

4.0 SPECIAL CONDITIONS AND SPECIFICATIONS

4.1 Authorization: By order of the Commissioners' Court of Collin County, Texas sealed bids will be received for Signs: Road, Parking & Custom.

4.2 Purpose: It is the intent of the following specifications to describe signs, sign posts, delineators, sign mounting brackets, pavement markers, and sign installation tools needed by Collin County and members of the Collin County Governmental Purchasers Forum. This IFB has been divided into several sections requesting pricing on different types of signs/materials. The Collin County Governmental Purchasers Forum reserves the right to add or delete participating entities as needs arise or change throughout the contract period.

4.3 Term: Provide for a multi-year contract commencing on the date of the award and continuing through and including **March 1, 2014**, with three (3) additional one (1) year renewals.

4.4 Price Redetermination: A price redetermination may be considered by Collin County only at the twelve (12), twenty-four (24), and thirty-six (36) month anniversary date of the contract. All requests for price redetermination shall be in written form, shall be submitted a minimum of thirty (30) days prior to anniversary date and shall include documents supporting price redetermination such as Manufacturer's direct cost, postage rates, Railroad Commission rates, Federal/State minimum wage law, Federal/State unemployment taxes, F.I.C.A, Insurance Coverage Rates, etc. The bidder's past experience of honoring contracts at the bid price will be an important consideration in the evaluation of the lowest and best bid. Collin County and the Collin County Governmental Purchasers Forum reserves the right to accept or reject any/all of the price redetermination as it deems to be in the best interest of the County and the Collin County Governmental Purchasers Forum.

4.5 Delivery/Completion/Response Time: Signs/sign materials shall be delivered within thirty (30) days after receipt of an order. Vendor shall notify the Purchasing Department of the ordering entity if delivery schedule cannot be met. If delay is foreseen, the vendor shall give written notice to the Purchasing Agent of that entity. The entity has the right to extend delivery time if reason appears valid.

4.6 Delivery/Setup/Installation Location: The place of delivery will be stated on each entity's purchase order.

4.7 Descriptive Literature: Each bidder is requested to submit with this bid FOUR (4) copies of descriptive literature sufficient in detail to enable an intelligent comparison of the specification of the product(s) bid. Failure to provide literature with this Invitation For Bid may result in rejection of the bid or that part of the bid.

4.8 Approximate Usage: Estimated annual quantities are given for each commodity. Approximate usage does not constitute an order, but only implies the probable quantity the various Forum entities will use. Commodities will be ordered on an as-needed basis.

4.9 When requested a final layout and sample of sign shall be provided by vendor at no additional charge for approval by Collin County prior to sign fabrication.

4.10 Specifications

SECTION I: PRE-FABRICATED SIGNS

Items in this section shall conform to the specifications listed below:

- A. METAL: 0.080 Alodized Aluminum
- B. FINISH: Conforming to the Texas Manual on Uniform Traffic Control Devices (T.M.U.T.C.D.) (High Intensity Prismatic Sheeting)
- C. STANDARDS: Conform to the T.M.U.T.C.D. of the State Department of Highway Public Transportation (S.D.H.P.T.)

SECTION II: SPECIAL SIGNS

Items in this section shall conform to the specifications listed for each special sign.

No Dumping:

- A. 1/2" wide black border
- B. Size: 18" x 24"
- C. Metal: 0.080 Alodized Aluminum
- D. Finish: High Intensity Prismatic Sheeting Grade White/Silver background finish; Black Letters and 1/2" wide Black Border

Collin County Maintenance:

- A. SIZE: 30"W x 24"H
- B. METAL: 0.080 Alodized Aluminum
- C. LETTERS: 3" tall; 1/2" wide Black silk screened
- D. FINISH: High Intensity Prismatic Sheeting White/Silver background finish; 1/2" wide black border

Handicapped Parking:

- A. 1/2" wide white border
- B. Letter Size: In accordance with acceptable standards for readability for size sign required
- C. Sign to read:
 1. Handicapped Parking with Symbol
 2. Chair Lift Equipped Vehicles Only
- D. Metal: 0.080 Alodized Aluminum
- E. Finish: High Intensity Prismatic Sheeting Blue background finish; White Letters and 1/2" wide White Border; White handicapped symbol

SECTION III: SIGN FACES

Items in this section shall conform to the specifications listed below:

- A. High Intensity Sign Faces (3-M or approved equal)
- B. 10 year minimum warranty sheeting, with pressure sensitive application

SECTION IV: ~~ALODIZED~~ ALUMINUM BLANKS

Items in this section shall conform to the specifications listed below:

- A. 1" - 1 1/2" radius corners
- B. Pre-punched 3/8" diameter holes for typical sign attachment per T.M.U.T.C.D.
- C. 0.080 Thickness

SECTION V: VERTICAL ROAD MARKERS

Items in this section shall conform to the specifications listed below:

- A. Combination "T" section & "U" channel cross section to provide static rigidity for driveability and dynamic flexibility to withstand repeated vehicular impacts & maintain self erecting characteristics (Carsonite or approved equal)
- B. DIMENSIONS: Approx. 3 3/4" wide Approx. 62" long
- C. WEIGHT: Approx. 2 1/3 lbs.
- D. COLOR: White, with top portion of post to have 3" x 12" engineer grade reflective sheeting of amber color

SECTION VI: VERTICAL RECREATIONAL MARKERS/SIGNS This Section is deleted.

~~Items in this section shall conform to the specifications listed below:~~

- ~~A. — Combination "T" section & "U" channel cross section to provide static rigidity for driveability and dynamic flexibility to withstand repeated vehicular impacts & maintain self erecting characteristics (Carsonite or approved equal)~~

~~NOTE: Artwork and preliminary layout provided by Collin County. Final layout to be provided by vendor at no additional charge for approval by Collin County prior to sign fabrication.~~

SECTION VII: FLEXIBLE DELINEATORS

Items in this section shall conform to the specifications listed below:

- A. Constructed to meet the standards as stated in SDHPT specification numbers; D-9-400 and D-9-8600 (Safe-Hit or approved equal).
- B. POST: Flexible; color - white; tubular shape; approx. 2 1/2" diameter; flattened to an oval shape at least 3" wide & approx. 1" at the minor axis for upper 11" to 14" of post; top of the posts capped for water resistance.

- C. REFLECTIVE FACE: One 3" wide by 9" long strip of Engineers Grade Reflective Sheeting applied to the flattened area; color of reflective sheeting yellow/amber; applied to reach within 2" of the top of the post.
- D. METAL ANCHOR POST: Chisel pointed, driveable, reusable imbedded type anchor into which the above described flexible post is inserted and held in place by a self locking mechanism; interior reinforcement of about 18" long.

SECTION VIII: REFLECTIVE 9" X 30" COUNTY ROAD SIGN FACES

Items in this section shall conform to the specifications listed below:

- A. MATERIAL: Consists of sheeting material that will be applied to .091 gauge extruded aluminum blanks using a pressure sensitive method; ~~The reflective sheeting shall meet FP-79 Section 633-06 Sheet Reflective Materials Table IV of the Federal Highway Administration specifications.~~
- B. COLOR: (See Attachment A)
 - 1. Reflectorized blue background conforming with the Federal Highway Administration Highway Blue
 - 2. Reflectorized silver-white legend with the Collin County Logo and the suffix in red, (See Attachment A)
 - 3. All external use of the County logo is limited to non-commercial organizations. **Use of the logo for commercial gain is prohibited.**
 - 4. Any additional use of the logo must be approved by the County Administrator, Public Information Officer or a Commissioners Court designee.

Collin County logo's colors are:

White
Black Border
Blue: PMS Reflex Blue
Red: PMS 186

The logo fonts are:
Collin County – Franklin Gothic Demi, Bold

- 5. SIZE OF SIGNS: Road number faces to be applied by Collin County to an extruded aluminum blank nine inches (9") high and thirty inches (30") long; Finished size of the sign will be 9" x 30"
- 6. LETTER DESIGN: Letters R and D - Series E 5" upper case
- 7. LETTER SPACING: Control for spacing values in traffic layout is the distance recognized aesthetic spacing between two straight letters (HN); a spacing control of

two (2) times the width of the stroke of the letter series to be used shall be the aesthetic control (100%); Two and one-half (2 1/2) times this control shall be used as the aesthetic word space between elements in the primary legend (see Attachment A)

8. LAYOUT: (See Attachment A)
9. SIZE OF LEGEND:
 - A. Primary legend as road number - 5" upper case letters (RD)
 - B. Size of Collin County Logo - six inches (6") in diameter
10. POSITION OF LEGEND: Collin County Logo located on the far left side of the face with the suffix RD being next to the Logo and spacing for road numbers to the right (See Attachment A)
11. SIGN FABRICATION: Each sign face fabricated by reverse screening blue transparent color over silver reflective sheeting; Transparent process colors as recommended by the sheeting manufacturer; Cutout or applied legends are not permitted; Sign faces comprising of two or more pieces as panels of reflective sheeting must match for color to provide uniform appearance and brilliance both day and night; Only butt splices permitted on signs screen processed with transparent colors; All sign faces applied to .091 gauge aluminum blanks using a pressure sensitive method.
12. DURABILITY: Weather resistant reflective material; Shows no appreciable discoloration, cracking, crazing, blistering or dimensional change following cleaning; Must meet American Standard Testing Manufacture (ASTM D822-60); In lieu of outdoor accelerated weathering, the supplier may furnish a certificate of actual weathered samples of the same construction, materials, color and adhesive to insure conformance to the above.

SECTION IX: BARRICADES/BARRICADE SHEETING/ROLL STOCK

- A. Folding Barricades 37 x 36
- B. Type Z
- C. Type II
- D. Metal Frame with wood boards and/or plastic boards
- E. Sheeting applied
- F. Panels: 8" x 36"
- G. Roll Stock: 8" x 50 yd.

SECTION X: SIGN INSTALLATION TOOLS, HARDWARE AND POSTS

Sign Posts:

Items in this section shall conform to the specifications listed below:

- A. BASE POST AND SIGN POST: Flanged channel section high strength rail steel meeting requirements of ASTM A 499-81 modified to 70,000 minimum yield strength.

- B. SIGN POST FINISH: Hot dip galvanized meeting requirements of ASTM A-123, A-525, G-90 specifications or better.
- C. BASE POST FINISH: Hot dip galvanized meeting requirements of ASTM G-90 and coated with one mil of clear approved coating or galvanized in accordance with ASTM A-123.
- D. GALVANIZING FOR SIGN & BASE POSTS: Applied after fabrication is completed.
- E. SIGN & BASE POST WEIGHT: Sign post 2lbs/ft. Length 10'; Base Post: 3lb/ft., Length 3.5'.
- F. SIGN & BASE POST CONFIGURATION: Machine straightened with a smooth uniform finish free from injurious defects affecting strength or appearance; Bolt holes of 0.438" diameter carefully spaced vertically and horizontally so that holes will align for easy assembly; All bolt holes and sheared ends shall be commercially free from burrs; shall include breakaway mechanism with retainer straps, four (4) breakaway bolts with compatible lock washers and flanged nuts

Mounting Brackets:

Items in this section shall conform to the specifications listed below:

- A. FOR USE ON EXTRUDED SIGN BLANKS (9" X 30")
- B. BLADE HOLDER: Minimum 5"NO
- C. LOCK-IN SLOTS
- D. CONSTRUCTION: High strength 45,000 p.s.i. aluminum
- E. FURNISHED WITH ALL COMPATIBLE MOUNTING BOLTS AND CADMIUM PLATED SET SCREWS

Wood Sign Blanks:

Items in this section shall conform to the specifications listed below:

- A. High density grade plywood conforming to SDHPT material specification: D-9-7100 Plywood Sign Blanks
- B. 1 1/4" radius for all corners
- C. Signs predrilled with 3/8" diameter holes compatible to sign posts and drilled to allow for sign mounting per the below configurations.

Sign Post Breakout Couplers:

Items in this section shall conform to the specifications listed below:

- A. Full 360 degree break-away shear point

- B. Flush break
- C. Plugged anchor after impact.
- D. Wedge lock anchor attachment
- E. One hundred percent (100%) anchor reusability
- F. Fasteners to play no roll in function of break-away feature
- G. No special tools required
- H. Five (5) minutes or less replacement after knock down
- I. No shards of metal remain above grade following impact – trip hazard protection
- J. Allows for temporary sign replacement in anchor (without the need for a coupler) in emergency situations.
- K. Facilitates the use of tamper resistant fasteners
- L. Exterior grade (UV protected) powder coating.
- M. (ASTM A536) Certified
- N. Telespar brand or approved equal

~~NOTE: See attached Detail 1 and 2 for U-Channel and Square Tube Coupler dimensions.~~

Traffic Cones:

Items in this section shall conform to the specifications listed below:

- A. 28" cone with Heavy duty base (Work Area Protection 28PVCS or approved equal)
- B. Day-Glo Fluorescent Orange Color
- C. Big base to provide low center of gravity for maximum stability.
- D. Molded in one piece of rugged poly-vinyl chloride (PVC)._NO

SECTION XI: POLYETHYLENE SIGNS

Items in this section shall conform to the specifications listed below:

- A. Hi-Density Linear Polyethylene material to contain ultraviolet inhibitors.
- B. Silk-screened printing process with clear coating applied over printing.
- C. Ink pigment and clear coating to contain ultraviolet inhibitors.
- D. Material must not rust, fade, corrode, dent or crack.

SECTION XII: PAVEMENT MARKERS

All reflective pavement markers, non-reflective ceramic pavement markers and adhesive components must meet or exceed Texas State Department of Highways and Public Transportation Specifications for durability, reflectiveness and adhesiveness.

SECTION XIII: MAILBOX POSTS AND MOUNTING HARDWARE

Mailbox Posts and Mounting Hardware: (See Attachment B)

Mailbox Posts and Mounting Hardware shall conform to the Dallas District of the Texas Department of Transportation Standard Mailbox Hardware Specifications MB-03 as follows:

Galvanized "U" channel posts – 2 lbs. per ft. wt.; 5 ½ feet in length

Mailbox and angle mounting brackets

Includes all required mounting nuts bolts etc. per MB-03 spec

6" X 12" reflector (maximum size)

SECTION XIV: DISCOUNT OFF CATALOG PRICE

During the term of the contract the County may require additional items not specifically listed in this IFB. Bidder shall provide the catalog and/or list price, the percentage discount off catalog/list price, the amount of the discount in dollars, and the net unit price. The catalog/list price must match the price in the vendors catalog for the item bid. Collin County must have the catalogs no later than 10 days after award.