Wiring requirements for online access doors (typical) at Bloomsburg University. Assumes ADT is a Proprietary Vendor.

1. Responsibility for proper installation and functionality of the online access system is assigned to the successful General Contractor to a project. Richard Ogurcak (ADT) is the main contact for coordination and integration into the online access system at Bloomsburg University. ADT configured and installed the current online access system. ADT can provide configuration requirements from A/C power source, through all aspects of the system, to door hardware. Typical system schematics are available from Jim McCormack jmccorma@bloomu.edu based upon the type of online access control system being installed. ADT does not install A/C power or door hardware, but can sub-contract the service through the successful bidder. All future additions and changes to the online access system, to include all hardware, must integrate seamlessly with the existing system. The University will only operate and maintain the existing online access system. No alternate or supplemental online access system will be accepted. The successful bidder is responsible for facilitating communication, coordination and project management with all associated parties related to the online access system portion of the project culminating in a fully functional and integrated system upon substantial completion.

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2. A/C power for equipment that will be used by the online access system must be on its own dedicated (115V/20A) circuit. Typically, all components of the online access system, with the exception of door hardware, are located in the closest communications closet on the floor that has the highest density of doors receiving online access. Accommodations for the wall mounting of power supplies (lock and miscellaneous equipment) must be made inside the communications closet. 4' x 8' is generally sufficient for the mounting of equipment. All power supplies shall be tied into the building's emergency backup power (preferred) or battery backup. All A/C wiring shall be 12/2 with ground. All D/C (low voltage) wiring for non-automatic opener doors shall be shielded and run with a combination of: 2ea 18/6, 1ea 22/4, 1 ea 16/2 and 1ea 18/4 (ROHS compliant composite cabling is preferred, PAIGE 454932AYW card access composite cable provides most of the required wires in one bundle). Doors with automatic openers shall have the same wiring configuration as non-automatic opener doors with an additional 12/2c FPLR cable. All wiring must comply with the standard wiring specifications for the project. Verification of the location and proper mounting of online access equipment shall be completed prior to installation of any circuitry or online access equipment. The successful Electrical Contractor is responsible for running and terminating all A/C power required to operate the online access system. The EC shall also run a dedicated ¾" inside diameter metal conduit, with pull strings, and four sets of low voltage wiring described above, from the micro location to each door that is scheduled to be placed online, regardless of the location and type of online access hardware specified, to accommodate all low voltage wires. The EC shall terminate the four sets of low voltage wiring to a junction box mounted at a designated spot by the University with enough wire to run from the "J" box to the base of the access controlled door. The EC shall conceal all wires around each doorway from public view via wiremold or behind viewable surfaces.

3. Electrified Von Duprin crash bar hardware (RXEL99NL, US32D finish or equivalent) is specified for all areas using solenoids to retract door catches. Typical application is on exterior double doors. Any substitution of the specification must be 100% compatible with the existing online access system and must be approved in writing by the BU Card Center through the University's Planning and Construction Office. Wiring from the solenoid power supply(ies) that are located in the same communications closet

as the ADT Micro 5 controller shall not exceed 100 lineal ft. to the door unless hardware manufacturer specification are engineered for longer circuit lengths. In those instances, the lineal distance may not exceed 75% of the hardware manufacturer's maximum specified circuit length. In instances where the distance between the micro and the online door exceeds 100 lineal ft. or 75% of the manufacturer's specification, the retracting device power supply(ies), with associated 12/2 wiring, shall be mounted above the doorway to be integrated into the online access system. ADA compliance hardware and emergency signage may not tie into the circuitry dedicated to the online access system.

4. Wherever feasible, an electric strike is preferred to operate online access doors, negating the need for solenoids, solenoid power supplies and/or retracting door hardware. Von Duprin and Hes electric strikes are specified for applications meeting these criteria. Typical application is on exterior and interior single doors. Any substitution of the specification must be 100% compatible with the existing online access system and must be approved in writing by the BU Card Center through the University's Planning and Construction Office. Application of electronic strikes must operate using 24V from an ADT micro power supply.

5. On areas that specify online access and ADA hardware, the successful bidder must establish full ADA hardware operation/function two weeks prior to substantial completion. Proper, independent ADA opener function must be established prior to integrating the door into the online access system.

6. Successful bidder must obtain system configuration approval by BU Card Center prior to beginning any work on the online access system.