



SPECIFICATIONS AND SPECIAL CONDITIONS

STEEL POLES, MAST ARMS, AND LUMINAIRE MOUNTING ARMS

EVENT # 5172

- 4.0 The purpose of these specifications is to describe steel poles, mast arms, and luminaire mounting arms required for two (2) Traffic Engineering projects.

To submit pricing electronically for this event, enter pricing for each line item shown under the lines tab on the event summary. To enter pricing manually, complete the attached bid proposal form. Manually submitted bids must be submitted on the bid proposal forms contained in these specifications in order to be considered.

A pre-bid conference has been scheduled to be conducted at the Purchasing Office, third floor, City Hall, 2 E. Bay Street, Savannah, Georgia 31401. This meeting will allow contractors to discuss the specifications and resolve any questions and/or misunderstandings that may arise with City staff. You are invited to attend.

4.1 **General Specifications**

A traffic signal pole system shall consist of a tapered pole, round or fluted, tapered traffic signal mast arm(s), luminaire arm(s), if required, anchor bolts, base plate, and bolt covers.

4.2 **Design/Fabrication**

Design shall be in accordance with the AASHTO, "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals."

The fabricator shall be certified to ISO 9001 as set forth by the International Organization of Standards quality certification program. Proof of this certification will be required to ensure that the fabricator has the personnel, organization, experience, procedures, knowledge, equipment, capability, and commitment to fabricate quality traffic pole structures.

All welding shall be in accordance with Sections 1 through 8 of the American Welding Society (AWS) D1.1 Structural Welding Code. Tackers and welders shall be qualified in accordance with the code. Tube longitudinal seam welds shall be free of cracks and excessive undercut, performed with automatic processes, and be visually inspected. Longitudinal welds suspected to contain defects shall be magnetic particle inspected. All circumferential butt-welded tube splices shall be ultrasonically or radiographically inspected.

Calculations and detailed drawings shall be submitted demonstrating compliance with the AASHTO specifications. They shall include stress analysis on the mast arm, luminaire arm, pole, base plate, and anchor bolts. Maximum loads and stresses shall be determined for the most critical wind direction. The tube's drag coefficients shall be increased to include the effects of fluted shapes.

4.2.1 Pole

The poles shall conform to ASTM A595, A607, or A572, with minimum yield strength of 55ksi, and have constant linear taper of 0.14 inch per foot. The shaft shall be one piece, contain no circumferential welded splices, and be on a single ply (no laminated tubes). The pole shall have reinforced four inch by six and one-half inch (4.0" x 6.5") hand hole with cover located one foot six inches (1'-6") from the pole base. Each pole shall be provided with an end cap secured in place with set screws.

4.2.2 Signal Mast Arm Curved – Round

The curved round signal mast arm shall be fabricated from coil or plate steel conforming to ASTM A595 Grade A, with a minimum yield strength of 55ksi, and have a constant linear taper of 0.14in/ft. The tube's seam weld shall be formed by Electric Resistance Weld (ERW), and shall be smooth with no visual appearance. The mast arm shall be bent using a radius die to produce a curved upsweep traffic arm. All mast arms up to 50' in length shall be manufactured and shipped in one piece with no circumferential welded splices and be of a single ply (no laminated tubes). Each arm shall be provided with a cast end cap secured in place with set screws.

4.2.3 Fluting Process

The 16-Sharp Fluted cross sectional shape shall be formed from a round tapered tube, cold rolled over a precision steel fluted mandrel. The flutes shall be uniform and equally space and shall be free from marring and longitudinal rolling marks throughout the valley of each of the flutes. The termination of the flutes shall be well defined and crisp with no greater than 1.75 inch radii transition into the round section of the pole. The flutes shall terminate in a straight line circumferentially around the pole with no visible staggering of any two flutes. The outside diameter distance difference between any two pair of flutes 180 degrees apart shall be no more than a 0.25 inch.

4.2.4 Base Plate

Base plates shall conform to ASTM A36 or ASTM A572. Plates shall be integrally welded to the tubes with a telescopic welded joint.

4.2.5 Anchor Bolts

Anchor bolts shall conform to the requirements of ASTM F1554. The upper 12: of the bolts shall be hot dip galvanized per ASTM A153. Each anchor bolt shall be supplied with two hex nuts and two flat washers. The strength of the nuts shall equal or exceed the proof load of the bolts.

4.2.6 Finish

Option 1, (Galvanized): The pole structure finish shall be hot dipped galvanized in accordance with ASTM A123.

Option 2, (Powder Coated): The pole structure finish shall be coated with a Triglycidyl Isocyanurate (TGIC) Polyester Powder to a minimum dry film thickness of 2.0 mils (.002"). The coating is to be electrostatically applied and cured in a gas-fired convection oven by heating the steel substrate to a minimum of 350 degrees Fahrenheit (DF) and a maximum of 4000 DF. Pole/Arm color shall be "Savannah Green". Paint chip must be provided for approval.

4.3 **Delivery**

All materials shall be delivered to Traffic Engineering, 1100 West Gwinnett Street, Savannah, Georgia 31415. All prices shall be FOB Savannah, Georgia and all shipping and handling charges included. Please state estimated delivery time after approval of drawing.

4.4 **Manufacturer**

Approved manufacturer: Valmont Industries or approved equal. Vendors offering other than Valmont should include cut sheet/specification or other descriptive literature to aid in the evaluation process.

4.5 **Drawings:** Please see the attached drawings. To-scale drawings are available upon request.

5.0 **General Specifications**

5.1 The bid response must include the following documents in this order:

- Bid Proposal Form (as a cover sheet)
- Exception Sheet
- Non-Discrimination Statement
- Proposed Schedule of MWBE Participation
- Other submittals as stated

All referenced documents must be completed and returned in their entirety to constitute a complete bid.

5.2 Bids must be submitted in **triplicate**.

5.3 Original invoices should be sent to:

City of Savannah
Accounts Payable
P.O. Box 1027
Savannah, GA 31402

5.4 Vendor is responsible for determining and acknowledging any addenda issued in connection with this bid solicitation. Bidders must acknowledge all addenda issued for this event in order for their responses to be considered.

5.5 To be awarded bids, vendors must be registered as suppliers on the City of Savannah's website at www.savannahga.gov.

5.6 This contract will be awarded to the vendor offering the lowest net price to the City, and meeting or exceeding all specifications herein.

**EXCEPTION SHEET
EVENT # 5172**

If the commodity(ies) and/or services proposed in the response to this bid is in anyway different from that contained in this proposal or bid, the bidder is responsible to clearly identify by specification section number, all such differences in the space provided below. Otherwise, it will be assumed that bidder's offer is in total compliance with all aspects of the proposal or bid.

Below are the exceptions to the stated specifications:

Date

Signature

Company

Title

BID PROPOSAL FORM

(SUBMIT AS THE COVER SHEET)

City of Savannah Purchasing Department
3rd Floor, City Hall
P. O. Box 1027
Savannah, Georgia 31402

EVENT NUMBER: 5172
Business Location: (Check One)
 Chatham County
 City of Savannah
 Other

ATTN: Purchasing Director

ALL BIDDERS MUST BE REGISTERED SUPPLIERS ON THE CITY'S WEBSITE TO BE AWARDED EVENTS. PLEASE REGISTER AT WWW.SAVANNAHGA.GOV. ALL MANUALLY SUBMITTED BIDS MUST BE SUBMITTED ON THIS BID PROPOSAL FORM CONTAINED IN THESE SPECIFICATIONS TO BE CONSIDERED.

Name of Bidder: _____

Street Address: _____

City, State, Zip Code: _____

Phone: _____ Fax: _____

Email: _____

DO YOU HAVE A BUSINESS TAX CERTIFICATE ISSUED IN THE STATE OF GEORGIA?
(CHECK ONE) YES: _____ NO: _____

FROM WHAT CITY/COUNTY _____
TAX CERTIFICATE #: _____ FED TAX ID #: _____

INDICATE LEGAL FORM OF OWNERSHIP OF BIDDER (STATISTICAL PURPOSES ONLY):
CHECK ONE: CORPORATION PARTNERSHIP
 INDIVIDUAL OTHER
(SPECIFY: _____)

INDICATE OWNERSHIP STATUS OF BIDDER
(CHECK ONE):
 NON-MINORITY OWNED ASIAN AMERICAN
 AFRICAN AMERICAN AMERICAN INDIAN
 HISPANIC OTHER MINORITY
 WOMAN (non-minority) (describe) _____

Do you plan to subcontract any portion of this project? Yes _____ No _____
If yes, please complete the attached schedule of M/WBE participation. Also complete the schedule if you will be using any M/WBE suppliers.

THE UNDERSIGNED PROPOSES TO FURNISH THE FOLLOWING ITEMS IN STRICT CONFORMANCE TO THE BID SPECIFICATIONS AND BID INVITATION ISSUED BY THE CITY OF SAVANNAH FOR THIS BID. ANY EXCEPTIONS ARE CLEARLY MARKED IN THE ATTACHED COPY OF BID SPECIFICATIONS:

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE	TOTAL
1	Drawing 1 Detail: Steel Strain Pole (Round) with Luminaire. Finish: Option 1, Spec 4.2.6 (Galvanized)	4 EA		
2	Drawing 2 Detail: Steel Strain Pole (Fluted, 16-sharpe) with 55'/35' Double (Spec 4.2.2) Mast Arm. Finish: Option 2, Spec 4.2.6.	1 EA		
3	Drawing 2 Detail: Steel Strain Pole (Fluted, 16-sharpe) with 50'/35' Double (Spec 4.2.2) Mast Arm and Luminaire. Finish: Option 2, Spec 4.2.6.	1 EA		

TOTAL \$ _____

PAYMENT TERMS: PLEASE CHECK ONE AND FILL IN BLANKS

(Minimum of 10 working days must be allowed for discount to be considered in bid Award)

___ Less ___% ___ Days Prompt Payment Discount (if offered) (_____)

___ Net - 30 Days (no discount offered) - 0 -

TOTAL BID \$ _____

IN DAYS, WHAT IS THE ESTIMATED DELIVERY TIME AFTER THE APPROVAL OF DRAWINGS? _____ DAYS

WHO IS THE MANUFACTURER OF THE POLES? _____

CONFIRM RECEIPT OF ANY ADDENDA ISSUED FOR THIS BID:

ADDENDUM _____ #

DATE _____

I certify this Bid complies with the General and Specific Specifications and Conditions issued by the City except as clearly marked in the attached copy.

Please Print Name

Authorization Signature

Date

NON-DISCRIMINATION STATEMENT

The prime contractor/bidder certifies that:

- (1) No person shall be excluded from participation in, denied the benefit of, or otherwise discriminated against on the basis of race, color, national origin, or gender in connection with any bid submitted to the City of Savannah or the performance of any contract resulting therefrom;
- (2) That it is and shall be the policy of this Company to provide equal opportunity to all business persons seeking to contract or otherwise interested in contracting with this Company, including those companies owned and controlled by racial minorities, cultural minorities, and women;
- (3) In connection herewith, We acknowledge and warrant that this Company has been made aware of, understands and agrees to take affirmative action to provide such companies with the maximum practicable opportunities to do business with this Company;
- (4) That this promise of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption;
- (5) That the promises of non-discrimination as made and set forth herein shall be and are hereby deemed to be made as part of and incorporated by reference into any contract or portion thereof which this Company may hereafter obtain and;
- (6) That the failure of this Company to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract entitling the City of Savannah to declare the contract in default and to exercise any and all applicable rights and remedies including but not limited to cancellation of the contract, termination of the contract, suspension and debarment from future contracting opportunities, and withholding and or forfeiture of compensation due and owing on a contract.

Signature

Title

PROPOSED SCHEDULE OF M/WBE PARTICIPATION

Any M/WBE listed in this completed form must be certified by the City of Savannah and/or other certifying agency such as USDOT, GDOT, SBA 8(a) or GMSDC prior to the due date of this bid. Proof of M/WBE certification such as a certificate or letter from the certifying agency is required to accompany the bid. A firm that has submitted an application for M/WBE certification or an application for M/WBE certification under review but has not been certified is not qualified as a certified M/WBE and will not be recognized as such during the City's evaluation process.

Name of Proposer: _____

Event No. 5172

Project Title: _____

NOTE: Unless certified through the City of Savannah's MWBE Program, proof of MWBE certification must be attached to this completed form for all firms listed in the table below.

Name of M/WBE Participant	Name of Majority Owner	Telephone	Address (City, State)	Type of Work Sub-Contracted	Estimated Sub-contract Value	MBE or WBE	City Certified Y or N
					%		
					%		
					%		
					%		
					%		
					%		

MBE Participation Value: _____ %

Women Participation Value: _____ %

The undersigned will enter into a formal agreement with the M/WBE Subcontractors/Proposers identified herein for work listed in this schedule conditioned upon executing of a contract with the Mayor and Aldermen of the City of Savannah. The Prime's subcontractors' subcontractors must enter into a formal agreement with the tier subcontractor identified herein for work listed in this schedule. It is the responsibility of the Prime contractor to ensure compliance by all subcontractors.

Joint Venture Disclosure

If the prime bidder is a joint venture, please describe below the nature of the joint venture and level of work and financial participation to be provided by the Minority/Female joint venture firm.

Joint Venture Firms	Level of Work	Financial Participation

Printed name (company officer or representative): _____

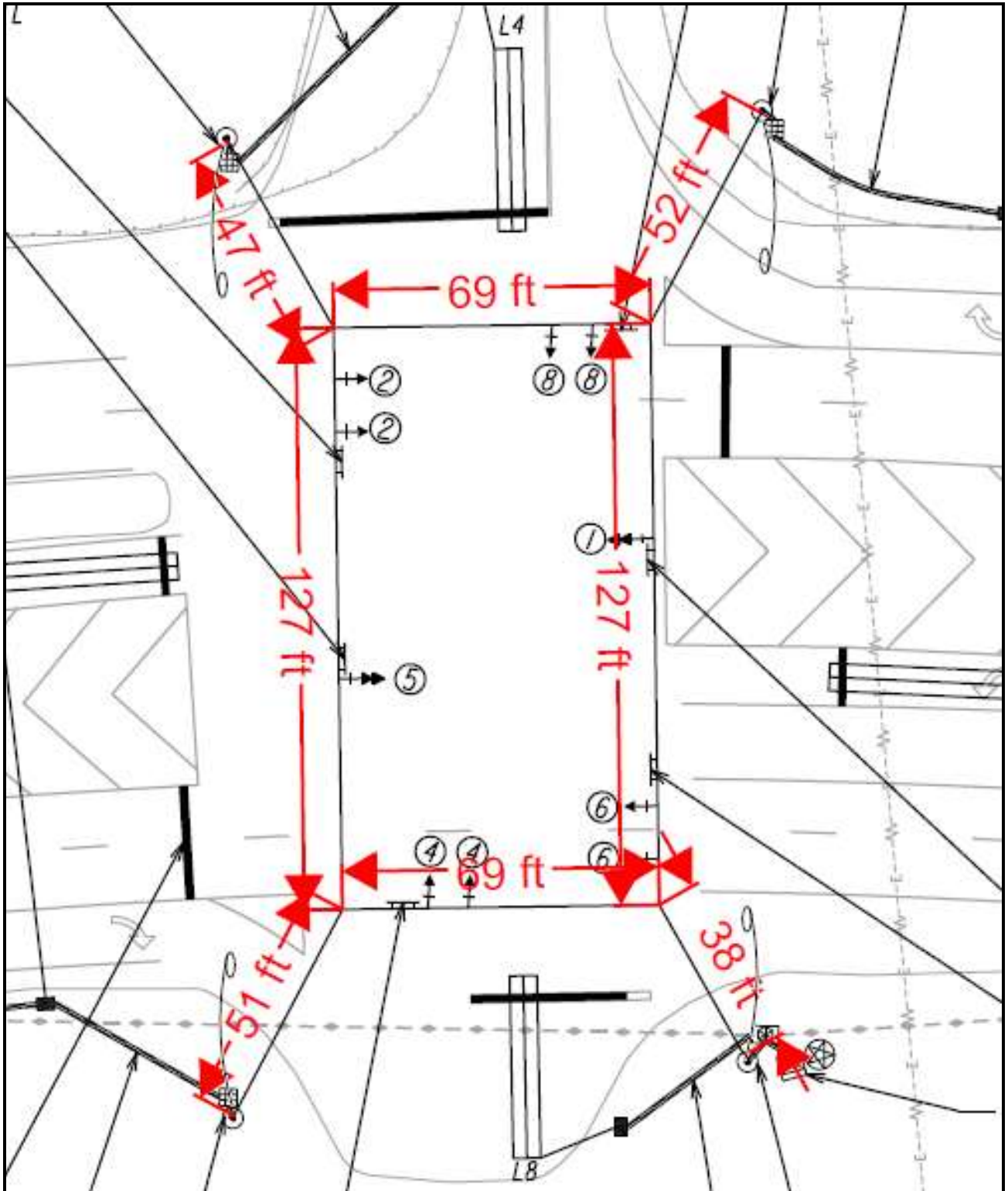
Signature: _____

Title: _____ Email: _____

Telephone: _____ Fax: _____

NOTE: The Minority/Women Owned Business Office is available to assist with identifying certified M/WBEs. Please contact the M/WBE Office at (912) 652-3582. The City of Savannah's certified M/WBE registry is posted on its website @ www.savannahga.gov.

DRAWING 1



DRAWING 2

