



CITY OF AUSTIN, TEXAS
Purchasing Office
INVITATION FOR BID (IFB)
OFFER SHEET

SOLICITATION NO: GGU0148

COMMODITY/SERVICE DESCRIPTION: STREETLIGHT LAMPS, LUMINAIRES AND FLOODLIGHTS ANNUAL PRICE AGREEMENT

DATE ISSUED: AUGUST 17, 2015

PRE-BID CONFERENCE TIME AND DATE: N/A

REQUISITION NO.: RQM-1100-15070100412

LOCATION: N/A

COMMODITY CODE: 28550, 28556 & 28576

BID DUE PRIOR TO: 2:00 PM ON SEPTEMBER 9, 2015

FOR CONTRACTUAL AND TECHNICAL ISSUES CONTACT THE FOLLOWING AUTHORIZED CONTACT PERSON:

BID OPENING TIME AND DATE: 2:15 PM ON SEPTEMBER 9, 2015

GABRIEL GUERRERO

LOCATION: MUNICIPAL BUILDING, 124 W 8th STREET
RM 308, AUSTIN, TEXAS 78701

BUYER II

Phone: (512) 322-6060

E-Mail: gabriel.guerrero@austinenergy.com

LIVE BID OPENING ONLINE:

For information on how to attend the Bid Opening online, please select this link:

<http://www.austintexas.gov/department/bid-opening-webinars>

When submitting a sealed Offer and/or Compliance Plan, use the proper address for the type of service desired, as shown below:

Address for US Mail (Only)	Address for Fedex, UPS, Hand Delivery or Courier Service
City of Austin	City of Austin, Municipal Building
Purchasing Office-Response Enclosed for Solicitation # GGU0148	Purchasing Office-Response Enclosed for Solicitation # GGU0148
P.O. Box 1088	124 W 8 th Street, Rm 308
Austin, Texas 78767-8845	Austin, Texas 78701
	Reception Phone: (512) 974-2500

NOTE: Offers must be received and time stamped in the Purchasing Office prior to the Due Date and Time. It is the responsibility of the Offeror to ensure that their Offer arrives at the receptionist's desk in the Purchasing Office prior to the time and date indicated. Arrival at the City's mailroom, mail terminal, or post office box will not constitute the Offer arriving on time. See Section 0200 for additional solicitation instructions.

All Offers (including Compliance Plans) that are not submitted in a sealed envelope or container will not be considered.

The Vendor agrees, if this Offer is accepted within 120 calendar days after the Due Date, to fully comply in strict accordance with the Solicitation, specifications and provisions attached thereto for the amounts shown on the accompanying Offer.

SUBMIT 1 ORIGINAL AND 2 COPIES OF YOUR RESPONSE

*****SIGNATURE FOR SUBMITTAL REQUIRED ON PAGE 3 OF THIS DOCUMENT*****

This solicitation is comprised of the following required sections. Please ensure to carefully read each section including those incorporated by reference. By signing this document, you are agreeing to all the items contained herein and will be bound to all terms.

SECTION NO.	TITLE	PAGES
0100	STANDARD PURCHASE DEFINITIONS	*
0200	STANDARD SOLICITATION INSTRUCTIONS	*
0300	STANDARD PURCHASE TERMS AND CONDITIONS	*
0400	SUPPLEMENTAL PURCHASE PROVISIONS	8
0500	ATTACHMENT I, DRAWING 1928-60, SPECIFICATIONS E-1785 AND E-1422	21
0600	BID SHEET – Must be completed and returned with Offer	11
0605	LOCAL BUSINESS PRESENCE IDENTIFICATION FORM – Complete & return	2
0700	REFERENCE SHEET – Complete and return if required	2
0800	NON-DISCRIMINATION CERTIFICATION	*
0805	NON-SUSPENSION OR DEBARMENT CERTIFICATION	*
0810	NON-COLLUSION, NON-CONFLICT OF INTEREST, AND ANTI-LOBBYING CERTIFICATION	*
0835	NONRESIDENT BIDDER PROVISIONS – Complete & return	1
0900	MBE/WBE PROCUREMENT PROGRAM PACKAGE NO GOALS FORM – Complete & return	2

*** Documents are hereby incorporated into this Solicitation by reference, with the same force and effect as if they were incorporated in full text. The full text versions of these Sections are available, on the Internet at the following online address:**

http://www.austintexas.gov/financeonline/vendor_connection/index.cfm#STANDARDBIDDOCUMENTS

If you do not have access to the Internet, you may obtain a copy of these Sections from the City of Austin Purchasing Office located in the Municipal Building, 124 West 8th Street, Room #308 Austin, Texas 78701; phone (512) 974-2500. Please have the Solicitation number available so that the staff can select the proper documents. These documents can be mailed, expressed mailed, or faxed to you.

The undersigned, by his/her signature, represents that he/she is submitting a binding offer and is authorized to bind the respondent to fully comply with the solicitation document contained herein. The Respondent, by submitting and signing below, acknowledges that he/she has received and read the entire document packet sections defined above including all documents incorporated by reference, and agrees to be bound by the terms therein.

Company Name: _____

Company Address: _____

City, State, Zip: _____

Federal Tax ID No. _____

Printed Name of Officer or Authorized Representative: _____

Title: _____

Signature of Officer or Authorized Representative: _____

Date: _____

Email Address: _____

Phone Number: _____

*** Completed Bid Sheet, section 0600 must be submitted with this Offer Sheet to be considered for award**

Section 0605: Local Business Presence Identification

A firm (Offeror or Subcontractor) is considered to have a Local Business Presence if the firm is headquartered in the Austin Corporate City Limits, or has a branch office located in the Austin Corporate City Limits in operation for the last five (5) years, currently employs residents of the City of Austin, Texas, and will use employees that reside in the City of Austin, Texas, to support this Contract. The City defines headquarters as the administrative center where most of the important functions and full responsibility for managing and coordinating the business activities of the firm are located. The City defines branch office as a smaller, remotely located office that is separate from a firm's headquarters that offers the services requested and required under this solicitation.

OFFEROR MUST SUBMIT THE FOLLOWING INFORMATION FOR EACH LOCAL BUSINESS (INCLUDING THE OFFEROR, IF APPLICABLE) TO BE CONSIDERED FOR LOCAL PRESENCE.

NOTE: ALL FIRMS MUST BE IDENTIFIED ON THE MBE/WBE COMPLIANCE PLAN OR NO GOALS UTILIZATION PLAN (REFERENCE SECTION 0900).

USE ADDITIONAL PAGES AS NECESSARY

OFFEROR:

Name of Local Firm		
Physical Address		
Is your headquarters located in the Corporate City Limits? (circle one)	Yes	No
or		
Has your branch office been located in the Corporate City Limits for the last 5 years?		
Will your business be providing additional economic development opportunities created by the contract award? (e.g., hiring, or employing residents of the City of Austin or increasing tax revenue?)	Yes	No

SUBCONTRACTOR(S):

Name of Local Firm		
Physical Address		
Is your headquarters located in the Corporate City Limits? (circle one)	Yes	No
or		
Has your branch office been located in the Corporate City Limits for the last 5 years	Yes	No

Will your business be providing additional economic development opportunities created by the contract award? (e.g., hiring, or employing residents of the City of Austin or increasing tax revenue?)	Yes	No

SUBCONTRACTOR(S):

Name of Local Firm		
Physical Address		
Is your headquarters located in the Corporate City Limits? (circle one)	Yes	No
or		
Has your branch office been located in the Corporate City Limits for the last 5 years	Yes	No
Will your business be providing additional economic development opportunities created by the contract award? (e.g., hiring, or employing residents of the City of Austin or increasing tax revenue?)	Yes	No

Section 0700: Reference Sheet

Please include the following information if required in solicitation:

Responding Company Name _____

1. Company's Name _____
Name and Title of Contact _____
Present Address _____
City, State, Zip Code _____
Telephone Number (____)_____ Fax Number (____)_____
Email Address _____

2. Company's Name _____
Name and Title of Contact _____
Present Address _____
City, State, Zip Code _____
Telephone Number (____)_____ Fax Number (____)_____
Email Address _____

3. Company's Name _____
Name and Title of Contact _____
Present Address _____
City, State, Zip Code _____
Telephone Number (____)_____ Fax Number (____)_____
Email Address _____

4. Company's Name _____
Name and Title of Contact _____
Present Address _____
City, State, Zip Code _____
Telephone Number (____)_____ Fax Number (____)_____
Email Address _____

5. Company's Name _____
Name and Title of Contact _____
Present Address _____
City, State, Zip Code _____
Telephone Number (____)_____ Fax Number (____)_____
Email Address _____

Section 0835: Non-Resident Bidder Provisions

Company Name _____

- A. Bidder must answer the following questions in accordance with Vernon's Texas Statutes and Codes Annotated Government Code 2252.002, as amended:

Is the Bidder that is making and submitting this Bid a "Resident Bidder" or a "non-resident Bidder"?

Answer: _____

- (1) Texas Resident Bidder- A Bidder whose principle place of business is in Texas and includes a Contractor whose ultimate parent company or majority owner has its principal place of business in Texas.
- (2) Nonresident Bidder- A Bidder who is not a Texas Resident Bidder.

- B. If the Bidder id a "Nonresident Bidder" does the state, in which the Nonresident Bidder's principal place of business is located, have a law requiring a Nonresident Bidder of that state to bid a certain amount or percentage under the Bid of a Resident Bidder of that state in order for the nonresident Bidder of that state to be awarded a Contract on such bid in said state?

Answer: _____ Which State: _____

- C. If the answer to Question B is "yes", then what amount or percentage must a Texas Resident Bidder bid under the bid price of a Resident Bidder of that state in order to be awarded a Contract on such bid in said state?

Answer: _____

Section 0900: Minority- and Women-Owned Business Enterprise (MBE/WBE) Procurement Program No Goals Form

SOLICITATION NUMBER:	GGU0148
PROJECT NAME:	STREETLIGHT LAMPS, LUMINAIRES & FLOODLIGHTS ANNUAL PRICE AGREEMENT

The City of Austin has determined that no goals are appropriate for this project. Even though goals were not assigned for this solicitation, the Bidder/Proposer is required to comply with the City's MBE/WBE Procurement Program, if areas of subcontracting are identified.

If any service is needed to perform the Contract and the Bidder/Proposer does not perform the service with its own workforce or if supplies or materials are required and the Bidder/Proposer does not have the supplies or materials in its inventory, the Bidder/Proposer shall contact the Small and Minority Business Resources Department (SMBR) at (512) 974-7600 to obtain a list of MBE and WBE firms available to perform the service or provide the supplies or materials. The Bidder/Proposer must also make a Good Faith Effort to use available MBE and WBE firms. Good Faith Efforts include but are not limited to contacting the listed MBE and WBE firms to solicit their interest in performing on the Contract, using MBE and WBE firms that have shown an interest, meet qualifications, and are competitive in the market; and documenting the results of the contacts.

Will subcontractors or sub-consultants or suppliers be used to perform portions of this Contract?

No _____ **If no, please sign the No Goals Form and submit it with your Bid/Proposal in a sealed envelope**

Yes _____ **If yes, please contact SMBR to obtain further instructions and an availability list and perform Good Faith Efforts. Complete and submit the No Goals Form and the No Goals Utilization Plan with your Bid/Proposal in a sealed envelope.**

After Contract award, if your firm subcontracts any portion of the Contract, it is a requirement to complete Good Faith Efforts and the No Goals Utilization Plan, listing any subcontractor, sub-consultant, or supplier. Return the completed Plan to the Project Manager or the Contract Manager.

I understand that even though goals were not assigned, I must comply with the City's MBE/WBE Procurement Program if subcontracting areas are identified. I agree that this No Goals Form and No Goals Utilization Plan shall become a part of my Contract with the City of Austin.	

Company Name	

Name and Title of Authorized Representative (Print or Type)	

Signature	Date

Minority- and Women-Owned Business Enterprise (MBE/WBE) Procurement Program No Goals Utilization Plan
 (Please duplicate as needed)

SOLICITATION NUMBER:	GGU0148
PROJECT NAME:	STREETLIGHT LAMPS, LUMINAIRES & FLOODLIGHTS ANNUAL PRICE AGREEMENT

PRIME CONTRACTOR / CONSULTANT COMPANY INFORMATION

Name of Contractor/Consultant			
Address			
City, State Zip			
Phone Number		Fax Number	
Name of Contact Person			
Is Company City certified?	Yes <input type="checkbox"/> No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> MBE/WBE Joint Venture <input type="checkbox"/>		

I certify that the information included in this No Goals Utilization Plan is true and complete to the best of my knowledge and belief. I further understand and agree that the information in this document shall become part of my Contract with the City of Austin.

Name and Title of Authorized Representative (Print or Type)

Signature _____
Date

Provide a list of all proposed subcontractors / sub-consultants / suppliers that will be used in the performance of this Contract. **Attach Good Faith Effort documentation if non MBE/WBE firms will be used.**

Sub-Contractor / Sub-Consultant			
City of Austin Certified	MBE <input type="checkbox"/> WBE <input type="checkbox"/> Ethics / Gender Code: <input type="checkbox"/> Non-Certified		
Vendor ID Code			
Contact Person		Phone Number	
Amount of Subcontract	\$		
List commodity codes & description of services			

Sub-Contractor / Sub-Consultant			
City of Austin Certified	MBE <input type="checkbox"/> WBE <input type="checkbox"/> Ethics / Gender Code: <input type="checkbox"/> Non-Certified		
Vendor ID Code			
Contact Person		Phone Number	
Amount of Subcontract	\$		
List commodity codes & description of services			

FOR SMALL AND MINORITY BUSINESS RESOURCES DEPARTMENT USE ONLY:			
Having reviewed this plan, I acknowledge that the proposer (HAS) or (HAS NOT) complied with City Code Chapter 2-9A/B/C/D, as amended.			
Reviewing Counselor _____	Date _____	Director/Deputy Director _____	Date _____

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The following Supplemental Purchasing Provisions apply to this solicitation:

1. **EXPLANATIONS OR CLARIFICATIONS:** (reference paragraph 5 in Section 0200)

All requests for explanations or clarifications must be submitted in writing to the Purchasing Office not later than (5) calendar days prior to bid opening. Submissions may be made via e-mail to: gabriel.guerrero@austinenergy.com or via fax at (512) 322-6174

2. **INSURANCE:** Insurance is required for this solicitation.

A. **General Requirements:** See Section 0300, Standard Purchase Terms and Conditions, paragraph 32, entitled Insurance, for general insurance requirements.

- i. The Contractor shall provide a Certificate of Insurance as verification of coverages required below to the City at the below address prior to contract execution and within 14 calendar days after written request from the City. Failure to provide the required Certificate of Insurance may subject the Offer to disqualification from consideration for award
- ii. The Contractor shall not commence work until the required insurance is obtained and until such insurance has been reviewed by the City. Approval of insurance by the City shall not relieve or decrease the liability of the Contractor hereunder and shall not be construed to be a limitation of liability on the part of the Contractor.
- iii. The Contractor must also forward a Certificate of Insurance to the City whenever a previously identified policy period has expired, or an extension option or holdover period is exercised, as verification of continuing coverage.
- iv. The Certificate of Insurance, and updates, shall be mailed to the following address:

City of Austin Purchasing Office
Attn: [\(All City Contracts\)](#)
721 Barton Springs Road
Austin, Texas 78704

B. **Specific Coverage Requirements:** The Contractor shall at a minimum carry insurance in the types and amounts indicated below for the duration of the Contract, including extension options and hold over periods, and during any warranty period. These insurance coverages are required minimums and are not intended to limit the responsibility or liability of the Contractor.

- i. **Worker's Compensation and Employers' Liability Insurance:** Coverage shall be consistent with statutory benefits outlined in the Texas Worker's Compensation Act (Section 401). The minimum policy limits for Employer's Liability are \$100,000 bodily injury each accident, \$500,000 bodily injury by disease policy limit and \$100,000 bodily injury by disease each employee.
 - (1) The Contractor's policy shall apply to the State of Texas and include these endorsements in favor of the City of Austin:
 - (a) Waiver of Subrogation, Form WC420304, or equivalent coverage
 - (b) Thirty (30) days Notice of Cancellation, Form WC420601, or equivalent coverage
- ii. **Commercial General Liability Insurance:** The minimum bodily injury and property damage per occurrence are \$500,000 for coverages A (Bodily Injury and Property Damage) and B (Personal and Advertising Injury).
 - (1) The policy shall contain the following provisions:
 - (a) Contractual liability coverage for liability assumed under the Contract and all other Contracts related to the project.
 - (b) Contractor/Subcontracted Work.
 - (c) Products/Completed Operations Liability for the duration of the warranty period.
 - (d) If the project involves digging or drilling provisions must be included that provide Explosion, Collapse, and/or Underground Coverage.

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- (2) The policy shall also include these endorsements in favor of the City of Austin:
 - (a) Waiver of Subrogation, Endorsement CG 2404, or equivalent coverage
 - (b) Thirty (30) days Notice of Cancellation, Endorsement CG 0205, or equivalent coverage
 - (c) The City of Austin listed as an additional insured, Endorsement CG 2010, or equivalent coverage
 - iii. **Business Automobile Liability Insurance:** The Contractor shall provide coverage for all owned, non-owned and hired vehicles with a minimum combined single limit of \$500,000 per occurrence for bodily injury and property damage. Alternate acceptable limits are \$250,000 bodily injury per person, \$500,000 bodily injury per occurrence and at least \$100,000 property damage liability per accident.
 - (1) The policy shall include these endorsements in favor of the City of Austin:
 - (a) Waiver of Subrogation, Endorsement CA0444, or equivalent coverage
 - (b) Thirty (30) days Notice of Cancellation, Endorsement CA0244, or equivalent coverage
 - (c) The City of Austin listed as an additional insured, Endorsement CA2048, or equivalent coverage.
 - C. **Endorsements:** The specific insurance coverage endorsements specified above, or their equivalents must be provided. In the event that endorsements, which are the equivalent of the required coverage, are proposed to be substituted for the required coverage, copies of the equivalent endorsements must be provided for the City's review and approval.
3. **TERM OF CONTRACT:**
- A. The Contract shall be in effect for an initial term of twenty-four (24) months and may be extended thereafter for up to three (3) additional twelve (12) month periods, subject to the approval of the Contractor and the City Purchasing Officer or his designee.
 - B. Upon expiration of the initial term or period of extension, the Contractor agrees to hold over under the terms and conditions of this agreement for such a period of time as is reasonably necessary to re-solicit and/or complete the project (not to exceed 120 days unless mutually agreed on in writing).
 - C. Upon written notice to the Contractor from the City's Purchasing Officer or his designee and acceptance of the Contractor, the term of this contract shall be extended on the same terms and conditions for an additional period as indicated in paragraph A above.
 - D. Prices are firm and fixed for the first twelve (12) months. Thereafter, price changes are subject to the Economic Price Adjustment provisions of this Contract.
4. **QUANTITIES:** The quantities listed herein are estimates for the period of the Contract. The City reserves the right to purchase more or less of these quantities as may be required during the Contract term. Quantities will be as needed and specified by the City for each order. Unless specified in the solicitation, there are no minimum order quantities.
- A. **Vendor Stocking** In order to meet critical need for certain material requirements, the City requires Vendor(s) who are awarded a Contract to maintain vendor stock of items awarded. Upon award of the Contract, Vendor(s) will establish the required stock levels within 30 calendar days (1 month) from the award of the Contract. If quantity falls below the vendor stocking level due to purchases from the City of Austin, the Vendor will have a maximum of thirty (30) calendar days to replenish Vendor stock. The City will notify Vendor(s) of changes in the required Vendor stock quantities by providing a Contract modification document stating the new stock requirements. Upon receipt of a notification for an increase in the Vendor stock, Vendor(s) will establish the new Vendor stock level within thirty (30) calendar days after the notification. Within ninety (90) days prior to end of the Contract with all extension options and or holdovers exhausted or declined, the City will purchase the quantities

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Vendor(s) have in stock of the required Vendor stock up to the current Vendor stock requirement. This buy-out does not apply to a Contract that is terminated for cause.

- B. **Stock Reports** In order for the City to monitor the stock levels of the critical materials, Vendor(s) will report every Tuesday by 2:00 PM their stock status as of the close of business on Monday. Using the Streetlight Lamps, Luminaires and Floodlights Stock List Form, Attachment 1, vendor(s) will report their on-hand quantities, on-order quantities and on-order delivery dates. Reports will be submitted to the Contract Manager Yvette Madrid.
- 5. **DEPARTMENTS:** The Contract will be utilized by the Austin Energy Department. The City reserves the right to allow other City Departments to utilize the contract.
- 6. **DELIVERY REQUIREMENTS:** Delivery sites shall include but are not limited to:

Delivery Location:	Receiving Hours :
Austin Energy St. Elmo Warehouse and Yard 4411 Meinardus Drive, Building W Austin, TX 78744	Monday through Friday Hours: 7:00 am to 3:00 pm
Austin Energy Kramer Warehouse and Yard 2412 Kramer Lane, Building D Austin, TX 78758	Monday through Friday Hours: 7:00 am to 3:00 pm

- A. Delivery is to be made within two (2) calendar days after the order is placed in writing for items 1, 2, 15, 17, 22, 26, 30, 37, 39 and 40. Delivery for the remaining items is to be made within the delivery time specified by the awarded contracts bid sheet. All orders must be shipped complete unless arrangements for partial shipments are made in advance.
- B. The Contractor shall provide, with each delivery, a Shipping or Delivery Ticket showing the description of each item, quantity, and unit price.
- C. The Contractor shall confirm the quantity to be shipped on all orders within two (2) hours of notification from the City.
- D. Unless requested by the City, deliveries shall not be made on City-recognized legal holidays (see paragraph 51 in Section 0300).

7. DELIVERY PERFORMANCE

- A. The City will monitor Vendor's delivery performance by noting and recording Vendors' order receipt dates ("Receipt Date"), and comparing them with Vendor quoted delivery dates ("Delivery Date") in accordance with the information provided at the time of order or the requirements of this Contract; this information will be compiled quarterly into a report ("Report"). The City will monitor Vendor's delivery performance at random and provide a formal Report to the Vendor at the end of each calendar quarter ("Vendor Performance Review").
- B. Each order will be scored as follows: The sum of the:

$$\frac{\text{Number of orders received on time}}{\text{Total number of orders received}} = \% \text{ On-Time (" \% On-Time")}$$

For this proposed Contract the Goal shall be 95 % On-Time. For example: if, during the month of July, 72 orders were received on-time, and 2 other orders were delivered late then the % On-Time is the quotient of the number of orders delivered on-time divided by the total number of orders

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delivered. In this example the Goal is 95%; the math is: 72 (orders delivered on-time)/(72 + (2 orders delivered late) = 74 total orders delivered), or 72/74 equals 97%. Since 97% is greater than this example's Goal of 95%, this month's deliveries meet the Contract Requirements.

If the on-time delivery score falls below the goal, the City will notify the Contractor by email.

- i. If the on-time delivery score is below the goal for two or more consecutive quarters, the City may require the supplier to provide a delivery improvement plan in writing.
- ii. If the on-time delivery score consistency falls below the goal, the City may cancel the contract.
- iii. See Section 0300, Standard Purchase Terms & Conditions page 7, Sec. 27 TERMINATION FOR CAUSE & Sec. 28 TERMINATION WITHOUT CAUSE for further details.

C. Request for correction. Vendor may request a correction to a Report based on a perceived discrepancy in an/multiple order(s). Such requests must be issued in writing within (7) seven calendar days after email release to Vendor of the most recent Vendor Performance Review. The request shall include credible documentation, such as a proof of delivery, substantiating Vendor's claims. Correction requests should be emailed to the person listed as the Contract Manager named in these 0400s and may be copied to the Buyer and or the person who sent or presented the Vendor Performance Review. City will review and make corrections to the Report as appropriate.

8. INVOICES and PAYMENT: (reference paragraphs 12 and 13 in Section 0300)

A. Invoices shall contain a unique invoice number and the information required in Section 0300, paragraph 12, entitled "Invoices." Invoices received without all required information cannot be processed and will be returned to the vendor.

Invoices shall be mailed to the below address:

	City of Austin
Department	Austin Energy
Attn:	Payments Section
Address	PO Box 3546
City, State Zip Code	Austin, Texas 78764

B. The Contractor agrees to accept payment by either check or Electronic Funds Transfer (EFT) for all goods and/or services provided under the Contract.

9. MATERIALS SPECIFICATIONS/DESCRIPTIVE LITERATURE:

A. If a solicitation refers to a Qualified Products List (QPL), Standard Products List (SPL) or a manufacturer's name and product, any Offeror offering products not referenced in the solicitation should submit as part of their Offer materials specifications/descriptive literature for the non-referenced product. Materials specifications/descriptive literature should be identified to show the item(s) in the Offer to which it applies.

B. Materials specifications/descriptive literature are defined as product manufacturer's catalog pages, "cut sheets" applicable tests results, or related detailed documents that specify material construction,

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performance parameters, and any industrial standards that are applicable such as ANSI, ASTM, ASME, SAE, NFPA, NBS, EIA, ESL, and NSA. The submitted materials specifications/descriptive literature should include the manufacturer's name and product number of the product being offered.

- C. The failure of the materials specifications/descriptive literature to show that the product offered conforms to the requirements of the Solicitation shall result in rejection of the Offer.
- D. Failure to submit the materials specifications/descriptive literature as part of the Offer may subject the Offer to disqualification from consideration for award.

10. SAMPLES – QUALIFIED PRODUCTS LIST (QPL) and/or STANDARD PRODUCTS LIST (SPL):

- A. The Offeror should submit a sample of all proposed “equal” non-QPL and/or non-SPL products included in the Offer. The City reserves the right to test any “equal” non-QPL and/or non-SPL product that is offered prior to determination of award. If the amount of time required for testing exceeds ten (10) calendar days from the date of receipt of the sample, the City may award to Offerors with pretested products. The product will still be tested and if it meets specifications, will be added to the QPL and or SPL for future Solicitations.
- B. Send samples to the City at the following address:

City of Austin	
Department	Austin Energy: Distribution Materials Standards Group
Address	4411-B Meinardus Drive
City, State Zip Code	Austin, Texas 78744
Attn:	Michael Pittman

- C. Products that are not pretested must be available within ten (10) calendar days after notification by the City for testing and evaluation.
- D. All products (except those prior pre-tested and approved) provided to the City under this Solicitation will be evaluated or tested and must meet all requirements of the specification, regardless of whether or not all requirements are to be evaluated or tested.
- E. Samples will be provided at no cost to the City, will be retained by the City, and may be used in assuring compliance with materials specifications after award. Failure to supply samples when requested shall subject the Offer to disqualification from consideration for award.

11. HAZARDOUS MATERIALS:

- A. If this Solicitation involves hazardous materials, the Offeror should furnish with the Offer Material Safety Data Sheets (MSDS), (OSHA Form 20), on all chemicals and hazardous materials specifying the generic and trade name of product, product specification, and full hazard information including receiving and storage hazards. Instructions, special equipment needed for handling, information on approved containers, and instructions for the disposal of the material are also required.
- B. Failure to submit the MSDS as part of the Offer may subject the Offer to disqualification from consideration for award.
- C. The MSDS, instructions and information required in paragraph “A” must be included with each shipment under the contract.

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12. ECONOMIC PRICE ADJUSTMENT:

- A. **Price Adjustments:** Prices shown in this Contract shall remain firm for the first twelve (12) months period of the Contract. After that, in recognition of the potential for fluctuation of the Contractor's cost, a price adjustment (increase or decrease) may be requested by either the City or the Contractor on the anniversary date of the Contract or as may otherwise be specified herein. The percentage change between the contract price and the requested price shall not exceed the percentage change between the specified index in effect on the date the solicitation closed and the most recent, non-preliminary data at the time the price adjustment is requested. The requested price adjustment shall not exceed fifteen percent (15%) for any single line item and in no event shall the total amount of the contract be automatically adjusted as a result of the change in one or more line items made pursuant to this provision. Prices for products or services unaffected by verifiable cost trends shall not be subject to adjustment.
- B. **Effective Date:** Approved price adjustments will go into effect on the first day of the upcoming renewal period or anniversary date of contract award and remain in effect until contract expiration unless changed by subsequent amendment.
- C. **Adjustments:** A request for price adjustment must be made in writing and submitted to the other Party prior to the yearly anniversary date of the Contract; adjustments may only be considered at that time unless otherwise specified herein. Requested adjustments must be solely for the purpose of accommodating changes in the Contractor's direct costs. Contractor shall provide an updated price listing once agreed to adjustment(s) have been approved by the parties.
- D. **Indexes:** In most cases an index from the Bureau of Labor Standards (BLS) will be utilized; however, if there is more appropriate, industry recognized standard then that index may be selected.
- i. The following definitions apply:
- (1) **Base Period:** Month and year of the original contracted price (the solicitation close date).
 - (2) **Base Price:** Initial price quoted, proposed and/or contracted per unit of measure.
 - (3) **Adjusted Price:** Base Price after it has been adjusted in accordance with the applicable index change and instructions provided.
 - (4) **Change Factor:** The multiplier utilized to adjust the Base Price to the Adjusted Price.
 - (5) **Weight %:** The percent of the Base Price subject to adjustment based on an index change.
- ii. **Adjustment-Request Review:** Each adjustment-request received will be reviewed and compared to changes in the index(es) identified below. Where applicable:
- (1) Utilize final Compilation data instead of Preliminary data
 - (2) If the referenced index is no longer available shift up to the next higher category index.
- iii. **Index Identification:** Complete table as they may apply.

Weight % or \$ of Base Price: 100%	
Database Name: Producer Price Index Industry Data	
Series ID: PCU335110	
<input checked="" type="checkbox"/> Not Seasonally Adjusted	<input type="checkbox"/> Seasonally Adjusted
Geographical Area: All	
Description of Series ID: PCU335110335110 Electric Lamp Bulb and Part Manufacturing	
This Index shall apply to the following items of the Bid Sheet / Cost Proposal: Street Light Lamps line items: 1 – 14	

**CITY OF AUSTIN
PURCHASING OFFICE
SUPPLEMENTAL PURCHASE PROVISIONS (IFB GGU0148)**

Weight % or \$ of Base Price: 100%	
Database Name: Producer Price Index Industry Data	
Series ID: PCU335129	
<input checked="" type="checkbox"/> Not Seasonally Adjusted	<input type="checkbox"/> Seasonally Adjusted
Geographical Area: All	
Description of Series ID: PCU3351293351291 Outdoor lighting equipment manufacturing/product: Outdoor lighting equipment (including parts and accessories)	
This Index shall apply to the following items of the Bid Sheet / Cost Proposal: Luminaires line items: 19 – 33, 40	

Weight % or \$ of Base Price: 100%	
Database Name: Producer Price Index Industry Data	
Series ID: PCU335122	
<input checked="" type="checkbox"/> Not Seasonally Adjusted	<input type="checkbox"/> Seasonally Adjusted
Geographical Area: All	
Description of Series ID: PCU3351223351222Z Industrial-Type Electric Lighting Fixtures Including Parts and Accessories	
This Index shall apply to the following items of the Bid Sheet / Cost Proposal: Floodlights line items: 15, 16, 17, 18, 34, 35, 36, 37, 38, 39	

Weight % or \$ of Base Price: 100%	
Database Name: Producer Price Index Industry Data	
Series ID: PCU335932	
<input checked="" type="checkbox"/> Not Seasonally Adjusted	<input type="checkbox"/> Seasonally Adjusted
Geographical Area: All	
Description of Series ID: PCU3359323359321 Noncurrent Carrying Wiring Device	
This Index shall apply to the following items of the Bid Sheet / Cost Proposal: 41 and 42	

E. **Calculation:** Price adjustment will be calculated as follows:

Single Index: Adjust the Base Price by the same factor calculated for the index change.

Index at time of calculation
Divided by index on solicitation close date
Equals Change Factor
Multiplied by the Base Rate
Equals the Adjusted Price

F. If the requested adjustment is not supported by the referenced index, the City, at its sole discretion, may consider approving an adjustment on fully documented market increases.

**CITY OF AUSTIN
PURCHASING OFFICE
SUPPLEMENTAL PURCHASE PROVISIONS (IFB GGU0148)**

13. **CONTRACT MANAGER**: The following person is designated as Contract Manager, and will act as the contact point between the City and the Contractor during the term of the Contract:

Yvette Madrid
Contract Compliance Specialist

Austin Energy, Materials Control Section
Town Lake Center Room (400.1.40)

721 Barton Springs Road
Austin, Texas 78704

Phone number: (512) 322.6340 Fax number: (512) 322-6390
E-mail address: yvette.madrid@austinenergy.com

*Note: The above listed Contract Manager is not the authorized Contact Person for purposes of the **NON-COLLUSION, NON-CONFLICT OF INTEREST, AND ANTI-LOBBYING Provision** of this Section; and therefore, contact with the Contract Manager is prohibited during the no contact period.

**CITY OF AUSTIN
PURCHASING OFFICE
(IFB GGU0148)**

**Streetlight Lamp, Luminaires and Floodlights List Reporting Form
(To be submitted by 2:00 p.m. every Tuesday)**

To: Yvette Madrid, Contract Manager
City of Austin
Austin Energy
721 Barton Springs Road, 4th Floor
Austin, TX 78704

Phone (512) 322-6340
Fax: (512) 322-6390
Email: yvette.madrid@austinenergy.com

I hereby certify that the quantities indicated herein are in stock at the location designated and available for immediate delivery to the City of Austin. All items shown herein represent stock available at the close of business, Monday, __/__/__, and are set forth in this statement pursuant to competitive bidding policies of the City of Austin, Texas.

Company:

Street Address:

Authorized Preparer:

Date Prepared:

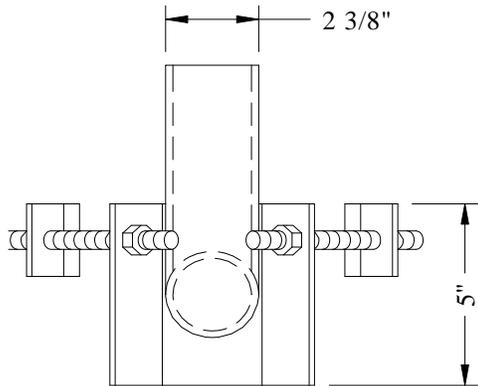
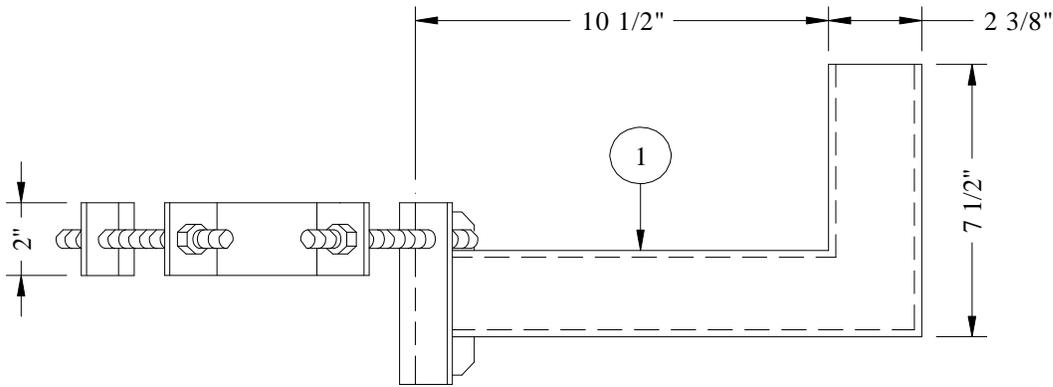
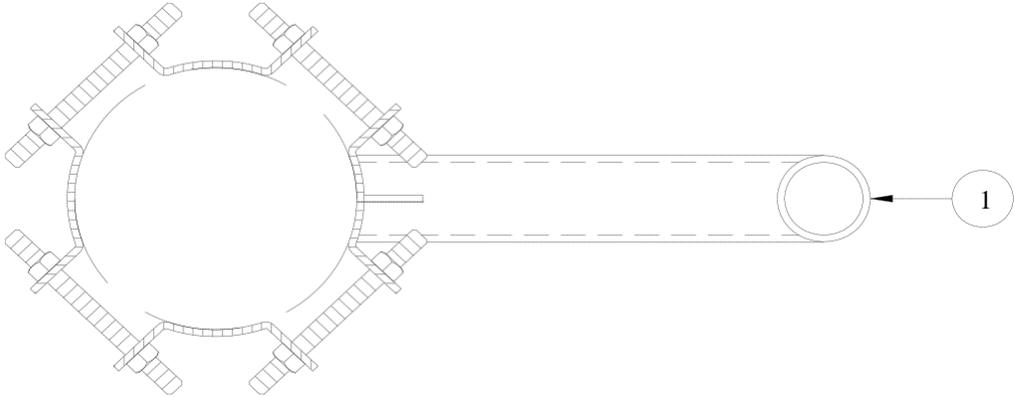
Preparer's Title:

Telephone:

No.	Stock No.	Description	Required Stock	On-Hand Quantity	On-Order Quantity	On-Order EDD
1	6105	LAMP 100 WATT HIGH PRESSURE SODIUM CLEAR MOGUL BASE	600			
2	6104	LAMP 250 WATT HIGH PRESSURE SODIUM CLEAR MOGUL BASE	450			
15	6746	BRACKET MOUNTING ASSY WOOD POLE FLOODLIGHT STD	50			
17	6234	RELAY MULTIPLE OPEN LOAD CONTACTOR HVY DUTY 30 AMP	45			
22	6192	LUMINAIRE HPS 100W TY II FLAT GLASS COBRAHEAD MULTI-TAP	400			
26	6193	LUMINAIRE HPS 250W TY III 120/208/240/277V COBRAHEAD	200			
30	6194	LUMINAIRE HPS 400W TY III 120/208/240/277V COBRAHEAD	40			
37	1709	FLOODLIGHT MTL HALIDE 400W WIRED 120V PHOTOCNTL RECEP	10			
39	6748	KIT UNIVERSAL STARTER REPLACEMENT HPS LUMINARIES	30			
40	6766	CONTROLLER STREET LIGHT 1000 W 120/240/277 V	50			

1928- 60	STREETLIGHTS STREET LIGHT MATERIALS BRACKETS	
Sheet 1 of 2		Rev: 10/03/14
11/01		

1928-60 BRACKETS



POLE MOUNT P/M
FLOODLIGHT MOUNTING
BRACKET
1928-60-05

	STREETLIGHTS STREET LIGHT MATERIALS BRACKETS	1928- 60
		Sheet 2 of 2
Rev: 10/03/14		11/01

CU

CU- ID	CU- REF	CU- Description
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BRKTM TASSY FLOOD LT WP	19286005	BRKT MOUNT ASSY FOR FLOOD LT WOODPOLE
-------------------------	----------	---------------------------------------

ID	PART NUM	PART DESC	QTY	CU- REF
1	0000006746	BRACKET MOUNTING ASSY WOOD POLE FLOODLIGHT STD	1 EA	19286005

AUSTIN ENERGY

PURCHASE SPECIFICATION

FOR

LUMINAIRES, DIST, ST LIGHT, LIGHT EMMITING DIODE (LED)

<u>DATE</u>	<u>PREPARED BY</u>	<u>ISSUANCE/REVISION</u>	<u>APPROVAL</u> <u>DIVISION MANAGER/STANDARDS MANAGER</u>
7/18/14	Danny McReynolds/Lee Emmick	Issuance	

REASON FOR REVISION

AFFECTED PARAGRAPHS

This specification, until rescinded, shall apply to each future purchase and contract for the commodity described herein.
Retain for future reference.

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**AUSTIN ENERGY
PURCHASE SPECIFICATION
FOR
LIGHT EMITTING DIODE (LED) LUMINAIRES**

1.0 SCOPE

This specification shall define the minimum physical and electrical characteristics required by Austin Energy (AE) for Light Emitting Diode (LED) luminaires of the enclosed, side-mounted, which have integral drivers and photoelectric control receptacles. The LED luminaires shall be used as equivalents to AE standard 100, 250 and 400W, high pressure sodium (HPS), mast arm mounted, "cobrahead" style road way luminaires.

2.0 CLASSIFICATION

The requirements herein shall apply to LED luminaires of the following wattages, style, and voltage.

- 2.1 100-watt equivalent LED, U0 dark sky compliant 120/208/240/277-volt "cobrahead" with ROAM compatible photo control receptacles and photometrics in compliance with section 7.1 of this specification.
- 2.2 250-watt equivalent, LED, U0 dark sky compliant 120/208/240/277-volt "cobrahead" with ROAM compatible photo control receptacles and photometrics in compliance with section 7.2 of this specification.
- 2.3 400-watt equivalent LED, U0 dark sky compliant 120/208/240/277-volt "cobrahead" with ROAM compatible photo control receptacles and photometrics in compliance with section 7.3 of this specification.

3.0 APPLICABLE STANDARDS

All characteristics, definitions, and terminology, except as specifically covered in this specification shall be in accordance with the latest revision of the following ANSI standards:

- 3.1 ANSI C136.2
Roadway lighting luminaires - voltage classification.
- 3.2 ANSI C136.3
Roadway lighting equipment luminaire attachments.
- 3.3 ANSI C136.10
Roadway lighting equipment locking-type photocontrol devices and mating receptacles physical and electrical interchangeability and testing.
- 3.4 ANSI C136.25
Roadway lighting equipment – ingress protection (IP 66)
- 3.5 ANSI C136.31
Roadway lighting vibration – 3G vibration test
- 3.6 ANSI C136.37
Roadway lighting equipment – solid state light sources
- 3.7 ANSI C136.41
Roadway and area lighting equipment – dimming control between an external locking type photocontrol and driver

- 3.8 ANSI C136.1110
Roadway lighting equipment - multiple sockets.
- 3.9 ANSI/IES RP-8
Practice for roadway lighting.
- 3.10 ANSI/IES LM-79
Electrical and Photometric Measurements of Solid-State Lighting Products.
- 3.11 ANSI/IES TM-15-11
Luminaire Classification System for Outdoor Luminaires (B-U-G).
- 3.12 ANSI/IES LM-63
Standard File Format for Electronic Transfer of Photometric Data and Related Information.

4.0 GENERAL

- 4.1 The light shall be commercially available. Prototypes will not be accepted unless approved by Engineering Standards.
- 4.2 The fixture shall use at least 55% less energy compared to its commercially available High Pressure Sodium counterpart. Maximum wattage acceptable would be 58W for HPS 100W equivalent, 138W for HPS 250W equivalent and 220W for HPS 400W equivalent.
- 4.3 A full sheet of product specifications shall be submitted prior to award of contract. IES files must be available on manufacturer's website. Warranty information shall be submitted prior to award of contract and warranty shall cover all parts including the driver and have a minimum 10 year warranty.
- 4.4 Fixture shall be designed to meet IESNA lighting standards per RP-8. Types II, III, and V distribution patterns should be readily available. Fixture shall also meet IES TM-15 for B-U-G rating. Electronic IES Files shall be submitted prior to award of contract. Fixture shall also meet Designlights Consortium Qualified Products List (DLC QPL) specifications and requirements.
- 4.5 Fixture shall be tested by a third party or NVLAP lab in accordance with the latest revision of LM-79 and LM-80. Documentation shall be submitted electronically to Engineering Standards after request from Austin Energy.

5.0 FIXTURE

- 5.1 The luminaire fixture shall be constructed of precision die cast aluminum with an extruded aluminum heat-sink element. The fixture shall enclose the slip fitter, LED's, surge protective device (SPD), and driver components. These components shall be mounted to the fixture by means of a quick disconnect for ease of maintenance.
- 5.2 The fixture shall be adequately enclosed with a metal wildlife guard to prevent entrance of birds in the electrical connection area and insects in the lamp area.
- 5.3 The upper and lower sections of the fixture shall be joined by an integrally cast hinge pin at the mounting end with a positive spring loaded latch or a stainless steel bail at the latch end.
 - 5.3.1 The hinge shall hold the lower section firmly in place when closed and shall be designed so that the lower section, when free-swinging, will not accidentally disengage.
 - 5.3.2 The latch shall secure the lower section of the fixture to the upper one, permit access to the lamp and electrical connection compartment and be operable with protective gloves but without tools.
- 5.4 Provisions shall be made within the luminaire to permit leveling of the unit.
 - 5.4.1 A leveling bubble device shall be mounted so as to be viewable from ground level.

- 5.5 The luminaire fixture shall be sufficiently sized to allow the operation of all components within their designed operating temperatures.
- 5.6 The complete luminaire shall have an effective projected area (EPA) not to exceed 1.5 sq. ft. and weight (including lamp) of less than 35 lbs.
- 5.7 Color of the luminaire shall be light gray polyester powder coat finish. The coating needs to be applied only to the outside of the fixture.
- 5.8 Materials and protective coatings used for the luminaire assembly, including but not limited to screws, bolts, latches, hinges and mounting assembly shall individually and as a system be resistant to atmospheric conditions, including the corrosive and erosive action of conditions of service encountered in industrial and seaboard areas. All screws, bolts, latches and hinges shall be made of stainless steel.
- 5.9 The optics enclosure of the fixture, driver, and SPD shall be rated IP 66 or better.
- 5.10 US, UL, DLC QPL, Outdoor and Wet Listed.
- 5.11 All LED fixtures shall be similar in shape and appearance to the Cooper NVN Navion LED light fixture.

6.0 SLIPFITTER

- 6.1 The slipfitter shall be capable of accepting a 1-1/4 in. through 2 in. O.D. pipe tenon with maximum allowable insertion lengths of 7-1/2 and 10 in. respectively, in accordance with table 2 of ANSI C136.3 latest revision thereof.
- 6.2 The slipfitter shall provide a shoulder or stop to limit the depth of insertion of the pipe tenon during installation.
- 6.3 The slipfitter shall have provisions for clamping the luminaire securely to the tenon and for leveling through no less than three (3) degrees from the axis of the attachment with respect to the horizontal.
- 6.4 The slipfitter shall be equipped with a fixed-in-place metal wildlife guard capable of accepting both 1-1/4-in. and 2 in. tenons.
- 6.5 Slipfitter shall be secured to the mast arm by a minimum of two (2) bolts or threaded studs for secure mounting.

7.0 PHOTOMETRICS

7.1 100 Watt Equivalent LED Luminaires

- 7.1.1 The 100-watt equivalent LED mast arm mounted luminaire shall be IES upright rating U0 and, when mounted 25 feet above the midpoint of either long side of a rectangular area 80 feet by 45 feet, shall provide a measured minimum intensity of 0.2 footcandle at any point on the surface of the area. The roadway width shall be thirty (30) feet wide with a mounting height of 25 feet when calculating photometrics. Luminaire location shall have a minimum spacing of 150 feet apart and maintain a minimum average of 0.5 footcandles. Grid point spaced according to IESNA RP-8 for a roadway with two 15 foot lanes.
- 7.1.2 The maximum to minimum horizontal illuminance uniformity ratio shall not exceed 12:1 within the above mentioned rectangular area.
- 7.1.3 The average to minimum ratio shall not exceed 4.0:1 within the above mentioned roadway area.
- 7.1.4 The luminaries shall meet the photometric requirements shown above, when energized at 100 percent of rated line voltage. Tests shall be run with the fixture in the level position.

- 7.1.5 The bidder shall provide certified test reports prior to award of contract for the 100 watt equivalent LED fixture, showing compliance to the specifications described herein. These test reports shall include, but not be limited to IES files and ISO ft.-candle contours with numeric points of light expressed in ft.-candles associated with each contour. The ISO ft.-candle contour shall be mapped on the horizontal planes with the location of the fixture clearly marked.
 - 7.1.6 The luminaries shall have a power factor > 0.90.
 - 7.1.7 The luminaries shall have a color temperature of 4000k, plus or minus 275k.
 - 7.1.8 The luminaries shall have a nominal CRI > 70 and a minimum CRI > 65.
 - 7.1.9 The luminaries shall have a efficacy of 92 lm/W or better.
 - 7.1.10 Fixture shall have > 92% lumen maintenance at 60,000 hours of minimum operational life at an average operating time of 11.5 hours per night at an ambient of 40 degrees Celsius.
 - 7.1.11 LLF as calculated in Section 8.
- 7.2 250 Watt Equivalent LED Luminaires
- 7.2.1 The 250-watt equivalent LED mast arm mounted luminaire shall be IES upright rating U0 and, when mounted 30 feet above the midpoint of either long side of a rectangular area 160 feet by 40 feet, shall provide a measured minimum intensity of 0.2 footcandle at any point on the surface of the area and an average of 0.60 footcandles or greater. Light intensities measured in footcandles along a line parallel to and 20 feet in from the long side of the previously defined rectangular area above which the luminaire is mounted shall decrease at a rate not to exceed 0.5 footcandle in any 10 foot interval along the aforementioned line from 10 to 80 feet on both sides of the luminaire and shall not be less than 0.3 footcandle at any point along such line. Grid point spaced according to IESNA RP-8 for a roadway with four 10 foot lanes.
 - 7.2.2 The maximum to minimum horizontal illuminance uniformity ratio shall not exceed 20:1 within the above mentioned rectangular area.
 - 7.2.3 The average to minimum ratio shall not exceed 3.0:1 within the above mentioned roadway area.
 - 7.2.4 The luminaires shall meet the photometric requirements shown above, when energized at 100 percent of rated line voltage. Tests shall be run with the fixture in the level position.
 - 7.2.5 The bidder shall provide certified test reports prior to award of contract for the 250 watt equivalent LED fixture, showing compliance to the specifications described herein. These test reports shall include, but not be limited to IES files and ISO ft.-candle contours with numeric points of light expressed in ft.-candles associated with each contour. The ISO ft.-candle contour shall be mapped on the horizontal planes with the location of the fixture clearly marked.
 - 7.2.6 The luminaries shall have a power factor > 0.90.
 - 7.2.7 The luminaries shall have a color temperature of 4000k, plus or minus 275k.
 - 7.2.8 The luminaries shall have a nominal CRI > 70 and a minimum CRI > 65.
 - 7.2.9 The luminaries shall have a efficacy of 92 lm/W or better.
 - 7.2.10 Fixture shall have > 92% lumen maintenance at 60,000 hours of minimum operational life at an average operating time of 11.5 hours per night at an ambient of 40 degrees Celsius.
 - 7.2.11 LLF as calculated in Section 8.

7.3 400 Watt Equivalent LED Luminaires

- 7.3.1 The 400-watt equivalent LED mast arm mounted luminaire shall be IES upright rating U0 and, when mounted 50 foot above the midpoint of either long side of a rectangular area 220 feet by 60 feet, shall provide a measured minimum intensity of 0.2 footcandles at any point on the surface of this area and an average of 0.60 footcandles or greater. Light intensities measured in footcandles along a line parallel to and 30 feet in from the long side of the previously defined rectangular area above when the luminaire is mounted shall decrease at a rate not to exceed 0.5 footcandles in any 10 foot interval along the aforementioned line from 10 to 90 feet on both sides of the luminaire and shall not be less than 0.3 footcandle at any point along such line. Grid point spaced according to IESNA RP-8 for a roadway with four 15 foot lanes.
- 7.3.2 The maximum to minimum horizontal illuminance uniformity ratio shall not exceed 20:1 within the above mentioned rectangular area.
- 7.3.3 The average to minimum ratio shall not exceed 3.0:1 within the above mentioned roadway area.
- 7.3.4 The Luminaires shall meet the photometric requirements shown above, when energized at 100 percent of rated line voltage. Tests shall be run with the fixture in the level position.
- 7.3.5 The bidder shall provide certified test reports prior to the award of contract for the 400 watt equivalent LED fixture, showing compliance to the specifications described herein. These test reports shall include, but not be limited to IES files and ISO ft.-candle contours with numeric points of light expressed in ft.-candles associated with each contour. The ISO ft.-candle contour shall be mapped on the horizontal planes with the location of the fixture clearly marked.
- 7.3.6 The luminaries shall have a power factor > 0.90.
- 7.3.7 The luminaries shall have a color temperature of 4000k, plus or minus 275k.
- 7.3.8 The luminaries shall have a nominal CRI > 70 and a minimum CRI > 65.
- 7.3.9 The luminaries shall have a efficacy of 92 lm/W or better.
- 7.3.10 Fixture shall have > 92% lumen maintenance at 60,000 hours of minimum operational life at an average operating time of 11.5 hours per night at an ambient of 40 degrees Celsius.
- 7.3.11 LLF as calculated in Section 8.

7.4 Luminaire Up Light

- 7.4.1 All Luminaires shall be U0 with no light above 90 degrees per the photometric requirements listed above. Luminaire shall have a B-U-G rating with an Uplight value of U0.
- 7.5 Individual LED's shall be constructed such that a catastrophic loss or failure of one LED will not result in the loss of the entire fixture.

8.0 **LIGHT LOSS FACTOR CALCULATION**

- 8.1 Calculations shall be for maintained values, i.e. Light Loss Factor (LLF) < 1.0, where $LLF = LLD \times LDD \times LATF$, and
 - 8.1.1 Lamp Lumen Depreciation (LLD) factor shall be provided in the manufacturer's documentation per TM-21 calculations.
 - 8.1.2 Luminaire Dirt Depreciation (LDD) = 0.90, as per IES DG-4 for an enclosed and gasketed roadway luminaire installed in an environment with less than $150 \mu\text{g}/\text{m}^3$ airborne particulate matter and cleaned every four years.

8.1.3 Luminaire Ambient Temperature Factor (LATF) = 1.00

9.0 TERMINAL BOARD

- 9.1 The terminal board shall be a three (3) position type molded plastic, porcelain or buyer approved equivalent material with protective barriers between each contact the terminal board shall be mounted to the upper fixture section of the luminaire.
- 9.2 All contact on the terminal board shall be captive type corrosion resistant with slotted head screws and equipped with wire grips and capable of accepting number 6 to number 14 AWG stranded or solid aluminum or copper conductors.
- 9.3 The terminal board shall be located so that there is adequate accessibility to it for connecting the supply leads when wearing rubber protective gloves and without the removal or replacement of internal components.
- 9.4 Components shall be pre-wired to the terminal board requiring only power connection to clearly identified terminals. A green insulated #12 stranded wire shall be prewired from the housing ground terminal to the ground terminal on the terminal board. Ring terminals shall be used for the connecting of the wire. The wiring diagram shall be permanent, apparent, legible, and affixed inside the luminaire. The diagram shall indicate the photoelectric receptacle, SPD and driver circuit, the LED board and coded terminal block connections.
- 9.5 All wire shall be insulated at a minimum to operate at 125 degrees centigrade.
- 9.6 All wire connectors shall be made with "amp type" push on terminal connectors. Wire nuts are unacceptable.

10.0 PHOTOELECTRIC CONTROL RECEPTACLE

- 10.1 Photoelectric control receptacle shall be molded plastic and shall be capable of securely positioning the photoelectric control in any necessary direction.
- 10.2 Electric contacts of the photoelectric control receptacle shall be tin plated bronze. Plated steel contacts are not acceptable.
- 10.3 Photoelectric control receptacle shall meet all applicable provisions of ANSI C136.10 and ANSI C136.41, latest revision.
- 10.4 Receptacle shall be 7-pole 7-wire locking type and shall be pre-wired to the terminal board.
- 10.5 Receptacle shall be ROAM compatible with integral dimming control capabilities.

11.0 DRIVER/SURGE PROTECTOR DEVICE (SPD)

- 11.1 Fixture driver shall be dimmable and compatible with ROAM lighting control system.
- 11.2 The 120V, 10kA surge protection device (SPD) shall meet or exceed ANSI C136.2 10kV BIL, UL 1449 and ANSI/IEEE C62.41-2002 Category C High Exposure; MVOLT surge protection shall meet or exceed Category C. Surge protection shall be separate from the driver. If the SPD should fail in such a way, the luminaries will no longer operate and the SPD shall be field replaceable.

12.0 IDENTIFICATION

- 12.1 Manufacturers shall permanently attach the following information to the inside wall of the upper or main housing:
 - 12.1.1 Manufacturers name
 - 12.1.2 Manufacturers catalog number and type

- 12.1.3 Date of manufacturer (Codes are not accepted)
 - 12.1.4 Lamp Wattage
 - 12.1.5 Lamp IES designation and type
 - 12.1.6 Primary voltage
 - 12.1.7 Primary current
 - 12.1.8 Wiring diagram corresponding to the components installed.
- 12.2 Fixture wattage decal shall be specified as in ANSI C136.15, latest revision. Decal shall resist cracking, peeling, and fading for a period of ten (10) years.
- 12.3 Luminaire wattage marking location shall be secured to the underside of the luminaire, approximately five (5) inches toward the pole from the edge of the glassware.

13.0 PACKAGING

- 13.1 Fixture shall be packaged in one (1) box with cushion support protection to prevent damage to the fixture and any of its components' parts during shipping and handling.
- 13.2 AE commodity stock number will be two (2) in. block numerals on each box as follows:
- 13.2.1 100-watt equivalent, stock number
#22567
 - 13.2.2 250-watt equivalent, stock number
#23547
 - 13.2.3 400-watt equivalent, stock number
#23548
- 13.3 Boxes shall be palletized on 48-in. x 40-in. 4-way entry hardware pallets.

ENERGY

PURCHASE SPECIFICATION

FOR

LUMINAIRES,DISTRIBUTION,OH,1PH,100W,250W,400W,120-277V,HIGH PRESSURE SODIUM,COBRAHEAD

<u>DATE</u>	<u>PREPARED BY</u>	<u>ISSUANCE/REVISION</u>	<u>APPROVAL</u> <u>DIVISION MANAGER/STANDARDS MANAGER</u>
12/14/94	Steve Booher	Issuance	Richard Dreiss / Peter G. Soosay
01/25/95	Steve Booher	Revision	Richard Dreiss / Peter G. Soosay
01/31/95	Steve Booher	Revision	Carl Lynch / Richard Dreiss
11/30/95	Steve Booher	Revision	Peter G. Soosay / Steve Booher
06/03/96	Steve Booher	Revision	Brian Davison / Peter G. Soosay
07/08/96	Steve Booher	Revision	/ Steve Booher
06/27/97	Raymond Green	Revision	Carl Lynch / William Germany
09/22/97	Herman Millician	Revision	Matt Monroe / William Germany
02/04/99	George Martinez	Revision	Arastou Oskoui / David Sloan
04/26/02	Peter G. Soosay	Revision	Peter Soosay
01/03/03	Steve Booher	Revision	Steve Booher
10/04/07	Marvin Johnson	Revision	Ted Schoenberg
10/21/08	Arthur Gonzalez	Revision	Ted Schoenberg

<u>REASON FOR REVISION</u>	<u>AFFECTED PARAGRAPHS</u>
Basic Housekeeping	Various

This specification, until rescinded, shall apply to each future purchase and contract for the commodity described herein.
Retain for future reference.

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AUSTIN ENERGY
PURCHASE SPECIFICATION
FOR
HIGH-PRESSURE SODIUM LUMINAIRES

1.0 SCOPE

This specification shall define the minimum physical and electrical characteristics required by Austin Energy (AE) for high-pressure sodium (HPS) luminaires of the enclosed, side-mounted, horizontal-burning type which have integral ballasts and photoelectric control receptacles.

2.0 CLASSIFICATION

The requirements herein shall apply to HPS luminaires of the following wattages, style, and voltage.

- 2.1 100-watt, high-pressure sodium, flat glass, 120-volt "cobrahead" with photo control receptacles and photometrics in compliance with section 9.1 of this specification.
- 2.2 250-watt, high-pressure sodium, flat glass, 120/208/240/277-volt "cobrahead" with photo control receptacles and photometrics in compliance with section 9.2 of this specification.
- 2.3 400-watt, high-pressure sodium, flat glass, 120/208/240/277-volt "cobrahead" with photo control receptacles and photometrics in compliance with section 9.3 of this specification.

3.0 APPLICABLE STANDARDS

All characteristics, definitions, and terminology, except as specifically covered in this specification shall be in accordance with the latest revision of the following ANSI standards:

- 3.1 ANSI C 78.1350
Electric lamp - 400-watt, 100-volt, S51 single-ended high-pressure sodium lamps.
- 3.2 ANSI C 78.1351
Electric lamp - 250-watt, 100-volt, S50 single-ended high-pressure sodium lamps.
- 3.3 ANSI C 78.1354
Electric lamp - 100-watt, 55-volt, S54 single-ended high-pressure sodium lamps.
- 3.4 ANSI C82.4
Ballasts for high-intensity discharge and low-pressure sodium
- 3.5 ANSI C82.6
Reference, ballasts for high-intensity discharge lamps.
- 3.6 ANSI C82.9
High-intensity discharge and low-pressure sodium lamps, ballasts, and transformers.
- 3.7 ANSI C136.2
Roadway lighting luminaires - voltage classification.
- 3.8 ANSI C136.3
Roadway lighting equipment luminaire attachments.
- 3.9 ANSI C136.10
Roadway lighting equipment locking-type photocontrol devices and mating receptacles physical and electrical interchangeability and testing.

- 3.10 ANSI C136.1110
Roadway lighting equipment - multiple sockets.
- 3.11 ANSI C136.14
Roadway lighting equipment, enclosed side-mounted luminaires for horizontal burning high-intensity discharge lamps.
- 3.12 ANSI C136.15
Roadway lighting high-intensity discharge and low-pressure sodium lamp in luminaires - Field identification.
- 3.13 ANSI/IES RP-8
Practice for roadway lighting.

4.0 HOUSING

- 4.1 The luminaire shall consist of precision die cast aluminum upper and lower housings. The housing shall enclose the slipfitter, reflector, lamp socket, terminal board, capacitor, starter circuit, and ballast components. These components shall be mounted to the housing.
- 4.2 The housing shall be adequately enclosed to prevent entrance of birds in the ballast area and insects in the lamp area.
- 4.3 The upper and lower housing shall be joined by an integrally cast hinge pin at the mounting end with a positive spring loaded latch or a stainless steel bail at the latch end.
 - 4.3.1 The hinge shall hold the lower housing firmly in place when closed and shall be designed so that the lower housing, when free-swinging, will not accidentally disengage or cause the refractor to break or fall out.
 - 4.3.2 The latch shall secure the lower housing to the upper one, permit access to the lamp and ballast compartment and be operable with protective gloves but without tools.
- 4.4 Provisions shall be made within the luminaire to permit leveling of the unit.
 - 4.4.1 A leveling bubble device shall be mounted so as to be viewable from ground level.
- 4.5 The luminaire housing shall be sufficiently sized to allow the operation of all components within their designed operating temperatures.
- 4.6 The complete luminaire shall have an effective projected area (EPA) not to exceed 1.6 sq. ft. and weight (including lamp) of less than 60 lbs.
- 4.7 Color of the luminaire shall be light gray polyester powder coat finish. The coating needs to be applied only to the outside of the housing.
- 4.8 Materials and protective coatings used for the luminaire assembly, including but not limited to screws, bolts, latches, hinges, mounting assembly and reflector shall individually and as a system be resistant to atmospheric conditions, including the corrosive and erosive action of conditions of service encountered in industrial and seaboard areas.

5.0 SLIPFITTER

- 5.1 The slipfitter shall be capable of accepting a 1-1/4 in. through 2 in. O.D. pipe tenon with maximum allowable insertion lengths of 7-1/2 and 10 in. respectively, in accordance with table 2 of ANSI C136.3 latest revision thereof.
- 5.2 The slipfitter shall provide a shoulder or stop to limit the depth of insertion of the pipe tenon during installation.
- 5.3 The slipfitter shall have provisions for clamping the luminaire securely to the tenon and for leveling through no less than three (3) degrees from the axis of the attachment with respect to the horizontal.

- 5.4 The slipfitter shall be equipped with a fixed-in-place wildlife guard capable of accepting both 1-1/4-in. and 2 in. tenons.
- 5.5 Slipfitter shall be secured to the mast arm by a minimum of two (2) bolts or threaded studs for secure mounting.

6.0 LAMP SOCKET

- 6.1 The socket shall be multiple mogul type of the 600-volt classification, starting pulse rated, meeting or exceeding all electrical and physical requirements of ANSI C136.11, latest revision.
- 6.2 The socket shall be adjustable horizontally and vertically to provide light patterns in accordance with ANSI/IES RP-8-1983 Appendix E. The lamp socket shall be positioned such that lamp installation and removal can be accomplished in all possible socket light distribution positions. Sufficient markings shall be present to allow for pre-setting the socket for specific light distribution patterns.
- 6.3 The socket screw shell and other metal parts shall be made of copper, copper alloy, or stainless steel. Copper or copper alloy screw shells shall be plated with nickel.
- 6.4 The socket body shall be made of glazed porcelain. The socket base shall be constructed in such a manner that the socket contacts remain stationary. The center contact inside the socket ball shall be spring loaded to provide lamp gripping action and reduce lamp failures due to excessive vibration.
- 6.5 The socket shall include a lamp support/snubber/vibration dampener to minimize lamp vibration.

7.0 REFLECTOR

- 7.1 The reflector shall be of precisely contoured, one-piece aluminum construction, permanently polished and finished with alzak, or buyer approved equivalent, over the entire reflective surface.
- 7.2 The reflector shall be secured in such a manner that it remains securely in place with the lower housing open or closed and shall be effectively sealed from the refractor by cold and heat resistant, non-moisture absorbing, chemically treated polyester felt. The gasket splice shall be made to prevent a joint gap over time.
- 7.3 The reflector shall be designed to assure maximum utilization of all light without reflecting adverse amounts of light through the lamp ARC tube.

8.0 LENSES

- 8.1 The lens shall be secured to the lower housing by one or more movable support(s) so that it remains securely in place with the door open or closed and may be removed from the lower housing while the housing is open. The lens shall be removable without tools or with a blade-type screwdriver.
- 8.2 The lens' physical characteristics shall conform to ANSI C136.17 latest revision.
- 8.3 The refractor's optical characteristics shall conform to the latest IES Standards and its design shall insure maximum uniformity and utilization of the light generated for lighting the roadway surface.
- 8.4 Lenses for the 100, 250, and 400-watt luminaires shall be made of flat heat tempered glass.

9.0 PHOTOMETRICS

- 9.1 100 Watt, HPS Luminaires
 - 9.1.1 The 100-watt mast arm mounted luminaire shall be IES Type cutoff and, when mounted 26 feet above the midpoint of either long side of a rectangular area 80 feet by 45 feet, shall provide a measured minimum intensity of 0.2 footcandle at any point on the surface of the area. The roadway width shall be thirty (30) ft wide when calculating Photometrics. Luminaire location shall have a minimum spacing of 135 ft apart and maintain a minimum average of 0.80 footcandles.

- 9.1.2 The maximum to minimum horizontal illuminance uniformity ratio shall not exceed 16:1 within the above mentioned rectangular area.
 - 9.1.3 The luminaries shall meet the photometric requirements shown above, when energized at 100 percent of rated line voltage. Tests shall be run with the fixture in the level position.
 - 9.1.4 The bidder shall provide certified test reports prior to award of contract for the 100 watt HPS fixture, showing compliance to the specifications described herein. These test reports shall include, but not be limited to IES files and ISO ft.-candle contours with numeric points of light expressed in ft.-candles associated with each contour. The ISO ft.-candle contour shall be mapped on the horizontal planes with the location of the fixture clearly marked.
- 9.2 250 Watt, HPS Luminaires
- 9.2.1 The 250-watt mast arm mounted luminaire shall be IES Type cutoff and, when mounted 40 feet above the midpoint of either long side of a rectangular area 190 feet by 45 feet, shall provide a measured minimum intensity of 0.2 footcandle at any point on the surface of the area. Light intensities measured in footcandles along a line parallel to and 20 feet in from the long side of the previously defined rectangular area above which the luminaire is mounted shall decrease at a rate not to exceed 0.5 footcandle in any 10 foot interval along the aforementioned line from 10 to 90 feet on both sides of the luminaire and shall not be less than 0.3 footcandle at any point along such line.
 - 9.2.2 The maximum to minimum horizontal illuminance uniformity ratio shall not exceed 20:1 within the above mentioned rectangular area.
 - 9.2.3 The luminaires shall meet the photometric requirements shown above, when energized at 100 percent of rated line voltage. Tests shall be run with the fixture in the level position.
 - 9.2.4 The bidder shall provide certified test reports prior to award of bid for the 250 watt HPS fixture, showing compliance to the specifications described herein. These test reports shall include, but not be limited to IES files and ISO ft.-candle contours with numeric points of light expressed in ft.-candles associated with each contour. The ISO ft.-candle contour shall be mapped on the horizontal planes with the location of the fixture clearly marked.
- 9.3 400 Watt, HPS Luminaires
- 9.3.1 The 400-watt mast arm mounted luminaire shall be IES Type cutoff and, when mounted 50 foot above the midpoint of either long side of a rectangular area 220 feet by 60 feet, shall provide a measured minimum intensity of 0.2 footcandles at any point on the surface of this area. Light intensities measured in footcandles along a line parallel to and 30 feet in from the long side of the previously defined rectangular area above when the luminaire is mounted shall decrease at a rate not to exceed 0.5 footcandles in any 10 foot interval along the aforementioned line from 10 to 90 feet on both sides of the luminaire and shall not be less than 0.3 footcandle at any point along such line.
 - 9.3.2 The maximum to minimum horizontal illuminance uniformity ratio shall not exceed 20:1 within the above mentioned rectangular area.
 - 9.3.3 The Luminaires shall meet the photometric requirements shown above, when energized at 100 percent of rated line voltage. Tests shall be run with the fixture in the level position.
 - 9.3.4 The bidder shall provide certified test reports prior to the award of bid for the 400 watt HPS fixture, showing compliance to the specifications described herein. These test reports shall include, but not be limited to IES files and ISO ft.-candle contours with numeric points of light expressed in ft.-candles associated with each contour. The ISO ft.-candle contour shall be mapped on the horizontal planes with the location of the fixture clearly marked.

9.4 Luminaire Up Light

- 9.4.1 All Luminaires shall be full cut-off with no light above 90 degrees per the photometric requirements listed above.

10.0 TERMINAL BOARD

- 10.1 The terminal board shall be a three (3) position type molded plastic, porcelain or buyer approved equivalent material with protective barriers between each contact the terminal board shall be mounted to the upper housing of the luminaire.
- 10.2 All contact on the terminal board shall be captive type corrosion resistant with slotted head screws and equipped with wire grips and capable of accepting number 6 to number 14 AWG stranded or solid aluminum or copper conductors.
- 10.3 The terminal board shall be located so that there is adequate accessibility to it for connecting the supply leads when wearing rubber protective gloves and without the removal or replacement of internal components.
- 10.4 Components shall be pre-wired to the terminal board requiring only power connection to clearly identified terminals. A green insulated #12 stranded wire shall be prewired from the housing ground terminal to the ground terminal on the terminal board. The wiring diagram shall be permanent, apparent, legible, and affixed inside the luminaire. The diagram shall indicate the ballast, socket, photoelectric receptacle, starter circuit and coded terminal block connections.
- 10.5 All wire shall be insulated at a minimum to operate at 125 degrees centigrade.
- 10.6 All wire connectors shall be made with "amp type" push on terminal connectors. Wire nuts are unacceptable.

11.0 PHOTOELECTRIC CONTROL RECEPTACLE

- 11.1 Photoelectric control receptacle shall be molded plastic and shall be capable of securely positioning the photoelectric control in any necessary direction.
- 11.2 Electric contacts of the photoelectric control receptacle shall be tin plated bronze. Plated steel contacts are not acceptable.
- 11.3 Photoelectric control receptacle shall meet all applicable provisions of ANSI C136.10, latest revision.
- 11.4 Receptacle shall be 3-pole 3-wire locking type and shall be pre-wired to the terminal board.

12.0 BALLAST ASSEMBLY

- 12.1 Ballast core lamination shall be of high-quality electrical grade steel welded together. Coil winding shall be copper.
- 12.2 Ballast coils shall be bobbin or precision wound. Terminal shall be push-on type connection.
- 12.3 Starting circuit shall be easily accessible for removal and replacement without disturbing other components of the total ballast assembly and without the use of tools. The starter receptacle shall be of the plug-in type, capable of accepting a two-terminal replacement plug-in starter or a three-terminal replacement plug-in starter and must meet or exceed ANSI standards.
- 12.4 For all combinations of lamp voltage and line voltage variation within rating, the ballast shall operate the lamp within wattage limits as specified by the lamp manufacturer.
- 12.5 Ballast shall provide a minimum basic impulse level of 10 kV when tested in accordance with ANSI C82.4, sec. 6.2, latest revision.

- 12.6 Ballast and starting aid shall be designed to protect itself against normal lamp failure modes. Ballast shall be capable of operation with the lamps in the open circuit or closed circuit failure condition for at least six (6) months.
- 12.7 Ballasts shall be in full compliance with current lamp manufacturer's lamp-ballast specifications.
- 12.8 Ballasts for wattages of 100 watts shall be 10% regulated, for use in a single 120 volts source. Ballasts in wattages of 250 and 400 watts shall be, 10% regulated, with taps for multi-voltage operation (120V, 208V, 240V, 277V) but shall be connected at the factory for 120 volt operation unless otherwise specified at time of purchase. A permanent wiring diagram indicating voltage connections and circuitry shall be affixed on or near each ballast within the luminaire.
- 12.9 Ballasts shall be designed for the following nominal lamp voltage and wattage combinations:

LAMP WATTS	LAMP VOLTS
100	55
250	100
400	100

- 12.10 Ballasts shall be Constant Wattage Auto Regulated and shall conform to the following performance criteria:
 - 12.10.1 Power factor shall exceed 90% for nominal lamps and 65% end of life
 - 12.10.2 Starting current shall not exceed 100% of operating current
 - 12.10.3 Lamp current crest factor (the ratio of peak to RMS lamp operating current) shall not exceed 1.8 for any lamp voltage from nominal to end of life

13.0 IDENTIFICATION

- 13.1 Manufacturers shall permanently attach the following information to the inside wall of the upper or main housing:
 - 13.1.1 Manufacturers name
 - 13.1.2 Manufacturers catalog number and type
 - 13.1.3 Date of manufacturer (Codes are not accepted)
 - 13.1.4 Lamp Wattage
 - 13.1.5 Lamp IES designation and type
 - 13.1.6 Primary voltage
 - 13.1.7 Primary current
 - 13.1.8 Wiring diagram corresponding to the components and with the manufacturer's ballast installed.
- 13.2 Fixture wattage decal shall be specified as in ANSI C136.15, latest revision. Decal shall resist cracking, peeling, and fading for a period of ten (10) years.
- 13.3 Luminaire wattage marking location shall be secured to the underside of the luminaire, approximately five (5) inches toward the pole from the edge of the glassware.

14.0 PACKAGING

- 14.1 Fixture shall be packaged in one (1) box with cushion support protection to prevent damage to the fixture and any of its components' parts during shipping and handling.

14.2 AE commodity stock number will be two (2) in. block numerals on each box as follows:

14.2.1 100-watt, stock number
#6192

14.2.2 250-watt, stock number
#6193

14.2.3 400-watt, stock number
#6194

14.3 Boxes shall be palletized on 48-in. x 40-in. 4-way entry hardware pallets.

**BID SHEET
CITY OF AUSTIN
STREET LIGHT LAMPS & LUMINAIRES PRICE AGREEMENT**

BID NO. GGU0148

RX NO. RQM 15070100412

DATE: SEPTEMBER 9, 2015

BUYER: Gabriel Guerrero

NOTICE TO BIDDERS:

IN ORDER TO PERFORM A TECHNICAL EVALUATION OF THE BIDS SUBMITTED FOR THIS SOLICITATION, BIDDERS MUST CHECK THE APPROPRIATE APPROVED BRAND OR INDICATE AN EQUAL IN THE SPACE PROVIDED.

Special Instructions: Be advised that exceptions taken to any portion of the solicitation may jeopardize acceptance of the bid.

*******THE QUANTITIES REQUESTED ARE ANNUAL ESTIMATES*******

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
001	<p>100 WATT, HIGH-PRESSURE SODIUM LAMP SHALL CONTAIN UP TO 90% LESS MERCURY THAN A STANDARD HIGH-PRESSURE SODIUM LAMP. LAMP SHALL INCLUDE A WELDED, LEAD-FREE BRASS BASE, SHALL PASS THE EXISTING FEDERAL TCLP LIMITS AND BE RATED FOR 30,000 HOURS LIFE. LAMP SHALL BE A DIRECT RETROFIT ON EXISTING ANSI DESIGNATED BALLASTS OF SIMILAR WATTAGE OF STANDARD HIGH-PRESSURE SODIUM LAMPS AND SHALL MEET EXISTING ANSI SPECIFICATIONS FOR THOSE CORRESPONDING WATTAGES. LAMP SHALL HAVE NO MORE THAN THE SAME WARM-UP TIME AND HOT RESTRIKE TIME AS A STANDARD HIGH-PRESSURE SODIUM LAMP. LAMP SHALL BE NON-CYCLING AND SHALL REMAIN OFF AT THE END OF LIFE. ON QUALIFIED PRODUCTS LIST EL-202.</p> <p>AE STOCK NO. 6105</p> <p>APPROVED BRANDS: GE LIGHTING (14673); SYLVANIA (LU100/PLUS/ECO)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	3,340	EA	\$	\$
002	<p>250 WATT, HIGH-PRESSURE SODIUM LAMP SHALL CONTAIN UP TO 90% LESS MERCURY THAN A STANDARD HIGH-PRESSURE SODIUM LAMP. LAMP SHALL INCLUDE A WELDED, LEAD-FREE BRASS BASE, SHALL PASS THE EXISTING FEDERAL TCLP LIMITS AND BE RATED FOR 30,000 HOURS LIFE. LAMP SHALL BE A DIRECT RETROFIT ON EXISTING ANSI DESIGNATED BALLASTS OF SIMILAR WATTAGE OF STANDARD HIGH-PRESSURE SODIUM LAMPS AND SHALL MEET EXISTING ANSI SPECIFICATIONS FOR THOSE CORRESPONDING WATTAGES. LAMP SHALL HAVE NO MORE THAN THE SAME WARM-UP TIME AND HOT RESTRIKE TIME AS A STANDARD HIGH-PRESSURE SODIUM LAMP. LAMP SHALL BE NON-CYCLING AND SHALL REMAIN OFF AT THE END OF LIFE. ON QUALIFIED PRODUCTS LIST EL-202. AE STOCK NO. 6104</p> <p>APPROVED BRAND: GE LIGHTING (14674); SYLVANIA (LU250/PLUS/ECO)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	1,050	EA	\$	\$

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003	<p>LAMP, HIGH PRESSURE SODIUM, MOGUL BASE, 150 WATT. ON QUALIFIED PRODUCTS EL-202 AE STOCK NO. 6110</p> <p>APPROVED BRANDS: GE LIGHTING (N/A); LITETRONICS (L-4116); PHILIPS (N/A); SYLVANIA (N/A)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	50	EA	\$	\$
004	<p>400 WATT, HIGH-PRESSURE SODIUM LAMP SHALL CONTAIN UP TO 90% LESS MERCURY THAN A STANDARD HIGH-PRESSURE SODIUM LAMP. LAMP SHALL INCLUDE A WELDED, LEAD-FREE BRASS BASE, SHALL PASS THE EXISTING FEDERAL TCLP LIMITS AND BE RATED FOR 30,000 HOURS LIFE. LAMP SHALL BE A DIRECT RETROFIT ON EXISTING ANSI DESIGNATED BALLASTS OF SIMILAR WATTAGE OF STANDARD HIGH-PRESSURE SODIUM LAMPS AND SHALL MEET EXISTING ANSI SPECIFICATIONS FOR THOSE CORRESPONDING WATTAGES. LAMP SHALL HAVE NO MORE THAN THE SAME WARM-UP TIME AND HOT RESTRIKE TIME AS A STANDARD HIGH-PRESSURE SODIUM LAMP. LAMP SHALL BE NON-CYCLING AND SHALL REMAIN OFF AT THE END OF LIFE. ON QUALIFIED PRODUCTS LIST EL-202. AE STOCK NO. 6103</p> <p>APPROVED BRANDS: GE LIGHTING (LU400/ECO/NC); SYLVANIA, (LU400/PLUS/ECO)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	660	EA	\$	\$
005	<p>LAMP, METAL HALIDE, 100 WATT, MOGUL BASE, CLEAR, ED28 OR BT28 BULB, UNIVERSAL POSITION, MINIMUM 10,000 HRS. RATED AVERAGE LIFE, 20,500 MINIMUM INITIAL LUMENS, FOR METAL HALIDE LUMINAIRES. ON QUALIFIED PRODUCTS LIST EL1553. AE STOCK NO. 1679</p> <p>APPROVED BRANDS: GE LIGHTING (MVR 100/U); PHILIPS (MH100/U/ED28/HR); SYLVANIA (M100/U); VENTURE LGHT (MH100W/U/ED28)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	150	EA	\$	\$
006	<p>LAMP, METAL HALIDE, 250 WATT, MOGUL BASE, CLEAR, ED28 OR BT28 BULB, UNIVERSAL POSITION, MINIMUM 10,000 HRS. RATED AVERAGE LIFE, 20,500 MINIMUM INITIAL LUMENS, FOR METAL HALIDE LUMINAIRES. ON QUALIFIED PRODUCTS LIST EL1553. AE STOCK NO. 1678</p> <p>APPROVED BRANDS: CEW (MX250/U); EYE LAMPS (MX250/U); GE LIGHTING (MVR250/U); LITETRONICS (L-845); PHILIPS (MH2504 274845)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$

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007	<p>LAMP, METAL HALIDE, 400WATT, MOGUL BASE, CLEAR, ED28 OR BT28 BULB, UNIVERSAL POSITION, MINIMUM 12,000HRS RATED AVERAGE LIFE, 36,000 MINIMUM INITIAL LUMENS, FOR METAL HALIDE COBRAHEAD AND SHOEBOX FIXTURES. ON QUALIFIED PRODUCTS LIST EL1553. AE STOCK NO. 1688</p> <p>APPROVED BRANDS: EYE LAMPS (MX400/U/ED28); GE LIGHTING (MVR400/U/ED28); PHILIPS (MH400/U/ED28); SYLVANIA (M400/U/BT-28); VENTURE LGHT (MH400/U)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	410	EA	\$	\$
008	<p>LAMP, METAL HALIDE, MOGUL BASE, CLEAR, E37 BULB, BURN BASE DOWN, 400 WATT, FOR METAL HALIDE LUMINAIRES. ON QUALIFIED PRODUCTS LIST EL1553 AE STOCK NO. 6130</p> <p>APPROVED BRANDS: GE LIGHTING (MVR 400/U); PHILIPS (MH400/U 344150); SYLVANIA, (M400/U)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	10	EA	\$	\$
009	<p>LAMP, METAL HALIDE, MOGUL BASE, BT-56 BULB, UNIVERSAL BURN BASE, 1000 WATT. ON QUALIFIED PRODUCTS LIST EL1553 AE STOCK NO. 6134</p> <p>APPROVED BRANDS: EYE LAMPS (M1000/U); GE LIGHTING (MVR1000/U); PHILIPS (MH100 298265); SYLVANIA (M1000/U)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	30	EA	\$	\$
010	<p>LAMP, METAL HALIDE, MOGUL BASE, BT-56 BULB, BURN BASE UP TO HORIZONTAL, 1500 WATT. ON QUALIFIED PRODUCTS LIST EL1553 AE STOCK NO. 6132</p> <p>APPROVED BRANDS: GE LIGHTING (MVR1500/HBU/E); PHILIPS (MH1500U 131623); SYLVANIA (M1500/BU-HOR); VENTURE LGHT , (MH 1500W/U/XL)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	205	EA	\$	\$
011	<p>LAMP, PULSE START METAL HALIDE, 250W, MOGUL BASE, CLEAR, UNIVERSAL POSITION, MINIMUM 10,000 HRS. RATED AVERAGE LIFE, 20,500 MINIMUM INITIAL LUMENS, EFFICIENCY REQUIREMENT OF 88%, FOR PULSE START METAL HALIDE LUMINAIRES ONLY. AE STOCK NO. 22378</p> <p>APPROVED BRANDS: SYLVANIA, (M150/SS/U/BT-28)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	250	EA	\$	\$

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012	<p>LAMP, PULSE START METAL HALIDE, 400W, MOGUL BASE, CLEAR, BT-28, UNIVERSAL POSITION, MINIMUM 10,000 HRS. RATED AVERAGE LIFE, 20,500 MINIMUM INITIAL LUMENS, EFFICIENCY REQUIREMENT OF 88%, FOR PULSE START METAL HALIDE LUMINAIRES ONLY. AE STOCK NO. 22379</p> <p>APPROVED BRANDS: SYLVANIA, (M400/PS/U/BT-28)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$
013	<p>LAMP, INCANDESCENT, 130 VOLT, 500 WATT, PS-40 BULB, MOGUL BASE, 5 INCH DIAMETER, 9-3/4 INCH NOMINAL LENGTH, 2500 AVERAGE LAMP HOURS, 9070 INITIAL LUMENS, CLEAR. ON QUALIFIED PRODUCTS LIST EL-202 AE STOCK NO. 6086</p> <p>APPROVED BRANDS: GE LIGHTING (500PS40); PHILLIPS LPS, (UNKNOWN); SYLVANIA, (UNKNOWN)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	10	EA	\$	\$
014	<p>LAMP, INCANDESCENT, 130 VOLT, 150 WATT, A-21 BULB, MEDIUM BASE, 2-5/8 INCH DIAMETER, 5-5/16 INCH NOMINAL LENGTH, 750 AVERAGE LAMP HOURS, 2850 INITIAL LUMENS, INSIDE FROSTED COLOR. ON QUALIFIED PRODUCTS LIST EL-202 AE STOCK NO. 6056</p> <p>APPROVED BRANDS: GENERAL ELEC (150A/135WM-130)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	240	EA	\$	\$
015	<p>BRACKET, MOUNTING, ASSEMBLY AS PER DRAWING 1928-60, REV. 10/3/14, WOOD POLE FLOODLIGHT. ON QUALIFIED PRODUCTS LIST EL-144. AE STOCK NO. 6746</p> <p>APPROVED BRANDS: SALCO (AMP1 (SPECIAL); WIDE-LITE (PM1)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	15	EA	\$	\$
016	<p>RECEPTACLE, PHOTO CONTROL, WEATHER PROOF LOCKING TYPE, 15 AMP RATING, 120V, WITH ANGLE BRACKET, IN ACCORDANCE WITH EE1 SPECIFICATION TDJ-146 (NEMA SM-16). ON QUALIFIED PRODUCTS LIST EL1324 AE STOCK NO. 6768</p> <p>APPROVED BRANDS: HD ELECT/FP (S476-71); PRECISION, (M2A)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	120	EA	\$	\$

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017	<p>RELAY, MULTIPLE, OPEN LOAD CONTRACTOR, HEAVY DUTY LOAD CONTACTS, 30 AMP, NORMALLY OPEN, NORMALLY CLOSED DOUBLE THROW, 120 VOLTS. ON QUALIFIED PRODUCTS LIST EL147 AE STOCK NO. 6234</p> <p>APPROVED BRANDS: TRINETICS, (MR/R-SC)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	30	EA	\$	\$
018	<p>ST LIGHT LED 75W MVOLT. DEGREES FROM THE AXIS OF THE ATTACHMENT WITH RESPECT TO THE HORIZONTAL. FIXTURE SHALL HAVE WILDLIFE INTRUSION PROTECTION. DIE-CAST ALUMINUM CONSTRUCTION, TOOL-LESS ENTRY WITH TWIN STAINLESS STEEL LATCHES. HOUSING SHALL NOT BE CONSTRUCTED OF POLYCARBONATE. THE FIXTURE SHALL HAVE A THREE POSITION TYPE MOLDED PLASTIC TERMINAL BLOCK. THE TERMINAL BLOCK SHALL HAVE PROTECTIVE BARRIERS BETWEEN EACH CONTACT. THE CONTACTS ON THE TERMINAL BLOCK SHALL BE CAPTIVE TYPE CORROSION RESISTANT WITH SLOTTED HEAD SCREWS AND SHALL BE CAPABLE OF ACCEPTING 6 AWG TO 14 AWG STRANDED OR SOLID ALUMINUM OR COPPER CONDUCTORS. THE TERMINAL BLOCK SHALL HAVE A #12 AWG GREEN GROUND WIRE FROM THE TERMINAL BLOCK GROUND POSITION TO THE FIXTURE GROUNDING POINT. RING TERMINALS SHALL BE USED FOR THE CONNECTING THE WIRE. 10KA SURGE PROTECTION SHALL MEET OR EXCEED ANSI/IEEE C62.41-1991 CATEGORY C3; MVOLT SURGE PROTECTION SHALL MEET OR EXCEED CATEGORY C1. SURGE PROTECTION SHALL BE SEPARATE FROM THE DRIVER. QUICK DISCONNECT DRIVER/SURGE MODULE POWER DOOR FOR QUICK MAINTENANCE. POWER FACTOR > .90; COLOR TEMPERATURE: 4000K-5000K; CRI > 65; > 70% LUMEN MAINTENANCE AT 50,000 HOURS OF OPERATION AT 40 DEGREES CELSIUS. FIXTURE SHALL BE US/UL LISTED. A LEVELING BUBBLE DEVICE SHALL BE MOUNTED INTERNALLY OR ON THE FIXTURE WHERE IT MAY BE SEEN DURING INSTALLATION WITHOUT CLOSING THE DOOR. FIXTURE SHALL BE TOOL-LESS ENTRY. FIXTURE SHALL OPERATE AT RATED NOMINAL VOLTAGE OF 120, 208, 240, OR 277 VAC. THE OPTICS ENCLOSURE OF THE FIXTURE SHALL BE RATED IP65 OR BETTER. MODULAR IP66 LIGHT-SQUARES WITH FIELD ROTATABLE OPTICS REQUIRED. AE HAS COMPLETED A FORMAL EVALUATION AND WILL ONLY CONSIDER PRE APPROVED BRANDS. AE STOCK NO. 22533</p> <p>APPROVED BRANDS: COOPER LIGHT (OVHBO2LEDUT3S4KU); LEOTEK (GCAD130EMVNW3GY530); LIGHTING SCI (LSR2CWR3MVOLT2BPCR)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$
019	<p>LED LUMINAIRE 100W EQUIVALENT IN ACCORDANCE WITH SPECIFICATION E-1785 AE STOCK NO. 22567</p> <p>APPROVED BRANDS: COOPER LIGHT (NVN-AA-01-D-U-SL2-AP-10K-K-4-U); COOPER LIGHT (OVHBO2LEDUT3S4KU); LEOTEK (GCAD130EMVNW3GY530); LIGHTING SCI (LSR2CWR3MVOLT2BPCR)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	3,765	EA	\$	\$

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020	<p>LED LUMINAIRE 250W EQUIVALENT IN ACCORDANCE WITH SPECIFICATION E-1785 AE STOCK NO. 23547</p> <p>APPROVED BRANDS: NOT KNOWN</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	100	EA	\$	\$
021	<p>LED LUMINAIRE 400W EQUIVALENT IN ACCORDANCE WITH SPECIFICATION E-1785 AE STOCK NO. 23548</p> <p>APPROVED BRANDS: NOT KNOWN</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	50	EA	\$	\$
022	<p>LUMINIARE, 100 WATT HIGH PRESSURE SODIUM, TYPE II DISTRIBUTION, MULTI-TAP, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4 INCH AND 2 INCH PIPE, WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING. AS PER SPECIFICATION E-1422 AE STOCK NO. 6192</p> <p>APPROVED BRANDS: AMERI LIGHTING (11510SCAMT1R2FG); COOPER POWER (OVH10SK22DU0469); GENERAL ELEC (M2RC10S1A2GMC2446)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	1,025	EA	\$	\$
023	<p>LUMINIARE, 100W HPS, TYPE II DISTRIBUTION, MULTI-TAP, PAINTED BLACK, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4" AND 2" PIPE, WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING, AS PER SPECIFICATION E-1422. AE STOCK NO. 19988</p> <p>APPROVED BRANDS: AMERI LIGHTING (1510SCAMT1R2FG-RFD29822-RAL-9004); COOPER LIGHT (OVH10SK23DU0469); GE LIGHTING, (M2RC10S1A2GMC2446)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$

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024	<p>LUMINIARE, 100W HPS, TYPE II DISTRIBUTION, MULTI-TAP, PAINTED BROWN, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4" AND 2" PIPE, WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING, AS PER SPECIFICATION E-1422 AE STOCK NO. 19991</p> <p>APPROVED BRANDS: AMERI LIGHTING (11510SCAMT1R2FG-RFD-27149-RAL-8014); COOPER POWER (OVH10SK23DU0469); GENERAL ELEC (M2RC10S1A2GMC2446)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$
025	<p>LUMINIARE, 100W HPS, TYPE II DISTRIBUTION, MULTI-TAP, PAINTED GREEN, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4" AND 2" PIPE. WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING, AS PER SPECIFICATION E-1422. AE STOCK NO. 19990</p> <p>APPROVED BRANDS: AMERI LIGHTING (11510SCAMT1R2FG-RFD-54130-RAL-6009); COOPER POWER (OVH10SK23DU0469-RAL-6009); GENERAL ELEC (M2RC10S1A2GMC2446-RAL-6009)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$
026	<p>LUMINIARE, 250 WATT HIGH PRESSURE SODIUM, TYPE III DISTRIBUTION WITH 120/208/240/277 VOLT REGULATED INTERNALLY MOUNTED BALLAST, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE 2 INCH SLIP FITTER. ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING AS PER SPECIFICATIONS E-1422 AE STOCK NO. 6193</p> <p>APPROVED BRANDS: AMERI LIGHTING (12525SCAMT1R3FG-AR10932); COOPER POWER (OVF25SCW3DU1090); GENERAL ELEC (MSCL25S0A22FMC3468)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	1,030	EA	\$	\$
027	<p>LUMINIARE, 250W HPS, TYPE III DISTRIBUTION, MULTI-TAP, PAINTED BLACK, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4" AND 2" PIPE, WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING, AS PER SPECIFICATION E-1422. AE STOCK NO. 21804</p> <p>APPROVED BRANDS: AMERI LIGHTING (12525SCAMT1R3FG-RFD-88215-RAL-9004); COOPER LIGHT (OVF25SCW3DU1090) GE LIGHTING (MSCL25S0A22FMC3468)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$

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028	<p>LUMINIARE, 250W HPS, TYPE III DISTRIBUTION, MULTI-TAP, PAINTED BROWN, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4" AND 2" PIPE, WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING, PER SPECIFICATION E-1422 AE STOCK NO. 21806</p> <p>APPROVED BRANDS: AMERI LIGHTING (12525SCAMT1R3FG-RFD-27151-RAL-8014); COOPER LIGHT (OVF25SCW3DU1090); GE LIGHTING (MSCL25S0A22FMC3468)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$
029	<p>LUMINIARE, 250W HPS, TYPE III DISTRIBUTION, MULTI-TAP, PAINTED GREEN, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4" AND 2" PIPE, WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING, AS PER SPECIFICATION E-1422 AE STOCK NO. 21803</p> <p>APPROVED BRANDS: AMERI LIGHTING (12525SCAMT1R3FG-RFD-27152-RAL-6009); COOPER LIGHT (OVF25SCW3DU1090-RAL-6009); GE LIGHTING (MSCL25S0A22FMC3468-RAL-6009)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	15	EA	\$	\$
030	<p>LUMINIARE, 400 WATT HIGH PRESSURE SODIUM, TYPE III DISTRIBUTION, WITH 120/208/240/277 VOLT REGULATED INTERNALLY MOUNTED BALLAST WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE 2 INCH SLIP FITTER. ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING. AS PER SPECIFICATION E-1422 AE STOCK NO. 6194</p> <p>APPROVED BRANDS: AMERI LIGHTING (12540SCAMT1R3FG-AR10933); COOPER LIGH , (OVF40SCW3DU1092) GE LIGHTING (MSCL40S0A22FMC3469)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	110	EA	\$	\$
031	<p>LUMINIARE, 400W HPS, TYPE III DISTRIBUTION, MULTI-TAP, PAINTED BLACK, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4 INCH AND 2 INCH PIPE, WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING, AS PER SPECIFICATION E-1422. AE STOCK NO. 21861</p> <p>APPROVED BRANDS: AMERI LIGHTING (12540SCAMT1R3FG-RFD-57607-RAL-9004)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$

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032	<p>LUMINIARE, 400W HPS, TYPE II DISTRIBUTION, MULTI-TAP, PAINTED BROWN, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4 INCH AND 2 INCH PIPE, WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING, AS PER SPECIFICATION E-1422. AE STOCK NO. 21863</p> <p>APPROVED BRANDS: AMERI LIGHTING (12540SCAMT1R3FG-RFD-88216-RAL-8014)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$
033	<p>LUMINIARE, 400W HPS, TYPE III DISTRIBUTION, MULTI-TAP, PAINTED GREEN, REGULATED INTERNALLY MOUNTED BALLAST FOR 55 VOLT LAMP, WITH P.E. CONTROL RECEPTACLE, WITH UNIVERSAL TYPE SLIP FITTER FOR 1-1/4 INCH AND 2 INCH PIPE, WITH GLASS REFRACTOR, ALL INTERNAL COMPONENTS SHALL BE MOUNTED TO THE HOUSING, AS PER SPECIFICATION E-1422. AE STOCK NO. 21862</p> <p>APPROVED BRANDS: AMERI LIGHTING (12540SCAMT1R3FG-RFD-88227-RAL-6009)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$
034	<p>FLOODLIGHT, 1000 WATT, 480 VOLT, METAL HALIDE, WITH 2 INCH KNUCKLE TYPE SLIPFITTER. UNIT SHALL BE MUNSELL GRAY IN COLOR WITH A NEMA 7 (7HX6V) LIGHT DISTRIBUTION. UNIT SHALL BE SUPPLIED WITH 10 FEET OF 3 CONDUCTOR #14 AWG SO CORD. ON QUALIFIED PRODUCTS LIST EL-38 AE STOCK NO. 6189</p> <p>APPROVED BRANDS: AMERI LIGHTING (77X1MCA48076TMNR1043); COOPER LIGHT (GPF91MW877U0009-GRAY); GE (PF1K01M5A27X6GRKLP-GRAY); HPS (MVK-1000MH265M53-GRY)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	5	EA	\$	\$
035	<p>FLOODLIGHT, PARABOLIC, MV/MTL HALIDE, 1500 WATT, MULTI-TAP, WITH STEEL CROSSARM MOUNTING BRACKET, PREWIRED WITH 10 FEET OF 3 CONDUCTOR #14 AWG SO CORD. UNIT SHALL BE MUNSELL GRAY IN COLOR WITH NEMA TYPE 7 (7HX6V) LIGHT DISTRIBUTION. ON QUALIFIED PRODUCTS LIST EL-138. AE STOCK NO. 6191</p> <p>APPROVED BRANDS: AMERI LIGHTING (SPF X5M CA MT7 66 GY 1043); COOPER LIGHT (KSL99MWN66-OA1010 W/ X-ARM MNTG BRKT); GE LIGHTING (PSFA51M0A26GP0014 W/ X-ARM MNTG BRKT)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	20	EA	\$	\$

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036	<p>FLOODLIGHT, PARABOLIC, MV/MTL HALIDE, 1500 WATT, 480 VOLT, WITH STEEL CROSSARM MOUNTING BRACKET, PREWIRED WITH 10 FEET OF 3 CONDUCTOR #14 AWG CORD. UNIT SHALL BE MUNSELL GRAY IN COLOR WITH NEMA TYPE 7 (7HX6V) LIGHT DISTRIBUTION. ON QUALIFIED PRODUCTS LIST EL138. AE STOCK NO. 6190</p> <p>APPROVED BRANDS: AMERI LIGHTING (U-SFAR3551); COOPER LIGHT (KSL-99MW8666-OA1010 W/ X-ARM MNTG BRKT); GE LIGHTING (PSFA51M5A26GP0014 W/ X-ARM MNTG BRKT)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	10	EA	\$	\$
037	<p>FLOODLIGHT, SQUARE, 400 WATT, METAL HALIDE, MULTI-TAP (120,208,240,277), PREWIRED 120 VOLT, PREWIRED WITH 6 FEET OF 3 CONDUCTOR #14 AWG SO CORD, WITH PHOTOCONTROL RECEPTACLE, WITH 2 INCH KNUCKLE TYPE SLIPFITTER. UNIT SHALL BE MUNSELL GRAY OR BROWN IN COLOR WITH NEMA TYPE 7 (7H X 6V) LIGHT DISTRIBUTION. FOR USE ON BASKETBALL COURTS. ON QUALIFIED PRODUCTS LIST EL-037. AE STOCK NO. 1709</p> <p>APPROVED BRANDS: AMERI LIGHTING (ACP40MSCMT176TM0643); COOPER POWER (CFB40PWW76U0193); GE LIGHTING (PF4S40E0A27X7GR201)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	22	EA	\$	\$
038	<p>NIGHT WATCHMAN LIGHT 100 WATT COBRAHEAD PACKAGE UNIT, 120 VOLT NORMAL POWER FACTOR REATOR BALLEST, FLAT TEMPERED GLASS FULL CUT OFF, EFFECTIVE PROJECTED AREA MAX 0.78, SUPPLIED WITH 5 FEET OF #14 SOLID BW THHN PREWIRED TO THE TERMINAL BLOCK, A 24 INCH ALUMINUM MAST ARM. COMPLETE PACKAGE TO INCLUDE FIXTURE, BRACKET, AND LAMP AND PHOTO CELL. AS PER QUALIFIED PRODUCTS LIST #EL-1007 AE STOCK NO. 18593</p> <p>APPROVED BRANDS: AMERI LIGHTING (U1150148-L); COOPER LIGHT (OVH10SR22DU1859)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	36	EA	\$	\$
039	<p>STARTER, UNIVERSAL REPLACEMENT KIT FOR HPS LUMNINAIRES, COMPLETE WITH HARDWARE FOR OPERATION FROM 35 TO 400 WATT FIXTURES AT ANY PRIMARY VOLTAGE. AS PER QUALIFIED PRODUCTS LIST EL1138 AE STOCK NO. 6748</p> <p>APPROVED BRANDS: AMERI LIGHTING (IGN2L14EC DUAL UNI J5); COOPER LIGHT (2L-STARKT); GE LIGHTING (35-967410-51)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	50	EA	\$	\$

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040	<p>CONTROL, PHOTOELECTRIC, 120/240/277 VOLTS,50/60 CYCLE, MAXIMUM LOAD 1,000 WATTS WITH LARGE HERMETICALLY SEALED CELL WITH ADJUSTABLE LIGHT CONTROL SHIELD OVER CELL, RELAY TYPE MECHANISM AND DATE CODING PROVISION. AS PER QUALIFIED PRODUCTS LIST EL785 AE STOCK NO. 6766</p> <p>APPROVED BRANDS: DARK 2 LIGHT (DX124-12A); HD ELECT/FP (7790BSSS); RIPLEY (6390IF)</p> <p>MANUFACTURER _____ P/N _____</p> <p>**TWO CALENDAR DAY DELIVERY AS PER PARAGRAPH 6.A OF SECTION 0400**</p>	230	EA	\$	\$
041	<p>CONTROLLER, ROAM COMMUNICATING DEVICE FOR STANDARD COBRA HEAD FIXTURE. WIRELESS ENABLED COMMUNICATION USING 2.4GHZ- 802.15.4 COMPATABLE, FCC PART 15 APPROVED, RANGE OF 1000FT LINE OF SIGHT. WIRELESS CONTROL AND DIAGNOSTICS FOR FIXTURES UP TO 1000W AND 120/208/240/277 VOLTAGES. ON QPL EL14756 CU IS CONROAMCOMCOBRA. AE STOCK NO. 22396</p> <p>APPROVED BRANDS: ACUTY/ROAM (REN127NM1)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	1,200	EA	\$	\$
042	<p>CONTROLLER, ROAM COMMUNICATING DEVICE FOR DECORATIVE FIXTURE. WIRELESS ENABLED COMMUNICATION USING 2.4GHZ- 802.15.4 COMPATABLE, FCC PART 15 APPROVED, RANGE OF 1000FT LINE OF SIGHT. WIRELESS CONTROL AND DIAGNOSTICS FOR FIXTURES UP TO 1000W AND 120/208/240/277 VOLTAGES. ON QPL EL14758 CU IS CONROAMCOMDEC. AE STOCK NO. 22397</p> <p>APPROVED BRANDS: ACUTY/ROAM (REN127CM1)</p> <p>MANUFACTURER _____ P/N _____</p> <p>BIDDERS FIRM DELIVERY _____ CALENDAR DAYS ARO</p>	600	EA	\$	\$
TOTAL					\$

DELIVERY TERMS: DELIVERY IS TO BE FOB DESTINATION, PREPAID AND ALLOWED
DELIVERY METHOD: _____

COMPANY NAME: _____

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

PRINTED NAME: _____

EMAIL ADDRESS: _____