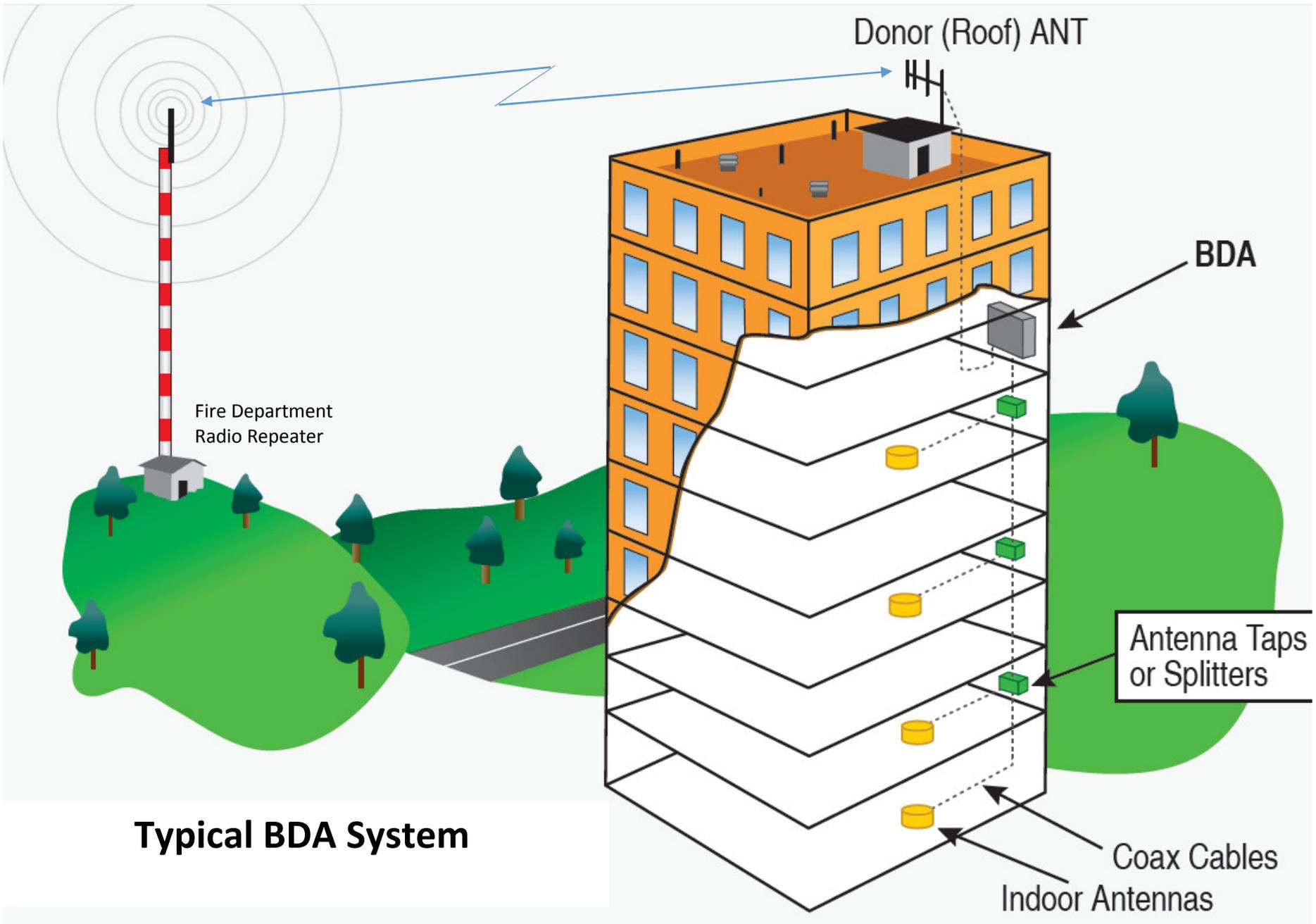


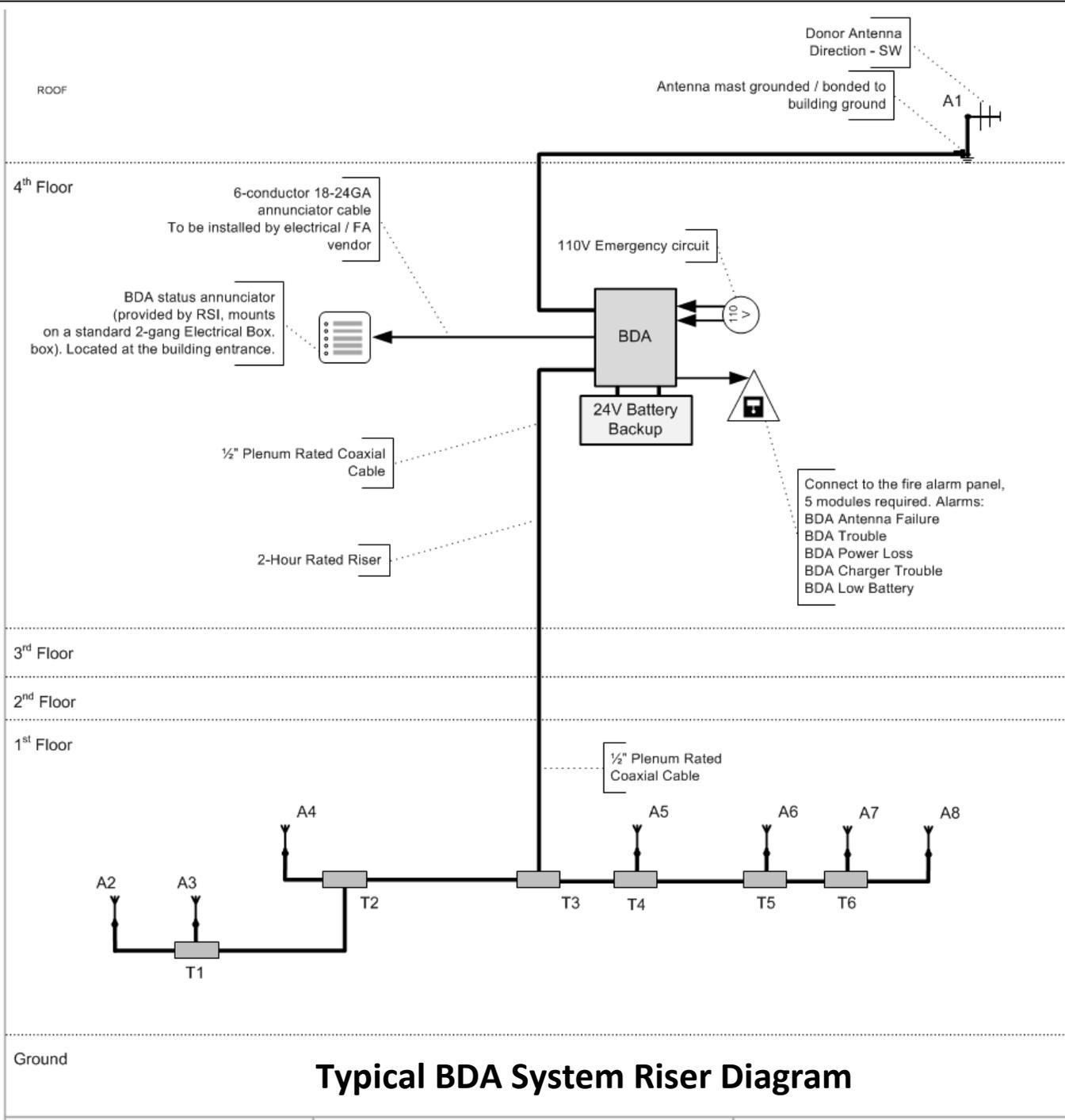
# **BDA Systems for Public Safety Applications**

*IBC/IFC/NFPA-72 Compliant*

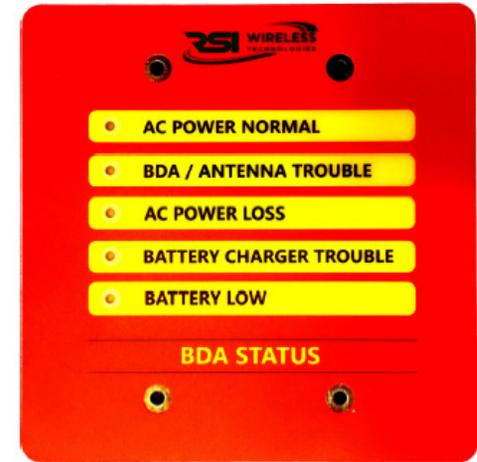




**Typical BDA System**



**Typical BDA System Riser Diagram**



**Components of a Typical BDA System**

## Typical Procurement and Installation Process for BDA Systems

1. A **request for proposal** along with building floor plans and specifications are submitted to Fire Command Systems (FCS) or Radio Solutions, Inc. (RSI). Architectural and Electrical or FA plans are typically required.
2. RSI reviews the documents and verifies the **requirements with the AHJ** which also provides information on frequencies, radio site locations and any other jurisdiction-specific requirements.
3. RSI completes **preliminary system design** for the cost estimating purposes and RSI or FCS submit the proposal to the purchaser.
4. Upon acceptance of the proposal, we send the **technical specifications submittal package** to the purchaser for review by the architect and the electrical engineer.
5. Once the building is substantially complete (all walls, roof, windows are in place) RSI performs the **initial survey** to determine signal coverage requirements and optimal antenna and cable locations.
6. Based on the initial survey, RSI **designs the system** and provides system design documents which include a BDA riser diagram and floor plans that show antenna and signal booster locations as well as cable layouts.
7. BDA **permit application** is submitted to AHJ as / if required.
8. **Cable and other equipment is delivered** for the electrical contractor to install.
9. RSI technicians will terminate all cables, install antennas and other RF components.

10. Electrical contractor connects the power, FACP modules and the BDA annunciator.
11. RSI's FCC Certified technicians **complete the power-up and testing of the BDA system and perform the full building survey per NFPA72.**
12. RSI completes the as-build documents along with **compliance certification** and other documents that may be required by the AHJ.
13. **Final testing** is scheduled with AHJ. Both the RSI's FCC Certified technician and the electrical contractor are present for the inspection.
14. The AHJ will verify the required radio coverage and functionality of the system.
15. Compliance certification is issued once the system is fully completed and accepted by the AHJ.
16. AHJ who is typically also a FCC frequency licensee registers the BDA with FCC.

BDA Systems Inquiries:



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