

Chronology: Network Cabling, Interior Fiber Infrastructure and Wireless (ICN) New Sequoyah HS/MS & Cross Keys High School

The Division of Information and Instructional Technology (DIIT) identified the need for comprehensive network infrastructure and connectivity services to support the opening of New Sequoyah High School, New Sequoyah Middle School, and New Cross Keys High School. These needs were validated through planning activities associated with new school construction, district network standards, and coordination with construction and instructional technology teams.

Following the planning phase, DIIT worked with Integrated Communication Networks, Inc. (ICN) to develop a scope of services focused on establishing the core network foundation required for instructional, administrative, safety, and operational systems across both campuses. The proposed work includes structured cabling systems, telecommunications room buildouts, fiber backbone connectivity, and associated labor services, all coordinated with construction milestones to ensure network readiness prior to school opening.

Key Services Include:

Structured Cabling Systems, Interior Fiber Connectivity & Wireless = \$2,121,925.44

ICN will provide Category 6A structured cabling and fiber backbone infrastructure to support all instructional, administrative, safety, and operational spaces across both facilities, including:

- Installation of district-standard Category 6A cabling to support classroom technology, wireless access points, VoIP telephony, security cameras, and administrative systems across both campuses
- Buildout and full outfitting of two Main Distribution Frame (MDF) telecommunications rooms and nineteen Intermediate Distribution Frame (IDF) telecommunications rooms, including equipment cabinets, environmental support components, ladder rack systems, runway supports, and pathway infrastructure
- Deployment of high-capacity fiber backbone infrastructure between MDF and IDF locations to ensure scalable, high-speed connectivity throughout both campuses and to support portable classroom connectivity at the Cross Keys campus
- Installation of wireless infrastructure across both campuses, including 281 Aruba wireless access points with mounting hardware and centralized wireless management licensing, to provide comprehensive wireless coverage for instructional and operational use
- Installation of patch panels, fiber shelves, modules, connectors, and structured cable management systems to ensure organized, secure, and maintainable network pathways
- Comprehensive termination, labeling, testing, certification, and documentation of all copper and fiber systems to meet district performance standards and industry compliance requirements

These services establish the resilient wired and wireless network backbone required to support instructional technology, administrative operations, security systems, and digital learning environments across the new school facilities.

Labor = \$86,772.40

Labor services associated with this installation include:

- Installation, configuration, and physical deployment of structured cabling and fiber infrastructure across both campuses
 - Buildout, preparation, and equipment staging within MDF and IDF telecommunications rooms
 - Termination, performance testing, system validation, and certification of copper and fiber network systems
 - Coordination with general contractors, construction teams, and district technology staff to ensure adherence to district standards, safety requirements, and construction timelines
- Installation and configuration of structured cabling and fiber infrastructure across both campuses
- Buildout and preparation of MDF and IDF telecommunications rooms
 - Termination, testing, and certification of copper and fiber network systems
 - Coordination with construction partners to ensure compliance with district standards and project timelines

Contingency = \$331,304.68

A contingency amount of 15% above quoted costs is included to manage unforeseen conditions associated with network installation in a new construction environment and to ensure timely project completion.

Procurement:

In accordance with Board of Education Purchasing Policy DJE III.C.3., Purchases or contracts with a total estimated cost of \$100,000.00 or more shall be awarded through a written competitive sealed bid process to the lowest responsible, responsive bidder, or through a competitive request for proposal process where the offer deemed to be the most advantageous to the District may be selected. The competitive solicitation for RFP 26-703 was conducted in accordance with DeKalb County School District procurement policies.

Financial Impact:

Category	Description	Cost
Structured Cabling Systems, Fiber Connectivity & Wireless	Category 6A structured cabling, MDF/IDF buildouts, fiber backbone deployment, termination, testing, and certification	\$2,121,925.44
Labor	Installation, configuration, telecommunications room preparation, system testing, and project coordination	\$86,772.40
Contingency	Additional 15% above quoted amount for unforeseen conditions	\$331,304.68
TOTAL		\$2,540,002.52