

**GUNNISON COUNTY, COLORADO**  
**PUBLIC WORKS DEPARTMENT**

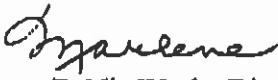
811 RIO GRANDE  
GUNNISON, CO 81230

Phone: (970) 641-0044

Fax: (970) 641-8120

**FAX TRANSMITTAL COVER SHEET**

**TO:** Alisa Babler  
Permit Unit Engineer

**FROM:** Marlene D. Crosby   
Assistant County Manager/Public Works Director

**DATE:** 1/4/2011

**SUBJECT:** Intersection Information

**COMMENTS:**

To follow please find the information regarding three (3) intersections in our area, in no particular order.

I did not send a copy of this information to Emily Gloeckner, P.E. If you could forward this information to her it would be much appreciated.

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**THIS TRANSMISSION CONSISTS OF 16 PAGES, INCLUDING THE COVER SHEET. IF YOUR FAX IS INCOMPLETE OR DOES NOT TRANSMIT PROPERLY, PLEASE CALL 970/641-0044, OR FAX TO 970/641-8120**

**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

**Region 3 Intersection Analysis and Prioritization**  
**Intersection Application**

**Requesting Agency**

Agency Name	Gunnison County
Contact Person	Marlene D. Crosby
Title	Assistant County Manager / Public Works Director
Email	mcrosby@gunnisoncounty.org
Phone Number	970-641-0044
Mailing Address	811 Rio Grande Gunnison, CO 81230

**Intersection Location**

Highway (example, US 50)	HW #135		
Highway Milepost	20.7		
Local Cross Street name	Cement Creek Road- CR #740		
Is the Cross Street (check one)	Public ROW <input checked="" type="checkbox"/>	Private Drive	Other

**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

Intersection Information

Type of Intersection (check one)	Signal	Minor St Stop <input checked="" type="checkbox"/>	All Way Stop	Other:
Nearby Driveways	Yes: <input checked="" type="checkbox"/> Distance between intersections: HW #135 - 1 driveway at 20.3 (west side of HW) CA #740 - 3 driveways with first .15 mile			No
Traffic Mix (check all that apply)	Trucks <input checked="" type="checkbox"/>	Pedestrians <input checked="" type="checkbox"/>	Bicycles <input checked="" type="checkbox"/>	Other:
Intersection Issues	Please describe the types of safety or operational issues at the intersection.			

1 on south  
2 on north  
Side

**Safety**

Gunnison County has found it very difficult to obtain accident information from the Colorado State Patrol office. Hopefully CDOT has better access to that information. In all cases, accident information does not address the near misses, which result in someone going off into the ditch or avoiding an accident by driving defensively.

Winter conditions cause the biggest safety issue at this intersection. The snow line for many storms is near this intersection. Drivers heading north out of Gunnison are often on dry pavement which rapidly turns to icy, snowy roads very close to this intersection. It is also an area where the wind blows very hard west to east.

The traffic at this particular intersection is very high both in the morning and in the evening, since most of the residents travel to Gunnison or Crested Butte to work. In the evening when it gets dark so early there is a valid safety concern. The Crested Butte South Property Owner's Association tried to help address the lack of visibility both during bad weather and at night by installing a light. It is my understanding that they paid for the light, the installation, and also pay the monthly electric bill for the light.

**Operational Issues:**

During the CDOT project on HW #135 there were no improvements made to this intersection. Gunnison County has not made any major improvements to the intersection within the CDOT ROW, but we have paved CR #740 and added a bike lane. The Crested Butte South Property Owner's Association is concerned because it is not a perpendicular intersection. Their contention is that it would be much more efficient, safer, and visibility would be improved if the intersection was a 90 degree intersection. Gunnison County has tried to address their concerns by moving the location of the stop sign and with pavement markings which include a stop line that improves visibility.

Gunnison County does traffic counts on the road and has for many years. We have a loop counter in the road which counts traffic moving in both directions. We do not do any seasonal adjustments, we just take raw data. Traffic has increased on this road more than almost any other Gunnison County road. There have been many new houses constructed in Crested Butte South over the last 5-8 years. The ADT is 1998 was 1,310. In 2009 the ADT was 2,782, which is just over double in a 10+ year period.

There are both right and left turn lanes on HW #135. There is an acceleration lane going northbound, but there is not an acceleration lane for traffic turning southbound, they are required to merge with other highway traffic in a short distance.

**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

**Intersection Deficiencies**

Please provide a brief description of the existing intersection deficiencies and associated safety concerns, including time of the concerns (day of the week/hour(s)/seasons/time/weekday/weekend/holiday/etc):

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**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

Mitigation

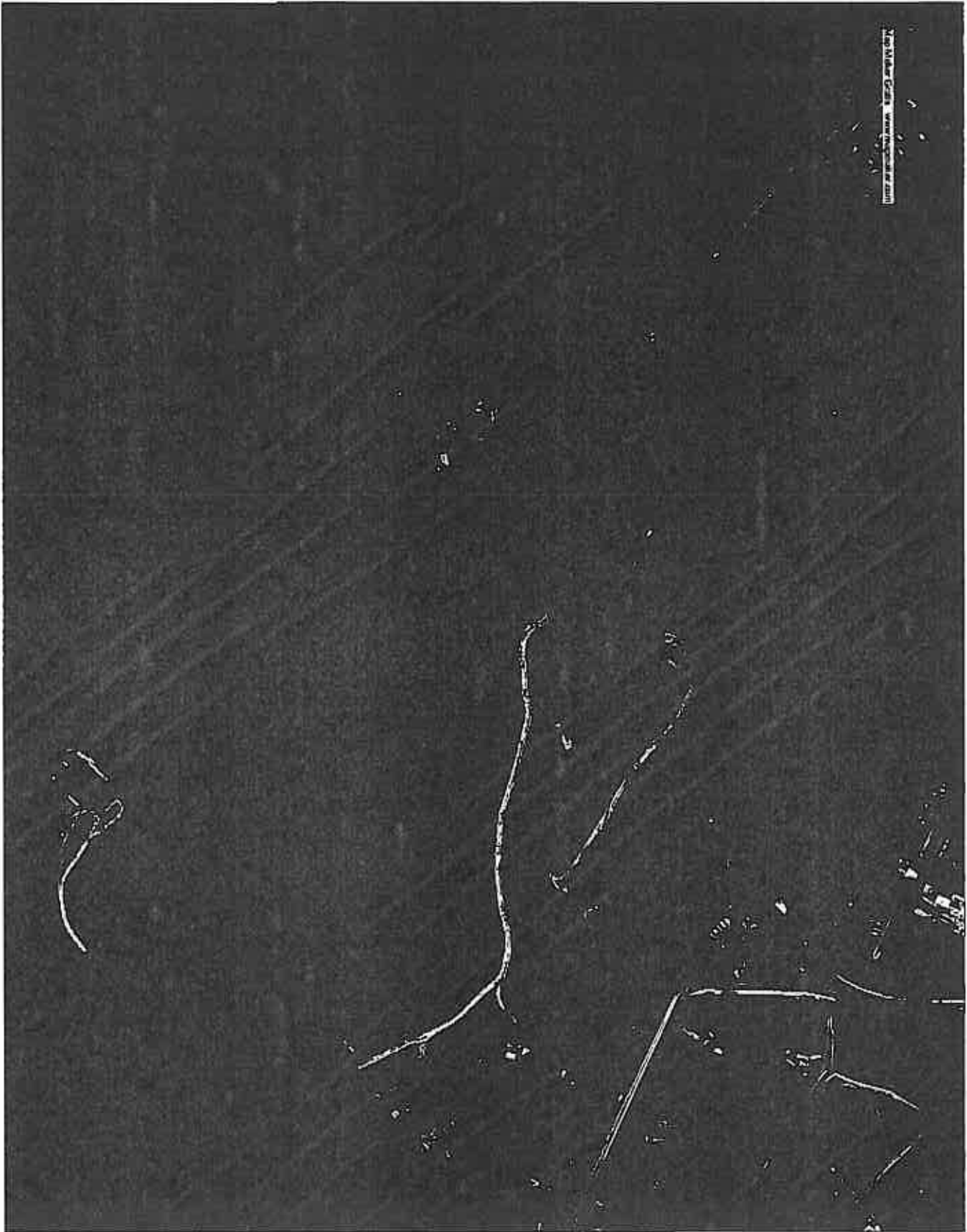
Please provide a brief description of possible mitigations, improvements, and/or projects to mitigate the safety concerns at the intersection:

No Suggestions -

Are there any existing plans for improvements for this intersection? Yes/No. If yes, please explain:

Are any additional funding sources available for this project: Yes/No. If yes, please explain:

Does this intersection have impacts to adjacent intersections, roadways, etc? If yes, please explain:



**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

**Region 3 Intersection Analysis and Prioritization**  
**Intersection Application**

**Requesting Agency**

Agency Name	Gunnison County
Contact Person	Marlene D. Crosby
Title	Assistant County Manager / Public Works Director
Email	mcrosby@gunnisoncounty.org
Phone Number	970-641-0044
Mailing Address	811 Rio Grande Gunnison, CO 81230

**Intersection Location**

Highway (example, US 50)	HW #135		
Highway Milepost	25.5		
Local Cross Street name	Brush Creek Road CR#738		
Is the Cross Street (check one)	Public ROW <input checked="" type="checkbox"/>	Private Drive	Other

**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

**Intersection Information**

Type of Intersection (check one)	Signal	Minor St Stop ✓	All Way Stop	Other:
Nearby Driveways	Yes: X Distance between intersections: 1 mile South of intersection - 7 intersections .5 " north - 1 intersection			No
Traffic Mix (check all that apply)	Trucks ✓	Pedestrians ✓	Bicycles ✓	Other:
Intersection Issues	Please describe the types of safety or operational issues at the intersection.			
Safety Issues: / Operational Issues				
<p>Gunnison County has found it very difficult to obtain accident information from the Colorado State Patrol office. Hopefully CDOT has better access to that information. In all cases, accident information does not address the near misses, which result in someone going off into the ditch or avoiding an accident by driving defensively.</p> <p>CDOT is well aware of the number of intersections on this short section of road because of their work with the HOA at Riverland.</p> <p>This intersection does not have any known significant issues in the summer even though traffic volumes are higher in the summer than in the winter due to the Crested Butte Country Club's golf course being a popular summer attraction. The problems occur during the winter when the intersection is icy. Gunnison County hired an engineer to evaluate the possibility of improvements on the Brush Creek Road to improve the grade at the intersection, and we even obtained a permit.</p> <p>Unfortunately the work that was recommended required a significant cut and we could find no way to make the cut and still maintain traffic on the Brush Creek Road. Also, this is an area where the wind blows and we continually build snow traps on the north side of the road to keep the road open in the winter. Our concern was that with the lower elevation the road would become the snow trap.</p> <p>Another consideration which precluded safety improvements, but is more of an operational issue, was the culvert within the CDOT ROW would freeze solid and all of the water would hit the intersection. A plan to lower the culvert and install a bigger pipe had to be abandoned because of the utilities located just under the culvert. We have worked with CDOT maintenance crews on the issues. They have done a great deal of ditch work and all of us aggressively maintain the culvert which has definitely helped.</p> <p>Gunnison County does traffic counts on the road and has for many years. We have a loop counter in the road which counts traffic moving in both directions. We do not do any seasonal adjustments, we just take raw data. The ADT in 1997 was 1,494. In 2009 the ADT was 2,309.</p>				



**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

**Intersection Deficiencies**

Please provide a brief description of the existing intersection deficiencies and associated safety concerns, including time of the concerns (day of the week/hour(s)/seasons/time/weekday/weekend/holiday/etc):

See Page 3

**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

Mitigation

Please provide a brief description of possible mitigations, improvements, and/or projects to mitigate the safety concerns at the intersection:

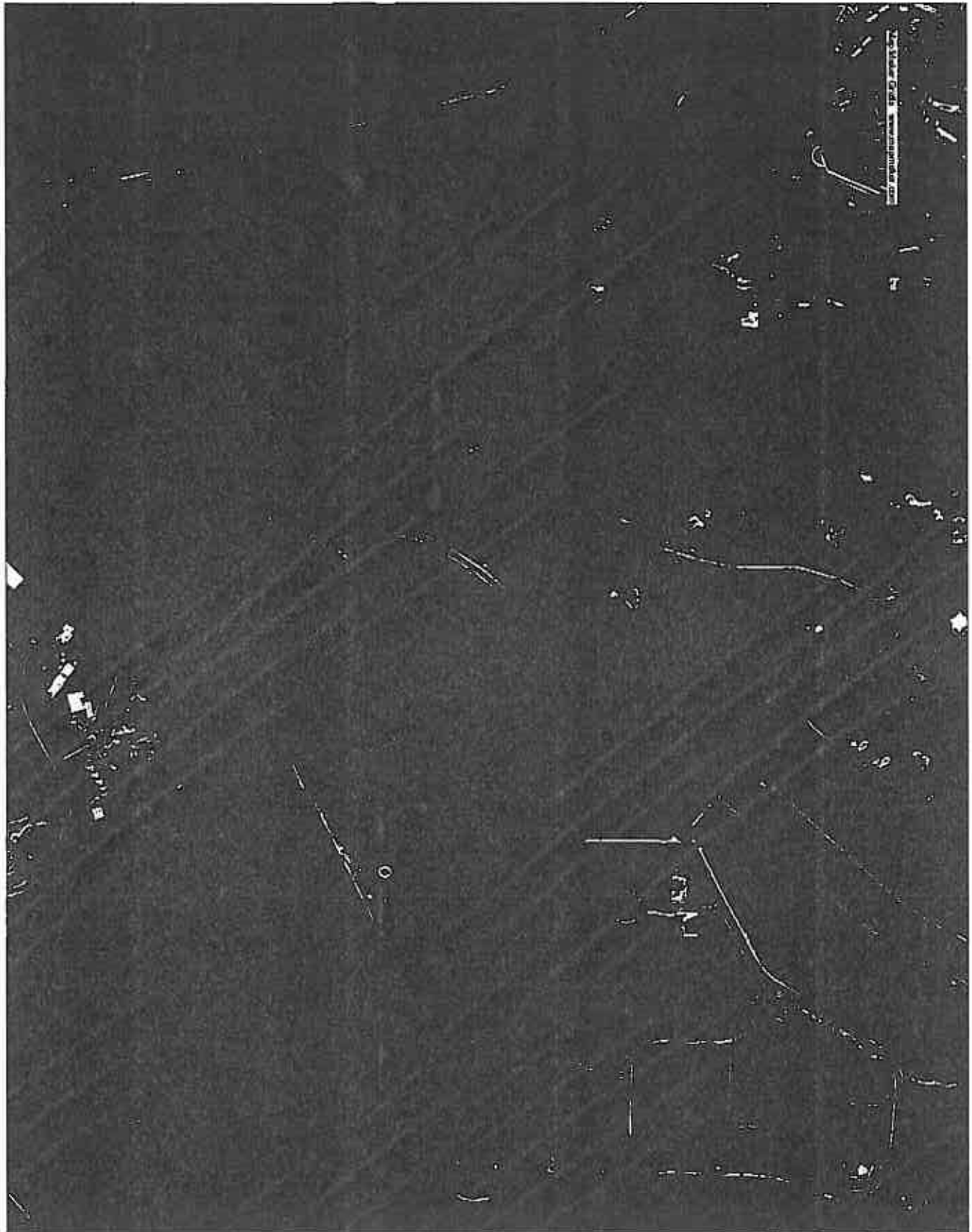
There is power at this intersection at CB Country Club's sign. Possibly the installation of a light would help. -

(The Town of Crested Butte would probably want some input on any proposed improvements)!

Are there any existing plans for improvements for this intersection? Yes/No. If yes, please explain:

Are any additional funding sources available for this project? Yes/No. If yes, please explain:

Does this intersection have impacts to adjacent intersections, roadways, etc? If yes, please explain:



**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

**Region 3 Intersection Analysis and Prioritization**  
**Intersection Application**

**Requesting Agency**

Agency Name	Gunnison County
Contact Person	Marlene D. Crosby
Title	Assistant County Manager / Public Works Director
Email	mcrosby@gunnisoncounty.org
Phone Number	970-641-0044
Mailing Address	811 Rio Grande Gunnison, CO 81230

**Intersection Location**

Highway (example, US 50)	US 50 - Frontage Road		
Highway Milepost	MM 155.5 (taken from mm on main road)		
Local Cross Street name	Antelope Creek Road - CR#17		
Is the Cross Street (check one)	Public ROW <input checked="" type="checkbox"/>	Private Drive	Other

**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

**Intersection Information**

Type of Intersection (check one)	Signal	Minor St Stop	All Way Stop	Other:
Nearby Driveways	Yes: <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		No
	Distance between intersections: - Within .2 of a mile of the intersection (on the east) there are 3 accesses On CR 17 with .02 of a mile there are 3 accesses			
Traffic Mix (check all that apply)	Trucks <input checked="" type="checkbox"/>	Pedestrians <input checked="" type="checkbox"/>	Bicycles <input checked="" type="checkbox"/>	Other: a church, a business & a home
Intersection Issues	Please describe the types of safety or operational issues at the intersection.			
Safety Issues: / Operational	<p>Gunnison County has found it very difficult to obtain accident information from the Colorado State Patrol office. Hopefully CDOT has better access to that information. In all cases, accident information does not address the near misses, which result in someone going off into the ditch or avoiding an accident by driving defensively.</p> <p>The Antelope Creek Road accesses onto the frontage road at the top of a steep hill which limits visibility both for the vehicles on the frontage road and for the car entering the intersection from Antelope Creek. The intersection is not a 90 degree intersection and has a steep approach and is on a curve. There are three private accesses immediately past the intersection.</p> <p>If a car slides through the intersection for any reason they not only cross two lanes of traffic that might not see them in time to react, but there is also no barrier to keep them from going over the embankment onto US 50. In the winter if there is enough snow a berm of snow is pushed up to provide some barrier.</p> <p>Gunnison County does traffic counts on the road and has for many years. We have a loop counter in the road which counts traffic moving in both directions. We do not do any seasonal adjustments, we just take raw data. The ADT in 1997 was 885. In 2009 the ADT was 873. Looking back to 2008 the ADT was 1,163. The decrease in 2009 might be due to the number of vacant homes and mobile homes in the Antelope Hills Subdivision due to the economy.</p>			

**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

**Intersection Deficiencies**

Please provide a brief description of the existing intersection deficiencies and associated safety concerns, including time of the concerns (day of the week/hour(s)/seasons/time/weekday/weekend/holiday/etc):

See Page 3

**DEPARTMENT OF TRANSPORTATION**  
Traffic & Safety Section

**Mitigation**

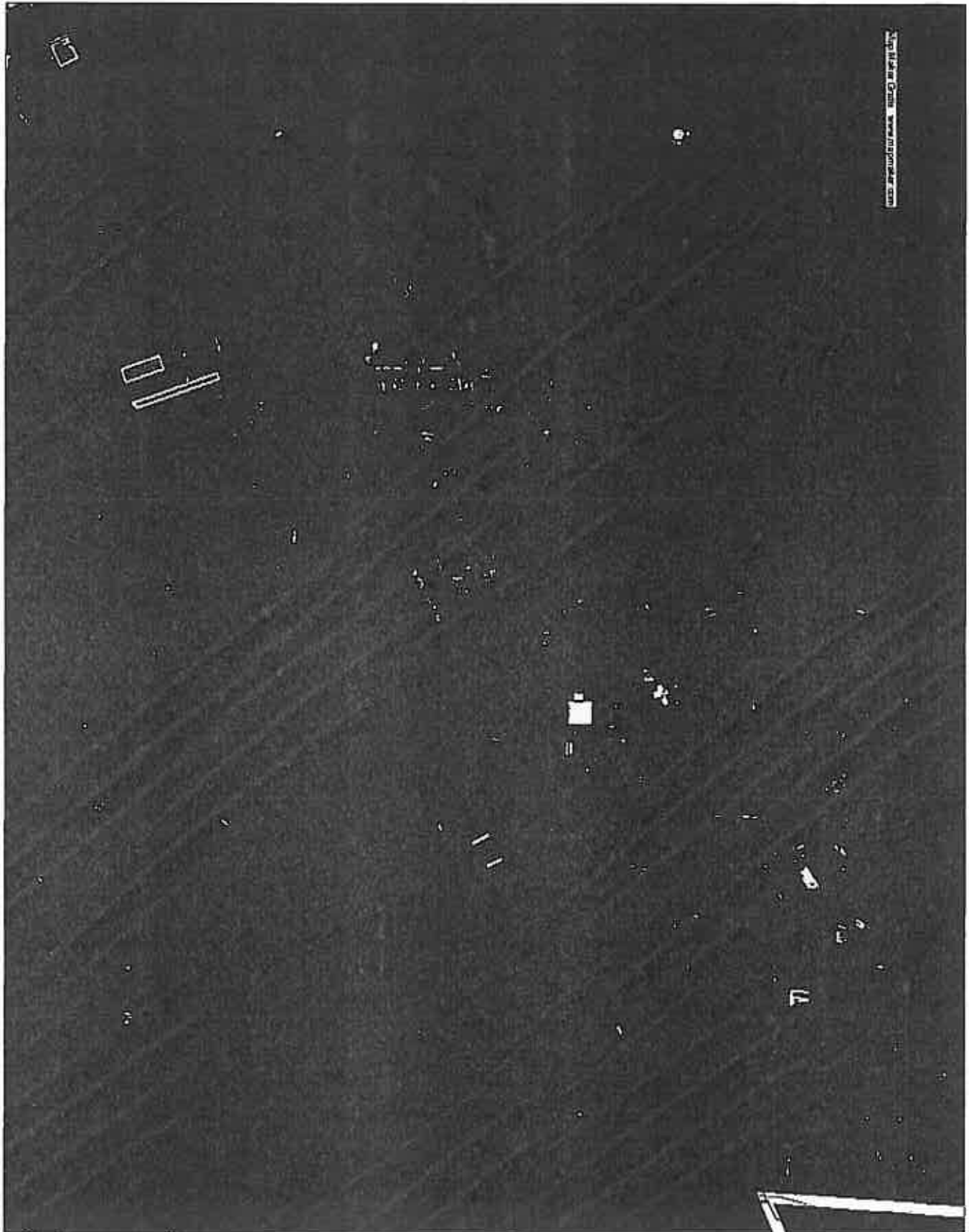
Please provide a brief description of possible mitigations, improvements, and/or projects to mitigate the safety concerns at the intersection:

We have no suggestions  
if the intersection remains  
in its current location.

Are there any existing plans for improvements for this intersection? Yes/No. If yes, please explain:

Are any additional funding sources available for this project? Yes/No. If yes, please explain:

Does this intersection have impacts to adjacent intersections, roadways, etc? If yes, please explain:





**CDOT Region 3 Intersection Analysis and Prioritization Intersection Application**  
**10<sup>th</sup> Street and Highway 50**  
**City of Gunnison**

**Requesting Agency**

Agency Name	City of Gunnison
Contact Person	Ken (Tex) Bradford, Public Works Director, <a href="mailto:tex@cityofgunnison-co.gov">tex@cityofgunnison-co.gov</a> Steve Westbay, Community Development Director, <a href="mailto:swestbay@cityofgunnison-co.gov">swestbay@cityofgunnison-co.gov</a>
Title	See contact information above
Email	See contact information above
Phone Number	Ken Bradford 970-641-8322 Steve Westbay 970-641-8152
Mailing Address	PO Box 239 Gunnison, CO 81230

**Intersection Location**

Highway (example US 50)	US Highway 50
Highway Milepost	156.8 miles
Local Cross Street	10 <sup>th</sup> Street
Is the Cross Street (check one)	10 <sup>th</sup> and abutting islands are Public ROW (see Attachment 1)

**Intersection Information**

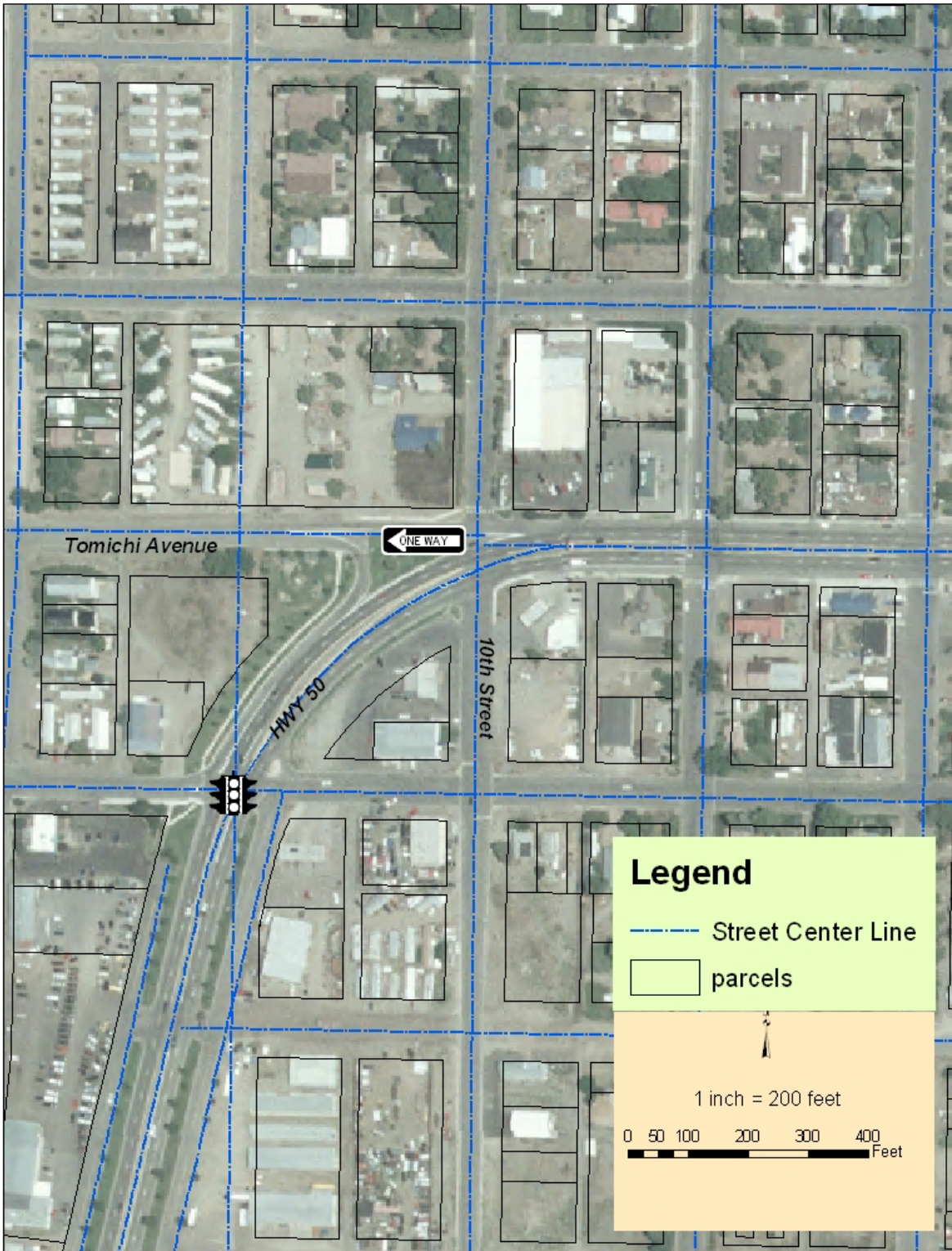
Type of Intersection	This is a full movement intersection with stop signs on 10 <sup>th</sup> Street.			
Nearby Driveways	Yes: There are several nearby driveways. The nearest driveway serves Ace Hardware and is 70 from the 10 <sup>th</sup> Street Center line.			
Traffic Mix check all that apply	Trucks <input checked="" type="checkbox"/>	Pedestrians <input checked="" type="checkbox"/>	Bicycles <input checked="" type="checkbox"/>	Other:
Intersection Issues	This intersection has five legs. The highway section is very wide and makes it difficult for left-turn movement from 10 <sup>th</sup> Street.			
Safety Issues	Site distances are fair but the geometric design and approach angles are strange.			
Operational Issues	Left turn movements from 10 <sup>th</sup> Street are prohibited; it difficult to enforce.			

**Intersection Deficiencies**

Please provide a brief description of the existing intersection deficiencies and associated safety concerns, including time of concerns (day of the week/hour/season/weekday/weekend/holiday).

As noted in the text comments above, the width of the highway section and the geometric design are problematic. The intersection consists of five legs. A streetlight is located one block to the southwest of the 10<sup>th</sup> Street intersection which is problematic for optimal signalized separation.

The intersection serves to access the local high school, which is three blocks north of the intersection, and it also, serves to access a local retail business. Peak traffic volumes are experienced on weekdays (morning/afternoon) when school is in session. However, weekend traffic volumes during the summer season, which are generated by the retail store and summer visitors, is also very high.



**CDOT Region 3 Intersection Analysis and Prioritization Intersection Application**  
**Spencer Avenue and Highway 135**  
**City of Gunnison**

**Requesting Agency**

Agency Name	City of Gunnison
Contact Person	Ken (Tex) Bradford, Public Works Director, <a href="mailto:tex@cityofgunnison-co.gov">tex@cityofgunnison-co.gov</a> Steve Westbay, Community Development Director, <a href="mailto:swestbay@cityofgunnison-co.gov">swestbay@cityofgunnison-co.gov</a>
Title	See contact information above
Email	See contact information above
Phone Number	Ken Bradford 970-641-8322 Steve Westbay 970-641-8152
Mailing Address	PO Box 239 Gunnison, CO 81230

**Intersection Location**

Highway (example US 50)	US Highway 135
Highway Milepost	0.75 miles
Local Cross Street	Spencer Avenue
Is the Cross Street (check one)	Spencer Avenue is Public ROW (see Attachment 1)

**Intersection Information**

Type of Intersection	This is a full movement intersection with stop light control			
Nearby Driveways	Yes: There are several nearby driveways. The nearest driveway serves convenience store and is 70 from the Spencer Avenue center line.			
Traffic Mix check all that apply	Trucks <input checked="" type="checkbox"/>	Pedestrians <input checked="" type="checkbox"/>	Bicycles <input checked="" type="checkbox"/>	Other:
Intersection Issues	Turn movements on east and west bound Spencer Avenue are restricted. Additionally, this intersection is a very busy pedestrian crossing because it is used by citizens traveling to the City Recreation Center and Pool. Sidewalk crossing are substandard and create safety issues.			
Safety Issues	Site distances are fair but the geometric design precludes safe turning movements and pedestrian facilities are substandard.			
Operational Issues	Several large utilities are located near the intersection which makes the design of a functional pedestrian ways and turn movements difficult.			

**Intersection Deficiencies**

Please provide a brief description of the existing intersection deficiencies and associated safety concerns, including time of concerns (day of the week/hour/season/weekday/weekend/holiday).

The geometric design does not accommodated functional and safe turning movements. Pedestrian facilities are not adequate and a significant number of citizens use this intersection crossing. Existing utility features make for challenging design solutions – some utilities will need to be moved.

The intersection serves to access to a major retail area and the City’s Community Center and Pool. Peak traffic volumes are experienced on weekdays (morning/afternoon) when school is in session. However, weekend traffic volumes during the summer season, which are generated by the retail businesses and summer visitors, is also very high.

