

College of Charleston New Science Center

WINNER: ABC CAROLINAS EAGLE AWARD FOR EXCELLENCE IN CONSTRUCTION

Type of Construction:	New, Higher Education
Size of Project:	125,000 sf
Contract Value:	\$10,053,123.00
Length of Project:	26 Months
Percentage of Labor Self Performed:	85%

The College of Charleston Center for Sciences and Mathematics houses classroom and teaching laboratories for Biology, Chemistry and Biochemistry; GIS Remote Sensing Labs and the Lowcountry Hazards Center; SC Space Grants offices and NASA Lunar Outreach & Education Office; a Natural History Museum; a Greenhouse; and administrative offices.

The \$58,000,000 project was the largest construction project ever undertaken by the College of Charleston.

W. B. Guimarin & Co., Inc. was selected to perform the HVAC and Plumbing scopes of work. A state of the art research facility, the Science Center required many unique systems to be installed; listed below are samples of these systems:

Plumbing Systems:

- Rain Water Conductors
- Sanitary/Vent
- Laboratory Sanitary/Vent
- Domestic Cold Water
- Domestic Hot Water/Return
- Tempered Water
- Laboratory Cold Water
- Laboratory Hot Water/Return
- Reverse Osmosis Water
- Compressed Air
- High Pressure Compressed Air
- Cylinder Supplied Compressed Air
- LP Natural Gas
- Nitrous Oxide/Argon
- Nitrous Oxide
- Hydrogen
- Helium
- Nitrogen

HVAC Systems:

- Four (4) 110-ton Custom Air Handling Units with 100% Outside Air
- Six (6) 34,000 cfm Strobic Lab Exhaust Fans
- Eight (8) 13,750 cfm Smoke Control Exhaust Fans
- 140 Phoenix Valves
- Piping Systems:
 - Chill Water Supply/Return
 - High Pressure Steam
 - Pumped Steam Condensate
 - Medium Pressure Steam
 - Medium Pressure Condensate
 - Heating Hot Water Supply/Return
- Connection to College of Charleston's existing energy plant
- Sheet metal ductwork, fabricated in our shop in Columbia

