

CITY OF FAIRHOPE
BID INVITATION

April 20, 2010

Sealed proposals will be received by the City of Fairhope of Baldwin County, Alabama, in the City of Fairhope offices, 555 South Section St. Fairhope, Alabama, until 2:00P.M. May 10, 2010, and then publicly opened thereafter, for furnishing all labor and materials, and performing all work required by the City of Fairhope and described as follows:

Bid Number 010-10 TRAFFIC SIGNAL EQUIPMENT

Questions or comments pertaining to this bid must be presented in writing, sent as e-mail or faxed to the attention of the Purchasing Manager, Daniel P. Ames, P.O. Drawer 429, 555 South Section St., Fairhope, Al 36532, e-mail: .ames@cofairhope.com, fax number: 251-990-0125, Seventy Two (72) hours prior to the bid opening or will be forever waived.

All bids must be on blank forms provided in the Bid Documents. **BID BOND IS WAIVED.**
THERE WILL BE NO PREBID MEETING.

The City of Fairhope is an Equal Opportunity Employer and requires that all contractors comply with the Equal Employment Opportunity laws and the provisions of the Contract Documents in this regard. The City also encourages and supports the utilization of Minority Business Enterprises on this and all public bids.

All bids, with their guarantee (when required), must be enclosed in a sealed, opaque envelope, clearly identified on the outside as a "**Sealed Bid**" with **Item Name, Bid Number, City of Fairhope's Name and Address and Bidder's Name and Address**. Each bid must be in a separate envelope. Bids made out in pencil will not be accepted.

Failure to observe the instructions contained herein will constitute grounds for rejection of your bid. The City reserves the right to accept or reject all bids or any portion thereof whichever is in the best interest of the City of Fairhope.

The company that is awarded the bid must have Workman's Compensation Insurance on all of its employees if work is done on City premises. General Liability Insurance must be maintained to hold the City harmless in the event of an accident. If applicable, Proof of Workman's Compensation Insurance and General Liability Insurance specifying coverage must be presented before work is done on City premises.

No bids will be considered unless the bidder, whether resident or non-resident of Alabama, is properly qualified to submit a proposal for this type of work in accordance with all applicable laws of the State of Alabama. Where applicable, this shall include evidence of holding a current license from the State Licensing board for General Contractors, Montgomery, Alabama, as required by Chapter 8 of Title 34, of the Code of Alabama, 1975. In addition, non-residents of the State if a corporation, shall show evidence of having qualified with the Secretary of State to do business in the State of Alabama. Bidder must have a current business license or purchase a business license with the City of Fairhope prior to bid being awarded.

Daniel P. Ames,
Purchasing Manager

Posted: 04-21-10

GENERAL REQUIREMENTS

AWARD OR REJECTION OF BIDS

1. The Bid will be awarded to the lowest responsible bidder complying with conditions of the invitation for bids, provided his bid is reasonable and it is in the interest of the City of Fairhope to accept it. The bidder to whom the award is made will be notified at the earliest possible date. The City of Fairhope, however, reserves the right to reject any and all bids and to waive any informality in bids received whenever such rejection or waiver is in the interest to the City of Fairhope.

COMPLIANCE

1. All bid components will comply with all Federal, State and Local laws, ordinances, codes and regulations.
2. The awarded vendor will be responsible for insuring that all items meet specifications before delivery.
3. Awarded vendor will make no substitutions for bid items without prior written approval of the City of Fairhope Purchasing Department.

BUY AMERICAN CLAUSE

1. This project is affiliated with American Reinvestment and Recovery Act (ARRA) Funding. As such, manufacturer or vendor shall provide written statement that all parts purchased comply with section 1605 of the American Recovery and Reinvestment Act of 2009 (a.k.a the Buy American Act).

ORDERING

1. The City of Fairhope Purchasing Department will issue Purchase Order(s) to the awarded vendor for bid items as needed.
2. If awarded vendor fails to fill Purchase Order(s) or deliver on time, the City of Fairhope reserves the option to procure needed, comparable items from any source, and bill the awarded vendor for associated expenses generated by such failure.

PACKAGING & DELIVERY

1. Deliver bid items to City of Fairhope Warehouse, 555 South Section Street, Fairhope, AL, or other designated City site, maintaining product in proper state, undamaged.
2. At point of delivery, awarded vendor will present an itemized delivery ticket **with the Purchase Order Number clearly referenced thereon**, to City of Fairhope receiving personnel for signing.
3. F.O.B. City of Fairhope, as directed.
4. Shortages, defective or damaged items will be rejected. The awarded vendor will replace such items within ten (10) working days.
5. Where applicable, All Titles, fees, as well as other charges, are to be paid by awarded vendor. Awarded vendor is to furnish prepaid certificate of title in the name of the City of Fairhope, Title shall change upon acceptance of delivery at the Owner approved delivery location.
6. The bidder shall give the City at least 24 hours notice (Weekends and Holidays excluded) prior to delivery on site.

WARRANTY

1. Winning Bidder will provide written warranty for all parts and labor for a period of

(1) one year commencing from date of written acceptance of delivery by City of Fairhope. Winning Bidder will provide written copies of all other applicable warranties, such as, Manufacturer's warranty. Those warranties, if any, will be in addition to the Winning Bidder's warranty, and the terms of which will not be altered by the Winning Bidder's warranty.

PAYMENT

1. Invoices -- Upon completion of service and delivery of materials specified in the applicable purchase order, awarded vendor will submit an invoice and signed delivery ticket to:
City of Fairhope
Accounts Payable Department
P.O. Box 429
Fairhope, AL 36533
2. **All invoices must reference appropriate Purchase Order Numbers**
3. Payment Of Invoice: All invoices received by the City of Fairhope are payable within thirty (30) days from the date of receipt by the City of Fairhope, provided they are approved by the City of Fairhope City Council.

If you are unable to furnish an item as specified and desire to offer a substitute, give full description of the item. No errors will be corrected after bids are opened. No prices shall include State or Federal Excise Taxes. Municipalities are exempt from Alabama Sales Tax by state law.

Any attachments hereto are made and become a part of this inquiry and must be signed by bidder.

- Our bid response form must be filled in completely.
- All pages of this bid form must be returned.
- All documents requested must be attached to the back of page of such request and acknowledgement must be made where blank appears.
- A signed contractual agreement must be in place prior to beginning work or services.

I hereby affirm I have not been in any agreement or collusion among bidders or prospective bidders in restraint of freedom of competition, by agreement to bid at a fixed price or to refrain from bidding or otherwise.

Company: _____ **Date:** _____

Company Representative: _____
(Print)

Title: _____

Company Representative: _____
(Signature in ink)

THIS MUST BE NOTARIZED!

Sworn to and subscribed before me this _____ day of _____, 20__.

Notary Public

SCOPE OF WORK AND SPECIFICATIONS
BID NO. : 010-10
BID NAME: Traffic Signal Equipment

SCOPE OF WORK

1. The Awarded Vendor to provide all necessary supervision, labor, tools, materials and safety equipment to perform the following tasks:
 - a. Provide **TRAFFIC SIGNAL EQUIPMENT AS ITEMIZED AND LISTED** and associated materials and service as per specifications.
 - b. Deliver items to the City of Fairhope Warehouse, Fairhope Al, or other designated City site.
 - c. The **TRAFFIC SIGNAL EQUIPMENT** shall be complete with all of the necessary accessories as shown and described herein. Accessories not specifically mentioned, but necessary to furnish a complete unit ready for use shall also be included. All equipment shall be new and of current production of national firms that manufacture TRAFFIC LIGHT EQUIPMENT, and the specified accessories.
 - d. The attached specifications are intended and provided solely as a general and non-exhaustive expression of the intent and purpose of the City of Fairhope regarding this bid; said specifications should be so considered by the bidders. The use of specific names is not intended to restrict the bidder or any seller or manufacturer, but is solely for the purpose of indicating the type, size and quality of materials, product services, or equipment best suited for the City of Fairhope. Accordingly, the bidder admits and agrees that said specifications are not complete in every detail and that the work and materials not indicated or expressly mentioned in said specifications, but which are reasonably necessary for the full and faithful performance of the item(s) bid in accordance with the full and faithful intent, will be included in the bid and incorporated in the work by the bidder and at the bidder's sole expense, the same as if indicated and specified.

SPECIFICATIONS

COMPLY
YES NO

1. **Purpose:** It is the intent of the City of Fairhope to acquire Traffic Signal Equipment, with the following minimum specifications.
 - a. This specification is to set forth the specific requirements for the requested **Traffic Signal Equipment**.
 - b. This Traffic Signal Equipment shall be to the manufacturer's standard. _____
It shall be equipped with the manufacturer's equipment and accessories which are included as standard in the advertised and published literature for the unit. No such items of equipment or accessories shall be removed or omitted for the reason that it was not specified in the bid.

Minimum Specifications for Traffic Signal Equipment

	Comply	
	Yes	No
(A) ITE STANDARD PUBLICATIONS.		
1. All signal heads shall conform to the requirements given in the ITE Standards Publications "Adjustable Face Vehicular Traffic Control Signal Heads" and "Vehicle Traffic Control Heads" and the following, assembled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).	_____	_____
(B) SEPARATE ILLUMINATION.		
1. Each lens of a signal head shall be illuminated by a separate optical unit.	_____	_____
(C) HOUSING, DOOR, and VISOR.		
<i>I. HOUSING.</i>		
1. The housing shall be constructed of cast corrosion-resistant, copper free non-ferrous metal of not less than 17,000 psi {117 MPa} with all parts clean, smooth and free from flaws, cracks, blow holes and other imperfections.	_____	_____
2. The housing shall be of unitized sectional construction of as many sections as there are optical levels, rigidly and securely fastened together into one watertight assembly.	_____	_____
3. Each housing shall be arranged with round openings in the top and bottom so as to be capable of being rotated about a vertical line between the waterproof supporting brackets or trunnions and of being securely fastened at increments of not more than 7 inches {175 mm} of rotation.	_____	_____
<i>II. DOOR.</i>		
1. The door shall also be cast units from similar material to that used for the main section housing suitably hinged and shall be forced tightly against the gasket on the body of the housing by simple stainless steel locking devices.	_____	_____
2. All other exterior hardware, such as hinge pins, lens, clips, etc., shall be of stainless steel.	_____	_____
3. Neoprene gaskets shall be provided between the body of the housing and the doors, between the lenses and the doors, and between the lenses and reflectors to exclude dust and moisture.	_____	_____
4. The lens opening in the doors shall provide a visible diameter of not less than 11 inches {279 mm} nor more than 11.5 inches {292 mm} for a nominal 12 inch {300 mm} round lens. The dimensions of the opening in doors for rectangular lenses shall provide for a visible area of not less than 8 inches x 8 inches {205 mm x 205 mm}, nor more than 8.5 inches x 8.5 inches {215 mm x 215 mm}, for a nominal 9 inch {225 mm} rectangular lens and a visible area of not less than 11 inches x 11 inches {279 mm x 279 mm} nor more than 11.5 inches x 11.5 inches {292 mm x 292 mm} for a nominal 12 inch {300 mm} rectangular lens.	_____	_____
<i>III. VISOR.</i>		
1. Each signal head shall have a tunnel visor for each signal indication. The door shall have an integrally cast collar not less than 3/16 of an inch {4.8 mm} around the lens opening, and the visor shall be designed to fit tightly against the collar and door, and shall not permit any perceptible filtration of light between the door and the visor. The visor shall be a minimum of 9.5 inches {241 mm} in length for 12 inches {300 mm} diameter lenses, and not less than 0.05 inches {1.27 mm} in thickness, with a minimum downward tilt of 3.5 degrees. The visor shall be of corrosion-resistant nonferrous material. Visors shall be mounted with tabs, ears, or twist-on slots and stainless steel screws positioned for either vertical or horizontal mounting of the signal.	_____	_____

Minimum Luminous Intensity Values (In candelas) for 12 Inch Diameter Green and Yellow Lens												
Grid Values in Bold Text, 2.5D through 17.5D, are ITE requirements for Light Intensity												
	27.5	22.5	17.5	12.5	7.5	2.5	-2.5	-7.5	-12.5	-17.5	-22.5	-27.5
22.5U												
17.5U			7			20	20			7		
12.5U			27			41	41			27		
7.5U			41			108	108			41		
2.5U			115			441	441			115		
2.5D			154	283	501	678	678	501	283	154		
7.5D	32	77	178	291	404	452	452	404	291	178	77	32
12.5D	32	44	69	89	97	101	101	97	89	69	44	32
17.5D	32	41	44	44	44	44	44	44	44	44	41	32
22.5D			14			20	20			14		
27.5D												

Arrow indications shall be the light intensity shown in the following table.

Arrow Indication Light Intensity (In candelas per Square Meter)			
	Red	Yellow	Green
Arrow Indication	5500	11000	11000

- LEDs for arrow indications shall be spread evenly across the illuminated portion of the arrow area.
- The chromaticity of LED signal modules shall conform to the requirements given in the following table, for a minimum period of 60 months, over an operating temperature range of -40°C to +74°C. Each LED traffic signal lamp unit shall meet the minimum requirements for light output for the entire range of voltage from 80 to 135 volts.

Chromaticity Requirements *	
Red	Y: greater than 0.280 and less than 0.308 for $Y = 0.998 - X$
Yellow	Y: greater than 0.411 and less than 0.452 for $Y = 0.995 - X$
Green	Y: greater than 0.506 - 0.519X ($0 < X \leq 0.2243$ and greater than $0.150 + 1.068X$ ($0.2243 \leq X \leq 0.2804$) and less than $0.730 - X$ ($0 < X \leq 0.2804$)
* Taken from the ITE VTCSH Standard, Chapter 2, Paragraph 8.02, Figure 1	

III. LED PRODUCTION TESTING REQUIREMENTS.

- Each new LED traffic signal lamp unit shall be energized for a minimum of 24 hours at operating voltage and at a temperature of +60 °C in order to cause any electronic infant mortality to occur, and to ensure electronic component reliability prior to shipment. Each LED traffic signal lamp unit shall be tested for initial luminous intensity at rated operating voltage.

IV. PHYSICAL AND MECHANICAL REQUIREMENTS.

- The assembly and manufacturing process for the LED traffic signal lamp unit assembly shall be configured to assure all internal LED and electronic components are adequately supported to withstand mechanical shock and vibration from high winds and other sources.
- Each LED traffic signal lamp unit shall comprise a UV stabilized polymeric outer shell, multiple LED light sources, and a regulated power supply.

V. ELECTRICAL.

- Each unit shall incorporate a regulated power supply engineered to electrically

model submitted meets ITE Standard for light distribution, chromaticity, and power (consumption, power factor, and harmonic distortion). In addition, the independent lab report shall specify the drive current being supplied to individual LEDs within the unit. Designs which require LEDs to be operated at currents greater than the LED manufacturer's recommended drive current will not be allowed.

(I) DUAL INDICATION SIGNAL HEAD.

1. The dual indication signal shall provide a dynamic means of selectively displaying two separate colored indications from the same section during different intervals of the signal cycle.
2. The dual indication signal heads shall conform to the applicable requirements for Programmed Vehicular Signal Heads including exterior finish and ITE Standards Publication "Adjustable Face Traffic Control Signal Heads".
3. No indication shall result from external illumination nor shall one light unit illuminate a second and only one indication shall be apparent to any viewer at any one time.

OPTION #1.

1. As an option: all Housings, Doors and Visors shall be manufactured from polycarbonate components black in color, with the color molded throughout the material.

QUANTITIES:

ITEM	QUANTITY
1. 1-way, 3 section, vertical 12" traffic signal head (includes red Yellow and green LED lenses) Part # TP SIG-TAB-306-TTN-CVN-0A (OR EQUAL)	87
2. 3 section, vertical left turn 12" traffic signal head (includes Red, yellow and green turn LED lenses) Part # TP SIG-TAB-376-TTN-CVN-0A (OR EQUAL)	3
3. 5 section cluster 12" traffic signal head (includes Red on top center, yellow and green vertical LED lenses on Right, vertical yellow and green left turn LED lenses on left side, top is 2-way tri-stud, bottom is 2-way monostud on 17" center to center dimension) Part # TP SPNTM-BC1-ANY-3P (OR EQUAL)	21
4. 1-way, 2 section, vertical 12" red caution light head (includes 2 red LED lenses) Part # TP SIG-TAB-226-TTN-CVN-0A (OR EQUAL)	25
5. 1-way, 2 section, vertical 12" yellow caution light head (includes 2 Yellow LED lenses) Part # TP SIG-TAB-236-TTN-CVN-0A (OR EQUAL)	26
6. 1-way, 12" Strobe effect caution light (includes 12" steady red lens, fast flash white LED ring around lens) Part # TP SIG-TAB-106-TTN-CVN-ON WITH TP 717 STROBE LED (OR EQUAL)	1
7. 4-way assembly hardware (top is 4-way tri-stud, bottom is 4-way Monostud, 17" center to center dimension) Part # TP SPNTM-B41-ANY-3P (OR EQUAL)	12
8. 3-way assembly hardware (top is 3-way tri-stud, bottom is 3-way Monostud, 8.5" center to center dimension) Part # TP SPNTM-B31-ANY-3P (OR EQUAL)	2
9. 2-way assembly hardware (top is 2-way tri-stud, bottom is 2-way	4

Monostud, 17" center to center dimension)	
Part # TP SPNTM-B21-ANY-3P (OR EQUAL)	
10. 1-way tri-stud wire entrance assembly (4 hole with grommet)	62
Part # TP SPAN1-BA1-NT1-P (OR EQUAL)	
11. 2-way tri-stud wire entrance assembly (combination pattern With grommet)	49
Part # TP SPAN1-BA1-NC1-P (OR EQUAL)	

VENDOR COMPLIANCE

Items bid must comply with all specifications listed.

Vendor must acknowledge **VENDOR COMPLIANCE**. If vendor does not acknowledge **VENDOR COMPLIANCE**, it will be understood that vendor cannot fulfill said specifications. If it is necessary to bid alternate equipment or to take exceptions to the specifications as set forth, this must be so stated in your bid. For each item, please place an X in the appropriate space (Yes__ No__) to signify whether or not you are in complete compliance with the specification. Failure to follow the format or answer the specification may cause your bid to be disqualified. If you need extra space to describe your product, please attach extra sheets. When doing this, be sure your description references the appropriate question number.

I, the undersigned authority in and for said State and County, hereby certify that _____, as _____ respectively, of _____, whose name is signed to the foregoing document and who is known to me, acknowledged before me on this day, that, being informed of the contents of the document they executed the same voluntarily on the day the same bears date.

Given under my hand and Notaries Seal on this _____ day of _____, _____.

NOTARY PUBLIC

MY COMMISSION EXPIRES: _____