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### **CORRESPONDENCE - July 15, 2022**

The Honorable Senator Guy Guzzone Chair, Senate Budget and Taxation 3 West Miller Senate Office Building Annapolis, MD 21401 The Honorable Delegate Ben Barnes Chair, House Appropriations Room 121 House Office Building Annapolis, MD 21401

Dear Chairs Guzzone and Barnes,

The 2022 Joint Chairmen's Report states:

.... provided that \$300,000 of this appropriation may not be expended until the Interagency Commission on School Construction (IAC) submits to the budget committees two reports on Chapter 14 of 2018 implementation requirements related to the Statewide Facilities Assessment, the Integrated Master Facility Asset Library (IMFAL), and recommendations from the Workgroup on the Assessment and Funding of School Facilities. The first report shall be submitted by July 15, 2022, and include:

- (1) detailed information on steps taken by IAC to resolve outstanding data and dataset issues with the Department of Legislative Services and local education agencies (LEA) including, but not limited to:
  - (a) receipt of requested datasets;
  - (b) development of a data dictionary;
  - (c) confirmation of the accuracy of the facility condition index at the school, system, and LEA level; and
  - (d) calculations for, and confirmation of, the accuracy of the enrollment growth index;
- (2) revisions to Maryland Educational Sufficiency Standards and details as to how those standards will be used in future school facility assessments starting in fiscal 2022;
- (3) regulations adopted by IAC that support workgroup decisions involving the use of assessment data and revised sufficiency standards; and
- (4) progress on IMFAL, including the implementation schedule for the business processing system; system costs for fiscal 2022, 2023 and 2024; and progress on other key system software and/or components needed to integrate school construction data for LEA use.

As requested in the FY 2023 State Operating Budget (SB 290), the Interagency Commission on School Construction is providing the first report on Chapter 14 of 2018 implementation requirements related to the Statewide Facilities Assessment (SFA), the Integrated Master Facility Asset Library, and recommendations from the Workgroup on the Assessment and Funding of School Facilities.

#### Steps taken to resolve outstanding data and dataset issues with DLS and LEAs

### A. Receipt of requested datasets;

i. On Dec. 21, 2021, the IAC provided to DLS a set of SFA data files that included the following with regard to the complete set of 1,383 LEA schools assessed:



- 1. The full data set, unweighted and with modulars/relocatables registering as space deficiencies at/upon 0 observed RUL, and with formulas and columns to validate the results calculated by Qlik;
- 2. A "slim" and more easily filterable and usable version of the full data set (lacking validation formulas and columns);
- 3. Condition and FCI data for each asset in each building, with rollups to system group, facility, LEA, and statewide levels;
- 4. An example of the math used to cost-weight the assets in a facility (Stadium School); and
- 5. Enrollments and growth factors.
- ii. On June 2, 2022, the IAC provided an updated data set that corrected minor variations in cost per unit figures for some assets as well as FCI figures recalculated accordingly.
- iii. The IAC continues to meet with DLS, typically bi-weekly, to review in depth the data methodology and resulting information.
- iv. Based upon DLS's statements in June 2022, IAC staff believe that all of DLS's issues with the data set have been resolved, although some work remains to be done so that formulas and outputs can be more easily verified by DLS in the future. That work is ongoing.

### B. Development of a data dictionary;

i. The development of the data dictionary is currently in process (see Attachment 1) and is under DLS review.

# C. Confirmation of the accuracy of the facility condition index at the school, system, and LEA level; and

- After the contractor Bureau Veritas (BV) completed the baseline set of i. assessments in August 2021, it performed an internal quality-assurance/quality-control (QA/QC) review of the resulting data set. Between December 2021 and January 2022, the IAC performed its QA/QC review of the data set provided by the contractor and found adjustments that were required with regard to some unit costs, asset names, expected useful lifespans, and asset quantities. BV conducted a deep review and completed the needed adjustments in February, submitting the updated and final baseline data set to the IAC on 2/28/2022. IAC staff then conducted further QA/QC checks on that data set prior to sending updated data summaries to all LEAs on 3/8/2022 for review and questions. To date, the IAC has not received any inquiry or concerns from LEAs regarding the final dataset. Additionally, FCI calculations and data have been independently reviewed by data scientists at Johns Hopkins University, who provided confirmation that the method was sound. On June 23, 2022, DLS staff confirmed that they were able to validate the FCI calculations and figures submitted and had no further related questions.
- D. Calculations for, and confirmation of, the accuracy of the enrollment growth index.



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i. The enrollment projections used in the SFA were provided by the Maryland State Department of Education (MSDE). The MSDE enrollment figures are vetted by the Maryland Department of Planning and confirmed by the LEAs (LEA enrollment projections have to be within 5% of MSDE figures). These figures were determined to be the best starting point for enrollment growth calculations. In the event that enrollment growth projections utilized in the SFA exceeded 120%, a member of the IAC staff would review the provided enrollment data and research the local situation through LEA provided documentation (Educational Facilities Master Plans) to make a determination on what the 5-year enrollment projection should be, and set the appropriate Growth Factor Override. On June 23, 2022, DLS staff confirmed that they were able to validate the growth factor and enrollment calculations and had no further related questions.

# Revisions to Maryland Educational Facilities Sufficiency Standards (EFSS) and use in future Statewide Assessments starting in FY22.

HB 1290 contained the workgroup's recommendations including several items to be established in the EFSS and used in the SFA. The recommended items, listed below, currently are covered in the EFSS. However, some of them were not specifically captured in the prior year assessment methodology. The IAC and BV are implementing additional data collection tools as detailed for each item below to address this requirement.

- Temperature: The EFSS state that building systems must be capable of maintaining the facility temperature between 68 and 75 degrees fahrenheit at full occupancy. As part of the pre-assessment questionnaire, LEAs are asked to identify persistent trouble spots where this is not the case. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation.
- 2. Humidity: The EFSS state that the facility's humidity must be between 30% and 60% relative humidity (RH) at full occupancy. As part of the pre-assessment questionnaire, LEAs are asked to identify persistent trouble spots where this is not the case. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation.
- 3. Carbon Dioxide: The EFSS state that the facility's CO2 level must be below 1,200ppm at full occupancy. As part of the pre-assessment questionnaire, LEAs are asked to identify persistent trouble spots where this is not the case. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation.
- 4. Acoustic Levels: The EFSS state that outside noise should not exceed 55db. As part of the pre-assessment questionnaire, LEAs are asked to identify persistent trouble spots where this is not the case. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation.
- 5. Lead Paint: The EFSS state that the facility must be free of exposed lead paint. As part of the pre-assessment questionnaire, LEAs are asked to identify areas in their facilities they believe contain exposed lead paint. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation.
- 6. Asbestos: The EFSS state that the facility must be free of exposed, friable asbestos. As part of the pre-assessment questionnaire, LEAs are asked to identify areas in their facilities they



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believe contain Asbestos. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation.

- 7. Kitchen Sanitary Equipment: The EFSS state that the facility's kitchen must contain the following equipment: a telephone, plumbing providing potable water, a sink suitable for use both in preparing food and washing utensils, and a separate hand-washing sink. As part of the pre-assessment questionnaire, LEAs are asked to identify Kitchen Equipment they feel is missing. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation. In compliance with HB 1290, the IAC has engaged in discussions with Maryland Department of Health and learned that as school cafeterias are considered to be retail food facilities, they are licensed by local health departments, and that retail food facilities equipment requirements are based entirely on the processes they need to complete. The IAC will continue to engage with the Department of Health to determine what, if any, equipment should be standardized.
- 8. Lighting: The EFSS state that lighting should be at least 50 foot candles (fc) at work surface height in the center of the room. As part of the pre-assessment questionnaire, LEAS are asked to identify persistent trouble spots where this is not the case. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation.
- 9. Emergency Communication System: The EFSS state that "[a] school facility shall have a fire alarm and emergency-notification system as required by applicable State fire codes and emergency procedures" and "[a] school facility shall have a two-way internal communication system between a central location and each classroom, isolated office space, library media center, physical education space, cafeteria, and other regularly occupied spaces." As part of the pre-assessment questionnaire, LEAs are asked to identify whether or not the facility has an emergency communication system that meets these requirements. If issues are identified, assessors will verify when onsite, and the SFA scores will appropriately reflect the need for remediation.
- 10. Health Room Attributes: The EFSS state that "[a] school facility shall have a dedicated health services space with areas for waiting, examination and treatment, resting, storage, and an accessible toilet room. There shall be a separate room for private consultations and for use as a health service professional's office. Provide lockable cabinets for medical records and medications and at least one sink in addition to the sink in the toilet room. All sinks must provide both hot and cold water. Provide a minimum of 500 net sf." As part of the pre-assessment questionnaire, LEAs are asked to identify Health Room Attributes they believe are missing. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation.
- 11. Safety Equipment in Laboratory Space: Laboratory spaces can include science classrooms and career or technical education labs (i.e. diesel-engine repair, cosmetology, culinary). The EFSS state that "[t]he space shall have science fixtures and equipment, in accordance with the standard equipment necessary to meet the educational requirements of the Maryland Science Content Standards" with respect to Science Labs, and "spaces for programs requiring licensing, certification, or accreditation by a state board or agency shall meet all applicable health and safety standards. Cosmetology and barber programs shall comply with



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the sanitation requirements of the State Board of Cosmetologists and the State Board of Barbers, respectively" with respect to CTE Labs. As part of the pre-assessment questionnaire, LEAs are asked to identify laboratory safety equipment they believe is missing. Assessors will verify the issue when onsite, and the SFA scores will appropriately reflect the need for remediation.

12. The functionality of HVAC, life/safety building systems, roofs, and any additional critical building systems identified by the IAC. The functionality of all these items is determined by assessors onsite and reflected in the observed remaining useful life (ORUL) metric of individual assets.

Additional revisions to the EFSS are in progress for the special school types listed below:

- Alternative Schools
- Career and Technical Education
- Special Education Facilities
- Outdoor Science Centers

### Regulations adopted by IAC that support workgroup decisions involving the use of assessment data and revised sufficiency standards

At the July 14, 2022 IAC meeting, revisions to Code of Maryland Regulations (COMAR) 14.39.07 Public Schools Facilities Educational Sufficiency Standards chapter were presented to the IAC members for their review and approval. These revisions will codify the sufficiency standards that were approved by the IAC on May 31, 2018 into COMAR. The sufficiency standards shall be used to complete assessments of existing school facilities Statewide. They are to be used for assessment purposes only and are not requirements for school facility design or construction. The revision has been filed with the Division of State Documents (DSD) for publication in the Maryland Register and then will be open for public comment for a period of at least 30 days. Final action on the proposals is expected to be considered by the IAC during the October 13, 2022 IAC meeting.

#### IAC regulations adopted based on workgroup recommendations

The proposal to revise the COMAR 14.39.02.05 State Cost Share Percentage was submitted to the IAC at the June 8, 2022 meeting for IAC member review and approval. The proposal has been filed with the DSD with a desired date of publication in the July 15, 2022 issue for the Maryland Register for a period of at least 30 days. Final action on the proposal is expected to be considered by the IAC during the September 8, 2022 IAC meeting. The State Cost Share was revised to accord with changes made to Education Article §5-303 by 2022 MD Laws, Ch. 32 except for the Total Cost of Ownership increase that will be proposed once the new regulation regarding the repayment process is completed.

IAC staff anticipate proposing revisions to COMAR 14.39.02.06 Maximum State Construction Allocation to the IAC at the August 11, 2022 meeting for IAC member review and approval. The revisions will permit the IAC when calculating the maximum state construction allocation for a project approved for State funding to reduce the eligible projected enrollment for the project only if the sum of available seat counts in all adjacent schools is 15% or more of the project school's enrollment.



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#### **Progress on IMFAL**

The IAC reported on the progress of the <u>IMFAL procurement in August 2021</u>. The IMFAL will be a cloud-based window to information from a variety of IAC data sets that will be output into portals for LEAs and the general public to access appropriate information.

The IMFAL will gather data from the following:

- Maintenance Database
- Facility Assessment Database
- Business Management System (BMS)
- Facility Inventory Database
- Other IAC data as necessary

Some of these data sources are already in place, such as the Facility Inventory and Maintenance databases. The Facility Assessment Database has been generated by BV and will be in use for the remainder of the three-year contract term, during which time the IAC expects to work with DoIT or a DoIT contractor to build an appropriate replacement.

The BMS, which is a primary component of the IMFAL, has completed the process of procurement. The contract was awarded to e-Builder, Inc. and was approved by the Board of Public Works (BPW) at its June 22, 2022 meeting. The contract term is for 5 years with two 1-year renewal options with a base amount of \$3,726,111 and additional \$1,620,975 for the optional renewals. It is anticipated to go live within 18 months of BPW approval.

Please contact me at <u>Alex.Donahue@Maryland.gov</u> or Cassandra Viscarra at <u>Cassandra.Viscarra@maryland.gov</u> with questions or concerns.

Best Regards,

Alex Donahue Acting Executive Director Interagency Commission on School Construction

Cc: Cassandra Viscarra, Deputy Director for Administration, IAC Sarah Albert, Department of Legislative Services (5 copies)

### Attachment 1: Data Dictionary

#	Variable Name	Field Type	Calculation (if	Example	Expected	Data Source	Description	Supporting
1.00	Basic Variables	Ticiu Type		Example	Dutu Hunge	(IT IIACU)	This section of the Data Dictionary defines Basic SFA Variables.	Docs
1.01	Local Education Agency	Fixed					Local Education Agency of an asset or school	
1.02	PSC Number	Fixed				IAC Facility Inventory Database	Unique identifier for school facilities in the format ##.###. The first two digits before the decimal indicate the LEA that owns the facility.	-
1.03	LCF Building Type	Fixed			Elementary School, Middle School, High School, Combination School, Other	IAC Facility Inventory Database	Describes whether the building is an Elementary School, Middle School, High School, Combination School, or Other school type.	
1.04	State Rated Capacity (SRC)	Fixed				IAC Facility Inventory Database	The number of students a facility can support based on State guidelines. This calculation is based upon the number of teaching stations in the school times the number of students a teaching station for that grade band can accommodate based upon class sizes listed in Appendix 102A of the IAC's Administrative Procedures Guide (APG).	IAC APG
1.05	Gross Square Footage					IAC Facilities Database	The Gross Square Footage of a facility is described as the sum of all areas on all floors of a building included within the outside faces of its exterior walls. This data is taken from the IAC's Facility Inventory Database.	
2.00	Asset Variables						This section of the Data Dictionary defines variables relating to Assets.	
2.01	Asset					SFA Master Asset List	The base component of a facility included in the SFA. There are 162 assets in the Master Asset List available for inclusion in the SFA. For a full list of assets in the SFA please see the IAC's SFA FAQ.	IAC - SFA FAQ
2.02	Asset Name	Fixed				SFA Master Asset List	Descriptive name for the type of asset.	IAC - SFA FAQ
2.03	System Group	Fixed				SFA Master Asset List	Broad class to which an asset belongs (ceilings, HVAC, plumbing, etc.) The 162 Assets are are grouped together by the major facility system they belong to (i.e. HVAC System Group Includes: Boiler, Chiller, and Split System Assets). There are 17 different System Groups used in the SFA. Please see the SFA FAQ for a table containing a full listing of assets, their system groups, expected useful life, and unit costs.	<u>IAC - SFA</u> FAQ
2.04	Expected Useful Life (EUL)	Fixed				SFA Master Asset List	The number of years an Asset is expected to be functional based upon manufacturer's specifications, BOMA recommendations, and observations made by facilities professionals. For a complete listing of assets and their EULs, please see the IAC SFA FAQ.	IAC - SFA FAQ
2.05	Unit of Measure (UoM)	Fixed				SFA Master Asset List	The standard of measurement for any of the 162 Assets in the SFA Master Asset List. The Unit of Measure varies by asset type and includes assets measured in units including but not limited to: square footage, individual quantities, and capacity. For a full list of Assets and their Units of Measure, please see the IAC SFA FAQ.	IAC - SFA FAQ
2.06	Number of units	Fixed			Varies - Should be less than or equal to GSF (except site elements)		The number of units used to determine the asset replacement value of an asset. This value is a Quantity Takeoff. Depending on the asset, it is based on actual capacity (HVAC Tons of Cooling or Boiler MBH), measured spaces (square footage of flooring tiles), or building Gross Square Footage (plumbing distribution).	
2.07	Cost Per Unit	Fixed				SFA Master Asset List & BV Cost Library	IAC-adopted current replacement value for a single unit of an Asset; is based upon factors including the type and data from RSMeans and other industry sources. For a complete listing of assets and their costs per unit, please see the IAC SFA FAQ.	<u>IAC - SFA</u> FAQ
2.08	Observed Remaining	Fixed			0 <= ORUL <=	Assessor	The number of years past the assessment date for which, based upon the assessor's observation and professional judgment, an Asset is expected to remain functional given reasonable properly scheduled routine maintenance	

			Calculation (if		Expected	Data Source		Supporting
#	Variable Name	Field Type	calculated )	Example	Data Range	(if fixed)	Description	Docs
2.09	Year in Service (YiS)	Fixed			Varies by	Supplied by	The averaged estimated year an asset was physically installed. Some assets (i.e. Boilers) may include multiple pieces of equipment installed at	
					System,	LEA or	different times. Assessors estimate the Year in Service by averaging the install dates of individual pieces of equipment, taking into account the	
					generally	assessor	size/capacity of each piece of equipment relative to the rest of the asset.	
					expect			
					average YiS			
					to be less			
					than 2x EUL.			
					There are			
					extreme outliers for			
					ovample the			
					Booker T			
					Washington			
					School in			
					Baltimore			
					City has			
					some			
					structural			
					elements			
					that date to			
					the original			
					construction			
					in 1895.			
2.10	Calendar Year	Fixed			2020	Generated by	The calendar year in which the assessment of the Asset was conducted.	
	Observed				present year	software on		
						day of		
						assessment		
2.11	Fiscal Year Observed	Fixed			2021	Generated by	The fiscal year in which the assessment of the Asset was conducted.	
					present	software on		
						day of		
2 1 2	Calculated RUI	Calculated	Expected Liceful			assessment	The calculated PUL based upon the Year in Service and the actual are	
2.12	Calculated ROL	Calculated	Lifosnan (Calondar				The calculated KOL based upon the tear in service and the actual age.	
			Year Observed - Year in					
			Service)					
2 13	Actual Age vs FUI	Calculated	(Calendar Year				The ratio of the Actual Age of an Asset to its Expected Useful Life expressed as a percentage	
2.20	, lotadi , ige is coc	Calculated	Observed - Year in				The factor of the Anticast Age of an America and antiperced operations and percentage.	
			Service) / Expected					
			Useful Life					
2.14	Asset Replacement	Calculated	RS Means-based cost	SFA Coldstre	am/Stadium So	hool Model	As used to calculate the FCI, the current replacement value of an asset without regard to condition or weighting; derived by multiplying the IAC-	
	Value (FCI)		per unit measure x				adopted Cost Per Unit for the Asset by the Quantity of the Asset.	
			number of units					
	Asset Replacement	Calculated	RS Means-based cost	SFA Coldstre	am/Stadium So	chool Model	As used to calculate the MDCI, the current replacement value of an asset without regard to condition or weighting; derived by multiplying the IAC-	
	Value (MDCI)		per unit measure x				adopted Cost Per Unit for the Asset by the Quantity of the Asset. This value will only be different from the FCI-based Asset Replacement value in	
			number of units,				the event of "aged-out" Modulars/Relocatables in Scenarios A&D. It is included here for consistency only.	
			excluding aged out					
			relocatable and					
2.15			modulars					
2.16	Minimum Year In	Calculated	The oldest YiS in a				The oldest Year in Service of an asset in a grouping of assets (i.e. the oldest asset in a School, System Group, or LEA).	
2.67	Service	Thursd.	group of Assets					
2.17	Average year In Service	rixea	Sum of all YIS / # of YIS				I ne average tear in service of an asset in a grouping of assets (i.e. the average asset Yis in a School, system Group, or LEA).	
2.00	FCI Variables		in the numerator				This Section of the Data Distinguest defines unsidely related to calculating Easility Condition Index (FCI)	
3.00	Percent Decreded	Colouista	(Eurosted Linef. J. 196	CEA Califa	0.00.1.00		This become bare data bictionary demines variables related to calculating Facility Condition index (FCI).	
3.01	(Eacility condition	calculated	Checking Control Contr	SFA COldStre	0.00-1.00		The Percent Degraded to Asset FCI represents the percent of the expected line of the asset that has been consumed by use and age.	
			Useful life) / Expected					
	muez, ruj		Useful Life					
3.02	ECI per Asset	Calculated	Percent degraded v	SFA Coldstro	<= Asset		FCI per Asset is the Asset's Percent Degraded multiplied by the Asset's Replacement Value. This item is used as a weighting factor for calculating the	
5.02	. or per risset	Surculated	asset replacement	Sin colusite	Replacement		For particular that more significant hieres of equipment by the rate of impact on the calculated FCI	
			value (FCI)		Value		This field contains the Depleted Value of an asset, not ECI. It is the product of the asset's ECI x is CRV. The field in the System Group file was	
							misnamed.	
-			1					

			Calculation (if		Expected	Data Source		Supporting
#	Variable Name	Field Type	calculated )	Example	Data Range	(if fixed)	Description	Docs
3.03	FCI per System Group	Calculated	Weighted average: Sum	SFA Coldstre	e 0.00-1.00		The weighted FCI for a System Group.	
			of FCIs per asset in a					
			system group divided					
			by the sum of all asset					
			replacement values in a					
			system group					
3.04	FCI per School	Calculated	Weighted average: Sum	SFA Coldstre	e 0.00-1.00		The weighted FCI for a School.	
			of FCIs per asset in a					
			School divided by the					
			sum of all asset					
			replacement values in a					
			School					
3.05	FCI per LEA	Calculated	Weighted average: Sum		0.00-1.00		The weighted FCI for an LEA.	
			of FCIs per asset in an					
			LEA divided by the sum					
			of all asset replacement					
2.06	FCI by System Crown	Colculated	Values in an LEA		0.00.1.00		The Weighted FCI for a furthern Crown in an LFA (o.g. the FCI for the calling agents in Weighterton Country)	
5.00	LEA Lovel	Calculated	of ECIs por assot in a		0.00-1.00		The weighted PCF for a system Group in an LEA (e.g., the PCF for the tening assets in washington county).	
	LEALEVEI		System Group in an LEA					
			divided by the sum of					
			all asset replacement					
			values in a System					
			Group in an LEA					
3.07	FCI by System Group	Calculated	Weighted average: Sum		0.00-1.00		The Weighted FCI for a System Group in a school (e.g., the FCI for the HVAC assets in Calvert Elementary).	
	School Level		of FCIs per asset in a					
			System Group in a					
			School divided by the					
			sum of all asset					
			replacement values in a					
			System Group in a					
			School					
3.08	FCI by System Group	Calculated	Weighted average: Sum		0.00-1.00		The Weighted FCI for a specific building.	
	Building Level		of FCIs per asset in a					
			System Group in a					
			Building divided by the					
			sum of all asset					
			replacement values in a					
			System Group in a					
4.00	Space Types		Building				This section of the Data Dictionary defines variables relating to inventorial facility Space Types	
4.00	Space Types /						This section of the bata bictional y demines variables relating to inventioned racinty space types.	
4.01	Requirements (&						Sufficiency Standards. The standards and the calculations for determining space types except Autonomins have requirements set by Educational	
	variations per school						penuinents for Elementary Schools (FS) Middle Schools (MS) and High Schools (HS)	
	type)							
4.02	Administrative (Space		150 + CYPop * GF	SFA Coldstr	eam/Stadium S	chool	Standard - A school facility shall have space to be used for the administration of the school. The space shall consist of a minimum of 150 net sf, plus	IAC
	Type)			Demonstrat	tion Model		1 net sf/student of the planned school program capacity.	Sufficiency
								Standards
4.03	Auditorium (Space		No Requirement				Square footage figures for auditorium-type spaces were captured for information purposes but are not used in any calculations because there is no	IAC
	Type)						minimum space requirements for auditoriums in the Sufficiency Standards.	Sufficiency
								Standards
4.04	Career Development		Minimum 650 SF per	SFA Coldstr	eam/Stadium S	chool	Middle school.	IAC_
	(Space Type)		program Lab (MS & HS	Demonstrat	<u>tion Model</u>		Space shall be provided for career-development and career-exploration activities. Each program lab or classroom space shall be no smaller than	Sufficiency
			only, no ES				650 net sf.	Standards
			requirement)					
							High school.	
							Career and technology education programs space shall be provided with no less than 4 net sf/student of the specialty program capacity of the	
							school for career education. Each program lab or classroom space shall be no smaller than 650 net st. Spaces for programs requiring licensing,	
							certification, or accreatization by a state board or agency shall meet all applicable nearlin and safety standards. Cosmetology and barber programs chall sense humble the capitation constraints of the State Deard of Cosmetologists and the State Deard of Deck methods.	
4.05		-	15/2 * 0/0 * 05	CEA C 111		-hl	shan comprised with the sanitation requirements of the state board of cosmetologists and the state Board of Barbers, respectively.	14.0
4.05	uning (space Type)		15/3 * CTPOP * GF	Domonstrat	eam/stadium S	<u>CHOOL</u>	Uning. A school raciity shall have a space to permit students to eat within the school outside of general classrooms. This space may have more than one fulficity of the school outside of general classrooms. This space may have more	IAL Sufficience:
				Demonstral	don would		are long enough to give all students enough time to be served and to get their longers of doing are shall be sized to accompany to an enough to give all students enough to inter the served and to get their longers to accompany to an enough to get the served and to get their longers the served and the served and to get their longers the served and the served and to get their longers the served and the served and to get their longers the served and the served and to get their longers the served and	Standards
							one third of the planned school program capacity of the school. The dining area shall have no less than 15 pet of school and the school brown and the school	<u>o canaando</u>
		1	1					1

#	Variable Name	Field Type	Calculation (if	Fxample	Expected	Data Source (if fixed)	Description	Supporting
4.06	Fine Arts (Snace Type)	Tield Type	Elementary / Middle	SEA Coldstra	appleta hange	chool	A school facility shall have classroom space to deliver fine-arts education programs. Fine arts subjects include art, music, dance, and theater	
4.00			School 4 * CYPop * GF	Demonstrat	ion Model		Classroom space(s) for fine-arts education shall not be smaller than the average classroom at the facility. Fine-arts education classroom space(s) may be included in the academic-classroom requirement and may be used for other instruction.	Sufficiency Standards
			High School 5 * CYPop * GF				1. Elementary school. Fine-arts education programs may be accommodated within a general use or dedicated arts classroom. Provide one dedicated classroom for each fine-arts subject area staffed with greater than 0.5 full time fine-arts teacher. Provide additional dedicated fine-arts program storage of at least 60 net sf for each subject area per facility.	
							2. Middle school. Classroom space(s) for fine-arts education programs shall have no less than 4 net sf/student of the specialty program capacity for fine-arts subjects. Provide one dedicated classroom for each fine-arts subject area staffed with greater than 0.5 full time fine-arts teacher. Provide additional 60 net sf of storage for each fine-arts program subject.	
							3. High school. Classroom space(s) for fine-arts education programs shall have no less than 5 net sf/student of the specialty program capacity for fine-arts subjects	
4.07	General Classroom		(CYPop1-8 * 32 +	SFA Coldstro	eam/Stadium S	<u>ichool</u>	General Use Classrooms (i.e. English/Language Arts, Math, Social Studies, World Languages)	IAC_
	(Space Type)		CYPop9-12 * 25 + CYPopK * 50 + CYPopPreK * 50) * GF	<u>Demonstrat</u>	<u>ion Model</u>		Cumulative classroom net square foot (sf) requirements, excluding in-classroom storage space and any in-classroom toilet rooms, shall be at least: 1. Prekindergarten 50 net sf/student 2. Kindergarten 50 net sf/student 3. Grades 1 – 8 32 net sf/student	Sufficiency Standards
	a 1 /a				10. 11. 1		4. Grades 9 – 12 25 net st/student	
4.08	Gymnasium (Space Type)		2200	Demonstrat	ion Model	<u>chool</u>	1. Elementary school. Provide a gymnasium with at least 2,200 net sf. This space may have multi-purpose use in accommodating other educational program activities such as art program performances.	IAC Sufficiency Standards
			Middle School 5200 + 0.4 * 4 * CYPop * GE				2. Middle school. Provide a gymnasium with a minimum of 5,200 net sf plus an additional 4 net sf times 40% of the enrollment of the school devoted to bleacher seating.	
			High School 6500 + 0.4 * 4 * CYPop				3. High school. Provide a gymnasium with at least 6,500 net sf plus an additional 4 net sf times 40% of the enrollment of the school devoted to bleacher seating.	
			* GF					
4.09	Health Services (Space Type)		500NSF Minimum	SFA Coldstru Demonstrat	eam/Stadium S ion Model	<u>ichool</u>	A school facility shall have a dedicated health services space with areas for waiting, examination and treatment, resting, storage, and an accessible toilet room. There shall be a separate room for private consultations and for use as a health service professional's office. Provide lockable cabinets for medical records and medications and at least one sink in addition to the sink in the toilet room. All sinks must provide both hot and cold water. Provide a minimum of 500 net sf.	IAC Sufficiency Standards
4.10	Kitchen (Space Type)		200NSF minimum	SFA Coldstru Demonstrat	<u>eam/Stadium S</u> ion Model	ichool	A kitchen shall have a telephone, plumbing providing potable water, a sink suitable for use both in preparing food and washing utensils, and a separate hand-washing sink. Kitchen and equipment shall comply with either the food preparation kitchen or the serving kitchen standards defined as follows: 1. Food preparation kitchen. Provide at least the greater of 1) a minimum of 2 net sf/meal served during the single largest serving period or 2) no fewer than 2 sf per enrolled student eligible for free or reduced-price meals. 2. Serving kitchen. Where food is not prepared, there shall be a minimum of 200 net sf.	IAC Sufficiency Standards
4.11	Library/Media Center (Space Type)		3 * CYPop * GF	SFA Coldstru Demonstrat	eam/Stadium <u>S</u> ion Model	<u>ichool</u>	A school facility shall have a unified school library/media program for the use of all students which shall include an organized and centrally managed collection of instructional materials and technologies and direct instruction. Provide space for collections, reference, circulation, instruction, workroom for staff, and storage. A. Elementary school. The area for stacks and seating space shall be at least 3 net sf/student of the planned school program capacity. The instructional space shall not be smaller than the average classroom at the facility. In addition, office/workroom space and secure storage shall be provided. B. Middle or high school. The area for stacks and seating shall be at least 3 net sf/student of the planned school program capacity. The space shall be at least 3 net sf/student of the planned school program capacity. The space shall be at least 3 net sf/student of the planned school program capacity. The space shall be at least 3 net sf/student of the planned school program capacity. The space shall be at least 3 net sf/student of the planned school program capacity. The space shall be at least 3 net sf/student of the planned school program capacity. The space shall be at least 3 net sf/student of the planned school program capacity. The space shall be at least 3 net sf/student of the planned school program capacity. The space shall be at least 3 net sf/student of the planned school program capacity. The space shall be the space shall be at least 3 net sf/student of the planned school program capacity. The space shall be the space shall be at least 3 net sf/student of the planned school program capacity. The space shall be the space shall be at least 3 net sf/student of the planned school program capacity. The space shall be the space shall be stated at the space sha	IAC Sufficiency Standards
1 12	Locker Room (Space		None	SEA Coldete	aam/Stadium 9	chool	not be smaller unan the average classicolin at the racting, in addition, once/worktoom space and secure storage shall be provided.	IAC
4.12	Туре)			Demonstrat	ion Model		mph school only. Two dressing rounds shall be provided, with lockers, snowers and restroom fixtures. Two offices shall be provided. Separate physical education equipment storage space shall be provided.	Sufficiency Standards
4.13	Maintenance / Janitorial Space (Space Type)		0.5 * CYPop * GF	SFA Coldstru Demonstrat	eam/Stadium S ion Model	<u>ichool</u>	Each school shall designate 0.5 net sf per student of the planned school program capacity for maintenance and janitorial space. Janitorial space shall include a janitorial sink.	IAC Sufficiency Standards
4.14	Pupil Services (Space	-	360NSF minimum	SFA Coldstr	eam/Stadium S	chool	A school shall provide a coordinated program of pupil services for all students which shall include, but not be limited to, school counseling, pupil	IAC_
	Туре)			<u>Demonstrat</u>	ion Model		personnel, school psychology, and health services. The school facility shall provide a minimum of 120 net sf for each discipline, except school health services, staffed with greater than a 0.5 full time professional.	Sufficiency Standards

			Calculation (if		Expected	Data Source		Supporting
#	Variable Name	гіеїа Туре		Example	Data Range	(if fixed)	Jeseription	Docs
4.15	Science (Space Type)		12) * 4 * GF	Demonstrat	ion Model	<u>cnool</u>	For grades PK through 5, no additional space is required beyond the classroom requirement.	<u>Sufficiency</u> Standards
							Middle School / High School For grades 6 through 12, 4 net sf/student of the specialty program capacity for science is required. The space shall not be smaller than the average classroom at the facility. This space is included in the academic classroom requirement and may be used for other instruction. The space shall have science fixtures and equipment, in accordance with the standard equipment necessary to meet the educational requirements of the Maryland Science Content Standards.	
4.16	Special Education (Space Type)		450SF minimum where required	SFA Coldstre Demonstrat	eam/Stadium S ion Model	<u>chool</u>	Special education (COMAR 13A.05.01, 13A.05.02) Maryland assures a free appropriate public education for all students with disabilities, birth through the end of the school year in which the student turns 21 years old, in accordance with the student's individualized Education Program. To the maximum extent appropriate, students with disabilities are educated in the least restrictive environment with students who are not disabled. A continuum of alternative placements shall be provided.	IAC Sufficiency Standards
							If a special-education space for pull-out purposes other than calming is provided and the space is required to support educational programs, services, and curricula, the space shall not be smaller than 450 net sf.	
4.17	Storage (Non- Classroom) (Space Type)		CYPop * GF	SFA Coldstree Demonstrat	eam/Stadium S ion Model	<u>chool</u>	For storage, at least 1 net sf/student of the planned school program capacity may be distributed in or throughout any type of room or space, but may not count toward required room square footages. General storage must be securable and include textbook storage.	IAC Sufficiency Standards
4.18	Technology and Computer Science		Middle School 3 * CYPop * GF	SFA Coldstree Demonstrat	am/Stadium S ion Model	<u>chool</u>	For grades K through 5, no additional space is required beyond the classroom requirement.	IAC Sufficiency
	(space type)		High School 4 * CYPon * GE				For grades 6 through 8, 3 net st/student,	<u>standards</u>
4 19	Workspace/Lounge		150NSF	SFA Coldstre	am/Stadium S	chool	and white stratedent for grades of through 12.	IAC
	(Space Type)		OR	Demonstrat	ion Model		her a classroom. The space shall consist of 1 net sf/student of the planned school program capacity with no less than 150 net sf. The space may	Sufficiency
			CYPop * GF				consist of more than one room and may have more than one function. This space shall include a break area with a sink.	Standards
			Whichever is larger					
5.00	Enrollment Variables						This Section of the Data Dictionary describes the SFA variables relating to Enrollment and the calculation of Growth Factors.	
5.01	CY -# Population	Fixed					The total FTE enrollment of the school as counted on Sept. 30, 2021 and as audited and published by MSDE in spring of the following calendar year. There are variations of this format used in the SFA calculations that make distinctions on past total enrollment, or current enrollment broken down by grade bands for the purpose of sufficiency calculations.	
							Past enrollment years are indicated as follows: The variable designated "CY-1" indicates the enrollment data is from the previous year; "CY-2" indicates two years prior to the Current Year; "CY-3" indicates three years prior to the Current Year; "CY-4" indicates four years prior to the Current Year.	
						MSDE Report	Current Year Enrollments are broken down as follows: "CY Pop 1-8" Indicates the Current Year's enrollment for 1st through 8th grades; "CY Pop 9-12" Indicates the Current Year's enrollment for 9th through 12th grades; "CY Pop K" Indicates the Current Year's enrollment for Kindergarten; and	
5.02	Growth Factor	Calculated	Growth Factor - /1+	For an		Enroliments	Ut rop risk indicates the Current rear's enrollment for Prekindergarten.	SEA
5.02	Growth Factor	Calculated	of growth Factor = (1+ average yearly change of growth rate) ^5 Avg yearly Change of	example of the calculation in use.			The growth factor used to project growth into future years. This is a multipart formula used to calculate the straight-line projection used to project school enrollment growth five-years into the future.	<u>SrA</u> <u>Coldstream</u> <u>/Stadium</u> <u>School</u> Demonstrat
			growth rate = sum (yearly % data change) /4	please see the Coldstream			Note: The RFP contained an error that did not fully define the yearly change in enrollment as a percentage, instead of the number of students difference. The formulas to the left are the calculations that are used.	ion Model
			Yearly % Data Change = (Current Year enrollment - Previous year enrollment) /Previous year Enrollment	School Model's "Enrollmen t" Tab				

			Calculation (if		Expected	Data Source		Supporting
#	Variable Name	Field Type	calculated )	Example	Data Range	(if fixed)	Description	Docs
5.03	Growth Factor	Fixed		For an		IAC Staff	Growth Factor Override (GFO).	<u>SFA</u>
	Override (GFO)			example of		determinatio		Coldstream
				the		n based on	Increare generally two instances where a calculated Growth Factor may need a Growth Factor Override.	/Stadium
				calculation		published LEA	1. If the Growth Factor is unable to be calculated due to missing/incomplete enrollment:	Domonstrat
				nlease see		uata	radiates in this category generary include. - New Schools - which do not have 5 full years of enrollment - GEO would be set to 1 to normalize the sharp increase from 0 students to a full	ion Model
				the			school wer	ion model
				Coldstream			- Facilities with no enrollment and no SRC - these facilities are typically closed awaiting surplussing, empty and under renovation, outdoor science	
				/Stadium			centers (which have no SRC or enrollment) - GFO is set to 1	
				School			- Facilities with no enrollment but have an SRC - These are special facilities where students are counted in their home school enrollment figures	
				Model's			(CTE, Special Ed, Alternative Programs) All enrollment years are set to SRC making GFO 1, no sufficiency deficiencies are generated as standards	
				"Enrollmen			for these school types do not exist yet.	
				t" Tab			<ul> <li>Facilities Missing enrollment years - These are generally swing spaces used to house programs while their home schools are under</li> </ul>	
							renovation/construction All enrollment years are set to SRC making GFO 1, no sufficiency deficiencies are generated	
							2. If the Colorador Crowth Factor is greater than 1.20	
							2. If the calculated growth ratio is greater than 1.20. Explore a calculated Growth Eactor greater than or equal to 1.20, were flagged for $F_{\rm explore}$ is the case of growth calculated Growth Eactor greater than or equal to 1.20, were flagged for	
							ravines projecting a migrate of growth, defined by the iAC as having a calculated Growth factor greater than of equal to 1.20, were happed for review by IAC staff	
							A member of IAC staff would research and review documents relating to the facility (Educational Facilities Master Plans, LEA growth projections) to	
							make a determination on the Growth Factor. Typically an LEAs Educational Facilities Master Plan contains future enrollment projections that would	
							be used or taken into consideration. If the LEA projection is higher than the IAC calculated projection. The difference would be split. Ex: LEA	
							projection is 300 and IAC projection is 100, use 200 for projection	
							If LEA projection is lower than the IAC projection, the LEA's projection would be used.	
5.04	Square Footage Per	Calculated	Gross Square Footage /			IAC Facilities	The amount of space per enrolled student, calculated by dividing the Gross Square Footage, as indicated in the IAC's Facility Database, into the	
6.00	Student Dian Tuna Variables		Enroliment			Database	Current enrollment.	
6.01	Plan Type	Eived				Assessor	This section of the data dictionary demines that type variables used to determine weighting in several indication of the data mining factor of the Asset's state or patient of the regretation. The Dia Twee is used in the datarmining factor of the Asset's state or patient of the datarmining factor of the Asset's state or patient of the datarmining factor of the Asset's state or patient of the Asset's state or pat	
0.01	rian type	TIXEU				determined	An assissive selected material of the determining lactor of the Assets state of nature of degradation. The nam type is used in the determiniation of several MDCI categories.	
6.02	1 Safety	Fixed				Assessor	Plan Type "Safety" is used when the assessor makes the determination that the system as a whole represents an issue significant enough to pose a	
	,					determined	risk to people or force closure of the school.	
6.03	2 Life Performance	Fixed				Assessor	Plan Type "Performance integrity" is selected when the system is significantly older than life expectancy posing risk of failure or where it has ceased	
	Integrity					determined	to effectively serve the purpose for which it was designed.	
6.04	3 Life Cycle Renewal	Fixed				Assessor	Plan Type "Life Cycle renewal" is used to indicate when a system is performing properly and has some remaining useful life.	
C 05	A Datusfit Adautation	Thursd.				determined		
6.05	4 Retront Adaptation	Fixed				System	Plan type Retroit/Adaptation is reserved for systems that, although functional, are outmoded and need to be replaced with modern systems.	
6.06	E Sufficionay facility	Eivod				System	Plan Tune Category E "Sufficiency" is used to classify Sufficiency issues related to issues other than electroom capacity	
0.00	use access	Fixeu				Assigned	Fian type category 5 sumiciency is used to classify sumiciency issues related to issues other than classioon capacity.	
6.07	5a - Sufficiency	Fixed				System	Plan Type 5a "Sufficiency" is used to signify a deficiency related to sufficiency standards for inherent parts of the facility. Examples: Parking Lots.	
						Assigned	playgrounds and other missing physical items (LDs) not assigned by assessor; these were calculated by the system (Qlik) based upon standards.	
6.08	5b - Space	Fixed				System	Plan Type 5b "Space" is used to signify a deficiency related to sufficiency standards for space based issues within the facility. Space-related	
						Assigned	deficiencies - classrooms (SDs) not assigned by assessor; these were calculated by the system (Qlik) based upon standards.	
6.09	5c - Equipment	Fixed				System	Plan Type 5c "Equipment" is used to signify a deficiency related to sufficiency standards for non fixed equipment. No assets were categorized here	
						Assigned	in Baseline Assessment.	
6.10	6 Sufficiency - space	Fixed				System	Plan Type 6 "Sufficiency - Space" is used to classify deficiencies in the amount of square footage in a Space Type within a school as compared with	
						Assigned	the amount required by the Sufficiency Standards.	
6.11	Asset Criticality	Fixed				Assessor	A statement by the assessor of how serious an issue is, particularly if Safety or Performance Integrity are selected as Plan Types. Criticality is used	
						determined	UNLY in determination of whether an asset is assigned to MDCI Cat's or 4. This field was used UNLY to allow the assessor flexibility in determining if	
7.00	MDCI Variables						an asset should be rated information where not cleated for interval assets.	
7.00	Maryland Condition	Calculated	See each MDCI				This account of the data better expression of the base of the data and the data and the data better and th	
7.01	Index (MDCI)	carculated	Category Below					
	(= =.)						Each category has its own corresponding weighting factor used in the MDCI calculations.	
7.02	MDCI Category 1 -	Calculated	If the Plan Type of "1 -				Category is used to weight issues marked with Plan Type 1-Safety.	
	Immediate		Safety" is Selected the					
	Code/Life/Health		Asset is assigned to					
	Threat		MDCI Cat 1.					
7.03	MDCI Category 2 -	Calculated	If the Plan Type of "5B -				Category is used to weight issues marked with Plan Type 5b for Space related deficiencies.	
	Sufficiency Deficiency -		Sufficiency - Space" is					
	space (x3.00)		Selected the Asset is					
			assigned to MDCI Cat 2.		L	I		

			Calculation (if		Expected	Data Source		Supporting
#	Variable Name	Field Type	calculated )	Example	Data Range	(if fixed)	Description	Docs
7.04	MDCI Category 3 -	Calculated	If the Plan type of "2 -				Category is used to weight issues marked with Plan Type 2 - Performance Integrity.	
	Mitigate Additional		Performance Integrity"					
	Damage		is selected AND the					
	Durinage		Observed RUL is zero					
			AND the Criticality is					
			Greater than or Equal					
			to E then the Accet is					
			to 5, then the Asset is					
			assigned to MDCI Cat 3.					-
7.05	MDCI Category 4 -	Calculated	[If the Plan type of "2 -				Category is used to weight issues marked with Plan Type 2 - Performance Integrity.	
	Degraded w/Potential		Performance Integrity"					
	Mission Impact		is selected AND the					
			Observed RUL is greater					
			than zero AND the					
			Criticality is less than or					
			Equal to 4] OR [Plan					
			Type is 3-LifeCycle					
			Renewal and Actual Age					
			vs. EUL is greater than					
			200%], the Asset is					
			assigned to MDCI Cat 4.					
7.06	MDCI Category 5 -	Calculated	If the Actual Age vs. EUL				Category is used to weight assets whose actual age vs EUL is greater than or equal to 100% and less than or equal to 200%. This category applies a	
	Beyond Expected Life		is greater than or equal				sliding weight with upper and lower limits (RFP weight rage 0.25 lower limit to 1.50 upper limit). The formula for determining the appropriate MDCI	
			to 100% AND less than				category multiplier is as follows:	
			or equal to 200%, the				= Lower Limit + (Asset Age vs EUL % - 1)*(Upper Limit - Lower Limit)	
			Asset is assigned to					
			MDCI Cat 5.					
7.07	MDCI Category 6-	Calculated	If the Plan Type "4 -				Category is used to weight issues marked with Plan Type 4 - Retrofit/Adaptation (systems that, although functional, are outmoded or obsolete and	
	Grandfathered or		Retrofit/Adaptation" is				may not be fully serving their intended purpose and/or may not be maintainable).	
	State/District		selected then the asset					
	Standards		is assigned to MDCI Cat					
			6.					
7.08	MDCI Category 7 -	Calculated	If the Plan Type "5A -				Category is used to weight issues marked with Plan Type 5a (deficiencies related to sufficiency standards for inherent parts of the facility).	
	Sufficiency Deficiency -		Sufficiency -					
	Facility		Facility/Use/Access" is					
			selected then the asset					
			is assigned to MDCI Cat					
			7.					
7.09	MDCI Category 8 -	Calculated	If Plan Type "5C -				Category is used to weight issues marked with Plan Type 5c (none exist in Baseline Assessment).	
	Sufficiency Equipment		Sufficiency -					
			Equipment" selected,					
			then asset is assigned					
			to MDCI Cat 8 (none					
			such).					
7.10	MDCI Category 9 -	Calculated	If none of the criteria in				MDCI category is assigned if no other criteria are met. This category indicates the asset is functioning as expected within its lifecycle.	
	Normal/Within Life		Categories 1 through 8					
	Cycle		are met, the asset is					
			assigned to MDCI Cat 9					
			(These are logically Plan					
			Type "3 - Life Cycle					
			Renewal" with Percent					
			Useful Life less than					
			100%).					
7.11	MDCI Multiplier	Fixed				Set by	Relative weighting of different asset categories.	
						Assessment		
						and Funding		
						of School		
						Facilities		
						Workgroup to		
						appropriately		
						weight MDCI		
						categories		
7.12	MDCI Cost Component	Calculated	Asset Replacement			-	The amount of cost assigned to the numerator of the FCI equation contributed by the individual asset.	
	Score		Value x Percent					
			Degraded					

#	Variable Name	Field Type	Calculation (if	Frample	Expected	Data Source (if fixed)	Description	Supporting
7 13	Total Square Footage	Fixed	culculated y	Example	Data hange	Assessor	The amount of space within a modular or relocatable at a school	5003
7.15	(modulars and relocatables)	likeu				determined		
7.14	Net Classroom Square	Calculated	Total Square Footage,				The useable classroom space within a room, open plan space, modular or relocatable. Note that some spaces have circulation space deducted	
	Footage		unless remaining useful				from the total Square Footage: open plan spaces (20%), modulars and relocatables (30%).	
			life = 0				This variable was added to indicate the total usable classroom square footage of a modular or relocatable. When the ORUL = 0, this value will be	
							zero.	
							This variable is only used in the calculation of MDCI scenarios where Modulars and Relocatables are removed from facility square footage when their ORUL is 0.	
7.15	Total SF + Modulars & Relocatables						The total amount of space within all modulars and relocatables at a school, if applicable. Space in modulars is NOT included within the GSF of a school.	
	Supplemental Data							
8.00	Points						This section of the Data Dictionary defines supplemental data points collected as the result of House Bill 1290	
							House Bill 1290 required the IAC to collect additional data on School Facilities including information on Lead Paint, Asbestos, Temperature,	
							Humidity, CO2, Acoustics, Lighting, Kitchen equipment, Emergency Communication Systems, Lab Space Safety Equipment, and Potable Water. The	
8.01	HB 1290 Items					LEAs	IAC staff developed a spreadsheet to solicit this information from the LEAs ahead of the assessment	
							LEAs were asked to confirm whether Lead Paint existed in the facility, and whether it presented a concern or has resulted in a closure of part or all	
							of the facility. In the event of a concern to students/staff or a closure, the LEA was asked to identify the locations of the issue and estimate the	
			Add Standards (sort to				percentage of the facility affected.	
8.02	Lead Paint Issues		MDCI cat 1)			LEAs	Educational Sufficiency Standards state schools must be "free of exposed lead paint"	
8.03	Lead Paint Notes					LEAs	In the event of Lead Paint concerns, LEAs were asked to identify the areas affected. (i.e. The West Science Annex, or Classrooms 101, 205, and 206.)	
	Lead Paint -					LEA and		
	Percentage of the		Affected Area / Gross			verified by	LEAs were asked to estimate the percentage of the facility affected by Lead Paint by dividing the square footage of the affected area into the Gross	
8.04	Facility		Square Footage			Assessor	Square Footage of the facility.	
							LEAs were asked to confirm whether Asbestos existed in the facility, and whether it presented a concern or has resulted in a closure of part or all of	
							the facility. In the event of a concern to students/staff or a closure, the LEA was asked to identify the locations of the issue and estimate the	
			Add Standards (sort to				percentage of the facility affected.	
8.05	Asbestos Issues		MDCI cat 1)			LEAs	Educational Sufficiency Standards state schools must be "free of exposed friable asbestos"	
8.06	Asbestos Notes					LEAs	In the event of Asbestos concerns, LEAs were asked to identify the areas affected. (i.e. The West Science Annex, or Classrooms 101, 205, and 206.)	
						LEA and		
	Asbestos - Percentage					verified by	LEAs were asked to estimate the percentage of the facility affected by Asbestos by dividing the square footage of the affected area into the Gross	
8.07	of the Facility Affected					Assessor	Square Footage of the facility.	
			Standard: 68-75					
			degrees Fahrenheit at				LEAs were asked if the facility has persistent trouble spots where the HVAC system was not able to keep temperature within the standard of 68-75	
8.08	Temperature Issues		full occupancy			LEAs	degrees Fahrenheit at full occupancy.	
							LEAs were asked to identify the areas within their facilities with persistent temperature issues. (i.e. The West Science Annex, or Classrooms 101,	
8.09	Iemperature Notes					LEAs	205, and 206.)	-
	Temperature -					LEA and		
	Percentage of the					verified by	LEAS were asked to quantify the percentage of the area of the facility that had persistent temperature issues by dividing the square footage of the	
8.10	Facility Affected					Assessor	affected area into the Gross square Footage of the facility.	
0.44			Standard: 30%-60% RH				LEAS were asked if the facility has persistent trouble spots where the HVAC system was not able to keep humidity within the standard of 30%-60%	
8.11	numiaity issues		at rull occupancy			LEAS	netative numinity at run occupancy.	
8.12	Humidity Notes					LEAs	and 206.)	
						LEA and		
	Humidity - Percentage					verified by	LEAs were asked to quantify the percentage of the area of the facility that had persistent humidity issues by dividing the square footage of the	
8.13	of the Facility Affected					Assessor	affected area into the Gross Square Footage of the facility.	
			Standard: less than				LEAs were asked if the facility has persistent trouble spots where the HVAC system was not able to keep CO2 levels below the threshold of 1,200	
8.14	CO2 Issues		1,200ppm			LEAs	ppm at full occupancy.	
8.15	CO2 Notes					LEAs	LEAs were asked to identify the areas within their facilities with persistent CO2 issues. (i.e. The West Science Annex, or Classrooms 101, 205, and 206.)	
						LEA and		
	CO2 - Percentage of					verified by	LEAs were asked to quantify the percentage of the area of the facility that had persistent CO2 issues by dividing the square footage of the affected	
8.16	the Facility Affected					Assessor	area into the Gross Square Footage of the facility.	
			Standard: sustained					
			background sound level					
8.17	Acoustic Issues		less than 55 decibels			LEAs	LEAs were asked if the facility has Acoustic issues where outside noise exceeded the standard of 55db.	
8.18	Acoustic Notes					LEAs	LEAs were asked to identify the areas within their facilities with acoustic issues. (i.e. The West Science Annex, or Classrooms 101, 205, and 206.)	
						LEA and		
	Acoustic - Percentage					verified by	LEAs were asked to quantify the percentage of the area of the facility that had acoustic issues by dividing the square footage of the affected area	
8.19	of the Facility Affected					Assessor	into the Gross Square Footage of the facility.	

			Calculation (if		Expected	Data Source		Supporting
#	Variable Name	Field Type	calculated )	Example	Data Range	(if fixed)	Description	Docs
			Standard: At least 50					
			foot-candles of well					
			distributed light.					
			Measured at work					
			surface height from the					
8.20	Lighting Issues		center of the room.			LEAS	LEAs were asked if the facility has lighting issues where the system was unable to meet the standard of 50fc.	
	0.00.000					-	I FAs were asked to identify the areas within their facilities that do not meet lighting standards. (i.e. The West Science Annex, or Classrooms 101	
8 21	Lighting Notes					LEAS		
0.21	Lighting Hotes					LEA and		
	Lighting - Percentage					verified by	IFAs were asked to quantify the percentage of the area of the facility that had lighting issues by dividing the square footage of the affected area	
0 77	of the Escility Affected					Accossor	Let's were asked to quantify the percentage of the area of the facility that had lighting issues by dividing the square lootage of the area ted area	
0.22	of the Facility Affected		Current Standards			ASSESSUI	Into the Gross square rootage of the facility.	
			Kitchen must have					
			Kitchen must have a					
			telephone, potable					
			water, sink for hand					
	Kitchen Equipment -		washing, sink for				LEAs were asked if their kitchens had all the equipment necessary to meet standards. Current standards are defined as: Telephone, Potable water,	
8.23	Missing		prep/utensil washing.			LEAs	sink for handwashing, and sink for utensil washing/food prep.	
	Kitchen Equipment							
8.24	Notes					LEAs	LEAs were asked to describe the equipment that was missing.	
						LEA and		
	Kitchen Equipment -					verified by		
8.25	Percentage missing					Assessor	LEAs were asked to quantify the percentage of kitchen equipment missing.	
			Standard: Has Fire					
			alarm and emergency-					
			notification system as					
			required by applicable					
			State fire codes and					
			emergency procedures.					
			Has two-way internal					
			communication system					
			between a central					
			location and each					
			classroom isolated				I FAs were asked to confirm whether the facility has a functioning Emergency Communication System as defined by Educational Sufficiency	
	Emergency		office space and all			I FA and	Standards. The current standards defines the Emergency Comm System as having: Fire alarm and emergency-notification system as required by	
	Communication		other regularly			verified by	annicable State fire codes and emergency procedures. Two-way internal communication system between a central location and each classroom	
8 26	System - Missing		occupied spaces			Assessor	approace of the second state for the second se	
0.20	Emorgoney		occupieu spaces.			A3363301	Isolated once space, and an other regulary occupied spaces.	
	Communication							
0 27	Communication					1546	A notes field use provided to LEAs could describe incluse with the Emergency Communications System or evented on the surrent system in place	
0.27	System Notes		CI. 1. 1. M. 1			LEAS	A notes neid was provided so LEAS could describe issues with the emergency communications system of expand on the current system in place.	
			Standard: Minimum					
			SUUSE [A]reas for					
			waiting, examination					
			and treatment, resting,					
			storage, and an					
			accessible toilet room.					
			Separate room for					
			private consultations					
			and as a health service					
			professional's office.					
			Provide lockable					
			cabinets for medical					
			records and medication					
			and at least one sink in					
			addition to the sink in				LEAs were asked if their Health Room had all the attributes necessary to meet standards. Current standards are defined as: [A] reas for waiting,	
			the toilet room. All				examination and treatment, resting, storage, and an accessible toilet room. Separate room for private consultations and as a health service	
	Health Room		sinks must provide both				professional's office. Provide lockable cabinets for medical records and medication and at least one sink in addition to the sink in the toilet room.	
8.28	Attributes - Missing		hot and cold water.			LEAs	All sinks must provide both hot and cold water.	
	Health Room							
8.29	Attributes Notes					LEAs	LEAs were asked to describe the missing attributes.	
	Health Room					LEA and		
	Attributes - Percentage					verified by		
8.30	missing					Assessor	LEAs were asked to quantify the percentage of Health Room Attributes missing.	

			Calculation (if		Expected	Data Source		Supporting
#	Variable Name	Field Type	calculated )	Example	Data Range	(if fixed)	Description	Docs
			Standards: Spaces for					
			programs requiring					
			licensing, certification,					
			or accreditation by a					
			state board or agency					
			shall meet all applicable					
			health and safety					
			standards. Cosmetology					
			and barber programs					
			shall comply with the					
			sanitation requirements					
			of the State Board of					
			Cosmetologists and the					
			State Board of Barbers,					
			respectively.					
			Science Class Standard:					
			The space shall have					
			science fixtures and					
			equipment, in					
			accordance with the					
			standard equipment					
			necessary to meet the				LEAs were asked if their Lab Spaces, including Science Labs and CTE, had all the safety equipment necessary to meet the program.	
			educational					
			requirements of the				The guidance provided by the IAC on this is: The Lab space has all safety equipment required for curriculum. Complies with state/federal	
	Lab Space Safety		Maryland Science				regulations, LEA Safety Plan, follows industry standard guidelines including but not limited to Natl Institute for Occupational Health and Safety	
8.31	Equipment - Missing		Content Standards.			LEAs	(NIOSH) and Natl Science Teaching Assoc (NSTA).	
	Lab Space Safety							
8.32	Equipment Notes					LEAs	LEAs were asked to describe the missing equipment.	
	Lab Space Safety					LEA and		
	Equipment -					verified by		
8.33	Percentage missing					Assessor	LEAs were asked to quantify the missing safety equipment as a percentage.	
						LEA and		
						verified by		
8.34	Potable Water Issues					Assessor	LEAs were asked if the facility's water service was delivering potable water	
8.35	Potable Water Notes					LEAs	LEAs used this field to elaborate on potable water issues, and describe the system in place (i.e. bottled water)	