



## Emergency Responder Radio Coverage System Standard

### Standard

Richland Municipal Code Title 20  
2018 International Fire Code, Section 510

### Practice

All new construction is required to have radio coverage for emergency responders as per the International Fire Code, Section 510 and the Richland Municipal Code 20.05.025.

Commercial buildings meeting any of the following must be tested for interior radio coverage when the exterior shell is fully complete, or the project is 80% complete, as determined by the Fire Marshal's Office.

- a. Total building area is 50,000 square feet or more
- b. Buildings with one or more basements
- c. Buildings with below grade building levels
- d. Underground buildings
- e. Buildings with five or more stories in height

### Guide

When newly submitted construction building plans are reviewed by the Fire Marshal's Office, and an Emergency Responder Radio Coverage System (ERRCS) is identified as a possible requirement, third-party testing will be conducted when the building reaches 80% completion. Test results will be conducted for Dispatch, Fire 1 and Fire 2 channels. A review of the submitted 20-grid signal strengths for each floor of the building will be reviewed by the City of Richland's Radio Maintenance staff.

The Fire Marshal's Office will use Radio Maintenance's recommendations to determine if an ERRCS system is required. If an ERRCS system is required, a full system set of plans to include manufacturer component information will be submitted to the Fire Marshal's Office. Plans will be reviewed and returned, and the system may then be installed. The system will require final testing to ensure radio coverage as engineered.

More details on ERRCS system requirements can be found by visiting the Richland Fire and Emergency Services' web page, under Fire Marshal > Developer Information.