



RESILIENCE is the capacity of individuals, communities, institutions, businesses, and systems within a city to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks they experience.

Source: 100 Resilient Cities

CHRONIC STRESSES are slow-moving disasters that weaken the fabric of a city:

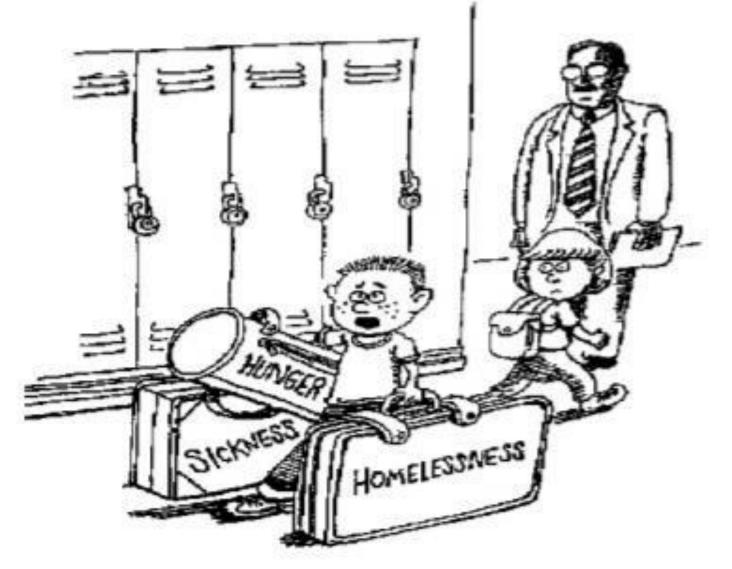
- Unemployment & poverty
- Deteriorating transportation infrastructure
- Endemic crime & violence
- Hunger & food deserts

Source: 100 Resilient Cities

ACUTE SHOCKS are sudden, unpredictable events that threaten a city:

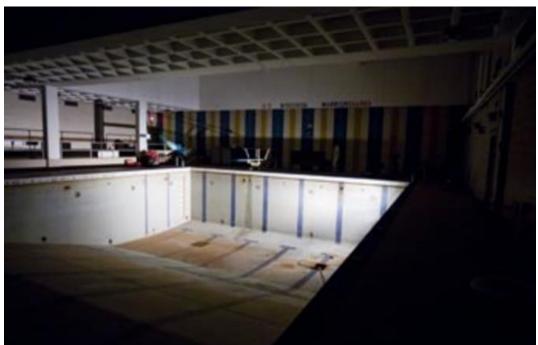
- Natural disasters
- Terrorist attacks
- Disease outbreaks
- Political/social unrest

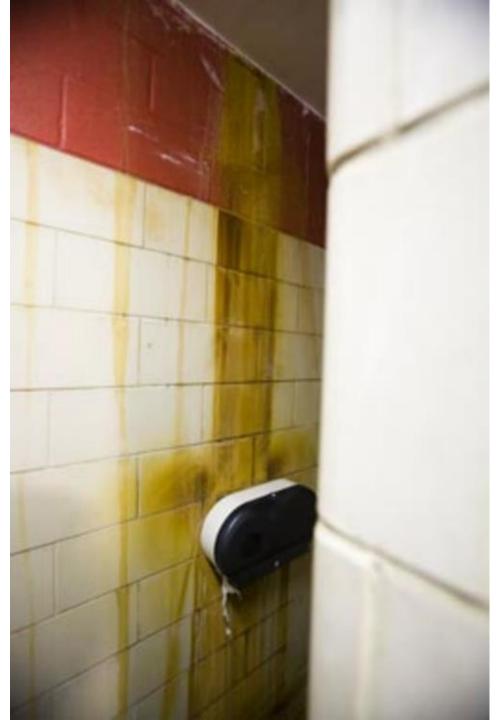
Source: 100 Resilient Cities



"Could someone help me with these?
I'm late for math class." someone









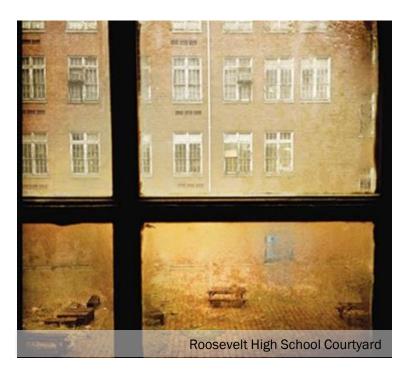


THE DC SCHOOLS MODERNIZATION PROGRAM

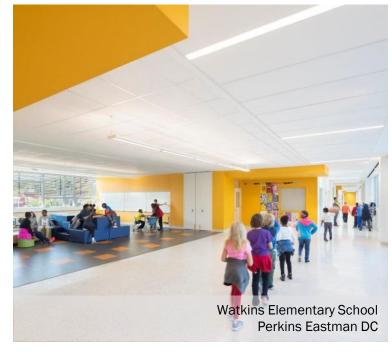
- Dedicated Funding Source
 - School Modernization
 Financing Act of 2006
- Shared Oversight
 - Deputy Mayor for Education
 - District of Columbia Public Schools (DCPS)
 - DC Department of General Services (DGS)
- Long-Term Investment
 - \$250M/year, \$3.2B to date



STABILIZE, MODERNIZE, OPTIMIZE

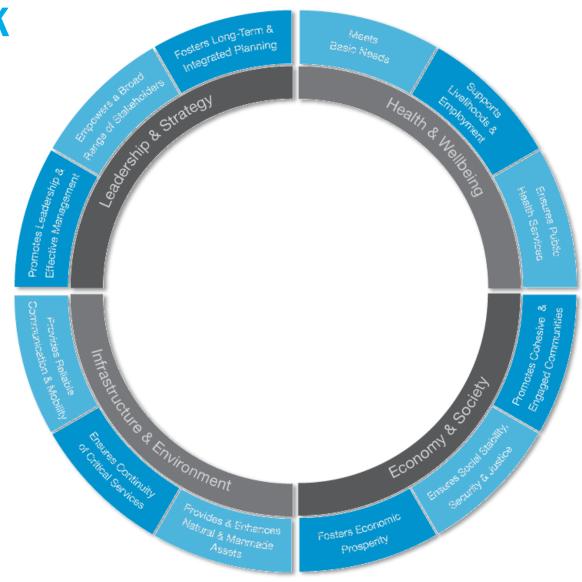






CITY RESILIENCE FRAMEWORK

- Leadership & Strategy
- Health & Wellbeing
- Infrastructure & Environment
- Economy & Society





Fosters long-term & integrated planning Empowers a broad range of stakeholders Grows future generations of leaders

Economy & society



Health & wellbeing



Infrastructure & environment





Economy & society



Fosters economic prosperity
Promotes equality and social justice
Builds community

Health & wellbeing



Infrastructure & environment





Economy & society



Health & wellbeing



Meets basic needs
Contributes to public health
Promotes recreation & wellness

Infrastructure & environment





Economy & society



Health & wellbeing



Infrastructure & environment



Improves the natural and manmade environment Provides emergency services
Promotes environmental stewardship



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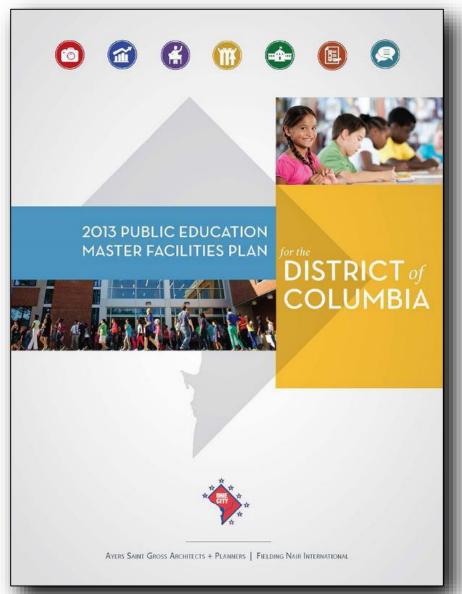


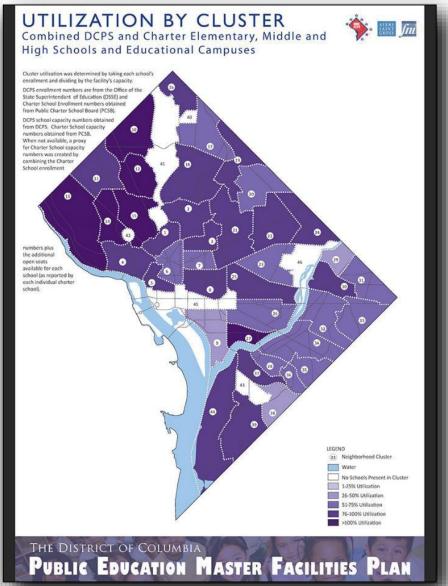
Improves the natural and manmade environment Provides emergency services
Promotes environmental stewardship

PROMOTE EQUITY AND ACCESS TO RESOURCES CITY-WIDE









ENABLE MULTI-AGENCY COOPERATION





















INVOLVE THE SCHOOL COMMUNITY IN THE DESIGN PROCESS III



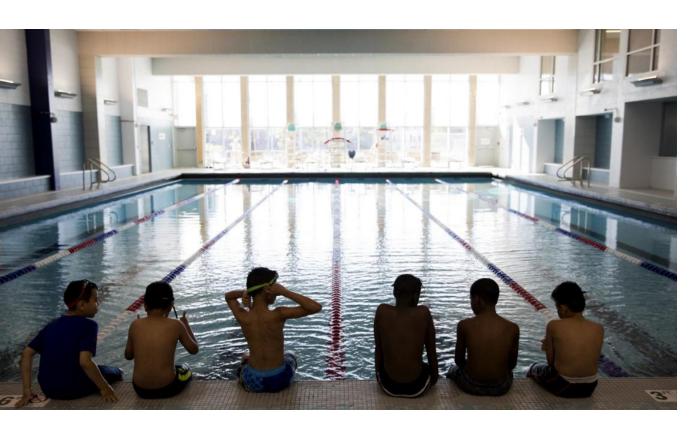






CREATE PLACES FOR FITNESS & RECREATION THAT CAN BE USED BY COMMUNITY OUTSIDE SCHOOL HOURS







PARTNER WITH COMMUNITY ORGANIZATIONS TO OFFER NUTRITION AND WELLNESS SERVICES





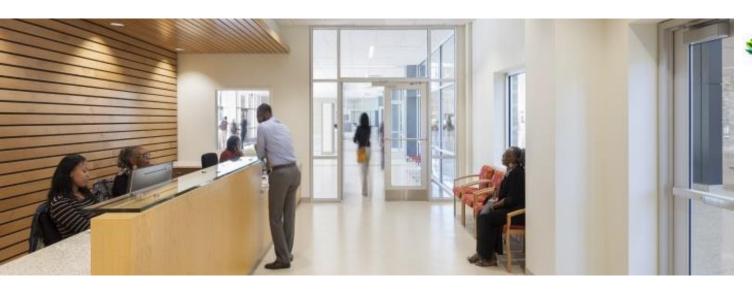


ENSURE STUDENTS ARE SAFE AT SCHOOL









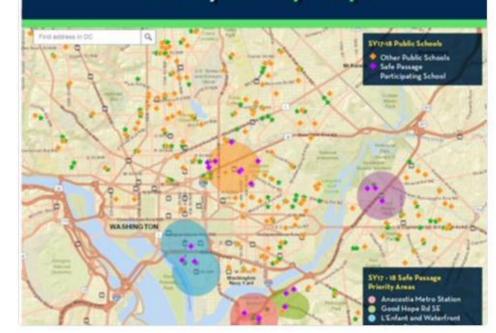




Find out how we are keeping students safe as they travel to and from school and map out your safe route to school using our new interactive map at dme.dc.gov/safepassage #EdWeekDC

SAFE PASSAGE TO SCHOOL

Ensuring our students can travel to and from school safely every day.



PRACTICE SUSTAINABLE DESIGN AT ALL SCALES III UT















envelope is designed to allow natural light and fresh air into the building while keeping

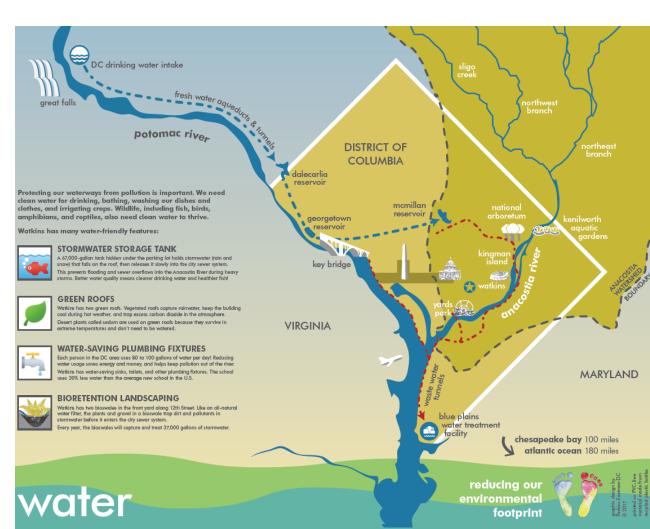


housekeeping, and pervasive daylighting and views enhance the quality of the





Rainwater collection and water efficient fixtures reduce demand for fresh water and help retain storm water runoff.



CREATE HIGH-PERFORMANCE LEARNING ENVIRONMENTS





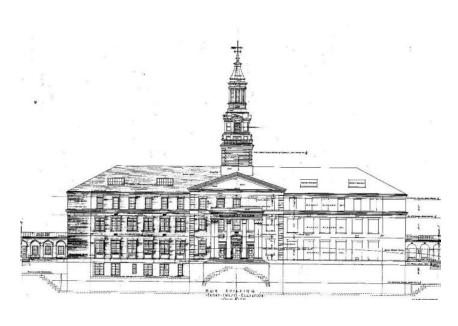
CASE STUDIES



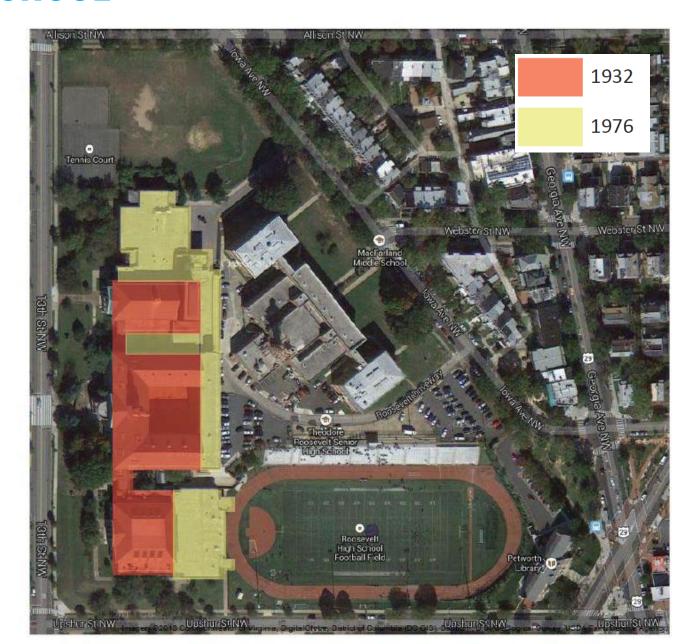




A HISTORIC NEIGHBORHOOD SCHOOL







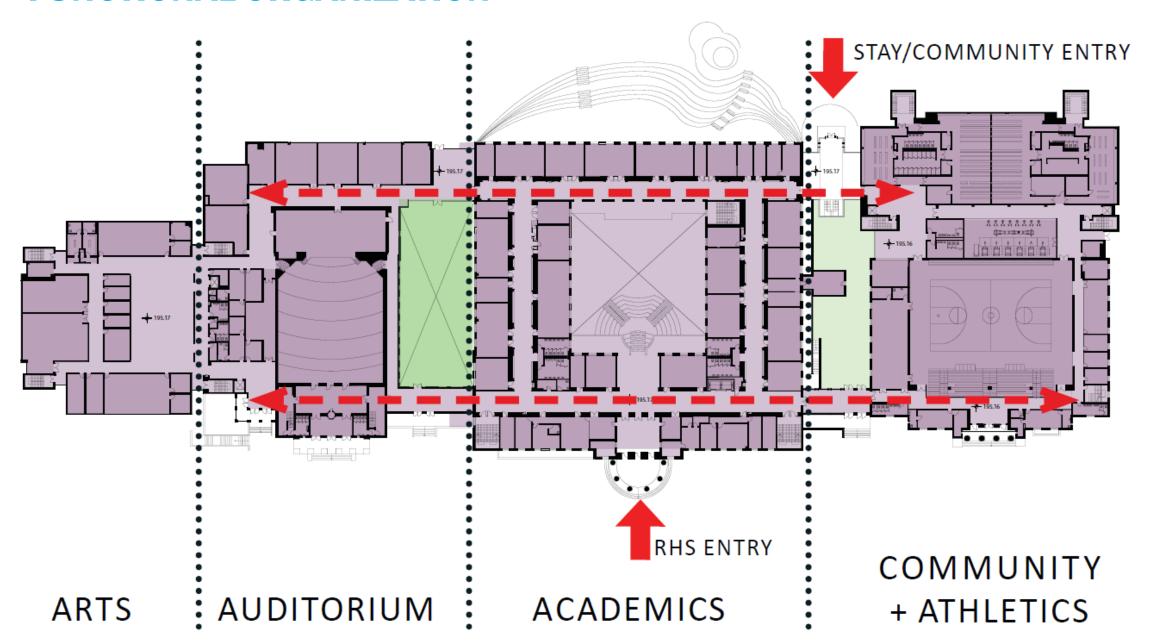
A WELCOMING ENTRANCE







FUNCTIONAL ORGANIZATION



CONNECTING TO THE COMMUNITY







& strategy

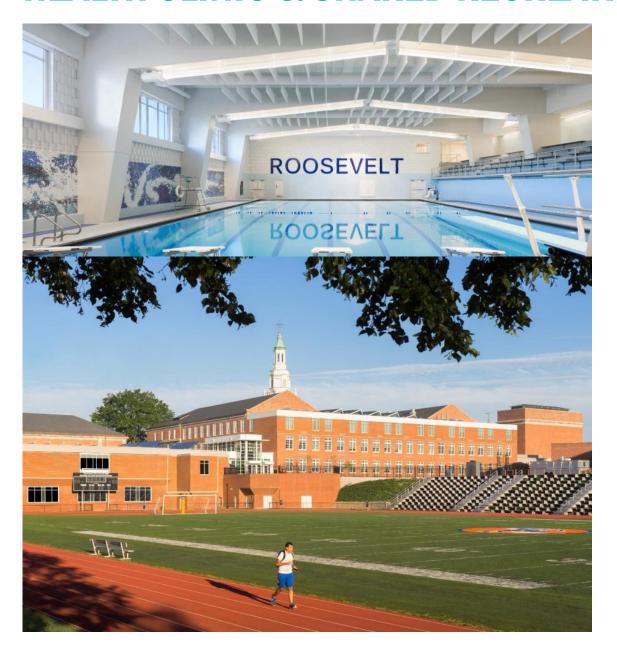


Economy & society



Health & wellbeing

HEALTH CLINIC & SHARED RECREATION

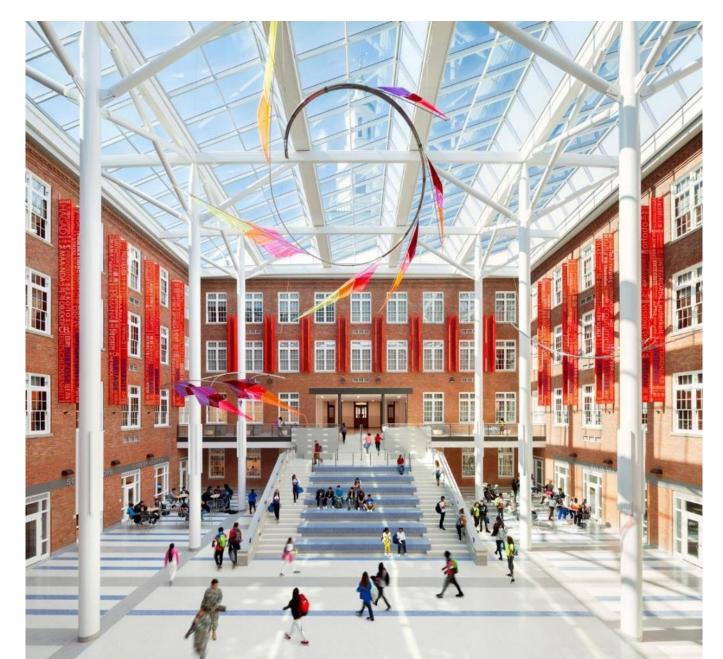




17 3



CREATING A 'HEART'







CONNECTING TO THE COMMUNITY





& society

THE 'WATERWORKS' | TEACHING BUILDING









The greenhouse and garden serve the chool and community as teaching tools for local, sustainable agriculture.

Drowing lood locally puts us in touch with the seasons, yields fresh and tasty fruits and vegetables, and reduces pollution from



Ample natural light and views to the outdoors improve the quality of the interior environment and enhance learning.

Natural lightis, providing for over 30% to cleararooms and offices at Parasity of the Committee of the Comm

RECYCLED CONTENT

Selecting products made with recycled content keeps useful materials out of landfills and preserves natural resources

(werry percent of the building materials at Rocevell, including windows, doors, centrals tile, and acoustic ceiling panels, are made with recycled content.

3

GEOTHERMAL

A ground-source heat pump system (also known as a geothermal system) under the north athletic fields supports Roosevelt's commitment to energy efficiency.

The geothermal system, made up of more than 200 wells that measure 500 feet deep, takes advantage of the earth's constant year-round temperature to help heat and cool the building. This system reduces the building's demand for energy from loss I tuels.



WATERWORKS

Rainwater harvested from the roof is stored in three cisterns in the Waterworks Courtyard and reused for flushing toilets

With two 15,000-gallen cisterns buried below the landscaped terracer and one 25,000-gallen cistern above ground, the school can collect

By diverting rainwater from running off the site, the Roosevelt camps



* ELECTROCHROMIC

The atrium skylight features electrochromic glass, which automatically tints throughout the day based on the amount of sunlight. This keeps the atrium comfortable and saves energy.

ctrocfromic glazing on the south-facing sections provides daylight views while blocking solar heat gain and glaze. This "smart" skylight

RESTORING SCHOOL PRIDE

- Daily attendance has increased
- Student re-enrollment has increased by 10%
- Student safety is reported as having increased by 9%
- Participation in AP courses has increased by 16%
- Successful completion of AP courses has increased by 8%





Leadership & strategy



- Involve the community throughout the design process
- Reinforce the civic identity of the school in the design
- Hire local businesses and artists to work on the project

Economy & society



 Learn the history of the community, the school, and the people (community banners)

Health & wellbeing



- Identify programs & spaces for joint use by the community
 - Public health clinic
 - Partnership with parks & recreation

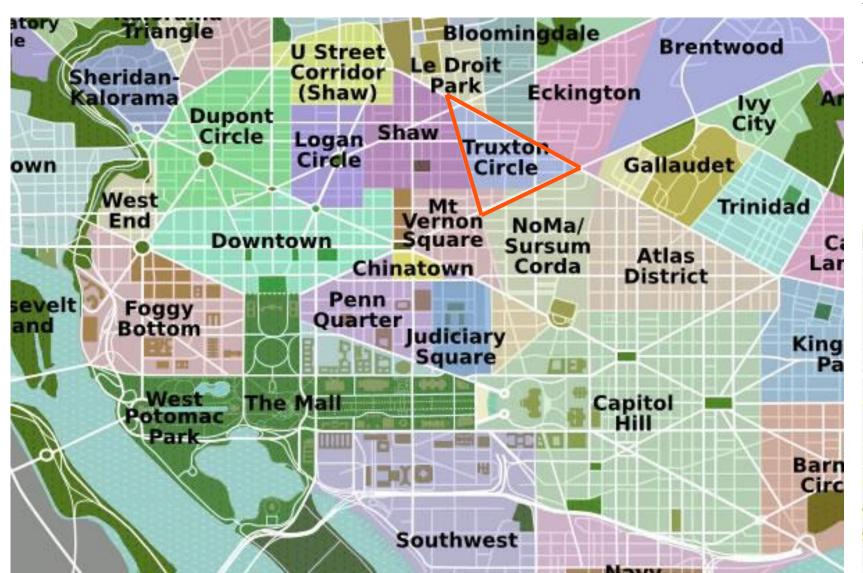
Infrastructure & environment

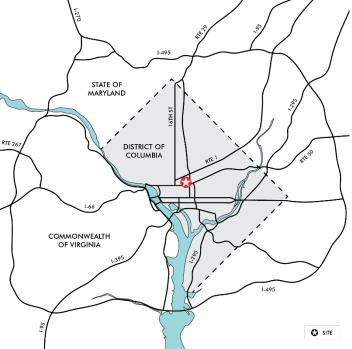


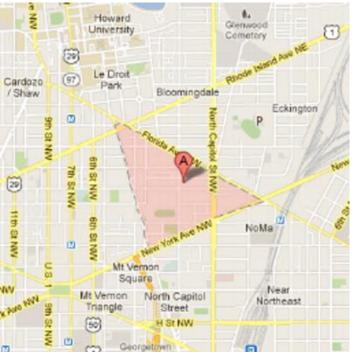
- Storm water management
- Solar Energy
- Educational signage



URBAN CONTEXT



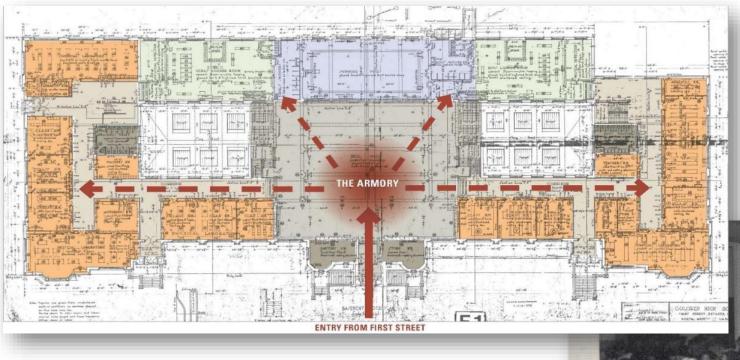








ARMORY AS "HEART OF THE SCHOOL"





1977 REPLACEMENT BUILDING

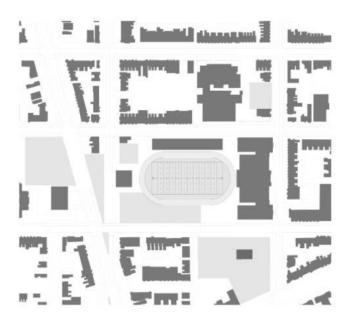


EVOLVING URBAN DESIGN APPROACH



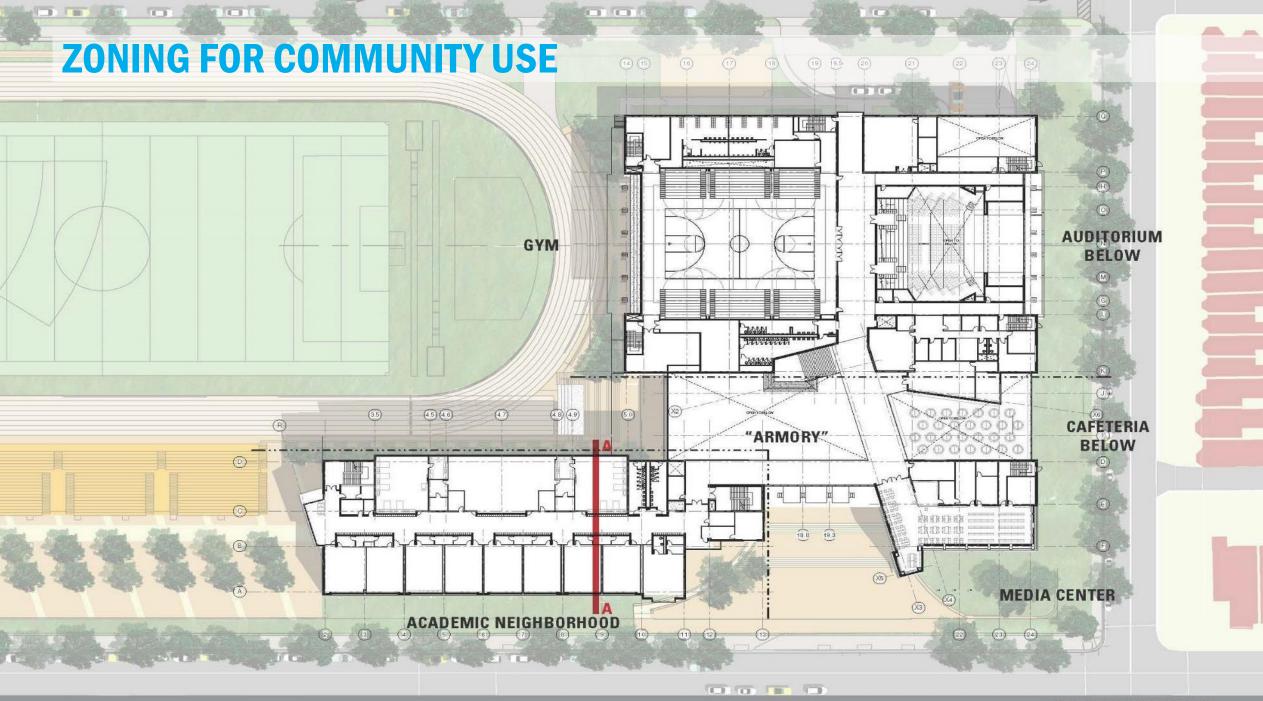










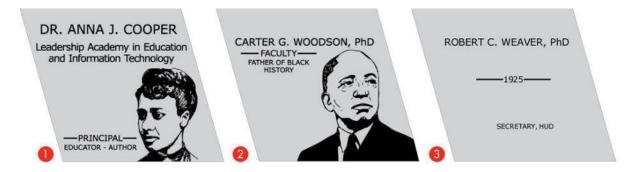


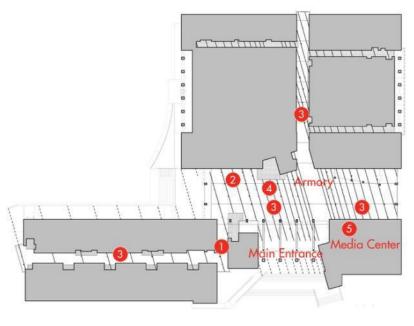




SETTING HIGH EXPECTATIONS FOR SUCCESS



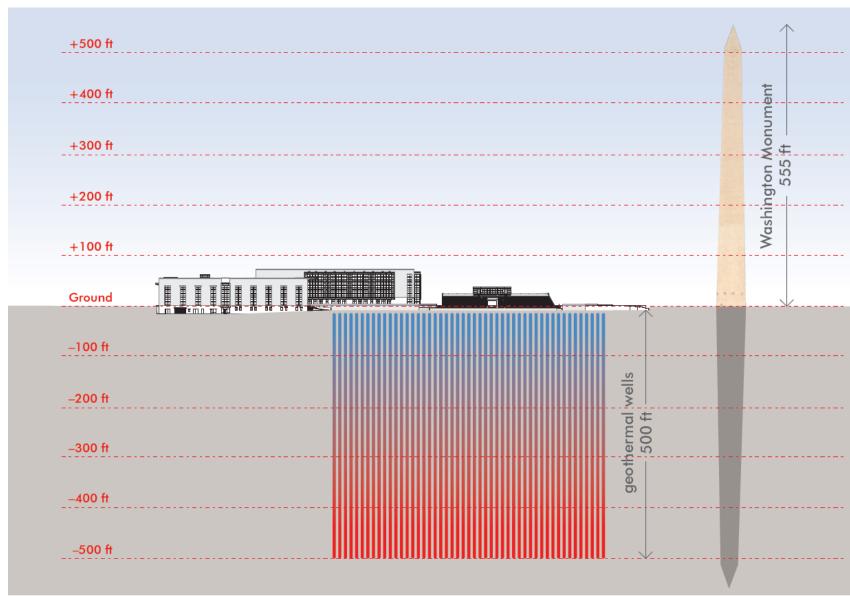




TELLING THE SUSTAINABILITY STORY



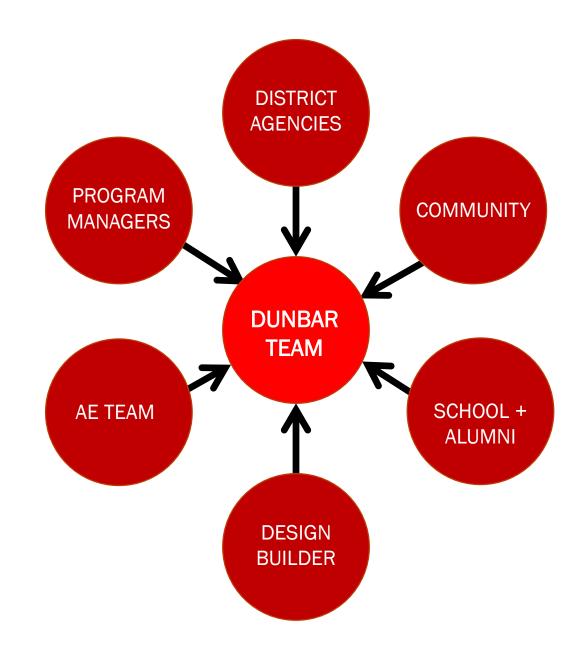




IT TAKES A VILLAGE

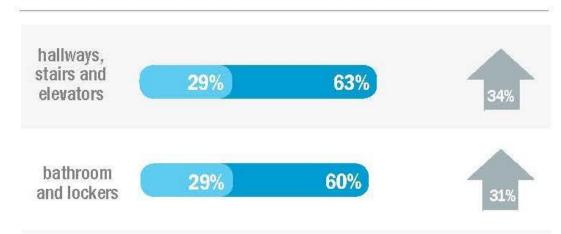




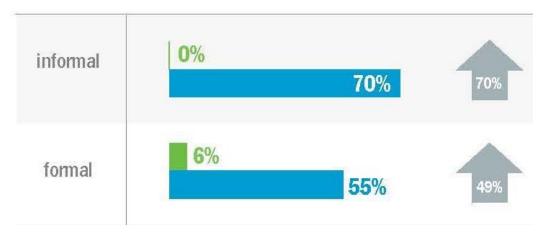


MEASURING PROJECT SUCCESS

SENSE OF SAFETY: WELL FOSTERED BY THE SCHOOL



STUDENTS' SENSE OF COMMUNITY: WELL FOSTERED BY





91 Credits, LEED Platinum

The highest scoring new school in the world

"A masterpiece of a green learning environment..." - USGBC Center for Green Schools

DUNBAR ACHIEVEMENTS

GRADUATION RATES



ENROLLMENT RATES



TEST SCORES







Leadership & strategy



- Reopened O Street to spur local development and improve neighborhood connectivity and safety
- Engaged alumni community in school planning and design, and invited them to milestone events

Economy & society



- Recognized illustrious African-American alumni and created aspirational school environment
- Hired local workers and artists to work on the building

Health & wellbeing



 Worked with multiple agencies to design joint-use library, health clinic, pool & gym

Infrastructure & environment



- Solar power purchase agreement
- Stormwater BMP in public space (O Street)
- Raising the bar for DC public buidlings—LEED Platinums

NOW IT'S YOUR TURN...





Leadership & strategy



Fosters long-term & integrated planning Empowers a broad range of stakeholders Grows future generations of leaders

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Promotes equality and social justice
Builds community

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