HCPSS Strategic Plan – Priority 4

EDUCATIONAL SUFFICIENCY, PROGRAM SPACE ADEQUACY, AND CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN ASSESSMENT

Presentation to the HCPSS PTACHC

October 6th, 2026

Howard County Public School System

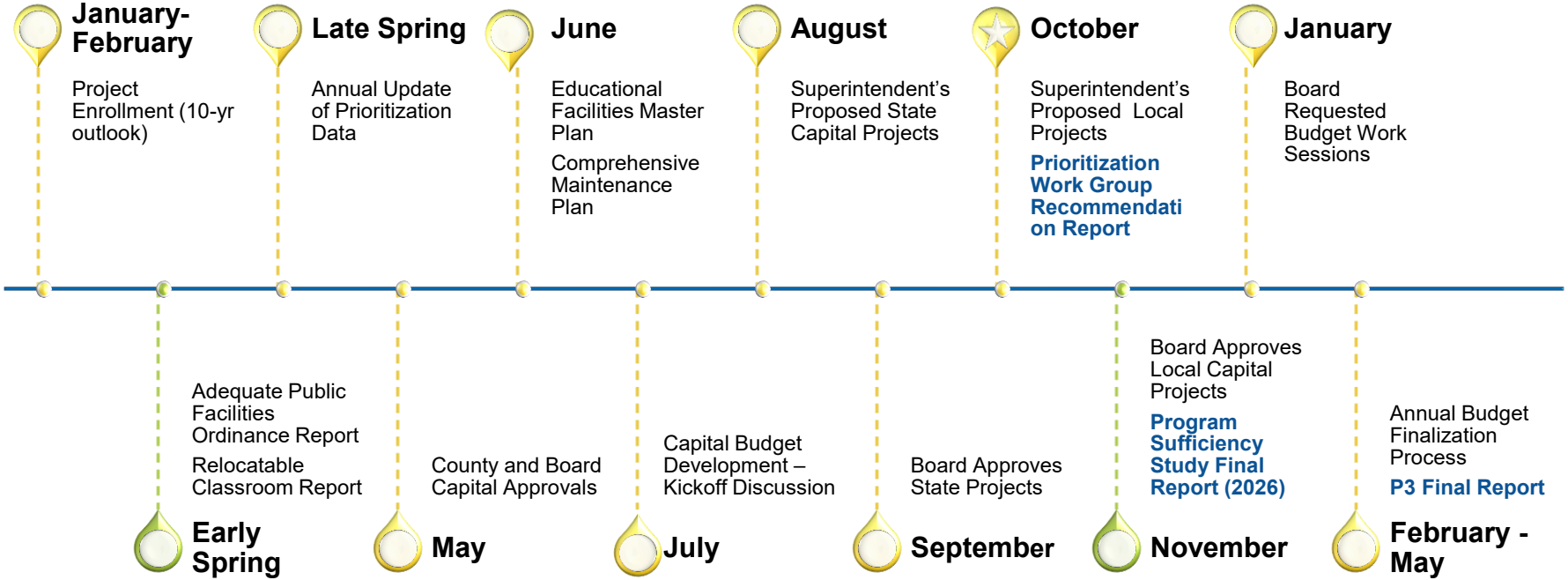
Program Sufficiency Study







HCPSS CAPITAL PLANNING TIMELINE



Educational Sufficiency Study

Purpose:

- Provide more comprehensive data for the programmatic sufficiency of our facilities

Process:

- Consultant team headed by Grimm & Parker Architects
  - Leuterio Thomas, LLC, Fisher Collins and Carter (civil)
- Stakeholder engagement
- Three primary steps:
  - Educational Specification Updates
    - Creation of Admin Specifications
  - Facility Assessment (Site Visits)
    - Existing Conditions
    - Crime Prevention Through Environmental Design (CPTED)
  - Develop Sufficiency Indices

SCHOOL	55%/45% SCORE	55%/45% RANK	FCI	DEF MAINT	TRACK	HEALTH / SAFETY	FCI FEED	UTIL	UTIL FEED	EDUC
Max Points Per Criterion			20	15	5	10	10	35	10	10
Bryant Woods ES	76.8	1	15.3	7.0	**4.6**	**5.97**	0.0	**35.0**	0.0	**10.0**
Centennial Lane ES	71.8	2	17.0	3.5	**3.0**	5.55	7.2	**20.1**	**10.0**	5.6
Dunloggin MS	65.8	3	**18.5**	5.3	1.9	4.96	**9.4**	**11.8**	5.5	7.5
Hammond MS	64.2	4	16.9	4.5	1.2	3.70	8.8	**13.7**	**8.1**	6.8
Bollman Bridge ES	60.8	5	12.2	2.0	1.2	5.83	0.0	**30.3**	**7.4**	3.4
Hammond ES	59.5	6	16.9	3.6	0.8	5.14	8.8	**10.8**	**8.1**	4.6
Atholton ES	59.0	7	17.2	4.7	2.1	5.55	**9.7**	9.5	0.0	**8.9**
Ilchester ES	56.6	8	16.3	**15.0**	1.5	**6.34**	**9.8**	0.0	0.0	4.4
Worthington ES	55.7	9	16.5	9.7	**2.6**	**6.67**	**10.0**	0.0	0.0	7.4
Patapsco MS	55.5	10	**18.2**	9.9	1.9	4.69	7.7	4.2	0.0	6.6

** Found on Pages 98 and 99 of Educational Facilities Master Plan (EFMP)

Purpose

Revise existing **Educational Specifications + administrative programs** to reflect the future vision for HCPSS facilities

Assess HCPSS facilities on **safety & security and educational sufficiency** – using the revised ed specs as a baseline

Provide **data and analysis** that will help identify and prioritize needs

Purpose

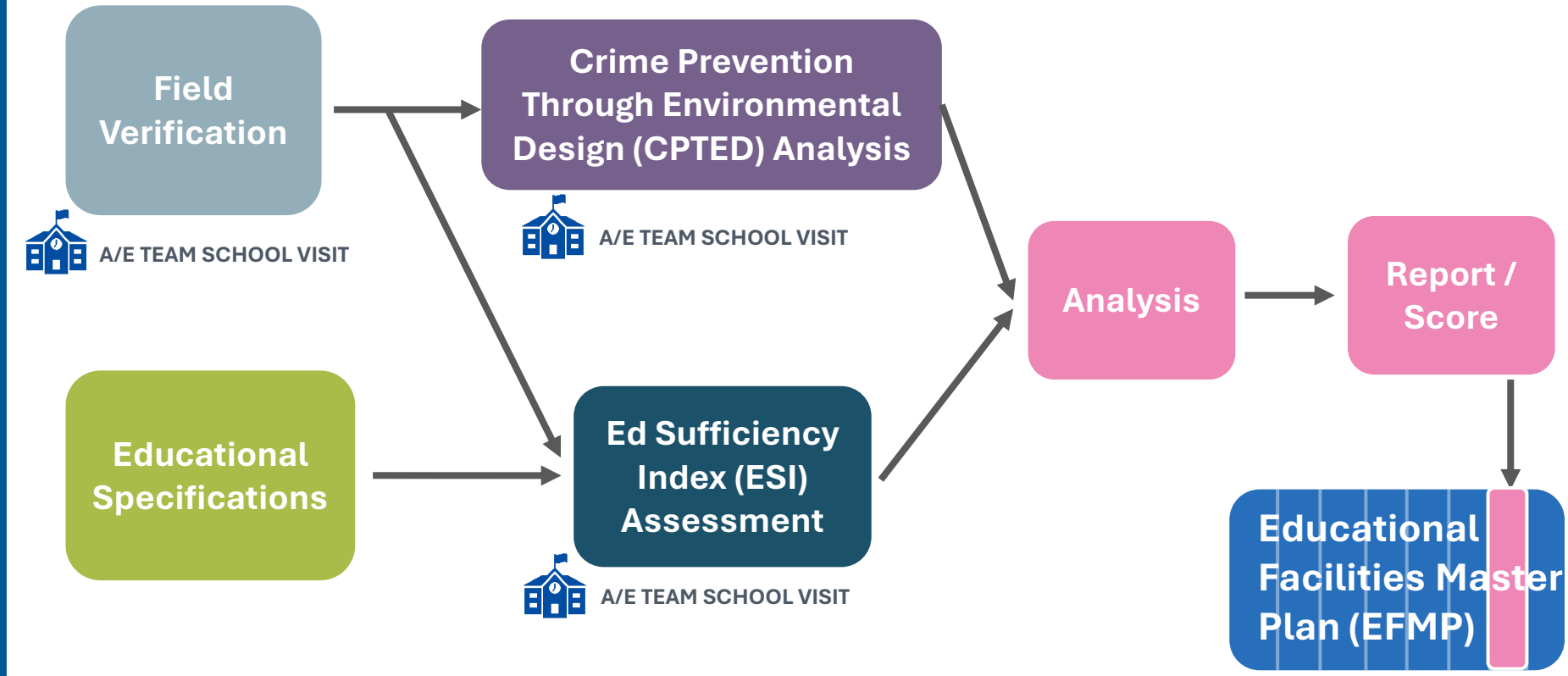
What this assessment is

- Update all of HCPSS Educational Specifications
- Comparison of existing conditions against the Educational Specification requirements
- Assessing your facilities' educational adequacy against a baseline standard
- Space Summary Comparison

What this assessment is not

- Facility Conditions Assessment - Evaluation of the physical condition of the building systems – envelope, ceilings, floors, paint, roof, etc
- Staffing evaluations to determine proper staffing
- Providing solutions for deficiencies

Process


Field Verification
A/E TEAM SCHOOL VISIT
Crime Prevention Through Environmental Design (CPTED) Analysis
A/E TEAM SCHOOL VISIT
Educational Specifications
Ed Sufficiency Index (ESI) Assessment
A/E TEAM SCHOOL VISIT
Analysis
Report / Score
Educational Facilities Master Plan (EFMP)

ESI Analysis Scoring

Analysis & Scoring

- Each space is categorized by a HCPSS identification Number
- Each space is evaluated on a series of guidelines
- Spaces are graded out of 5 points
  - 5 points is given in a category if the rooms meets all requirements
  - 1 point is given in a category if the room fails to meet requirements

		REQUIREMENTS	ES ONLY K = 22, Grade 1-2 = 19, Grade 3-5 = 25 STUDENTS DESKS FOR ALL	2 TEACHING WALLS	PRIMARY + SECONDARY TEACHING WALLS 16' OF MB + (2)4' TB 5= both teaching walls have 16 + 4. If chalkboard deduct 1 pt	PROJECTOR, AUDIO, TEACHER WORKSTATION	C
EDID#	ROOM #	ROOM NAME	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	
		(PRE-POPULATE BEFORE EACH VISIT)					
525057	14	ELD	4.00	3.00	2.00	1.00	
525086	69	INSTRUMENTAL MUSIC	5.00	3.00	3.00	1.00	
525145	13	SPEECH	4.00	1.00	1.00	1.00	
525003	1	MINC		3.00	2.00	5.00	
525004	2	MINC		3.00	2.00	5.00	
525005	3	MINC-PK		3.00	3.00	1.00	
525009	4	PRE-K	5.00	3.00	3.00	1.00	
525012	5	PRESCHOOL	5.00	3.00	3.00	1.00	
525015	6	MINC-PS	4.00	3.00	3.00	1.00	
525063	7	ART	5.00	3.00	3.00	1.00	

Sample ESI Classroom Evaluation form

ESI EVALUATION CATEGORIES

01 General Requirements
02 School Site
03 Site Recreation and Outdoor Physical Education
04 Academic Classroom Spaces
05 General Use Classrooms
06 Specialty Classrooms
07 Library Media Center
08 Physical Education
09 Food Services
10 Other Facility Areas
11 General Storage
12 Maintenance & Janitorial Space

ESI Analysis Scoring

Site Amenities

- Site amenities are evaluated in ESI Evaluation category 03
- Each feature is evaluated on a series of guidelines
- Spaces are graded out of 5 points
  - 5 points is given in a category if all requirements are met
  - 1 point is given in a category if the amenity fails to meet requirements

ED SPEC REQUIREMENT	DOES IT EXIST?	CORRECT SIZE?	IS IT FUNCTIONAL/GOOD CONDITION?	ASSESSOR COMMENTS
STADIUM WITH TRACK CONTAINING:				
10-lane metric track, Stratto track or approved equal	5.00	3.00	5.00	Only 8 track lanes
Field designed for field hockey, football, lacrosse, and soccer; 75 yards wide	5.00	1.00	5.00	
Artificial turf with underground drainage system	5.00	5.00	5.00	
Home seating for 1500, visitor seating for 1000	5.00	5.00	5.00	
Fenced and designed for traffic flow for athletes	5.00	5.00	5.00	
Pole vault, high jump, and 2 long jump runways and pits	5.00	5.00	5.00	
1 discus and 1 shot put concrete pads. Each discus area must be in a discus cage. Must meet NFHS Field standards. Field should be for both Discus and Shot Put, so both circle dimensions are included on the throwing pad. They can be combined as long as they are designed correctly	1.00	1.00	3.00	Shot Put Only / corrections being implemented
Concession stands with running water and electricity	5.00	5.00	5.00	
Stadium to be ADA accessible for students and spectators	5.00	5.00	5.00	
Restrooms within stadium	5.00	5.00	5.00	Not sized for capacity of stadium
Large electric scoreboard for football, soccer, and lacrosse.	5.00	3.00	5.00	No lacrosse timing for penalties
TENNIS COURTS				
Eight courts to be included	3.00	4.00	5.00	Only 6 tennis courts

What is CPTED?

Physical design and ***social management*** can positively affect human behavior.

The ***proper design*** and ***effective use*** of the built environment that can lead to a reduction in the fear of crime and incidence of crime, and an improvement in the quality of life.

The goal of CPTED is to reduce opportunities for crime that may be inherent in the design of facilities.

Key Concepts

- Natural Surveillance
- Natural Access Control
- Territorial Reinforcement
- Maintenance



Supporting Elements

- Traffic Calming
- Landscaping
- Transition Zones
- Lighting
- Light Trespass/Pollution
- Celebrated Entryway
- Focal Points
- Wayfinding
- Pedestrian Scale
- Connectability
- Positive Activity Generators
- Negative Activity Generators
- Social Management
- Organized Security
- Mechanical Security



CPTED PURPOSE

What this assessment is

- Evaluation of existing HCPSS facilities as they relate to our benchmark CPTED evaluation tool (based on the 2017 CDC standards)
- Assessing your facilities' ability to passively affect human behavior to reduce crime and increase safety on school properties

What this assessment is not

- Stress test of the security measures at HCPSS school facilities by means of school shooter drills
- Evaluation of hardware specifications or security camera layouts
- Staffing evaluations to determine proper staffing for adequate site supervision

CPTED Analysis Scoring

Analysis & Scoring

- Facilities were evaluated on prompts addressing the four key CPTED principles
  - Natural Surveillance
  - Territorial Reinforcement
  - Access Control
  - Maintenance
- Criteria are graded out of 5 points
  - A score of 5 indicates a preferred condition
  - A score of 1 indicates a deficiency

Evaluation Text	Notes to Assessor	Score	Comments
School property boundaries are delineated from adjacent properties.		5	
Any perimeter fencing allows for natural surveillance of schoolgrounds.		5	
The perimeter is secured in areas not easily monitored.	Indicate on plan as required.	5	
Signs direct approaching vehicles and pedestrians to appropriate entries to the school property.	Busses vs staff vs visitors are distinguished.	3	Lack of signage
Posted rules are located at key points around the school grounds.		5	
Entries to the school property are clear.		5	
There is a visible sign indicating the school's name near the primary entry.		5	
Signs, at each primary entry to the school property, direct students, staff, visitors, and delivery traffic to appropriate locations.		3	
Entries to the school property can be easily monitored.	Indicate on plan as required.	5	

Sample CPTED Evaluation form

CPTED EVALUATION CATEGORIES

01 Site
02 Building Exterior
03 Building Interior

Observations

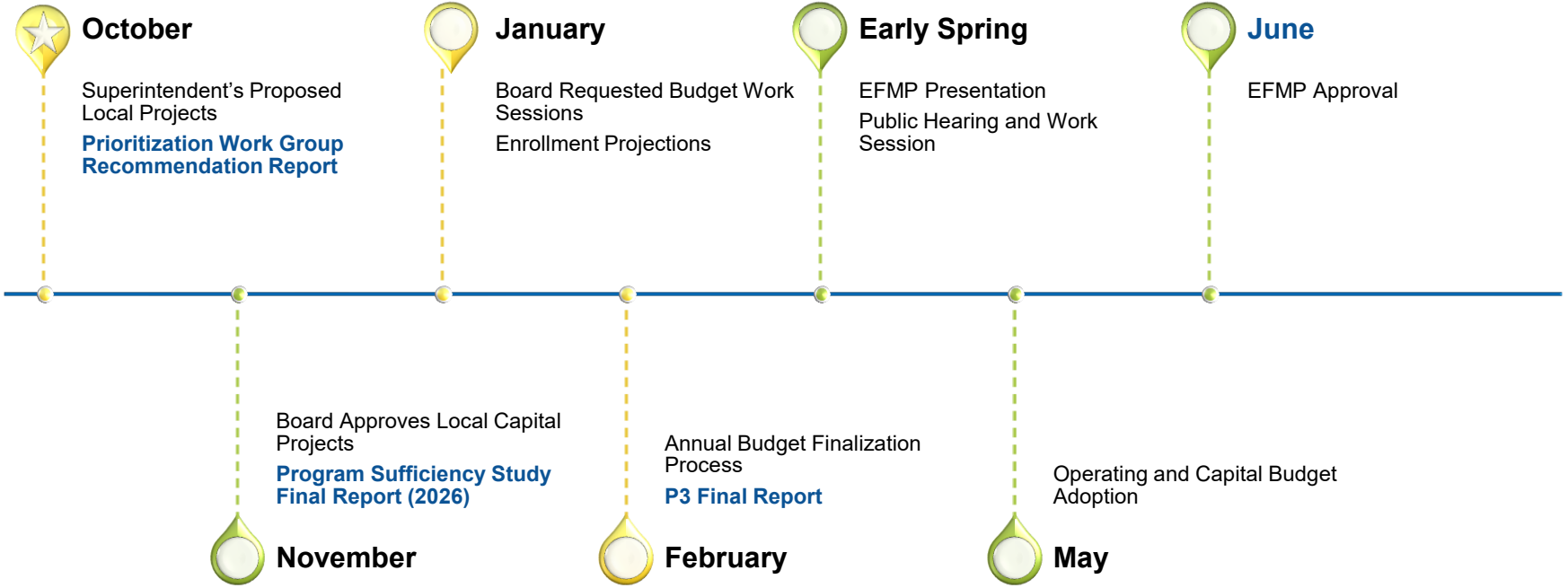
Educational Sufficiency Assessments

- Spatial concerns
  - Need for Resource Rooms
  - Need for larger Classrooms
- Impact of Special Ed on classroom/resource spaces assignment
- Adequacy of performing art spaces
- Outdated technology standards

CPTED Assessments

- Operational Safety Issues
  - Bell Schedules & Building Entry
  - Arrival & Dismissal Protocols
- Fundamental Issues
  - Bus vs Car Loops
  - Unsupervised areas
- Observed new classroom hardware standards in recent construction and renovation projects

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Discussion





