
Bridge Design Speed Investigation

850019

Structure #19 on SR 1307 (Mountain Park Road) over S. Fork Mitchell River

Wilkes County



Document Prepared By:

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Project Manager

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Principal Investigator

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Traffic Engineer



Bridge and Approach Investigation Checklist

Project W02881

Description Bridge # 19 over S. Fork Mitchell River

Route SR 1307 (Mountain Park Road)

Division 11

County Surry

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 40

Speed Data Estimated 40-50 mph

Ball Bank Speed Study 40 mph: NB - 12, SB - 9 - Readings for curve south of bridge
45 mph: NB - 15, SB - 11 - Bridge speed good at 40 mph per BBI
50 mph: NB - 17, SB - 14

Warning Signs at Bridge 4x Bridge End Delineators, 2x Weight Limit (24 ton SV, 30 ton TTST),
2x Winding Road

Roadside Development Farm, Wooded

ADT History 1300 vpd (From NCDOT TEAAS); 1100 vpd (2011)

Pedestrian/Bicycle Traffic Minimal Expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 10.5 ft

Approach Shoulder Width: 4-6 ft
Shoulder Type grass

Lane Width (existing bridge) 9.5 ft

Shoulder width (existing bridge) 2-4 ft (~25 ft total width)

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section SR 1307 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 40 mph due to curve south of bridge.

Reasonable Bridge Speed 40

Investigated by: J. Andrew Eagle, PE, PTOE

Reviewed by: 

County: Surry

Bridge and Route: 850019 – SR 1307 Mountain Park Rd.

Date: 9/10/13

Northbound



Northbound



Southbound



Southbound





