

Del Norte LTC September 18, 2008

Del Norte Routes 197 and 199

The following is intended to provide information regarding the recent Safety Analysis and ongoing projects performed by Caltrans that are intended to improve Routes 197 and 199 in Del Norte County.

Safety Analysis

A safety analysis was performed for the proposed STAA truck routes in Del Norte County on Routes 197 and 199. The time period analyzed was from October 1, 2002 to September 30, 2007. The entire Highway 197 Route was studied from PM 0.0 to PM 7.08. To facilitate the analysis on Route 199, segments were identified by Del Norte Local Transportation Commission Executive Director Tamara Buchanan and Caltrans Traffic Safety Chief, Ralph Martinelli.

The segments analyzed were:

- DN 197 PM 0.00 (Junction Route 199) to 7.08 (Junction Route 101)
- DN 199 PM 4.37 (Junction Route 197) to 7.19 (South Fork Road)
- DN 199 PM 7.19 (South Fork Road) to 13.04 (Gasquet Flat Road)
- DN 199 PM 13.04 (Gasquet Flat Road) to R 21.98 (Patrick Creek Campground)
- DN 199 PM R21.98 (Patrick Creek Campground) to 25.65 (North of Siskiyou Fork Road)
- DN 199 PM 25.65 (North of Siskiyou Fork Road) to 36.41 (Oregon State Line)

Our strategy was to review all collisions and then focus on collisions with the primary collision factor of “Speeding”. These were plotted on aerial photographs creating a “Pin Map”, or visual illustration of the collisions that occurred within each segment.

In order to focus our efforts at locations of greatest need, the locations with the most collisions were noted as high collision concentration locations. Each location that was listed as a concentration location was reviewed. This review included examination of the collision details. Any patterns or commonalities between collisions were recorded. Previous Traffic Safety Investigations that were done for the location were also reviewed.

Del Norte LTC Routes 197 and 199

Some locations have improvements or will have improvements constructed are listed in Table 1. As a result of this analysis Table 2 identifies locations for proposed improvements.

Table 1. Concentration Locations with Planned or Existing Improvements

| Route | Begin PM | End PM | Improvement |
|--------------|-----------------|---------------|---|
| 197 | R0.01 | 0.01 | Signing Improvement Complete 2005 |
| 199 | 8.25 | 8.27 | NB Signing Improvement (Chevrons and Curve Warning Sign) Installed 2007 |
| 199 | 9.21 | 9.36 | OGAC Project Begins 2008 PM 9.10 to 9.50 |
| 199 | 11.01 | 11.08 | Hardscrabble Creek Bridge Replacement Began 2007 |
| 199 | 27.05 | 27.10 | Idlewild Curve Realignment PM 27.00 to 27.50 Began 2006 |
| 199 | 27.33 | 27.37 | Idlewild Curve Realignment PM 27.0 to 27.50 Began 2006 |

Table 2. Locations with Recommended Improvements

| Route | Begin PM | End PM | Recommendation |
|--------------|-----------------|---------------|--|
| *197 | 5.63 | 5.95 | Install Metal Beam Guardrail |
| 199 | 7.72 | 7.75 | Install Southbound Signs at Curve (Chevrons) PM 7.73 to 7.61 |
| 199 | 10.48 | 10.49 | Install Southbound Curve Warning Sign for 40 MPH |
| 199 | 11.40 | 11.42 | Add Chevron @ 11.40 and relocate curve warning sign after second chevron |
| *199 | 23.13 | 23.30 | Install Metal Beam Guardrail |

*Work to be initiated through the project development process.

STAA Projects

In addition there are other projects that are planned to improve the existing facilities. Some of these projects will enable STAA Truck access as well as improve the roadway for all users, Table 3. These projects have an anticipated begin construction date of June 2011 and an estimated completion date of June 2013.

Table 3. STAA Projects on DN 197 and 199

| EA | Route | Begin PM | End PM | Description |
|-----------------|------------|--------------|--------------|--|
| 01-45490 | 197 | 3.70 | 4.00 | Widen Roadway |
| 01-48110 | 197 | 4.50 | 4.50 | Widen Roadway |
| <u>01-47940</u> | <u>199</u> | <u>20.50</u> | <u>25.50</u> | |
| | | 20.30 | 20.60 | Widen Lanes and Shoulders and Add Retaining Wall |
| | | 23.90 | 24.30 | Widen Lanes and Shoulders, Replace Bridge, |
| | | 25.40 | R25.7 | Realign Curve |
| 01-45000 | 199 | 22.70 | 23.00 | Widen Road and Shave Rock |
| 01-44830 | 199 | 26.30 | 26.50 | Widen Left Shoulder |

Current Projects

Projects that are currently planned and funded are shown in Table 4.

Table 4. Current Projects on DN 197 and 199.

| EA | Route | Begin PM | End PM | Description | Begin Construction | Anticipated Completion |
|----------|---------|----------|--------|--|--------------------|------------------------|
| 01-48100 | 199 | 9.10 | 9.50 | Open Graded Asphalt Concrete (OGAC) and Replace Culvert | September 2008 | December 2009 |
| 01-29314 | 199 | 10.90 | 11.20 | Replace Hardscrabble Bridge | May 2007 | September 2009 |
| 01-46830 | 199 | 13.00 | 14.30 | Gasquet Resurface and Restripe | September 2007 | August 2008 |
| 01-48270 | 199 | R18.30 | R18.60 | Cable Mesh Drapery System | January 2011 | October 2011 |
| 01-46410 | Various | NA | NA | Reconstruct and Upgrade MBGR Various Locations in Del Norte County | December 2009 | June 2011 |
| 01-40960 | 199 | 27.00 | 27.50 | Curve Realignment | April 2006 | October 2009 |

Recently Completed Projects

Since 2000 the following projects have been completed on Del Norte 197 and 199, Table 5.

Table 5. Completed Projects on Del Norte 197 and 199 since 2000.

| EA | Route | Begin PM | End PM | Description | Complete |
|-----------|-------|----------|--------|-------------------------------------|---------------|
| 01-407804 | 197 | 0.00 | 7.10 | Seal Coat | July 2000 |
| 01-404814 | 197 | 0.80 | 4.00 | Construct Six Turnouts | July 2007 |
| 01-264104 | 197 | 5.80 | 6.00 | Rock Slope Protection | October 2002 |
| 01-457404 | 199 | 0.21 | 34.44 | Replace MBGR Elements | June 2005 |
| 01-425804 | 199 | 0.50 | 7.10 | Treat Bridge Deck | August 2001 |
| 01-378304 | 199 | 0.50 | 36.40 | AC Overlay At Various Locations | February 2002 |
| 01-439905 | 199 | 0.80 | 1.20 | Centerline Rumble Strip | June 2003 |
| 01-344914 | 199 | 3.00 | 32.90 | Culvert Rehabilitation | October 2002 |
| 01-40380 | 199 | 3.00 | 35.00 | Construct Turnouts | August 2008 |
| 01-410004 | 199 | 7.50 | 7.60 | Sidehill Viaduct | June 2005 |
| 01-408514 | 199 | 7.69 | 27.07 | Install Guardrail | August 2000 |
| 01-422405 | 199 | 8.20 | 8.30 | Scenic Barrier Wall | August 2002 |
| 01-384704 | 199 | 12.80 | 12.90 | Extend RCB and Widen Shoulders | November 2003 |
| 01-46830 | 199 | 13.00 | 14.30 | Gasquet Resurface and Restripe | August 2008 |
| 01-426504 | 199 | 21.60 | 21.60 | Slipout/Retreat | February 2001 |
| 01-442704 | 199 | 21.98 | 24.08 | Stabilize Slope, Replace Culverts | December 2002 |
| 01-425304 | 199 | 22.70 | 23.00 | Remove Rock Outcroppings | January 2002 |
| 01-399504 | 199 | 23.60 | 24.00 | Widen Turnouts and Replace Culverts | November 2006 |
| 01-417404 | 199 | 23.90 | 24.20 | Place Open Graded AC | July 2000 |
| 01-407105 | 199 | 24.10 | 24.20 | Curve Realignment | April 2002 |
| 01-405404 | 199 | 26.10 | 26.30 | Widen Left Shoulder | November 2002 |
| 01-385804 | 199 | 26.70 | 26.90 | Curve Realignment | October 2001 |
| 01-417504 | 199 | 27.00 | 27.50 | Place Open Graded AC | June 2000 |
| 01-435204 | 199 | 27.50 | 28.50 | Remove Slide/Reopen Highway | December 2002 |
| 01-375634 | 199 | 33.30 | 33.30 | Rehab Roadside Rest Area | January 2007 |