%	701e%		
	0	Urban N Zink Contractor	3,230,600		3,891,800	3,112,700	647,000	3,759,700	3.79%	2.19%	3.51%		
			3,750,000		4,100,000	3,550,000	320,000	3,870,000	5.63%	9.38%	5.94%	4.42%	
	3A - Concrete		1,215,000		1,190,000	1,012,000	(19,000)	000'266	20.06%	31.58%	19.84%		
		Charle Charle Construction	1.141.000		1,175,000	1,045,000	28,000	1,073,000	9.19%	21.43%	9.51%		
		Canvon Contractors	1.318.000	43.140	1,364,200	000 660 1	002,12	1 133 000	79 93%	50.00%	23.50%		
-			1,444,500		1,513,500	1,198,000	51,300	1,249,300	20.58%	34.50%	21.15%	18.83%	
	4A - Masonry	-	2,325,000	•	2,325,000	2,325,000	•	2,325,000	0.00%		0.00%		
		George Moehrle Masonry	2,838,000	1.00	2,838,000	2,838,000	•	2,838,000	0.00%	-	%00.0		
-	1 10 12	Masonry Incorporated	3,403,600	•	3,403,600	3,168,600	•	3,168,600	7.42%		7.42%	2.47%	
-	19916 - MC	Kinsley Construction	2,304,000	•	2,304,000	1,872,000	•	1,872,000	23.08%		23.08%	1	
		SA Halac Iron Works	2,252,000	•	2,252,000	2,115,000	•	2,115,000	6.48%		6.48%	-	
4	TA Defer		3,087,000		3,087,000	2,935,000		2,935,000	5.18%		5.18%	11.58%	
	ra - Kooting	Simpson of Md	803,000	•	803,000	776.735	•	776,735	3.38%		3.38%		
		Interetate	1 010 000	•	1 010 000	845,000	•	845,000	3.37%		3.37%		
		Cole Roofing	073,605		973 695	000,620		000,020	17.00.71		14.00.71	1	
		Autumn Contract	959,000		959,000	927.000	•	927.000	3.45%		3 45%	5.67%	
-	9A - Drywall &		943.850	•	943.850	666.850	,	666.850	41 54%		41 54%		
-	Acoustical	Strauer Contracting Inc.	871 000		874 000	072 612		OAT CAT	vaco co		land on		
		J A Argetakis Cont Co.	000'000		939.000	769.000	•	769.000	22 11%		22 11%		
		Finishes, Inc.	1.087.000		1 007 000	000 000		0001001	0/11.77		22.11/0		
		1	· ····································		I non'son's	nnn'neg		850,000	27.88%		27.88%	28.39%	

	out Prevailing Wage Rates (side-by-side) 2012 - May 2013
Public School Construction Program	Listing of Projects that bid with and witho 39 Bids; 4 LEAs; 13 Projects January 20

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	-	Howard - New M. #20	cont'd cont'd				273							Burleigh	Manor M.				Elkridge M.				Rockburn E.		Washington Smithsburg H,	Bestor Elem.						-	-					
	Project Name Bid Date	63	cont'd				20		_					5/3/2013	_		-		5/3/2013			-	5/3/2013			n. 8/16/2012												
	Project Type	9E-Painting			15A - Mechanical					1.1.1	10A - Electrical			Roof	replacement				Roof	replacement			Roof	ichiercentere			3A-Building	concrete			4A-Masonry					TR	canpri	
	Contractor	Tito Contractors	Argos Construction	J A Argetakis Cont Co.	R W Warner, Inc.	G E Tifnail & Co, Inc.	Towson Mechanical	Heer Brothers, Inc.	M. Nelson Barnes & Sons, Inc.	Mallick Mechanical Contractors	Kav Sustame Inc.	The Crown Electric Co.	BoMark Electric	Simpson of Md	Cole Roofing	J&K Contracting	Vatica Contract	Ironshore Contracting, LLC	Simpson of Md	J&K Contracting	Cole Roofing	Ironshore Contracting, LLC	Cole Roofing	J&K Contracting	Waynesboro Construction	Waynesboro Construction	Sody Concrete	Chevy Chase Contractors	Callas Contractors	Dance Bros.	Bragunier Masonry	ckles		S	SA Halac Ironworks	Callas Contractors	RA Hall	Hancock Albanese
Base Bid Cost with	Prevailing Wages	127,200	169,000	190,000	7,159,000	6,821,000	7,113,000	7,555,000	7,238,000	8,348,000	4,700,000 5,282,000	5 289 000	5.139.475	2,441,000	2,431,376	2,800,180	2,092,000	2,333,007	1,349,000	1,389,000	1,612,382	1,593,752	1,222,358	950,000	987,375	3,530,000	760,000	933,000	1,089,000	1,101,500	1,957,000	2,245,000	2.250,000	1,597,800	1,700,000	1.072,000	1,142,000	1,191.000
Alternates with	Prevailing Wages			•	139,000	135,000	125,000	162,000	123,000	300,000	150,255	166.300	160,300	•	•	×	•	100		•	•	•	37,000	120,000	30,300	14,598	22,000	15,400	36,900	24,400	68,500	64,600	98,000	20.500	36.700	21,100	15,800	56,600
Total Contract	with Prevailing Wages	127.200	169,000	190,000	7,298,000	6,956,000	7,238,000	7,717,000	7,361,000	8,648,000	4,850,255	5 455 300	5,299,775	2,441,000	2,431,376	2,800,180	2,092,000	2,333,007	1,349,000	1,389,000	1,612,382	1,593,752	1,259,358	1,070,000	1,017,675	3,544,598	782,000	948,400	1,125,900	1,125,900	2,025,500	2,309,600	2,348,000	1,618,300	1,736,700	1,093,100	1,157,800	1,247,600
Base Bid Cost without	Prevailing	87.750	142,000	155,000	6,097,000	6,163,000	6,351,000	6,450.000	6,638,000	7,268,000	4,446,000	4 594 000	4,633,000	2,202,000	2,099,409	2,730,000	2,060,000	2,097,820	1,249,000	1,359,000	1,391,254	1,416,592	1,057,618	930,000	904,919	3,210,000	699,000	828.000	1.004.000	914,300	1,857,000	1,524,000	1,655,000	1,497,800	1,600,000	1,029,000	1,069,000	1,134,000
Alternates	Prevailing			•	137,000	122,800	125,000	160,000	120,000	295,500	135,808	146 700	143,150	•	•	•	•				•	•	29,000	108,000	26,000	12,998	20,300	13.000	35,300	22,000	64,000	45,400	71.000	19,500	33,500	18,700	14,500	52,300
Total Contract without	Prevailing	87.750	142,000	155,000	6,234,000	6,285,800	6,476,000	6,610,000	6,758,000	7,563,500	4,581,808	002'000't	4.776.150	2,202,000	2,099,409	2,730,000	2,060,000	2,097,820	1,249,000	1,359,000	1,391,254	1,416,592	1,086,618	1,038,000	930,919	3,222,998	719,300	841,000	1,039,300	936,300	1,921,000	1,569,400	1.726,000	1,517,300	1,633,500	1,047,700	1,083,500	1,186,300
<u>a</u>	Base Bid Cost	44 96%	19.01%	22.58%	17.42%	10.68%	12.00%	17.13%	9.04%	14.86%	5.71%	702+34	10.93%	10.85%	15.81%	2.57%	1.55%	11.21%	8.01%	2.21%	15.89%	12.51%	15.58%	2.15%	9.11%	9.97%	8.73%	12.68%	8.47%	20.47%	5.39%	47.31%	35.95%	6.68%	6.25%	4.18%	6.83%	5.03%
% of increase for Dravailland	Wages Alternates				1.46%	9.93%	0.00%	1.25%	2.50%	1.52%	10.64%	12,027	11.98%										27.59%	11.11%	16.54%	12.31%	8.37%	18.46%	4.53%	10.91%	7.03%	42.29%	38.03%	5.13%	9.55%	12.83%	8.97%	8.22%
76 of increase for Prevailing	Total Contract	AA GRek	19.01%	22.58%	17.07%	10.66%	11.77%	16.75%	8.92%	14.34%	5.86%	11.0276	10.96%	10.85%	15.81%	2.57%	1.55%	11.21%	8.01%	2.21%	15.89%	12.51%	15.90%	3.08%	9.32%	9.98%	8.72%	12.77%	8.33%	20.25%	5.44%	47.16%	36.04%	6.66%	6.32%	4.33%	6.86%	5.17%
Average Incroase	Package All Bids		-	28.85%						13.25%			12.43%					8.40%				9.65%		9,49%	9.32% pr	9.98%				12.52%			29.55%		6.49%		1	*
	Comments																								9.32% Actual State participation in project is less than 50%.													

				Base Bid	Alternates		Base Bid Cost	Alternates	Total Contract	% of increase for Draviliare	% of increase	% of increase for Devertion	Average	
Project Nam	Project Name Bid Date	Project Type	Contractor	Cost with Prevailing Wages	with Prevailing Wages	Total Contract with Prevailing Wages	+ 2	without Prevailing Wages	without Prevailing Wages	Wages Base Bid Cost	Prevalling Wages Alternates	Mages Total Contract	Within Bid Package All Bids	Comments
Washington Bester	80	7A-Roofing	Kline	1,300,000	278.000	1,578,000	1,240,000	259,000	1,499,000	4.84%	7.34%	5.27%		
E.cont/d	contid		Interstate	1,350,000	163,500	1,513,500	1,255,000	145,000	1,400,000	7.57%	12.76%	8.11%		
			Autumn Contract	1,350,000	184,000	1,534,000	1,315,000	142,100	1,457,100	2.66%	29.49%	5.28%		
			CitiRoof Corp.	1,385,750	303,800	1,689,550	1.215,600	295,600	1,511,200	14.00%	2.77%	11.80%		
			Heidler	1,599,000	400,450	1,999,450	1,455,000	314,800	1,769,800	%06.6	27.21%	12.98%	8.69%	
		8A-Windows	Engineered Construction	485,200	4,990	490,190	461,600	4,820	466,420	5.11%	3.53%	5.10%		
			Glass & Motals	517,906	5,355	523,261	517,906	5,355	523,261	%00.0	0.00%	0.00%	1.	
			Spear Window & Glass	555,587	4,668	560,255	537,870	4,244	542.114	3.29%	%66.6	3.35%	2.81%	
		9A-Gypsum &	Leonard Kraus	965,300	27,400	992,700	859.700	22,850	882,550	12.28%	19.91%	12.48%		
		acoustics	Cindell	992,339	26,306	1,018,645	936,433	24,464	960,897	5.97%	7.53%	6.01%		
			Building Systems	995,700	11,800	1,007,500	816.700	10,800	827,500	21.92%	9.26%	21.75%		
			Finishes, Inc.	1.034.000	14,200	1,048,200	830.000	13.000	843.000	24.58%	9.23%	24.34%		
			JA Aretakis	1.120,000	7,500	1,127,500	889,000	6,500	895,500	25.98%	15.38%	25.91%	18.10%	
	-10	9B-Flooring	DeGol Carpet	141,550	(34.770)	106,780	141,550	(34.770)	106,780	0.00%	0.00%	%00.0		
			Frederick Tile	142,898	(14,000)	128,898	136,973	(14,000)	122,973	4.33%	0.00%	4.82%		
			CB Flooring	161.000	(25.863)	135,137	155,000	(25,108)	129,892	3.87%	3.01%	4.04%	2.95%	
		9C-Wood floors	9C-Wood floors Miller Flooring		110.700	110.700		109.750	109,750		0.87%	0.87%		
			Weyer's Floor Service		112,922	112,922		104,834	104,834		7.72%	7.72%		
			Mastercare Flooring		118,421	118,421		109,864	109,864		7.79%	7.79%	5.46%	
		9E-Painting	Crown Inc.	131,700	3.037	134,737	87,967	2,294	90,261	49.72%	32.39%	49.27%		
			JA Argetakos	137.000	2,500	139,500	114.000	2.000	116.000	20.18%	25.00%	20.26%		
			Argos Construction	157,500	3.000	160,500	128,900	2.500	131,400	22.19%	20.00%	22.15%		
			Total Contracting	235,310		235,310	235,310		235,310	%00'0		0.00%	22.92%	
		9F-Tiling	Frederick Tile	130,400		130,400	127,100		127,100	2.60%		2.60%		
			David Allen	130,900		130,900	114,800		114,800	14.02%		14.02%	8.31%	
		13A-Sprinkler	Kennedy Fire Protection	194,000	1,500	195,500	176,000	1,500	177,500	10.23%	%00.0	10.14%		
			Brewer & Co.	228,000	5,000	233,000	228,000	5,000	233,000	%00'0	0.00%	%00'0		
			Capitol Sprinkler	245,000	2,250	247,250	245,000	2,250	247,250	0.00%	%00.0	0.00%		
			Fire MAK	253,500	2,500	256,000	216,890	2,000	218,890	16.88%	25.00%	16.95%		
			Judd Fire Protect	336,300	3,900	340,200	252,000	3.000	255,000	0.60%	30.00%	33.41%	12.10%	
		15A-	RH Lapp	4,539,000	28,500	4,567,500	4,499,000	28,500	4,527,500	0.89%	%00.0	0.88%	1.2	
		Mechanical	RW Warner	4,669,000	132,000	4,801,000	3,862,000	128,000	3,990,000	20.90%	3.13%	20.33%		
			MS Johnston	4,826,800	17,500	4,844,300	4,170,450	14,000	4,184,450	15.74%	25.00%	15.37%	12.33%	
		158-	H&H Well Drilling	787,000		787,000	762,000		762,000	3.28%		3.28%		
		Geothermal	Chesapeake Geosystems	862,000		862,000	835,000		835,000	3.23%		3.23%		
				873,661		873,661	857,219		857,219	1.92%		1.92%	2.81%	
		16A-Electrical		2,147,950	10,980	2,158,930	1,750,000	8,160	1,758,160	22.74%	34.56%	22.79%		
			Ellsworth Electric	2,171,500	18,500	2,190.000	1,871,500	16,000	1,887,500	16.03%	15.63%	16.03%		
				the second se										

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Economic Impact Study Analysis: Actual CIP Expenditures for the Reporting Period January 1, 2013 - December 31, 2013

Category of Spend	C	P Construction \$	% of \$	CIF	Maintenance \$	% of \$	CIP Total \$	% of \$
In State of Maryland*	\$	83,517,262.29	75.24%	\$	4,411,638.79	68.24%	\$ 87,928,901.08	74.85%
In A.A. County	\$	12,382,068.83	11.15%	\$	963,852.14	14.91%	\$ 13,345,920.97	11.369
Out of State	\$	15,103,819.66	13.61%	\$	1,089,613.40	16.85%	\$ 16,193,433.06	13.799
	\$	111,003,150.78	100.00%	\$	6,465,104.33	100.00%	\$ 117,468,255.11	100.00

Note: In State of Maryland purposefully excludes Anne Arundel County in order to avoid a duplicated Statewide figure. *Note*: Thus the actual/total in State of Maryland spend is \$95,899,331,12 and the in State percentage of spend is 86.21%.

The above analysis attempts to answer the question concerning capital project spends posed at the task force meeting on February 24. In order to arrive at the answer, I analyzed our actual Capital Improvement Program (CIP) funded cash expenditures for the reporting period of 1/1/13-12/31/13 to build a representative/prototypical 12 month surrogate accounting model of our CIP related expenditures. I then broke it down into the following three areas for your consideration:

In State of Maryland (but excluding Anne Arundel County) In Anne Arundel County Outside of the State of Maryland

I did so because I felt that it may provide a more beneficial lens into our CIP related expenditures compared to simply looking at In/Out of Maryland as a whole. Naturally, you can feel free to manipulate/aggregate the data as you see fit. So for example, if you wish to answer how much of the cash-flow landed in business located within Maryland as a whole, you would simply add up the first two categories to arrive at a figure of 86.21%.

I hope that my methodology makes sense and provides the task force with a worthwhile analysis.

Alex

Alex L. Szachnowicz, P.E. Chief Operating Officer Anne Arundel County Public Schools 2644 Riva Road Annapolis, MD 21401 (410) 222-5308 (Phone) (410) 222-5631 (Fax) ASzachnowicz@AACPS.org