

Proposed Coverage Enhancement Site in Riverton WY

The proposed Coverage Enhancement Site in Riverton at the Riverton High School (2001 W Sunset Drive) is the best of several sites that have been evaluated in Riverton. This site overlooks downtown Riverton and has space and power available for a building and tower.

Coverage from existing conventional system

Figure 1 shows the coverage from the existing conventional system located at the Riverton Police Department (816 N. Federal Blvd). 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 Riverton 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 this new WyoLink site

Figure 3 shows that coverage from the proposed new WyoLink site 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.

Areas projected to lack coverage

There are very 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.

Recommendation

Therefore, it is my recommendation that the city of Riverton, The PSCC, WyoLink and Motorola proceed with constructing a coverage enhancement site at the High School at 2001 W Sunset Drive in Riverton, WY.

Other sites considered

Central Wyoming college at 2660 Peck was considered, but this site is more to the west of the town and due to terrain features left some areas of downtown without coverage.

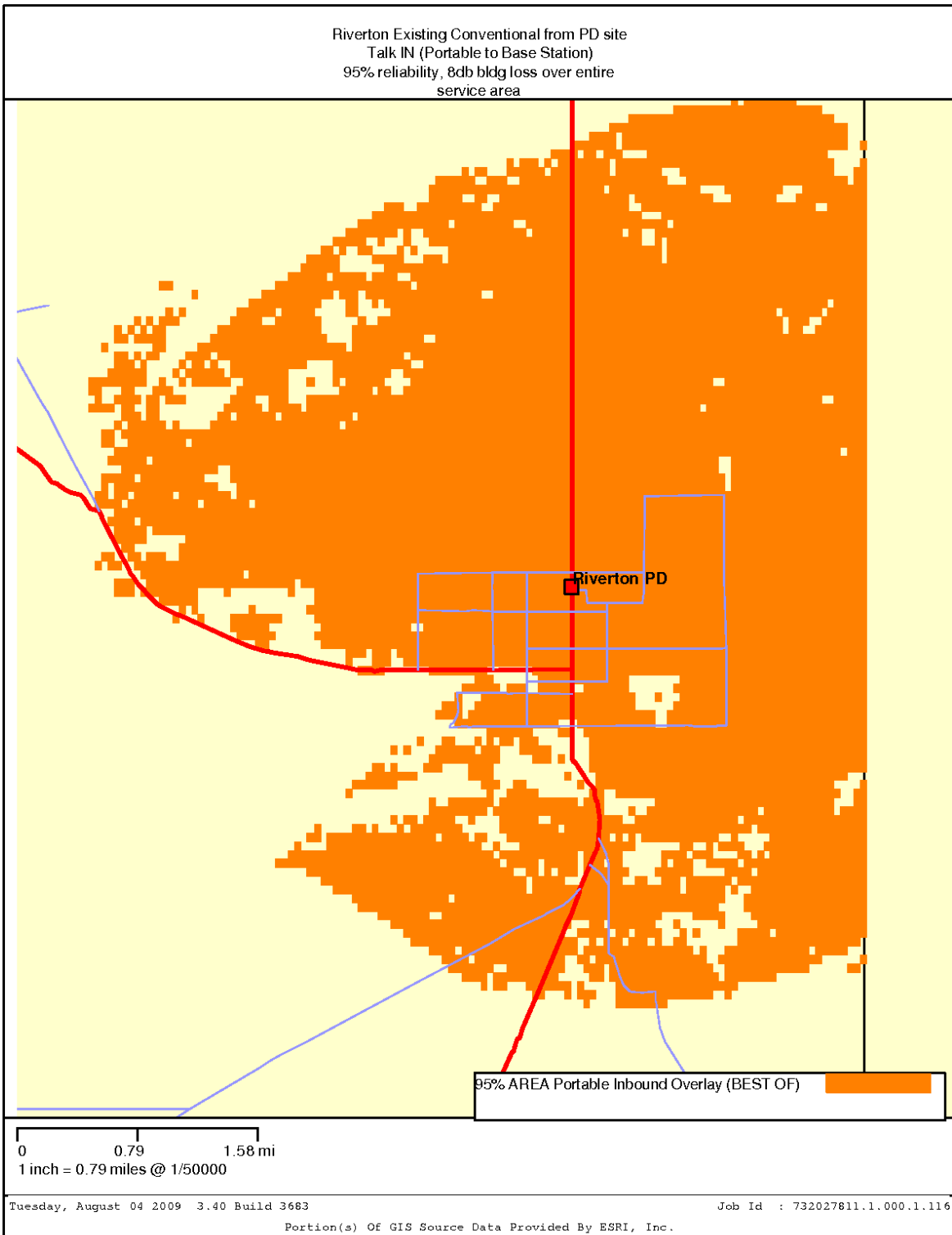


Figure 1: Existing In Building Portable on the Hip Coverage from the Conventional System

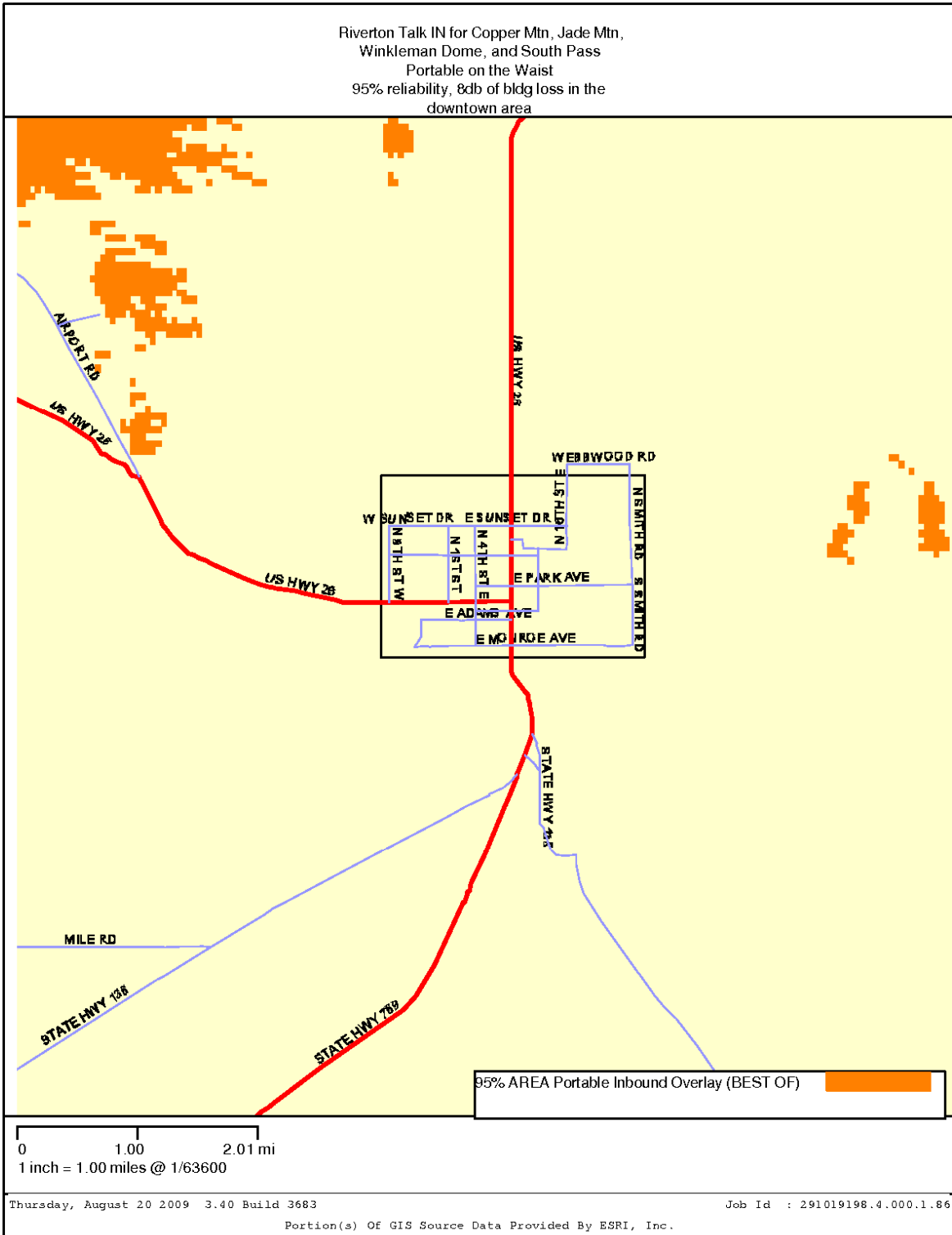


Figure 2: In Building Portable on the Hip Coverage from Existing WyoLink Core Sites

Fremont County Riverton Proposed LL Site
Talk IN (Portable to Base Station)
95% reliability, 8db Bldg loss in the downtown
area

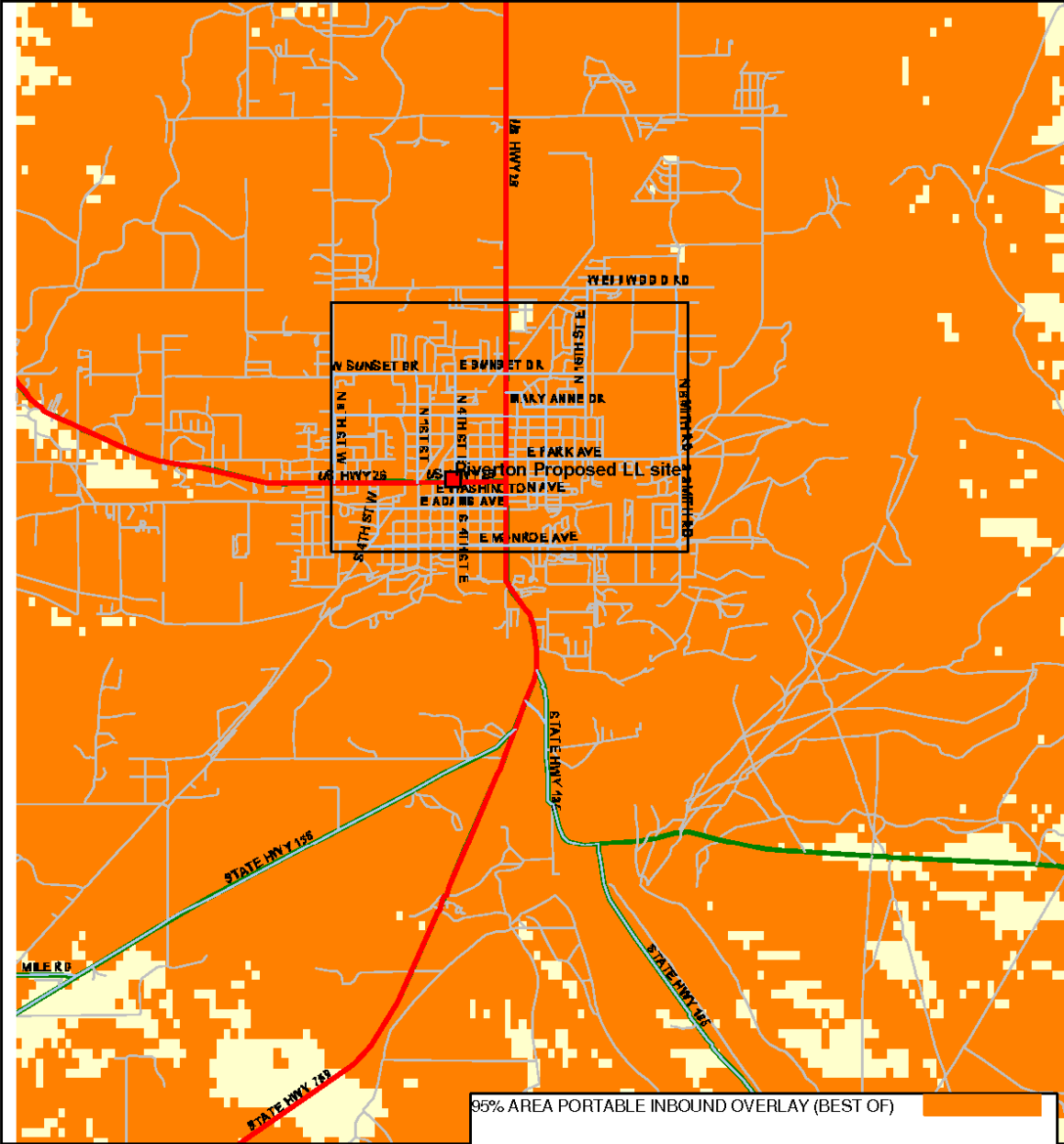


Figure 3: In Building Portable on the Hip Coverage from Proposed WyoLink Low Level Site