



# MONTANA FISH, WILDLIFE & PARKS

## ADDENDUM NO. 3

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TO: ALL BIDDERS OF RECORD

PROJECT: Tongue River Reservoir State Park shoulder Gravel and Chip Seal

FWP PROJECT #: 7216320

DATE: 3/15/23

FROM: Kevin Harrington, Construction Project Manager

**Acknowledge receipt of this addendum by inserting its number and date in the Proposal Form and on the Bid Envelope. Failure to do so may subject bidder to disqualification.**

This Addendum forms a part of the Contract Documents. Clarification and/or modifications area as follows:

- **REMOVE:** In special provision section requirement for use of backer rods for cracks greater than 1.5" and replace with the use of Craftco Mastic one poly modified binder or approved equal.
- **Replace existing proposal sheet with new one attached with adjust quantities to reflect the elimination of the backer rods.**

**END OF ADDENDUM NO. 3**

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 www.crafco.com

**READ BEFORE USING THIS PRODUCT**

**GENERAL** Mastic One is a hot applied, pourable, aggregate filled, black color, polymer modified asphalt pavement repair mastic. Mastic One is used for sealing, filling and repairing many distresses in both asphalt concrete and portland cement concrete pavements and bridge deck surfaces that are larger than those typically repaired by crack or joint sealing, but smaller than repairs requiring remove and replace patching procedures. Typical uses include sealing, filling and leveling of wide transverse or longitudinal cracks and joints, filling potholes and utility cuts, localized skin patch repairs, repairs prior to surface treatments, and leveling bridge approaches or faulted areas. When properly applied, Mastic One forms a well bonded, flexible, durable, traffic resistant repair. To use, Mastic One is placed into an appropriate melter (Crafco Patcher I or II), mixed and heated until application temperature is reached, poured into the prepared repair area and then leveled. Mastic One is formulated to provide neat feathered edge installation. Mastic One is then ready for traffic when it has cooled and solidified. VOC = 0 g/l.

**PROPERTIES** Properties of the binder, aggregate and appropriately blended and heated Mastic One are as follows:

<u>Property</u>	<u>Requirement</u>
<b>POLYMER MODIFIED BINDER</b>	
Cone Penetration, 77°F (25°C) (ASTM D5329)	60 max
Cone Penetration, , 122°F (50°C) (ASTM D5329)	120 max
Softening Point, (ASTM D36)	200°F (93°C) min
Flexibility, 1" (25.4 mm), 90°, 2 sec) (ASTM D3111 modified)	Pass at -15°F (-26°C)
<b>AGGREGATE</b>	
Abrasion Resistance (ASTM C131)	35% max
<b>BLENDED PRODUCT</b>	
Flexibility, 32°F (0°C) (ASTM D5329)	Pass
Adhesion, 77°F (25°C) (ASTM D5329)	25 PSI (172 KPA) min
Specific Gravity	1.7 -2.0
Minimum Application Temperature	375°F (190°C)
Maximum Application Temperature	400°F (204°C)

Note: Due to unique properties of Mastic One, modified test procedures are required. Test methods PTM 3, 4 are available from Crafco

**INSTALLATION** The density of Mastic One is 116 pcf (+/- 3%) and the weight per gallon is 15.5 lbs./gal (1.86 kg/l) at 60°F (15.5°C). Prior to use, the user must read and follow Installation Instructions for Mastic One to verify proper product selection, heating methods, pavement preparation procedures, application geometry, usage precautions and safety procedures. These instructions are available at www.crafco.com and provided with each pallet of Mastic One.

**PACKAGING** Mastic One is supplied in either cardboard boxes, or in meltable, box less PLEXI-melt packaging. Each package contains premeasured polymer modified binder and aggregate. Both package types are labeled in accordance with OSHA, GHS, and specification requirements; are sold by net weight; are interlock stacked on 48 x 40 in. (122 x102 cm) 4-way pallets; can be stored outside; and are covered with a weather resistant pallet cover and 2 layers of UV protected stretch wrap.

- o **BOX** packaging consists of cardboard boxes containing approximately 40 lb. (18.1 kg) of product with 60 boxes per pallet, weighing approximately 2400 lb. (1088 kg). Boxes contain a quick melting release film for easy removal and are taped closed, without any staples.
- o **PLEXI-melt** packaging consists of 30 lb. (13.6 kg) blocks of product with 70 packages per pallet, weighing 2100 lb. (952 kg). To use, the pallet wrap is removed, and individual blocks are placed in the melter. There are no cardboard boxes or other cardboard components to open, empty, handle, or dispose of. PLEXI-melt packaging quickly melts into the product without affecting specification conformance.

**WARRANTY** CRAFCO, Inc. warrants that CRAFCO products meet applicable ASTM, AASHTO, Federal or State specifications at time of shipment. Techniques used for the preparation of the cracks and joints prior to sealing or filling are beyond our control as are the use and application of the products; therefore, Crafco shall not be responsible for improperly applied or misused products. Remedies against Crafco, Inc., as agreed to by Crafco, are limited to replacing nonconforming product or refund (full or partial) of purchase price from Crafco, Inc. All claims for breach of this warranty must be made within three (3) months of the date of use or twelve (12) months from the date of delivery by Crafco, Inc. whichever is earlier. There shall be no other warranties expressed or implied. For optimum performance, follow Crafco recommendations for product installation.

**PROPOSAL**

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FWP# 7216320

**Montana Fish, Wildlife & Parks  
Design and Construction  
PO Box 200701  
1522 Ninth Avenue  
Helena, Montana 59620-0701**

The undersigned, having familiarized themselves with the conditions of the work and the contract documents as prepared by: **Kevin Harrington, FWP, Design and Construction 1522 East 9<sup>th</sup> Ave. Helena, Montana 59601; Phone (406) 841-4002**, agrees to furnish all labor, materials, equipment, and services necessary to complete all general construction work, as bid herein, for a project entitled **TONGUE RIVER STATE PARK SHOULDER GRAVEL AND CRACK SEAL**, in accordance with the Contract Documents including all Addenda. The bidder agrees to perform all the work described below at the price shown as follows:

**Reminder to Contractors: All Unit Prices must be filled in on the Bid Form for a valid bid (18-2-303 MCA).**

**Base Bid: TONGUE RIVER STATE PARK SHOULDER GRAVEL AND CRACK SEAL**

Item #	Description	Estimated Quantity	Unit Measure	Unit Price	Amount
1	Mobilization, Insurance, and Bonding	1	LS		
2	Crack Seal	4000	LB		
3	¾" Crushed Shoulder Gravel, delivered, Placed, Tamped	160	CY		
<b>TOTAL:</b>					

**BASE BID:** \_\_\_\_\_

\_\_\_\_\_ AND \_\_\_\_\_ /100 DOLLARS (\$ \_\_\_\_\_).

Contractor Name: \_\_\_\_\_

And certifies that he is a duly and regularly licensed contractor registered with the  
Montana Department of Labor and Industry:

Contractor Name: \_\_\_\_\_

FIRM NAME: \_\_\_\_\_

TELEPHONE #: \_\_\_\_\_ FAX#: \_\_\_\_\_

BY: \_\_\_\_\_

REGISTRATION # : \_\_\_\_\_

BUSINESS ADDRESS: \_\_\_\_\_

\_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

This bidder acknowledges receipt of the following addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

Contractor Name: \_\_\_\_\_