

Proposed Coverage Enhancement Site in Thermopolis WY

There are two proposed Coverage Enhancement Sites for Thermopolis. One is at the Court House at 415 Arapahoe in Thermopolis, and the other is a cell site 2 miles WNW of Thermopolis.

Coverage from existing conventional system

Figure 1 shows the coverage from the existing conventional system located at the Cedar Ridge, North West of Thermopolis. This is an estimate of the coverage and makes allowances for in building coverage with the radio worn on the hip.

Coverage from existing WyoLink sites

Figure 2 shows that coverage from existing WyoLink sites surrounding Thermopolis is inadequate. The orange shaded areas show in building coverage from a portable radio worn on the hip using a speaker microphone. The yellow shaded areas show a lack of coverage from a portable radio worn on the hip using a speaker microphone.

Coverage from new WyoLink sites

Figure 3 shows that coverage from the proposed new WyoLink site at an existing cell tower WNW of Thermopolis is excellent. The orange shaded areas show in building coverage from a portable radio worn on the hip using a speaker microphone. The yellow shaded areas show a lack of coverage from a portable radio worn on the hip using a speaker microphone. Figures 4 and 5 show coverage from this site into the Wind River Canyon, ending about 9 miles south of Thermopolis at milepost 122. Given the coverage in town and into the canyon, this would be the preferred site. Finding frequencies for this site could be an issue, as the frequencies currently licensed for the Court House cannot be moved to this location. Unless frequencies could be found for this site, developing it would not be a viable option.

Figure 6 shows that coverage from the proposed new WyoLink site at the Court House at 415 Arapahoe is good. There are some gaps in coverage, and the coverage does not extend into the Wind River Canyon to the extent that the coverage does from the cell tower WNW of town. There are currently frequencies licensed for this site.

Areas projected to lack coverage

For the site near the cell tower 2 miles WNW of Thermopolis, there are a few areas projected to lack in-building coverage from a portable radio worn on the hip using a speaker microphone. The few areas that are predicted to be lacking in coverage would more than likely gain coverage if the radio was removed from the hip and held at face level. This site also provides coverage into the Wind River Canyon to about milepost 122, covering all but 9 miles of the canyon.

Recommendation

Therefore, it is my recommendation that the city of Thermopolis, The PSCC, WyoLink and Motorola proceed with constructing a coverage enhancement site at the existing cell tower west of Thermopolis, WY.

Other sites considered

No other sites were deemed worthy of consideration in Thermopolis.

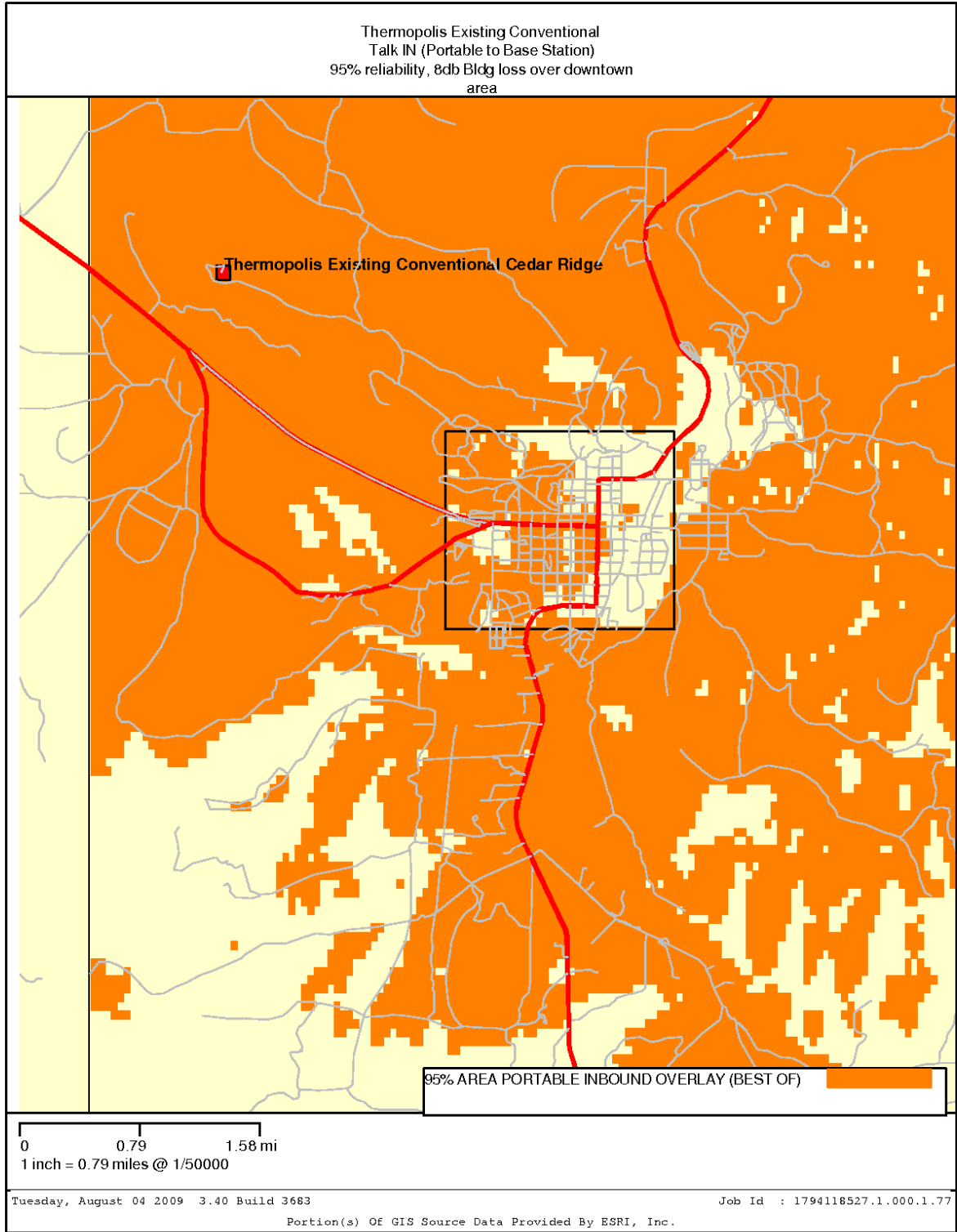


Figure 1: Existing In Building Portable on the Hip Coverage from the Conventional System

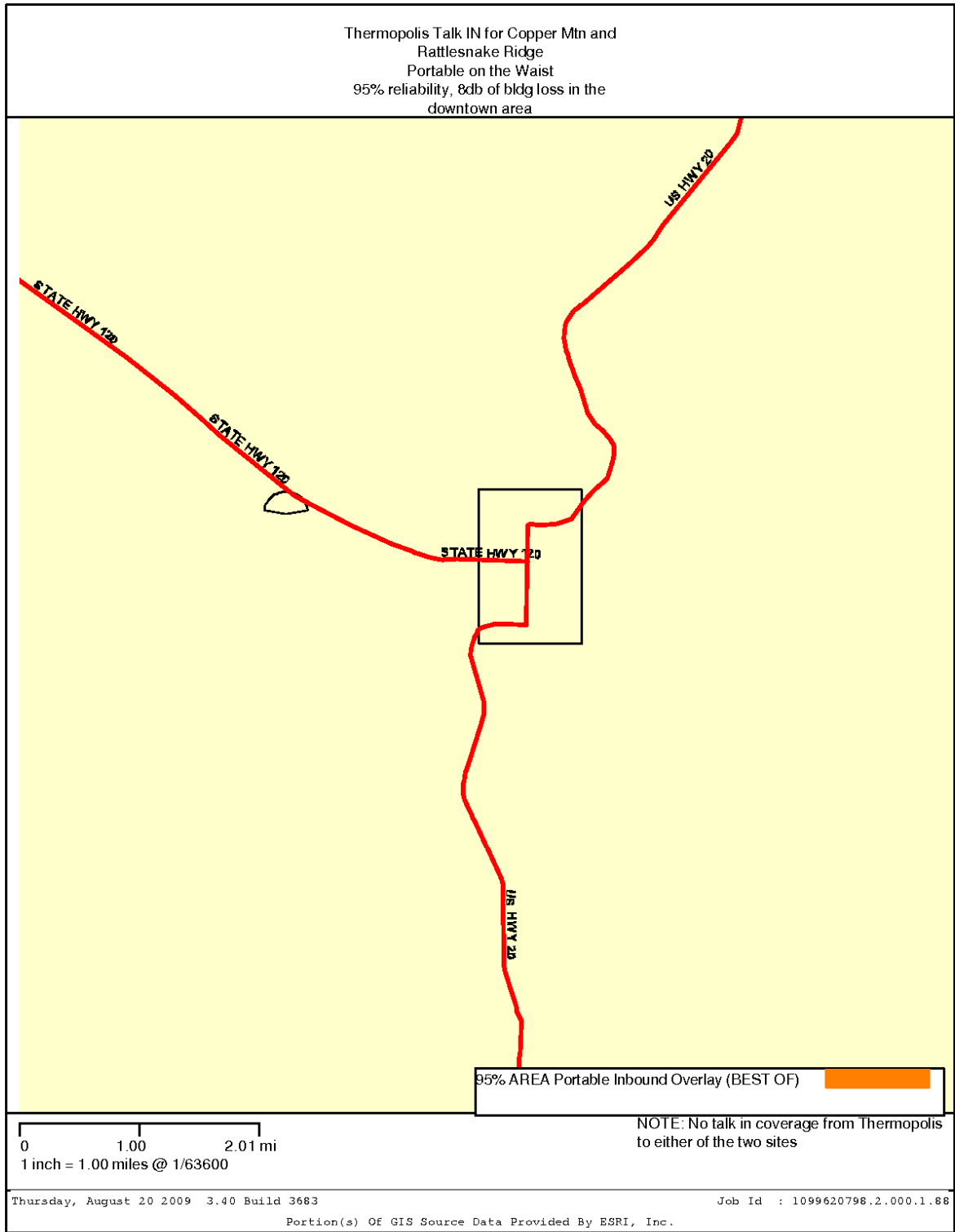


Figure 2: In Building Portable on the Hip Coverage from Existing WyoLink Core Sites

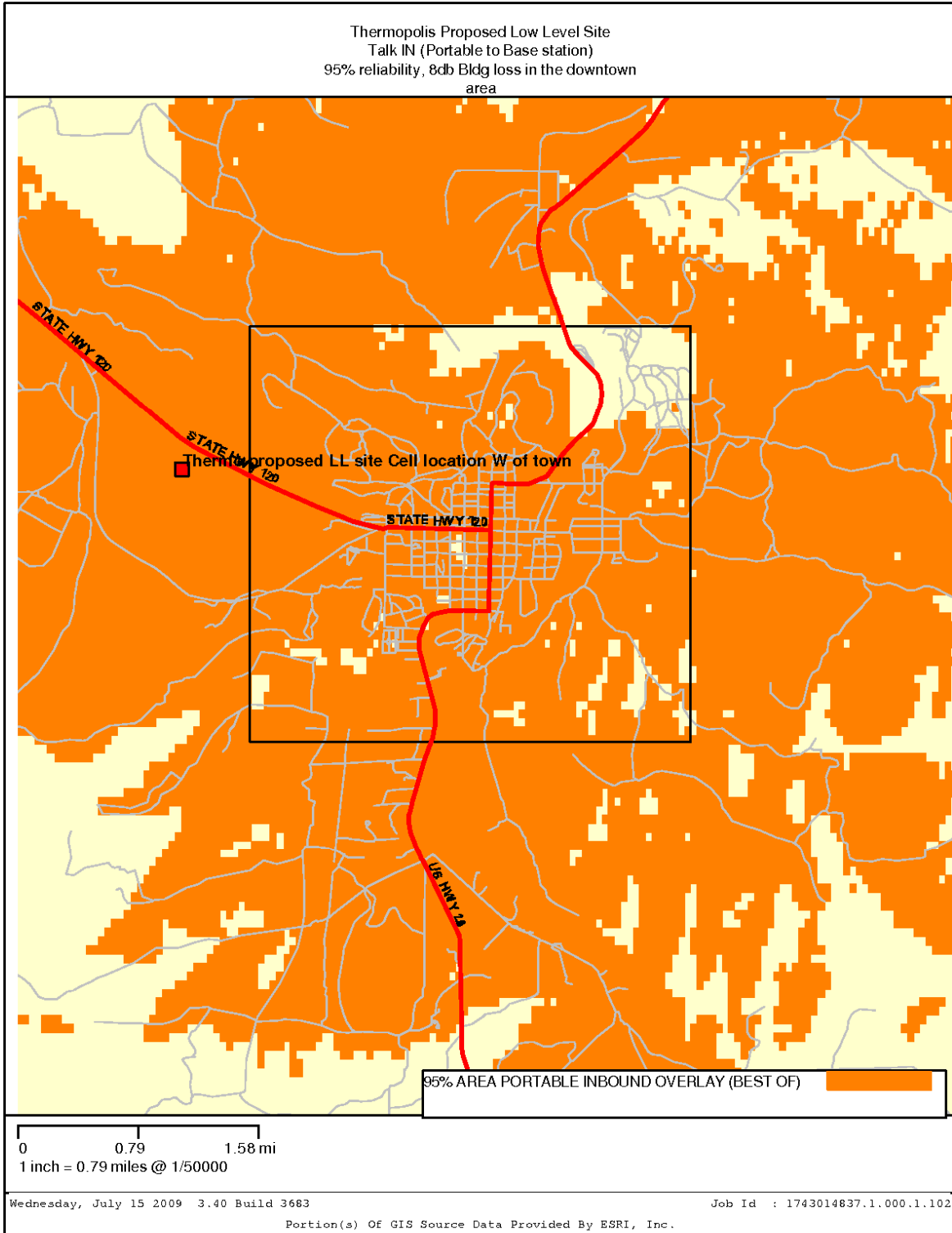
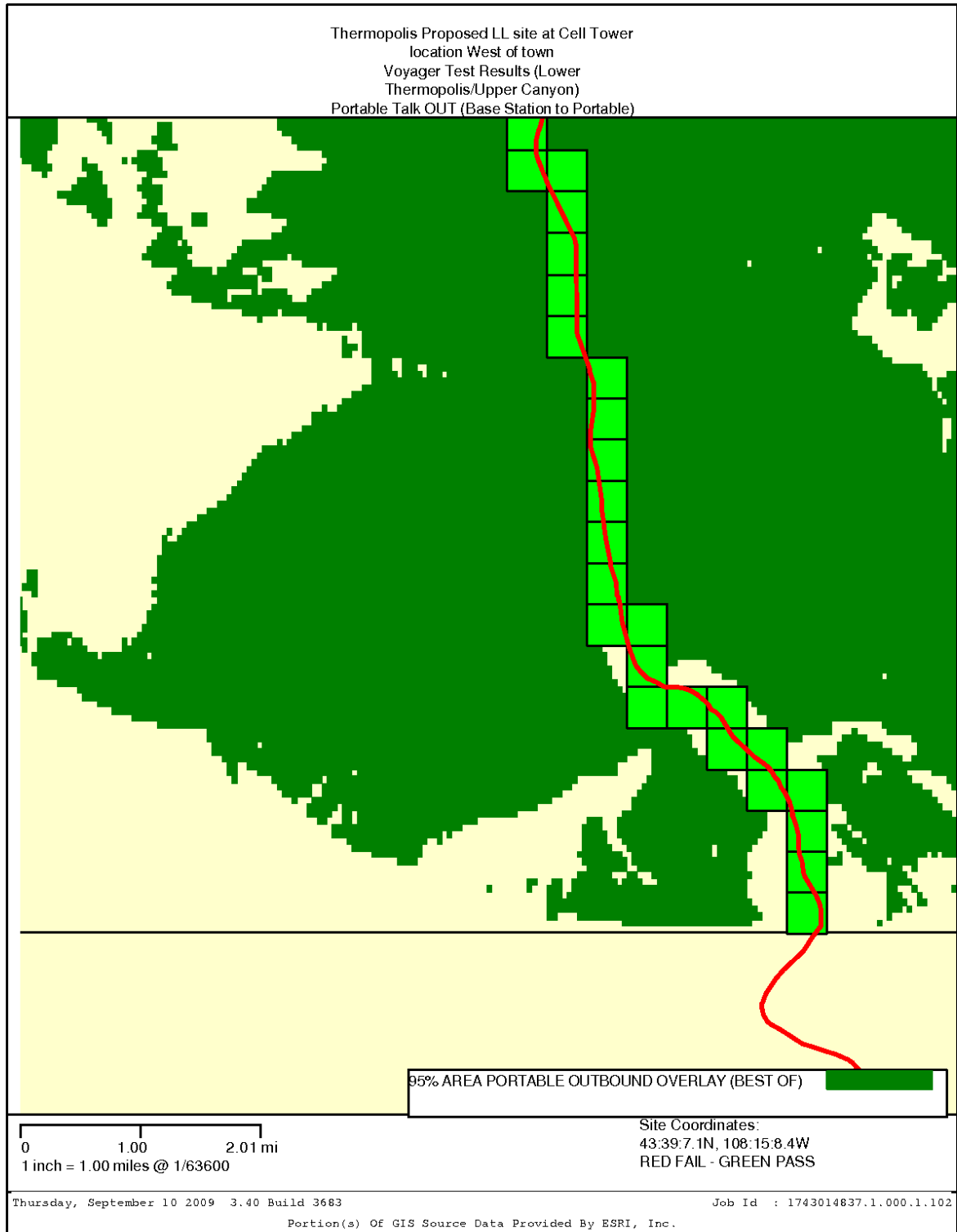


Figure 3: In Building Portable on the Hip Coverage from Proposed WyoLink Low Level Site wnw of Thermopolis



Figure

4: Wind River Canyon Portable Coverage from Proposed WyoLink Low Level Site wnw of Thermopolis

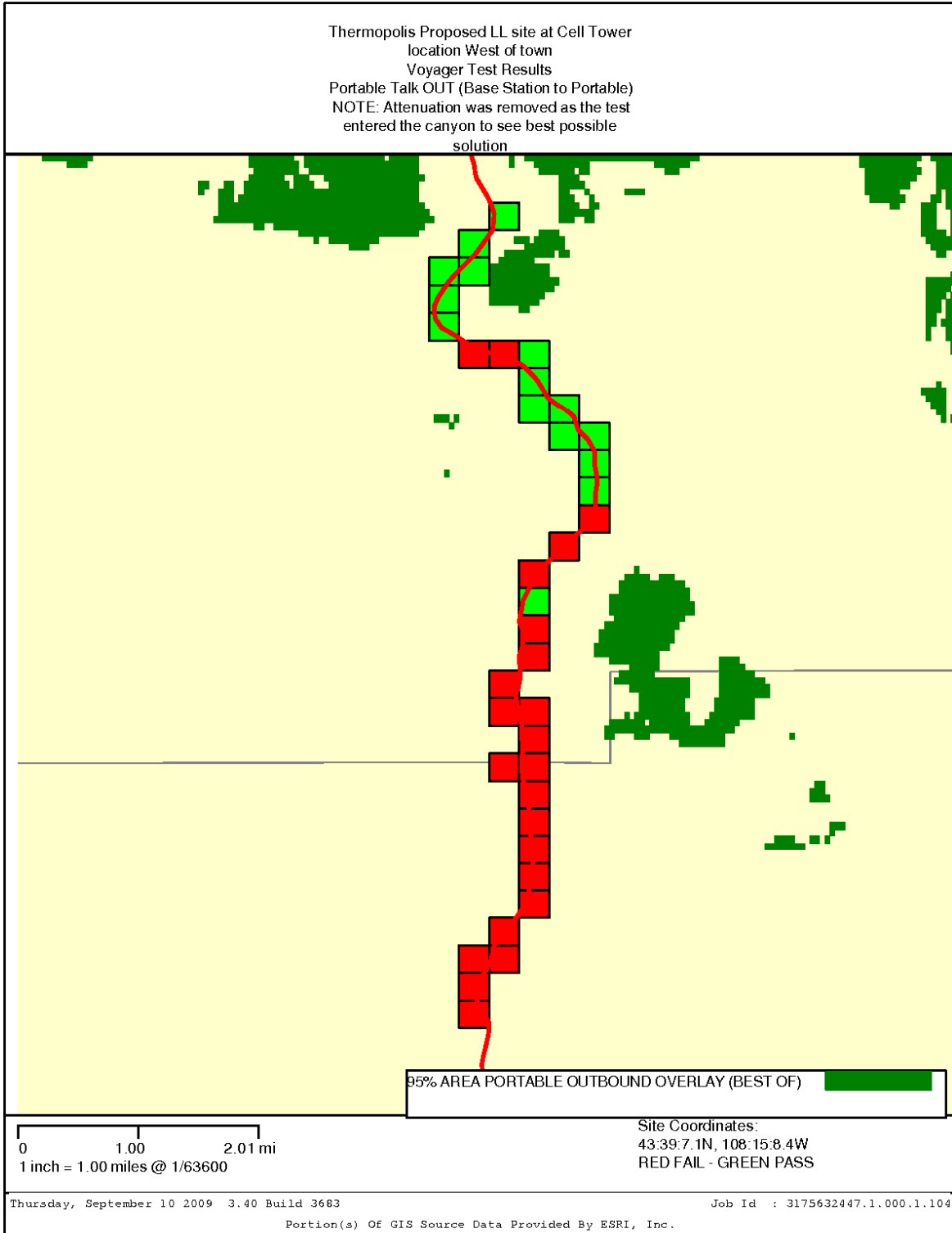


Figure 5: Wind River Canyon Portable Coverage from Proposed WyoLink Low Level Site wnw of Thermopolis

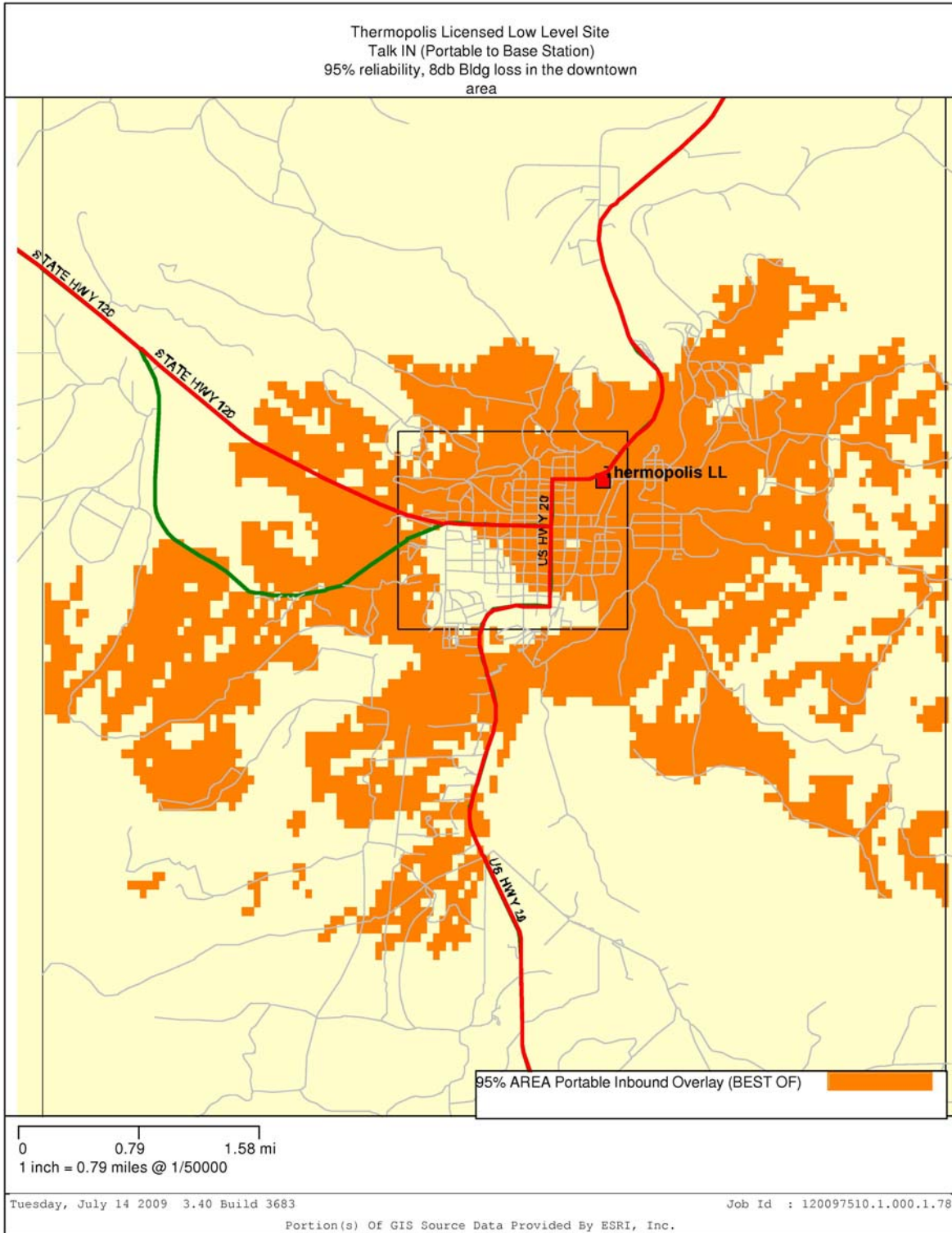


Figure 6: In Building Portable on the Hip Coverage from Proposed WyoLink Low Level Site at 415 Arapahoe