

**The College of William and Mary  
Lodge 1 – University Center  
Entrance Modifications and Student Terrace  
Williamsburg, Virginia**

McKinney and Company provided engineering and architectural services to the College of William and Mary for Entrance Improvements and a New Student Terrace for Lodge 1 at the University Center.



The project created a pedestrian plaza at the former intersection of two side streets. The streets were closed to vehicular traffic, but mountable curbing was used as a border, making the area accessible to emergency vehicles.

The Terrace was a part of a gift by the Graduating Class of 1993, and included 9,000 S.F. of brick pavers, handicap access on all sides, and a new canopy and storefront entrance enclosure to the student lounge. A new curved brick wall provides a back drop and electrical access for sound equipment for outdoor student activities throughout the year.



Tables, chairs, and umbrellas arranged around the Terrace provide a relaxing environment for students to gather to study or socialize.

## The College of William and Mary's Lake Matoaka Dam Williamsburg, Virginia

Lake Matoaka is an impoundment of approximately 46 surface acres adjacent to the College of William and Mary in Williamsburg, Virginia, and is owned by the college. The dam is approximately 300 feet in length with a 52-foot width four-lane road running across it. Due to changes in the state legislation, Lake Matoaka Dam became one of several impoundments to come under state regulation on July 1, 2002. With the new regulations the College of William and Mary retained McKinney and Company to perform the required assessment of Lake Matoaka Dam so that the college could obtain an operations and maintenance certificate from the Virginia Soil and Water Conservation Board.



McKinney and Company was hired by the College of William and Mary to compile information on the construction and existing condition of the dam and to prepare necessary documentation to meet the requirements of the Commonwealth of Virginia Dam Safety Program under the Dam Safety Act and Dam Safety Regulations established by the Virginia Soil and Water Conservation Board. The initial inspection and hazard classification included a structural inspection of the embankment and outfall structure, and soil borings and monitoring wells to determine the ground water characteristics. This was complemented with a hydraulics study of the weir, culvert, and downstream receiving channel and a hydrology study of the near 1500-acre drainage shed, which entailed the modeling of the September 1999 Hurricane Floyd rainfall that caused widespread flooding, and the failure of several dams in the area.

After completing the Lake Matoaka dam study, the engineers focused on creating an operations and maintenance plan with proposed schedules for corrections and an Emergency Action Plan which summarize the necessary actions required in the event of a future flood warning.

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