
Bridge Design Speed Investigation

850202

Structure #202 on SR 1338 (Hidden Valley Road) over Creek

Surry County



Document Prepared By:

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Traffic Engineer



Bridge and Approach Investigation Checklist

Project 13191

Description Bridge # 202 over Creek

Route SR 1338 (Hidden Valley Road)

Division 11

County Surry

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 50

Speed Data 45-50 mph

Ball Bank Speed Study 35 mph: NB Approach - 8, NB Departure - 4, SB App - 5, SB Dep - 6
40 mph: NB App - 10, NB Dep - 9, SB App - 10, SB Dep - 10
45 mph: NB App - 15, NB Dep - 11, SB App - 12, SB Dep - 14

Warning Signs at Bridge 4x Bridge End Delineators, 2x Weight Limit (15 ton)

Roadside Development Residential, Farm

ADT History 590 vpd (From NCDOT TEAAS); 340 vpd (2000)

Pedestrian/Bicycle Traffic Minimal Expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 8.5 ft

Approach Shoulder Width: 4-6 ft
Shoulder Type grass

Lane Width (existing bridge) 9 ft

Shoulder width (existing bridge) 2.5-3.5 ft (~24 ft total width)

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section SR 1338 is classified as a rural local facility in the Statewide Functional Classification System. 2-lane cross-section recommended.

Crash History and Safety Considerations Crash analysis completed for 7/1/2003 to 6/30/2013. No collisions reported.

Comments Reasonable bridge speed 50 mph due to curves on both sides of bridge.

Reasonable Bridge Speed 50

Investigated by: J. Andrew Eagle, PE, PTOE

Reviewed by: 

County: Surry

Bridge and Route: 850202 – SR 1338 Hidden Valley Rd.
Northbound

Date: 9/17/13

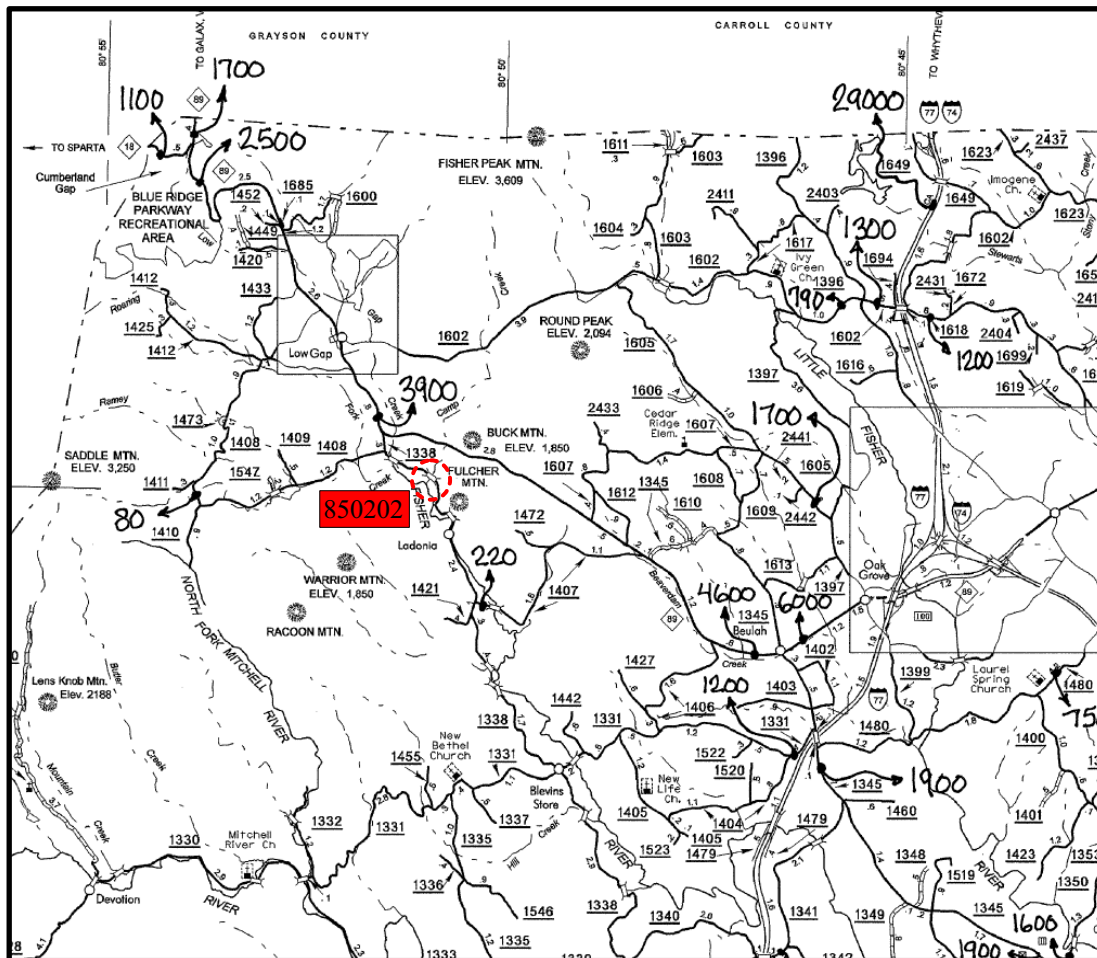


Southbound



Southbound





Bridge Location Map - Bridge #850202

