
From: jeffrey E. <jeevacation@gmail.com>
Sent: Wednesday, March 23, 2016 1:57 PM
To: Zorro Ranch
Subject: Re: ZDC Internet

we shoot dragon wave further, makes little sense

On Wed, Mar 23, 2016 at 9:52 AM, Zorro Ranch [REDACTED]

Understand=

Will deal with service provision once we have site
<=iv>I'm going to go to Galisteo and check out fiber termination points etc this morning

Sent from my iPhone

On Mar 23, 2016, at 7:04 AM, jeffrey E. <jeevacation@gmail.com> <mailto:jeevacation@gmail.com> wrote:

we do not need a gigabit kind of silly

On Tue, Mar 22, 2016 at 9:53 PM, [REDACTED] <[REDACTED]> wrote:

Jeffrey

attached response, regarding internet services

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[REDACTED]

I apologize for not getting back to you sooner.

<=iv class="gmail_default">Timeframe - Can a quality/reliable fiber system be implemented and installed by May. In theory yes, in reality; highly unlikely. The primary reason is that we don't have an answer or an agreement from the Singleton Ranch as to whether or not we can use their feed site. As you know their feed site is about as perfect as it can get for a radio shot; reasonably close, gigabit fiber is available and it is a very clear shot.. I have advised Vito, their manager and my contact, of the Zorro Ranch time goals and he has advised the Singletons accordingly. Additionally, he has given them my number in the event that they have any questions. I expect to get an answer soon, hopefully within the next week.

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Basically, the ball is in their court. We have expressed urgency and their decision isn't something we can force. If we attempt to do so we have pretty much guaranteed our answer. This is definitely worth waiting for.

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Additionally, as it relates to a May timeline, that is too short of a notice for me – with heavy prior commitments I would not have the time to see it through properly and provide a quality, reliable system. Force the construction of a system like this and it is bound to be problematic and in the end people will be unhappy. I'm not willing to have my clients be unhappy.

Details – Our system would use Ubiquiti Air Fiber antennas operating at either 5GHZ and/or 24GHZ, and very likely a combination of both. These are quality gigabit rated microwave antennas at a reasonable price. We have been using them for our gigabit feed and they have been flawless. As you know with microwave there is degradation of the signal as distances increase and the objective is always to maximize the bandwidth at the end user destination. This is why we would likely partition the bandwidth at the feed and send it thru multiple radios to the destination. This has the added benefit of redundancy.

As to how much bandwidth you buy from Century Link, I'd strongly recommend getting a gigabit. It's not much more than their 500mbps package and when you have 20 or 30 devices using the bandwidth you will be happier with the 1000mbps. Also factor in the signal loss from the feed to the destination.

Plan B and C – believe the best plan B is to find another property within a 5- 10 mile distance of site proximity that is adjacent to live Century Link Gigabit Fiber. Either lease or purchase the property, put in power, build an enclosure for the hand-off router, install an antenna and then we have our feed. This is what I ended up doing on our ranch.

=AO

Plan C would be the Sandia Crest. Difficulty of access, expense, and such a large distance makes it less than ideal for a point to point radio shot. It would take incredibly expensive industrial/military grade equipment to mitigate significant signal degradation. While our 5GHZ radios are rated out to 100 miles and 1Gig, I expect we would be lucky to get 30% of the bandwidth thru.

Century Link – Anne Armstrong and Jerry Folsom from Century Link have been awesome. Their follow up has been impressive and we are lucky to have them. I know that the current rate quote expires (this week I think). Unfortunately, without an agreement from the Singleton's, this just might have to pass. The groundwork has been laid, however and I don't expect their rates will be going up anytime soon. The most important thing is that we have confirmed that we can get gigabit fiber in the Galisteo area.

Numbers - At this point in the project Lali and I have been focused on determining A) is gigabit fiber available at the Singleton Site, B) is a radio shot possible from Singleton to Zorro, and C) can the cost of the feed site infrastructure be shared. The answer to the last question is pending. Once we have an answer to that then we can finalize the cost of the build.

What I can tell you is that the cost of getting power to the Singleton feed location is in the \$15k range, a prefab air conditioned shipping container is in the \$17K range (delivered), towers (depending on what they will allow us to erect), would be in the \$5 - \$10K range (feed side only). Beyond that, we haven't determined numbers for the radios, routers, commissioning of the system etc. There are dozens of options/decisions on that point and we will need to have another meeting to discuss that and establish your baseline expectations.

Wait until the end of the week, or should we proceed with plan B?

Regards

[REDACTED]
Stanley, NM

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