

Exhibit 13-B
Section 74.1204
Contour Protection to K223BY

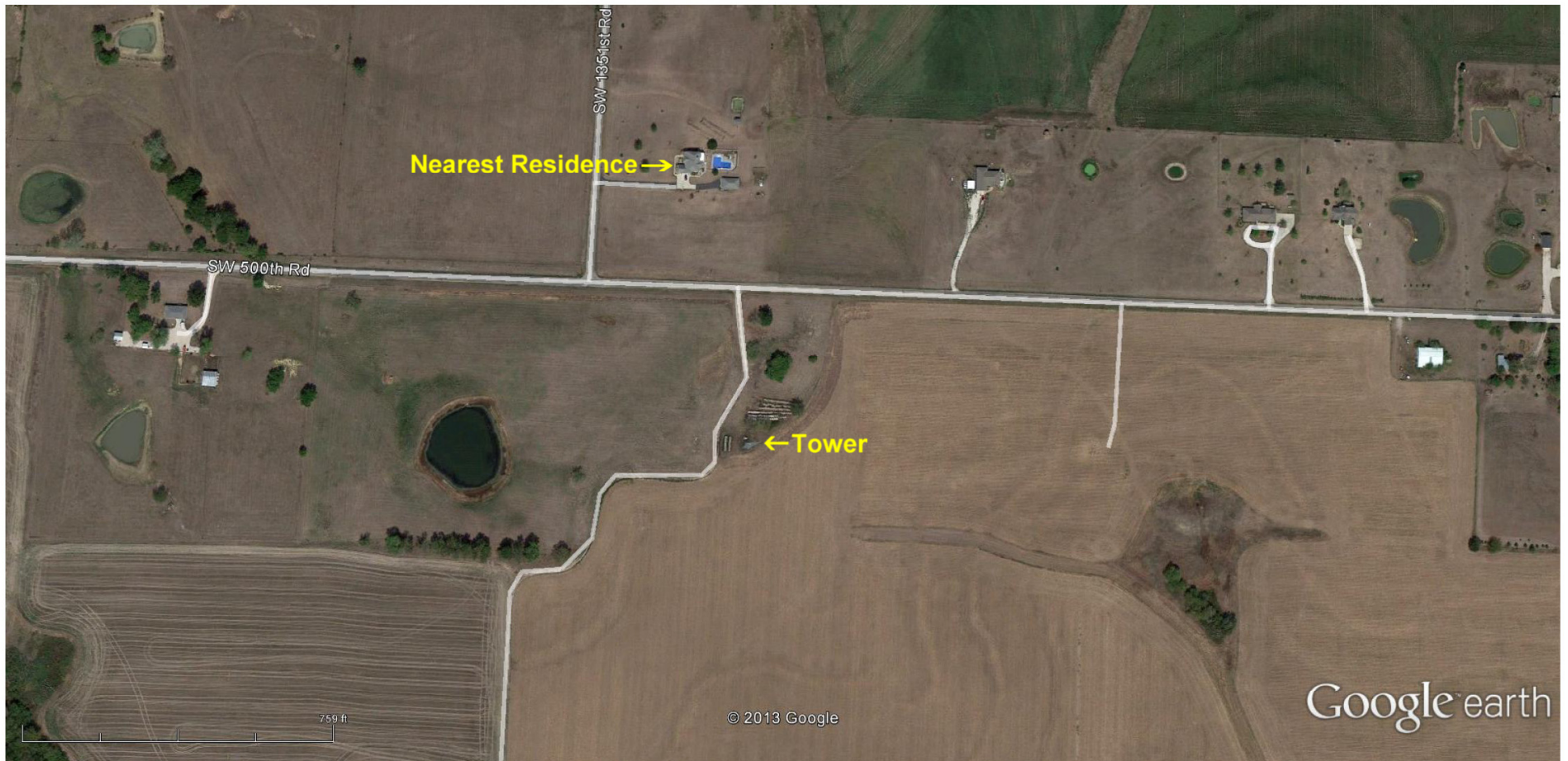
This comprehensive exhibit has been prepared to demonstrate that the K223BY modification will not cause prohibited interference to KMXV, Channel 227C0, Kansas City, MO. The KMXV F(50,50) protected contour at the K223BY application site is 67.34 dBu. Therefore the K223BY F(50,10) interfering contour with respect to KMXV is the 107.34 dBu contour. Using the FCC's FM propagation curves program (see attached), the 107.34 dBu contour was calculated to extend 135 meters from the base of the tower.

Attached are Google Earth screen shots showing the K223BY tower site and the surrounding area. The nearest occupied building is a residence located 214.6 meters NNW of the tower at it's nearest point. Therefore the 135 meter interfering contour does not reach any populated areas.

The attached Google Earth screen shots clearly show there are no occupied buildings within 135 meters of the tower base.

It is believed that the proposed modification to K223BY will not cause prohibited interference to KMXV as no interference reaches the ground where there is population.

Google Earth Screen Shot of K223BY Tower Site Area



Google earth

feet 1000
meters 500



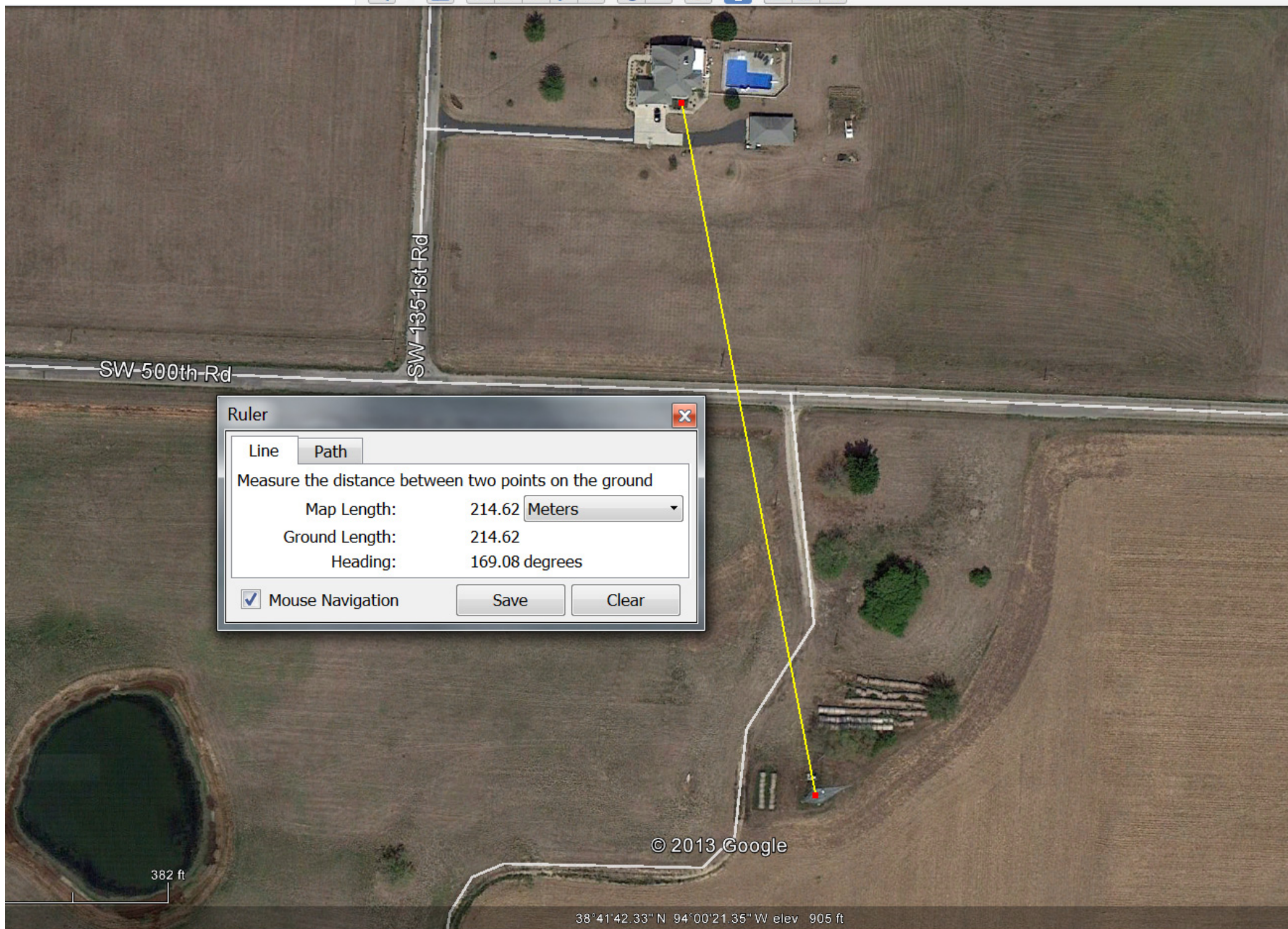
Google Earth Screen Shot - Close-Up of Tower



Google earth

feet 300
meters 90







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FM and TV Propagations Curves Calculations

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Results -- FM and TV Propagation Curves Calculations

Free Space equation used, not curves

Results of Calculation

Distance to Contour = 0.135 km

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For input data from Pages 1 and 2:

ERP entered = 0.020 kW

HAAT entered = 39.50 meters

Field Strength entered = 107.300 dBu

Find the Distance to the Contour, Given a Field Strength

F(50,10) curves for interfering contours

FM and NTSC analog TV Channels 2 through 6

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Comments on this program may be referred to [Dale Bickel](#)

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