



TECHNOLOGY BOND PROJECT OVERVIEW

It is the goal of the Greater Albany Technology Department self-performed bond projects to further improve the safety and security of our schools by bringing each campus up to a standard for access control to the facility and providing a consistent and functional platform for surveillance through the use of bond dollars. The three major project areas are High Schools, Middle Schools and Elementary Schools. Within these three major areas there are the following four primary project scopes: Network, Infrastructure, Security and Surveillance. In addition, an end-of-life and failing phone system was replaced at six district campuses with a Voice Over IP [VOIP] system which is scalable to include additional campus as other phone systems become antiquated or fail. The following are the scopes of the work being performed across district campuses.

VOIP:

The purpose of installing the VOIP phone system was to replace the failing NEC UniVerge phone system that was end-of-life and unsupported by the manufacturer. The new ShoreTel system was deployed at West Albany, South Albany, Timber Ridge, Albany Options, Grand Prairie and the District Office. Additionally, this system will be installed at the new Oak Grove and Meadow Ridge campuses. This system allows phones to use standard network cabling and features will include the ability to interface with the building's intercom and access control system to initiate a Lockdown, Lock-out, or Shelter in Place. Phones will also be able to interface with the access control system to remotely unlock a secure door.

Network and Infrastructure:

These projects are to support the connectivity of added equipment throughout district campuses. In some locations the network equipment either wasn't capable of supporting Power-over-Ether [PoE] devices, the capacity to support the number of PoE devices or was not capable of communicating with the types of equipment being installed. New infrastructure cabling has to be installed at all locations to support additional equipment being installed.

IP Camera:

Provide consistent security camera coverage and functionality at all campuses. The coverage areas will include all interior hallways, gyms, cafeterias, main offices, exterior walls, and all exterior access doors. A door phone camera is placed at the front door to be viewable from the front office in conjunction with the access control system allowing staff to view doors before remotely unlocking them. Every interior hallway will have a 360-degree camera and all exterior wall camera placement will ensure there is no more than a 50' view distance from the nearest camera. This system will retain at least 30 days of video footage.

Security:

This project will improve our existing Access Control system by providing a flexible, rapidly-adaptable exterior door control solution that is centrally controlled and scalable. Door controls will use industry-standard proximity badges and have the ability to grant scheduled access. An additional feature will be the ability to press one button in the main office to immediately lock all access-control doors and secure the building. Exterior access doors will be classified as either a "Visitor Door" or "Staff Door". "Visitor Doors" will have a dedicated IP camera, card reader, doorbell/intercom box, and electric door lock. "Staff Doors" will have a card reader, electric door lock, and will be viewable from a nearby IP camera.