George Washington Carver Center for Arts and Technology
Baltimore County Public Schools

GRIMM + PARKER
ARCHITECTS

GEORGE WASHINGTON CARVER CENTER FOR ARTS AND TECHNOLOGY

Baltimore County Public Schools

December 2, 2008

SCHEMATIC NARRATIVE

INTRODUCTION

The existing George Washington Carver Center for Arts and Technology is considered to be one of the finest arts and technology magnet schools in the country. The school is known for its unique curriculum, consisting of a rigorous academic program providing a range of advanced placement opportunities, as well as the (10) specialty areas or 'primes', which include acting, business, carpentry, cosmetology, culinary arts, dance, literary arts, technical theatre, vocal music and visual arts. It is the mission of Carver to provide a '*supportive community for students and to prepare them for college and career choices by immersing them in rigorous programs which are implemented through the interrelationship of arts, technology, academics and field learning experiences'*.

GUIDING DESIGN PRINCIPLES

- Construction of the new school occurs in proximity to the existing building while the current program continues to function
- Create inspiring and engaging interdisciplinary organization
- The building organization and form encourages interaction between academics and the exciting prime areas of study
- Environmentally sustainable design – Building orientation maximizes north / south natural daylighting
- Create a unique, inspiring and energetic atmosphere expressive of the interactive, 'hands on' educational philosophy

SITE DESIGN

- Maintain function of the existing building during construction – Phased site development
- Create an inviting building entrance sequence expressing the educational programs inside and out
- Extend the educational programs out into the environment and site
- Locate the new school to maximize north / south classroom orientation
- Address vehicular circulation through the site from York Road
- Create separation of buses, cars and pedestrians while allowing all to arrive at the main entrance
- Locate class and multi-purpose fields close to the gym
- Provide screening for the multiple service areas of the programs

BUILDING DESIGN

- The design reflects the large number of program areas that are required to be located on the first floor while creating an efficient (3) story academic wing above that maximizes daylighting opportunities for the classroom areas and public spaces.
- The plan is designed and organized to maximize the interaction between the multiple prime programs and academics through the creation of a main circulation path and a dramatic central space, where the displays and activities representing all of the school programs can be experienced by students and visitors.
- The engaging 'central space' is bordered by the 1,000 seat Theatre, the Black Box Theatre, Gallery space and the Culinary Arts program and Café.
- Circulation and display occur throughout the entire building to showcase *all* programs.
- The main entrance is overseen by Administration.
- Separate entrance lobbies allow for multiple functions without opening the entire building.

SUSTAINABLE DESIGN

Options for Green Building Systems

- Building Systems
  - Energy efficiency that exceeds industry standards by means of high efficiency equipment, high insulation thermal values, high shading coefficient glazing, solar shading devices and energy recovery features for both exhausted air and waste water.
  - Low emitting materials
  - Daylighting
  - Acoustical performance
  - SRI compliant roofing systems that reduce urban heat island effect - High reflectivity membranes and vegetated roofing
- Mechanical / Electrical systems
  - Energy efficient systems
  - Energy recovery
  - Maximize indoor air quality
  - Water efficiency that exceeds industry standards by use of waterless urinals, dual flush toilets and low flow fixtures
  - Zoned lighting
  - Occupancy sensors controlling lighting, heating and cooling
  - Commissioning
- Construction Techniques
  - Pollution prevention
  - SWM control - Significant reductions in storm water quantity and increase of storm water quality by filtering.
  - Construction waste management

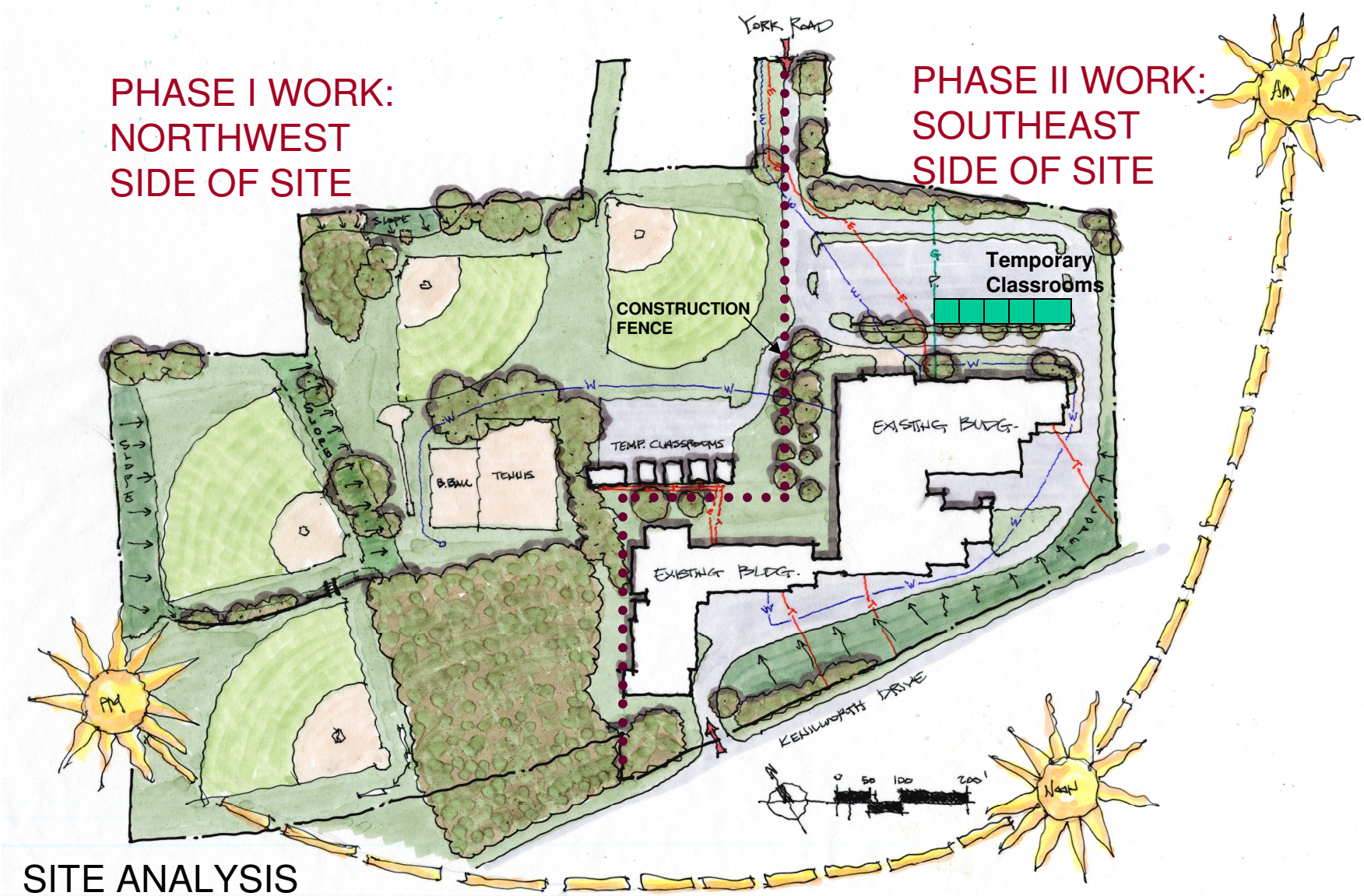
SUSTAINABLE DESIGN continued

- Specification of high recycled content construction materials
- Specification of locally manufactured materials
- IAQ construction plan - Improved air quality through careful specification of materials and construction procedures

SCHEDULE / BUDGET

- Building area: **219,900 g.s.f.**
- Student capacity: **1,000**
- Estimated budget:
  - New Construction – Building / Site **$55,194,900** (219,900 sf @ $251/ft)
  - Hazmat Abatement / Demolition **$ 850,000** (170,000 sf @ $5/ft)
- Project schedule:
  - Bidding for sitework and utility packages occurs in April / May 2009
  - Construction starts with utility relocation and site package in summer of 2009
  - Bidding for building packages occurs in October / November 2009
  - Building construction starts February 2010 – Completes March 2012 – School moves spring break 2012
  - Hazmat abatement / Building demolition / Balance of sitework starts April 2012 – Completes November 2012

George Washington Carver Center for Arts and Technology



SITE ANALYSIS

George Washington Carver Center for Arts and Technology

Site Plan

George Washington Carver Center for Arts and Technology

The Baltimore County Public Schools

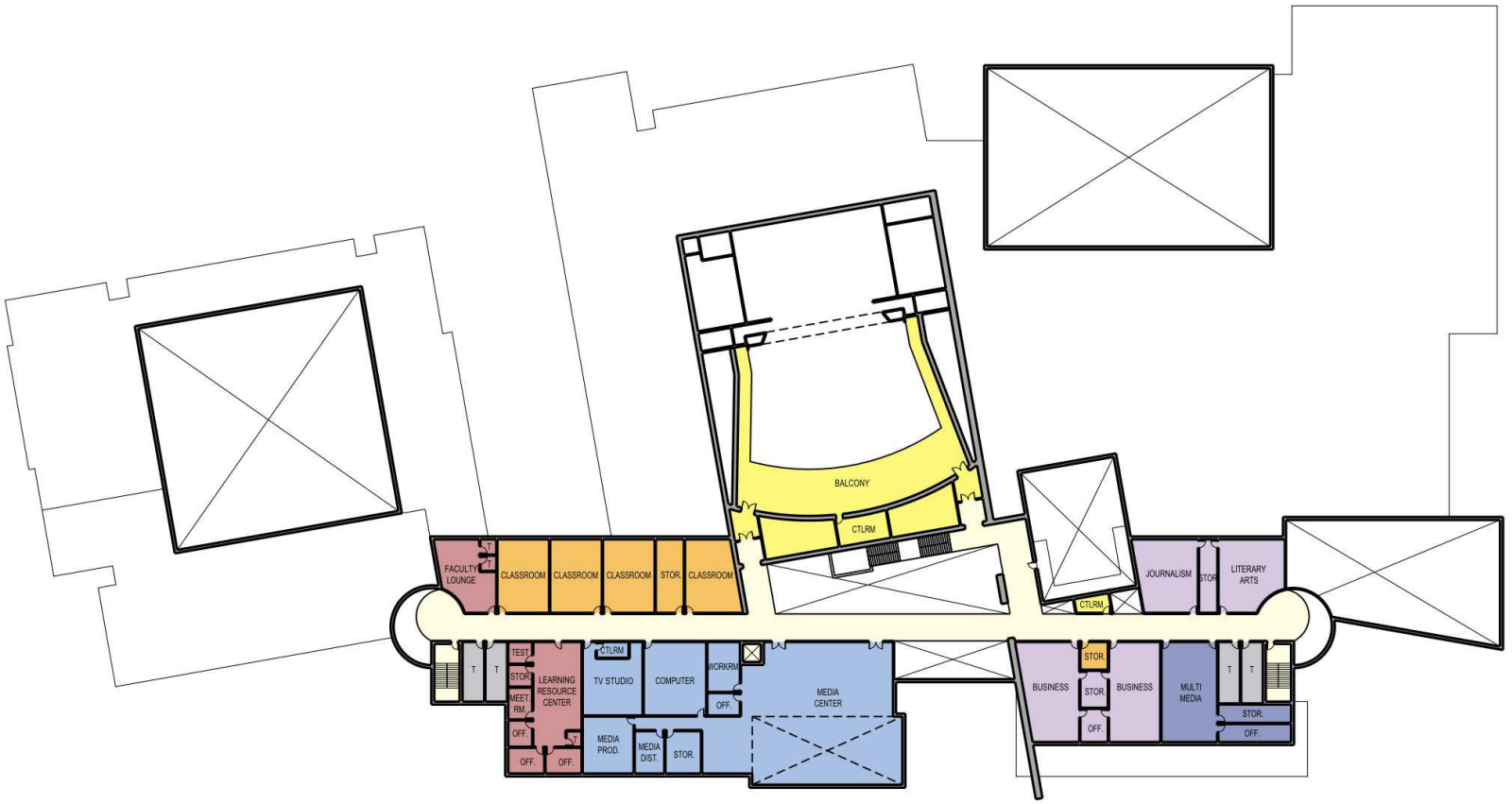
Carver Center for arts and Technology

Schematic Design Briefing for Dr. Joe A. Hairston

December 2, 2008

GRIMM + PARKER ARCHITECTS

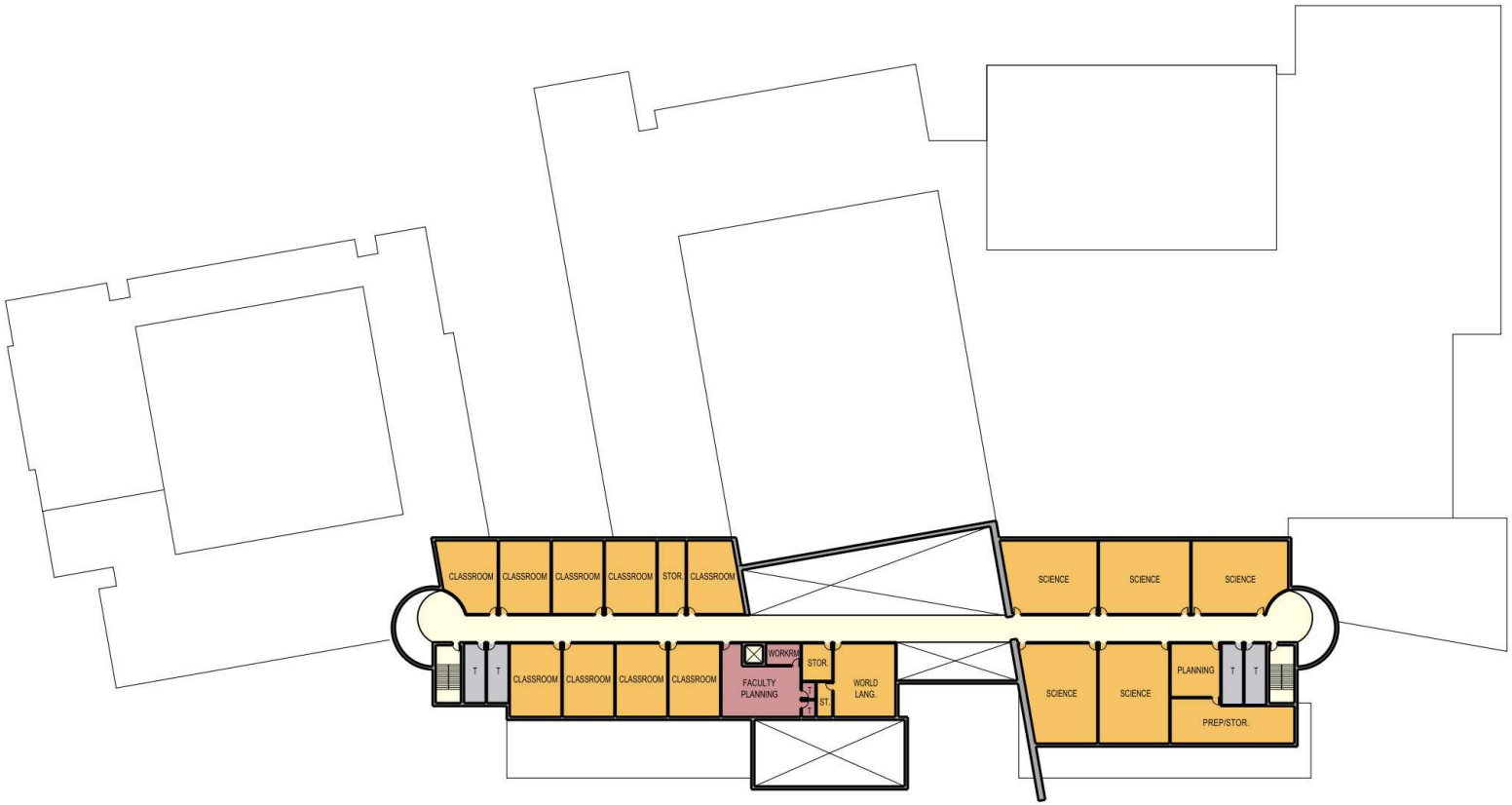
George Washington Carver Center for Arts and Technology



N

Second Floor Plan

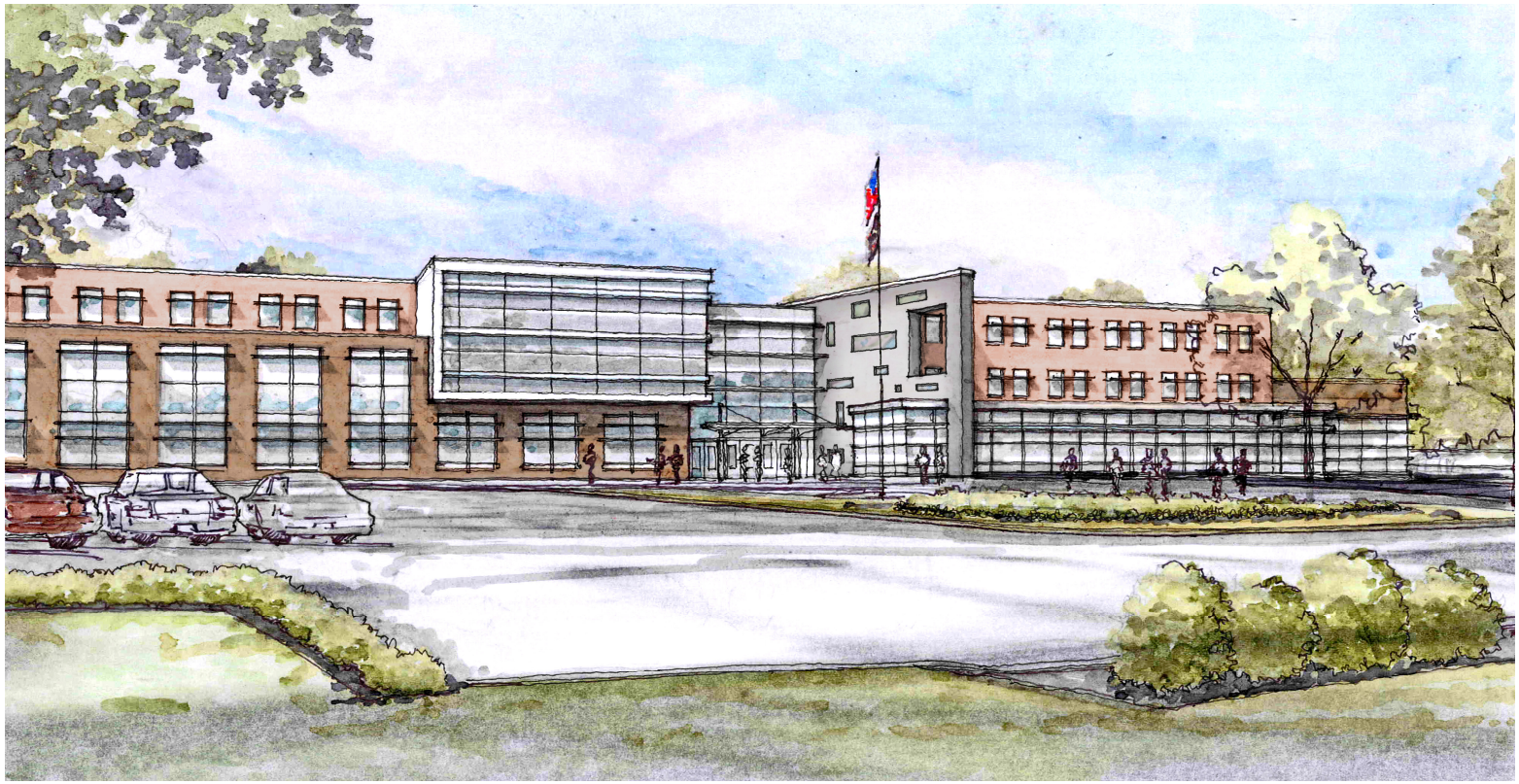
George Washington Carver Center for Arts and Technology

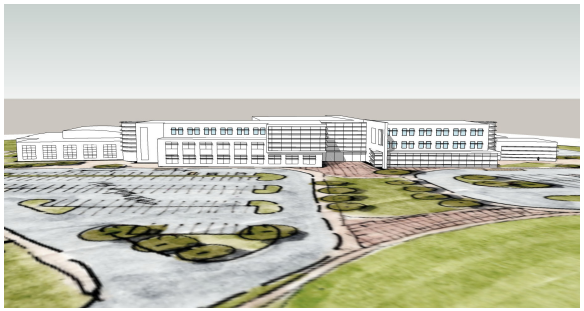


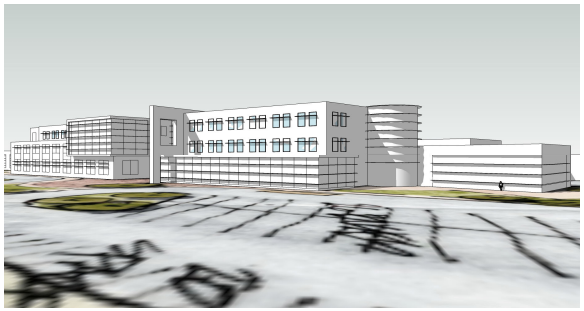
N

Third Floor Plan

George Washington Carver Center for Arts and Technology







The Baltimore County Public Schools

Carver Center for arts and Technology

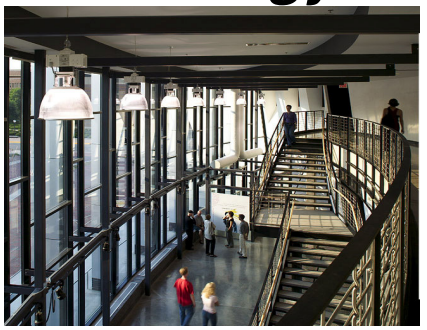
Schematic Design Briefing for Dr. Joe A. Hairston

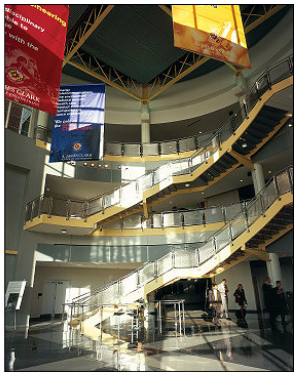
December 2, 2008

GRIMM + PARKER ARCHITECTS

George Washington Carver Center for Arts and Technology

Central Space





The Baltimore County Public Schools

Carver Center for arts and Technology

Schematic Design Briefing for Dr. Joe A. Hairston

December 2, 2008

GRIMM + PARKER ARCHITECTS