



Montana Department of Transportation

PO Box 201001
Helena, MT 59620-1001



Memorandum

To: Dustin Rouse, P.E. - Engineering
Preconstruction Engineer
From: Damian Krings, P.E.
Road Design Engineer
Date: February 25, 2019
Subject: STPS 203-1(15)
North of Stevensville - North
UPN 6138000
Work Type 140 - Reconstruction - without added capacity

RECEIVED
MAR 05 2019
Ravalli County Commissioners
Copied to Rd Dept

The Scope of Work Report for this project was released on 1/31/2019.

Attached are approvals and concurrence from Ed Toavs, Chris Hardan (for Stephanie Brandenberger), Patricia Burke (for Roy Peterson), David Hoerning (for Rob Stapley), Paul Johnson (for Lynn Zanto), Steve McEvoy (for Kevin Christensen), Jeff Jackson, Jon Swartz, and Tom Martin.

Comments were received from Patricia Burke and Jeff Jackson.

Patricia Burke

Typicals -

- Standard turn bay width for right turns require 22 feet of widening (12' for travel lane, 10' for offset for proper sight distance and safety).
Minimum turn bay length for right turn lane is 716 feet depending on design and sight distance, This includes 500' for deceleration at 60mph design speed and auxiliary lane shift.

Response: So noted. The report has been revised to address these comments.

Jeff Jackson:

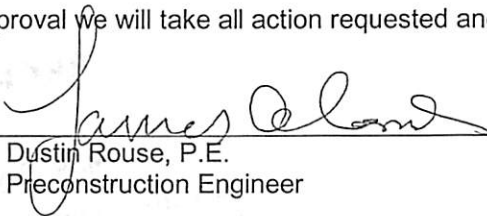
Materials Bureau concurs subject to the following comments:

The scope of work report indicates that right of way acquisition with some parcels may be contentious and retaining walls or other mitigation may be required and need to be designed during the right of way acquisition phase.

It is important to reiterate that while it is possible to add a structure(s) at this stage of a project, retaining walls are required to be designed in accordance with AASTHO LRFD specifications. These specification are significantly more stringent than criteria for a more routine slope design. Thus, this will require additional subsurface investigations, laboratory testing, and extensive engineering design work. Should this need to occur, there is a high probability that performing this work (which would be subject to possible weather delays, landowner access issues, permitting, availability of resources, etc.) at that stage of project development could delay the project schedule and will certainly add cost. Determination of the need for these structures should occur as soon as reasonably possible to help mitigate this concern. Alternatively, an approach that assumes retaining walls will be required in certain areas can be pursued, but this will require PE expenditures that may ultimately not be necessary.

Response: Road Design will collaborate with Geotech to identify the parcels that appear to pose the highest risk for retaining wall mitigation. We will encourage Right-of-Way staff to prioritize negotiations with those parcels.

With your approval we will take all action requested and proceed with the design accordingly.

Approval  Date 2/28/19
Dustin Rouse, P.E.
Preconstruction Engineer

Attachments: for Master File copy only (approvals and concurrence)

Distribution (without attachments):

- ✓ Ed Toavs, Missoula District Administrator
- ✓ Stephanie Brandenberger, Bridge Engineer
- ✓ James A. Combs, Highways Engineer
- ✓ Roy Peterson, Traffic and Safety Engineer
- ✓ Robert Stapley, Right-of-Way Bureau Chief
- ✓ Lynn Zanto, Rail, Transit, & Planning Division Administrator
- ✓ Kevin Christensen, Construction Engineer
- ✓ Jeff Jackson, Acting Materials Engineer
- ✓ Jon Swartz, Maintenance Administrator

Distribution (electronic only)

- ✓ Tom Martin, Environmental Services Bureau Chief

cc:

W. M. Squires, EPS Project Manager, Missoula District

Ravalli County Commissioners
215 S. 4th Street, Suite A
Hamilton, MT 59840

e-copies:

Dustin Rouse, Preconstruction Engineer

Bill Squires, Acting Highways Design Engineer
Dave Hedstrom, Hydraulics Engineer
Bryce Larsen, Supervisor, Photogrammetry & Survey
Danielle Bolan, Traffic Operations Engineer
Ivan Ulberg, Traffic Design Engineer
Patricia Burke, Safety Engineer
Chad Richards, Engineering Cost Analyst
Nathan Haddick, Bridge Design Engineer
Jan Nessel, Public Involvement Officer
Sue Sillick, Research Section Supervisor
Lisa Hurley, Fiscal Programming Section
Jeff Nehring, Engineering Division
Joe Radonich, Remediation and Assessment
Andrew White, Acting Secondary Roads Engineer
Sheila Ludlow, Bicycle/Pedestrian Coordinator
Mike Carlock, Archeologist
Mary Gayle Padmos, PvMS Unit Engineer

Jake Goettle, Engineering Construction Contracting Bureau Chief

Gabe Priebe, Utilities Engineering Manager
David Hoerning, Lands Section Supervisor
Jerilee Weibel, Acquisition Section Supervisor

Joe Zody, RW Access Management Section Manager

Paul Johnson, Project Analysis Bureau
Jim Davies, Pavement Analysis Engineer
Miles Yerger, Surfacing Design Supervisor
Jeff Jackson, Geotechnical Engineer
Dawn Stratton, Fiscal Programming Section

Jean Riley, Planner
Tom Gocksch, ESB, Engineering Section Supervisor
Tom Martin, Environmental Services Bureau Chief
Damian Krings, Road Design Engineer
Jon Axline, Historian
Bill Semmens, ESB, Resource Section Supervisor
Darin Reynolds, Construction Bureau – VA Engineer
Vacant, Reclamation Specialist

Ed Toavs, District Administrator
Steve Felix, Maintenance Chief (Missoula)

Shane Stack, Preconstruction Engineer
Mike Dodge, Materials Lab
Robert Vosen, Construction Engineer
Maureen Walsh, Right of Way Supervisor
Ben Schendel, Hydraulics Engineer
Scott Gerken, Traffic Project Engineer
Joe Wiegand, Biologist
Benjamin Nunnallee, Projects Engineer
Patricia Hogan, District Utility Agent
Steve McEvoy, Constructability Reviewer

Vacant, Right of Way Design Supervisor
Donny Pfeifer, Construction Ops Engineer
Christopher Hardan, Bridge Area Engineer
Bret Boundy, Geotechnical Manager
Susan Kilcrease, Project Development Engineer
Pat Metzger, District MCS Captain
vacant, Surfacing Design