Montana Department of Transportation
PO Box 201001
Helena, MT 59620-1001

Memorandum

To: Distribution

From: Paul Ferry, P.E.
Highways Engineer

Date: June 11, 2008

Subject: Plant Mix and Aggregate Treatment Changes

Attached is a memo from Matt Strizich discussing changes to Plant Mix. The biggest changes are that Grade S Volumetric Plant Mix will be used on all projects with a plant mix quantity of 8,000 tons or more and Commercial Mix will be used on all projects with a plant mix quantity less than 8,000 tons. Grade D Commercial Plant Mix no longer exists as a bid item. The memo also describes the modifications to the plans and special provisions that will be needed as a result of these changes in the use and specification of the types of plant mix.

As a point of clarification, Aggregate Treatment will be measured and paid by the square yard (square meter) for both Grade S Plant Mix and Commercial Mix. The quantities for Aggregate Treatment will be shown in the surfacing summary.

These changes will be incorporated into all projects beginning wit the August 2008 letting.

If you have questions concerning this, please contact me at 444-6244.

Pf.

Attachment

Distribution:

Lesly Tribelhorn,	Highways Design Engineer	w/attachment
Damian Krings,	Road Design Engineer	"
Duane Williams	Traffic & Safety Engineer	"
Tim Conway,	Acting Consultant Design Engineer	"
Lisa Durbin,	Construction Administration Services Engineer	"
Paul Jagoda,	Construction Engineering Services Engineer	"
Suzy Price,	Supervisor – Contract Plans Bureau	"
Jim Frank,	Glendive District Engineering Services Supervisor	"
Gary Neville,	Billings District Engineering Services Supervisor	"

Joe Olsen,	Butte District Engineering Services Supervisor	w/attachment
Shane Stack,	Missoula District Engineering Services Supervisor	“
Steve Prinzing,	Great Falls District Engineering Services Supervisor	“
John Cornell,	Road Plans Checker	“
Kevin Farry,	Road Plans Checker	“
Chris Clearman	Contract Plans Bureau	“
Bryan Vieth	Consultant Design	“

Montana Department of Transportation	Date Issued: 6/6/08
	Date Effective: 6/6/08
CONSTRUCTION MEMO	Related Specifications:
Subject: Plant Mix Special Provisions	

To: Distribution

From: Matthew R. Strizich, P.E.
Materials Engineer

The standard Special Provisions covering plant mix used on MDT projects have recently been revised. These changes are outlined below, along with guidance on necessary plan revisions. The new Special Provisions are effective for all projects starting with the August 2008 letting.

- The Grade S Volumetrics special provision has been revised. Grade S plant mix and this special provision should be used on all projects with a plant mix plan quantity of more than 8,000 tons. Under no circumstances should it be used on projects with a plan quantity of less than 8,000 tons.

- A new Commercial Mix special provision has been developed. The new special provision replaces the Grade D Commercial Tested, Grade D Commercial Non-tested, and Grade S Non-Volumetrics specials currently being used. This special should be used on all projects with a plan quantity of less than 8,000 tons. It can also be used on projects with over 8,000 tons when warranted by the specifics of the project, although Grade S Volumetrics is preferred.

No plan changes will be required with the new Grade S Volumetrics special provision. Projects with more than 8,000 tons of plant mix that currently specify Grade S Non-volumetrics, will need to be changed to Grade S Volumetrics.

Commercial Mix will require the following:

- Select the appropriate bid item based on the PG binder recommendation from Surfacing Design. The following options are available.

  English
  - 401020021 Ton Commercial Pl Mix – PG 70-28
  - 401020022 Ton Commercial Pl Mix – PG 64-28
  - 401020023 Ton Commercial Pl Mix – PG 58-28

Metric

- 401020505 Ton Commercial Pl Mix – PG 70-28
- 401020506 Ton Commercial Pl Mix – PG 64-28
- 401020507 Ton Commercial Pl Mix – PG 58-28

- The Plant Mix heading shown in the surfacing frame should match the bid item selected for the job. Include the PG binder grade.

- Include the following in the basis of plan quantity when Commercial Mix is specified.
  - Asphalt Cement – Grade S ¾" Agg 5.4%
  - Asphalt Cement – Grade S ½" Agg 5.8%
  - Asphalt Cement – Grade D 6.0%
  - Hydrated Lime 1.4%
  - Tack (asphalt surfaces) 0.025 gal per sq. yard (undiluted)
  - Tack (all other surfaces) 0.050 gal per sq. yard (undiluted)

- Do not show estimated quantities in the surfacing frames for the following items:
  - Hydrated Lime
  - Asphalt Cement
  - Tack

  NOTE: Quantities for Hydrated Lime and Asphalt Cement should still be shown when associated with Grade S Volumetric Plant Mix Surfacing.

- Eliminate the columns for asphalt cement and tack currently shown in the Quantities frames shown under each typical section. NOTE: Quantities for Asphalt Cement should still be shown when associated with Grade S Volumetric Plant Mix Surfacing.

- Do not show estimated approach quantities in the Notes section for the following items:
  - Asphalt Cement
  - Tack

  NOTE: Quantities for Asphalt Cement should still be shown when associated with Grade S Volumetric Plant Mix Surfacing.

- A separate special provision eliminating acceptance testing on the commercial mix will be available. Districts will choose whether to exclude testing on the Commercial Mix on the questionnaire sent out by Contract Plans prior to advertising.

Distribution:

Loran Frazier, PE – Chief Engineer
District Administrators
Kevin Christensen, PE – Construction Engineer
Jim Walther, PE – Preconstruction Engineer
Paul Ferry, PE – Highways
District Preconstruction Engineers
District Construction Engineers
Engineering Project Managers
Suzy Price – Contract Plans
Chris Clearman – Contract Plans
Lisa Durbin, PE – CAS Bureau
Dan Smith, PE – Specifications
Scott Barnes, PE – Testing Engineer
Dan Hill, PE – Surfacing Design Engineer