



From the Desk of: *Michal Shepard – Director of Maintenance, Energy and Engineering*  
**December 23, 2020**

## **Energy Management Plan**

**RE: Harris Teeter #223 Renovation / Expansion Chapel Hill, NC**

**Harris Teeter is committed to reducing our overall carbon footprint of this facility and its expansion by utilizing state of the art technology in every aspect of the remodel plan. We will employ technology to reduce existing electricity and gas usage extensively. Below are technologies that we will install to accomplish this task**

- **Convert all existing legacy lighting within the existing space to Energy Efficient LED fixtures with dimming and occupancy control technology.**
  - **Upgrade all refrigerated cases to energy efficient models, including glass doors for most medium temperature applications.**
  - **Upgrade all direct digital control systems for Refrigeration, HVAC and Lighting.**
  - **Replace all existing HVAC units with high efficiency models.**
  - **Upgrade Heat Reclamation system to maximize waste heat from the refrigeration systems for hot water and space heating.**
  - **Replace Roof and add additional insulation to improve the overall building envelope. New roofing material will be reflective White TPO material.**
  - **Employ CO sensing and control technology to support indoor air quality and the amount of outside air needed to maintain good indoor air quality through demand ventilation strategies.**
  - **Install Low E glazing systems to allow natural lighting into the space and reduce overall cooling and heating load on the building. This will also allow for utilization of dimming strategies where applicable.**
  - **Install state of the art LED lighting in the parking field and all exterior lighting.**
  - **Calculate maximum roof space that is available for onsite solar and purchase equivalent green energy credits to offset any energy that would be generated by an onsite solar system.**
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