### **ATTACHMENT H**

# 2016 Facilities Condition Index, General Environment Scoring Rubric

#### 2016 FCI Scoring Methodology

The FCI score is comprised of two (2) sections: Site-Level and Building-Level Components

Site-level Components are evaluated from a single rating provided for each system at a School (Campus)

Building-level scores are determined by averaging the system scores from multiple buildings (where applicable). The individual building system scores are based on the individual ratings for each applicable building at a School (Campus)\*

Overall Campus (School) FCI is calculated by summing the resulting score for each system.

Each system evaluated carries a weighting, which when added together, should equal 100%

Scoring for each question (System) was based on the following rating for each:

Rating Weight Description

N/A

Minor

Moderate

 $0.0\ \ Not\ Applicable\ -\ When\ a\ question\ is\ answered\ "NA", its\ possible\ weighting\ is\ re-distributed\ back$ 

over the remaining questions for a particular school

0.0 General Maintenance Only - The "0.0" will contribute to the overall FCI score, as opposed to
"NA", where the "0.0" is ignored

0.2 Evaluated system requires Minor repairs

0.5 Evaluated system requires Moderate repairs

Major 0.9 Evaluated system requires Major repairs, but is still functional

Replace 1.1 System requires replacement. "1.1" was chosen to exceed the typical "1.0" assigned to this level

to provide a "boost" to the FCI for all systems marked as "replace" (NOTE: If all systems are marked as "Replace" and FCI would exceed 100%)

<b>Building Condition Ratings</b>	
Score	FCI
1	0% - 24.4%
2	24.5% -39.4%
3	39.5% - 58.9%
4	59% +

<sup>\*</sup> Since overall building SF was reported at the School (Campus) level, it was not possible to determine the SF for each building to effectively provide a "weighted" rating for each building. Thus, ratings for schools that included multiple buildings contributing to the FCI used an equal weighting for each building, regardless of its individual SF.

	Criteria Percent Weight	Group Description	Group Percent Weight	Line Item Description	Line Item Weight	% of Total Score	Score Determination Description
				Park Drives	10.00%		*Rating
				Walkways	10.00%	0.80%	*Rating
			8.00%	Playground	0.00%	0.00%	*Rating
		Site		Drainage	20.00%	1.60%	*Rating
				Site Lighting	20.00%	1.60%	*Rating
				Water Supply	20.00%	1.60%	*Rating
				Septic/Sewer	20.00%	1.60%	*Rating
				Roof, oldest, 2nd oldest	8.70%	8.28%	The weighted average of the ratings for the Oldest and 2nd Oldest roof section. Weight is based on the SF of roofing recorded for Oldest and 2nd Oldest
				Ext Windows, oldest, 2nd oldest	7.61%	7.24%	The weighted average of the ratings for the Oldest and 2nd Oldest windows. Weight is based on the percentage recorded for Oldest and 2nd Oldest windows
				Boilers, oldest, 2nd oldest	6.52%	6.21%	The weighted average of the ratings for the Oldest and 2nd Oldest Boilers. Weight is distributed 50/50 when 2nd Oldest is specified, or 100% when only oldest boiler specified
School Rating FCI	100.00%			HVAC	7.61%	7.24%	*Rating
				Structure	7.61%	7.24%	*Rating
				Ext Doors	5.43%	5.17%	*Rating
		Building	92.00%	Ext Walls	7.61%	7.24%	*Rating
				Floors	5.43%	5.17%	*Rating
				Int Walls	5.43%	5.17%	*Rating
				Ceilings	5.43%	5.17%	*Rating
				Int Other	5.43%	5.17%	*Rating
				Elec Svcs	8.70%	8.28%	*Rating
			Lighting	4.35%	4.14%	*Rating	
			Plumbing	6.52%	6.21%	*Rating	
			Fire Alarms	2.18%	2.08%	*Rating	
				Fire Suppression	2.18%	2.08%	*Rating
				Specialties	2.17%	2.07%	*Rating
				Elevators	1.09%	1.04%	*Rating

<sup>\*</sup>Rating = The Score for this System is based solely on rating recorded from assessor for the individual line-item. See Ratings and associated values on Assumptions Tab

Criteria Description	Criteria Percent Weight	Group Description	Group Percent Weight	Line Item Description	Weight	Rating from DB	Item Rating Score	FCI Score
	A		В		С		D	E=D*C*B
				Park Drives	0.1	Minor	20.00	0.16
				Walkways	0.1	Minor	20.00	0.16
				Playground	0	Minor	20.00	0.00
		Site	8.00%	Drainage	0.2	Replace	110.00	1.76
				Site Lighting	0.2	Minor	20.00	0.32
				Water Supply	0.2	Minor	20.00	0.32
				Septic/Sewer	0.2	Minor	20.00	0.32
		á		Roof, oldest, 2nd oldest	0.087	See Below*	41.67	3.34
School Rating FCI	100.00%			Ext Windows, oldest, 2nd oldest	0.0761	See Below**	20.00	1.40
				Boilers, oldest, 2nd oldest	0.0652	See Below***	20.00	1.20
				HVAC	0.0761	Minor	20.00	1.40
				Structure	0.0761	Minor	20.00	1.40
				Ext Doors	0.0543	Minor	20.00	1.00
				Ext Walls	0.0761	Minor	20.00	1.40
		Building	92.00%	Floors	0.0543	Minor	20.00	1.00
				Int Walls	0.0543	Minor	20.00	1.00
				Ceilings	0.0543	Minor	20.00	1.00
				Int Other	0.0543	Minor	20.00	1.00
				Elec Svcs	0.087	Minor	20.00	1.60
				Lighting	0.0435	Minor	20.00	0.80
				Plumbing	0.0652	Minor	20.00	1.20
				Fire Alarms	0.0218	Minor	20.00	0.40
				Fire Suppression	0.0218	Minor	20.00	0.40
				Specialties	0.0217	Minor	20.00	0.40
				Elevators	0.0109	N/A	0.00	0.00
								22.97

Roof*	Rating		Score	SqFt	Raw Score	Score	
Nooi	raung						
			A	В	C=A*B	C/Total Roof SF	
RooOldestSection	Moderate		0.5	34774	17387	0.361228263	
SecondOldestSection	Minor		0.2	13359	2671.8	0.055508695	
		Total		48133		0.416736958	(Sum)
						41.6736958	(Sum * 100)
Windows**	Rating		Score	Window %	Raw Score	Score	
			Α	В	C=A*B	C/Total Window %	
RooOldestSection	Minor		0.2	100	20	0.2	
SecondOldestSection	N/A		0	0	0	0	
		Total		100		0.2	(Sum)
						20	(Sum * 100)
Boilers**	Rating		Score	Window %	Raw Score	Score	
			A	В	C=A*B	C/Total Window %	
RooOldestSection	Minor		0.2	50	10	0.1	
SecondOldestSection	Minor		0.2	50	10	0.1	
		Total		100		0.2	(Sum)
						20	(Sum * 100)

## B = Based on the following Rating Weight N/A 0.0 GMO 0.0 Minor 0.5 Major 0.9 Replace 1.1

Except for Roofs, Windows and Boilers (See Calculation Below)

#### MSBA School Facility General Environment Rating Calculations 2016

Scores - [1 (0-25), 2 (25-40), 3 (40-60), 4 (60+)]

а	b	r	d	e = b x d	f	g	h	i = e x h	Example: [District] / [School]				
GE Category	overall weight	GE Sub Category	tier weight	overall weight	GE Assessment Measure	Calculation logic	tier weight	overall weight	Survey data and calculation	Line item score	Category Score		
Lagueira					Natrual Light Score	% rooms w/o natural light (Classrooms Lacking Daylight / Total Physical Classrooms)	40%	1.6%	0/29 x 1.6%	0			
		Suitable spaces	40%	4.0%	Open Floorplan	Yes: 1, No: 0	40%	1.6%	No, 1 x 1.6%	1.6			
Learning	10.0%				Restroom on every floor	Yes: 0, No: 1	20%	0.8%	Yes, 0 x 0.8%	0	3.7		
Environment		Building Condition Rating	50%	5.0%	Building Condition Rating	Total FCI Score (0.00-1.00)	100%	5%	0.32 x 5%	1.6			
		Cleanliness and Maintenance	10%	1.0%	General Cleanliness/Routine Maint/Captial Maint Rating	**See Maintenance Score Table	100%	1%	0.50 x 1%	0.5			
					Surveillance Camera - exterior	Full: 0, Partial: 0.5, None: 1	5%	0.5%	Partial, 0.5 x 0.5%	0.25			
					Surveillance Camera - main entrance	Full: 0, Partial: 0.5, None: 1	5%	0.5%	Partial, 0.5 x 0.5%	0.25	_		
					Surveillance Camera - interior	Full: 0, Partial: 0.5, None: 1	5%	0.5%	Partial, 0.5 x 0.5%	0.25			
					Intrusion Alarm	Full: 0, Partial: 0.5, None: 1	15%	1.5%	None, 1 x 1.5%	1.5			
					Metal Detector	Full: 0, Partial: 0.5, None: 1	5%	0.5%	None, 1 x 0.5%	0.5			
		School Security	80%	10.0%	Secure Entry	Yes: 0, No: 1	20%	2%	Yes, 0 x 2%	0			
<b>Building Safety</b>	12.5%				FT Security Staff	Yes: 0, No: 1	5%	0.5%	Yes, 0 x 0.5%	0	4.519		
					Visible site approach	Yes: 0, No: 1	5%	0.5%	No, 1 x 0.5%	0.5	_		
					Credentials/ID system	Yes: 0, No: 1	5%	0.5%	No, 1 x 0.5%	0.5	_		
					Two-way communication	% of classrooms without 2-way (TwoWay Classroom Count / Total Tech Classrooms)	20%	2%	1/29 x 2%	0.069	_		
					Site Lighting Condition Rating	Site Lighting Score (NA/GMO = 0.0, Min = 0.2, Mod = 0.5, Maj = 0.9, Rep = 1.1)	10%	1%	Minor, 0.2 x 1%	0.2	4		
		Fire/Life Safety	20%	2.5%	Fire Alarm, Egress Condition Rating	Fire Alarm Score (NA/GMO = 0.0, Min = 0.2, Mod = 0.5, Maj = 0.9, Rep = 1.1)	75%	1.875%	Minor, 0.2 x 1.875%	0.375	_		
		-,,			Fire Suppression Condition Rating	Fire Suppression Score (NA/GMO = 0.0, Min = 0.2, Mod = 0.5, Maj = 0.9, Rep = 1.1)	25%	0.625%	Minor, 0.2 x 0.625%	0.125	-		
		6	50%	6.3%	Designated accessible parking	Yes: 0, No: 1 Yes: 0, No: 1	50% 50%	3.125%	Yes, 0 x 3.125% Yes, 0 x 3.125%	0			
Universal	12.5%				Accessible site and playgrounds  Accessable primary/secondary entrance	Main & Second: 0, Main Only: 0.1, Second Only: 0.25, Neither: 1	35%	3.125% 2.1875%	Both, 0 x 2.1875%	0	0		
Accessibility	12.3/0		50%	6.3%	All floors accessible	Yes: 0, No: 1	30%	1.875%	Yes, 0 x 1.875%	0	-		
•		building Accessibility	30%	0.376	Accessible restroom	Yes: 0, No: 1	35%	2.1875%	Yes. 0 x 2.1875%	0	_		
Academic		Capacity Score	65%	19.5%	Capacity Score	Capacity Score (<110% = 0, 110-130% = interpolate from 0-1, >130% = 1)*** confirm	100%	19.5%	527 / 557 = 0.95 util; 0 x 19.5%	0			
	30.0%				• •						0		
Sufficiency		Classrooms in Modulars	35%	10.5%	Classrooms in Modulars	Classrooms in Modulars / Physical Room Count	100%	10.5%	0/29 x 10.5%	0			
		Specialized Classrooms			Science lab/demo count satisfies enrollment standard	=1 - Actual Sci Demo lab count / Required count(Enrollment in Grades 5-12 / (23 students/calssroom * .85 utilization factor ) * (5/30 periods per week); (0 if Actual >= Required)	25%	2.5%	(1- (3 / ROUND((527 / (23 x .85) x (5/30)))) * 2.5%	0.625			
					Science gas/water	(Sci Labs with Water / Rqd Count(SciDemoLab)) * .5 + (Sci Labs with Gas / Rqd Count(SciDemoLab)) * .5	5%	0.5%	W/Water: 3, Rqd: 1, Score 0; W/Gas: 3, Rqd:1, Score:0 (0 x .5 + 0 x .5) * .5%	0			
			40%	10.0%	Computer Lab Present	(Comp Lab Count / Rgd Count(CompLab))	10%	1%	1-(1/1) x 1%	0			
Drogram					Art Present	(Art Room Count / Rqd Count(Art))	20%	2%	1-(1/1) x 2%	0	_		
Program	25.0%	<mark>)%</mark>			Music Present	(Music Room Count / Rqd Count(Music))	20%	2%	Rqd: 0, then Score=0; 1-(0/0) x 2%	0	11.624		
Sufficiency					Voc Classroom Present	(Voc Room Count / Rqd Count(VocClass))	1-(0/1) x 1%	1					
					Voc Shop Present	(Voc Shop Count / Rqd Count(VocShop))	10%	1%	Rqd: 0, then Score=0; 1-(0/0) x 1%	0			
		Core Spaces	60%		Library Present	Yes: 0, No: 1	33%	5%	No; 1 x 5%	5.0			
				15.0%	Cafeteria dining SF vs enrollment	Min lunch seatings (Enrollment / Cafeteria SF / 15): 0-3 = 0.00, 4 = 0.25, 5 = 0.50, 6 = 0.75, 7+ = 1.00	33%	5%	Score= 527/0/15 = 0; 0 x 5%	0			
				13.076	Gymnsasium Present	Yes: 0, No: 1	33%	5%	No; 1 x 5%	5.0			
					Auditorium	Yes: 0, No: 1		0%	Not scored	0			
		Internet Access	30%		1Gbps WAN, 1Gbps LAN	(LAN: Yes: 0, No:0.5)+(WAN: Yes:0, No:0.5)	15%	0.45%	WAN Yes, LAN No; 0+0.5 x 0.45%	0.225	_		
				3.0%	Fiber connection	Yes: 0, No: 1  HundredKBPSPerStudent&MBPSPerStudent:0, HundredKBPSPerstudent Only:0.25, MBPSPerStudent Only:0,	55%	1.65%	Yes, 0 x 1.65%	0	-		
					100 Kbps/student, 1 Mbps/student	Niether:1	15%	0.45%	0 x 0.45%	0	_		
					Affordable broadband	Yes: 0, No: 1	15%	0.45%	Yes, 0 x 0.45%	0	-		
				3.0%	% of Classrooms w/ Network Cabling	WiredClassroomCount / Required Tech Classrooms	30%	0.9%	28/29 x 0.9%	0	_		
		Cable/Wifi Extent 30			% of Classrooms w/ Wireless Network	Placeholder, not scoring	35%	1.05%	Not scored	0	_		
Instructional	10.00/		30%		Library Wireless Access  Cafeteria Wireless Access	Yes: 0, No: 1 Yes: 0, No: 1	20% 5%	0.6% 0.15%	No, 1 x 0.6% No, 1 x 0.15%	0.6 0.15	2.275		
Technology	10.0%				Gymnasia Wireless Access	Yes: 0, No: 1	5%	0.15%	No, 1 x 0.15% No, 1 x 0.15%	0.15	3.275		
					Auditorium Wireless Access	Yes: 0, No: 1	5%	0.15%	No, 1 x 0.15%	0.15			
				2.0%	75%+ Classrooms w/ Sufficient Power	Yes: 0, No: 1	50%	1%	Yes, 0 x 1%	0.13	1		
			20%		Electrical Distribution Condition Rating	Electrical Score (NA/GMO = 0.0, Min = 0.2, Mod = 0.5, Maj = 0.9, Rep = 1.1)	50%	1%	Minor, 0.2 x 1%	0.2			
					Device to Student Ratio	1=0, 2=.5, 3=.75, 4=.9, 5+=1	40%	0.8%	5+; 1 x 0.8%	0.8			
					Infrastructure impact assessments	Yes: 0, No: 1	10%	0.2%	No, 1 x 0.2%	0.2			
		Classroom Technology	20%		% of Classrooms w/ Display Technology	ComputerDisplayCount / Required Tech Classrooms	40%	0.8%	29/29 x 0.8%	0.8			

100.0% 100.0% SAMPLE GE SCORE: 23.1