# PROJECT MANUAL DOMESTIC WATER HEATER REPLACEMENTS AT CENTENNIAL & HAMMOND HIGH SCHOOLS BID #011.15.B3

# HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 Clarksville Pike Ellicott City, Maryland 21042

ISSUE DATE:	Monday, August 25, 2014		
SEALED BID FOR:	Domestic Water Heater Replacements at Centennial & Hammond High Schools		
BID NUMBER:	Bid #011.15.B3		
PRE-BID DATE:	Wednesday, September 3, 2014		
PRE-BID TIME:	9:00 A.M.		
PRE-BID LOCATION:	Centennial High School		
	4300 Centennial Lane		
	Ellicott City, MD 21042		
	410-313-2856		
<b>BID OPENING DATE:</b>	Friday, September 12, 2014		
BID OPENING TIME:	11:00 A.M.		
BUYER:	Mr. Joe Veslany phone: 410-313-6723 fax: 410-313-6789 email: <u>jveslany@hcpss.org</u>		

Engineer/Architect: Green Building Energy Engineers, LLC 8029 Somerville Lane Elkridge, MD 21075 (410) 799-1080

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#### **SECTION 00020**

#### NOTICE TO BIDDERS - INVITATION TO BID #011.15.B3

#### DOMESTIC WATER HEATER REPLACEMENTS AT CENTENNIAL & HAMMOND HIGH SCHOOLS

#### THE HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 CLARKSVILLE PIKE ELLICOTT CITY, MD 21042

The Howard County Public School System requests your bid for Domestic Water Heater replacements at Centennial and Hammond High Schools as specified in the bid documents. The bid also includes Add Alternates for each location for Kitchen Make-up Air Unit replacements.

Bid documents may be obtained on **Monday**, **August 25**, **2014** at the Howard County Department of Education, Purchasing Office website <u>http://www.hcpss.org/about-us/purchasing/current-bids/</u>. It is the responsibility of the bidder to print documents/drawings to scale.

A Prebid Meeting will be held at, Centennial High School, 4300 Centennial Lane, Ellicott City, MD 21042 on Wednesday, September 3, 2014 at 9:00 A.M. The Engineer, HCPSS Project Manager and school system staff will explain the scope of the project and answer questions about the bidding documents that will assist in the preparations of bids. Attendance is strongly recommended and will assist the Owner in evaluating bids to determine if the bid can be considered responsive and/or responsible.

It is the intent of the School System to provide a site visit to Hammond High School immediately following the pre-bid at Centennial High School.

Bids shall be submitted in a sealed envelope clearly marked "BID", "Domestic Water Heater Replacements, Centennial & Hammond High Schools", "Bid #011.15.B3", to the Howard County Department of Education, Purchasing Office, 10910 Clarksville Pike, Ellicott City, Maryland 21042 no later than Friday, September 12, 2014 at 11:00 A.M. Late bids will not be accepted. It is the bidder's responsibility to insure that bids are delivered to the Purchasing Office prior to the scheduled opening time.

The Board reserves the right to waive any informalities in, or to reject any or all bids.

Howard County Public School System shall not be responsible for errors or omissions made by the printer or advertising houses which prepare bid documents, addenda, or advertising services.

Instructions pertaining to the Bid Bond, Surety Checks, Performance and Materials Payment Bond requirements are contained in the bid documents.

Certified Minority Business Enterprises are encouraged to respond to this solicitation notice.

The contractor or supplier who provides materials, supplies, equipment and/or services for this project shall attempt to achieve the specific overall MBE goal of 29% percent established for this project with sub goals of 0% from a certified African American business and 0% from a certified Asian American business.

The bidder or offeror is required to submit with its bid or proposal a completed Attachment A - Certified MBE Utilization and Fair Solicitation Affidavit and Attachment B - MBE Participation Schedule, as described in the solicitation documents. Each bid or offer submitted, including a submittal from a certified MBE in response to this solicitation, shall be accompanied by a completed Attachment A - Certified MBE Utilization and Fair Solicitation Affidavit and a completed Attachment B - MBE Participation Schedule. These two attachments must be accurate and consistent with each other. Attachment A and Attachment B shall be submitted with the sealed bid price at the place, date, and time specified in the solicitation document. The bidder or offeror must check one of the three boxes on Attachment A, which relates to the level of MBE participation achieved for the project.

The contractor or supplier who provides materials, supplies, equipment and/or services for this project shall attempt to achieve the specific overall MBE goal of 29% percent established for this project with sub goals of 0% from a certified African American business and 0% from a certified Asian American business. All prime contractors, including certified MBE firms, when submitting bids or proposals as general or prime contractors, are required to attempt to achieve this goal from certified MBE firms. Bidders are encouraged to review Section 00730 of the bidding documents for the full Minority Business Enterprise Procedures.

The bidder must check one of the three boxes on Attachment A, which relates to the level of MBE participation achieved for the project. The bidder's signature indicates that in the event that they did not meet the MBE goal or sub-goals, if applicable, that: 1) They are therefore requesting a waiver, and 2) Documentation of their good faith efforts will be provided to the school system staff within 10 days of being notified that they are the apparent low bidder.

Joe Veslany Buyer

# **■**AIA<sup>®</sup> Document A701<sup>™</sup> – 1997

# Instructions to Bidders

for the following PROJECT: (Name and location or address):

THE OWNER: (Name and address):

THE ARCHITECT: (Name and address):

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ADDITIONS AND DELETIONS: The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

#### ARTICLE 1 DEFINITIONS

§ 1.1 Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Advertisement or Invitation to Bid, Instructions to Bidders, Supplementary Instructions to Bidders, the bid form, and other sample bidding and contract forms. The proposed Contract Documents consist of the form of Agreement between the Owner and Contractor, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications and all Addenda issued prior to execution of the Contract.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, AIA Document A232-2009 Edition and as modified by Howard county Public School System or other Contract Documents as applicable to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect prior to the execution of the Contract which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base, to which Work may be added or from which Work may be deleted for sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from the amount of the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment or services or a portion of the Work as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment or labor for a portion of the Work.

#### ARTICLE 2 BIDDER'S REPRESENTATIONS

§ 2.1 The Bidder by making a Bid represents that:

§ 2.1.1 The Bidder has read and understands the Bidding Documents or Contract Documents, to the extent that such documentation relates to the Work for which the Bid is submitted, and for other portions of the Project, if any, being bid concurrently or presently under construction.

§ 2.1.2 The Bid is made in compliance with the Bidding Documents.

§ 2.1.3 The Bidder has visited the site, become familiar with local conditions under which the Work is to be performed and has correlated the Bidder's personal observations with the requirements of the proposed Contract Documents.

§ 2.1.4 The Bid is based upon the materials, equipment and systems required by the Bidding Documents without exception.

#### ARTICLE 3 BIDDING DOCUMENTS

#### § 3.1 COPIES

§ 3.1.1 Bidders may obtain complete sets of the Bidding Documents from the issuing office designated in the Advertisement or Invitation to Bid in the number and for the deposit sum, if any, stated therein. The deposit will be refunded to Bidders who submit a bona fide Bid and return the Bidding Documents in good condition within ten days after receipt of Bids. The cost of replacement of missing or damaged documents will be deducted from the deposit. A Bidder receiving a Contract award may retain the Bidding Documents and the Bidder's deposit will be refunded.

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§ 3.1.2 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the Advertisement or Invitation to Bid, or in supplementary instructions to bidders.

§ 3.1.3 Bidders shall use complete sets of Bidding Documents in preparing Bids; neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

§ 3.1.4 The Owner and Architect may make copies of the Bidding Documents available on the above terms for the purpose of obtaining Bids on the Work. No license or grant of use is conferred by issuance of copies of the Bidding Documents.

#### § 3.2 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

§ 3.2.1 The Bidder shall carefully study and compare the Bidding Documents with each other, and with other work being bid concurrently or presently under construction to the extent that it relates to the Work for which the Bid is submitted, shall examine the site and local conditions, and shall at once report to the Architect errors, inconsistencies or ambiguities discovered.

§ 3.2.2 Bidders and Sub-bidders requiring clarification or interpretation of the Bidding Documents shall make a written request which shall reach the Construction Manager and Architect at least seven business days prior to the date for receipt of Bids.

§ 3.2.3 Interpretations, corrections and changes of the Bidding Documents will be made by Addendum. Interpretations, corrections and changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon them.

#### § 3.3 SUBSTITUTIONS

#### (Paragraph deleted)

**§3.3.1**.Bids shall be based upon the materials, systems and equipment required by the bidding documents without exception. Proposed substitute products or manufacturers shall be submitted in accordance with the following provisions:

a. Not substitutions will be considered prior to receipt of bids. The Contract award will be made solely on the basis of Base bid, Alternate Bids with regard to proposed substitutions and deducts when requested.

b. Bidders may propose substitutions for the materials, systems and equipment specified or whom by listing them in the space provided on the Form of Proposal, along with any stipulated cost adjustment (add. deduct or no change) in the Base Bid or Alternate bids. Proposed substitutions may be accepted with the award of the contract or later by the Owner.

c. Provide all necessary backup data for proposed substitutions at time of bid for review by Owner.

d. The Architect will evaluate all substitutions based on compliance with the environmental goals stated in the specifications. All proposed substitutions shall document and demonstrate meeting or exceeding LEED certification requirements through product data, MSDS sheets and other supporting literature that highlight conformance. Any substitution that does not have this information highlighted will be rejected.

§ 3.3.2 If the Architect approves a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner.

§ 3.3.3 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

#### (Paragraph deleted)

#### § 3.4 ADDENDA

§ 3.4.1 Addenda will be transmitted to all who are known by the issuing office to have received a complete set of Bidding Documents.

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§ 3.4.2 Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.

§ 3.4.3 Addenda will be issued no later than four days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Each Bidder shall ascertain prior to submitting a Bid that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

#### ARTICLE 4 BIDDING PROCEDURES § 4.1 PREPARATION OF BIDS

§ 4.1.1 Bids shall be submitted on the forms included with the Bidding Documents. Submit Form of Proposal (Bids) in triplicate.

§ 4.1.2 All blanks on the bid form shall be legibly executed in a non-erasable medium. If blanks do not apply insert " O " in spaces.

§ 4.1.3 Sums shall be expressed in both words and figures. In case of discrepancy, the amount written in words shall govern.

§ 4.1.4 All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change."

§ 4.1.5 Each copy of the Bid shall state the legal name of the Bidder and the nature of legal form of the Bidder. The Bidder shall provide evidence of legal authority to perform within the jurisdiction of the Work. Each copy shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further give the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached certifying the agent's authority to bind the Bidder.

#### (Paragraphs deleted)

§4.1.6 All addenda shall be acknowledged on the Form of Proposal

#### § 4.2 BID SECURITY

§ 4.2.1 Each Bid shall be accompanied by a bid security in the form and amount required if so stipulated in the Instructions to Bidders. The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and will, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty.

- **4.2.2** Bonds shall be written by a bonding company that must be licensed with Maryland Insurance Administration to do business in the state of Maryland and otherwise acceptable to the Howard County Public School System. The Contractor shall use Bond Form provided by the Owner AIA 310 Bid Bond, in order to satisfy the Bond requirements referenced in this Article and the attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of the power of attorney in an amount not less than required.
- 4.2.3 The bonding company furnishing the Bid Bond shall attach to the Bid bond, or deliver to the Owner Purchasing Office within 24 hrs of the bid opening, the following statement, signed by an authorized representative for the bonding company: As surety for (Name of Contractor), (Name of Bonding Company), hereby agrees to furnish the 100% Performance, Labor and Materials Bonds, as required by the specifications for the (Name of Project), on behalf of the Contractor, in the event that such firm be the successful bidder for this project. Failure to provide this statement will be cause to reject submitted bid.

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(Paragraphs deleted)

§ 4.2.4 Bid Bond shall be in the amount of 5% of the Base Bid.

§ 4.2.5 The apparent low bidder, upon notification, shall provide to the Owner/ Purchasing Office within 24 hours three (3) references of successfully completed projects from General Contractors and/or Construction Managers and/or Owners. Failure to provide these references will be cause to reject the submitted bid.

§ 4.2.6 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until either

- (a) the Contract has been executed and bonds, if required, have been furnished, or
- (b) the specified time has elapsed so that Bids may be withdrawn or
- (c) all Bids have been rejected.

§ 4.2.7 To protect the public interest the Owner will request a D & B (Dun & Bradstreet ®) report on the apparent low bidder. D & B rating less than A shall be cause for rejection of bid by Owner.

§ 4.2.8 Owner reserves the right to request from apparent low bidder financial statements for the firm for up to 3 fiscal years.

#### § 4.3 SUBMISSION OF BIDS

§ 4.3.1 All copies of the Bid, the bid security, if any, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the Bids and shall be identified with the Project name, the Bidder's name and address and, if applicable, the designated portion of the Work for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof.

§ 4.3.2 Bids shall be deposited at the designated location prior to the time and date for receipt of Bids. Bids received after the time and date for receipt of Bids will be returned unopened.

§ 4.3.3 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.4 Oral, telephonic, telegraphic, facsimile or other electronically transmitted bids will not be considered.

#### § 4.4 MODIFICATION OR WITHDRAWAL OF BID

§ 4.4.1 A Bid may not be modified, withdrawn or canceled by the Bidder during the stipulated time period following the time and date designated for the receipt of Bids, and each Bidder so agrees in submitting a Bid.

§ 4.4.2 Prior to the time and date designated for receipt of Bids, a Bid submitted may be modified or withdrawn by notice to the party receiving Bids at the place designated for receipt of Bids. Such notice shall be in writing over the signature of the Bidder. Written confirmation over the signature of the Bidder shall be received, and date- and time-stamped by the receiving party on or before the date and time set for receipt of Bids. A change shall be so worded as not to reveal the amount of the original Bid.

§ 4.4.3 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids provided that they are then fully in conformance with these Instructions to Bidders.

§ 4.4.4 Bid security, if required, shall be in an amount sufficient for the Bid as resubmitted.

#### ARTICLE 5 CONSIDERATION OF BIDS

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#### § 5.1 OPENING OF BIDS

At the discretion of the Owner, if stipulated in the Advertisement or Invitation to Bid, the properly identified Bids received on time will be publicly opened and will be read aloud. An abstract of the Bids may be made available to Bidders.

#### § 5.2 REJECTION OF BIDS

The Owner shall have the right to reject any or all Bids. A Bid not accompanied by a required bid security or by other data required by the Bidding Documents, or a Bid which is in any way incomplete or irregular is subject to rejection.

#### § 5.3 ACCEPTANCE OF BID (AWARD)

§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest qualified Bidder provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid, Alternate Bids, and proposed Substitutions which, in the Owner's judgment, is in the Owner's own best interests.

§ 5.3.2 The Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the low Bidder on the basis of the sum of the Base Bid and Alternates accepted.

#### ARTICLE 6 POST-BID INFORMATION

#### (Paragraphs deleted)

#### § 6.3 SUBMITTALS

§ 6.3.1 The Bidder shall, as soon as practicable or as stipulated in the Bidding Documents, after notification of selection for the award of a Contract, furnish to the Owner through the Architect in writing: (Paragraphs deleted)

.1 names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

§ 6.3.2 Prior to the execution of the Contract, the Architect will notify the Bidder in writing if either the Owner or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, (1) withdraw the Bid or (2) submit an acceptable substitute person or entity with an adjustment in the Base Bid or Alternate Bid to cover the difference in cost occasioned by such substitution. The Owner may accept the adjusted bid price or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

#### (Paragraphs deleted)

§ 6.33 Persons and entities proposed by the Bidder and to whom the Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and Architect.

#### ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND

#### (Paragraph deleted)

#### §7.1 PERFORMANCE BOND AND PAYMENT BOND

§ 7.1.1 The Contractor shall furnish a Performance Bond and Labor and Materials Payment Bond covering the faithful performance of the Contract and the payment of all obligations arising thereunder and complying with the requirements of Maryland Law. Both bonds shall be in the amount of one hundred percent (100%) of the Contract amount and shall name the Howard County Board of Education as Obligee.

#### (Paragraphs deleted)

§ 7.1.2 Bonds shall be written by a bonding company that must be licensed with MD Insurance Administration to do business in the State of Maryland and otherwise acceptable to the Howard County Public School System. The Contractor shall use Bond Forms provided by the Owner AIA Document A312 - 2010 Performance Bond and AIA

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DocumentA312 - 2010 Labor and Material Payment Bond, in order to satisfy the Bond requirements referenced in this Article.

§ 7.1.3 Owner reserves the right to request from Contractor financial statements for the firm for up to prior 3 fiscal vears.

§ 7.1.4 To protect the public interest the Owner will request a D & B report on the Contractor. Should the D & B rating fall below the awarded rating, Contractor shall advise Owner of his corrective measures.

**§ 7.1.5** Firms issuing said bonds must be licensed to write bonds in the State of Maryland. The Contractor shall pay the premiums for required bonds. Obtainage of the required bonds by Contractor shall be a condition precedent to effectuation of the Contract between Owner and Contractor. If additional work is authorized, the amounts of the bonds shall be increased to cover the value of the increased Contract sum. All bonds shall conform to the requirements of the Maryland Little Miller Act. All bonds shall be subject to Owner's approval.

§ 7.1.6 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall permit a copy to be made.

§ 7.1.7 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

#### § 7.2 TIME OF DELIVERY AND FORM OF BONDS

§ 7.2.1 The Bidder shall deliver the required bonds to the Owner with the executed contract and dated with the date of contract. If the Work is to be commenced prior thereto in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this Section 7.2.1.

§ 7.2.2 Unless otherwise provided, the bonds shall be written on AIA Document A312-2010, Performance Bond and Labor and Material Payment Bond. Both bonds shall be written in the amount of the Contract Sum.

#### (Paragraph deleted)

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of the power of attorney effective as of the date of execution of the contract..

#### **ARTICLE 8** FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

Unless otherwise required in the Bidding Documents, the Agreement for the Work will be written on AIA Document A101-2007 edition as modified by Howard County Public School System, Standard Form of Agreement Between Owner and Contractor Where the Basis of Payment Is a Stipulated Sum.

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#### SECTION 00300 FORM OF PROPOSAL DOMESTIC WATER HEATER REPLACEMENTS AT CENTENNIAL AND HAMMOND HIGH SCHOOLS BID #011.15.B3

Date:	Owner:	Board of Education of Howard County Maryland 10910 Clarksville Pike Ellicott City, MD 21042 Tel (410) 313-6723 Fax (410) 313-6789	
Contractor:	Engineer/Architect*:	Green Building Energy Engineers, LLC 8029 Sommerville Lane Elkridge, MD 21075 Tel (410) 799-1080	

The undersigned, having carefully examined the Bid Announcement and Bid Documents proposes to furnish all specified materials and specified equipment in strict accordance with the aforesaid documents for the Lump Sums as follows:

#### BASE BID

1. Complete installed cost for the Domestic Water Heater replacement at Centennial High School and all appurtenances, as indicated on the Drawings, Specifications and addenda.

TOTAL BASE BID – Domestic Water Heater Replacement			
Centennial High School	\$		
Please indicate below your Total Base Bid a	nount in words:		
	and	/100 Dollars.	
ADD - ALTERNATE No. 1- Kitchen Make-up price for all work associated with the replacem High School as shown on Drawings M-1 and E	ent of the kitchen make-up air unit a	•	
Centennial High School	\$		
Please indicate below your Total Base Bid a	mount in words.		
	nount in words.		

2. Complete installed cost for the Domestic Water Heater replacement at Hammond High School and all appurtenances, as indicated on the Drawings, Specifications and addenda.

TOTAL BASE BID – Domestic Water Heater Replace	cement			
Hammond High School	\$			
Please indicate below your Total Base Bid amount in	words:			
	and /100 Dollars.			
ADD - ALTERNATE No. 1- Kitchen Make-up Air Un price for all work associated with the replacement of the School as shown on Drawings M-1 and E-3 and as sp	e kitchen make-up air unit at Hammond High			
Hammond High School	\$			
Please indicate below your Total Base Bid amount in words:				
	and /100 Dollars			

NOTE: Bid Form shall reflect bids for the project as shown in the Contract Specifications and addenda. Substitutions shall be included in the section "Proposed Substitutions."

\* Note: References to Architect will also include Engineer in all bid documents.

\* Note: It is the intent of the HCPSS to award each project individually.

#### EQUIPMENT AND MANUFACTURERS

All bidders on the project are hereby required to name at time of bid the manufacturer name to be provided as part of their bid in accordance with the contract documents.

Domestic Water Heater	Manufacturer:
Kitchen Make Up Air Unit	Manufacturer:
Unit Heater	Manufacturer:
LED Lighting Fixture	Manufacturer:

#### PROPOSED SUBSTITUTIONS

Proposed substitutions shall be submitted in accordance with Instructions to Bidders, see Section 00100 Instructions to Bidders, Article 3, Bidding Documents, 3.3 Substitutions. Bids will be considered on systems, processes, or products of manufacturers other than those cited if accompanied by detailed technical specifications for each item, catalogs, test reports, brochures, and other descriptive literature and supporting data, sufficient in detail to permit evaluation of the proposed substitution without further reference.

Proposed Substitutions	Price Change
	<u> </u>
	\$
	\$
	\$

**<u>SUBCONTRACTORS</u>**: Bidders are hereby required to name the subcontractors as part of their bid package.

Name of Company

Type of Work

#### **REFERENCES**

Bidders are hereby required to list three references for whom similar work has previously been performed within the last three years:

Name:
Address of Site:
Nature of Job:
Person to contact:
Telephone:
Name:
Address of Site:
Nature of Job:
Person to contact:
Telephone:
Name:
Address of Site:
Nature of Job:
Person to contact:
Telephone:

#### <u>SURVEY</u>

For information purposes, please advise by what methods you were informed of this solicitation. Your response would be very much appreciated.

Newspaper: Name of Newspaper	Contractor:
Ad House: Name of Ad House	Other:

#### **COMPANY INFORMATION**

Name of company		yea	rs in business	_
Street Address				-
City	State		Zip	-
Telephone #	Fax #			
CONTRACT ADMINISTRAT	<u>DR</u>			
Name		Title		
Address		Phone		
		Fax		
Cell phone		e-mail		
ADDENDA				
Receipt of the following adde	nda is acknowledged:			
Addendum NoDate	d	Addendum No	Dated	
Addendum NoDate	d	Addendum No	Dated	
Addendum NoDate	d	Addendum No	Dated	

#### WARRANTY TO THE LUMP SUM

The undersigned affirms that the above base bid and alternates represents the entire cost of the project in accordance with the bid documents and that no claim will be made on account of any increase in wage, scales, material prices, taxes, fasts, cost indexes or any other rate affecting the construction industry and/or this project.

If the undersigned received written notice of the acceptance, at his designated address, within sixty (60) days after bid opening (or later if bid has not been withdrawn), the undersigned agrees to execute and deliver a contract and bonds in accordance with the bid as accepted, within seven (7) days after receiving notice, or forfeit the amount of the bid bond.

#### **AFFIDAVIT**

*Special Instructions*: An authorized representative of the bidder shall complete the following affidavit in accordance with these bid documents and insert answer to paragraphs 1 and 3.

Statutory Affidavit and Non-Collusion Certification

 I, \_\_\_\_\_\_\_\_\_\_, being duly sworn, depose and state:

 1. I am the \_\_\_\_\_\_\_\_ (officer) and duly authorized

 Representative of the firm named
 whose address

:-	and that I	possess the authorit	v to make this
IS	 anu mat i	possess me aumoni	y to make this

#### affidavit and certification on behalf of myself and the firm for which I am acting.

- 2. Except as described in Paragraph 3 below, neither I, nor to the best of my knowledge, the above firm, nor any of its officers, directors, or partners, employees, agents, or employees of agents who are directly involved in obtaining or performing contracts with any public bodies has:
  - (a.) Been convicted of bribery, attempted bribery, or conspiracy to bribe, under the laws of any state of the federal government;
  - (b.) Been convicted under the laws of the state, another state, or the United States of: a criminal offense incident to obtaining, attempting to obtain, or performing a public or private contract; or fraud, embezzlement, theft, forgery, falsification or destruction of records, or receiving stolen property;
  - (c.) Been convicted of a criminal violation of an antitrust statute of the State of Maryland, another state, or the United States;
  - (d.) Been convicted of a violation of the Racketeer Influenced and Corrupt Organization Act, or the Mail Fraud Act, for acts in connection with the submission of bids or proposals for a public or private contract;
  - (e.) Been convicted of any felony offenses connected with obtaining, holding, or maintaining a minority business enterprise certification, as prohibited by Section 14-308 of the State Finance and Procurement Article;
  - (f.) Been convicted of conspiracy to commit any act or omission that would constitute grounds for conviction under any of the laws or statutes described in Paragraph (a) through (e) above; or
  - (g.) Been found civilly liable under an antitrust statute of this State, another state, or the United States for acts or omissions in connection with the submission of bids or proposals for a public or private contract.
- 3. The only conviction, plea, or admission by any officer, director, partner, or employee of this firm to involvement in any of the conduct described in Paragraph 2 above is as follows:

*If* none, write "None" below. If involvement, list the date, count, or charge, official or *administrative body, the individuals, their position with the firm and the sentence or disposition* of *the charge.* 

- 4. I affirm that this firm will not knowingly enter into a contract with a public body under which a person or business debarred or suspended under Maryland State Finance and Procurement Title 16, subtitle 3, <u>Annotated Code of Maryland</u>, as amended, will provide, directly or indirectly, supplies, services, architectural services, construction-related services, leases of real property, or construction.
- 5. I affirm that this proposal or bid to the Board of Education of Howard County Maryland is genuine and not collusive or a sham; that said bidder has not colluded, conspired, connived and agreed, directly or indirectly, with any bidder or person to put in a sham bid or to refrain from bidding and is not in any manner, directly or indirectly, sought by agreement of collusion or communication or conference, with any person to fix the bid prices of the affidavit or any other bidder, or to fix any overhead, profit or cost element of said bid price, or that if any bidder, or to secure an advantage against the Board of Education of Howard County Maryland or any other person interested in the proposed contract; and that all statements in the proposal or bid are true. I acknowledge that, if the representations set forth in this affidavit are not true and correct, the Board of Education of Howard County Maryland may terminate any contract awarded and take any other appropriate action.
- 6. I affirm that this firm will not knowingly employ an individual to work at a school if the individual is a Registered Sexual Offender, pursuant to section 11-722 (C) of the Criminal Procedure Article of the Annotate Code of Maryland. A firm or person who violates this section is guilty of a misdemeanor and on conviction is subject to imprisonment not exceeding 5 years or a fine not exceeding \$5,000 or both.

The statements contained in this affidavit shall be incorporated into the awarded contract as material provisions and shall be effective throughout the life of the contract. The firm has a continuing obligation through the life of the contract to submit a revised affidavit should the firm discover information, or events occur, which render the contents of this affidavit erroneous or incomplete or which would result in the firm providing a different response. The firm's failure to submit a revised affidavit within three (3) working days of either its awareness of any error, change of circumstances, incompleteness, etc., or request by the owner shall constitute breach of contract. Upon submission of a revised affidavit, the owner has the right to take such actions as may be necessary, in the judgment of the owner, to maintain and enforce the provisions of the affidavit, including termination of the contract.

**I DO SOLEMINLY DECLARE AND AFFIRM** under the penalties of penalties that the contents of these affidavits (Statutory and Non-Collusion) are true and correct, that I am executing this Affidavit in compliance with Section 16-311 of the State Finance and Procurement Article, <u>Annotated Code of Maryland</u>, and the Non-Collusion Certification in compliance with requirements of the Board of Education of Howard County Maryland, and that I am executing and submitting this Form of Proposal on behalf of and <u>with full authority</u> by the bidder named below.

(Signature of Bidder)		(Date)		
(Print Name of Bidder)		(Title of Bidder	·)	
SUBSCRIBED AND SWORN to before me on this		_ day of		_, 2014.
NOTARY PUBLIC				
Name		Seal:		
My Commission Expires				
(Legal Name of Company)				
(Address)				
(City)	(State)		(Zip)	
(Telephone)	(Fax)			
(E-mail address)				
Contractor's License Number #				
We are/I am licensed to do business in the ( ) Corporation ( ) Partnership		ryland as a: ()Individual	I () Other	

Attachment A (page 1 of 2)

# **CERTIFIED MINORITY BUSINESS ENTERPRISE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT**

*NOTE: You must include this document with your bid or offer*. If you do not submit the form with your bid or offer, the procurement officer shall deem your bid non-responsive or your offer not reasonably susceptible of being selected for award.

\* \* \* \* \* \* \* \* \* \* \* \* \* \*

#### Part I.

I acknowledge the:

- Overall certified MBE subcontract participation goal of 29 %. and
- The subgoals, if applicable, of:
  - 0% for certified African American-owned businesses and
  - 0 % for certified Asian American-owned businesses.

I have made a good-faith effort to achieve this goal. If awarded the contract, I will continue to attempt to increase MBE participation during the project.

## Part II.

Check ONE Box

## NOTE: FAILURE TO CHECK ONE OF BOXES 1, 2, or 3 BELOW WILL RENDER A BID NON-RESPONSIVE OR AN OFFER NOT REASONABLY SUSCEPTIBLE OF BEING SELECTED FOR AWARD

# NOTE: INCONSISTENCY BETWEEN THE ASSERTIONS ON THIS FORM AND THE INFORMATION PROVIDED ON THE *MBE PARTICIPATION SCHEDULE* (ATTACHMENT B) MAY RENDER A BID NON-RESPONSIVE OR AN OFFER NOT REASONABLY SUSCEPTIBLE OF BEING SELECTED FOR AWARD

1 I have met the overall MBE goal and MBE subgoals for this project. I submit with this Affidavit [Attachment A] the *MBE Participation Schedule* [Attachment B], which details how I will reach that goal.

or

2 After having made a good-faith effort to achieve the overall MBE goal and MBE subgoals for this project, I can achieve partial success only. I submit with this Affidavit [Attachment A] the *MBE Participation Schedule* [Attachment B], which details the MBE participation I have achieved.

I request a partial waiver as follows:

- Waiver of overall MBE subcontract participation goal: \_\_\_\_\_%
- Waiver of MBE subcontract participation subgoals, if applicable:
  - \_\_\_\_\_% for certified African American-owned businesses and
  - \_\_\_\_\_% for certified Asian American-owned businesses.

Within 10 days of being informed that I am the apparent awardee, I will submit *MBE Waiver Documentation* [Attachment F] (with supporting documentation).

#### Attachment A (page 2 of 2) or

3 After having made a good faith effort to achieve the overall MBE goal and MBE subgoals for this project, I am unable to achieve any portion of the goal or subgoals. I submit with this Affidavit [Attachment A] the *MBE Participation Schedule* [Attachment B].

I request a full waiver.

Within 10 days of being informed that I am the apparent awardee, I will submit *MBE Waiver Documentation* [Attachment F] (with supporting documentation).

#### Part III.

I understand that if I am the apparent awardee or conditional awardee, I must submit **within 10 working days** after receiving notice of the potential award or within 10 days after the date of conditional award – whichever is earlier – the:

- *Outreach Efforts Compliance Statement* (Attachment C)
- Subcontractor Project Participation Statement (Attachment D)
- *Minority Subcontractors Unavailability Certificate* (Attachment E) (if applicable)
- Any other documentation the Procurement Officer requires to ascertain my responsibility in connection with the MBE participation goal and subgoals

I acknowledge that if I fail to timely return complete documents, the Procurement Officer may determine that I am not responsible and therefore not eligible for contract award. If the contract has been awarded, the award is voidable.

I acknowledge that the MBE subcontractors/suppliers listed in the *MBE Participation Schedule* and any additional MBE subcontractor/suppliers identified in the *Subcontractor Project Participation Statement* will be used to accomplish the percentage of MBE participation that I intend to achieve.

In the solicitation of subcontract quotations or offers, MBE subcontractors were provided the same information and amount of time to respond as were non-MBE subcontractors.

The solicitation process was conducted in such a manner so as to not place MBE subcontractors at a competitive disadvantage to non-MBE subcontractors.

## I solemnly affirm under the penalties of perjury that this Affidavit is true to the best of my knowledge, information, and belief.

Bidder/Offeror Name

Affiant Signature

Address

Printed Name & Title

Address (continued)

Date

# Attachment B MBE PARTICIPATION SCHEDULE

This document must be included with the bid or offer. If the bidder or offeror fails to submit this form with the bid or offer as required, the procurement officer shall deem the bid non-responsive or shall determine that the offer is not reasonably susceptible of being selected for award.

1. Prime Contractor's Name	2. Prime Contractor's Address and Telephone Number		
3. Project/School Name	4. Project/School Location		
5. LEA and PSC No.			
	6. Base Bid Amount \$		
7a. Minority Firm Name	Minority Firm Address		
Minority Firm Telephone Number	Minority Group Type		
Minority Firm Fax Number	<ul> <li>(African American)</li> <li>(Asian)</li> <li>(Asian)</li> <li>(Hispanic)</li> <li>(American Indian)</li> <li>(Disabled)</li> </ul>		
MDOT Certification Number			
Work to be Performed and Subcontract Dollar Amount	Percent of Total Contract		
7b. Minority Firm Name	Minority Firm Address		
Minority Firm Telephone Number	Minority Group Type		
	□ (African American ) □ (Women )		
Minority Firm Fax Number	Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       Image: Constraint of the system         Image: Constraint of the system       Image: Constraint of the system       I		
MDOT Certification Number			
Work to be Performed and Subcontract Dollar Amount	Percent of Total Contract		
7c. Minority Firm Name	Minority Firm Address		
Minority Firm Telephone Number	Minority Group Type		
	□ (African American ) □ (Women )		
Minority Firm Fax Number	(Asian)     (Hispanic)       (American Indian)     (Disabled)		
MDOT Certification Number			
Work to be Performed and Subcontract Dollar Amount	Percent of Total Contract		
8. MBE Total Dollar Amount	9. Total MBE Percent of Entire Contract		
10. Form Prepared by: (Name):	11. Reviewed and Accepted by Board of Education MBE Liaison		
Signature:	Name		
Title:	Title		
Date:	Date		
Total MBE Participation:	% \$		
Total African-American MBE Participation:	_% \$		
Total Asian-American MBE Participation: Total Other Participation:	% \$ % \$		

# **▲IA** Document A310<sup>™</sup> – 2010

# **Bid Bond**

#### **CONTRACTOR:**

(Name, legal status and address)

(Row deleted)

As Principal, hereinafter called the Principal, and a corporation duly organized under the laws of the State of as Surety, hereinafter called the Surety, are held and firmly bound unto

(Paragraphs deleted) As Obligee, hereinafter called the Obligee, in the sum of Dollars (\$ to be made, the said Principal and the said Surety, bind ourselves, or heirs, executors, administrators, successors and assigns jointly and severally firmly by these presents.

**OWNER** 

Init.

1

Howard County Public School System 10910 Clarksville Pike Ellicott City, MD, 21043

WHEREAS the Principal has submitted a bid for

**PROJECT:** (Name, location or address, and Project number, if any)

#### ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

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NOW, Therefor, if the Obligge shall accept the bid of Principal and the Principal shall enter into a Contract with the Obligee in accordance with the term of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to Obligee the difference not to exceed the penalty thereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. (Paragraphs deleted)

Signed and sealed this day of ,

(Contractor as Principal)

(Seal)

(Title)

(Surety)

(Seal)

(Witness)

(Witness)

(Title)

I

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Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

**AGREEMENT** made as of the day of (In words, indicate day, month and year)

in the year

**BETWEEN** the Owner: (Name, address and other information)

Board of Education of Howard County 10910 Clarksville Pike Ellicott City, MD 21042

and the Contractor: (Name, address and other information)

For the following Project: (Name, location and detailed description)

The Architect: (Name, address and other information)

The Owner and Contractor agree as follows.

Init. 1

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#### ADDITIONS AND DELETIONS:

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This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

AIA Document A201™-2007, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

#### TABLE OF ARTICLES

- 1 THE CONTRACT DOCUMENTS
- 2 THE WORK OF THIS CONTRACT
- 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
- CONTRACT SUM 4
- 5 PAYMENTS
- 6 DISPUTE RESOLUTION
- 7 **TERMINATION OR SUSPENSION**
- 8 **MISCELLANEOUS PROVISIONS**
- 9 **ENUMERATION OF CONTRACT DOCUMENTS**
- 10 **INSURANCE AND BONDS**

#### ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

#### ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

Contract Package:

Alternate No .:

#### ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be the date of this Agreement unless a different date is stated below or provision is made for the date to be fixed in a notice to proceed issued by the Owner. (Paragraphs deleted)

§ 3.2 The Contract Time shall be measured from the date of commencement, that shown on the Progress Schedule.

§ 3.3 The Contractor shall achieve Substantial Completion of the entire Work not later than (Paragraphs deleted)

fully developed Progress Schedule issued by Architect/Owner, and hereby fully incorporated into this Agreement, contains

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Portion of Work

Substantial Completion Date

, subject to adjustments of this Contract Time as provided in the Contract Documents. (Paragraph deleted)

. Liquidated Damages in the sum of one thousand (\$1000.00) for each calendar day shall be assessed for any delays in achieving Substantial Completion, except as noted in Article 8 of the General Conditions of the Contract for Construction. "Substantial Completion" as defined in Article 9.8 of the General Conditions of the Contract for Construction. In addition to Liquidated Damages for delay, as provided above, the Owner shall be entitled to such other damages for breach of contract as more fully provided in the General Conditions for Contract for Construction.

#### CONTRACT SUM ARTICLE 4

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract including Alternates and Substitutions the Contract Sum shall be:

\$	), subject
to additions and deductions as provided in the Contract Documents.	

§ 4.2 The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:

Alternate Numbers:

Substitutions:

(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)

§ 4.3 Unit prices, if any:

(Identify and state the unit price; state quantity limitations, if any, to which the unit price will be applicable.) (Row deleted)

Item

As listed in the Form of Proposal;

#### (Table deleted)

Init.

1

(Paragraphs deleted) **ARTICLE 5** PAYMENTS § 5.1 PROGRESS PAYMENTS

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

Contractor shall submit to the Architect on the last day of each month a draft of a Standard Monthly Contractors Requisition for Payment, on AIA Document G702 - 1992 and AIA Document G703 - 1992

(Paragraphs deleted)

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

- Take that portion of the Contract Sum properly allocable to completed Work as determined by .1 multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of ten percent ( 10 % )
- .2 Portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage of ten percent ( 10%);

§ 5.1.7 (Paragraphs deleted) Deleted

§ 5.1.8 Reduction or limitation of retainage, if any, shall be as follows: As described in the General Conditions for the Contract of Construction.

#### § 5.1.9 Deleted

#### § 5.2 FINAL PAYMENT

§ 5.2.11 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor in accordance with Paragraph 9.10 of the General Conditions for Contract.

§ 5.2.2 Deleted

ARTICLE 6 DISPUTE RESOLUTION

\$ 6.1 (Paragraphs deleted) As specified in Contract Documents

(Paragraphs deleted) § 6.2 Deleted

#### ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201-2007 and modifications made by Howard County Public School System.

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201-2007 and modifications made by Howard County Public School System.

Init. 1

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#### ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201-2007 and modifications made by Howard County Public School System or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

(Paragraphs deleted) § 8.4 The Contractor's representative: (Name, address and other information)

§ 8.5 The Contractor's representative shall not be changed without ten days written notice to the Owner

§ 8.6 Delete:

#### ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 The Contract Documents, except for Modifications issued after execution of this Agreement are enumerated in the sections below.

§ 9.1.1 The Agreement is the executed Standard Form of Agreement Between Owner and Contractor, AIA Document A101-2007 and modifications made by Howard County Public School System.

§ 9.1.2 The General Conditions are the 2007 edition of the General Conditions of the Contract for Construction, AIA Document A201-2007 and modifications made by Howard County Public School System.

§ 9.1.3 (Paragraphs deleted) Delete § 9.1.4 The Specifications: (Paragraphs deleted) The Specifications are those contained in the Project Manual, and are as follows: Title of Specifications exhibit: As listed in Table of Contents of Project Manuel dated: (Table deleted)

§ 9.1.5 The Drawings: (Paragraph deleted) The Drawings are as follows, and are dated

unless a different date is shown below:

Title of Drawings exhibit: As listed in the Schedule of Drawings of the Contract Title of Drawings exhibit:

(Table deleted) § 9.1.6 The Addenda, if any:

Number

Date

Pages

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Portions of Addenda relating to bidding requirements are not part of the Contract Documents unless the bidding requirements are also enumerated in this Article 9.

§ 9.1.7 Additional documents, if any, forming part of the Contract Documents:

#### (Paragraphs deleted)

As listed in the Project Manual.

#### ARTICLE 10 **INSURANCE AND BONDS**

The Contractor shall purchase and maintain insurance and provide bonds as set forth in Article 11 of AIA Document A201-2007.

(Paragraph deleted)

Type of insurance or bond As listed in the Project Manual

This Agreement is entered into as of the day and year first written above and is executed in at least four original copies of which one is to be delivered to the Contractor, one each to the Construction Manager and Architect for use in the administration of the Contract, and the remainder to the Owner.

#### OWNER

CONTRACTOR

(Signature)

Board of Education of Howard County

(A Body Politic and Corporate)

(Signature)

Ellen Flynn Giles, Chairman

(SEAL)

Approved by:

(Printed name and title)

Renee A. Foose, Ed.D., Superintendent of Schools

1

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#### SECTION 00601 INSURANCE REQUIREMENTS

#### **1 - General Insurance Requirements:**

1.1 - The Contractor shall not commence Work until he has obtained at his own expense all of the insurance as required hereunder and such insurance has been approved by the Board of Education of Howard County Maryland; nor shall the Contractor allow any Subcontractor to commence Work on his subcontract until all similar insurance required of the Subcontractor has been so obtained and approved by the Contractor. Approval of insurance required of the Contractor will be granted only after submission to the Board of Education of Howard County Maryland of original, signed certificates of insurance or, alternately, at the Board of Education of Howard County Maryland's request, certified copies of the required insurance policies.

1.2 - The Contractor shall require all Subcontractors to maintain during the term of this agreement, commercial general liability insurance, business automobile liability insurance, and Workers' Compensation and employers' liability insurance, in the same manner as specified for the Contractor. The Contractor shall furnish Subcontractors' certificates of insurance to the Board of Education of Howard County Maryland immediately upon request.

1.3 - All insurance required hereunder shall include the following provision: "It is agreed that this policy is not subject to cancellation, non-renewal, material change, or reduction in coverage until sixty (60) days prior written notice has been given to the Board of Education of Howard County Maryland."

The phrases "endeavor to" and "... but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" are to be eliminated from the cancellation provision of standard ACORD certificates of insurance.

1.4 - No acceptance and/or approval of any insurance by the Board of Education of Howard County Maryland shall be construed as relieving or excusing the Contractor, or the Surety, or his bonds, from any liability or obligation imposed upon either or both of them by the provisions of the Contract Documents.

1.5 - The Board of Education of Howard County Maryland and its elected or appointed officials, agents and employees are to be named as an additional insured under all coverages except Workers compensation and business automobile liability, and the certificate of insurance, or the certified policy, if requested, must so state this. Coverage afforded under this paragraph shall be primary as respects the Board of Education of Howard County Maryland, its agents and employees.

1.6 - The Contractor shall be responsible for the Work performed under the Contract Documents and every part thereof, and for all materials, tools, equipment, appliances, and property of any and all description used in connection with the Work. The Contractor assumes all risk for direct and indirect damage or injury to the property or persons used or employed on or in connection with the Work contracted for, and of all damage or injury to any person or property wherever located, resulting from the action, omission, commission or operation under the contract, or in connection in any way whatsoever with the contracted Work, until final acceptance of the Work by the Board of Education of Howard County Maryland.

1.7 - Insurance coverage required in these specifications shall be in force throughout the contract term. Should the Contractor fail to provide acceptable evidence of current insurance within seven days of written notice at any time during the contract term, the Board of Education of Howard County Maryland shall have the absolute right to terminate the contract without any further obligation to the Contractor, and the Contractor shall be liable to the Board of Education of Howard County Maryland courting performance and the cost of performing the incomplete portion of the contract at time of termination.

1.8 - Contractual and other liability insurance provided under this contract shall not contain a supervision, inspection or engineering services exclusion that would preclude the Board of Education of Howard County Maryland from supervising or inspecting the project as to the end result. The Contractor shall assume all

on-the-job responsibilities as to the control of persons directly employed by it and of the Subcontractors and any persons employed by the Subcontractor.

1.9 - Nothing contained in the specifications shall be construed as creating any contractual relationship between any Subcontractor and the Board of Education of Howard County Maryland. The Contractor shall be fully responsible to the Board of Education of Howard County Maryland for the acts and omissions of the Subcontractors and of persons employed by them as it is for acts and omissions of persons directly employed by it.

1.10 - Precaution shall be exercised by the Contractor at all times for the protection of persons, (including employees) and property. All existing structures, utilities, roads, services, trees and shrubbery shall be protected against damage or interruption of service at all times by the Contractor and its Subcontractors during the term of the contract, and the Contractor shall be held responsible for any damage to property occurring by reason of its operation on the property.

1.11 - If the Contractor does not meet the insurance requirements of the specifications, alternate insurance coverage, satisfactory to the Board of Education of Howard County Maryland, may be considered. Written requests for consideration of alternate coverages must be received by the Board of Education of Howard County Maryland at least ten Working days prior to the date set for receipt of bids or proposals. If the Board of Education of Howard County Maryland coverages, the specified coverages will be required to be submitted.

1.12 - All required insurance coverages must be acquired from insurers allowed to do business in the State of Maryland and acceptable to the Board of Education of Howard County Maryland. The insurers must also have a policyholders' rating of "A-" or better, and a financial size of "Class VII" or better in the latest edition of Best's Insurance Reports, unless the Board of Education of Howard County Maryland grants specific approval for an exception.

1.13 - The Board of Education of Howard County Maryland will consider any deductible amounts as part of its review of the financial stability the Contractor. Any deductibles shall be disclosed by the Contractor, and deductible amounts are the responsibility of the Contractor.

#### 2 - Contractor's Liability Insurance - "Occurrence" Basis:

2.1 - The Contractor shall purchase the following insurance coverages:

2.1.1 - Commercial general liability with a minimum limit of \$1,000,000 per occurrence, \$1,000,000 annual aggregate including all of the following:

- i. General aggregate limit is to apply per project;
- ii. Premises/operations;
- iii. Actions of independent Contractors;
- iv. Products/completed operations to be maintained for two years after completion of the Work;
- v. Contractual liability including protection for the Contractor from claims arising out of liability assumed under this contract;
- vi. Personal injury liability including coverage for offenses related to employment;
- vii. Explosion, collapse, or underground (XCU) hazards (confirmation of underground hazard coverage must be confirmed by either certificate of insurance or in writing by Contractor's agent, broker or insurer);

2.1.2 - Business automobile liability including coverage for any owned, hired, or non-owned motor vehicles and automobile contractual liability with a limit of \$1,000,000 per accident; uninsured motorist coverage at minimum statutory limits.

2.1.3 - Workers compensation with statutory benefits as required by Maryland law or the U. S. Longshoremen's and Harbor Workers' Compensation Act, or other laws as required by labor union agreements, including standard other states coverage; employers' liability coverage with limits of \$100,000 per accident, \$100,000 per employee for disease, and a \$500,000 disease policy limit.

2.1.4 - Total limit requirements of 2.1.1, 2.1.2 and 2.1.3 may be met by a combination of primary and umbrella excess liability coverage.

2.1.5 - Aircraft liability including coverage for any owned, hired or non-owned aircraft utilized in the project (e.g. installation of HVAC unit on school roof) with a minimum limit of <u>NA</u> per occurrence applicable to aircraft while in flight or in motion. A higher limit may be required by the Board of Education of Howard County Maryland upon exposure review.

#### 3 - Commercial General or Other Required Liability Insurance - "Claims Made" Basis

3.1 - If commercial general or other liability insurance purchased by the Contractor has been issued on a "claims made" basis, the Contractor must comply with the following additional conditions:

i. Agree to provide certificates of insurance evidencing the above coverages for a period of two years after final payment for the contract. Such certificates shall evidence a retroactive date, no later than the beginning of the Contractors' or Subcontractors' Work under this contract, or

ii. Purchase an extended (minimum two years) reporting period endorsement for the policy or policies in force during the term of this contract and evidence the purchase of this extended reporting period endorsement by means of a certificate of insurance or a copy of the endorsement itself.

# **AIA**<sup>°</sup> Document A312<sup>™</sup> – 2010

# **Payment Bond**

#### CONTRACTOR:

(Name, legal status and address)

SURETY: (Name, legal status and principal place of business)

**OWNER:** (Name, legal status and address)

#### **CONSTRUCTION CONTRACT** Date:

Amount: \$

**Description:** (Name and location)

#### BOND

Date:			
(Not earlier than	Construction	Contract	Date)

(Corporate Seal)

(Corporate Seal)

Amount: \$

Company

Signature

SURETY Company

Name and Title:

(Row deleted) Signature

Name and Title:

Modifications to this Bond:

CONTRACTOR AS PRINCIPAL

See Section 18

None

(Any additional signatures appear on the last page of this Payment Bond.)

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

Init.

1

Drawings and Specifications prepared by: (Architect name and address)

Init.

1

§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators. successors and assigns to the Owner to pay for labor, materials and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.

§ 2 If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.

Which contract is by reference made a part hereof, and is hereinafter referred to as the Contract. LABOR AND MATERIAL PAYMENT BOND

Now therefore, the condition of this obligation is such that, if Principal shall promptly make payment to all claimants as hereinafter defined. For all labor and material used or presumably required for use in the performance of the Contract, then this obligation shall be void: otherwise it shall remain in full force and effect, subject, however, to the following conditions:

- 1. A claimant is defined as one having a direct contract with the principal or with a Subcontractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.
- 2. The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, prosecute the suit for final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.
- 3. No suit or action shall be commenced hereunder by any claimant:
  - a) Unless claimant, other than on having a direct contract with the Principal, shall have given written notice to any two of the following: the Principal, the Owner, or the Surety above named, within ninety(90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Owner or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.
  - b) After the expiration of one (1) year following the date on which Principal ceased Work on seaside Contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.
  - c) Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the Project, or any part thereof, is situated, or in the United
States District Court for the district in which the Project, or any part thereof, is situated, and not elsewhere.

Company:

4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens with may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.) -----SURETY

CONTRACTOR AS PRINCIPAL		
Company:	(Corporate Seal)	

Signature:

Name and Title:

Signature: Name and Title:

Address:

Address:

Init.

1

(Table deleted)(Paragraphs deleted)

3

(Corporate Seal)

## MAIA® Document A312<sup>™</sup> – 2010

## Performance Bond

### CONTRACTOR:

(Name, legal status and address)

SURETY: (Name, legal status and principal place of business)

**OWNER:** (Name, legal status and address)

**CONSTRUCTION CONTRACT** Date: Amount: \$ Description: (Name and location)

BOND Date: (Not earlier than Construction Contract Date)

Amount: 5 Modifications to this Bond:		NONE	SEE SECTION 18
CONTRACTOR AS PRINCI Compan (Corpora) Y:	*******************	SURETY Compan Y:	(CORPORATE SEAL)
SIGNATU RE: NAME AND TITLE:	-	SIGNATU RE: NAME AND TITLE:	

## IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS PREPARED BY: (HERE INSERT FULL NAME AND ADDRESS OR LEGAL TITLE OF ARCHITECT)

(Table deleted)

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Any singular reference to Contractor,

Surety, Owner or other party shall be considered plural where applicable.

and where the author has added to or

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§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

Which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

#### PERFORMANCE BOND

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The surety hereby waives notice of any alteration of extension of time made by the Owner. Whenever Contractor shall be, and declare by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly

- 1. Complete the contract in accordance with is terms and conditions, or
- 2. Obtain a bid or bids for competing the Contract in accordance with is terms and conditions, and upon determination by Surety of the lowest responsible bidder, or, if the Owner elects, upon determination by the Owner and the Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and Owner, and make available as Work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by Owner to Contactor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the Contract falls due.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of the Owner.

Signed and sealed this day of

(Witness)

(Principal)

(Seal)

(Witness)

(Title)

(Table deleted)(Paragraphs deleted)

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# **▲IA** Document A201<sup>™</sup> – 2007

## General Conditions of the Contract for Construction

for the following PROJECT: (Name and location or address)

THE OWNER: (Name and address)

THE ARCHITECT: (Name and address)

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#### ARTICLE 1 **GENERAL PROVISIONS** § 1.1 BASIC DEFINITIONS

#### § 1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding requirements.

#### § 1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

#### § 1.1.3 THE WORK

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

#### § 1.1.4 THE PROJECT

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by separate contractors.

#### § 1.1.5 THE DRAWINGS

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

#### § 1.1.6 THE SPECIFICATIONS

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

#### § 1.1.7 INSTRUMENTS OF SERVICE

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

#### § 1.1.8 INITIAL DECISION MAKER

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2 and certify termination of the Agreement under Section 14.2.2.

#### § 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

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\$ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade. Wherever in the Specifications there appears a reference to a "Contractor" or the "Subcontractor" or a reference to a Contractor, installer or supplier of a particular trade, or for a particular type of Work, such reference, regardless of the language hereof shall be deemed a reference to the Contractor and shall not be construed as relieving the Contractor from the duty to perform all of the Work and other obligations provided under the Contract.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

#### § 1.3 CAPITALIZATION

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents published by the American Institute of Architects.

#### § 1.4 INTERPRETATION

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

#### § 1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

§ 1.5.1 The Drawings, Specifications and other documents, including those in electronic form, prepared by the Architect and the Architect's consultants are Instruments of Service through which the Work to be executed by the Contractor is described. The Contractor may retain one record set. Neither the Contractor nor any Subcontractor, Sub-subcontractor or material or equipment supplier shall own or claim a copyright in the Drawings. Unless otherwise indicated, the Architect shall be deemed the author of the Specifications and other documents prepared by the Architect. All copies of Instruments of Service, except the Contractor's record set, shall be returned or suitably accounted for to the Architect, on request, upon completion of the Work. The Drawings, Specifications and other documents prepared by the Architect and the Architect's consultants, and copies thereof furnished to the Contractor, are for use solely with respect to this Project. They are not to be used by the Contractor or any Subcontractor, Sub-subcontractor or material or equipment supplier on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants. The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce applicable portions of the Drawings, Specifications and other documents prepared by the Architect and the Architect's consultants appropriate to and for use in the execution of their Work under the Contract Documents. All copies made under this authorization shall bear the statutory copyright notice, if any, shown on the Drawings, Specifications and other documents prepared by the Architect and the Architect's consultants. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the Owners copyrights or other reserved rights. The Drawings, Specifications, and other documents are and shall always be the property of the Owner, and the Owner shall retain all common law, statutory, and other reserved rights in addition to copyright.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

#### § 1.6 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Agreement or the Contract Documents.

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#### ARTICLE 2 OWNER § 2.1 GENERAL

§ 2.1.1 1 The Owner is the Board of Education of Howard County Maryland identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 2 The Contractor understands that the Board of Education of Howard County, Maryland, is a public agency, and no mechanics' liens are permitted against its property.

#### § 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

#### § 2.2.1 Deleted

§ 2.2.2 Except for permits and fees, including those required under Section 3.7.1, which are the responsibility of the Contractor under the Contract Documents, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction,

§ 2.2.3 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site to the extent reasonably required for execution of the Work and requested by the Contractor in writing within one (1) month of the date of Contract. The Owner does not warrant or undertake responsibility for the location of utilities or the accuracy of tests concerning the soil, surface, and subsurface conditions.

§ 2.2.4 Information or services under the Owner's control shall, be furnished by the Owner after receipt from the Contractor of a written request for such information or services..

#### (Paragraph deleted)

§ 2.2.5Unless otherwise provided in the Contract Documents, the Contractor will be furnished, free of charge. Three (3) sets of copies of Drawings and Project Manuals as are reasonably necessary for execution of the Work.

#### § 2.3 OWNER'S RIGHT TO STOP THE WORK

§2.3.1 If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3. This right shall be in addition to an not in restriction or derogation of the Owners' rights under Section 4.3.4 and under Article 14 of the General Conditions.

**§2.3.2** If unforeseen conditions occur or are encountered which may substantially impair the quality of the Work unless the Work is suspended, the Owner may suspend the Work by notice in writing to the Contractor. In the event of such a suspension, Contractor shall be entitled only to payment for work actually completed up to and including the date on which the work was suspended by the Owner. In any event where the Contractor reasonably determines that a suspension is required in such circumstances, the Contractor shall promptly notify in writing the Owner and Architect of such determination. In the event the Owner agrees to suspend the work, the Contractor shall only be entitled to payment for work actually completed up to and including the date on which the work was suspended.

#### § 2.4 OWNER'S RIGHT TO CARRY OUT THE WORK

§ 2.4.1 If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a seven-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, upon written notice to the Contractor at the

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conclusion of the above referenced seven day period without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect or failure, upon written notice to the Contractor at the conclusion of the above referenced seven-day period, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the cost of correcting such deficiencies, including compensation for the Architect's and their respective consultants' additional services and expenses made necessary by such default, neglect or failure. At the election of the Owner, the first written notice to the Contractor to correct defective work may also contain written notice that if the defective work or other specified cause for termination is not corrected, cured, or remedied to Owner's satisfaction, then Owner may issue a written notice to Contractor at the end of the above reference seven (7) day period terminating the Contractor's employment under the Contract pursuant to Article 14 of these General Conditions. In the event the Owner elects to terminate the Contractor's employment under this Contract, the Contractor shall only be entitled to payment for work under the Agreement actually completed by the Contractor up to the date of Contractor's termination, less deductions for: (1) the cost of correcting any deficient or defective work, including compensation for the Architect and their respective consultant's additional services and expenses made necessary by the Contractor's defective work, default, neglect, or failure to perform under this Contract; (2) damages incurred by the Owner as a result of the Contractor's breach, including but not limited to costs to finish the work and damages for delay, if any, in completing the work under the Contract; and (3) actual reasonable attorney's fees incurred by the Owner in obtaining legal advice, counsel, and/or representation relating to the issues of Contractor's breach of contract, defective work, default neglect, or failure to perform and Owner's legal options relating thereto as well as any other reasonable attorney's fees due to Owner under other provisions of this Contract; and (4) such other amounts due and owing to Owner under the terms and conditions of the Contract documents. In the event the Contractor is terminated pursuant to Article 14.2, the Contractor shall not be entitled to any remaining funds under the Contract after the date of termination except as specifically provided above, and subject to the availability of funds after all work is completed. All remaining unpaid funds in the Contract as of the Contractor's termination date shall be the sole and exclusive property of the Owner, and the Contractor shall be paid by the Owner at the conclusion of all work under the Contract as provided above, but only to the extent that there are funds remaining after all payments have been made to complete the work under the Contract and to compensate the Owner as provided above in the four (4) enumerated deductions in this Article 2.4.1. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

## ARTICLE 3 CONTRACTOR

#### § 3.1 GENERAL

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§ 3.1.1 . 1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The term "Contractor" means the Contractor or the Contractor's authorized representative. When separate contracts are awarded for different portions of the Project or other work on the site, the term Contractor in the Contract Documents in each case shall mean the contractor who executes each separate Contractor Agreement.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

#### § 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 3.2.1 The Contractor warrants that it has made itself familiar with the Project site and obtained all information required by the Contractor concerning the conditions of the Project site including but not limited to soil, surface, and subsurface conditions, legal descriptions and surveys of the Project site, and the location of utilities and the improvements to be constructed. The Contractor shall continue to carefully study and compare the Contract Documents with each other and with information obtained by Contractor by his own investigation and tests and shall at once report to the Owner and Architect errors, inconsistencies, or omissions discovered. These obligations are for

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the purpose of facilitating construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, any errors, inconsistencies or omissions discovered by the Contractor shall be reported promptly to the Architect as a request for information in such form as the Architect may require. If the Contractor performs any construction activity with either actual knowledge or constructive knowledge that it involves an error, inconsistency, or omission in the Contract Documents, the Contractor shall assume liability for such performance and costs for correction.

§ 3.2.2 Any design errors or omissions noted by the Contractor during this review shall be reported promptly to the Architect, but it is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional unless otherwise specifically provided in the Contract Documents. The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, building codes, and rules and regulations, but any nonconformity discovered by or made known to the Contractor shall be reported promptly to the Architect. If the Contractor performs any construction activity with either actual knowledge or constructive knowledge that it involves an error, inconsistency, or omission in the Contract Documents, the Contractor shall assume liability for such performance and costs for correction.

§ 3.2.3 Any design errors or omissions noted by the Contractor during this review shall be reported promptly to the Architect, but it is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional unless otherwise specifically provided in the Contract Documents. The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, building codes, and rules and regulations, but any nonconformity discovered by or made known to the Contractor shall be reported promptly to the Architect. If the Contractor performs any construction activity with either actual knowledge or constructive knowledge that it involves an error, inconsistency, or omission in the Contract Documents, the Contractor shall assume liability for such performance and costs for correction.

#### § 3.2.4 Delete.

#### § 3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, . The Contractor shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents by activities or duties of the Architect in their administration of the Contract, or by tests, inspections or approvals required or performed by persons other than the Contractor.

§ 3.3.4 All inspections required by law shall be obtained by the Contractor, including but not limited to those required by law to be obtained by the Owner, and no failure of the Owner to obtain such inspection shall constitute a waiver of Contractor's obligation hereunder. The Contractor shall notify the Owner of any application for inspection required to be executed by the Owner.

#### § 3.4 LABOR AND MATERIALS

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

#### § 3.4.2 Delete

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§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

**§3.4.4** By law, all school sites are drug, alcohol, and tobacco free, and Contractor shall ensure that all workers on the job site comply with the said law.

#### § 3.5 WARRANTY

§ 3.5.1 The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of excellent quality and new unless otherwise required or permitted by the Contract Documents, that the Work shall be performed in an excellent manner and shall be free from defects, and that the Work shall conform to the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, shall be considered defective. The Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

#### § 3.6 TAXES

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received, whether or not yet effective or merely scheduled to go into effect.

#### § 3.7 PERMITS, FEES, NOTICES, AND COMPLIANCE WITH LAWS

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit and other permits and governmental fees, licenses and inspections necessary for proper execution and completion of the Work which are customarily secured after execution of the Contract and which are legally required when bids are received. The Owner will not reimburse the Contractor for the cost of elective permits, which the Contractor chooses to secure in conjunction with its means and methods of executing the work, or for any offsite permits.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 The Contractor shall review the Contract Documents to ascertain that the Contract Documents are to the best of the Contractor's knowledge in accordance with applicable laws, statutes, ordinances, building codes, and rules and regulations. The Contractor shall promptly notify the, Architect and Owner in writing, of any variance therewith, and necessary changes shall be accomplished by appropriate Modification.

§ 3.7.4 If the Contractor performs Work contrary to laws, statutes, ordinances, building codes, and rules and regulations, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

(Paragraph deleted) § 3.8 Deleted

#### (Paragraphs deleted) § 3.9 SUPERINTENDENT

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor. Project conference meeting minutes shall constituted Owner's request in writing. The Owner shall have the right to require the Contractor

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to replace any superintendent whose performance the Owner deems to be unsatisfactory, and the Contractor's failure to do so within seven (7) days of having received written notice from the Owner as to the Superintendent's unsatisfactory performance shall constitute a breach of Article 14.2.1, thereby giving the Owner the right to terminate the Contractor's employment under this Contract.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the name and qualifications of a proposed superintendent.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

#### § 3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall promptly prepare and submit for the Owner's and Architect's approval a proposed Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, but shall not extend the original completion date and shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.2 The Contractor shall prepare and keep current, for the Architect's/Owners review. a schedule of submittals which is coordinated with the Contractor's construction schedule and allows the Architect reasonable time to review submittals.

#### (Paragraph deleted)

#### § 3.11 DOCUMENTS AND SAMPLES AT THE SITE

The Contractor shall maintain at the site for the Owner one record copy of the Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to record field changes and selections made during construction, and one record copy of approved Shop Drawings, Product Data, Samples and similar required submittals. These shall be available to the Architect and shall be delivered to the Architect for submittal to the Owner in good condition upon completion of the Work and before final payment is made and shall be executed by the Contractor certifying that they have been kept in accordance with the provisions of this subparagraph and accurately reflect the construction of the Work as built.

#### § 3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required by the Contract Documents the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents, Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals which are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in

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withheld. The Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

#### § 3.15 CLEANING UP

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove from and about the Project waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials.

#### (Paragraph deleted)

**§3.15.2** If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contractor.

#### § 3.16 ACCESS TO WORK

The Contractor shall provide the Owner and Architect and Owner engaged Testing Agencies access to the Work in preparation and progress wherever located.

#### § 3.17 ROYALTIES, PATENTS AND COPYRIGHTS

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Architect.

#### § 3.18 INDEMNIFICATION

§ 3.18.1 To the fullest extent permitted by law and to the extent claims, damages, losses or expenses are not covered by Project Management Protective Liability insurance purchased by the Contractor. The Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to reasonable attorneys' fees and litigation expenses incurred by the Owner, and arising out of or resulting from performance of the Work, defective work, default, neglect, and or failure to perform under the Contract. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

## ARTICLE 4 ARCHITECT

#### § 4.1 GENERAL

§ 4.1.1 The Architect is the person lawfully licensed to practice architecture or an entity lawfully practicing architecture identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The term "Architect" means the Architect or the Engineer or the Architect's or Engineer's authorized representative.

§ 4.1.2 Duties, responsibilities and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted

§ 4.1.3 If the employment of the Architect is terminated, the Owner shall employ a new Architect whose status under the Contract Documents shall be that of the former Architect.

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#### § 4.2 ADMINISTRATION OF THE CONTRACT

(Paragraph deleted)

§ 4.2.1. The Architect will provide administration of the Contract as described in the Contract Documents, and will be an Owner's representative (1) during construction, (2) until final payment is due and (3) with the Owner's concurrence, from time to time during the one or two year period for correction of Work described in Section 12.2. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents, unless otherwise modified in writing in accordance with other provisions of the Contract.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents, except as provided in Section 3.3.1.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents and from the most recent construction schedule submitted by the Contractor, and (2) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

#### § 4.2.4 COMMUNICATIONS FACILITATING CONTRACT ADMINISTRATION

Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the Owner and Contractor shall endeavor to communicate with each other through the Architect about matters arising out of or relating to the Contract. Communications by and with separate contractors shall be through the Owner.

§ 4.2.5 Based on the Architect's/Owner's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13,5,2 and 13,5,3, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, and 3.12. The Architect's review shall not constitute approval of safety precautions or, unless otherwise specifically stated by the Architect, of any construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

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§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may authorize minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion, will receive, review for completeness and forward to the Owner, records, written warranties and related documents required by the Contract and assembled by the Contractor, and will issue a final Certificate for Payment upon compliance with the requirements of the Contract Documents.

#### § 4.2.10 Delete

§ 4.2.11 The Architect will interpret and decide matters concerning performance under and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing with reasonable promptness

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of and reasonably inferable from the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and initial decisions, the Architect will endeavor to secure faithful performance by the Contractor

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

#### ARTICLE 5 SUBCONTRACTORS

#### § 5.1 DEFINITIONS

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§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor. . Under no circumstances shall the Contractor subcontract any portion of the work under the Contract Documents to any person or entity in which the Contractor (including any officer and/or stockholder of the Contractor) has an ownership interest. Under no circumstances shall the Contractor assign or otherwise contract with another person or entity to assume the Contractor's obligations and duties as Contractor under these Contract Documents

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

#### § 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

§ 5.2.1 Within thirty (30) days of the award of the Contract, the Contractor shall furnish in writing to the Owner through the Architect the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work. The Architect will promptly reply to the Contractor in writing stating whether or not the Owner or the Architect, after due investigation, has reasonable objection to any such proposed person or entity. Failure of the Owner or Architect to reply promptly shall constitute notice of no reasonable objection. . Subcontractors, required to be named on the Bidding Documents, shall be used on the Work for which they are proposed, unless reasonable objection is indicated by the Owner, or the Architect.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

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§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work, However, no increase in the Contract Sum shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not change a Subcontractor, person or entity previously selected without approval of the Owner.

#### § 5.3 SUBCONTRACTUAL RELATIONS

\$5.3.1 By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by these Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

#### § 5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner provided that:

assignment is effective only after termination of the Contract by the Owner for cause pursuant to .1 Section 14.2, or stoppage of the Work pursuant to Article 2.3, and only for those subcontract agreements which the Owner accepts by notifying the Subcontractor and Contractor in writing;.

(Paragraphs deleted)

#### **§5.5 PAYMENTS TO SUBCONTRACTORS**

§5.5.1 The Contractor shall pay each subcontractor upon receipt of payment from the Owner, an amount equal to the percentage of completion allowed to the Contractor on account of each Subcontractor's work less the percentage retained for payments to the Contractor. The Contractor shall also require each Subcontractor to make similar payments to its Sub-subcontractors.

**§5.5.2** If the Owner fails to approve a Requisition for Payment for a cause which the Owner determines is the fault of the Contractor and not the fault of a particular Subcontractor, or if the Contractor fails to make a payment which is properly due to a particular Subcontractor, the Owner may pay each Subcontractor directly less the amount to be retained under the Subcontract. Any amount so paid by the Owner shall be repaid to the Owner by the Contractor in the manner set forth in Subparagraph 2.4

**§5.5.3** The Owner shall have no obligation to pay or see to the payment of any monies to any Subcontractor. Nothing contained in Article 5.5 shall be deemed to create any rights in any Subcontractor against the Owner.

#### CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS ARTICLE 6

§ 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

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§ 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Contractor claims that delay or additional cost is involved because of such action by the Owner, the Contractor shall make such Claim as provided in Article 15.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

#### (Paragraph deleted) § 6.2 MUTUAL RESPONSIBILITY

§ 6.2.1 The Contractor shall afford the Owner and separate contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Architect apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Contractor so to report shall constitute an acknowledgment that the Owner's or separate contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work, except as to defects not then reasonably discoverable.

§ 6.2.3 The Owner shall be reimbursed by the Contractor for costs incurred by the Owner which are payable to a separate contractor because of delays, improperly timed activities or defective construction of the Contractor.

§ 6.2.4 The Contractor shall promptly remedy damage caused by the Contractor to completed or partially completed construction or to property of the Owner or separate contractors as provided in Section 10.2.5.

#### (Paragraph deleted) § 6.3 OWNER'S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

#### ARTICLE 7 CHANGES IN THE WORK

#### § 7.1 GENERAL

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§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall not relieve the Contractor of obligations under the contract.

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§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Construction Change Directive or order for a minor change in the Work.

#### § 7.2 CHANGE ORDERS

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor and Architect stating their agreement upon all of the following:

- .1 The change in the Work;
- .2 an amount of the adjustment, if any, in the Contract Sum; and
- .3 the extent of an adjustment, if any, in the Contract Time.

§ 7.2.2 Methods used in determining adjustments to the Contract Sum may include those listed in Section 7.3.3.

#### § 7.3 CONSTRUCTION CHANGE DIRECTIVES

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

- Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to .1 permit evaluation;
- Unit prices stated in the Contract Documents or subsequently agreed upon; .2
- Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or .3 percentage fee

§ 7.3.4 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 7.3.5 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

#### (Paragraphs deleted)

§ 7.3.9When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

#### § 7.4 CHANGE ORDERS

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§ 7.4.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner. Contractor and Architect, stating their agreement upon all of the following:

- change in the Work; and/ or .1
- an amount of the adjustment, if any, in the Contract Sum; and/or .2
- .3 the extent of an adjustment, if any, in the Contract Time.

§ 7.4.2 Methods used in determining adjustments to the Contract Sum may include those listed in Section 7.3.3.

#### § 7.5 MINOR CHANGES IN THE WORK

§ 7.5.1 The Architect with concurrence from the Owner will have authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the purposes of the building and the Contract Documents. Such changes shall be effected by written order and shall be binding on the Owner and Contractor. The Contractor shall carry out such written orders promptly.

#### **ARTICLE 8** TIME

#### § 8.1 DEFINITIONS

§ 8.1.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

#### § 8.2 PROGRESS AND COMPLETION

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance. Unless the date of commencement is established by the Contract Documents or a notice to proceed given by the Owner, the Contractor shall notify the Owner in writing not less than five days or other agreed period before commencing the Work. .

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

**§8.2.4** Should the progress of the Work be delayed by any fault, neglect, act or omission of the Contractor or any person or firm employed by him or should it be necessary to complete the Work within the time permitted for the Contractor's work, the Contractor shall, at its own cost and expense, work such overtime as may be necessary to make up for all time lost and to avoid delay in completion of the Work. The Contractor shall compensate the Owner for and hold him harmless against any and all costs, expenses, reasonable attorney's fees, losses, liability, and damages that the Owner may sustain or incur by reason of such delay.

#### § 8.3 DELAYS AND EXTENSIONS OF TIME

#### (Paragraph deleted)

§ 8.3.1. Requests for extension of completion time due to conditions over which the Contractor has no control, will be reviewed by the Owner after written application is made to the Architect for a time extension. Any request for any extension of time is to be made within 21 days of occurrence of conditions which, in the opinion of the Contractor

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warrant such an extension, with reasons clearly stated and detailed proof given for all delays beyond the Contractor's control. No time extension will be allowed except by written and specific approval of the Owner. Delays beyond the Contractor's control may include: an act or neglect of the Owner's own forces. Architect, any of the other Contractors, or an employee of any of them, or by changes ordered in the Work, or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties, or other causes beyond the Contractor's control, or by delay authorized by the Owner.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

#### (Paragraph deleted) ARTICLE 9 PAYMENTS AND COMPLETION

#### § 9.1 CONTRACT SUM

The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

#### **§ 9.2 SCHEDULE OF VALUES**

§ 9.2.1 Before the first Requisition for Payment, the Contractor shall submit to the Architect a schedule of values allocated to various portions of the Work, prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Requisitions for Payment.

#### § 9.3 3 REQUISISTION FOR PAYMENT

§ 9.3.1 The Contractor shall prepare and submit three original copies to the Architect on the 25<sup>th</sup> day of each month itemized "Requisition for Payment" (IAC PSCP Form 306.4 Standard Contractor's Requisition for Payment and such other forms as may be designated by Owner) for operations completed in accordance with the Schedule of Values for the value of the work completed or anticipated to be completed through the last day of such month, including the value of material suitably stored at the Project Site or other approved locations as provided in Subparagraph 9.3.2, less the aggregate of any previous payments and retainages and less retainages required by the Contract Documents. No change in the Contract Sum shall be made by Contractor on any Requisition for Payment without an approved Change Order. Faxed Requisitions for payment will NOT be accepted.

At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment for operations completed in accordance with the schedule of values. Such application shall be notarized, if required, and supported by such data substantiating the Contractor's right to payment as the Owner or Architect may require, such as copies of requisitions from Subcontractors and material suppliers, and reflecting retainage if provided for in the Contract Documents.

#### (Paragraphs deleted)

§ 9.3.2 As provided in Section 7.3.8, such Requisitions may include requests for payment on account of changes in the Work which have been properly authorized by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.3 Such Requisitions may not include requests for payment for portions of the Work for which the Contractor does not intend to pay to a Subcontractor or material supplier.

9.3.4 Upon completion of fifty percent (50%) of the work and provided that the Contract work is on schedule and the Contractor's performance is deemed by the Owner to be satisfactory, the Owner may at his discretion decline to withhold further retainage on the remainder of the work to be billed. If Project schedules are not pursued diligently, or if the Contractor's work is at any time deemed by the Owner to be unsatisfactory, the withholding of the further retainage up to ten percent (10%) of the Contract value may be reinstated by the Owner at its discretion. If the Contractor intends to request a reduction of retainage as stated above, the Contractor must submit a request 30 days prior to invoicing the Owner for a reduction. A consent of surety to a reduction of retention along with a justification of the progress on the job in relation to the overall Project must be submitted. A complete labor and material schedule of values for all aspects of the work must also be submitted with the request for approval.

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§ 9.3.5 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage and transportation to the site for such materials and equipment stored off the site. When the Requisition for Payment includes material or equipment stored off the Project site, the Contractor shall include with the requisition a certified statement including

- 1. Description of items.
- 2. Bill of Sale,
- 3. Location of storage facility and delivery receipt,
- 4. Items are currently covered by all contractual requirements, including liability and fire insurance,
- 5. Items, or any part thereof will not be installed in other construction projects other than work under this Contract.

§ 9.3.6 The Contractor warrants that title to all Work covered by a Requisition for Payment shall pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of a Requisition for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work. Contractor shall indemnify and hold Owner harmless from any liens, claims, security interests, or encumbrances claimed by Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and/or equipment relating to the Work and from all costs and expenses, including reasonable attorney's fees, incurred by Owner in connection therewith.

§ 9.3.7 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or material supplier, unless such Work has been performed by others whom the Contractor intends to pay.

#### § 9.3.8 Deleted

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§ 9.3.9The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

#### § 9.4 CERTIFICATES FOR PAYMENT

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Requisition for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Architect determines is properly due, or notify the Contractor and Owner in writing of the Architect's reasons for withholding certification in whole or in part as provided in Section 9.5.1.

§ 9.4.2 The Architect shall endeavor to obtain approval by the Owner, and Contractor of the draft Requisition for Payment. If approval is obtained, the Architect shall notify the Owner, and Contractor, and shall issue a Project Certificate of Payment. The Contractor shall then submit five (5) copies of the agreed upon Requisition for Payment to the Architect which shall be signed by the Contractor, Owner, and Architect, and shall be notarized. If approval is not obtained of the draft Requisition for Payment, the Architect shall notify the Contractor of non-approval. The Architect shall issue a Project Certificate for Payment to the Owner with a copy to the to the Contractor for such amounts as the, Architect, and Owner determine are properly due.. The Contractor shall then submit a Requisition for Payment pursuant to such Project Certificate for Payment, if any, in five (5) copies based on the Architect's determination. The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner,

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based on the Architect's evaluation of the Work and the data comprising the Application for Payment, that the Work has progressed to the point indicated and that, to the best of the Architect's knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has

(1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work,

(2) reviewed construction means, methods, techniques, sequences or procedures,

(3) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or

(4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

9.4.3 In any event, where the Owner, and Architect do not certify payment or withhold certification to any extent, the Contractor shall nonetheless continue to perform the Work fully.

#### § 9.5 DECISIONS TO WITHHOLD CERTIFICATION

#### (Paragraphs deleted)

\$9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of:

- defective Work not remedied; .1
- third party claims filed or reasonable evidence indicating probable filing of such claims unless security .2 acceptable to the Owner is provided by the Contractor;
- failure of the Contractor to make payments properly to Subcontractors or for labor, materials or .3 equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or another contractor:
- .6 reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 persistent failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.

#### (Paragraph deleted)

#### § 9.6 PROGRESS PAYMENTS

#### (Paragraphs deleted)

§ 9.6.1The Contractor shall pay each Subcontractor no later than seven days after receipt of payment from the Owner the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.2The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

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§ 9.6.3 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

§ 9.6.4 Contractor payments to material and equipment suppliers shall be treated in a manner similar to that provided in Sections 9.6.1, 9.6.2 and 9.6.3.

§ 9.6.5 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.6 Under no circumstances shall the Contractor assign to any person or entity the Contractor's right to receive payment under the Contract Documents, unless the Contractor has received express, prior written consent of the Owner, which consent specifically identifies the identity of such assignee. Nothing contained in these Contract Documents shall require the Owner to approve such an assignment of payments by the Contractor to a third party.

§ 9.6.7 Neither the Owner nor Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor except as may otherwise be required by law.

#### § 9.7 FAILURE OF PAYMENT

§ 9.7.1. If the Architect should fail to issue notice of approval or disapproval within fourteen (14) days of Owner's receipt of the Contractor's draft Requisition for Payment, or if, through no fault of the Contractor, the Architect does not issue a Project Certificate for Payment within seven (14) days after receipt of the Owner's approval or disapproval of the draft Requisition for Payment, the Contractor may file a claim against the Owner for payment as provided in Article 15.

#### § 9.8 SUBSTANTIAL COMPLETION

#### (Paragraph deleted)

§9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so the Owner can occupy or utilize the Work for its intended use; i.e., when the Owner is granted a "Use and Occupancy Permit" by Howard County and other Authorities having jurisdiction.

§ 9.8.2 When the Architect, and Owner agree that the project has reached "Substantial Completion" as set forth in Paragraph 9.8.1 and is on schedule, and it appears that there are no complications or problems in completing the job, the retainage may be reduced to five percent (5%) at the Owner's discretion.

9.8.3 Except as stated in Paragraph 9.8.2 after the payment due the Contractor at Substantial Completion has been made by the Owner, no other payment shall be made until the Project has been fully completed and the Contract fully performed.

#### (Paragraph deleted)

§ 9.8.4 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

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§ 9.8.5 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.6 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.7 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to such Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

#### § 9.9 PARTIAL OCCUPANCY OR USE

**§ 9.9.1** The Owner may occupy or use any completed or partially completed portion of the Work at any stage.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

#### § 9.10 FINAL COMPLETION AND FINAL PAYMENT

§ 9.10.1 Upon receipt of written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Requisition for Payment, the Architect will promptly make such inspection and, when the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect

(1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied,

(2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner.

(3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents,

(4) consent of surety, if any, to final payment with AIA Form; and

(5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such

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form as may be designated by the Owner and release of liens on the "Contractor's Affidavit of Release of Liens and Payment of Debts and Claims" AIA Form:

(6) all records, Drawings and Specifications, Addenda, Change Orders, and other modifications maintained at the site under the Subparagraph 3.11 all warranties, instructions, and maintenance manuals required.

If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien or claim. If such lien or claim remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien or claim, including all costs and reasonable attorneys' fees incurred by Owner. Final payment to the Contractor shall not become due until all close-out documents have been properly submitted to and received by the Architect through the Construction Manager and certified to the Architect and delivered by the Architect to the Owner and all warranty work has been fully completed.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

§ 9.10.4 (Paragraphs deleted) Deleted

§ 9.10.5 5 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Requisition for Payment.

The making of final payment shall, after the Date of Substantial Completion of the Project, constitute a waiver of all claims by the Owner except those arising from:

1. Unsettled claims,

2. Faulty or defective work appearing after Substantial Completion of work,

3. Failure of the work to comply with the requirements of the Contract Documents,

4. Terms of any special warranties required by the Contract Documents; and

5. Reasonable attorney's fees, court costs, and litigation expenses incurred by the Owner in prosecuting any such claims against the Contractor or in defending against any claims against the Owner arising out of the Contract and the work thereunder.

#### **ARTICLE 10** PROTECTION OF PERSONS AND PROPERTY

#### § 10.1 SAFETY PRECAUTIONS AND PROGRAMS

The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract.

#### § 10.2 SAFETY OF PERSONS AND PROPERTY, INJURY OR DAMAGE TO PERSON OR PROPERTY

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and

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.3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.

§ 10.2.3 The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2., except damage or loss attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not load or permit any part of the construction site to be loaded so as to endanger its safety or the safety of persons or property. The Contractor shall protect adjoining properties, streets, walkways, sidewalks, and paths.

10.2.8 The Contract shall protect excavation and structures from damage by rain, water, ground water, or water from any other source. The Contract shall use tarpaulins, pumps, or other temporary protection to afford protection.

10.2.9 The Contractor shall provide constant protection to maintain work, materials, apparatus, and fixtures free from injury and damage by rain, snow, wind, storms, frost, or heat and shall cover work likely to be damaged at the end of each day's work.

10.2.10 The Contractor shall remove work damaged due to failure to provide specified protection and replace such removed work at no additional cost to the Owner.

10.2.11 Material Safety Data Sheets: Contractor shall provide Material and Data Safety Sheets on all items prior to commencement of Work. The Contractor shall designate a common location on the construction site where all independent contractors or employers shall have a chemical information list before the commencement of work.

#### § 10.2.8 INJURY OR DAMAGE TO PERSON OR PROPERTY (Paragraph deleted)

### § 10.3 HAZARDOUS MATERIALS

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§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl

(PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Architect in writing.

§ 10.3.2 The Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to verify that it has been rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless. Work in the affected area shall resume upon written agreement of the Owner and Contractor. The Contract Time shall be extended appropriately.

§ 10.3.3 The Owner shall not be responsible under this Section 10.3 for materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents.

#### (Paragraphs deleted) § 10.4 EMERGENCIES

(Paragraph deleted)

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§ 10.4.1 In any case of an emergency, the Contractor shall immediately notify the Architect and the Owner by the most expeditious means available, followed by a Fax, or written notice, explaining the situation and actions taken.

§ 10.4.2 Additional compensation or extension of time will not be considered or permitted for emergencies arising from delay, damage, or loss as stipulated in 8.2.4 and 10.2.5 or other applicable provisions.

#### INSURANCE AND BONDS ARTICLE 11

#### § 11.2 GENERAL INSURANCE REQUIREMENTS

\$11.2.1 The Contractor shall not commence Work until the Contractor has obtained at the Contractor's own expense all of the insurance as required under this Contract and until such insurance has been approved by the Owner. The Contractor shall not allow any Subcontractor to commence work on any subcontract until all insurance required of the Subcontractor has been so obtained and approved by the Contractor. Approval of insurance required of the Contractor will be granted only after submission to the Owner of original certificates of insurance signed by authorized representatives of the insurers or, at the Owners request, certified copies of the required insurance policies. Additionally, the Contractor must submit with the original certificates or certified policies, the enclosed Contractor's Insurance Checklist form (See Construction Insurance Check List attached to and incorporated into this Contract as Exhibit A.) completed by the Contractor and each of the Contractor's Insurance Agents or Contractor's Insurers (one form for each agent or insurer if multiple agents or insurers write the Contractor's coverages).

§11.2.2 Insurance as required under this Contract shall be in force throughout the term of this Contract and for two years after final acceptance of the Project by Owner. Original certificated signed by authorized representatives of the insurers or, at the Owner's request, certificated copies of insurance policies, evidencing that the required insurance is in effect, shall be maintained with the Owner throughout the term of the Contract and for two years after final acceptance of the Project by Owner.

\$11.2.3 The Contractor shall require all Subcontractors to maintain during the term of the Contract commercial general liability insurance, business auto liability insurance, and workers compensation and employers liability insurance and umbrella excess or excess liability insurance to the same extent required of Contractor in Sections 11.3.1.1 through 11.3.1.4 of this Contract unless any such requirement is expressly waived or amended by the Owner

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in writing. The Contractor shall furnish Subcontractor's certificates of insurance to the Owner immediately upon request.

**\$11.2.4** All insurance policies required under this Contract shall be endorsed to provide that the policy is not subject to cancellation, non-renewal, or material reduction in coverage until sixty (60) days prior written notice has been given to the Owner. Therefore, the phrases "endeavor to" and "...but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" are to be eliminated from the cancellation provision of standard ACORD certificates of insurance.

\$11,2,5 Acceptance and/or approval of any insurance by the Owner shall not be construed as relieving or excusing the Contractor or the Contractor's Surety from any liability or obligation imposed upon either or both of them by the provisions of this Contract or the Contract documents.

§11,2.6 If the contractor does not meet the insurance requirements of this Contract, the Contractor shall be in default under this Contract, and all default remedies shall be available to the Owner; moreover, no Work shall commence without such insurance, and, if Work has commenced, it shall cease immediately until the insurance requirements have been met or unless the Owner orders in writing that Work shall commence with specified alternate insurance as determined in the sole and absolute discretion of the Owner and set forth in the written order to commence or return to work signed by the Owner. The Contractor may forward a written request to the Owner for a waiver in writing of the insurance requirement(s) not met or for approval in writing of alternate insurance coverage, self-insurance, or group self-insurance arrangements. If the Owner denies the request, the Contractor shall comply with the insurance requirements as specified in this Contract or be held in default under this Contract. The Owner shall have the sole and absolute discretion to grant or deny such a request for a waiver, and the Owner's decision shall be final and binding upon all parties and shall not be subject to appeal or review.

\$11.2.7 All required insurance coverages must be underwritten by insurers licensed to do business in the State of Maryland and acceptable to the Owner. The insurers must also have a policyholders' rating of "A" or better, and a financial size of "Class VII" or better in the latest evaluation by A.M. Best company, unless Owner grants specific written approval for an exception. The Owner hereby grants specific approval for the acquisition of workers compensation and employers liability insurance from the Injured Workers Insurance Fund of Maryland.

\$11.2.8 Any deductibles or retentions in excess of \$10,000 shall be disclosed by the Contractor and shall be subject to Owner's written approval. Any deductible or retention amounts elected by the Contractor or imposed by the Contractor's insurer(s) shall be the sole responsibility of the Contractor.

\$11.2.9 Any and all return premiums and/or dividends for insurance or coverage directly charged to the Owner by the Contractor in connection with this Contract shall belong to and be payable to the Owner.

§11.2.10 If the Owner is damaged by the failure or neglect of the Contractor to purchase and maintain insurance as described and required in this Contract, then the Contractor shall be in default under this Contract, shall bear all liability for all damages incurred, and shall be subject to the remedies under Article 14.

#### § 11.2.11Owner's Liability Insurance

\$11.2.11.1 Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance, or solely at the Owner's option, the Owner may self-insure the Owner's liability exposures.

#### §11. 3 Contractor's Liability Insurance

§ 11.3.1 The Contractor shall purchase and maintain the following insurance coverages which will insure against claims which may arise out of or result from the Contractor's operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone, directly or indirectly, employed by any of them, or by anyone for whose acts any of them may be liable. Insurance shall be written for not less than the limits specified below or required by law, whichever is greater.

#### (Paragraph deleted)

§11.3.2 Commercial general liability insurance or its equivalent for bodily injury, personal injury and property damage including loss of use, with minimum limits of:

#### \$ 1,000,000 each occurrence;

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\$ 1,000,000 personal and advertising injury;

- \$ 2,000,000 general aggregate; and
- \$ 2,000,000 products/completed operations

aggregate.

This insurance shall include coverage for all of the following:

- i. General aggregate limit applying on a per project basis;
- Liability arising from premises and operations; ii.
- iii. Liability arising from the actions of independent contractors;
- iv. Liability arising from products and completed operations with such coverage to be maintained for two years after final acceptance of the project by the Owner;
- Contractual liability including protection for the Contractor from bodily injury and property damage v. claims arising out of liability assumed under this Contract; and
- Liability arising from the explosion, collapse, or underground (XCU) hazards. vi.

**§11.3.3** Business auto liability insurance or its equivalent with a minimum limit of \$1,000,000 per accident and including coverage for all of the following:

- i. Liability arising out of the ownership, maintenance, or use of any auto; and
- ii. Automobile contractual liability.

#### (Paragraphs deleted)

\$11.3.4 Workers compensation insurance or its equivalent with statutory benefits as required by any state or Federal law, including standard "other states" coverage; employers liability insurance or its equivalent with minimum limits of:

- \$ 100,000 each accident for bodily injury by accident
- \$ 100,000 each employee for bodily injury by disease; and
- \$ 500,000 policy limit for bodily injury by disease.

\$11.3.5 Contractor's pollution liability insurance or its equivalent for bodily injury, property damage, including loss of use, and clean-up costs on and off the Project site, with minimum limits of:

- \$ 1,000,000 each pollution incident; and
- \$ 1,000,000 annual aggregate.

The insurance shall include coverage for all of the following:

- Liability arising from activities of the Contractor or of others for whom the Contractor is legally i. obligated whether on or off the Project site; and
- ii. Contractual liability including protection for the Contractor from claims for bodily injury, property damage, and clean-up costs arising out of liability assumed under this Contract.

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**11.3.6** Umbrella excess liability or excess liability insurance or its equivalent with minimum limits of:

- 5,000,000 occurrence; \$
- \$ 5,000,000 aggregate for other than products/completed operations and auto liability; and
- \$ 5,000,000 products/completed operations aggregate

and including all of the following coverages on the applicable schedule of underlying insurance:

- Commercial general liability; i.
- ii. Business auto liability; and
- iii. Employer's liability.

#### (Paragraph deleted)

§11.3.7 Owner and Owner's elected and appointed officials, officers, consultants, agents and employees shall be named as additional insureds on the Contractor's commercial general liability insurance and umbrella excess or excess liability insurance policies with respect to liability arising out of the Contractor's products, installation, and/or services provided under this Contract. Such coverage shall extend to cover the additional insured(s) for liability arising out of the following:

- i. On-going operations;
- ii. Owner's general supervision of installation and/or services as provided by the Contractor and/or its agents and subcontractors pursuant to this Contract; and
- iii. Products and completed operations.

The commercial general liability policy and the umbrella excess liability or excess liability policies must include additional insured language, which shall afford liability coverage for all of the exposures listed above in i., ii., and iii., as follows:

"This policy is amended to include as insureds Owner and Owner's elected and appointed officials, officers, consultants, agents, and employees, but only for liability arising out of "your product" and "your work" for Owner by or for you."

Special Note: ISO forms CG 2009 and CG 2010 entitled "Additional Insured - Owners, Lessees or Contractors - Scheduled Person or Organization" (previously Forms A and B respectively) and CG 2033 entitled "Additional Insured - Owners, Lessees or Contractors - Automatic Status When Required in Construction Agreement with You" are NOT ACCEPTABLE. A manuscript endorsement with the above wording is required.

\$ 11.3.8 Insurance or self-insurance provided to the Owner and Owner's elected and appointed officials, officers, consultants, agents and employees under the Contractor's liability insurance or self-insurance required in this Contract, including, but not limited to, umbrella and excess liability or excess liability policies, shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of insurance or self-insurance. (Any cross suits or cross liability exclusion shall be deleted from Contractor's liability insurance policies required herein.)

#### (Paragraph deleted)

§11.3.9 Any insurance or self-insurance required to be provided by the Owner and Owner's elected and appointed officials, officers, consultants, agents, and employees shall be primary, and any other insurance, self-insurance, coverage or indemnity available to the Owner and Owner's elected and appointed officials, officers, consultants,

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agents, and employees shall be excess of and non-contributory with insurance or self-insurance provided to the Owner and Owner's elected and appointed officials, officers, consultants, agents, and employees.

#### (Paragraph deleted)

§11.3.10 If any liability insurance purchased by the Contractor has been issued on a "claims made" basis, the Contractor shall comply with the following additional conditions:

- i. The Contractor shall agree to provide certificates of insurance evidencing the above coverages for a period of two years after final payment for the Contract. Such certificates shall evidence a retroactive date no later than the beginning of the Work under this Contract; or
- ii. The Contractor shall purchase an extended (minimum two years) reporting period endorsement for each such "claims made" policy in force as of the date of final acceptance of the project by the Owner and evidence the purchase of this extended reporting period endorsement by means of a certificate of insurance or a copy of the endorsement itself. Such certificate or copy of the endorsement shall evidence a retroactive date no later than the beginning of the Work under this Contract.

#### \$ 11.4 Builders Risk Insurance (Owner to Purchase)

#### (Paragraphs deleted)

11.4.1 The Owner shall purchase and maintain builders risk insurance on a replacement cost basis with a limit at least equal to the initial Contract Sum. This insurance shall be maintained until final acceptance of the Project by the Owner or until no person or entity other than the Owner has an insurable interest in the covered property, whichever is earlier. This builders risk insurance shall include the interests of the Owner, Subcontractors and Sub-subcontractors in the Project.

\$11.4.2 Insurance shall be on an "all-risk" or equivalent policy form and shall insure against the perils of fire, extended coverage, theft, vandalism, malicious mischief, collapse and windstorm. Coverage is to apply for debris removal, including demolition occasioned by a covered loss. This insurance shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such covered loss. Coverage for other perils such as flood and earthquake or for loss caused by the enforcement of any applicable ordinance or law shall not be required unless otherwise provided in the Contract.

(Paragraph deleted)

§ 11.4.3 This builders risk insurance shall cover all of the following types of property:

- i. All structures to be constructed, under construction, and/or already constructed;
- ii. All materials, equipment, machinery and supplies which are to be incorporated into the Project;
- iii. Temporary structures of any nature whatsoever; and
- Underground property, including but not limited to, foundations, pump stations, pumps, pipes, iv. drains, tanks and connections.

\$11.4.4 The Contractor shall be responsible for payment of any deductibles applicable under this builders risk insurance, boiler and machinery insurance, or other property insurance applicable to the Project.

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#### (Paragraph deleted)

11.4.5 Unless otherwise provided in the Contract Documents, this builders risk insurance shall cover materials to be incorporated into the Project, which are either on or off the site, and also such materials in transit.

#### (Paragraph deleted)

11.4.6 This builders risk insurance shall insure (or shall be amended to insure) against loss or damage caused by the boiler and machinery perils with limits and scope of coverage that are deemed by the Owner to be satisfactory. This insurance shall also include the interests of the Owner, Contractor, Subcontractors, and Sub-subcontractors in the Project.

#### (Paragraph deleted)

\$11.4.7 The Owner and Contractor waive all rights against each other and against the Construction Manager, Owner's other Contractors and own forces described in Article 6, if any, and the subcontractors, sub-subcontractors, (elected and appointed officials, officers, directors, trustees, agents, employees and consultants) of any of them for property damage to or loss of use of the Work to the extent that such property damage or loss of use is covered by this builders risk insurance, boiler and machinery insurance, or other property insurance applicable to the Work. The policies shall provide such waivers of subrogation by endorsement or otherwise.

#### (Paragraph deleted)

§11.4.8 Any loss covered under this builders risk insurance, boiler and machinery insurance, or other property insurance applicable to the Work shall be payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to any mortgagee clause. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner.

#### (Paragraphs deleted) § 11.4.9 Owner, as fiduciary, shall have the power to adjust and settle a loss with insurers.

#### (Paragraphs deleted)

\$11.4.10 Partial occupancy or use in accordance with the provisions of the Contract that pertain to partial occupancy or use shall not commence until the builders risk insurer has granted permission by endorsement or otherwise for the Owner to partially occupy or use any completed or partially completed portion of the Work at any stage of construction. The Owner and Contractor shall take reasonable steps to obtain such permission.

**§11.4.11** The insurance required by this Paragraph 11.4 is not intended to cover machinery, tools, or equipment owned or rented by the Contractor or its Subcontractors, which are utilized in the performance of the Work but not incorporated into the permanent improvements. The Contractor and its Subcontractors shall, at their own expense, purchase and maintain property insurance coverage for owned, leased, or rented machinery, tools or equipment. The Contractor and its Subcontractors hereby waive all rights against the Owner and its elected and appointed officials, officers, agents, employees, and consultants for property damage to or loss of use of such machinery, tools, or equipment. The policies shall provide such waivers of subrogation by endorsement or otherwise.

#### **§11.5 Miscellaneous Insurance**

**§11.5.1** The Contractor shall comply with the provisions of Federal law governing Social Security and with State and/or Federal laws regarding Unemployment Insurance, and all other State and/or Federal laws regarding insurance, as may be now and hereafter in force. The Contractor shall bear exclusive and sole liability for and will hold the Owner harmless against any and all demands for any required payments, taxes, or withholdings (including any interest or penalties assessed thereon) for the Contractor's (or any of its Subcontractor's) failure or refusal to comply with any such laws. Failure to comply shall be deemed a default subject to the remedies of Article 14.2.

### **§ 11.6 PERFORMANCE BOND AND PAYMENT BOND**

§ 11.6.1 The Contractor shall furnish a Performance Bond and Labor and Materials Payment Bond covering the faithful performance of the Contract and the payment of all obligations arising thereunder and complying with the requirements of Maryland Law. Both bonds shall be in the amount of one hundred percent (100%) of the Contract amount and shall name the Howard County Board of Education as Obligee.

#### § 11.6.2

Bonds shall be written by a bonding company that must be licensed with the Maryland Insurance Administration to do business in the State of Maryland and otherwise acceptable to the Howard County Public School System. The Contractor shall use Bond Forms provided by the Owner AIA 312 Performance Bond and AIA 312 Labor and Material Payment Bond, in order to satisfy the Bond requirements referenced in this Article.

§ 11.6.3 Firms issuing said bonds must be licensed to write bonds in the State of Maryland. The Contractor shall pay the premiums for required bonds. Obtainage of the required bonds by Contractor shall be a condition precedent to effectuation of the Contract between Owner and Contractor. If additional work is authorized, the amounts of the bonds shall be increased to cover the value of the increased Contract sum. All bonds shall conform to the requirements of the Maryland Little Miller Act. All bonds shall be subject to Owner's approval.

§ 11.3.4 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall permit a copy to be made.

### (Paragraphs deleted)

§ 11.3.5 Owner reserves the right to request from Contractor financial statements for the Contractor for up to 3 prior fiscal years.

**§ 11.3.6** To protect the public interest the Owner will request a D & B report on the Contractor at any time during the term of the project. Should the D & B rating fall below the awarded rating, Contractor shall advise Owner of their corrective measures.

## ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

### § 12.1 UNCOVERING OF WORK

§ 12.1.1 If any portion of the Work is covered contrary to the request of the Architect, or the requirements specifically expressed in the Contract Documents, it must, if required in writing by either, the Owner or any other government agency, be uncovered for their observation and shall be replaced at the Contractor's expense without change in the Contract Time If a portion of the Work is covered contrary to the Architect's request or to requirements specifically

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expressed in the Contract Documents, it must, if required in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, such costs and the cost of correction shall be at the Contractor's expense.

#### § 12.2 CORRECTION OF WORK

§12.2.1 Defective work shall include but not be limited to Work which may be caused by deterioration or failure to perform due to premature wear (not occasioned by abuse) or inherent defects in materials, workmanship of manufacturer or fabrication or improper execution of work

§12.2.2 Cost of correcting such rejected work also includes all contingent damages arising there from including damages to other work (whether installed by the Contractor or another) and to other property of the Owner.

\$12.2.3Such warranties as provided herein do not deprive the Owner of the Owner's right to prosecute any claim for breach of contract and/or any other claim for appropriate relief and damages.

\$12.2.4 Any defective or nonconforming work during this period causing a hazard to life, safety, property, or use causing the Owner a financial loss shall be corrected immediately without regard to normal working hours. The Owner will immediately endeavor to provide telephone notice to the Contractor on the next normal working day.

§ 12.2.5 The Owner shall direct, if endeavors to contact the Contractor fail, certain telephone notification to Subcontractors in order to expedite emergency repairs. The Contractor shall not be relieved of responsibility by the procedure, and the Contractor shall supervise and direct correction of defects as required by the Contract Documents.

\$12.2.6 The manufacturer of a product may be specifically mentioned as a party to a warranty. Then in such cases, it shall be the Contractor's obligation to produce the required warranty of the manufacturer and submit it to the Architect for examination and approval. Inclusion of a manufacturer as a party to a warranty does not relieve the Contractor from the requirements of the Contract Documents.

\$12.2.7 Warranties on operating systems, equipment, or components placed in operation prior to Substantial Completion or acceptance shall begin on the date of Substantial Completion.

#### § 12.2.1 BEFORE OR AFTER SUBSTANTIAL COMPLETION

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

#### § 12.2.2 AFTER SUBSTANTIAL COMPLETION

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it

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promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.4.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

#### (Paragraphs deleted)

§ 12.2.2.4 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.2.5 The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.2.6 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

#### § 12.3 ACCEPTANCE OF NONCONFORMING WORK

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

#### **ARTICLE 13 MISCELLANEOUS PROVISIONS**

#### § 13.1 GOVERNING LAW

The Contract shall be governed by the laws of the State of Maryland and shall be construed in accordance with such laws.

#### § 13.2 SUCCESSORS AND ASSIGNS

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to covenants, agreements and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

#### § 13.3 WRITTEN NOTICE

\$13.3.1 Written notice shall be deemed to have been duly served if delivered in person to the individual, to a member of the firm or entity, or to an officer of the corporation for which it was intended; or if delivered at, or sent by registered

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or certified mail or by courier service providing proof of delivery to, the last business address known to the party giving notice.

\$13.3.2 All Contractor proposals, approvals, instruction, requests, claims, demands, and other notices shall be made in writing on Contractor's stationery: meeting minutes and FAX transmissions will not be considered written notice from Contractor.

#### § 13.4 RIGHTS AND REMEDIES

§ 13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

#### (Paragraph deleted)

\$13.4.2 In any claim and/or litigation filed by the Owner against the Contractor to enforce any provision of this Contract, the Owner shall be entitled to all reasonable attorney's fees, expenses, damages, litigation expenses, and court costs incurred in and/or resulting from any such claim and/or litigation. In any claim and/or litigation brought by the Contractor against the Owner and/or its agents, the Contractor shall bear the Owner's court costs, expenses, and reasonable attorney's fees incurred, unless the Court specifically determines as a matter of fact and law that the Owner, knowingly, willfully, and intentionally breached a provision of this Contract giving rise to Contractor's claim and resulting damages

§ 13.4.3 No action or failure to act by the Owner, Architect or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

#### § 13.5 TESTS AND INSPECTIONS

§ 13.5.1 Tests, inspections and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures.

§ 13.5.2 If the Architect, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure including those of repeated procedures and compensation for the Architect's services and expenses shall be at the Contractor's expense.

§ 13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.5.5 If the Architect is to observe tests, inspections or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

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§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

### § 13.6 INTEREST

§ 13.6.1 No interest shall be paid by the Owner to the Contractor.

#### § 13.7 TIME LIMITS ON CLAIMS, COMMENCEMENT OF STATUTORY LIMITATION PERIOD

§ 13.7.1 Contractor recognized and agrees that Owner is a governmental agency and that the statute of limitations is not applicable to claims and/or litigation filed by the Owner. Limitations as to time for filing of any claims, disputes, and/or litigation by the Contractor, or any person or entity claiming by, through, or on behalf of the Contractor, shall be as specified in Article 15.

#### **13.8 BUY AMERICAN STEEL**

\$13.8.1 Contractor shall comply with the Buy American Steel Act Sections 17–301 to 17-306 of the Finance and Procurement Article of the Annotated Code of Maryland.

**\$13.8.2** Contractor shall be required to use or supply the domestic steel products unless the cost is unreasonable or inconsistent with the public interest.

#### ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT § 14.1 TERMINATION BY THE CONTRACTOR

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be .1 stopped;

An act of government, such as a declaration of national emergency that requires all Work to be stopped; .2 (Paragraphs deleted)

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' written notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed.

#### (Paragraph deleted)

#### § 14.2 TERMINATION BY THE OWNER FOR CAUSE

§ 14.2.1 The Owner may terminate the Contractor's employment under this Contract if the Contractor:

- .1 persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- persistently disregards laws, ordinances, or rules, regulations or orders of a public authority having .3 jurisdiction; or
- otherwise is guilty of substantial breach of a provision of the Contract Documents such as, but not .4 limited to:
- (1) Failure to maintain progress in accordance with project schedule;
- (2) Prevents other Contractors from meeting their scheduled progress;
- (3) Performs work in a negligent or defective manner or in a manner contrary to the Contractor Documents;
- (4) Failure to provide and maintain the required insurance coverage and the required bonds;
- (5) Filing of bankruptcy proceedings by or against the Contractor and/or the filing of an assignment for the benefit of Contractor's creditors; and/or

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(6) Breach of any provision of the Contract Documents.

§ 14.2.2 When any of the above reasons exist, the Owner, may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- .1 take possession of the site and of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- .2 accept assignment of subcontracts pursuant to Section 5.4; and
- .3 finish the Work by whatever reasonable method the Owner may deem expedient.

.4 When the Owner terminated the Contractor for one of the reasons stated in Subparagraph 14.2.1 and invokes the Performance Bond to complete the Work, the surety shall not without the written consent of the Owner, retain the Contractor for the Work, and the Contractor shall not without written consent of the Owner perform any of the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished. In the event the Owner elects to terminate the Contractor's employment under this Contract, the Contractor shall only be entitled to be paid for work under the Contract actually completed by the Contractor up to the date of Contractor's termination less deductions for

(1) the cost of correcting any deficient or defective work, including compensation for the Construction Manager and Architect and their respective consultants' additional services and expenses made necessary by the Contractor's defective work, default, neglect, or failure to perform under this Contract;

(2) damages incurred by the Owner as a result of the Contractor's breach, including but not limited to the costs to finish the work and damages for delay, if any, in completing the work under the Contract;

(3) actual reasonable attorney's fees incurred by the Owner in obtaining legal advice, counsel, and/or representation relating to the issues of Contractor's breach of contract, defective work, default, neglect, or failure to perform and Owner's legal options relating thereto as well as any other reasonable attorney's fees due to Owner under other provisions of this Contract; and

(4) such other amounts due and owing to Owner under the terms and conditions of the Contract documents. In the event the Contractor is terminated pursuant to Article 14.2. the Contractor shall not be entitled to any remaining funds under the Contract, except as specifically provided above and subject to the availability of funds after all work is completed.

All remaining unpaid funds in the Contract as of the date of Contractor's termination shall be the sole and exclusive property of the Owner, and the Contractor shall be paid by the Owner at the conclusion of all work under the Contract as provided above, but only to the extent that there are funds remaining after all payments have been made first to complete the work under the Contract and to compensate the Owner as provided above in the(4) enumerated deductions in this Article 14.2.3. Any funds still remaining after payment for all work and after payment of the Contractor as provided above shall be the sole and exclusive property of the Owner.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and payment of the four (4) enumerated deductions in Article 14.2.3 other damages incurred by the Owner and not expressly waived, such excess shall be the sole and exclusive property of the Owner. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor if any, for work completed by the Contractor 9less the deductibles provided in Paragraph 14.2.3) shall be determined by the Owner, and this obligation for payment shall survive termination of the Contract.

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#### § 14.3 SUSPENSION BY THE OWNER FOR CONVENIENCE

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

#### (Paragraphs deleted)

#### § 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- cease operations as directed by the Owner in the notice; .1
- .2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- except for Work directed to be performed prior to the effective date of termination stated in the notice, .3 terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

#### **ARTICLE 15** CLAIMS AND DISPUTES

#### § 15.1 CLAIMS

§ 15.1.1 Definition. A Claim is a demand or assertion by one of the parties seeking, as a matter of right, adjustment or interpretation of Contract terms, payment of money, extension of time or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor ( and any person or entity claiming by, through, or on behalf of Contractor) arising out of or relating to the Contract. Claims must be initiated by written notice, on Contractor's stationary. Meeting minutes and Fax transmissions from the Contractor will not be considered written notice. The responsibility to substantiate Claims shall rest with the party making the Claim.

§ 15.1.2 Decision of Architect. Any claim, dispute, or other matter in guestion between the Contractor and the Owner shall be made in writing to the Architect except those relating to artistic effect as provided in Subparagraph 4.2.13 and those which have been waived by the making or acceptance of final payment as provided in Article 9. The Architect shall provide each party with ample opportunity to present its evidence with respect to the claim made, and the Architect shall render his decision on the claim not less than ten (10) days after the close of evidence before the Architect. The decision of the Architect may be appealed by litigation in the Circuit Court of Howard County as provided below. However, no litigation of any such claim, dispute or other matter may be made until the earlier of (1) the date on which the Architect has rendered a written decision, or (2) the eleventh day after the parties have presented their evidence to the Architect or have been given a reasonable opportunity to do so, if the Architect has not rendered a written decision by that date. With respect to all claims and/or disputes, the final written decision of the Architect shall be final and binding on the parties and on those claiming by, through, and/or on behalf of any such party, person, or entity who had the right to do so, and failed to do so, unless the final written decision of the Architect as to any such claim and/or dispute is appealed to the Circuit Court for Howard County by a party within thirty (30) days after having received the Architect's final written decision. In any such appeal of the Architect's final written decision, it shall be presumed that the Architect's decision is correct, and the Architect's decision shall be treated and regarded in the same manner in which an arbitrator's award would be treated and regarded by a Maryland court under Maryland's Uniform Arbitration Act, subject, however, to the procedural requirements specified in the Contract documents. The failure to appeal the Architect's final written decision within the aforementioned thirty (30) day period shall result in the said decision becoming final and binding on all parties as provided above. The Circuit Court for Howard County, Maryland, shall be the sole and exclusive jurisdiction for appealing any final written decision of the Architect. If the Architect renders a decision after litigation proceedings have been filed, such decision may be entered as evidence but will not supersede any litigation proceedings unless the decision is acceptable to all parties concerned.

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§ 15.1.3 Time Limits on Claims. Claims by either party must be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later. Claims must be initiated by written notice to the Architect and the other party.

§ 15.1.4 Continuing Contract Performance. Pending final resolution of a Claim except as otherwise agreed in writing, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents. Except the Owner may withhold payment to the extent reasonably necessary to secure or compensate for a claim. This Article 15.1.4 shall not apply if the Owner has terminated the Contractor's employment pursuant to

.§ 15.1.5 Claims for Concealed or Unknown Conditions. If conditions are encountered at the site which are (1) subsurface or otherwise concealed physical conditions which differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature, which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, then notice by the observing party shall be given to the other party promptly before conditions are disturbed and in no event later than 21 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend an equitable adjustment in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall so notify the Owner and Contractor in writing, stating the reasons. Claims by either party in opposition to such determination must be made within 21 days after the Architect has given notice of the decision. If the conditions encountered are materially different, the Contract Sum and Contract Time shall be equitably adjusted, but if the Owner and Contractor cannot agree on an adjustment in the Contract Sum or Contract Time, the adjustment shall be referred to the Architect for initial determination, subject to further proceedings pursuant to Section 4.4.

(Paragraphs deleted)

#### § 15.1.6

#### (Paragraphs deleted)

Claims for Additional Cost. If the Contractor wishes to make Claim for an increase in the Contract Sum, written notice as provided herein shall be given before proceeding to execute the Work. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4

§ 15.1.7 If the Contractor believes additional cost is involved for reasons including but not limited to (1) a written interpretation from the Architect, (2) an order by the Owner to stop the Work where the Contractor was not at fault, (3) a written order for a minor change in the Work issued by the Architect, (4) failure of payment by the Owner, (5) termination of the Contract by the Owner, (6) Owner's suspension or (7) other reasonable grounds, Claim shall be filed in accordance with this Section 15.1

#### § 15.1.8 Claims for Additional Time

§ 15.1.8.1 If the Contractor wishes to make Claim for an increase in the Contract Time, written notice shall be made in writing to the Architect not more than twenty-one (21) days after the commencement of the delay, otherwise it shall be waived.

§ 15.1.8.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction. In establishing the time of construction completion, the weather conditions as recorded by the National Oceanic Atmospheric Administration (NOAA) at the National Climatic Data Center, Ashville, North Carolina over the past five (5) years will be taken into consideration. No extension of time, due to weather conditions, will be considered unless accompanied by NOAA documentary evidence showing by comparison that such weather is abnormal to the statistical mean of the past five (5) years and that such abnormality caused the delay.

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\$ 15.1.8.3 Injury or Damage to Person or Property. If either party to the Contract suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

#### § 15.2 RESOLUTION OF CLAIMS AND DISPUTES

#### § 15.2.1 Litigation

§ 15.2.1 Any Claim arising out of or related to the Contract. Any controversy or Claim arising out of or related to the Contract, or the breach thereof, shall be resolved finally by litigation in the Circuit Court of Howard County, Maryland, provided, however, that the provisions of this Article 15.2.1 authorizing litigation in court shall not be exercised by any party until the provisions of Article 15.1.2 shall have been complied with and exhausted. No party shall be entitled to litigate any dispute and/or claim unless and until that party has fully complied with the provisions of Article 15.1.1 The failure of any party to adhere to and comply with the provisions of Article 15.1.1 shall serve as a bar to that party's litigating a claim and/or dispute in court.

§ 15.2.2 Claims and Timely Assertion of Claims. Since the Owner is a public body, politic and corporate, its claims shall not be barred by any contractual period of limitations or by any statute of limitations. Claims by the Contractor shall be filed as provided in Article 15 (Claims and Disputes), and the time limits prescribed in Article 15 shall serve as a limitation upon filing of any and all claims and/or litigation by the Contractor and/or any person or entity claiming by, through, or on behalf of the C§15.2 Policies of Employment.

#### **15.3 Policies of Employment.**

(Paragraphs deleted)

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#### \$15.3.1 The Contractor shall maintain policies on employment as follows:

1. The Contractor and all Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin or age. The Contractor shall take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, religion, sex, national origin, or age. Such action shall include but not be limited to the following:

Employment, upgrading demotion or transfer, recruitment or recruitment advertising layoff or termination rates or pay or other forms of compensation and selection for training including apprenticeship.

The Contractor shall post in conspicuous places available to employees and applicants for employment notices setting forth the policies of non-discrimination.

§15.3.2 The Contractor and all Subcontractors shall in all solicitations or advertisements for employees placed by them or on their behalf state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex, national origin, or age.

\$15.3.3 Minority Business Enterprise (MBE) Requirements are a part of the Conditions of the Contract, including Exhibits A, B, and C included with Form of Proposal.

# EXHIBIT A

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# **1. Commercial General Liability**

Insurer (precise name as per policy, not group name) **Best's Rating and Financial Size** 

Each Occurrence Limit Personal and Advertising Injury Limit General Aggregate Limit Products/Completed Operations Aggregate Limit

Occurrence Basis	yes	no
General Aggregate Limit applies Per Project	yes	no
Premises/Operations	yes	no
Actions of Independent Contractors	yes	no
Products/Completed Operations	yes	no
Contractual Liability	yes	no
Explosion, Collapse or Underground (XCU) Hazards	yes	no
Owner included as an additional insured	yes	no
Individuals related to Owner included as additional insureds	yes	no
Manuscript additional insured wording per insurance requirements	yes	no
If no, additional insured coverage extends to cover liability arising out of:		
Owner's general supervision	yes	no
Products and completed operations	yes	no
Specimen of additional insured wording attached if other than		
manuscript wording in the insurance requirements	yes	no
No cross suits or cross liability exclusion	yes	no
Coverage for additional insureds is primary to Owner's coverage	yes	no
60 days notice of cancellation, nonrenewal, etc. Amount of Retention or Deductible	yes	no
Specify if Retention or Deductible applies per occurrence or claim		

# 2. Business Auto Liability

Insurer (precise name as per policy, not group name)		
Best's Rating and Financial Size		
Each Accident Limit		
Any Auto (or Hired and Non-owned Autos, if no owned autos)	yes	no
Contractual Liability	yes	no
60 days notice of cancellation, nonrenewal, etc.	yes	no
Amount of Retention or Deductible		
Specify if Retention or Deductible applies per accident or claim		

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3. Wor	kers Compensation and Employers	Liability			
	Insurer (precise name as per policy, i	-			
	Best's Rating and Financial Size	lot group hame)			
	Statutory benefits as required by stat	e or Federal law		yes	no
	"Other States" coverage			yes	no
	Employers liability			yes	no
	Each accident limit				
	Each employee limit-disease Policy limit-disease				
	60 days notice of cancellation, etc.			yes	no
	Amount of Retention or Deductible			<b>,</b>	
	Specify if Retention or Deductible app	olies per accident or cla	im		
4. Con	tractors Pollution Liability				
	Insurer (precise name as per policy, i	not aroun name)			
	Best's Rating and Financial Size	iot group name,			
	Each Pollution Incident Limit				
	Annual Aggregate Limit				
	Other Limit(s)				
	Coverage Form:	Claims Made	Occurrence		
	Covers Operations of Both Contracto	r and Subcontractors		yes	no
	Contractual Liability			yes	no
	60 days notice of cancellation, nonrel	newal, etc.		yes	no
	Amount of Retention or Deductible				
	Specify if Retention or Deductible app	blies per occurrence or o	claim		
5. Umt	orella Excess or Excess Liability				
	Insurer (precise name as per policy, r	not group name)			
	Best's Rating and Financial Size				
	Coverage Form:	Umbrella and Excess	Straig	ht Excess	
	Each Occurrence Limit				
	General Aggregate Limit (for other the	an products/completed			
	operations and auto liability)				
	Products/Completed Operations Agg	regate Limit			
	Underlying Schedule of Insurance inc	ludes:			
	Commercial General Liability			yes	no
	Business Auto Liability			yes	no
	Employers Liability			yes	no
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Owner included as an additional insured	yes	no
Individuals related to Owner included as additional insureds	yes	no
Manuscript additional insured wording per insurance requirements	yes	no
If no, additional insured coverage extends to cover liability arising out of:	-	
Owner's general supervision	yes	no
Products and completed operations	yes	no
Specimen of additional insured wording attached if other than	•	
manuscript wording in the insurance requirements	yes	no
No cross suits or cross liability exclusion	yes	no
Coverage for additional insureds is primary to Owner's coverage	yes	no
60 days notice of cancellation, nonrenewal, etc.	yes	no
Amount of Retention	•	
Retention applies per occurrence	yes	no
•• •	-	

### **INSURANCE AGENT'S OR INSURER'S STATEMENT**

I have reviewed the Contract's insurance requirements with the contractor named below. I hereby verify the above responses.

Name of Agent or Insurer:

Agency or Insurer Name:

Authorized Signature and Date:

Phone #:

Fax #:

E-mail:

### CONTRACTOR'S STATEMENT

If awarded the contract, I will comply with the Contract's insurance requirements. I further agree to maintain property insurance on the machinery, tools and equipment which are owned, rented or leased by my firm and which are utilized in the performance of the services rendered under this Contract.

Contractor's Name:

Authorized Signature and Date:

Phone #:

Fax #:

E-mail:

#### EXHIBIT A CHANGE ORDER REQUEST FORMAT

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PROJECT NAME:	_DATE:
GENERAL CONTRACTOR:	
SUBCONTRACTOR:	
SUB-SUBCONTRACTOR:	
C.O.R. ITEM OR WORK:	
I. DIRECT PAYROLL LESS FRINGES, INSURANCE, TAXES*:	
II. FRINGES, TAX, INSURANCE BURDEN% OF PAYROLL:%	
III. TOTAL MATERIAL COSTS**:	
IV. MATERIAL SALES TAX:	
V. EQUIPMENT RENTALS (ATTACH COPY OF INVOICE):	
VI. CONTRACTOR-OWNED EQUIPMENT**:	
VII. PROFIT AND OVERHEARD 20% OF LINES I & III:	. 4444444444444444444444444444444444444
VIII. 8% OF LINE V (ONLY WITH INVOICE COPY):	
IX. TOTAL ALL LINES:	
X. SUBCONTRACTORS COSTS (ATTACH BREAKDOWN):	
XI. 8% PROFIT & OVERHEAD ON SUBCONTRACTORS:	
XII. TOTAL LINES IX, X, & XI:	·
XIII. BOND% OF LINE XII:	
XIV. TOTAL COST OF WORK:	
*Provide Itemization of Labor Hours and Worker Classification **Provide Itemization.	
Change Order Request Format is Required for each Portion of Change Or	der Request Submission.

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#### DESCRIPTION

All change orders shall be submitted in the change order request format (see Exhibit A) as set forth below:

- 1. Attach an itemization of labor hours. A certified payroll affidavit may be required to substantiate labor rates. The cost of foreman and superintendents may be added only when the change order makes necessary the hiring of additional supervisory personnel or makes their employment for time in addition to that required by the basic contract.
- 2. Labor burden percentage costs shall include all fringes, taxes, insurance, liabilities, workmen's compensation, unemployment, and any additional cost associated as labor burdens. Labor burden percentage rates are subject to approval of the Owner and is not subject to profit and overhead.
- 3. Attach an itemization of all materials used listing unit prices and extended prices.

4. Attach an itemization of equipment used and rental rates. If equipment is a rental, attach copy of the rental invoice. equipment and contractor-owned equipment costs shall include all costs associated with the equipment, i.e. Rental transportation, set-up, gas, and oil. Rental rates shall not exceed rates established by local rental companies and "MEANS DATA" rates.

- 5. Profit and overhead shall be considered full reimbursement for any additional expenses caused by the change order work. The Contractor shall agree to 20% profit and overhead markup on work by his own forces and 8% profit and overhead mark up on Subcontractors work. Allowances for overhead shall include but not limited to the costs for use of, small tools and consumables; trucks and trucking costs; maintenance and/or operations of Contractor's regular established office, branch office, and other facilities; resident and/or non-actively engaged supervision; time keepers; clerk; stenographer; watchmen; cost of correspondence; increased item of warranty under the change.
- 6. Profit and overhead at 8% may be added to equipment which is rented.
- 7. Only the actual added costs of the bond may be added to the change order amount. No further markup shall be allowed.
- 8. Change order requests shall not be considered unless they are submitted in proper format with all required and requested supporting documentation. All portions of the change shall use the change order request format.
- For all work to be performed by a Subcontractor/Subcontractors, the Contractor shall furnish the Subcontractors itemized 9. proposal which shall contain original signatures by an authorized representative of the Subcontracting firm. If requested by the Owner or Architect, proposals from suppliers or other supporting data to substantiate the Contractor's or Subcontractor's cost shall be furnished.
- 10. On changes resulting in a credit to the Owner, the credit shall be the net cost without profit overhead and profit.

11. Change order costs shall not exceed unit pricing as provided if applicable by Contract Documents. END OF SECTION

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(Paragraph deleted)

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# **SECTION 00730**

# MINORITY BUSINESS ENTERPRISE (MBE) REQUIREMENTS

#### 1.0 PURPOSE

The purpose of the Procedures is to fulfill the intent of the law by setting goals for minority business enterprise participation in every contract that includes State funding through the Public School Construction Program. Local Educational Agencies (LEAs) shall attempt to achieve the result that a minimum of 29 percent of the total dollar value of all construction contracts is made directly or indirectly with certified minority business enterprises when State Public School Construction Program (PSCP) funds are utilized, with a minimum of 0 percent from certified African American-owned businesses, a minimum of 0 percent from certified Asian American-owned businesses, and the balance from any certified minority business enterprises. All general contractors, including certified MBE firms, when bidding as general or prime contractors are required to attempt to achieve the MBE subcontracting goals from certified MBE firms.

#### 2.0 EFFECTIVE DATE

These procedures have been adopted for use in Howard County and supersede previously utilized MBE procedures, and will take effect on or after September 18, 2008.

#### 3.0 DEFINITIONS

- 1. **Certification** means the determination that a legal entity is a minority business enterprise consistent with the intent of Subtitle 3 of the <u>State Finance and</u> <u>Procurement Article</u>.
- 2. **Certified Minority Business Enterprise** means a minority business that holds a certification issued by the Maryland State Department of Transportation (MDOT).
- 3. Corporation, as defined by MDOT, is an artificial person or legal entity created by or under the authority of the laws of any state of the United States, the District of Columbia or a territory or commonwealth of the United States and formed for the purpose of transacting business in the widest sense of that term, including not only trade and commerce, but also manufacturing, mining, banking, insurance, transportation and other forms of commercial or industry activity where the purpose of the organization is profit. For eligibility for certification, disadvantaged and/or minority individuals must own at least 51 percent of the voting stock and at least 51 percent of the aggregate of all classes of stock that have been issued by the corporation. (Note: stock held in trust is not considered as stock held by the disadvantaged businesspersons when computing the business person(s) ownership.)
- 4. **Managerial Control**, as defined by MDOT, means that a disadvantaged or minority owner(s) has the demonstrable ability to make independent and unilateral business decisions needed to guide the future and destiny of a business.

Control may be demonstrated in many ways. For a minority owner to demonstrate control, the following examples are put forth, but are not intended to be all inclusive:

- a. Articles of Incorporation, Corporate Bylaws, Partnership Agreements and other agreements shall be free of restrictive language which would dilute the minority owner's control thereby preventing the minority owner from making those decisions which affect the destiny of a business;
- b. The minority owner shall be able to show clearly through production of documents the areas of the disadvantaged business owner's control, such as, but not limited to:
  - 1) Authority to sign payroll checks and letters of credit;
  - 2) Authority to negotiate and sign for insurance and/or bonds;
  - 3) Authority to negotiate for banking services, such as establishing lines of credit; and
  - 4) Authority to negotiate and sign for contracts.
- c. Agreements for support services that do not lessen the minority owner's control of the company are permitted as long as the disadvantaged or minority business owner's authority to manage the company is not restricted or impaired.
- 5. **Minority Business Enterprise (MBE)** means any legal entity, except a joint venture, that is (a) organized to engage in commercial transactions, and (b) at least 51 percent owned and controlled by one or more individuals who are socially and economically disadvantaged including:

African Americans; American Indian/Native Americans; Asians; Hispanics; Physically or mentally disabled individuals; Women; or A non-profit entity organized to promote the interests of physically or mentally disabled individuals.

- 6. **Minority Business Enterprise Liaison** means the employee of the school system designated to administer the Minority Business Enterprise Procedures for State funded public school construction projects.
- 7. **Operational Control**, as defined by MDOT, means that the disadvantaged or minority owner(s) must possess knowledge necessary to evaluate technical aspects of the business entity. The primary consideration in determining operational control and the extent to which the disadvantaged or minority owner(s) actually operates a business will rest upon the specialties of the industry of which the business is a part. The minority owner should have a working knowledge of the technical requirements needed to operate in his/her industry. Specifically, in the construction industry and especially among small (one to five person firms) contractors, it is reasonable to expect the disadvantaged or minority owner(s) to be knowledgeable of all aspects of the business. Accordingly, in order to clarify the level of operational involvement which a minority owner must have in a business for it to be considered eligible, the following examples are put forth, but are not intended to be all inclusive:
  - a. The minority owner should have experience in the industry for which certification is being sought; and
  - b. The minority owner should demonstrate that basic decisions pertaining to the daily operations of the business are independently made. This does not necessarily preclude the disadvantaged or minority owner(s) from seeking paid or unpaid advice and assistance. It does mean that the minority owner currently

must possess the knowledge to weigh all advice given and to make an independent determination.

- 8. Ownership, as defined by MDOT, means that:
  - a. The minority owner(s) of the firm shall not be subject to any formal or informal restrictions, which limit the customary discretion of the owner(s). There shall be no restrictions through, for example, charter requirements, by-law provisions, partnership agreements, franchise or distributor agreements or any other agreements that prevent the minority owner(s), without the cooperation or vote of any non-minority, from making a business decision of the firm.
  - b. This means that the disadvantaged or minority persons, in order to acquire their ownership interests in the firm, have made real and substantial contributions of capital, expertise or other tangible personal assets derived from independently owned holdings without benefit of a transfer of assets, gift or inheritance from non-minority persons. Examples of insufficient contributions include a promise to contribute capital, a note payable to the firm or its owners who are not minority persons or the mere participation as an employee rather than as a manager. If the ownership interest held by a disadvantaged or minority person is subject to formal or informal restrictions, such as options, security interests, agreements, etc., held by a non-minority person or business entity, the options, security interests, agreements, etc., held by the non-minority person or business entity must not significantly impair the disadvantaged or minority person's ownership interest.
- 9. Partnership means an unincorporated association of two or more persons to carry on as co-owners of a business for profit. For a partnership to be deemed eligible for certification under the MDOT Program, the disadvantaged or minority person's interest must be at least 51 percent of the partnership capital.
- 10. **Socially and Economically Disadvantaged** means a citizen or lawfully admitted permanent resident of the United States who is socially disadvantaged and economically disadvantaged. The law establishes the level of personal net worth at \$1,500,000, above which an individual may not be found to be socially and economically disadvantaged.
- 11. **Sole Proprietorship**, as defined by MDOT, is a for-profit business owned and operated by a disadvantaged or minority person in his or her individual capacity. For a sole proprietorship to be deemed eligible for certification under the DBE/MBE Program, the disadvantaged or minority person must be the sole proprietor.

#### 4.0 MBE GOAL SETTING PROCEDURES

- 1. The MBE program requires that all race-neutral measures be considered before making use of race-based measures. Using a combination of race-neutral and race-based measures for each specific school construction project will help ensure that certified MBE firms are afforded the opportunity to submit bids and be utilized to the greatest extent possible.
- 2. Race-neutral measures include any action taken by the LEA to make it easier for all contractors, including MBEs, to compete successfully for public school construction project contracts.
- 3. Race-based measures include setting an overall MBE goal and MBE subgoals, if applicable, based upon race, gender, ethnicity, etc., for a specific project.

- 4. The overall MBE goal and the subgoals, if applicable, should be set for each specific project, considering but not limited to, the following factors:
  - a. The extent to which the work to be performed can reasonably be segmented to allow for MBEs to participate in the project;
  - b. A determination of the number of certified MBEs that potentially could perform the identified work;
  - c. The geographic location of the project in relationship to the identified certified MBEs;
  - d. Information obtained from other State departments/agencies related to establishing a MBE goal and/or subgoals for similar construction projects or work in the jurisdiction;
  - e. Information obtained from other State departments/agencies related to MBE participation in similar construction projects or work in the jurisdiction; and
  - f. Any other activities or information that may be identified as useful and productive.
- 5. The Superintendent or designee shall establish one or more procurement review groups (PRG). The PRG must include at a minimum the MBE liaison and the procurement officer (PO) or a representative from the procurement office. The PRG could also include a capital improvement project manager, the project architect, the cost estimator, the construction manager, and/or other individuals selected by the superintendent or designee.
  - a. The PRG should communicate and/or meet as needed to consider the MBE subcontracting goal and subgoals, if applicable, for individual projects or groups of projects.
  - b. The PRG should consider the factors cited in 4 above when establishing the MBE goal and subgoals, if applicable, for each project or segmented piece of a project that are reasonable and attainable.
  - c. The PRG must complete and submit a written analysis for each state funded school construction project with an estimated cost that is expected to exceed \$200,000.
    - i.. For state-funded projects that require review of construction documents (CD), the written analysis shall be submitted with the CD documents to the department of general services, and will be reviewed by DGS for submission, appropriate signatures, and correspondence between the goal and subgoals, if applicable, indicated in the analysis and those of the procurement documents.
    - ii. For state-funded projects that do not require review of construction documents, the written analysis shall be submitted to the public school construction program, and will be reviewed by the PSCP for submission and appropriate signatures.
    - iii. For locally funded projects that are anticipated to be requested for state approval of planning and funding, the written analysis shall be submitted with the CD documents to the Maryland state department of education, and will be reviewed by MSDE for submission, appropriate signatures, and correspondence between the goal and subgoals, if applicable, indicated in the analysis and those of the procurement documents. Submission of this document is a pre-condition for recommendation for state approval of planning and funding when submitted in an annual CIP.

- d. For projects estimated to cost between \$50,000 and \$200,000 the same analysis form is to be completed and submitted. This could be a responsibility of the PRG, but could be performed by others as well.
  - i. For state-funded projects that require review of construction documents (CD), the written analysis shall be submitted with the CD documents to the department of general services, and will be reviewed by DGS for submission, appropriate signatures, and correspondence between the goal and subgoals, if applicable, indicated in the analysis and those of the procurement documents.
  - ii. For state-funded projects that do not require review of construction documents, the written analysis shall be submitted to the public school construction program, and will be reviewed by the PSCP for submission and appropriate signatures.
- e. If the project cost is estimated to exceed \$200,000 then a copy of the written analysis shall also be sent to GOMA at the same time that the written analysis is submitted to the DGS or the PSCP.
- f. The PRG should consult with local counsel for the board of education as needed.
- 5. It is recognized that by utilizing the factors cited in 4 above, the MBE goal and/or subgoals, if applicable, for a specific project or portion thereof may be significantly higher than the overall goals of the program (29% overall, with 0% from African American-owned businesses and 0% from Asian American-owned businesses). It is also recognized and possible that there will be MBE goals set that are lower than those stated above or even that no MBE goal and/or subgoals will be set for a specific project or the segmented piece of the project.
- Assistance in reviewing the factors cited in 4 above and setting a goal and/or subgoals, if applicable, for specific projects or a segmented piece of a project can be obtained by contacting the Public School Construction Program and/or the Governor's Office of Minority Affairs.

#### 5.0 IMPLEMENTING PROCEDURES - Over \$50,000

For construction projects estimated to cost in excess of \$50,000, the following procedures will be utilized:

- 1. All advertisements, solicitations, and solicitation documents shall include the following statements:
  - a. "Certified Minority Business Enterprises are encouraged to respond to this solicitation notice."
  - b. "The contractor or supplier who provides materials, supplies, equipment and/or services for this construction project shall attempt to achieve the specific overall MBE goal of \_\_\_\_\_ percent established for this project. All prime contractors, including certified MBE firms, when submitting bids or proposals as general or prime contractors, are required to attempt to achieve this goal from certified MBE firms."
  - c. If subgoals have been established for this project then one of the following should be included:
    - "The subgoals established for this project are \_\_\_\_\_ percent from African American-owned businesses and \_\_\_\_\_ percent from Asian Americanowned businesses."

- 2) "The subgoal established for this project is \_\_\_\_\_ percent from African American-owned businesses."
- 3) "The subgoal established for this project is \_\_\_\_\_ percent from Asian American–owned businesses."
- d. "The bidder or offeror is required to submit with its bid or proposal a completed Attachment A - Certified MBE Utilization and Fair Solicitation Affidavit and Attachment B - MBE Participation Schedule, as described in the solicitation documents.
- e. If there is no overall MBE goal or MBE subgoals established for the project, then only 1.A. above is to be included.
- 2. Other Advertisement and Outreach Requirements
  - a. To encourage greater MBE participation the staff of the school system should send out notices of potential projects to MBEs or solicit bids or proposals directly from minority business enterprise contractors that are certified.
  - b. A copy of the solicitation notice, preferably electronically, shall be sent to the Governor's Office of Minority Affairs at the same time the advertisement for the solicitation is released.
  - c. Upon request for a specific project, the school system shall provide one set of drawings and specifications (and addenda when issued) to minority business enterprise associations recognized by the Governor's Office of Minority Affairs. They will be available free of charge to be picked up at a location designated by the LEA. A review of the bid or proposal activity by an association's members may be initiated to justify continuation of this service.
  - d. When a pre-bid or pre-proposal conference is held, the MBE Liaison or designated representative shall explain the MBE goal and subgoals, if applicable; the MBE provisions of the solicitation; the documentation required at the time of submission; its relationship to the responsiveness of the bidder or offeror; how to complete the required attachments, particularly A, B, and C; and additional information and supporting documentation that may be required after the bid or proposal opening. All contractors who attend the pre-bid or pre-proposal conference should receive a list or information explaining how to obtain a listing of certified MBE firms who could perform the work or have expressed an interest in performing the school construction work required for the specific project in the jurisdiction.
  - e. The names of prime contractors obtaining drawings and specifications will be shared with certified MBEs and MBE associations, upon request.
  - f. The MBE liaison, in conjunction with the procurement officer or project staff, should respond to all applicable questions and concerns relating to the project's MBE requirements completely and in a timely fashion to ensure that all potential contractors and subcontractors can compete effectively.
- 3. All Solicitation Documents Shall Include the Following:
  - a. "Certified Minority Business Enterprises are encouraged to respond to this solicitation notice".
  - b. "The contractor or supplier who provides materials, supplies, equipment and/or services for this construction project shall attempt to achieve the result that a minimum of \_\_\_ percent of the total contract value is with certified Minority Business Enterprises, with a minimum of \_\_ percent from certified African American-owned businesses, a minimum of \_\_ percent from certified Asian American-owned businesses, and the balance from any certified Minority Business Enterprises. All contractors, including certified MBE firms, when submitting bids or proposals as prime contractors, are required to attempt to

achieve the MBE goal and subgoals, if applicable, from certified MBEs". Note: see 6.1.C. above for variations that may be required.

- c. Each bid or offer submitted, including a submittal from a certified MBE in response to this solicitation, shall be accompanied by a completed Attachment A
  - Certified MBE Utilization and Fair Solicitation Affidavit and a completed Attachment B - MBE Participation Schedule. <u>These two attachments must be</u> <u>accurate and consistent with each other</u>.
  - 1) Attachment A and Attachment B shall be submitted <u>with the sealed bid price</u> or proposal at a place, date, and time specified in the solicitation document.
  - 2) As an alternative, and at the discretion of the school system, Attachment A could be submitted with the sealed bid price or proposal at a place, date, and time specified in the solicitation document. The sealed bids or proposals received by the time specified could be held, unopened for a maximum of 30 minutes. Within that time (30 minutes) each bidder or offeror must submit Attachment B, in a separate sealed envelope. The sealed price envelopes from each bidder or offeror who submits both the sealed bid or proposal and the envelope with Attachment B will then be opened and reviewed and recorded as a viable submission. Any contractor that fails to submit the second envelope, with Attachment B, prior to the specified time allowed (30 minutes) after the submittal of the sealed bid or proposal will be deemed non-responsive and the sealed bid or proposal will not be opened or considered.
- d. The submittal of a completed and signed Attachment A Certified MBE Utilization and Fair Solicitation Affidavit and a completed and signed Attachment B - MBE Participation Schedule indicates the bidder's or offeror's recognition and commitment to attempt to achieve the MBE goal and/or MBE subgoals, if applicable, for the specific project.
  - The bidder or offeror recognizes that their efforts made to initiate contact, to solicit, and to include MBE firms in this project will be reviewed carefully and evaluated based upon the actions taken by them <u>prior to and up to 10 days</u> <u>before the bid or proposal opening</u>. Follow-up actions taken by the bidder or offeror within the 10 days prior to the bid opening will also be considered.
  - 2) Based upon this review and evaluation it will be determined, by the MBE liaison, procurement officer, or a designated person, if a good faith effort was made by the apparent low bidder or apparent successful offeror.
- e. The bidder or offeror must check one of the three boxes on Attachment A, which relates to the level of MBE participation achieved for the project. The bidder's or offeror's signature indicates that in the event that they did not meet the MBE goal or subgoals, if applicable, that:
  - 1) They are therefore requesting a waiver, and

2) Documentation of their good faith efforts will be provided to the school system staff within 10 days of being notified that they are the apparent low bidder or apparent successful offeror.

- f. The bidder or offeror must submit Attachment B (as and when described above), which lists and provides information related to each certified MBE firm that the bidder or offeror will utilize on this project. A <u>completed and accurate</u> Attachment B is required. All of the work specified to be performed by each MBE firm, the contact information, MDOT certification number, minority code, the dollar values, and percentages must be correct.
- g. Attachment B should be completed and submitted with all calculations utilizing the <u>base bid or offer only</u>. A revised Attachment B should be submitted by the

successful bidder or offeror once a determination is made as to the acceptance and/or rejection of any alternates.

- h. If a request for a waiver has been made, the appropriate box on Attachment A has been checked and the attachment signed, then the LEA should obtain and review the apparent low bidder's or successful offeror's supporting documentation of the good faith efforts to justify the granting of the waiver, prior to submitting the contract award for approval to the board of education.
- i. The following documentation shall be considered as part of the contract, and shall be furnished by the apparent low bidder or successful offeror to the MBE Liaison or designated person, within ten (10) working days from notification that the firm is the apparent low bidder or successful offeror:
  - A completed Attachment D Minority Business Enterprise Subcontractor Project Participation Statement shall be completed and signed by the prime contractor and each MBE firm listed on Attachment B - MBE Participation Schedule and Attachment C - Outreach Efforts Compliance Statement shall be signed and completed by the bidder or offeror.
  - 2) Notification for purposes of this procedure means the earliest of the following methods of communication: orally in person, orally by telephone, orally by a telephone message, a faxed communication, a letter by date received or an electronic communication.
  - 3) The ten (10) working days do not include the day the notification is received, weekends or holidays (State or Federal), but the material submitted must be received by the close of business on the tenth day.
  - 4) The requirement to submit the above-listed documentation within the time frame specified will be considered by the IAC in its review of the request for contract award for the project. Failure to submit the required documentation within the time frame specified may result in a delay of the approval of the award of the contract, or the materials being returned without the approval of the award of the contract.
- 4. Waiver Procedures
  - a. If the apparent low bidder or successful offeror has determined that they are unable to meet the overall MBE goal or subgoals, if applicable, for the project at the time of submission of a bid or offer, they must check either of the two boxes on Attachment A. The signature recognizes and acknowledges that <u>a request for a waiver is being made</u>. The apparent low bidder or successful offeror will therefore be required to submit information and substantiating documentation that will be reviewed to justify the granting of a waiver.
  - b. If the apparent low bidder or successful offeror is unable to achieve the overall MBE contract goal and/or the MBE subgoals, if applicable, from certified African American-owned businesses and/or from certified Asian American-owned businesses, the apparent low bidder or successful offeror shall submit, within 10 working days from notification that the firm is the apparent low bidder or successful offeror, a completed Attachment C - Outreach Efforts Compliance Statement, Attachment E - Minority Subcontractors Unavailability Certificate, and Attachment F - MBE Waiver Documentation which shall include the following:
    - A detailed statement of the efforts made by the bidder or offeror to identify and select portions of the work proposed to be performed by subcontractors in order to increase the likelihood of achieving the stated goal;
    - 2) A detailed statement of the efforts made by the bidder or offeror prior to and up to at least ten (10) days before the bid or proposal opening to solicit minority business enterprises through written notices that describe the categories of work for which subcontracting is being solicited, the type of

work to be performed and specific instructions on how to submit a bid or proposal;

- 3) F<u>ollow-up actions</u> taken by the bidder or offeror within the 10 days prior to the bid or proposal opening will also be considered.
- 4) A detailed statement of the bidder's or offeror's efforts to make personal contact with MBE firms identified for item (2) above;
- 5) A record of the name, address, telephone number and dates contacted for each MBE identified under items (2) and (3) above;
- A description of the information provided to MBEs regarding the drawings, specifications and the anticipated time schedule for portions of the work to be performed;
- 7) Information on activities to assist minority business enterprises to fulfill bonding requirements or to obtain a waiver of these requirements;
- Information on activities to publicize contracting opportunities to minority business enterprises, attendance at pre-bid or pre-proposal meetings or other meetings scheduled by the MBE Liaison or designated representative; and
- 9) As to each MBE that placed a subcontract quotation or offer which the apparent low bidder or successful offeror considers not to be acceptable, a detailed statement of reasons for this conclusion.
- c. In addition to any waiver documentation the apparent low bidder or successful offeror shall submit one completed Attachment D Minority Business Enterprise Subcontractor Project Participation statement for each MBE firm that will participate in the project consistent with the information previously provided at the time of the submission of Attachment B or the revised Attachment B.
- d. A waiver of an MBE contract goal or subgoal, if applicable, may be granted by the school system only upon receipt of Attachment C - Outreach Efforts Compliance Statement, Attachment E - Minority Subcontractors Unavailability Certificate, and Attachment F - MBE Waiver Documentation as described above in items 1) through 9)
  - 1) The MBE Liaison will review and accept or reject the minority business enterprise material that is submitted, and could obtain legal advice or assistance from their attorney.
  - The MBE waiver request may not be considered unless all of the documentation specified above has been submitted in a timely fashion by the apparent low bidder or successful offerer.
  - Assistance in the review of a request for a waiver (the documentation and justifications) may be requested from the Public School Construction Program and/or the Governor's Office of Minority Affairs.
  - 4) If a determination is made that the apparent low bidder or successful offeror did make a good faith effort, based upon a review of the documentation submitted, then the waiver <u>must be granted</u>. The award of contract shall then be made. The material and information submitted, including the LEA's review and analysis notes and conclusion shall be retained in the project file.
  - 5) If a determination is made that the apparent low bidder or successful offeror did not make a good faith effort, based upon a review of the documentation submitted, then the waiver <u>should not be granted</u>. The material and information submitted, including the LEA's review and analysis notes and conclusion, shall be retained in the project file. The award of contract shall then be made to the next lowest bidder or offeror, who meets the contractual requirements, including the MBE requirements.
  - 6) When a waiver is granted, a copy of Attachment F MBE Waiver Documentation, accepted and signed by a school system representative and with the reasons for the determination, shall be forwarded to the Governor's

Office of Minority Affairs and the Public School Construction Program <u>within</u> ten (10) days after approval of the contract award by the board of education. Failure to submit the required documentation within the time frame specified may result in delayed approval of the award of contract by the IAC.

- 5. All Contracts Shall Include The Following:
  - a. "The contractor shall perform the contract in accordance with the representations made in Attachment A - Certified Minority Business Enterprise Utilization and Fair Solicitation Affidavit and Attachment B - MBE Participation Schedule, submitted as part of the bid or proposal".
  - b. "Failure to perform the contract as specified and presented in the bid or proposal submission without prior written consent of the owner shall constitute a violation of a material term of the contract".
    - 1) The contractor shall structure his/her operations for the performance of the contract to attempt to achieve the MBE goals as stated in the solicitation document.
    - 2) The contractor agrees to use his/her best efforts to carry out these requirements consistent with the efficient and effective performance of the contract.
    - 3) The contractor must ensure that all certified MBEs shall have the maximum practical opportunity to compete for additional subcontract work under the contract, even after the award of the contract.
    - 4) The contractor shall submit monthly to the MBE Liaison or the school system's designated representative a report listing any unpaid invoices, over 30 days old, received from any certified MBE subcontractor, the amount of each invoice and the reason payment has not been made.
    - 5) The contractor shall included in its agreements with its certified MBE subcontractors, a requirement that those subcontractors submit monthly to the MBE Liaison or appropriate representative a report that identifies the prime contract and lists all payments received from the contractor in the preceding 30 days, as well as any outstanding invoices, and the amount of those invoices.
    - 6) The contractor shall cooperate in any reviews of the contractor's procedures and practices with respect to minority business enterprises, which the MBE Liaison, the Public School Construction Program, and/or the Governor's Office of Minority Affairs may, from time to time, conduct.
    - 7) The contractor shall maintain such records as are necessary to confirm compliance with its MBE participation obligations. These records must indicate the identity of certified minority and non-minority subcontractors employed on the contract, the type of work performed by each, and the actual dollar value of work performed. Subcontract agreements documenting the work performed by all MBE participants must be retained by the contractor and furnished to the MBE Liaison and or appropriate representative on request.
    - 8) All records concerning MBE participation must be retained by the contractor for a period of five years after final completion of the contract, and will be available for inspection by the MBE Liaison, representatives from the Public School Construction Program and/or other designated official entities.
    - 9) At the option of the MBE Liaison or appropriate agency representative, upon completion of the contract and before final payment and/or release of retainage, the contractor shall submit a final report in affidavit form and under penalty of perjury, of all payments made to, or withheld from MBE subcontractors.

- 10) If at any time after submission of a bid or proposal and before execution of a contract, the apparent successful bidder or offeror determines that a certified MBE listed on Attachment B MBE Participation Schedule has become or will become unavailable, then the apparent successful bidder or offeror <u>shall</u> immediately notify the procurement officer and provide such officer with a reason(s) why the change has occurred. Any desired change in Attachment B MBE Participation Schedule shall be approved in advance by the procurement officer and shall indicate the contractor's efforts to substitute another certified MBE subcontractor to perform the work. Desired changes occurring after the date of contract execution may occur only upon written approval by the LEA.
- 11) A business that presents itself as a minority business may participate in a project but the contract value may not be counted toward the MBE goal or subgoals, if applicable, until the business is certified by MDOT. If it is not certified at the time of contract award it may not be counted toward the goal or subgoals, if applicable, at that time. Only the funds paid after MDOT certification can be counted toward meeting the MBE goal or subgoals, if applicable. If a certified MBE fails to meet the standards specified in State Finance and Procurement Article.14-301, Annotated Code of Maryland, the payments made to the MBE can be recorded and counted under a contract entered into when the MBE was eligible and certified. Ineligibility of an MBE to participate in the MBE program may not be the sole cause of the termination of the MBE contractual relationship for the remainder of the term of the contract.
- 12) Contractors are encouraged to seek additional MBE participation in their contracts during the life of the project. Any additional MBE participation from certified MBEs should be reported to the MBE liaison and should be included in subsequent monthly requisitions for payment.
- 13) The contractor shall complete the Standard Monthly Contractor's Requisition for Payment (IAC/PSCP Form 306.4), specifically page 3 of 16, *Minority Business Enterprise Participation*, with each requisition submitted for payment. This submittal should accurately reflect the payments to be made that month to MBEs, and the cumulative total for the period specified. Any and all MBE firms that are identified on Attachment B MBE Participation Schedule should be included on page 3 of the first and all subsequent requisitions for payment. Any MBEs identified during the life of the project should be added as soon as the contractor engages them.
- 14) At the completion of the project the contractor shall prepare a written summary of the final certified MBE participation in the contract as compared to the proposed participation at the time of contract award. This should include the name of each certified MBE, the amount that was anticipated to be paid at the time of contract award, the amount actually paid, and an explanation of any differences that have occurred. Special attention should be given to any situations where the final payments to any MBE was below the level of commitment at the time of contract award.
- 6. Projects Utilizing a Construction Manager Delivery Method

This section of the procedure has been prepared based upon the utilization of Construction Manager Agency method of delivery. If another alternative method of project delivery is being considered, then these procedures would need to be adapted in consultation with the PSCP before proceeding.

a. For projects that are being designed and solicited utilizing a Construction Manager Agency delivery method with multiple prime contracts, the school system can structure its procedures to attain the overall MBE goal and subgoals, if applicable, for the project as presented below:

- b. The MBE liaison and other school system staff should work with the project's construction manager, cost estimator, and architect, along with any other individuals who could provide assistance, to determine the overall MBE utilization strategy for the work required, appropriate bid packages, and an appropriate overall MBE goal and subgoals, if applicable, for each specific bid or proposal package.
- c. The overall MBE goal and subgoals, if applicable, for the project shall represent the aggregate of the individual goals and subgoals, if applicable, set for each bid or proposal package.
- d. In setting the specific goals and subgoals, if applicable, for each solicitation package consideration should be given to the potential for MBE participation to the maximum extent possible. The information and procedures provided in section 4.0 MBE Goal Setting Procedures should be consulted and followed for these types of projects.
- e. Prior to submitting the construction documents for State review and authorization to solicit bids or proposals, the school system's representative will prepare a complete list of the individual solicitation packages and indicate the MBE goal and subgoals, if applicable, for each solicitation package. This would include the overall MBE goal and subgoals, if applicable, established in the solicitation documents, the estimated cost for each solicitation package, and the estimated MBE dollar amounts for each solicitation package. <u>A copy of this list should be submitted with the construction documents</u>. The list should be retained as a record by the school system for comparison to the actual contracts awarded with MBE participation, and the final actual MBE participation at the completion of the project.
- f. Contractors submitting bids or proposals for solicitation packages that do not include a MBE goal and subgoals, if applicable, would not be required to submit any of the MBE attachments that are otherwise required nor would they be required to indicate that they are requesting a waiver. The school system representative would, however, request information from the contractor at the completion of the project to determine if any certified MBE firms had participated in the contract.
- g. All other submittals of MBE materials and reporting requirements are applicable for the project, including the submittal of attachments a and b as described above in section 6.0. this includes the documentation for a request for a waiver, if applicable and appropriate.

### 6.0 RECORDS AND REPORTS

- The MBE Liaison shall maintain such records as are necessary to confirm compliance with its Minority Business Enterprise Procedures and activities. The records shall be maintained until the project is audited by the Public School Construction Program. These records shall include by project:
  - a. The contractor report submitted at the completion of the project;
  - b. The identity of the minority contractors employed on the project;
  - c. The type of work performed;
  - d. The actual dollar value of the work, services, supplies or equipment; and
  - e. The MBE percentage of the total contract.
- 2. The MBE Liaison will maintain a record of all waivers approved for each project or solicitation package where the prime contractor was unable to achieve the established overall goal or subgoals, if applicable. <u>The MBE Liaison will, however, report to the PSCP all MBE participation by MDOT certified firms who are prime</u>

<u>contractors</u>, <u>subcontractors</u>, <u>suppliers</u>, <u>or otherwise making an economically viable</u> <u>contribution to each project</u>. This information shall be reported to PSCP within ten (10) days after approval of the award of the contract by the board of education.

- 3. The LEA shall submit the "Certified Minority Business Enterprise Participation Standard Monthly Contractor's Requisition for Payment" (IAC/PSCP Form 306.4 page 3 of 16, located in the Administrative Procedures Guide), which is Attachment G in this procedure, to the PSCP Director of Fiscal Services as part of the regular monthly request for payment for the project.
- 4. The LEA shall submit the "Close-Out Cost Summary" (IAC/PSCP Form 306.6 located in the Administrative Procedures Guide), which is Attachment H of this procedure, along with the "Certified Minority Business Enterprise Participation Standard Monthly Contractor's Requisition for Payment" (IAC/PSCP Form 306.4) to the PSCP Director of Fiscal Services within 180 days of completion of the project.
- 5. Each fiscal year end, PSCP Fiscal Services will create a report "Payments Made To Contractors during The Fiscal Year" and maintain such records as are necessary to confirm compliance with its minority business enterprise procedures and activities.
- 6. Each fiscal year end, PSCP Fiscal Services will create a report "Projects Completed During the Fiscal Year" and maintain such records as are necessary to confirm compliance with its Minority Business Enterprise Procedures and activities. This report will compare the overall MBE goal and subgoals, if applicable, for each specific project with the MBE participation anticipated at the time of contract award and the actual MBE participation at the completion of the project.

### 7.0 MONITORING

- 1. The LEA's procurement personnel or project staff shall verify that the certified MBE's listed in the MBE participation schedule are actually performing the work.
- 2. The LEA's procurement personnel shall ensure that MBE subcontractors are receiving compensation as set forth in the MBE participation schedule by ensuring that the contractor submits monthly reports, listing any unpaid invoices over 30 days old received from any certified MBE subcontractor, the amount of each invoice, and the reason payment has not been made.
- 3. The MBE Liaison and/or the Public School Construction Program will conduct reviews as deemed necessary to confirm compliance with the minority business enterprise participation requirements.
- 4. The MBE Liaison will maintain appropriate records, and shall assist the Public School Construction Program in on-site or post-audit reviews upon request.
- Auditors from the Public School Construction Program will have access to and the ability to audit MBE participation for specific projects, information retained by the LEA, and/or submitted to the IAC in reports/forms filed by the LEA as referenced above.

Attachment A (page 1 of 2)

# **CERTIFIED MINORITY BUSINESS ENTERPRISE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT**

*NOTE: You must include this document with your bid or offer.* If you do not submit the form with your bid or offer, the procurement officer shall deem your bid non-responsive or your offer not reasonably susceptible of being selected for award.

\* \* \* \* \* \* \* \* \* \* \* \* \*

### Part I.

I acknowledge the:

- Overall certified MBE subcontract participation goal of 29 %. and
- The subgoals, if applicable, of:
  - 0% for certified African American-owned businesses and
  - 0% for certified Asian American-owned businesses.

I have made a good-faith effort to achieve this goal. If awarded the contract, I will continue to attempt to increase MBE participation during the project.

# Part II.

Check ONE Box

# NOTE: FAILURE TO CHECK ONE OF BOXES 1, 2, or 3 BELOW WILL RENDER A BID NON-RESPONSIVE OR AN OFFER NOT REASONABLY SUSCEPTIBLE OF BEING SELECTED FOR AWARD

# NOTE: INCONSISTENCY BETWEEN THE ASSERTIONS ON THIS FORM AND THE INFORMATION PROVIDED ON THE *MBE PARTICIPATION SCHEDULE* (ATTACHMENT B) MAY RENDER A BID NON-RESPONSIVE OR AN OFFER NOT REASONABLY SUSCEPTIBLE OF BEING SELECTED FOR AWARD

1 I have met the overall MBE goal and MBE subgoals for this project. I submit with this Affidavit [Attachment A] the *MBE Participation Schedule* [Attachment B], which details how I will reach that goal.

or

2 After having made a good-faith effort to achieve the overall MBE goal and MBE subgoals for this project, I can achieve partial success only. I submit with this Affidavit [Attachment A] the *MBE Participation Schedule* [Attachment B], which details the MBE participation I have achieved.

I request a partial waiver as follows:

- Waiver of overall MBE subcontract participation goal: \_\_\_\_\_%
- Waiver of MBE subcontract participation subgoals, if applicable:
  - \_\_\_\_\_% for certified African American-owned businesses and
  - \_\_\_\_\_% for certified Asian American-owned businesses.

Within 10 days of being informed that I am the apparent awardee, I will submit *MBE Waiver Documentation* [Attachment F] (with supporting documentation).

### Attachment A (page 2 of 2) or

3 After having made a good faith effort to achieve the overall MBE goal and MBE subgoals for this project, I am unable to achieve any portion of the goal or subgoals. I submit with this Affidavit [Attachment A] the *MBE Participation Schedule* [Attachment B].

I request a full waiver.

Within 10 days of being informed that I am the apparent awardee, I will submit *MBE Waiver Documentation* [Attachment F] (with supporting documentation).

## Part III.

I understand that if I am the apparent awardee or conditional awardee, I must submit **within 10 working days** after receiving notice of the potential award or within 10 days after the date of conditional award – whichever is earlier – the:

- *Outreach Efforts Compliance Statement* (Attachment C)
- Subcontractor Project Participation Statement (Attachment D)
- *Minority Subcontractors Unavailability Certificate* (Attachment E) (if applicable)
- Any other documentation the Procurement Officer requires to ascertain my responsibility in connection with the MBE participation goal and subgoals

I acknowledge that if I fail to timely return complete documents, the Procurement Officer may determine that I am not responsible and therefore not eligible for contract award. If the contract has been awarded, the award is voidable.

I acknowledge that the MBE subcontractors/suppliers listed in the *MBE Participation Schedule* and any additional MBE subcontractor/suppliers identified in the *Subcontractor Project Participation Statement* will be used to accomplish the percentage of MBE participation that I intend to achieve.

In the solicitation of subcontract quotations or offers, MBE subcontractors were provided the same information and amount of time to respond as were non-MBE subcontractors.

The solicitation process was conducted in such a manner so as to not place MBE subcontractors at a competitive disadvantage to non-MBE subcontractors.

# I solemnly affirm under the penalties of perjury that this Affidavit is true to the best of my knowledge, information, and belief.

Bidder/Offeror Name

Affiant Signature

Address

Printed Name & Title

Address (continued)

Date

# Attachment B MBE PARTICIPATION SCHEDULE

This document must be included with the bid or offer. If the bidder or offeror fails to submit this form with the bid or offer as required, the procurement officer shall deem the bid non-responsive or shall determine that the offer is not reasonably susceptible of being selected for award.

1. Prime Contractor's Name	2. Prime Contractor's Address and Telephone Number	
3. Project/School Name	4. Project/School Location	
5. LEA and PSC No.		
5. LEA and 15C IV.	6. Base Bid Amount \$	
7a. Minority Firm Name	Minority Firm Address	
Minority Firm Telephone Number	Minority Group Type	
	□ (African American) □ (Women)	
Minority Firm Fax Number	Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system   Image: Constration Image: Constratint of the system I	
MDOT Certification Number		
Work to be Performed and Subcontract Dollar Amount	Percent of Total Contract	
7b. Minority Firm Name	Minority Firm Address	
Minority Firm Telephone Number	Minority Group Type	
	□ (African American ) □ (Women ) □ (Asian) □ (Hispanic)	
Minority Firm Fax Number	□ (American Indian) □ (Disabled)	
MDOT Certification Number		
	Percent of Total Contract	
Work to be Performed and Subcontract Dollar Amount	rercent of Total Contract	
7c. Minority Firm Name	Minority Firm Address	
Minority Firm Telephone Number	Minority Group Type	
	□ (African American) □ (Women)	
Minority Firm Fax Number	Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   Image: Constraint of the system     Image: Constraint of the system   Image: Constraint of the system   I	
MDOT Certification Number		
Work to be Performed and Subcontract Dollar Amount	Percent of Total Contract	
8. MBE Total Dollar Amount	9. Total MBE Percent of Entire Contract	
10. Form Prepared by: (Name):	11 Reviewed and Accented by Roard of Education MRE Linison	
10. 10.m 11cparcu by, (10ame).	11. Reviewed and Accepted by Board of Education MBE Liaison	
Signature:	Name	
Title:	Title	
11ut		
Date:	Date	
Tatal MDE Dautising diama	0/ ¢	
Total MBE Participation:	% \$ % \$	
	% \$	

\$\_\_\_\_\_

%

**Total Other Participation:** 

# Attachment C

# **OUTREACH EFFORTS COMPLIANCE STATEMENT**

In conjunction with the bid or offer submitted in response to Howard County Public Schools for the project, PSC # \_\_\_\_\_, I state the following:

- 1) Bidder/Offeror identified opportunities to subcontract in these specific work categories:
- 2) Attached to this form are copies of written solicitations (with bidding instructions) used to solicit certified MBEs for these subcontract opportunities.
- 3) Bidder/Offeror made the following attempts to contact personally the solicited MBEs:
- 4) Bidder/Offeror assisted MBEs to fulfill or to seek waiver of bonding Requirements (Described Efforts)
  - This project does not involve bonding requirements.
- 5) Bidder/Offeror did/did not attend the pre-bid conference

No pre-bid conference was held.

Bidder/Offeror Name

By: \_\_\_\_\_

Address

Name, Title

Date

### Attachment D

# MINORITY BUSINESS ENTERPRISES SUBCONTRACTOR PROJECT **PARTICIPATION STATEMENT**

PROJECT/ SCHOOL NAME:
PROJECT/ SCHOOL LOCATION:
LEA:
NAME OF PRIME CONTRACTOR:
NAME OF MBE SUBCONTRACTOR:
MDOT Certification Number
1. Work/Services to be performed by MBE Subcontractor:
2. Subcontract Amount: \$
3. Bonds - Amount and type required of Subcontractor if any:
4. MBE Anticipated or Actual Commencement Date: Completion Date:
5. This MBE subcontract represents the following percentage of the total contract cost:
6. This is an African American Firm: Yes No
7. This is a Women Owned Business Firm: Yes No
8. This is an Asian, American Indian, Hispanic or Disabled Firm: Yes No (Circle One)
The undersigned subcontractor and prime contractor will enter into a contract for the work/service indicated above upon the prime contractor's execution of a contract for the above referenced project with the Board of Education. The undersigned subcontractor is a MDOT certified Minority Business Enterprise. The terms

ιy ւլ and conditions stated above are consistent with our agreements.

Signature of Subcontractor:

Date: \_\_\_\_\_

\*

The term and conditions stated above are consistent with our agreements.

Signature of Prime Contractor:

Date:
# Attachment E

# MINORITY SUBCONTRACTOR UNAVAILABILITY CERTIFICATE

1. It is hereby	y certified that the firm of			
		(Name of N	linority firm)	
located at				
	(Number)		(Street)	
	(City)		(State)	(Zip)
was offered a	n opportunity to bid on the			school project
in	County by			
		(Name of Prime	Contractor's Firm)	
******	*****	*****	*****	*****
2. The		(Minor	ity Firm) is either	unavailable for the
	or unable to prepare a bid for this p			
Signature	of Minority Firm's MBE Representativ		Title	Date
	DT Cartification #		T-l	-l
MDC	OT Certification #		Telej	phone #
		~		
3. To be con	mpleted by the prime contractor if S	Section 2 of this for	m is <u>not</u> completed	by the minority firm.
	f my knowledge and belief, said (			
	for this project, is unable to prepar the above portion of this submitta		respond to a request	st for a price proposal and has
not completed	a the above portion of this sublitted	.1.		

Signature of Prime Contractor

Title

Date

# Attachment F

# **MBE WAIVER DOCUMENTATION**

Project Name:			
Base Contract Amount	\$ 		
Plus Accepted Alternates			
Equals Total Contract Amount	\$		

I have previously requested that a waiver be granted to the overall MBE goal for this project of \_\_\_\_\_ percent, with a minimum of \_\_\_\_\_ percent from certified African American-owned businesses, a minimum of \_\_\_\_\_ percent from certified Asian American-owned businesses, and the balance from all certified minority business enterprises, if applicable. This would include the total dollar value of all materials, supplies, equipment, and services, including construction services directly or indirectly, from Minority Business Enterprises (MBE) which are currently certified by the Maryland Department of Transportation (MDOT).

I \_\_\_\_\_\_, hereby certify that my position is

(Position Title)

-, and I am the duly authorized representative of

(Company Name)

I further certify that I have submitted a *Schedule for Participation of Certified Minority Business Enterprises* which reflects the percentage and dollar value of certified Minority Business Enterprise participation which my company expects to achieve for this contract. Therefore, the request for the waiver is as follows:

	Summary N	IDE I al licipation	on Seneaule II o			
Minority Group	MBE GOAL		Actual MBE Dollar Participation		Request For Waiver	
	Percent of Total Contract	Dollar Value of Total Contract*	Dollar Value	Percent of Total Contract	Dollar Value	Percent of Total Contract
a. Sub Goal African American						
b. Sub Goal Asian American						
c. Other * in Sub Goal group a/b above						
TOTALS						

Summary MBE Participation Schedule from Attachment B

\* with accepted/rejected alternates

To support this request for a waiver, I include the following information as attachments which I certify to be true to the best of my knowledge.

- 1. A detailed statement of the efforts made by the contractor to identify and select portions of the work proposed to be performed by subcontractors in order to increase the likelihood of achieving the stated goal;
- 2. A detailed statement of the efforts made by the contractor <u>prior to and up to 10 days before the bid opening</u> to solicit minority business enterprises through written notices that describe the categories of work for which subcontracting is being solicited, the type of work to be performed, and specific instructions on how to submit a bid;
- **3.** A detailed statement of the contractor's efforts to make personal contact with MBE firms identified for Item 2. above;
- 4. A record of the name, address, telephone number, and dates contacted for each MBE identified under items 2. and 3. above;
- 5. A description of the information provided to MBE's regarding the plans, specifications and the anticipated time schedule for portions of the work to be performed;
- 6. Information on activities to assist minority business enterprises to fulfill bonding requirements, or to obtain a waiver of these requirements;
- 7. Information on activities to publicize contracting opportunities to minority business enterprises, attendance at pre-bid meetings, or other meetings scheduled by the MBE Liaison or designated representative;
- 8. As to each MBE that placed a subcontract quotation or offer which the apparent low bidder or successful offeror considers not to be acceptable, a detailed statement of reasons for this conclusion; and
- 9. A list of minority subcontractors found to be unavailable. This shall be accompanied by a <u>Minority</u> <u>Subcontractor Unavailability Certificate</u> signed by the minority business enterprise or from the apparent low bidder or successful offeror indicating that the minority business did not provide the written certification.

Signature		Date
	(Company Representative Name	2)
Sworn and su	ubscribed before me this	day.
of	in the year	Notary Public
Reviewed an Liaison.	d accepted by the <u>Howard</u>	(County Name)
Signature _		Date
	(County Representative Nam	e)

MBE Request For Waiver Master Form (July 2002)

# Attachment G

# **CERTIFIED MINORITY BUSINESS ENTERPRISE PARTICIPATION** STANDARD MONTHLY CONTRACTOR'S REQUISITION FOR PAYMENT

LEA:

FACILITY NAME: SCOPE OF WORK: DATE:

PSC NO: **REQ NO:** 

Name of MBE Sub-Contractor	MDOT Certification Number and Classification	TOTAL MBE Contract Amount	Amount to be Paid THIS Requisition	TOTAL Paid to Date	MBE has Received FINAL Payment?	If amount paid is LESS than TOTAL MBE Contract Amount, EXPLAIN VARIANCE
	TOTAL:	\$-	\$-	\$-		

MDOT Certification Number and Classification can be located at http://mbe.state.mdot.state.md.us/directory/

#### **MBE Classification:**

African American = AA Hispanic American = H Native American = NAsian American = AWomen = W

African American/Women = AAW Hispanic American/Women = HW Native American/Women = NW Asian American/Women = AW

I certify that the figures and information presented above represent accurate and true statements, that timely payments have been and will be made to suppliers and subcontractors on this project as requisitioned payments are received, and in accordance with our contracts.

Name of Contractor Firm

Authorized Contractor Signature/Date

Contractor Federal Tax ID #

Contractor MBE Classification # (if applicable)

Name of LEA MBE Liaison (Printed)

Signature of LEA MBE Liaison/Date

Revised March 2013

#### IAC/PSCP Form 306.4 Page 3 of 16

# Attachment G CERTIFIED MINORITY BUSINESS ENTERPRISE PARTICIPATION STANDARD MONTHLY CONTRACTOR'S REQUISITION FOR PAYMENT

#### Instructions for Completion of IAC/PSCP Form 306.4 Page 3

#### THIS FORM TO BE COMPLETED BY PRIME CONTRACTOR ONLY

- 1. LEA Enter full name of LEA.
- 2. Facility Name Enter full name of school/facility.
- Scope of Work Enter type of work being performed (i.e. New, Renovation, Roof, HVAC, ASP Flooring, QZAB Media Center, etc.).
- 4. <u>Date</u> Date of Requisition.
- 5. <u>PSC NO</u> Enter full PSC Number as assigned by PSCP.
- 6. <u>REQ NO</u> Enter the number of the corresponding Requisition for Payment.
- 7. <u>Name of MBE Sub-Contractor</u> Enter full name of MBE Sub-Contractor.
- MDOT Certification Number & Classification Enter the 5 digit MDOT Certification number and corresponding MDOT Classification for each MBE Sub-Contractor. MDOT Classifications and the MDOT website are listed at the bottom of this form.
- <u>TOTAL MBE Contract Amount</u> Enter ORIGINAL Total MBE Contract Amount as stated on MBE Attachments B and D. This amount should NOT be altered with change order amounts, changes to scope of work, etc. which may affect contract amount.
- 10. <u>Amount to be Paid This Requisition</u> Enter the amount to be paid to the MBE Sub-Contractor for work applicable to this requisition.
- 11. <u>TOTAL Paid to Date</u> Enter the TOTAL amount paid to date to the MBE Sub-Contractor this amount should NOT include the amount being paid on this requisition, only the total of prior payments.
- 12. <u>MBE has Received FINAL Payment</u> Enter "YES" if the MBE Sub-Contractor has been paid in full. Enter "NO" if the MBE Sub-Contractor has NOT been paid in full.
- **13.** <u>If amount paid is LESS than TOTAL MBE Contract Amount, EXPLAIN VARIANCE</u> Enter a brief reason for the MBE Sub-Contractor NOT being paid equal to or greater than the ORIGINAL Total MBE Contract Amount as stated on this form and MBE Attachments B & D. Additional documentation may be required to be submitted for variance explanations.
- 14. Name of Contractor Firm Enter full name of Prime Contractor.
- 15. <u>Authorized Contractor Signature/Date</u> The authorized individual employed by the Prime Contractor who filled this form out should date and sign here.
- 16. <u>Contractor Federal Tax ID #</u> Enter the Federal Tax ID Number of the Prime Contractor.
- 17. <u>Contractor MBE Classification #</u> Enter the MDOT MBE Classification Number if the Prime Contractor is a MDOT certified MBE Company.
- 18. <u>Name of LEA MBE Liaison</u> PRINT the name of the LEA MBE Liaison (or other LEA authorized employee) responsible for VERIFYING ALL INFORMATION filled out by the Prime Contractor on this form.
- 19. <u>Signature of LEA MBE Liaison/Date</u> Signature of the person VERIFYING ALL INFORMATION filled out by the Prime Contractor on this form (signature of person stated in Step #18.)

# MECHANICAL AND ELECTRICAL SPECIFICATIONS

# **DIVISION 01 – GENERAL REQUIREMENTS**

#### 010000 – GENERAL REQUIREMENTS

#### A. RELATED DOCUMENTS

1. Drawings, and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to all mechanical and electrical work.

#### B. SCOPE

- 1. All work shall be complete and ready for satisfactory service.
- 2. The contract drawings are diagrammatic and are intended to convey the general arrangement of the work.
- 3. The contractor is responsible for the means, methods, and work scheduling associated with the installation of the mechanical <u>and electrical systems</u>.

# C. CODES AND STANDARDS

- 1. All work shall be performed in accordance with the edition of the following codes and standards that have been adopted by the authority having jurisdiction:
  - a. International Mechanical Code (IMC)
  - b. American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)
  - c. Sheet Metal and Air Conditioning National Association (SMACNA)
  - d. American Society of Testing and Materials (ASTM)
  - e. American National Standards Institute (ANSI)
  - f. International Plumbing Code (IPC)
  - g. National Electric Code (NEC)
  - h. Underwriters Laboratories (UL)
- 2. In the event the contract documents are in conflict with the applicable codes, the requirements of the applicable codes shall apply.

# D. PERFORMANCE AND PAYMENT BOND

1. Provide a performance and payment bond for the project.

# E. PERMITS

1. The contractor shall obtain and pay for all permits and certificates of inspection required by the authority having jurisdiction.

- 2. The contractor shall obtain all permits and certificates of inspection required by the authority having jurisdiction. There is no permit charge for the Howard County Public School System.
- 3. Prior to submitting the permit application, the contractor shall print the required number of sets of permit drawings and deliver them to the engineer to sign and seal. The engineer will return the signed and sealed permit sets to the contractor for his use in submitting the permit application.

# F. SITE EXAMINATION

1. The contractor shall examine the site and observe the conditions under which the work will be installed. No allowances will be made for errors or omissions resulting from the contractor's failure to completely examine the site.

# G. SUBCONTRACTOR AND MANUFACTURER LIST

1. The contractor shall submit at time of bid the names of all subcontractors along with equipment and manufacturers on the Form of Proposal, (see Section 00300).

# H. AWARD

1. It is the intent of the HCPSS to award each project individually.

#### I. WORKING HOURS

- 1. Monday through Sunday, 7:00 am to 11:00 pm.
- 2. Overtime hours: Not applicable.
- 3. There shall be no disruption to hot water service during school hours to the kitchen area.

# 010100 – SPECIAL REQUIREMENTS

- A. FIRE PREVENTION
  - 1. Each contractor shall:
    - a. Avoid accumulation of flammable debris and waste within the building and vicinity. Avoid large and unnecessary accumulations of combustible forms and form lumber.
    - b. Store flammable or volatile liquids in the open or in small detached structure or trailers. Handle liquids with low flash points that are to be used within the building in approved safety cans. Supervise closely the storage of paint materials and other combustible finishing and cleaning products. Do not permit oily rags to be stored in closets or other tight permanent spaces.
    - c. Tobacco use is prohibited on the school property.
    - d. Closely supervise welding and torch cutting operations near combustible materials.
    - e. Use only fire-resistant building paper, plastic sheet, and tarpaulins for temporary protection.
    - f. Do not store combustible material outdoors within 10 feet of a building or structure.
    - g. Do not use gasoline for cleaning within the building under any circumstances.
    - h. Do not burn any trash or other material on site.
    - i. Take other precautions suitable for hazardous conditions at the site to prevent fire.

# B. ACCIDENT PREVENTION AND SAFETY

- 1. Each contractor shall:
  - a. Comply with all applicable laws, ordinances, rules, regulations, and orders of governing authorities having jurisdiction for the safety of persons and property to protect them from damage, injury, or loss.
  - b. Erect and maintain, as required by conditions and progress of the work, all necessary safeguards for safety and protection, including fences, railings, barricades, lighting, posting of danger signs and other warnings against hazards.

# C. PROJECT SCHEDULE

1. Major construction milestones shall be as scheduled below. Should the contractor fail to complete major milestones as scheduled, the owner may issue a cure notice or take any action deemed necessary to return the delayed major milestones and any related successor functions back on schedule, as soon as possible, at the contractor's expense.

- 2. The contractor shall develop a detailed project schedule, approximately sequencing all required work, including shop drawing submittals, equipment fabrication periods, etc.
- 3. Major construction milestones shall be as follows:
  - a. October 9, 2014 Contract award
  - b. October 23, 2014 Submittals due
  - c. November 1, 2014 Commencement of construction
  - d. December 12, 2014 Cleaning, testing, and final inspections
  - e. December 19, 2014 Completion of construction

# D. EXISTING SYSTEMS AFFECTED BY THE WORK

- 1. Prior to commencement of construction, the owner will advise the contractor of the operating capabilities of those portions of the following systems that may remain and, at the contractor's option, will demonstrate to the contractor the operating capabilities of these systems, which will be considered first class if not demonstrated.
  - a. Automatic fire sprinkler system.
  - b. Building automation system.
  - c. Fire alarm system.
- 2. During construction, the contractor will make every effort to protect the abovelisted systems, including, but not limited to, providing temporary supports for devices located in ceilings to be removed, providing plastic bags for protection of devices from dust and debris, and repositioning of system wiring to avoid damage.
- 3. When the replacement acoustical ceiling is sufficiently complete for the purpose, reinstall all devices, wiring, and sprinklers previously removed or relocated. Repair and/or replace any damaged equipment. Restore systems to operating capabilities as determined prior to construction.
- 4. In the presence of the owner, demonstrate the final system operating capabilities equal to the capabilities determined prior to the commencement of construction.

#### 011000 - SUMMARY

#### A. WORK IN EXISTING BUILDINGS

- 1. Sufficient provisions shall be made to protect occupied areas from all dirt and debris resulting from the work.
- 2. Where mechanical and electrical systems pass through renovated areas to serve other portions of the building, they shall remain or be suitably relocated and the system restored to normal operation.
- 3. Any outages in the mechanical and electrical systems shall be coordinated with the owner and performed at his convenience so as to provide a minimum of disruption to the operation of the facility. Where the duration of the proposed outages cannot be tolerated by the owner, the contractor shall provide temporary connection as required to maintain service.

#### B. CLEAN-UP

- 1. Throughout the course of the work, the contractor shall keep the premises free from the accumulation of dirt and debris.
- 2. Upon completion of the work, the contractor shall clean the premises to the satisfaction of the owner.

#### C. EXISTING SERVICES

1. The contractor shall verify the size and location of all existing services. The contractor shall notify the engineer of all discrepancies that exist between the contract documents and the existing services before making any connections to the existing services.

#### D. DEMOLITION

- 1. Demolition shall be performed as neatly as practical and with the minimum disruption to the building activities and occupants.
- 2. Remove all existing hangers and supports associated with the demolition work.
- 3. Where a portion of existing piping or ductwork is indicated to be removed, the remaining piping or ductwork shall be capped and reinsulated to match existing.
- 4. All equipment and materials being removed, and not indicated to be given to the owner, shall be disposed of by the contractor in accordance with all federal, state, and local laws, ordinances, rules, and regulations.
- 5. All equipment and materials indicated to be reused or given to the owner shall be carefully removed so as not to damage the equipment or material, or affect its reuse. Any such equipment and materials damaged by the contractor shall be replaced new by the contractor at no expense to the owner.

# E. ASBESTOS

1. Should the contractor encounter any known or suspected asbestos at any time during the course of the work, he shall remove his workers from the affected area, notify the owner immediately, and await instructions from the owner.

# 012300 – ALTERNATES

- A. SUMMARY
  - 1. This Section includes administrative and procedural requirements for alternates.

#### B. DEFINITION

1. An alternate is an amount proposed by bidders and stated on the Bid Form for certain construction activities that may be added to the base bid amount if the owner decides to accept a corresponding change in either the amount of construction to be completed, or in the products, materials, equipment, systems or installation methods described in the contract documents.

## C. COORDINATION

1. Coordinate related work and modify or adjust adjacent work as necessary to ensure that work affected by each accepted alternate is complete and fully integrated into the project at no additional cost to that proposed on the Bid Form.

#### D. SCHEDULE OF ALTERNATES

- 1. Add Alternate No. 1: Kitchen Make-up Air Unit
  - a. Bidders shall provide the price for all work associated with the replacement of the kitchen make-up air unit for each school on the Bid Form as the Add Alternate No. 1 price for each school.

# 013100 - PROJECT MANAGEMENT AND COORDINATION

- A. CONSTRUCTION SUPERINTENDENT
  - 1. The contractor shall provide a construction superintendent at the site at all times to oversee the mechanical and electrical work and be responsible for its accuracy.

# B. PROGRESS MEETINGS

- 1. Conduct progress meetings at biweekly intervals at the project site.
- 2. The engineer will record and distribute the meeting minutes.

# 013300 – SUBMITTAL PROCEDURES

- A. SUBMITTAL SCHEDULE
  - 1. Within no more than seven (7) calendar days after the award of the contract, the contractor shall provide submittals in Adobe Acrobat format to the engineer for approval for all equipment and materials proposed for the work. Equipment and materials for which submittals are not provided within seven (7) days shall be provided as specified other products will not be allowed.

#### B. HARD COPIES

1. Within three (3) days of receiving the approved submittals from the engineer, the contractor shall mail three (3) hard copies of the approved submittals to the owner.

# C. SUBMITTAL APPROVALS

- 1. No work shall be fabricated or equipment ordered until the engineer's approval has been given on the submittals.
- 2. Approval of submittals by the engineer does not relieve the contractor of his responsibility to provide the equipment and materials specified in the contract documents.

# 016000 – PRODUCT REQUIREMENTS

# A. MANUFACTURER'S WARRANTIES

1. All equipment and materials shall be new and installed in accordance with the manufacturer's instructions and conditions for warranty. In the event the contract documents are in conflict with the manufacturer's conditions for warranty, the equipment shall be installed in accordance with the manufacturer's instructions so as not to void any manufacturer's warranties.

# B. PRODUCT SELECTION PROCEDURES

- 1. The contract documents describe systems designed in accordance with the equipment manufacturers specified. The contractor shall bear the cost of all appurtenances required for deviations from the equipment specified. These appurtenances shall include, but are not limited to: architectural, structural, mechanical, and electrical modifications necessary to install the equipment in accordance with the manufacturer's instructions.
- 2. The contractor shall use products of one manufacturer where two or more items of the same type of equipment are required.
- 3. The contractor shall notify the engineer of any changes in the electrical characteristics of the equipment being installed in contradiction to that described in the contract documents.

# C. SUBSTITUTIONS

- 1. In the case where two (2) or three (3) equipment manufacturers are specified, the contractor shall provide equipment by one of the specified manufacturers.
- 2. Any deviation from the specified equipment manufacturers shall constitute a substitution, and shall be submitted to the engineer for approval as a request for substitution. The contractor must certify in his request that the proposed substitution complies with the requirements of the contract documents.

# D. CLEARANCES

1. The contractor shall insure that adequate clearance exists for the installation and maintenance of all work shown on the drawings and described in the specifications.

# E. ACCESSIBILITY

- 1. The contractor shall locate all equipment which must be serviced, operated, or maintained in fully accessible locations.
- 2. Provide access panels (installed in walls or ceilings) or access doors (installed in ductwork) that are indicated or required for access to concealed mechanical and electrical devices which may require future inspection, repair, or adjustment.

# 017329 - CUTTING AND PATCHING

- A. GENERAL
  - 1. Unless otherwise directed, the contractor shall perform all cutting and patching required by the mechanical and electrical work.
  - 2. The contractor shall not cut reinforced concrete or structural steel without the engineer's approval.
  - 3. All patching shall be uniform in appearance and shall match the surrounding surface.
  - 4. The contractor shall repair any damage to the existing building or furnishings resulting from the mechanical and electrical work.

# 017700 – CLOSEOUT PROCEDURES

- A. CONTRACTOR'S WARRANTY
  - 1. The contractor shall warranty all mechanical and electrical work to be free from defects and installation deficiencies for a period of two years after the date of acceptance by the owner.
  - 2. During the contractor's warranty period, the contractor shall repair all mechanical and electrical systems as required, including all necessary parts and labor, at no cost to the owner.

# B. MANUFACTURER'S WARRANTIES

1. The contractor shall deliver to the owner all certificates of manufacturer's warranties which extend beyond the contractor's warranty period.

# 017823 - OPERATION AND MAINTENANCE DATA

# A. OPERATION AND MAINTENANCE MANUALS

- 1. Upon completion of the work, the contractor shall submit to the engineer for approval three (3) sets of operation and maintenance manuals and an Adobe Acrobat file of the operation and maintenance manual for all mechanical and electrical equipment. Included in each manual shall be:
  - a. All manufacturers' technical and product information including warranties, rated capacities, accessories, and installation and start-up instructions.
  - b. Parts lists.
  - c. Approved submittals.
  - d. Equipment start-up reports for the following:
    - 1) Water heaters.
    - 2) Pumps.
    - 3) Air handling units.
  - e. Testing, adjusting, and balancing reports.
  - f. Automatic temperature control shop drawings.
  - g. Other pertinent information for each piece of equipment.

# 017839 – PROJECT RECORD DOCUMENTS

- A. RED-LINED MARK-UP SET
  - 1. Throughout the course of the construction, the contractor shall maintain at the site one (1) set of prints in good condition indicating in red ink any deviations from the original contract drawings.

#### B. RECORD DRAWINGS

1. Upon completion of the work, the contractor shall submit to the engineer for approval a reproducible set of record drawings and an Adobe Acrobat file clearly showing the location of equipment, piping, and ductwork, and any deviations from the original contract drawings.

# 017900 - DEMONSTRATION AND TRAINING

- A. DEMONSTRATION
  - 1. Upon completion of the work, the contractor shall demonstrate to the owner's satisfaction that all components of the work are connected, calibrated, and operating in accordance with the intent of the system design.

# B. TRAINING

1. Thoroughly instruct the owner's representatives for no less than four (4) hours in the proper operation and maintenance of all mechanical and electrical equipment and systems.

# **DIVISION 22 – PLUMBING**

# 220500 – COMMON WORK RESULTS FOR PLUMBING

- A. GENERAL
  - 1. Refer to 230500 COMMON WORK RESULTS FOR MECHANICAL.
- B. SUBMITTALS
  - 1. The contractor shall provide submittals for the following:
    - a. Piping specialties, meters, and gauges.
    - b. General duty valves.
    - c. Insulation.
    - d. Piping.
    - e. Water heaters.

# 220519 – PIPING SPECIALTIES, METERS, AND GAUGES FOR PLUMBING

# A. SEE 230519 – PIPING SPECIALTIES, METERS AND GAUGES FOR HVAC.

# 220523 – GENERAL-DUTY VALVES FOR PLUMBING PIPING

# A. SEE 230523 – GENERAL-DUTY VALVES FOR HVAC PIPING.

# 220529 – HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

A. SEE 230529 – HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT.

# 220700 – PLUMBING INSULATION

# A. SEE 230700 – MECHANICAL INSULATION.

# 221116 – DOMESTIC WATER PIPING

- A. PIPING ABOVE GROUND
  - 1. ASTM B 88, Type L, hard-drawn copper tube with ASME B16.22 wrought copper solder-joint fittings using ASTM B 32, lead-free alloy solder and ASTM B 813 water-washable flux.
- B. PIPE TESTING
  - 1. All piping systems shall be tested for leaks and proved tight in the presence of the engineer or owner's representative before piping is concealed below floors, above ceilings or covered with insulation.
  - 2. Conduct pressure tests with test medium indicated below. Minimum test time shall be 8 hours; additional time may be necessary to conduct an examination for leakage.
    - a. Domestic water: 100 psig, water
- C. DISINFECTION
  - 1. After the final testing for leaks, all new domestic water lines shall be thoroughly flushed to remove foreign material. Before placing the systems in service, the contractor shall engage a qualified service organization, Arc Water Treatment Company of Maryland, Inc., or approved equal, to sterilize the new water lines in accordance with the following procedure:
    - a. Through a 3/4" hose connection in the main entering the building, pump in sufficient sodium hypochlorite to produce a free available chlorine residual of not less than 200 ppm. The contractor shall provide plumbing connections and power for pumping chlorine into the system.
    - b. Proceed upstream from the point of chlorine application opening all faucets and taps until chlorine is detected. Close faucets and taps when chlorine is evident.
    - c. When chlorinated water has been brought to every faucet and tap with a minimum concentration of 200 ppm chlorine, retain this water in the system for three (3) hours.
    - d. <u>Caution:</u> Over-concentration of chlorine and more than three (3) hours of retention may result in damage to piping system. It is not necessary to retain chlorine in any system for twenty-four hours to achieve disinfection. AWWA states that 200 ppm chlorine for three hours is sufficient.
    - e. At the end of the retention period, no less than 100 ppm of chlorine shall be present at the extreme end of the system.
    - f. Proceed to open all faucets and taps and thoroughly flush all new lines until the chlorine residual in the water is less than 1.0 ppm.
    - g. Obtain representative water sample from the system for analysis by a recognized bacteriological laboratory.

- h. If the sample tested for coliform organisms is negative, a letter and laboratory report shall be submitted by the service organization to the contractor, certifying successful completion of the disinfection.
- i. If any samples tested indicate the presence of coliform organisms, the entire disinfection procedure shall be repeated.

# 223400 – FUEL-FIRED DOMESTIC WATER HEATERS

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
  - A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Divisions 1 Specification Sections, apply to this section.
- 1.2 SUMMARY
  - A. This section includes condensing gas-fired storage water heaters for potable water.

# 1.3 REFERENCES

- A. ASME Boiler and Pressure vessel code, section IV, Part HLW
- B. UL 795 "Industrial Gas Heating Equipment"
- C. ANSI Z21.10.3 -2004/CSA 4.3-2004 "Gas Water Heaters"
- D. ASHRAE/IES 90.1-2010
- E. ISO 9001 Quality Management System
- F. CSD-1-2009 "Controls and Safety Devices for Automatically Fired Boilers"
- G. NFPA 70 National Electric Code
- H. NFPA 54 National Fuel Gas Code
- I. NSF/ANSI Standard 61- Drinking Water System Components
- J. ASTM G123 00(2005) "Standard Test Method for Evaluating Stress-Corrosion Cracking of Stainless Alloys with Different Nickel Content in Boiling Acidified Sodium Chloride Solution."
- 1.4 SUBMITTALS
  - A. Product Data: Include rated capacities; shipping, installed, and operating weights; furnished specialties and accessories for each model indicated.
  - B. Shop Drawings: Detail equipment assemblies and indicate dimensions, required clearances, components, and size of each field connection
  - C. Wiring Diagrams: Detail for wiring power signal, differentiate between manufactureinstalled and field-installed wiring

- D. Maintenance Data: Include in the maintenance manuals specified in Division 1. Include maintenance guide and wiring diagrams
- 1.5 REGULATORY REQUIREMENTS
  - A. Conform to applicable code for internal wiring of factory wired equipment
  - B. Units: ETL, UL or CSA Certified as a Complete Gas Fired Water Heater Assembly.
  - C. Gas Train shall comply with ANSI/ASME CSD-1.
  - D. Conform to ASME Section IV. Part HLW for Water Heater construction.
  - E. NOx Emission Standards: When installed and operated in accordance with manufacturer's instructions, condensing water heaters shall comply with the NOx emission standards outlined in South Coast Air Quality Management District (SCAQMD), Rule 1146.1 and other air quality management districts with similar requirements for low NOx emissions..
- 1.6 QUALITY ASSURANCE
  - A. Listing: The water heater shall be listed ETL listed to UL 795 or ANSI Z21.10.3 2004/CSA 4.3-2004 "Gas Water Heaters"
  - B. ASME Compliance: Water heater shall bear the ASME HLW stamp and be National Board listed
  - C. Water heaters shall operate at a minimum 96% thermal efficiency at full firing rate when tested to the ANSI Z21.10.3 thermal efficiency test protocol (DOE 10 CFR 431).
  - D. The water heater shall comply with current ASHRAE 90.1 requirements.
  - E. Water heater manufacturer certified to the ISO 9001 International Quality System.
- 1.7 COORDINATION
  - A. Coordinate size and location of concrete bases.
- 1.8 WARRANTY
  - A. Storage tank, heating surfaces, and combustion chamber shall have a 3-year warranty covering manufacturing or material defects, leaks, the production of rusty water and/or chloride stress corrosion cracking.
  - B. Burner and all heater parts: 1 year

# PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Available Manufacturers: Manufacturer shall be a company specializing in manufacturing the products specified in this section with minimum twenty years' experience. The water heaters shall be manufactured by a company that has achieved certification to the ISO 9001Quality Management System.
- B. The water heaters shall be ETL listed as a complete unit. The heater shall satisfy current Federal Energy Policy Act standards for both thermal efficiency and stand-by heat losses as established for gas fired water heaters.
- C. Acceptable manufacturers shall be subject to compliance with the requirements.
- 2.2 BASIS OF DESIGN
  - 1. A.O. Smith Cyclone Mxi condensing water heater.
- 2.3 CONSTRUCTION
  - A. Water heaters shall be of the Btu/hr input(s) and storage capacity indicated on the equipment schedule.
  - B. Water heater shall have the following features:
    - 1. Modulating gas burner that automatically adjusts the input based on demand.
    - 2. Powered anodes that are non-sacrificial and maintenance free.
    - 3. Seamless glass-lined steel tank construction, with glass lining applied to all waterside surfaces after the tank has been assembled and welded;
    - 4. A down-fired power burner designed for precise mixing of air and gas for optimum efficiency, requiring no special calibration on start-up.
  - C. Water heater shall be approved for 0" clearance to combustibles.
  - D. Control shall be an integrated solid-state temperature and ignition control device with integral diagnostics, graphic user interface, fault history display, and shall have digital temperature readout.
  - E. Water heater shall be a category IV, condensing appliance and vent through PVC or Polypropylene. Water heater shall satisfy requirements for sealed combustion.

#### 2.4 PERFORMANCE

A. When tested to the ANSI Z21.10.3 standard, water heaters shall operate at 96% thermal efficiency at full firing rate.

- B. Water heater shall meet the thermal efficiency and standby heat loss requirements of ASHRAE 90.1 2010.
- 2.5 WATER HEATER TRIM
  - A. As a minimum, the heater shall be equipped with the following:
    - 1. Electronic flame monitoring
    - 2. Electronic low water cutoff
    - 3. An immersion operating control
    - 4. An immersion UL listed temperature limiting device
    - 5. An ASME- rated temperature and pressure relief valve
  - B. Operating and safety controls shall meet the requirements of UL 795 and FM
  - C. Operating and safety controls shall meet the requirements of CSD-1/GEGAP.
  - D. The water heater shall employ an electronic operating control with digital temperature readout. Operator shall be capable of connecting to a building automation system through serial connection using Modbus RTU protocol.

PART 3 - EXECUTION

#### 3.1 INSTALLATION

A. Install water heaters level and plumb in accordance with manufacturer's written instructions and referenced standards.

# 3.2 FINISHING

A. The storage and heating sections shall be completely factory packaged on a single skid, requiring only job site hookup to utilities, venting, and plumbing. The heater shall be insulated to meet ASHRAE 90.1-2010 standby loss requirements and jacketed with a polyethylene liner. Pressure vessel shall include a ball-type drain valve. The heater shall fit properly in the space provided and installation shall conform to all local, state, and national codes.

# 3.3 START-UP

A. Start up on the unit shall be performed by factory trained and authorized personnel. A copy of the startup report shall be provided to the owner.

# DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING

# 230500 – COMMON WORK RESULTS FOR HVAC

- A. GENERAL
  - 1. All mechanical work shall be complete and ready for satisfactory service.
  - 2. The contract drawings are diagrammatic and are intended to convey the general arrangement of the work.
  - 3. The contractor is responsible for the means, methods, and work scheduling associated with the installation of the mechanical systems.

#### B. SUBMITTALS

- 1. The contractor shall provide submittals for the following:
  - a. Piping specialties, meters, and gauges.
  - b. General duty valves.
  - c. Testing, adjusting, and balancing report.
  - d. Insulation.
  - e. Piping.
  - f. Pumps.
  - g. Propeller unit heaters.
  - h. Air duct accessories.
  - i. Modular indoor central-station air-handling units.

#### C. EXISTING SERVICES

1. Verify the size and location of all existing services. Notify the engineer of all discrepancies that exist between the contract documents and the existing services before making any connections to the existing services.

# D. COORDINATION WITH OTHER TRADES

- 1. Coordinate the size and location of roof penetrations and flashing requirements with the work of other trades.
- 2. Coordinate the installation of the mechanical systems with the work of other trades. Provide offsets in piping and ductwork as required at no additional cost to avoid obstructions.

# E. ROUTING OF PIPING AND DUCTWORK

- 1. Route piping and ductwork systems parallel and perpendicular to the building lines. Mount as close as possible to the underside of the building structure.
- F. VIBRATION ISOLATION (GENERAL)

- 1. Support all equipment from the building structure to provide a vibration-free installation.
- 2. Provide flexible connections on all ductwork connections to fans or air handling units.

# G. PIPING (GENERAL)

- 1. Provide manual air vents at all high points and drains at all low points of hydronic piping systems.
- 2. Pitch all hydronic piping 1/4" in 10 feet in the direction of terminal equipment to enable the system to be drained.

# H. IDENTIFICATION

- 1. Identify all mechanical piping and equipment as to its function and equipment number indicated on the drawings.
- 2. Identify all mechanical piping systems with cylindrical self-coiling plastic sheet that snaps over piping insulation and is held tightly in place without the use of adhesive tape or straps. Pipe identification shall be provided with flow arrows and lettering that is at least one inch high.
- 3. Identify all mechanical equipment with engraved, color-coded laminated plastic markers with contact-type, permanent adhesive. Match equipment schedules on the drawings as closely as possible for equipment designations.

# I. PENETRATIONS

- 1. Provide sleeves and packing, and caulk all piping penetrations through walls and floors, and patch to match the adjacent construction. Provide chrome-plated escutcheons on all piping penetrations in exposed locations.
- 2. Provide sleeves and patch all duct penetrations through walls and floors to match the existing construction. Sleeve dimensions shall be 1" larger than insulated duct dimensions. The space between the duct and the sleeve shall be packed with mineral fiber and caulked.

# 230519 – PIPING SPECIALTIES, METERS AND GAUGES FOR HVAC

- A. PIPING SPECIALTIES
  - 1. Strainers:
    - a. Provide strainers of the "Y" or basket types as indicated on the drawings or required to suit the field conditions.
      - 1) Strainers 2" and smaller:
        - a) Provide strainers with bronze bodies conforming to ASTM B
          62, Grade C or cast iron bodies conforming to ASTM A 126, Class B. End connections shall conform to piping system specified. Screens shall be 18-8 stainless steel with 1/32" diameter perforations.
      - 2) Strainers 2-1/2" and larger:
        - a) Strainers shall have 125 psig working pressure, cast-iron body (ASTM A 126, Class B), flanged ends, bolted cover, perforated stainless-steel basket, and bottom drain connection. Screens shall be 18-8 stainless steel with 1/32" diameter perforations.
  - 2. Copper Unions:
    - a. ASME B16.22, wrought-copper alloy body, hexagonal stock, with ball-and-socket joint, metal-to-metal seating surfaces, with soldered ends.

# B. METERS AND GAUGES

- 1. Thermometers:
  - a. Stem type, cast aluminum case, nine inch scale, clear acrylic window, red indicating fluid, black lettering against a white background, with a scale range of 30 deg F to 240 deg F with 2 deg F increments. The adjustable angle brass stem shall have a stem of sufficient length so the end of the stem is near the middle of the pipe in which it is installed without reducing the thickness of any insulation.
  - b. Provide brass thermometer sockets with threaded connections suitable for thermometer stems and temperature control sensing elements in pipeline.
  - c. Furnish with extension necks for insulated piping systems.
- 2. Pressure Gauges:
  - a. Gauges: Cast aluminum case of not less than 4-1/2" diameter, double strength glass window, black lettering on a white background, phosphor bronze bourdon tube with bronze bushings, recalibration from the front of

the dial, 99% accuracy over the middle half of the scale, 98.5% accuracy over the remainder of the scale, with scale range of 0 psi to 100 psi [0 psi to 200 psi (fire protection systems)].

- b. Valves: 1/4" brass or stainless-steel needle type.
- c. Snubbers: Brass bushing with corrosion-resistant, porous-metal disc of material suitable for system fluid and working pressure.

# 230523 – GENERAL-DUTY VALVES FOR HVAC PIPING

- A. BALL VALVES
  - 1. 2" and Smaller:
    - a. 150 psi steam working pressure (SWP), 600 psi non-shock water, oil, gas (WOG) pressure, solder-end, two-piece, cast bronze body, chrome plated brass/bronze ball, standard port, tetrafluoroethylene (TFE) seats and seals, separate packnut with adjustable stem packing, anti-blowout stem, and vinyl covered steel handle. Valve ends shall have extended solder connections and be manufactured to comply with MSS SP-110.
  - 2. Where piping is insulated, ball valves shall be equipped with 2" extended handles of non-thermal conductive material. Also, provide a protective sleeve that allows operation of the valve without breaking the vapor seal or disturbing the insulation.

# B. HIGH PERFORMANCE BUTTERFLY VALVES

- 1. MSS SP-68, API 609 seat pressure and temperature ratings, ANSI B1634A body pressure and temperature ratings, ANSI B16.5 flange dimensions, ISO 5211, EN 12116 actuator mounting top works, capable of bi-directional dead-end service at full-rated pressure without use of downstream flange.
- 2. Single-flange, full-lug, 285-psig CWP rating.
- 3. Carbon-steel body, offset design, extended-neck for insulation, permanently lubricated 300-series stainless-steel bushings with graphite and modified PTFE seats, graphite packing and gasket, one-piece duplex stainless-steel stem, and stainless-steel disc. Maximum steam rating of 50 psig.
- 4. Valves 3" and smaller shall have lever lock operator; valves 4" and larger shall have weatherproof gear operator.
- 5. Basis-of-design product: Nibco Model LCS6822-3/5, or a comparable product by one of the following:
  - a. Jamesbury, Inc.
  - b. Bray Controls; a division of Bray International
  - c. Xomox Corporation

# C. CALIBRATED BALANCING VALVES

- 1. 2" and Smaller:
  - a. Bronze body, ball type, 125-psig working pressure, 250 deg F maximum operating temperature, and having threaded ends. Valves shall have calibrated orifice or venturi, connections for portable differential pressure meter with integral seals, and be equipped with a memory stop to retain set position.
- 2. 2-1/2" and Larger:
  - a. Cast-iron or steel body, ball type, 125-psig working pressure, 250 deg F maximum operating temperature, and having flanged connections. Valves shall have calibrated orifice or venturi, connections for portable differential pressure meter with integral seals, and be equipped with a memory stop to retain set position.

## D. SWING CHECK VALVES

- 1. 2" and Smaller:
  - a. Class 150 bronze swing check valve with bronze disc, ASTM B 62 bronze body and seat with regrinding-type bronze disc, y-pattern design, soldered or threaded end connections, and having 300 psig cold working pressure rating. Check valves shall be equal to Nibco Model S-433-B or T-433-B.

# 230529 – HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT

A. Adjustable steel clevis, equal to B-Line B3100, with galvanized sheet metal shield, equal to B-Line B3151 Series.

## 230593 – TESTING, ADJUSTING, AND BALANCING FOR HVAC

- A. SCOPE
  - 1. All heating, ventilating and air conditioning (HVAC) systems shall be tested, adjusted and balanced by an independent AABC or NEBB certified contractor.
- B. TOLERANCE
  - 1. Test, adjust and balance all air and hydronic systems to within 10% of the quantities indicated on the drawings.

## C. MEASUREMENTS AND ADJUSTMENTS

- 1. Measure and record the following for each pump:
  - a. Manufacturer's name, model number, and serial number.
  - b. Motor horsepower rating.
  - c. Motor rpm.
  - d. Efficiency rating.
  - e. Starter thermal protection element rating.
  - f. Nameplate and measured voltage, each phase.
  - g. Nameplate and measured amperage, each phase.
  - h. Brake horsepower.
  - i. Flow rate.
  - j. Head.
- 2. Measure and record the following for each air handling unit:
  - a. Manufacturer's name, model number, and serial number.
  - b. Fan motor horsepower rating.
  - c. Motor rpm.
  - d. Efficiency rating.
  - e. Starter thermal protection element rating.
  - f. Nameplate and measured voltage, each phase.
  - g. Nameplate and measured amperage, each phase.
  - h. Brake horsepower.
  - i. Measure and record static air pressure conditions across fans, coils and filters.
  - j. Adjust outside air damper for the design conditions.
  - k. Measure and record system measurements at air inlets and outlets.
- 3. Permanently mark equipment settings, including balancing valve positions, control settings, and similar devices allowing settings to be restored. Set and lock all memory stops.
- D. TESTING, ADJUSTING, AND BALANCING REPORT

1. Report all results on AABC or NEBB standard forms.

## 230700 - HVAC INSULATION

- A. DUCT INSULATION
  - 1. Flexible Fiberglass Insulation:
    - a. Minimum nominal density of 0.75 pcf and thermal conductivity of not more than 0.3 at 75 deg F, rated for service to 250 deg F. Foil-scrim-kraft (FSK) vapor barrier jacket having a maximum permeance of 0.02 perms shall be factory applied to insulation.
    - b. Insulation thickness:
      - 1) 2" for all supply and outdoor air ductwork located in concealed ceiling spaces.
  - 2. Rigid Fiberglass Insulation:
    - a. Owens-Corning fiberglass corporation Type 703 rigid equipment insulation; fibrous glass wool with rosin binder; 24" x 48" semi-rigid boards for equipment insulation, 4.2 lb/cu.ft. Density; 0.24 Btu/h/sq.ft./deg F/in. Max thermal conductivity for 50 deg F mean temperature, 0.27 max for 100 deg F mean temperature, 0.33 max for 200 deg F mean temperature, ASTM C 177.
    - b. Follow manufacturer's recommendations for installation of insulating materials.
    - c. Apply PVA and other mastic coatings by palming, troweling, or spraying.
    - d. Install glass-fiber cloth embedded in mastic to conceal dry weave of cloth.
    - e. Lap cloth joints a minimum of 2" and apply with a smooth unbroken surface with a minimum finished dried thickness of 1/16". Apply a double layer of reinforcing cloth in mastic to outside corners of insulation. Round outside corners of insulation.
    - f. Insulation thickness:
      - 1) 2" for all supply and outdoor air ductwork located in mechanical equipment rooms.

### B. PIPE INSULATION

- 1. Rigid Fiberglass Insulation:
  - a. Minimum nominal density of 3 pcf, thermal conductivity of not more than 0.23 at 75 deg F, minimum compressive strength of 25 psf at 10% deformation, rated for service to 450 deg F. Insulation shall have a factory applied, white, kraft reinforced foil vapor barrier all service jacket with a self-sealing pressure sensitive adhesive lap, maximum permeance of 0.02 perms and minimum beach puncture resistance of 50 units. Provide white, PVC fitting covers to all fittings.

- b. Shields and inserts:
  - 1) Piping systems 3" in diameter or less shall be supported by placing a galvanized steel shield, minimum 6" in length, under the insulation at each hanger.
  - 2) For piping systems larger than 3" in diameter, provide a calcium silicate or polyisocyanurate, minimum 140 psi compressive strength, insert and a galvanized steel shield, minimum 6" in length, under the insert at each hanger.
  - 3) Inserts and shields shall be a minimum 180 degree coverage on the bottom of the supported piping.
  - 4) Pre-compressed 20 lb density molded fiberglass blocks, Hamfab or equal, of the same thickness as adjacent insulation may be substituted for calcium silicate inserts with one 1"x6" block for piping through 2" and three 1"x6" blocks for piping through 4".
  - 5) Wood blocks will not be accepted.
- c. Insulation thickness:
  - 1) Domestic water -1" thickness
  - 2) Heating water 2" thickness

# 231123 – FACILITY NATURAL-GAS PIPING

- A. 2" and Smaller:
  - 1. ASTM A 53, Grade B, Type E or S, Schedule 40 black steel pipe with ASTM a 197/ANSI B16.3 class 150 black malleable iron fittings with threaded joints.
- B. All natural gas piping shall be electrically continuous and bonded to any grounding electrode, in accordance with NFPA 70.
- C. All natural gas piping shall be painted yellow with a rust-inhibiting paint.
- D. Gas Valves:
  - 1. 4" and smaller:
    - a. AGA approved, 600 psi cold working pressure (CWP) @ 100 deg F (1/2" 2"), 400 psi CWP @ 100 deg F (2-1/2" 4"), threaded-end, one-piece, forged brass body and ends, chrome plated brass ball, full port, PTFE seats, seals and packing, brass threaded packing gland, Viton "O" ring stem seal, brass anti-blowout stem, and vinyl covered steel handle. Valves shall be equipped with a plugged 1/8" NPT test gauge connection.
- E. Pipe Testing:
  - 1. All piping systems shall be tested for leaks and proved tight in the presence of the engineer or owner's representative before piping is concealed below floors, above ceilings or covered with insulation.
  - 2. Conduct pressure tests with test medium indicated below. Minimum test time shall be 8 hours; additional time may be necessary to conduct an examination for leakage.
    - a. Natural gas: 100 psig, air

## 232113 - HYDRONIC PIPING

- A. HEATING WATER PIPING
  - 1. Black steel pipe 2-1/2" and larger:
    - a. ASTM A 53, Grade B, Type E or S, Schedule 40 black steel pipe with ASTM A 234 Grade WPB/ANSI B16.9 standard weight, seamless, carbon steel weld fittings.
    - b. Flanged joints:
      - 1) Select appropriate gasket material, size, type, and thickness for service application. Install gasket concentrically positioned. Use suitable lubricants on bolt threads.
    - c. Welded joints:
      - 1) Construct joints according to AWS D10.12, using qualified processes and welding operators.
- B. PIPE TESTING
  - 1. All piping systems shall be tested for leaks and proved tight in the presence of the engineer or owner's representative before piping is concealed below floors, above ceilings or covered with insulation.
  - 2. Conduct pressure tests with test medium indicated below. Minimum test time shall be 8 hours; additional time may be necessary to conduct an examination for leakage.
    - a. Heating water: 100 psig, water

## 232123 – PUMPS

#### A. MANUFACTURERS

- 1. Subject to compliance with requirements, provide products by one of the following manufacturers:
  - a. Bell & Gossett.
  - b. Taco.

### B. 3-PIECE INLINE PUMPS – PERMANENTLY LUBRICATED

- 1. Pumps shall be of a horizontal, permanently lubricated type, specifically designed for quiet operation. Suitable for 225 ≏M № F operation at 175 psig working pressure.
- 2. Pumps shall be single stage, vertical split case design, in cast iron bronze fitted construction (or all bronze construction for domestic water applications). Pump internals shall be capable of being services without disturbing piping connections.
- 3. Pumps shall be composed of three separable components a motor, bearing assembly, and pump end (wet end). The motor shaft shall be connected to the pump shaft via a replaceable flexible coupler.
- 4. Pumps shall have a solid SAE1144 steel shaft supported by two sealed ball bearings. A non-ferrous shaft sleeve shall be employed to completely cover the wetted area under the seal.
- 5. Pumps shall be equipped with an internally flushed mechanical seal assembly. Seal assembly shall have a brass housing, Buna bellows and seat gasket, stainless steel spring, and be of a carbon ceramic design with the carbon face rotating against a stationary ceramic face.
- 6. Bearing assembly shaft shall connect to either a cast bronze impeller. Impeller shall be hydraulically and dynamically balanced, keyed to the shaft and secured by a locking capscrew or nut.
- 7. A flexible type coupling shall be employed between the pump and motor.
- 8. Pumps shall be designed to allow for true back pull-out access to the pump's working components for ease of maintenance.
- 9. Pump volute shall be of cast iron design for heating or chilled water systems and cast bronze for domestic water systems. The connection style on cast iron and bronze pumps shall be flanged. Volute shall include gauge ports at nozzles, and vent and drain ports.
- 10. To ensure alignment the motor shall be mounted to the bearing assembly via a bolted motor bracket assembly, and a rubber motor mount shall be used to assist in aligning the motor shaft with the pump shaft.
- 11. Motors shall meet scheduled horsepower, speed, voltage, and enclosure design. Motors through 1 HP shall be resilient mounted, motors over 1.5 HP shall be rigid mounted. Motors shall have permanently lubricated ball bearings and must be completely maintenance free. Motors shall be non-overloading at any point on the pump curve and shall meet NEMA specifications.

- 12. Pump shall be of a maintainable design and for ease of maintenance shall use machine fit parts and not press fit components.
- 13. Pump manufacturer shall be ISO-9001 certified and be of U.S. manufacturer.
- 14. Each pump shall be factory tested and name-plated before shipment and shall be provided with a (3) year warranty from date of installation.
- 15. Basis of Design: Bell & Gossett Series 60.

## 233113 - METAL DUCTS

- A. Galvanized sheet metal ductwork
  - 1. ASTM A525 or ASTM A527 galvanized steel sheet of lock forming quality. Galvanized coating to be 0.90 ounces per square foot, both sides of sheet, G90 in accordance with ASTM A90.
  - 2. All sheet metal used for ductwork construction shall be 24 gauge or heavier.
  - 3. Duct sizes indicated on plans are net inside dimensions. Where duct liner is specified, dimensions shall be net, inside of liner.
  - 4. Provide elbows and tees with a center line radius to width or diameter ratio of 1.5 wherever space permits. When a shorter radius must be used due to limited space, install single wall sheet metal turning vanes. Where space will not allow, and the c value of the radius elbow, as given in SMACNA publications, exceeds 0.31, provide rectangular elbows with turning vanes. Square throat-radius heel elbows shall not be acceptable.
  - 5. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible. Divergence upstream of equipment shall not exceed 30 degrees. Convergence downstream of equipment shall not exceed 45 degrees.
  - 6. Seal all duct in accordance with SMACNA seal class "A". All seams, joints, and penetrations shall be sealed. Install sealants in strict accordance with the manufacturer's recommendations, paying special attention to temperature limitations. Allow sealant to fully cure before pressure testing ductwork, or before startup of air handling systems.
- B. All ductwork shall be fabricated and installed in accordance with the requirements of the SMACNA HVAC duct construction standards, latest edition. Ductwork shall be constructed to the following pressure classifications:
  - 1. Supply and return air ductwork: 1.0" w.c.
  - 2. Outdoor and exhaust air ductwork: 0.50" w.c.

## 233116 - NONMETAL DUCTS

### A. WATER HEATER INTAKE AND EXHAUST PIPING

1. ASTM D 2241 Schedule 40 virgin rigid polyvinyl chloride (PVC) pipe. Pipe shall be iron pipe size (IPS) conforming to ASTM D 1785. Provide PVC pressure pipe fittings joined with solvent cement.

## 233300 – AIR DUCT ACCESSORIES

### A. MOTOR OPERATED DAMPERS

- 1. AMCA-rated opposed blade design with galvanized steel frame and blades.
  - a. Secure blades to 1/2" diameter, zinc plated axles using zinc plated hardware, with nylon blade bearings, blade linkage hardware of zinc plated steel and brass, ends sealed against spring stainless steel blade bearings, and thrust bearings at each and every blade.
  - b. Operating temperature range from minus 40 to plus 200 deg F.
  - c. Provide closed cell neoprene edging.

# 237313 - MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNITS

PART 1 - GENERAL

- 1.1 WORK INCLUDED
  - A. Applied Air Handling Units.
- 1.2 QUALITY ASSURANCE
  - A. Air Coils: Certify capacities, pressure drops and selection procedures in accordance with current AHRI Standard 410.
  - B. Air handling units with fan sections utilizing single fans shall be rated and certified in accordance with AHRI Standard.
- 1.3 SUBMITTALS
  - A. No equipment shall be fabricated or delivered until the receipt of approved shop drawings from the Owner or Owner's approved representative.
  - B. AHU manufacturer shall provide the following information with each shop drawing/product data submission:
    - 1. All electrical, piping, and ductwork requirements, including sizes, connection locations, and connection method recommendations.
    - 2. Each component of the unit shall be identified and mechanical specifications shall be provided for unit and accessories describing construction, components, and options.
    - 3. All performance data, including capacities and airside and waterside pressure drops, for components.
    - 4. Fan curves shall be provided for fans with the design operating points indicated. Data shall be corrected to actual operating conditions, temperatures, and altitudes.
    - 5. A filter schedule must be provided for each air handling unit supplied by the air handling unit manufacturer. Schedule shall detail unit tag, unit size, corresponding filter section location within the AHU, filter arrangement (e.g. angled/flat), filter depth, filter type (e.g. pleated media), MERV rating, and filter quantity and size.
    - 6. A coil valve coordination schedule shall be provided for each air handling unit supplied by the air handling unit manufacturer. Schedule shall detail unit tag, coil type and corresponding section location within the AHU, valve style (e.g. global, ball), valve type (e.g. electronic 2-way/3-way), valve position (e.g. normally open/closed), size, flow coefficient (CV), and close-off pressure.
    - 7. An electrical MCA MOP schedule shall be provided for each electrical circuit to which field-power must be supplied. Schedule to detail unit tag, circuit description, voltage/phase/hertz, Minimum Circuit Ampacity (MCA), and calculated Maximum Overcurrent Protection (MOP).

- 8. Sound data shall be provided using AHRI 260 test methods. Unit discharge, inlet, and radiated sound power levels in dB shall be provided for 63, 125, 250, 500, 1000, 2000, 4000 and 8000Hz.
- C. The AHU manufacturer shall provide appropriate sets of submittals as referenced in the General Conditions and shall submit to the Owner electronic copies of the IOM.
- D. The AHU manufacturer shall list any exceptions to the specification.

# 1.4 REGULATOR REQUIREMENTS

- A. Agency Listings/Certifications
  - 1. Unit shall be manufactured to conform to UL 1995 and shall be listed by either UL/CUL or ETL. Units shall be provided with listing agency label affixed to the unit. In the event the unit is not UL/CUL or ETL approved, the contractor shall, at his/her expense, provide for a field inspection by a UL/CUL or ETL representative to verify conformance. If necessary, contractor shall perform modifications to the unit to comply with UL/CUL or ETL as directed by the representative, at no additional expense to the owner.
  - 2. Certify air handling units in accordance with AHRI Standard 430. Units shall be provided with certification label affixed to the unit. If air handling units are not certified in accordance with AHRI Standard 430, contractor shall be responsible for expenses associated with testing of units after installation to verify performance of fan(s). Any costs incurred to adjust fans to meet scheduled capacities shall be the sole responsibility of the contractor.
  - 3. Certify air handling coils in accordance with AHRI Standard 410. Units shall be provided with certification label affixed to the unit. If air handling coils are not certified in accordance with AHRI Standard 410, contractor shall be responsible for expenses associated with testing of coils after installation to verify performance of coil(s). Any costs incurred to adjust coils to meet scheduled capacities shall be the sole responsibility of the contractor.

# 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's installation instructions for rigging, unloading, and transporting units.
- B. Units shall ship in sections. Units shall have tags and airflow arrows on each section to indicate location and orientation in direction of airflow. Cost associated with non-conformance to shop drawings shall be the responsibility of the manufacturer. Each section shall have lifting lugs for field rigging, lifting and final placement of AHU section(s). AHU's less than 100-inches wide shall allow for forklift transport and maneuverability on the jobsite.
- C. Deliver units to jobsite with fan motor(s), sheave(s), and belt(s) completely assembled and mounted in units.

- D. Unit shall be shipped in a clear shrink-wrap or stretch-wrap to protect unit from intransit rain and debris per ASHRAE 62.1 recommendations.
- E. Installing contractor shall be responsible for storing AHU in a clean, dry place and protect from weather and construction traffic. Handle carefully to avoid damage to components, enclosures, and finish.

## 1.6 START-UP AND OPERATING REQUIREMENTS

A. Do not operate units for any purpose, temporary or permanent, until ductwork is clean, filters in place, bearings lubricated (if applicable), condensate properly trapped, piping connections verified and leak-tested, belts aligned and tensioned, all shipping braces removed, bearing set screws torqued, and fan has been test run under observation.

### 1.7 WARRANTY

A. AHU manufacturer shall provide, at no additional cost, a standard parts warranty that covers a period of two years from unit start-up or 30 months from shipment, whichever occurs first. This warrants that all products are free from defects in material and workmanship and shall meet the capacities and ratings set forth in the equipment manufacturer's catalog and bulletins.

## PART 2 - PRODUCTS

# 2.1 ACCEPTABLE MANUFACTURERS

- A. Trane Performance Climate Changer
- B. York Solution
- C. Daikin Vision Plus
- 2.2 GENERAL
  - A. Manufacturer to provide an integral base frame. Unit base frames not constructed of galvanized steel shall be chemically cleaned and coated with both a rust-inhibiting primer and finished coat of rust-inhibiting enamel.
- 2.3 UNIT CASING
  - A. Unit manufacturer shall ship unit in segments as specified by the contractor for ease of installation in tight spaces. The entire air handler shall be constructed of galvanized steel. Casing finished to meet ASTM B117 250-hour salt-spray test. The removal of access panels or access doors shall not affect the structural integrity of the unit. All removable panels shall be gasketed. All doors shall have gasketing around full perimeter to prevent air leakage. Contractor shall be responsible to provide connection flanges and all other framework that is needed to properly support the unit.

- B. Casing performance Casing air leakage shall not exceed leak class 6 (CL = 6) per ASHRAE 111 at specified casing pressure, where maximum casing leakage (cfm/100 ft2 of casing surface area) = CL X P0.65.
- C. Air leakage shall be determined at 1.00 times maximum casing static pressure up to 8 inches w.g. Specified air leakage shall be accomplished without the use of caulk. Total estimated air leakage shall be reported for each unit in CFM, as a percentage of supply air, and as an ASHRAE 111 Leakage Class.
- D. Under 55F supply air temperature and design conditions on the exterior of the unit of 81F dry bulb and 73F wet bulb, condensation shall not form on the casing exterior. The AHU manufacturer shall provide tested casing thermal performance for the scheduled supply air temperature plotted on a psychrometric chart. The design condition on the exterior of the unit shall also be plotted on the chart. If tested casing thermal data is not available, AHU manufacturer shall provide, in writing to the Engineer and Owner, a guarantee against condensation forming on the unit exterior at the stated design conditions above. The guarantee shall note that the AHU manufacturer will cover all expenses associated with modifying units in the field should external condensate form on them. In lieu of AHU manufacturer providing a written guarantee, the installing contractor must provide additional external insulation on AHU to prevent condensation.
- E. Unit casing (wall/floor/roof panels and doors) shall be able to withstand up to 1.5 times design static pressure, or 8-inch w.g., whichever is less, and shall not exceed 0.0042 per inch of panel span (L/240).
- F. Floor panels shall be double-wall construction and designed to support a 250-lb load during maintenance activities and shall deflect no more than 0.0042 per inch of panel span.
- G. Unit casing panels shall be 2-inch double-wall construction, with solid galvanized exterior and solid galvanized interior, to facilitate cleaning of unit interior.
- H. Unit casing panels (roof, walls, floor) and doors shall be provided with a minimum thermal resistance (R-value) of 13 Hr\*Ft2\*deg F/BTU.
- I. Unit casing panels (roof, walls, floor) and external structural frame members shall be completely insulated filling the entire panel cavity in all directions so that no voids exist. Panel insulation shall comply with NFPA 90A.
- J. Casing panel inner liners must not extend to the exterior of the unit or contact the exterior frame. A mid-span, no-through-metal, internal thermal break shall be provided for all unit casing panels.
- K. Access panels and/or access doors shall be provided in all sections to allow easy access to drain pan, coil(s), motor, drive components and bearings for cleaning, inspection, and maintenance.

L. Access panels and doors shall be fully removable without the use of specialized tools to allow complete access of interior surfaces.

## 2.4 ACCESS DOORS

- A. Access doors shall be 2-inch double-wall construction. Interior and exterior shall be of the same construction as the interior and exterior wall panels.
- B. Gasketing shall be provided around the full perimeter of the doors to prevent air leakage.
- C. Door hardware shall be surface-mounted to prevent through-cabinet penetrations that could likely weaken the casing leakage and thermal performance.
- D. Handle hardware shall be designed to prevent unintended closure.
- E. Access doors shall be hinged and removable without the use of specialized tools to allow.
- F. Hinges shall be interchangeable with the door handle hardware to allow for alternating door swing in the field to minimize access interference due to unforeseen job site obstructions.
- G. Door handle hardware shall be adjustable and visually indicate locking position of door latch external to the section.
- H. All doors shall be a 60-inch high when sufficient unit height is available, or the maximum height allowed by the unit height.
- I. Multiple door handles shall be provided for each latching point of the door necessary to maintain the specified air leakage integrity of the unit.

### 2.5 FANS

- A. Fan sections shall have a minimum of one hinged and latched access door located on the drive side of the unit to allow inspection and maintenance of the fan, motor, and drive components. Construct door(s) per Access Door Section above.
- B. Provide fans of type and class as specified on the schedule. Fan shafts shall be solid steel, coated with a rust-inhibiting coating, and properly designed so that fan shaft does not pass through first critical speed as unit comes up to rated RPM. All fans shall be statically and dynamically tested by the manufacturer for vibration and alignment as an assembly at the operating RPM to meet design specifications. Fans that are selected with inverter balancing shall first be dynamically balanced at design RPM. The fans then will be checked in the factory from 25% to 100% of design RPM to insure they are operating within vibration tolerance specifications, and that there are no resonant frequency issues throughout this operating range. Inverter balancing that requires lockout frequencies inputted into a variable frequency drive to in order to bypass

resonant frequencies shall not be acceptable. If supplied in this manner by the unit manufacturer, the contractor will be responsible for rebalancing in the field after unit installation. Fans selected with inverter balancing shall have a maintenance free, circumferential conductive micro fiber shaft grounding ring installed on the fan motor to discharge shaft currents to ground.

C. All fans shall be mounted on isolation bases. Internally-mounted motor shall be on the same isolation base. Fan and motor shall be internally isolated with spring isolators. A flexible connection shall be installed between fan and unit casing to ensure complete isolation. Flexible connection shall comply with NFPA 90A and UL 181 requirements.

## D. MOTORS AND DRIVES

- 1. All motors and drives shall be factory-installed and run tested. All motors shall be installed on a slide base to permit adjustment of belt tension. Slide base shall be designed to accept all motor sizes offered by the air-handler manufacturer for that fan size to allow a motor change in the future, should airflow requirements change. Fan sections without factory-installed motors shall have motors field installed by the contractor. The contractor shall be responsible for all costs associated with installation of motor and drive, alignment of sheaves and belts, run testing of the motor, and balancing of the assembly.
- 2. Motors shall meet or exceed all NEMA Standards Publication MG 1 2006 requirements and comply with NEMA Premium efficiency levels when applicable. Motors shall comply with applicable requirements of NEC and shall be UL Listed.
- 3. Fan Motors shall be heavy duty, open drip-proof operable at 460 volts, 60Hz, 3phase. If applicable, motor efficiency shall meet or exceed NEMA Premium efficiencies.
- 4. Motors shall have a +/- 10 percent voltage utilization range to protect against voltage variation.
- 5. Manufacturer shall provide for each fan a nameplate with the following information to assist air balance contractor in start up and service personnel in maintenance: a. Fan and motor sheave part number b. Fan and motor bushing part number c. Number of belts and belt part numbers d. Fan design RPM and motor HP e. Belt tension and deflection f. Center distance between shafts

# 2.6 COILS

- A. Coils section header end panel shall be removable to allow for removal and replacement of coils without impacting the structural integrity of the unit.
- B. Coils shall be manufactured with plate fins to maximize airside thermal efficiency. Fin tube holes shall have drawn and belled collars to maintain consistent fin spacing to ensure performance and air pressure drop across the coil as scheduled. Tubes shall be mechanically expanded and bonded to fin collars for maximum thermal conductivity. Use of soldering or tinning during the fin-to-tube bonding process is not acceptable due to the inherent thermal stress and possible loss of bonding at that joint.

- C. Construct coil casings of galvanized steel. End supports and tube sheets shall have belled tube holes to minimize wear of the tube wall during thermal expansion and contraction of the tube.
- D. All coils shall be completely cleaned prior to installation into the air handling unit. Complete fin bundle in direction of airflow shall be degreased and steam cleaned to remove any lubricants used in the manufacturing of the fins, or dirt that may have accumulated, in order to minimize the chance for water carryover.

# 2.7 FILTERS

- A. Provide factory-fabricated filter section of the same construction and finish as unit casings. Filter section shall have side access filter guides and access door(s) extending the full height of the casing to facilitate filter removal. Construct doors in accordance with Access Door Section above. Provide fixed filter blockoffs as required to prevent air bypass around filters. Blockoffs shall not need to be removed during filter replacement. Filters to be of size, and quantity needed to maximize filter face area of each particular unit size.
- B. Filter type, MERV rating, and arrangement shall be provided as defined in project schedule.
- C. Manufacturer shall provide one set of startup filters.

## **DIVISION 26 – ELECTRICAL**

### 260500 – COMMON WORK RESULTS FOR ELECTRICAL

#### A. GENERAL

- 1. All electrical work shall be performed in accordance with the latest edition of the National Electric Code (NEC).
- 2. All electrical work shall be complete and ready for satisfactory service.
- 3. The contract drawings are diagrammatic and are intended to convey the general arrangement of the work.
- 4. The contractor is responsible for the means, methods, and work scheduling associated with the installation of the electrical systems.

#### B. SUBMITTALS

- 1. The contractor shall provide submittals for the following:
  - a. Wiring devices.
  - b. Enclosed controllers.

## C. EXISTING SERVICES

1. Verify the size and location of all existing services. Notify the engineer of all discrepancies that exist between the contract documents and the existing services before making any connections to the existing services.

#### D. COORDINATION WITH OTHER TRADES

1. Coordinate the installation of the electrical systems with the work of other trades.

#### E. IDENTIFICATION

1. Identify all electrical equipment with engraved, color-coded laminated plastic markers with contact-type, permanent adhesive. Match equipment schedules on the drawings as closely as possible for equipment designations.

#### F. PENETRATIONS

1. Provide sleeves and caulk all conduit penetrations through walls and floors, and patch to match the adjacent construction.

# 260519 – LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

- A. WIRING
  - 1. All wiring shall be a minimum No. 12 AWG soft drawn copper, 98% conductivity, 600 volt insulation, NEC Type THHN or THWN, installed in minimum 3/4" electrical metallic tubing (EMT).
  - 2. Wiring smaller than No. 12 AWG shall not be permitted, except No. 14 AWG and smaller for low voltage control, etc.
  - 3. All conductors No. 8 AWG and larger shall be stranded.

## B. BRANCH CIRCUITS

- 1. Branch circuit numbers are indicated adjacent to wiring devices and fixtures. Provide all branch circuit wiring required to complete the wiring system.
- 2. The wire size indicated for the homerun shall be used throughout the circuit.

# 260526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- A. EQUIPMENT GROUNDING
  - 1. All equipment, conduit systems, and metallic enclosures of electrical devices and equipment shall be completely grounded in accordance with the requirements of the NEC, latest edition.

## 260533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

- A. METAL CONDUIT AND TUBING
  - 1. Indoor locations:
    - a. Conduit: Electrical metallic tubing (EMT).
    - b. Fittings: All steel, set screw, water tight, concrete tight fittings.
  - 2. Motor connections:
    - a. Conduit: Flexible metal conduit with an outer liquid tight, nonmetallic, sunlight-resistant jacket.
    - b. Fittings: Compression type malleable iron liquid tight connectors.
  - 3. All conduit work in finished areas shall be concealed.
- B. BOXES
  - 1. Pull and junction boxes shall be galvanized steel, non pre-punched type with captive screws and covers.
  - 2. Device and outlet boxes shall be galvanized steel.
- C. FILL
  - 1. Raceways and boxes shall be sized in accordance with the NEC and shall be of sufficient size to provide free space for all enclosed conductors.

## **262726 – WIRING DEVICES**

- A. SAFETY SWITCHES
  - 1. Non-fusible switch assemblies:
    - a. 600 volt or 240 volt as noted on drawings, quick-make, quick-break, load interrupter, enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in on position. Handle lockable in off position.
  - 2. Enclosures: NEMA Type 1 indoor locations.

# 262913 – ENCLOSED CONTROLLERS

- A. MAGNETIC MOTOR CONTROLLERS NON-REVERSING
  - 1. NEMA ICS 2, AC general-purpose, full voltage, non-reversing type, general purpose Class A magnetic controller for induction motors rated in horsepower with overload relay.
  - 2. Fused primary and fused 120V secondary control power transformer, Hand/Off/Automatic (HOA) selector switch, and red pilot light in front cover.
  - 3. Contacts shall be totally enclosed, double-break, silver-cadmium-oxide power contacts. Contact inspection and replacement shall be possible without disturbing line or load wiring.
  - 4. Wiring shall be straight-through wiring with all terminals clearly marked.
  - 5. Overload relay shall be NEMA ICS melting alloy with one-piece thermal unit construction.
  - 6. Unit shall be designed for the addition of either a normally open or normally closed auxiliary contact and shall be field convertible.
  - 7. Enclosures shall be NEMA Type 1 indoor locations.
  - 8. Size and number of poles shall be as shown on the drawings.

## B. COMBINATION MAGNETIC MOTOR STARTERS

- 1. Combine magnetic motor starters with nonfusible disconnect switch in common enclosure. Switch shall have a color coded externally operated handle. Operating handle shall give positive visual indication of On/Off with red and black color-coding.
- 2. Nonfusible switch assemblies: NEMA KS 1, enclosed knife switch with externally operable handle and visible blades. Operating handle shall give positive visual indication of On/Off with a color-coded operating handle.
- 3. Enclosures shall be NEMA Type 1 indoor locations.
- 4. Size and number of poles shall be as shown on the drawings.

# C. MANUAL MOTOR STARTERS

- 1. Description: NEMA ICS 2, AC general-purpose Class A manually operated, fullvoltage nonreversing controller for fractional horsepower induction motors, single- or two-pole, as required, toggle operator, with thermal overload unit.
- 2. Mounting: Flush-mounted wherever possible, surface-mounted elsewhere, with cover plates to suit the mounting.
- 3. Enclosures shall be NEMA Type 1 indoor locations.
- 4. Provide red pilot light and key operator where indicated.
- 5. Equal to Square D Class 2510 Type F.