

**NOVA ELECTRONICS  
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### **Antenna Modification Summary**

The collocation of KJBN will consist of the following non-structural modifications.

There currently exists detuning skirts on the tower which were installed to protect the KAAY directional pattern. As KAAY is no longer operating in the directional mode, the detuning is no longer required and may be repurposed for the broadcasting of KJBN.

There are three skirts attached to the tower. The bottom skirt will be driven with RF from KJBN for broadcasting. This will require just a minor component change in the tuning box to transform from detuning to transmitting. This requires no structural changes. The two upper skirts will require minor detuning to move from 1090khz to 1050khz. This will consist of just adjusting the variable capacitor in each tuning box.

An elevated counterpoise will be installed to satisfy the ground system needed for an AM antenna. This will consist of six wires attached to ground rods at the base of the tower, and suspended on poles, six near the base of the tower and six at the end of each elevated radial. These will be approximately twenty feet above ground. There will be no contact with the tower, everything is ground mounted.

An adjacent ground space of approximately 6' x 12' will be necessary for an equipment shelter. A separate electrical service and meter can be installed here.

This is everything required to collocate KJBN-AM to the tower, there will be no structural changes whatsoever to the tower, merely a readjustment of the tuning networks. This should adequately explain the process of interfacing KJBN into the tower.