

**From:** [Brown, Timothy J.](#)  
**To:** [Terry Brown](#); [Ron Bohannon](#); [Haynes, Margaret, DOT](#)  
**Cc:** [Armijo, Ernest M.](#); [Jon Niski](#); [Sergio Lozoya](#)  
**Subject:** RE: [#2023123] - Mountain Rd. Rehab Center (Mountain Rd. / I-25)  
**Date:** Wednesday, June 18, 2025 11:36:35 AM  
**Attachments:** [image004.png](#)

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Good Afternoon,

Apologies, I thought I sent this last week. I've completed my review of the Crash Analysis memo. I have the following comments:

1. My crash rate calculation indicates that the entering vehicles per year is about 5,330,000. This is about half of the 11,515,750 stated in the report, which has a significant impact on the crash rate calculation. City GIS crews have calculated the 6 year crash rate using NMDOT crash data and MRCOG volume data as 1.54 overall, and 0.89 fatal/injury. In addition, Mountain is noted on the City's HFIN as having a crash rate above 2X the City mean for fatal and injury crashes.
2. After reviewing the crash reports provided in the memo, I noted that half of the 48 crashes assigned to Mountain and the SB Frontage were injury crashes. As City average ratio for PDO:Fatal/Injury crashes is about 0.30, this means that there are nearly double the amount of injury crashes than what would normally be expected.
3. The crashes devolved into two principal types:
  - a. Left-turn from the wrong lane. Very frequent prior to 2020, somewhat mitigated by additional arrow striping done in mid-2020. Still averaging about 1.5 crashes per year. There were also 2 or 3 improper lane change crashes that I felt could be improper turn crashes, but the initiating driver might have been too embarrassed to admit it, and passed it off as an improper lane change.
  - b. Red-Light-Running (RLR) crashes. I counted 28(!) of these. This is, by far, the worst RLR location I've reviewed in 25 years of looking at crash reports. 19(!) of them were injury crashes. Unfortunately, drivers run reds from all directions for all reasons, so this is not easily tackled.
4. The remaining crashes sorted into not easily correctable categories, like improper backing, rear ends, or road departures due to speeding.

Suggested mitigation:

1. To fix the turn from wrong lane and sideswipe crashes – make left lane a trap left-turn-only lane for Mountain. This intersection does not need three SB lanes of capacity. It will function fine with two. This could be enhanced by dropping the left lane entirely prior to the intersection, then developing a left-turn bay for the intersection. Also, an ONLY could be placed between the two thru arrows in the center lane, and possibly a double white between those two lanes. The double white could be continued on the south side of the intersection for a 100' or so.
2. To address the RLR crashes – as stated above, they happen in all directions. The following may help:
  - a. Put yellow back plates for all approaches. FHWA likes these. I think they'd be useful

particularly for the EB direction, where I believe drivers see the NB Frontage signals and think they have a green. Might also help for WB

- b. Put directional indications at NB Frontage. This will also help the EB RLR issue.
- c. Add secondary indication on back side of EB mast arm for WB traffic. There is already one near side indication on the right side, adding a second may help with WB RLRs.
- d. Remove existing detection and install new detection capable of running red protect. This can be done with the City's current spec, Iteris Vantage. This operation extends the all-red interval by up to 2.5 seconds, which can allow a RLR vehicle to clear the intersection, or at least be more apparent to side street traffic before they enter the intersection.
- e. As long as I'm making suggestions, I'll also put a suggestion in to replace the twisted pair communication we have with fiber. That would allow us to install PTZ cameras at both frontage locations, and use those for crash detection and to monitor incidents. If the old conduit is good, this would be pulling out the old twisted pair, installing new pull boxes, new switches in each cabinet, and CCTVs on the signals.

As a final note, City data incorporates 2023 crash data, which shows a overall crash rate of 2.54 with an injury rate of 1.97, so it does not appear to be improving. Those numbers would make it the 2<sup>nd</sup> or 3<sup>rd</sup> highest injury crash rate intersection in the whole City. This intersection has a serious RLR issue that is resulting in a very high percentage of injury crashes. While all of the above suggestions take place on NMDOT infrastructure and it's ultimately not my call to require, I believe they are worth pursuing.

T

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**From:** Terry Brown <[tbrown@tierrawestllc.com](mailto:tbrown@tierrawestllc.com)>

**Sent:** Monday, June 9, 2025 8:06 AM

**To:** Ron Bohannon <[rrb@tierrawestllc.com](mailto:rrb@tierrawestllc.com)>; Brown, Timothy J. <[tjbrown@cabq.gov](mailto:tjbrown@cabq.gov)>

**Cc:** Armijo, Ernest M. <[earmijo@cabq.gov](mailto:earmijo@cabq.gov)>; Jon Niski <[JNiski@tierrawestllc.com](mailto:JNiski@tierrawestllc.com)>; Sergio Lozoya <[SLozoya@tierrawestllc.com](mailto:SLozoya@tierrawestllc.com)>

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Tim – can you suggest a day and time this week when Ron Bohanna might be able to meet with you at your office to discuss this project.

Let me know...

Thanks,

Terry

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**From:** Ron Bohannon <[rrb@tierrawestllc.com](mailto:rrb@tierrawestllc.com)>

**Sent:** Monday, June 9, 2025 6:41 AM

**To:** Terry Brown <[tbrown@tierrawestllc.com](mailto:tbrown@tierrawestllc.com)>; Brown, Timothy J. <[tjbrown@cabq.gov](mailto:tjbrown@cabq.gov)>  
**Cc:** Armijo, Ernest M. <[earmijo@cabq.gov](mailto:earmijo@cabq.gov)>; Jon Niski <[JNiski@tierrawestllc.com](mailto:JNiski@tierrawestllc.com)>; Sergio Lozoya <[SLozoya@tierrawestllc.com](mailto:SLozoya@tierrawestllc.com)>  
**Subject:** RE: [#2023123] - Mountain Rd. Rehab Center (Mountain Rd. / I-25)

Tim and Terry did you get a chance to discuss on Friday?

Thanks  
Ron

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**From:** Ron Bohannon <[rrb@tierrawestllc.com](mailto:rrb@tierrawestllc.com)>  
**Sent:** Friday, June 6, 2025 6:57 AM  
**To:** Terry Brown <[tbrown@tierrawestllc.com](mailto:tbrown@tierrawestllc.com)>; Brown, Timothy J. <[tjbrown@cabq.gov](mailto:tjbrown@cabq.gov)>  
**Cc:** Armijo, Ernest M. <[earmijo@cabq.gov](mailto:earmijo@cabq.gov)>; Jon Niski <[JNiski@tierrawestllc.com](mailto:JNiski@tierrawestllc.com)>; Ron Bohannon <[rrb@tierrawestllc.com](mailto:rrb@tierrawestllc.com)>; Sergio Lozoya <[SLozoya@tierrawestllc.com](mailto:SLozoya@tierrawestllc.com)>  
**Subject:** RE: [#2023123] - Mountain Rd. Rehab Center (Mountain Rd. / I-25)

Tim, we have cleared all the issues with zoning on the project and it is proceeding to final building permit. Can we set up a time next week to go over the project and see if we can get this completed.

Thanks

Ronald R. Bohannon, P.E.  
Tierra West LLC  
5571 Midway Parkplace NE  
Albuquerque, NM 87109  
Office 505-858-3100  
Cell 505-238-5385

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**From:** Ron Bohannon  
**Sent:** Tuesday, June 3, 2025 6:51 AM  
**To:** Terry Brown <[tbrown@tierrawestllc.com](mailto:tbrown@tierrawestllc.com)>; 'Brown, Timothy J.' <[tjbrown@cabq.gov](mailto:tjbrown@cabq.gov)>  
**Cc:** 'Armijo, Ernest M.' <[earmijo@cabq.gov](mailto:earmijo@cabq.gov)>; Ron Bohannon <[rrb@tierrawestllc.com](mailto:rrb@tierrawestllc.com)>; Jon Niski <[jniski@tierrawestllc.com](mailto:jniski@tierrawestllc.com)>  
**Subject:** RE: [#2023123] - Mountain Rd. Rehab Center (Mountain Rd. / I-25)

Tim, we are getting close to get a building permit for the project. Checking to see if you can review.

Thanks

Ronald R. Bohannon, P.E.  
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**From:** Terry Brown  
**Sent:** Wednesday, May 28, 2025 10:36 AM  
**To:** Brown, Timothy J. <[tjbrown@cabq.gov](mailto:tjbrown@cabq.gov)>  
**Cc:** Armijo, Ernest M. <[earmijo@cabq.gov](mailto:earmijo@cabq.gov)>; Ron Bohannon <[rrb@tierrawestllc.com](mailto:rrb@tierrawestllc.com)>  
**Subject:** [#2023123] - Mountain Rd. Rehab Center (Mountain Rd. / I-25)

Tim - FYI

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**From:** Terry Brown  
**Sent:** Wednesday, May 7, 2025 5:34 PM  
**To:** Tim Brown ([tjbrown@cabq.gov](mailto:tjbrown@cabq.gov)) <[tjbrown@cabq.gov](mailto:tjbrown@cabq.gov)>; 110-01 City of ABQ Ernesto Armijo <[earmijo@cabq.gov](mailto:earmijo@cabq.gov)>  
**Cc:** Ron Bohannon <[rrb@tierrawestllc.com](mailto:rrb@tierrawestllc.com)>; Jon Niski <[jniski@tierrawestllc.com](mailto:jniski@tierrawestllc.com)>  
**Subject:** [#2023123] - Mountain Rd. Rehab Center (Mountain Rd. / I-25)

Tim / Ernest,

Here is a link to the Tierra West, LLC ftp site to download both the Final Traffic Study and the Mountain Traffic Memo. The latter contains the detailed crash analysis of Mountain Rd. / I-25 W. Frontage Rd.

<http://ftpserver.tierrawestllc.com/>

Login ID: 2023123

Password: 2023123

Please call me if you have questions.

Best Regards,

Terry O. Brown, P.E.



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