



**WAKE COUNTY BOARD OF EDUCATION**  
**Work Session**

**PRECIS**

**SUBJECT/TOPIC**

GEOTHERMAL HVAC: RICHLAND CREEK ELEMENTARY

**DEPARTMENT, BOARD/STAFF LIAISON(S), AND ANY PRESENTERS FROM  
OUTSIDE THE DISTRICT**

Joe Desormeaux

**BACKGROUND**

An RFP was issued in February 2012 to provide a geothermal HVAC system for Richland Creek Elementary and West Apex High using a third party provider with access to tax credits unavailable to the school system. One submittal was received and ultimately it was determined geothermal only saved money at the elementary school. This first attempt at this new approach has been complicated and time consuming. Unfortunately the project schedule had insufficient time to resolve all the unique third part contract arrangements. There is still time to include geothermal in the project schedule if the system is installed as part of the existing Construction Manager contract. This information was provided to the Facilities Committee on October 10, 2012 and they referred it to the Board work session. See the attached detailed recommendation and financial information.

**FISCAL IMPLICATIONS**

The installation of a geothermal system will increase the upfront cost of the project by \$350,000. The additional funding would come from the savings generated from selecting an onsite solution for the Panther Creek 9<sup>th</sup> Grade Center.

**SAVINGS**

Approximately \$262,000 over 30 years.

**NEXT STEPS / RECOMMENDATIONS**

The additional funding would be requested along with the construction funds at the end of design for this project.

