


ADDENDUM NO. 1

Sedgwick County Project: 2013 Bituminous Frictional Seal (R175-K)

The items contained herein now become a part of the referenced plans and specifications. Please read the following items and acknowledge receipt of this addendum on the Proposal Page Number P-1. NOTE: THIS ADDENDUM MUST BE ACKNOWLEDGED TO CONSTITUTE A VALID BID.

SPECS:

Eliminating specification for Thermoplastic Pavement Marking and replacing it with Extended Wear Water-Borne Traffic Line Paint.

By: 
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Public Works/County Engineer

Date: March 12, 2013

SPECIAL PROVISION

EXTENDED WEAR WATER-BORNE TRAFFIC LINE PAINT

- 1.0 DESCRIPTION:** This special provision covers the requirements for extended wear water-borne traffic Line paint for Sedgwick County, Kansas. Sedgwick County reserves the right to waive minor technicalities under this specification.

The material will be used to paint lane lines, center lines, edge lines and no-passing lines, in conjunction with glass beads, for applications on bituminous or Portland cement concrete pavements.

BID ITEM: Pavement Marking (Paint) (White or Yellow)

2.0 CLASSIFICATION

The paint shall consist of acrylic resin, lead-free pigments, dryers, water as solvent and sufficient pigment suspending agents to insure soft settlement during storage.

3.0 MATERIALS

The material shall be applied with department-owned spray equipment at application temperatures of 50° F to 150° F. The paint shall be furnished in white and yellow as indicated on the proposal.

The paint supplied shall be from freshly prepared stock and shall be formulated and manufactured from first grade materials. The paint shall be a fast-drying, water base, acrylic resin type paint capable of withstanding air and roadway temperatures without bleeding, staining, discoloring, or deforming. The dried film shall be capable of maintaining its original dimensions and placement without chipping, spalling, or cracking. In addition, it shall not deteriorate because of contact with sodium chloride, calcium chloride, mild alkalies and acids, or other ice control materials, oil, gasoline, or diesel fuel droppings from vehicles.

3.1 Composition

The pigment of the Yellow paint shall consist of the following for each 100 gallons of paint:

- A. 30 lbs. of approved Hansa Yellow
- B. 17 lbs. of Rutile Titanium Dioxide
- C. Other such extender pigments as necessary to produce a close match to the yellow color requirement.

The resin for both White and Yellow paint shall be composed of 100% Rohm and Hass HD-21 acrylic resin.

3.2 Color

Yellow paint shall meet the following chromaticity requirements:

Color	1		2		3		4	
	X	Y	X	Y	X	Y	X	Y
Yellow	.475	.450	.490	.433	.495	.475	.520	.450

Yellow paint must display a nighttime presence of yellow when viewed from automobile headlights.

White paint shall be pure white (free of tint)

3.3 Properties

- 3.3.1 Dry to No Track Time: Maximum 5 minutes when tested according to Kansas Department of Transportation test method for water-borne traffic paint KT-MR 12.
- 3.3.2 Consistency (viscosity): the consistency shall not be less than 75 or greater than 90 K.U. as determined by ASTM D56.
- 3.3.3 Fineness of Grind: The fineness of grind shall be no less than 3 Hegman units when tested according to ASTM D1210.
- 3.3.4 Dry Opacity: Contrast ratio shall be not less than .96 when the paint is applied with 0.012 inch film applicator. Dry Opacity will be determined according to method 4121.1, Federal Test Method Standard No. 141c. Application of the paint shall be with the above applicator to the chart specified in Section 1.1 of Method 4121.1.
- 3.3.5 Daylight Reflectance: The Daylight Reflectance of the white paint shall not be less than 80% relative to magnesium oxide when tested according to ASTM E1347.

4.0 MANUFACTURER REQUIREMENTS

The manufacturer of the paints supplied under this specification shall have at least 5 years experience with the Rohm and Hass HD-21 acrylic resin and shall have produced at least one million gallons of extended wear paint using the resin. Proof of meeting these requirements shall be provided upon request by Sedgwick County.

5.0 BASIS OF ACCEPTANCE

Acceptance of material furnished under this specification will be based on the following:

1. Receipt and approval of a certification stating that the paint complies with provisions of this special provision.

2. Receipt of a material safety data sheet prior to or at the time of delivery of the shipment of the paint.

6.0 BASIS OF PAYMENT

Payment for all items shall be at the lump sum or linear foot price bid for Pavement Marking (Paint) (White or Yellow).