

MOBILE COUNTY COMMISSION

205 Government Street
 Mobile, Alabama 36644
 PO BOX 1443
 Mobile, AL 36633

BID INVITATION

NO. 59-10

AUGUST 16, 2010

In accordance with General Act No. 217, Special Session 1967, notice is hereby given that the Mobile County Commission, Mobile, Alabama, will receive bids on the following items:

ANNUAL DURABLE RETRO-REFLECTIVE PREFORMED PAVEMENT MARKING MATERIALS BID FOR MOBILE COUNTY PUBLIC WORKS DEPARTMENT AS PER ATTACHED SPECIFICATIONS:

NOTE: PRICES MUST REMAIN FIRM FROM OCTOBER 1, 2010 THROUGH SEPTEMBER 30, 2011. Any questions or comments concerning the bid requirements must be brought to the attention of the Purchasing Agent, Susan Molland, 251-574-8613, 205 Government Street, 8th floor south, Mobile, Alabama 36644, to or at bid opening or will be forever waived.

All bidders shall furnish a five (5%) percent bid bond on any contract exceeding \$10,000: provided, that bonding is available for services, equipment or materials. Out of State Corporations shall furnish a Certificate of Authority to transact business in the State of Alabama. Out of State limited liability companies shall proof of registration to transact business in this state.

If applicable to a contract resulting from this invitation, the successful bidder must comply with the Contractor Felony Investigation Policy, available in the Purchasing Department or at mobilecounty.org.

This inquiry is to establish a price and a source of supply for the above listed items by Mobile County Commission and the incorporated areas therein. Purchases by political subdivisions are optional with those agencies.

THE MOBILE COUNTY COMMISSION DOES NOT DISCRIMINATE ON THE BASIS OF RACE, AGE, SEX, NATIONAL ORIGIN, RELIGION, OR DISABILITIES.

F.O.B. Mobile DATE OF DELIVERY _____ TERMS _____ You are invited to bid on the above specifications. The restrictions contained herein are for the purpose of fixing a quality level, and any deviation therefrom must, in detail establish that it meets the quality requirements.

BIDS WILL BE RECEIVED UNTIL 10:00 A.M. September 1, 2010

ALL BIDS MUST BE SEALED, THE WORD "BID", THE BID NUMBER AND THE NAME OF THE ITEM MARKED ON THE OUTSIDE OF THE ENVELOPE. BIDS WILL BE RECEIVED BY THE RECEPTIONIST IN THE OFFICE OF THE COUNTY COMMISSION ADMINISTRATOR, 205 GOVERNMENT STREET ON THE EIGHTH FLOOR OF THE MOBILE COUNTY GOVERNMENT PLAZA. FAILURE TO OBSERVE THE ABOVE INSTRUCTIONS WILL CONSTITUTE GROUNDS FOR REJECTION OF YOUR BID. THE COMMISSION RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS.

MOBILE COUNTY COMMISSION



 JOHN (PAFENBACH) COUNTY ADMINISTRATOR

We propose to meet the above specifications for the sum
 of \$ SEE ATTACHED LIST.
 Delivery can be made in _____ days from receipt of award.
 RESPECTFULLY

BY _____

MOBILE COUNTY COMMISSION

BID FORM

Date: _____

BID #59-10

*ANNUAL DURABLE RETRO REFLECTIVE PREFORMED PAVEMENT MARKING
MATERIALS FOR MOBILE COUNTY PUBLIC WORKS DEPARTMENT:*

Company _____

Company Representative _____

(Print)

Title _____

Company Representative _____

Signature

Address _____

Phone number () _____

Fax number () _____

Federal ID Number _____

BID SPECIFICATIONS FOR
DURABLE RETRO-REFLECTIVE PREFORMED PAVEMENT
MARKING MATERIALS

GENERAL INFORMATION

These specifications are for: Durable, with improved Retro-Reflective pliant polymer materials.

All of the preformed markings shall be capable of being adhered to asphalt, concrete or portland cement by a pre-coated pressure sensitive adhesive. A primer may be used to precondition the pavement surface for some of the material. The bidder shall have available on request all equipment necessary to install materials,

**(there will be no costs associated with this
equipment use, and will not be added as part of
any unit costs in this bid)**

and supply all recommendations for application that will assure the materials shall be suitable for use for one (1) year after date of receipt.

Bidders shall be pre-qualified by Mobile County Traffic Department through the successful testing and/or use of the specified material for a period of at least one (1) year. Exception may be taken by non pre-qualified bidders, (providing with the bid), evidence of the successful application of at least 5000 square feet of material for at least three (3) months within the State of Alabama. All bidders shall show, (in writing and submitted with bid), that their materials have been tested and approved for use on roadways in Alabama by the Alabama Department of Transportation.

Should material failure occur, as in bead retention, surface adhesion, discoloration, etc., when applied in accordance with manufacturer's instructions, the vendor shall replace all such materials in addition to reimbursing Mobile County for all costs involved in removing and re-installation of the defective material.

Materials provided under this bid shall meet or exceed current applicable ITE and FHWA standards as they relate to reflective pavement marking products as well as current ALDOT specifications. In the event of conflict between these specifications and those named above the requirement of these specifications shall prevail.

Any reference to brand names in his specifications is made to aid the Bidder and indicates more clearly the quality desired and is not done to limit or restrict the bidding to any particular brand.

The following materials are based on 3M Company manufacturing standards and are listed by their series number. All bidders shall meet the minimum 3M Company standards and performance life.

Any differences shall be stated in writing and returned as part of the bid package at time of bid.

**SPECIFICATION FOR DURABLE,
RETRO-REFLECTIVE, PREFORMED PAVEMENT MARKINGS
WITH IMPROVED RETRO-REFLECTIVITY RETENTION**

I. MATERIALS - GENERAL

The preformed markings shall consist of white or yellow tapes/films with pigments selected to conform to standard highway colors. These films shall be manufactured free of lead or other heavy metal compounds.

Preformed words and symbols shall conform to the applicable shapes and sizes as outlined in the current *"Manual on Uniform Traffic Control Devices for Streets and Highways"*.

The preformed markings shall be capable of being adhered to asphalt cement concrete or portland cement concrete by a pre-coated pressure sensitive adhesive. A surface preparation adhesive may be used to precondition the pavement surface. The preformed markings shall conform to pavement contours by the action of traffic. The pavement marking shall be capable of application on new, dense and open-graded asphalt concrete wearing courses during the paving operation in accordance with the manufacturer's instructions. After application, the markings shall be immediately ready for traffic. The bidder, shall identify proper surface preparation adhesives (where necessary) to be applied at the time of application, all equipment necessary for proper application, and recommendations for application that will assure effective product performance.

The preformed markings shall be suitable for use for one year after the date of receipt when stored in accordance with the manufacturer's recommendations.

II. CLASSIFICATION

The markings shall be highly durable retro-reflective, pliant polymer materials designed for longitudinal and word/symbol markings subjected to high traffic volumes and severe wear conditions such as shear action from crossover or encroachment on typical longitudinal configurations such as edge and lane lines.

III. REQUIREMENTS

Composition: The retro-reflective pliant polymer pavement markings shall consist of a mixture of high quality polymeric materials, pigments and glass beads distributed throughout its base cross-sectional area, with a reflective layer of microcrystalline ceramic beads bonded to a durable polyurethane topcoat surface. The patterned surface shall have approximately 50% + or - 15% of the surface area raised and presenting a near vertical face to traffic from any direction. The channels between the raised areas shall be substantially free of exposed beads or particles.

Reflectance: The white and yellow markings shall have the following initial expected retro-reflective values as measured in accordance with the testing procedures of ASTM D4061. The photometric quantity to be measured shall be coefficient of retro-reflected luminance (R_L), and shall be expressed as millicandelas per square foot per foot-candle [$(\text{mcd}\cdot\text{ft}^{-2}) \cdot \text{fc}^{-1}$]. The metric equivalent shall be expressed as millicandelas per square meter per lux [$(\text{mcd}\cdot\text{m}^{-2}) \cdot \text{lx}^{-1}$]. The test distance shall be 100ft. (30m).

EXPECTED INITIAL REFLECTANCE

| | <u>WHITE</u> | <u>YELLOW</u> |
|--|--------------|---------------|
| Entrance Angle | 88.8° | 88.8° |
| Observation Angle | 1.05° | 1.05° |
| Specific Luminance | 500 | 300 |
| R_L [$(\text{mcd}\cdot\text{ft}^{-2}) \cdot \text{fc}^{-1}$] | | |

* These retro-reflective values are based on dark room photometric readings per ASTM D4061.

Beads: Index of Refraction: All microcrystalline ceramic beads bonded to the polyurethane-coated, patterned surface of the material shall have a minimum index of refraction of 1.70 when tested using the liquid oil immersion method. The glass beads mixed into the pliant polymer shall have a minimum index of refraction of 1.5 when tested by the liquid oil immersion method.

Acid Resistance: The beads shall show resistance to corrosion of their surface after exposure to a 1% solution (by weight) of sulfuric acid. The 1% acid solution shall be made by adding 5.7cc of concentrated acid into 1000cc of distilled water. The test shall be performed as follows:

Take a 1" x 2" sample, adhere it to the bottom of a glass tray and place just enough acid to completely immerse the sample to be exposed for 24 hours under these conditions. Then decant the acid solution (do not rinse, touch or otherwise disturb the bead surfaces) and dry the sample while adhered to the glass tray in a

150° F. (66° C.) Oven for approximately 15 minutes.

Microscopic examination (20X) shall show no more than 15% of the beads having a formation of a very distinct opaque white (corroded) layer on their entire surface.

Color: The patterned markings shall consist of white and yellow films with pigments selected and blended to conform to standard highway colors.

Skid Resistance: The patterned surface of the retro-reflective pliant polymer shall provide an initial average skid resistance value of 45 BPN when tested according to ASTM E303 except values shall be taken in one direction and then at a 45° angle from that direction. These two values shall then be averaged to find the skid resistance of the patterned surface.

Patchability: The pavement marking material shall be capable of use for patching worn areas of the same type in accordance with the manufacturer's instructions.

Thickness: The patterned material tape/film without adhesive shall have a minimum caliper of 0.065" (1.651mm) at the thickest portion of the patterned cross-section and a minimum caliper of 0.02" (.508mm) at the thinnest portion of the cross-section.

IV. WARRANTY

The manufacturer shall warrant that pavement marking material sold for this application in the United States and Canada will remain effective for its intended use under normal traffic conditions and meet the minimum retained coefficient of retro-reflection value of 100 millicandelas per foot squared per foot-candle (measured at 1.05° observation and 88.7° entrance angles) subject to the following provisions:

| APPLICATION* | WARRANTY |
|-----------------------|----------|
| Longitudinal Markings | 6 years |
| Words and Symbols | 2 years |

* If the markings are applied in accordance with all the manufacturer's application recommendations and fail during the warranty period to retain the minimum reflectance values, fail to adhere to the roadway, or fail due to complete wear-through during the warranty period shown above (from the date of installation), the manufacturer's sole responsibility and purchaser's and user's exclusive remedy shall be:

The manufacturer will provide the replacement materials to restore the marking to its original effectiveness.

DURABLE, WITH IMPROVED RETRO-REFLECTIVITY

The material to be bid on:

**SERIES A380I-ES WHITE & A381I-ES YELLOW
(PATTERNED) (Non-Linered)**

| <u>Width</u> | <u>Length</u> | <u>Unit Price</u> |
|--------------|---------------|-------------------|
| 4" | 30 yd | \$ _____ |
| | 100 Yds | \$ _____ |
| 6" | 30 yd | \$ _____ |
| | 100 Yds | \$ _____ |
| 8" | 30 Yds | \$ _____ |
| 12" | 30 Yds | \$ _____ |
| 24" | 30 Yds | \$ _____ |

3M SERIES 380I-ES WHITE SYMBOLS AND LEGENDS : WITH LINER

| | | |
|---|----------------|----------|
| Straight Arrow | SMS-L380IES-SA | \$ _____ |
| Left Curve Arrow | SMS-L380IES-LA | \$ _____ |
| Right Curve Arrow | SMS-L380IES-RA | \$ _____ |
| "ONLY" | SMS-L380IES-ON | \$ _____ |
| "SCHOOL" | SMS-L380IES-SC | \$ _____ |
| "XING" | SMS-L380IES-XI | \$ _____ |
| "STOP" | SMS-L380IES-ST | \$ _____ |
| "AHEAD" | SMS-L380IES-AH | \$ _____ |
| "R"s | SMS-L80IES-R | \$ _____ |
| Railroad Crossing Pkg. Consisting of 2 "R's"and 1 roll 16" x 42' for "X" | SMS-L380IES-RX | \$ _____ |
| Straight Bicycle Arrow | SMS-L380IES-A6 | \$ _____ |
| Bicycle Symbol (4ft) | SMS-L380IES-K4 | \$ _____ |

Bicycle Symbol (8ft) SMS-L380IES-K8 \$ _____

**3M SERIES 380I-5 ES & 381I-5 ES HIGH
PERFORMANCE CONTRAST MARKING TAPE (PATTERNED)**

| <u>Width</u> | <u>Type</u> | <u>Length</u> | <u>Unit Price</u> |
|--------------|---------------|---------------|-------------------|
| 7" | without liner | 50 yds | \$ _____ |
| 9" | without liner | 50 yds | \$ _____ |

3M Stamark Adhesives

| <u>Type</u> | <u>Unit Price</u> |
|---|-------------------|
| P-50 Surface Preparation Adhesive 5 gal | \$ _____ |

Bids shall be made on a unit cost of each material. Bids can also be made with quantity discounts by giving the minimum quantity of each item and cost per item.

The life of the Contract shall commence upon date of award of bid through September 30, 2011 with the option to issue a second and third 12-month contract under the same pricing, terms and conditions. The second and third contracts, if requested by the County, and agreed upon by the Contractor, would begin the day after the first or second contract expires. Any successive contracts must have written approval of both the County and the Contractor no later than thirty (30) days prior to the expiration of the previous contract.

Shipment of all materials will be to:

Mobile County Traffic Department
Attention: Mr. Tom Hudson
1150 Schillinger Road North
Mobile, Alabama 36608