June 24, 2015

This is your invitation to bid on the install of garage lighting to the Business Technology Center Building on the Main Campus of Bishop State Community College. Specifications are enclosed.

The bid opening will be held on Monday, July 20, 2015 at 2:30 p.m. in the Business Office Conference Room on the Main Campus located in the Administration Building at 351 North Broad Street, Mobile, Alabama. A mandatory pre-bid meeting will held on July 6, 2015, in the Business Office Conference Room as located above.

Certificate of Liability Insurance must be submitted with bids along with your Business License.

Bids must be sealed and identified on the envelope as “Sealed Bid, (Lighting, Main Campus), Open, Monday, July 20, 2015 at 2:30 p.m.” Bids must be submitted to:

Ms. Bonita Allen
Dean of Business/Finance
Bishop State Community College
Administration Building
351 North Broad Street
Mobile, AL 36603-5898

Please complete and sign enclosed Proposal Form as part of your bid package along with the Alabama Immigration Law Compliance, E-Verify Memorandum. Questions may be directed to Mr. Lorenzo Grayson, Director of Maintenance, at (251) 405-7171 and or (251) 405-7170, or to Mrs. Cristina Rodgers, Secretary to Business Dean, at (251) 405-7040.

Sincerely,

Bonita Allen, MSCE
Dean of Business/Finance

BA:cr

Enclosures
Invitation to Bid

I. INTRODUCTION

Bishop State Community College is requesting bids to install garage lighting on the Business Technology Center Building.

II. GENERAL REQUIREMENTS

All vendors must be able to demonstrate that the specifications, as outlined below, are met. Any variations from specifications must be thoroughly described. Inferior products or lesser quality merchandise will not be accepted.

Bishop State Community College reserves the right to reject any or all bids, or parts thereof.

Warranty
A one year warranty on the system must be provided.

Prices
Bidder must supply unit prices (where applicable) to include shipping and assembly.

Bid must include standard and optional prices as listed in the specifications.

No prices shall include State or Federal Excise Taxes; tax exemption certificates are furnished upon request.

Where all, or of the planned Work is bid on a unit price basis, both the unit prices and the extensions of the unit prices constitute a basis of determining the lowest responsible and responsive bidder. In cases of error in the extension of prices of bids, the unit price will govern. In case of discrepancy between the prices shown in the figures and in words, the words will govern. A bid may be rejected if any of the requested documents are not included in the sealed bid packet.

Insurance
Certificate of Insurance must be submitted with bids.

Delivery
Bid must include shipping to Bishop State Community College, 351 North Broad St. Mobile AL 36604
Bid Form
All information requested of the bidder must be filled in. The bid must be completed in ink.

Bids will be opened and read publicly at the time and place indicated in this Invitation to Bid. Bidders or their authorized representatives are invited to be present.

After the bids are opened and read publicly, the bid prices will be compared and the results of this comparison will be available to the public. Until the final award of the contract, however, the College shall have the right to reject any or all bids, and it shall have the right to waive technical errors and irregularities if, in its judgment, the bidder will not have obtained a competitive advantage and the best interests of the college will be promoted.

Award of Contract
The contract shall be awarded to the lowest responsible and responsive bidder unless the College finds that all the bids are unreasonable or that it is not in the best interest of the College to accept any of the bids. A responsible bidder is one who, among other qualities determined necessary for performance, is competent, experienced, and financially able to perform the contract. A responsible bidder is one who submits a bid that complies with the terms and conditions of the Invitation for Bid and the Bid Documents. Minor irregularities in the bid shall not defeat responsiveness.

The contract will be awarded on in whole, or part, based on unit prices.

Other
All bidders, to the best of their knowledge and belief, must be in compliance with all applicable Federal, state, county and municipal laws, regulations, resolutions. In particular, if applicable, all bidders must be licensed and permitted in accordance with the Code of Alabama 1975, as amended; provided, the bidder is not exempted from the below mentioned Code Sections elsewhere in the Code.

<table>
<thead>
<tr>
<th>Code of Alabama</th>
<th>General Description</th>
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<tbody>
<tr>
<td>Title 10, Chapter 8A</td>
<td>Out-of-State corporations doing business within Alabama</td>
</tr>
<tr>
<td>Title 34, Chapter 8</td>
<td>General contractor licensing for businesses which construct or superintend the construction of any building, highway, sewer, grading or any improvement or structure costing $50,000.00 or more</td>
</tr>
<tr>
<td>Title 39, Chapter 3</td>
<td>Use of domestic products and workmen and laborers who have actually resided in for two years next preceding such employment on public works contracts</td>
</tr>
<tr>
<td>Title 40, Chapter 12</td>
<td>Privilege licenses and store licenses</td>
</tr>
<tr>
<td>Title 40, Chapter 14</td>
<td>Permitting franchise tax and other taxation of corporations</td>
</tr>
</tbody>
</table>
III. CONTRACT PROVISIONS

Statement of Disclosure
A vendor disclosure form (attached) must be completed, signed and submitted to Bishop State Community College if the total bid is $5,000.00 or more.

Other Contract Provisions

IV. SPECIFICATIONS

Drawings (See Attachments)
L1 - 1st Floor Garage and Breezeway lighting RCP
L2 - 2nd Floor Garage Lighting RCP
L3 - Parking Garage roof deck

Specifications (See Attachments)
Section 26-5601 - Architectural Lighting Fixtures
Section 26-5602 - Architectural Lighting Fixture Schedule
Section 26-5603 - Architectural Lighting Cutsheets
W-9
Request for Taxpayer Identification Number and Certification

Name (as shown on your income tax return)

Business name, if different from above

Check appropriate box: □ Individual/sole proprietor □ Corporation □ Partnership
□ Limited liability company □ Other legal entity □ ... □ Exempt peace

Address (number, street, and apt. or suite no.)

City, state, and ZIP code

See specific instructions on page 2.

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, a nonresident alien, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see How to get a TIN on page 2.

Note: If this account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest and dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here □ Signature of U.S. person □ Date □

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien, to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that you are a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note: If a requester gives you a form other than Form W-9 to establish your TIN, you must use the requester's form if it is substantially similar to the Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:
• An individual who is a U.S. citizen or U.S. resident alien,
• A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
• An estate (other than a foreign estate), or
• A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:
• The U.S. owner of a disregarded entity and not the entity.
State of Alabama
Disclosure Statement
(Required by Act 2001-955)

<table>
<thead>
<tr>
<th>ENTITY COMPLETING FORM</th>
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<th>CITY, STATE, ZIP</th>
<th>TELEPHONE NUMBER</th>
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<tr>
<th>STATE AGENCY/DEPARTMENT THAT WILL RECEIVE GOODS, SERVICES, OR IS RESPONSIBLE FOR GRANT AWARD</th>
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<th>ADDRESS</th>
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This form is provided with:

- [ ] Contract
- [ ] Proposal
- [ ] Request for Proposal
- [ ] Invitation to Bid
- [ ] Grant Proposal

Have you or any of your partners, divisions, or any related business units previously performed work or provided goods to any State Agency/Department in the current or last fiscal year?

- [ ] Yes
- [x] No

If yes, identify below the State Agency/Department that received the goods or services, the type(s) of goods or services previously provided, and the amount received for the provision of such goods or services.

<table>
<thead>
<tr>
<th>STATE AGENCY/DEPARTMENT</th>
<th>TYPE OF GOODS/SERVICES</th>
<th>AMOUNT RECEIVED</th>
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<tbody>
<tr>
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Have you or any of your partners, divisions, or any related business units previously applied and received any grants from any State Agency/Department in the current or last fiscal year?

- [ ] Yes
- [x] No

If yes, identify the State Agency/Department that awarded the grant, the date such grant was awarded, and the amount of the grant.

<table>
<thead>
<tr>
<th>STATE AGENCY/DEPARTMENT</th>
<th>DATE GRANT AWARDED</th>
<th>AMOUNT OF GRANT</th>
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</table>

1. List below the name(s) and address(es) of all public officials/public employees with whom you, members of your immediate family, or any of your employees have a family relationship and who may directly or indirectly benefit financially from the proposed transaction. Identify the State Department/Agency for which the public officials/public employees work. (Attach additional sheets if necessary)

<table>
<thead>
<tr>
<th>NAME OF PUBLIC OFFICIAL/EMPLOYEE</th>
<th>ADDRESS</th>
<th>STATE DEPARTMENT/AGENCY</th>
</tr>
</thead>
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</table>

Bid # 2015-08
Mobile, AL
Opening Date: July 20, 2015 2:30 p.m. CST

Bishop State Community College,
2. List below the name(s) and address(es) of all family members of public officials/public employees with whom you, members of your immediate family, or any of your employees have a family relationship and who may directly personally benefit financially from the proposed transaction. Identify the public officials/public employees and State Department/Agency for which the public officials/public employees work. (Attach additional sheets if necessary.)

<table>
<thead>
<tr>
<th>NAME OF FAMILY MEMBER</th>
<th>ADDRESS</th>
<th>NAME OF PUBLIC OFFICIAL/PUBLIC EMPLOYEE</th>
<th>STATE DEPARTMENT/AGENCY WHERE EMPLOYED</th>
</tr>
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</table>

If you identified individuals in items one and/or two above, describe in detail below the direct financial benefit to be gained by the public officials, public employees, and/or their family members as the result of the contract, proposal, request for proposal, invitation to bid, or grant proposal. (Attach additional sheets if necessary.)

If you identified individuals in items one and/or two above, describe in detail below the direct financial benefit to be gained by the public officials, public employees, and/or their family members as the result of the contract, proposal, request for proposal, invitation to bid, or grant proposal. (Attach additional sheets if necessary.)

If you identified individuals in items one and/or two above, describe in detail below the direct financial benefit to be gained by the public officials, public employees, and/or their family members as the result of the contract, proposal, request for proposal, invitation to bid, or grant proposal. (Attach additional sheets if necessary.)

Describe in detail below any indirect financial benefits to be gained by any public official, public employee, and/or family members of the public official or public employee as the result of the contract, proposal, request for proposal, invitation to bid, or grant proposal. (Attach additional sheets if necessary.)

List below the name(s) and address(es) of all paid consultants and/or lobbyists utilized to obtain the contract, proposal, request for proposal, invitation to bid, or grant proposal:

<table>
<thead>
<tr>
<th>NAME OF PAID CONSULTANT/LOBBYIST</th>
<th>ADDRESS</th>
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By signing below, I certify under oath and penalty of perjury that all statements on or attached to this form are true and correct to the best of my knowledge. I further understand that a civil penalty of ten percent (10%) of the amount of the transaction, not to exceed $10,000.00, is applied for knowingly providing incorrect or misleading information.

Signature __________________________ Date ________________

Notary's Signature __________________ Date ________________ Date Notary Expires ________________

Act 2001-955 requires the disclosure statement to be completed and filed with all proposals, bids, contracts, or grant proposals to the State of Alabama in excess of $5,000.
SECTION 26 5601

ARCHITECTURAL LIGHTING FIXTURES

PART 1 - GENERAL

1.1 SUMMARY:

A. General: Provide Architectural Lighting Fixtures in accordance with the requirements of the Contract Documents.

1.2 SYSTEM DESCRIPTION:

A. Provide fixtures as shown on the drawings and as indicated in Specification Section 26 5602, Architectural Lighting Fixture Schedule, complete with all specified lamps, completely wired, controlled and securely attached to supports.

B. Fixture Types: Type of fixture shall be as indicated on the drawings and as specified in Specification Section 26 5602, Architectural Lighting Fixture Schedule.

C. Lamping: Lamping for each type of fixture shall be as indicated on the drawings and as specified in Specification Section 26 5602, Architectural Lighting Fixture Schedule.

D. Coordination: Coordinate installation, connection, and securing of all lighting fixtures with adjacent construction and with all other applicable trades to provide a total system that is complete and finished in appearance.

E. Completeness: The specifications and drawings pertaining to this scope of work, are intended to convey the salient features, function and character of the fixtures only, and do not undertake to illustrate or set forth every item or detail necessary for the complete installation of the work.

F. Minor Details Minor details, not usually indicated on the drawings nor specified, but that are necessary for the proper execution, completion and installation of the fixtures, shall be included, as if they were herein specified or indicated on the drawings.

G. Omissions and Clarifications: Where any fixture type or lamping designated has been omitted or cannot be determined by the Contractor, request a clarification from the Architect and provide the fixture type as directed. Where an inconsistency in the specifications and/or the drawings is determined by the Contractor, request a clarification from the Architect and provide as directed. There will be no increase in cost permitted to correct any inconsistency within the documents so long as the overall intent of the work scope is not changed.

H. Owner Furnished Contractor Installed Items (O.F.I.C.I.): Fixtures specifically designated as O.F.I.C.I. in the specifications, or on the drawings, shall be provided by the Owner to the Contractor, and installed by the Contractor, to the same level of completeness and coordination as afforded all other fixtures in this specification.
I. Owner Furnished Items (O.F.I.), Installed by the Owner: Fixtures specifically designated as O.F.I. in the specifications, or on the drawings, shall be provided by the Owner, and installed by the Owner. Information, regarding O.F.I. fixtures, included in these specifications is for information and coordination purposes only.

J. Lighting Fixtures as specified by the Interior Designer, ID(XXX): Fixtures specifically designated in the specifications, or on the drawings, as ID(XXX) are as specified by the Architect or Interior Designer in other Sections of the specifications; and are included for coordination purposes only. The "(XXX)" portion of the fixture type designator represents a wattage allowance for the fixture type for engineering purposes only. The actual wattage of the specific fixtures is to be verified per the specification Section(s) in which the fixture is specified.

1.3 SUBMITTALS:

A. Procedures: Manufacturer shall provide 2 sets of full system submittals, one copy of which will be returned with comments and action. Submittals shall include two of each of the following:

1. Shop Drawings: Where indicated for specific Fitting types in Specification Section 26 5602, Architectural Lighting Fixture Schedule, Submit full-size shop drawings cross-referenced to contract documents, indicating name of project, Fitting type, construction of Fitting, dimensions, material thickness, finishes, joints, lamping, anchorages, and relationship to adjacent materials and complete details and/or data of Fittings, including Manufacturer's name, catalog number for lamp holders, transformers, ballasts, metal gauges, independent test reports, photometric data, type of wiring, color and texture of finishes.

   a. No variation from the general arrangement and details indicated on the contract document drawings shall be made on the shop drawings unless required to suit the actual conditions on the project, and then only with the written acceptance of the Architect. All variations must be clearly indicated as such on the shop drawings submitted for approval.

2. Cut Sheets: For all Fitting types, and where shop drawings are not specifically indicated for submission, submit standard drawings, or cut sheets, including product data and photometric data.

3. Lamping: For all Fitting types submit cut sheets for lamping including: manufacturer, manufacturer’s catalog number; and quantity of lamps per Fitting.

4. Samples: Where indicated for specific Fitting types in Specification Section 26 5602, Architectural Lighting Fixture Schedule, a sample will be required for the purpose of ascertaining its performance, quality of parts and details, maintenance features, method of installation and safety features. Samples must be wired for simple plug-in operation for evaluation purposes. Samples to be shipped prepaid by the contractor to the Architect, or as otherwise advised. No payment shall be required for samples, and will be submitted at no additional cost to the Owner.
Samples submitted for evaluation purposes may not be returned, at the discretion of the architect, nor are they to be included in the quantities listed for the project.

a. For each sample Fitting submitted, submit photometric data from an independent testing laboratory, of the submitted sample.

b. All sample Fittings must be tested and labeled by Underwriters’ Laboratories Inc, and bear such label affixed to each fitting in such a position as to conceal it from normal view.

c. Fitting samples and photometric data shall be submitted for final review within thirty (30) days after receipt of reviewed shop drawings. If after a period of thirty (30) days from submittal of sample, the Fitting cannot be made acceptable, then a Fitting, (shop drawing and sample), by an alternate specified Manufacturer, as selected by the architect, shall be submitted for review, and provided to the project, at no additional cost to the Owner.

d. Construction time permitting, and then only with the written acceptance of the Architect, sample Fittings may be submitted for review of workmanship and material finishes only, prior to the submittal of the complete working sample. The approval of a sample for workmanship and material finishes, does not negate the requirement for submission of the complete working sample including photometric data and UL label.

5. Maintenance Manual: Prior to the completion of the project submit, for incorporation into the overall project maintenance manual, recommended maintenance requirements from the manufacturer’s of each Fitting type, including:

a. A quantity of two (2) of any special tools required.

b. Types of cleaners to be used.

c. Replacement parts identification lists and local contacts for all Fittings, including all lamping.

d. Recommended maintenance schedule and procedures.

e. Final as-built shop drawings for all Fittings that required shop drawing submittals.

B. Mock-ups: If required by Article, Mock-ups, make submittals required for mock-up construction and obtain necessary approvals prior to commencement of mock-up construction. Submit Mock-up Shop Drawings of each mock-up, showing: materials, dimensions, details, hardware, Fitting, lamping, and proposed mock-up location.

C. Contractor Statement: With all submittals, provide a statement declaring that the contractor has coordinated all lighting Fittings and Fitting drawings with the drawings and details of the Architectural, Structural, Electrical, Mechanical, and other related trades to assure an accurate and efficient installation.

1.4 QUALITY ASSURANCE:

A. Contractor’s Quality Assurance Responsibilities: Contractor is solely responsible for
quality control of the Work.

B. Quality: All fixtures, lamping, accessories, and materials, shall be new, of good quality, and free from defects which in any manner may impair their character, appearance, strength, durability and function.

C. Replacement of Damaged Fixtures: All blemished, damaged, or unsatisfactory fixtures shall not be installed. All blemished, damaged, or unsatisfactory fixtures shall be replaced in a satisfactory manner as directed by the Architect.

D. Listing: All fixtures shall be manufactured in strict accordance with the appropriate and current requirements of the National Electric Code as verified by Underwriters’ Laboratories Inc., or other testing agency as acceptable to local code authorities. Such a listing shall be provided for each fixture type, and the appropriate applicable regulatory agency label or labels shall be affixed to each fixture in such a position as to conceal it from normal view. Listing and labels shall be provided for wet locations as required, and as specified herein.

E. Substitutions: The lighting designated for this project is based on fixture types and lamping as specified. Identification of specified fixtures and lamping by means of manufacturers’ names and catalog numbers is to establish basic features, aesthetics and performance standards. Any substitutions must meet or exceed these standards. If substitution of fixtures, and/or lamping, other than those specified is desired, provide the following information noted below, for both the specified fixture and lamping, and the proposed equal substitute fixture and lamping, for evaluation by the Architect.

1. Fixtures submitted for substitution are required to have been in commercial use for at least one (1) year unless otherwise noted.
2. Submit all performance data noted below in paragraph, Equality.
3. At the discretion and request of the Architect, and at no additional cost to the Owner, provide lamped, working samples of both the specified fixture and the proposed substitute fixture for evaluation by the Architect. Samples must be wired for simple plug-in operation for evaluation purposes. Samples to be shipped prepaid by the contractor to the Architect, or as otherwise advised. Samples submitted for evaluation purposes will not be returned, nor are they to be included in the quantities listed for the project.

F. Approved Alternate Manufacturers: The lighting designated for this project is based on fixture types, and lamping, as specified. Identification of specified fixtures by means of manufacturers’ names and catalog numbers is to establish basic features, aesthetics and performance standards.

1. Where Approved Alternate Manufacturers are listed for a particular fixture type, an alternate fixture from that manufacturer may be submitted as an alternate fixture to the one specified. The alternate fixture must still meet all of the performance requirements noted below in paragraph, Equality, and must be submitted for evaluation by the Lighting Designer.
2. Where an Approved Alternate Manufacturer and specific alternate fixture catalog...
numbers are listed for a particular fixture type, the specified alternate fixture from that manufacturer may be submitted as an equal fixture to the one specified. The fixture must still be submitted for review by the Architect in accordance with Article, Submittals.

G. Qualifications: Within thirty (30) days of award of bid, Contractor must furnish all required data and samples, noted in paragraph, Substitutions, for all alternative fixtures, and/or lamping, including substitution requests and alternate manufacturers. If fixture fails to comply with the specification requirements at that time, Contractor will furnish specified fixture at no additional cost to the Owner, and with no delay to the project.

H. Equality: Equality shall be determined by comparisons of actual fixtures, and lamping, and of the following fixture and lamping characteristics. The Lighting Designer shall be the final authority with respect to equality.

1. Performance:
   a. Photometric data.
   b. Distribution.
   c. Utilization.
   d. Efficacy.
   e. Efficiency.
   f. Average brightness/maximum brightness.
   g. Spacing to mounting height ratio.
   h. Visual comfort probability.
   i. Ballasts.
   j. Drivers.
   k. Transformers.
   l. Heat dissipation.
   m. IES LM-79-08 approved method.
   n. IES LM-80-08 approved method.

2. Construction:
   a. Engineering.
   b. Workmanship.
   c. Rigidity.
   d. Types of materials.
   e. Thickness and gages of fixture materials.
   f. Light tightness, no light leaks will be accepted.
   g. Permanence and quality of materials and finishes.
   h. Physical Dimensions, both visible, and hidden from normal viewing.
   i. Required clearance dimensions.

3. Installation Ease:
   a. Captive parts and captive hardware.
   c. Through-wiring ease.
   d. Securing and attachment to adjacent construction.
4. Maintenance:
   a. Relamping ease
   b. Replacement of drivers, transformers, ballasts, lamp sockets, and other components or accessories.

5. Appearance:
   a. Light Tightness
   b. Aesthetic appearance.

6. Lamping:
   a. Center Beam Candle Power (CBCP)
   b. Color Rendering Index (CRI)
   c. Color Temperature (°K)
   d. Light Output, Mean and Initial Lumens
   e. Lamp Life, Rated Average Life (Hours)
   f. Lamp Optics
   g. Physical Dimensions
   h. Physical Materials, including coatings and internal gas composition
   i. Type of Base
   j. Filament Design
   k. Voltage

I. Regulatory Requirements: Comply with applicable requirements of the laws, codes, ordinances and regulations of Federal, State, and Municipal authorities having jurisdiction. Obtain necessary approvals from all such authorities.

1.5 DELIVERY, STORAGE AND HANDLING:

A. Deliver lighting fixtures and lamping, individually wrapped in factory-fabricated containers unless otherwise noted.

B. Handle lighting fixtures and lamping, carefully to prevent breakage, denting and scoring the fixture finish. Do not install damaged lighting fixtures; replace and return damaged units to equipment Manufacturer.

C. Store lighting fixtures, and lamping, in clean, dry space. Store in original cartons and protect from dirt, physical damage, weather, and construction traffic.

D. All fixtures, lamping, accessories, and materials are to be effectively protected from damage or injury from the time of fabrication to the time of delivery and until final acceptance of the work.

1.6 WARRANTY:

A. Special Warranty: Submit for Owner’s documentation. Furnish written warranty in form stipulated by the Architect, signed by the Contractor and Installer, agreeing to repair or replace Work which has failed as a result of defects in materials or workmanship. Upon notification of such defects, within the warranty period, make necessary repairs or
replacement at the convenience of the Owner. Warranty includes repair or replacing Work of other trades made necessary by the repair or replacement of the warranty items.

1. The Contractor shall warrant each fixture, its finishes, and all of its component parts, to be free from defects for a period equal to the greater of: one year, or that period offered by the fixture manufacturer for each specific fixture, from the date of acceptance if operated within the rated voltage range. Replacement of faulty materials, and the cost of labor required to make the replacement shall be the responsibility of the Contractor.

2. Ballasts shall be warranted for a minimum of five years, or that period offered by the ballast manufacturer, which ever is greater.

3. Transformers shall be warranted for a minimum of three years, or that period offered by the transformer manufacturer, which ever is greater.

4. Fiber for Fiber Optic systems shall be warranted for a minimum of two years, or that period offered by the fiber manufacturer, which ever is greater.

1.7 MOCK-UPS:

A. When Required: Where indicated for specific fixture types in the, Fixture Type Schedule, and as indicated on the drawings, provide a mock-up as specifically indicated herein. Utilize the same materials and installation methods in the mock-up as intended for the final Work. Schedule the installation so that the mock-up may be examined, and any necessary adjustments made, prior to commencing fabrication of the Work. Replace unsatisfactory items as directed. When accepted, mock-up shall serve as the standard for materials, workmanship, and appearance for such Work throughout the project. Where practical, with prior approval of the Architect, mock-ups may be constructed on site, and when approved be incorporated into the project.

1. No Mock-up Required.

B. Performance Requirements: Mock-ups shall be constructed for Lighting Designer review of: compliance with the contract documents, approval of color, texture, finish quality, detail and illumination; and shall be used as a standard for the final installation.

C. Review and Approval: Upon completion of mock-up construction, notify the Lighting Designer and make arrangements for review. Modify the mock-up or construct new components if requested by the Lighting Designer, until final approval is obtained.

1. Lighting Designer Duties: Review mock-up, modifications. Give approval with reasonable promptness.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. The manufacturer of each fixture type, and lamping, shall be as indicated on the drawings and as specified in Specification Section 26 5602, Architectural Lighting Fixture
Schedule. Refer to the requirements of paragraph, Approved Alternate Manufacturers, for additional information.

2.2 MATERIALS AND FABRICATION:

A. Fixture fabrication and workmanship shall conform to the highest commercial standard as specified and indicated on the drawings.

B. Dissimilar metals used in fabrication must be separated to prevent galvanic action.

C. Ferrous mounting hardware and accessories shall be finished using either a galvanic or phosphate primer backed paint process to prevent corrosion and discoloration of plaster surfaces.

D. Hardware: For steel and aluminum fixtures, all screws, bolts, nuts and other fastening and latching hardware shall be: stainless steel; cadmium; or equivalent. For stainless steel fixtures all hardware shall be stainless steel. For bronze fixtures, all hardware shall be stainless steel or bronze.

E. Light Leaks: Fixtures shall be free of light leaks. Light leaks between trims of recessed fixtures and the surfaces they are mounted upon shall not be acceptable.

F. Heat Dissipation: Fixtures shall be designed to provide sufficient heat dissipation and ventilation of lamps and ballasts including vent holes where required.

G. Lampholders (and Sockets): Lampholders shall hold lamps securely against normal vibrations and maintenance handling. All lampholders in lighting fixtures shall be suitable for the indicated lamps, and shall be set so that lamps are positioned in optically correct relation to all lighting fixture components. If adjustable socket positions are provided, socket should be preset in factory for lamp specified. If different socket positions are specified for the same fixture, sockets shall be preset for each type, and their cartons marked accordingly.

H. Wiring channels and lampholder mountings shall be rigid and accurately made.

I. Castings: For standard and custom fixtures made from castings, all castings shall be exact replicas of the approved casting patterns, and shall be free of sand pits, burrs, blemishes, scales and rust, and shall be smoothly finished. Tolerance shall be provided for any shrinkage of the metal castings, in order that the finished castings will accurately fit in their designated locations.

J. Reflector Cones:

1. Provide 45 degree lamp and lamp image cut-off unless otherwise specified.
2. Plastic materials shall not be used for reflector cones, aperture plates, or other exposed components of the reflector assembly.
3. Fixtures in which reflector cones are riveted or welded to housing or where removal of cone requires pressure to be applied to finished surface of reflector
shall not be acceptable.

4. Cone Flange: Cone flange shall be formed as an integral part of the cone and shall have identical color and finish as the cone, except as shown. The major flange surface shall be perpendicular to the cone axis. The width of the flange shall adequately cover the ceiling opening without light leaks. No fixture parts (housing, mounting frame, etc.) shall be visible between the ceiling surface and the edge of the cone flange.

5. Reflector cones shall be manufactured of uniform gauge, not less than 0.032" thick, high purity aluminum Alcoa 3002 alloy free of spin marks or other manufacturing defects.

6. The reflector inner surface finish shall be highly specular as produced under the Alzak process. The reflector inner surface shall be free of water spotting and shall maintain a reflectivity ratio of not less than 83% on clear specular finish.

7. Fixtures with Alzak reflector cones, unless otherwise specified, must be furnished by the same Manufacturer.

K. In adjustable fixtures, positive locking and aiming devices for both pan and tilt of lamp shall be provided.

L. Fixtures with an adjustable lamp and using a lamp with an asymmetrical light pattern shall have an aiming stop which can be permanently set so that the lamp shall remain correctly positioned after service or relamping.

M. Lamping: Lamping for each type of fixture shall be as indicated on the drawings and as specified below in the Fixture Type Schedule, and Article, Appendix, Fixture Type Data Sheets.

1. Any and all lamps banned under the United States Energy Policy Act of 1992 (EPACT), shall not be permitted for use on this project.

N. Voltage: Voltages for each fixture type shall be as indicated on the electrical plans and schedules.

O. Plenums: Lighting fixtures recessed in a hung ceiling where the space above the hung ceiling is used as a plenum chamber for either supply or return air for the air conditioning system shall be designed, manufactured, and wired to conform with local code requirements.

P. LED Luminaires

1. LED products shall document compliance with relevant standards, including:

   a. IES LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid State Lighting Products. The Manufacturer shall provide optical performance and photometric data in IES file format in accordance with IES LM-79-08. Photometric data shall be based on test results from an independent NIST traceable testing lab.
b. IES LM-80-08 Approved Method: Measuring Lumen Maintenance of LED Light Sources.

c. ANSI ANSLG C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products (For white LEDs) if applicable.

2. LEDs shall have a minimum of L70 at 25°C of 50,000 hours.

3. LEDs shall be manufactured from an established market leader as recognized by industry sources (such as SSL, LD&A) including but not limited to Nichia, LumiLEOs, CREE.

4. The Manufacturer shall utilize an advanced production LED-binning process to deliver a common and repeatable color point to maintain color consistency from fixture to fixture and project to project over time, while ensuring a reliable supply of LEDs from the supplier.

5. The Manufacturer shall provide optical performance and photometric data in IES file format in accordance with IES LM-79-08. Photometric data shall be based on test results from an independent NIST traceable testing lab.

6. Fixture/pixel shall have a minimum luminance of 87 lumens/foot.

Q. Ballasts:

1. All ballasts shall exceed ANSI C82.11 limits for Total Harmonic Distortion (THD). No ballast shall have a THD exceeding 10%.

2. All ballasts shall meet FCC Part 18 (RFI & EMI) non-consumer standards for electrical equipment (Class A). Noisy or defective ballasts shall be replaced at no cost to the owner.

3. All ballasts shall meet or exceed ANSI/IEEE 62.41 Category A standards for Transient Voltage Protection. They shall also be thermally protected with overload and short circuit protection with a Class P rating.

4. All ballast shall meet UL 935 standards and be UL Listed.

5. No ballast shall contain Polychlorinated Byphenols (PCB’s) in accordance with US law.


7. All ballasts shall carry a five year warranty from the date of manufacturer.

8. Wherever possible, electronic ballasts shall be used.

9. Lamp crest factor shall not exceed 1.7 for any ballast.

10. All ballasts shall contain an End-Of-Life (EOL) detection and shut down circuit in accordance with ANSI/IEC proposed standards.

11. Ballasts shall be suitable to operate in:
   a. In un-air-conditioned spaces: 10 to 65 degrees C. ambient.
   b. Outdoor applications: -18 to -29 degrees C. ambient.

12. Fluorescent Ballasts:
   a. Ballasts shall be instant start or programmed rapid start ballasts. No preheat or trigger start ballasts shall be acceptable.
   b. Ballasts shall operate between 108-132V (120V) and 249-305V (277V), whichever is applicable according to electrical engineer’s power distribution and electrical drawings.
c. Ballast shall be able to withstand a voltage dip of up to 20% without affecting lamp output.

d. No ballast shall have a ballast factor of less than .94.

e. All ballasts shall have a power factor greater than 90 percent (i.e. High Power Factor).

13. Dimming Ballasts:

a. For fixtures that require dimming ballasts, ballasts shall have a full continuous range of dimming from 100% to 1%.

b. Ballasts must be able to start lamp at any level without having to start at the high level first.

c. Ballast input wattage must be able to be reduced to less than 20% of nominal.

d. Ballast must be controlled via a forward phase cut-signal on the powerline.

e. All dimming ballasts shall be manufactured by the same company in order to assure consistent dimming across all lamp and fixture types.

14. HID Ballasts: For Metal Halide, High Pressure Sodium, Low Pressure Sodium and Mercury that cannot be controlled by an electronic ballast:

c. Ballasts shall be magnetic core and coil constant wattage autotransformer.

d. 90% of operating voltage shall be obtained in seven minutes.

e. Ballast shall be able to withstand a voltage dip of up to 20% without affecting lamp output.

f. Ballasts shall have a ballast factor of one.

g. Ballast shall be rated for source and wattage intended lamp (e.g. a high pressure sodium ballast cannot be used with a metal halide lamp, etc.).

h. All HID ballasts shall have a dry film capacitor.

i. Ballasts shall have an “F” UL 1029 Bench Top Rise Temperature Code.

j. Ballasts shall operate between 108-132V (120V) and 249-305V (277V), whichever is applicable according to electrical engineer’s power distribution and electrical drawings.

15. Acceptable Ballast Manufacturers

a. Fluorescent Ballasts (Electronic):

i. Lutron

ii. Advance

b. Dimming Ballasts (Electronic):

i. Lutron

b. Metal Halide (Electronic):

i. Aromat (NAIS)

ii. Innova

iii. Altman

d. HID that cannot be controlled by an electronic ballast including: Metal Halide; High Pressure Sodium; Low Pressure Sodium; and Mercury:

i. Advance

ii. Magnetek
R. Transformers:

1. All transformers shall be electronic unless otherwise noted.
2. Acceptable Manufacturers:
   a. Q-Tran Inc.
   b. Vossloh-Schwabe Inc.
   c. Advance

3. Remote Transformers (RT): All remote transformers shall be UL listed as a Low Voltage Lighting Power Supply Centers (PSC), and shall comply with N.E.C. Article 411. Where noted on the drawings, specifications, or cutsheets, provide remote transformers as indicated herein.
   d. Acceptable Manufacturers:
      i. Q-Tran Inc.
      ii. Semper Fi Power Supply Inc.
   e. For all remote transformers: Provide Q-Tran Inc. Series, QT or QX Model, or equal, Remote Transformers/Power Centers, as recommended by Q-Tran, based on load and voltage drop considerations, unless otherwise indicated on the drawings.
      i. All PSC shall have a minimum of 1-5 secondary circuit breakers ranging from 5A, 10A, 12.5A, 15A, 20A, to 25Amps.
      ii. All remote transformers shall be magnetic toroidal transformers. Toroidal transformers shall have a thermal auto-reset breaker wound into the toroidal transformer.
      iii. All remote transformers shall be Multi-Volt and have a minimum of 5 primary taps to provide either 11, 12, 13, 14, 15V (or 22, 24, 26, 28, 30V) at full load.
      iv. Loads shall be able to be connected to one (1) of the primary taps up to the full watt rating of the PSC.
      v. Efficiency: Shall be 95% efficient minimum.
      vi. Remote transformers shall have secondary circuit protection included into the Power Supply Center, maximum of 25Amps per N.E.C. article 411.
      vii. Remote transformers shall have primary circuit protection.
      viii. Remote transformers shall have Chokes ("Debuzing Coil").
      ix. Remote transformers shall have terminal blocks for both primary and secondary terminations.
      x. Remote transformers shall have a separate wiring compartment from the transformer compartment.
      xi. Remote transformers shall be UL Listed: Inherently Protected type IC for recess mounted into a 2X4 Stud wall with a zero clearance rating to combustible materials.
      xii. Remote transformer enclosures shall be painted with white powder coat paint, unless noted otherwise.
      xiii. Manufacturer shall provide Voltage drop calculator to determine distance and wire gauge from the transformer to the load.
      xiv. Manufacturer shall offer remote transformer in 50/60HZ Option (230V standard). Verify primary voltage with Electrical
Drawings.

S. Cold Cathode:

1. Interior 200Ma System (type CA):
   a. System: Cold Cathode System to be high lumen 200ma mounted as shown on architectural detail drawings, to form a continuous line of light in accordance with plans and specifications. System to include cathode lamps, ballasts, secondary cable, lamp holders and mounting hardware for cathode lamps.
   b. Lamps: Cold Cathode Lamps to be right angle electrode, 25mm diameter phosphor coated leaded glass with heavy duty coated 250mA electrodes to be fabricated to shapes and sizes as shown on approved shop drawings. Color of cathode lamps to be 3000K Triphosphor and shall produce 709 lumens per liner foot when operating at 200ma and shall not depreciate more than 20% after 10,000 hours of normal operation. Lamp life shall be a minimum of 40,000 hours. Manufacturer to furnish independent test lab report to support lumen data for all applicable white color temperatures. All cathode lamps to be supported by manufacturer’s approved method. Lamp samples to be submitted to Lighting Designer for visual color approval prior to manufacturing. Completed lamps to be aged for 48 hours for quality control purposes. Lamps showing darkening staining, discoloration spiraling, or sputtering will be rejected and replaced at no cost to the Owner. Field verified dimensions shall be provided by installing contractor to cold cathode manufacturer prior to lamp manufacturing.
   c. Lampholders: Lampholders shall be circuit-interrupt UL listed, type BL (surface mounted) or type BL-R (recess mounted) as specified, white electrical porcelain in 20-gauge white powder coated enclosures. Phosphor bronze clips within the lampholders shall serve to electronically connect and retain the lamp. Lampholders shall be provided with circuit interrupt feature, which shuts off ballast when lamps are removed.
   d. Ballasts: Ballasts shall be UL listed class P, thermally protected, sound-rated B, circuit-interrupt type, and shall be the models designated in the shop drawings. to be NPF dimming, 990V/200ma secondary, 120V-3.7Amps-450VA-60Hz. Ballast to be mounted in code-approved housing. Ballasts, secondary feeds, lampholders, and lamps must be installed in strict accordance with shop drawings, manufacturer’s requirements. Installing Contractor shall ensure that all lamps are making secure electrical contact when inserted in lampholders. Ballasts to be installed as close to lamp as possible in order to keep secondary feeds as short as possible (65 feet maximum), and shall be installed in an accessible location: within the cove; an accessible electrical or maintenance closet; above a lay-in ceiling; or above an access panel. All wiring compartments must be accessible. Ballast locations shall not exceed 100 degrees F. To avoid any electrical noise interfering with computer, public address, or telecommunications systems, all cold
cathode ballast shall be supplied from distribution transformers dedicated to lighting only. If distribution or isolation transformers are not available, cold cathode ballasts must be fed from a dedicated circuit with separate neutral wiring. All cold cathode ballasts and associated conduits and wiring shall maintain a 24" separation from any computer, public address, or telecommunications wiring and equipment. If ballast enclosures are mounted to a metallic surface, installing contractor to provide an 1/8" neoprene pad between the ballast enclosure and the mounting surface to avoid and potential harmonics.

e. Submittal Drawings: Drawings shall be submitted by cold cathode manufacturer for approval. These drawings shall be CAD generated and include scaled plans and details showing the location of ballasts, secondary feeds, lampholders and lamps, and reflect all requirements set forth by ULIFAY Field Installed Cold Cathode Lighting System.

f. Wiring and Conduit: Cold cathode manufacturer shall provide 1000V ballast wire to be installed in strict accordance with the instructions on the shop drawings. Installing contractor shall provide conduit, conduit fittings and ground wire.

g. Installation: Ballasts, secondary feeds, lampholders and lamps must be installed by a qualified electrical contractor in strict accordance with IFAY Field Installed Cold Cathode Lighting System, and the NEC, and any applicable local codes, as shown on approved ACL shop drawings.

h. Dimming: If dimming is specified, the Contractor must verify with the dimmer manufacturer that dimming system is compatible with specified ballasts.

2. Manufacturer: These specifications are based on the cold cathode systems of the manufacturer noted below. Alternate Manufacturers will be considered. The alternate system must meet all of the performance requirements noted in paragraph Equality, and must be submitted for evaluation by the Lighting Designer.

a. Approved Manufacturers:
   i. CLS: Cathode Lighting Systems Inc.
      8020 Queenair Drive
      Gaithersburg, Maryland, 20879
      Tel: 301.921.4120
      Fax: 301.963.3050

b. Approved Alternate Manufacturers:
   i. Architectural Cathode Lighting Inc.
      5301 Pacific Blvd.
      Huntington Park, California, 90255
      Tel: 323 581 8800
      Fax: 323 581 7971

   ii. Neotek Inc.
      727 109th Street
      Arlington, Texas, 76011
Custom Fixtures: Provide complete custom fixture assemblies as indicated on architectural drawings and as indicated herein.

Metal Work: Provide all metal work for custom fixtures in accordance with the quality and standards specified in Section, Ornamental Metal. Coordinate shop drawings for custom fixtures with that of adjacent trades for mounting of fixtures.

Instructions: Each lighting fixture shall be packaged with complete installation instructions and illustrations.

FIXTURE TYPES:
A. General: Fixture types, quantities, switching, dimming circuitry, etc., are described in this Specification, shown on the drawings; delineated by the details; and shall be as specified in Specification Section 26 5602, Architectural Lighting Fixture Schedule.

B. Fixture Designation: Each fixture type is designated by a letter or alphanumeric symbol as indicated on the drawings, and as specified in Specification Section 26 5602, Architectural Lighting Fixture Schedule.

PART 3 – EXECUTION

EXAMINATION:
A. Verification of Conditions: Examine the areas to receive the Work and the conditions under which the Work would be performed. Contractor shall remedy conditions detrimental to the proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.

INSTALLATION:
A. Provide adequate and sturdy support for each lighting fixture, as shown on the detail drawings. Provide all appurtenances required for the proper, safe and distortion-free installation of all fixtures in the various surfaces in which they appear. Determine surface types from the architectural drawings.

B. Provide all materials, accessories and any other equipment necessary for the complete and proper installation of all lighting fixtures specified herein.

C. Install lighting fixtures in strict accordance with the manufacturer’s recommendations and instructions.

D. Install fixtures with vent holes free of air blocking obstacles.

ARCHITECTURAL LIGHTING FIXTURES 06/12/2015 26 5601-15
E. Install pendant fixtures plumb, and at a height above the floor, as specified on the drawings.

F. Fixtures shall be carefully aligned, leveled in straight lines, and located as shown on the architectural reflected ceiling plan. The final decision as to adequacy of support and alignment, shall be given by the Architect.

G. Recessed fixtures shall have trims which fit neatly and tightly to the surfaces in which they are installed without leaks or gaps.

H. All fixtures, once lamped and tested, shall remain off for the duration of construction. Fixtures shall not be used as construction work lights by the Contractor for any duration of time. If there is evidence to the contrary then at the discretion of the Architect, all fixtures shall be re-lamped with new lamps at the conclusion of construction, at no additional cost to the Owner.

I. Do not install fixture parts such as: finishing plates; trims; reflector cones; baffles; aperture plates, light controlling elements for air-handling fixtures; or decorative elements, until after plastering, painting, completions of ceiling tiles, other work that may mar fixtures, and general cleanup, has been completed.

J. Fixtures shall be left clean at the time of acceptance of the work with every lamp in operation. If fixtures are deemed dirty by the Architect at completion of the project, the Contractor shall clean them at no additional cost to the Owner.

K. Fixtures shall be aimed or installed to provide the lighting pattern for which the fixture is designed.

3.3 LOCATION:

A. Locations of fixtures are shown diagrammatically. Verify exact quantities, location and spacing with the architectural drawings and other reference data before ordering of fixtures and during installation.

B. Notify Architect about field conditions at variance with Contract Documents before commencing installation.

C. Coordinate space conditions with all other applicable trades before ordering of fixtures.

3.4 WIRING:

A. See Electrical drawings and specifications for exact wiring requirements for all fixture types.

B. All wire utilized for connections to or between individual lamp sockets and lamp auxiliaries (i.e., wires which do not constitute through circuit wiring), must be suitable for temperature, current, and voltage conditions to which it is subjected.
C. Splices in internal wiring, shall be made in accordance with the requirements of Division 16, Electrical, suitable for the temperature and voltage conditions to which they are subjected.

3.5 ANCHORAGE TO STRUCTURE:

A. Steel Structural Members: Type of anchorage to be reviewed for appropriateness by the Architect.

B. Concrete Structure: Type of anchorage to be reviewed for appropriateness by the Architect.

C. Suspended Plaster or GWB Ceilings: Anchor to main channel runners.

D. Support all fixtures independently of duct-work or piping.

3.6 AIMING, ADJUSTMENT AND PUNCH LISTING:

A. Aiming and Adjustment: Provide labor and materials for final aiming and focusing of all adjustable fixtures under the Architect's supervision. All aiming and adjusting shall be carried out, after the entire installation is complete, unless otherwise approved by the architect due to construction scheduling. The Contractor shall provide the personnel and equipment for this task, in accordance with all applicable union agreements. All aiming and adjusting shall be per the direction of the Architect. As aiming and adjusting is completed, locking set screw, and nuts and bolts shall be tightened securely.

B. Night Work: Where possible, fixtures shall be focused during the normal working day; however, where daylight interferes with aiming, or the ability of the Architect to ascertain illumination levels; aiming shall be accomplished at night, at no additional cost to the Owner.

C. Punch Listing: During aiming and focusing the Architect shall punch list the work.

D. Timing: Aiming and adjusting shall be appropriately scheduled by the Contractor, so as to allow for sufficient time to correct punch list items observed, and if necessary additional aiming and adjusting, prior to occupancy by the Owner.

3.7 CLEANUP:

A. At the time of final acceptance by the Owner: all lighting fixtures shall have been thoroughly cleaned with materials and methods as recommended by the manufacturer; all broken parts shall have been replaced; and all lamps shall be operative.

3.8 ARCHITECTURAL LIGHTING FIXTURE CUT SHEETS, SECTION 26 5603:

A. Fixture Type Data Sheets: Refer to Specification Section 26 5603, Architectural Lighting Fixtures Cut Sheets, for: manufacturer, manufacturer's catalog number, accessories,
finish, and lamping.

END OF SECTION
SECTION 26 5602 - ARCHITECTURAL LIGHTING FIXTURE SCHEDULE

PART 1 - GENERAL

1.1 SUMMARY:

A. General: Provide Architectural Lighting Fixtures in accordance with the requirements of the Contract Documents.

1.2 RELATED SPECIFICATION SECTIONS:

A. Section 26 5601, Architectural Lighting Fixtures.

B. Section 26 5603, Architectural Lighting Fixture Cut Sheets.

PART 2 - PRODUCTS

2.1 FIXTURE TYPES:

A. Fixture Designation: Each fixture type is designated by a letter or alphanumeric symbol as indicated on the drawings, and as described herein.

B. Fixture Type Schedule: All specific information regarding each fixture type is provided in Specification Section 26 56 03, Architectural Exterior Lighting Fixtures Cut Sheets. The fixture type schedule below indicates: the as specified manufacturer; the fixture model number; the as-specified lamping; the general mounting condition; any approved alternate manufacturer(s) and corresponding specific fixture model numbers; and the requirements for shop drawings, samples, and mock-ups.

<table>
<thead>
<tr>
<th>Fixture Type</th>
<th>Manufacturer's Number</th>
<th>Lamping</th>
<th>Mounting</th>
<th>Miscellaneous Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>GL</td>
<td>Vistonaire: BOW-l-T5W-32LC-3-4K-UNV-PM24-SL-SL-DIM-WSC</td>
<td>LED</td>
<td>Pendant from parking deck existing electrical locations</td>
<td>Isolated driver compartment from LED boards, Die cast Aluminum housing, IP 66 rated, tamper proof screws, 5 year warranty, LM79 and LM80 Listed</td>
</tr>
<tr>
<td>LS1</td>
<td>Leotek: AR18-30M-MV-NW-3-BK-700-PCR</td>
<td>LED</td>
<td>Existing Pole Mounted</td>
<td>Universal mounting to existing pole, fade resistant epoxy polyester powder coat, LM79 and LM80 listed, toolless entry, 10 year warranty, IP66 rated, integrated photocell</td>
</tr>
</tbody>
</table>

PART 3 – EXECUTION
3.1 EXECUTION:

A. Conform to the requirements of Specification section 26 56 02, Architectural Lighting Fixtures.

END OF SECTION 26 5602
FIRST FLOOR LIGHTING CALCULATIONS

SCALE 1" = 1'-0"

Notes:
1. All existing wiring to new fixtures is to be waterproof connections to prevent water intrusion into the future housing.
April 17, 2012

RE: Information Required by HB 56

To Whom It May Concern:

As you may know, the State of Alabama has passed a new legislation effective January 1, 2012 requiring anyone receiving state monies to verify they are in compliance with the new immigration law. The legislation requires us to hold payment of services rendered on or after January 1, 2012 until proper verification has been obtained.

- If you are a business that is paid directly by Bishop State Community College, please complete an Affidavit of Alabama Immigration Law Compliance, an E-verify Memorandum of Understanding (www.uscis.gov/everify), and a signed Alabama Immigration Law Compliance contract and return to us.
- If you have already completed this information for another institution, please forward a copy of that to us.
- If you have subcontractors that you employ, you are also required to obtain an Affidavit of Alabama Immigration Law Compliance from them and keep on file at your establishment.

There are several pages included in this packet-including a memorandum further explaining this new law. Please take a few moments and look over this information completely. If you have any questions regarding this, please feel free to contact us at directly at (251) 405-7047 or (251) 405-7048. Otherwise, please fill out the appropriate information and return it to us as soon as possible in order to insure no disruption in payment. You may return the information by mail – Bishop State Community College, C/O Business Office, 351 N Broad St. Mobile, AL 36603.

Thank you,

Accounts Payable
Bishop State Community College
MEMORANDUM

TO: Contractors and Grantees

FROM: Bishop State Community College

DATE: April 17, 2012

RE: H.B. 56-Alabama Immigration Law Compliance

The purpose of this Memorandum is to direct your prompt attention to Alabama Immigration Law Compliance flow-down requirements that will be in effect on January 1, 2012. Those are discussed herein and can be summarized as follows:

1. Provide the Alabama Community College System (ACCS) Institution proof that you are in compliance with the immigration law by timely submitting a notarized Affidavit of Alabama Immigration Law Compliance and an E-Verify Memorandum of Understanding;
2. Provide the ACCS Institution a signed Alabama Immigration Law Compliance Contract in the attached Notice from provided;
3. Provide your subcontractors notice of their compliance obligations and Obtain from each a notarized Affidavit of Alabama Immigration Law Compliance-Subcontractor.

The requirements above, imposed by H.B. 56, are "a condition for the award of any contract, grant, or incentive by the State of Alabama, any political subdivision thereof, or any state-funded entity to a business entity or employer that employs one or more employees working in the State of Alabama. As a Contractor of Grantee, if you believe these obligations do not apply to you, please notify the Institution immediately.

For your convenience, we have included for your use a sample Affidavit of Alabama Immigration Law Compliance-Contractor and Grantees. Please complete, notarize, and return a copy to the Institution along with your attached E-Verify Memorandum of Understanding. See ALA. CODE 31-31-9 (c).

In turn, you are to obtain from your subcontractors a notarized Affidavit of Alabama Immigration Law Compliance-Subcontractor.
If you contract with more than one ACCS Institution, you will only need to have one affidavit completed and notarized, and then provide a copy to the requesting institution. You are required to maintain your subcontractors' affidavits at your offices. These documents will be subject to audit. You may provide a copy of this Memorandum with your notification memorandum to your subcontractors as an explanation for this mandatory requirement.

Finally, you will find a NOTICE OF ALABAMA IMMIGRATION LAW COMPLIANCE REQUIREMENTS TO ALL CONTRACTS ("CONTRACTORS") OF ACCS Institutions for execution by contractors and to be returned to the Institution. To the extent that there is no formal written contract between a contractor and the Institutions, such as where business is conducted by purchase order, this document shall serve as your Alabama Immigration Law Compliance Contract. Similar language will also be in contractual agreements or grant documents with the Institution.
AFFIDAVIT OF ALABAMA IMMIGRATION LAW COMPLIANCE BY A
CONTRACTOR OR GRANTEE TO ACCS INSTITUTIONS
AND/ OR THE STATE BOARD OF EDUCATION

In compliance with SECTIONS 9 (a) and (b) BEASON-HAMMON ALABAMA TAXPAYER
AND CITIZEN PROTECTION ACT (the “Act”); CODE OF ALABAMA, SECTIONS 31-13-9
(a) and (b), this Affidavit of Alabama Immigration Law Compliance is to be completed and
signed by an officer or owner of a contractor or grantee and notarized, as a condition for the
award of any contract by an ACCS Institution or by the Alabama Department of Postsecondary
Education (ADPE) to an employer that employs one or more employees in the State of Alabama
and is a recipient of funds from the Alabama Department of Postsecondary Education, or funds
from any political subdivision of the State of Alabama, or any public-funded entity (including an
ACCS Institution). Contractors and Grantees are to provide notice to their Subcontractors of
their Alabama Immigration Law Compliance obligations.

State of Alabama:
County of ________________________________:

Before me, a notary public, personally appeared ________________________________ (print name)
who, is duly authorized by the business entity/employer which appears below, being sworn, says
as follows:

As a condition for being a contractor or grantee on a project paid for by contract, grant, or
incentive by the State of Alabama, or any political subdivision thereof, or any state-funded
entity, I hereby attest that in my capacity as ______________________________________ (your position) for
________________________________________________________ (name of contractor or grantee), said Contractor or
Grantee does not knowingly employ, hire for employment, or continue to employ an
unauthorized alien. Further, Contractor or Grantee affirms that it is providing notice to its
subcontractors of their Alabama Immigration Law Compliance obligations.

I further attest that said Contractor or Grantee is enrolled in the E-Verify program and attached to
this Affidavit is our E-Verify Memorandum of Understanding confirming such program
enrollment. I have read this Affidavit and swear and affirm that it is true and correct.

________________________
Signature of Affiant

Sworn to and subscribed before me this ____ day of ________________________, 20__.
I certify that the affiant is known (or made known) to me to be the identical party he or she
claims to be.

________________________
Signature and Seal of Notary Public

To be returned to the ACCS INSTITUTION.
Notice of Alabama Immigration Law Compliance Requirements to all Contractors of ACCS INSTITUTIONS

As a Contractor, as defined in the Act, to an ACCS Institution, it is critical to your relationship (future or continuing) with the Institution that you comply with the Immigration Reform and Control Act of 1986, as amended by the Immigration Act of 1990, and the Beason-Hammon Alabama Taxpayer and Citizen Protection Act. Accordingly, please provide your Affidavit of Alabama Immigration Law Compliance with attached E-Verify Memorandum of Understanding, as requested in the attached memorandum. If you do not believe these obligations apply to you, please notify the Institution immediately.

Every contract entered into by an ACCS Institution from this point forward with a contractor will contain the following clause or one substantially similar:

Alabama Immigration Law Compliance Contract: Contractor agrees that it will fully comply with the Immigration Reform and Control Act of 1986, as amended by the Immigration Act of 1990, and the Beason-Hammon Alabama Taxpayer and Citizen Protection Act, which makes it unlawful for an employer in Alabama to knowingly hire or continue to employ an alien who is or has become unauthorized with respect to such employment or to fail to comply with the I-9 requirements or fails to use E-Verify to verify the eligibility to legally work in the United States for all of its new hires who are employed to work in the State of Alabama. Without limiting the foregoing, Contractor shall not knowingly hire, hire for employment, or continue to employ an unauthorized alien, and shall have an officer or other managerial employee who is personally familiar with the Contractor’s hiring practices to execute an affidavit to this effect on the form supplied by the Institution and return the same to the Institution. Contractor shall also enroll in the E-Verify Program prior to performing any work, or continuing to perform any ongoing work, and shall remain enrolled throughout the entire course of its performance hereunder, and shall attach to its affidavit the E-Verify Program for Employment Verification and Memorandum of Understanding and such other documentation as the Institution may require to confirm Contractor’s enrollment in the E-Verify Program. Contractor agrees not to knowingly allow any of its subcontractors, or any other party with whom it has a contract, to employ in the State of Alabama any illegal or undocumented aliens to perform any work in connection with the Project, and shall include in all of its contracts a provision substantially similar to this paragraph. If Contractor receives actual knowledge of the unauthorized status of one of its employees in the State of Alabama, it will remove that employee from the project, jobsite or premises of the Institution and shall comply with the Immigration Reform and Control Act of 1986, as amended by the Immigration Act of 1990, and the Beason-Hammon Alabama Taxpayer and Citizen Protection Act. Contractor shall require each of its subcontractors, or other parties with whom it has a contract, to act in a similar fashion. If Contractor violates any term of this provision, this Agreement will be subject to immediate termination by the Institution. To the
fullest extent permitted by law, Contractor shall defend, indemnify and hold harmless the Institution from any and all losses, consequential damages, expenses (including, but not limited to, attorneys' fees), claims, suits, liabilities, fines, penalties, and any other costs arising out of or in any way related to Contractor's failure to fulfill its obligations contained in this paragraph.

To the extent that there is no formal written contract between the Institution and the Contractor, such as where business is conducted by purchase order, this document shall serve as the Alabama Immigration Law Compliance Contract.

Alabama Immigration Law Compliance Contract Notice Acknowledged and Agreed by Contractor whose name appears below:

________________________________________
Contractor Officer or Owner Signature/Date

________________________________________
Print Name/Title/Company

Please execute and return to the ACCS INSTITUTION within the next 10 days
AFFIDAVIT OF ALABAMA IMMIGRATION LAW COMPLIANCE BY A
SUBCONTRACTOR OR GRANTEE TO ACCS INSTITUTIONS
AND/OR THE STATE BOARD OF EDUCATION

In compliance with SECTIONS 9 (a) and (b) BEASON-HAMMON ALABAMA TAXPAYER AND
CITIZEN PROTECTION ACT (the "Act"); CODE OF ALABAMA, SECTIONS 31-13-9 (a) and (b), this
Affidavit of Alabama Immigration Law Compliance is to be completed and signed by an officer or owner
of a subcontractor and notarized, as a condition for the award of any contract by an ACCS Institution
("the Institution") or by the Alabama Department of Postsecondary Education (ADPE) to a Contractor
that employs one or more employees in the State of Alabama and is a recipient of funds from the
Alabama Department of Postsecondary Education, or funds from any political subdivision of the State of
Alabama, or any public-funded entity. As determined by Chancellor of the Alabama Department of
Postsecondary Education, a notarized Subcontractor Affidavit in this format shall be acceptable by all
Contractors to all ACCS Institutions in the State of Alabama and the ADPE in compliance with the Act.
Subcontractors are to provide notice to their Subcontractors of their Alabama Immigration Law
Compliance obligations.

State of Alabama:
County of ____________________________

Before me, a notary public, personally appeared ____________________________ (print name) who, is
duly authorized by the business entity/employer which appears below, being sworn, says as follows:

As a condition for being a subcontractor to a contractor or grantee on a project paid for by contract, grant,
or incentive by the State of Alabama, or any political subdivision thereof, or any state-funded entity, I
hereby attest that in my capacity as ____________________________ (your position) for
__________________________ (name of subcontractor), said subcontractor does not
knowingly employ, hire for employment, or continue to employ an unauthorized alien. Further, subcon-
tractor affirms that it is providing notice to its subcontractors of their Alabama Immigration Law
Compliance obligations.

I further attest that said subcontractor is enrolled in the E-Verify program and attached to this Affidavit is
our E-Verify Memorandum of Understanding confirming such program enrollment. Further, as a direct
subcontractor, for those current employees for whom the E-Verify system may not be used in accordance
with applicable federal rules and regulations, subcontractor has reviewed, or had reviewed, the Form 1-9s
for each of its current employees and has a good faith belief that it has compiled with ALA. CODE § 31-
13-9(c) and (d).

I have read this Affidavit and swear and affirm that it is true and correct.

Signature of Affiant

Sworn to and subscribed before me this _____ day of ________________________, 20____.
I certify that the affiant is known (or made known) to me to be the identical party he or she claims to be.

Signature and Seal of Notary Public

To be returned to the Contractor or Grantee of an ACCS INSTITUTION.
GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDERS

All bidders must follow the bidding procedure prescribed by the State of Alabama Bid Law, Code of Alabama, 1975, sections 41-16-50.

(1) All bids must have the bid number and opening date on the outside of a sealed envelope.

(2) Only written modifications to proposals will be accepted.

(3) Bidders may submit proposals on any one or all items listed. However, the college reserves the right to select and purchase individual items.

(4) All bid prices are to be quoted F. O. B. Bishop State Community College, Mobile, Alabama 36601.

(5) All bid prices are to include delivery date of merchandise.

(6) The College reserves the right to accept or reject any bid or part thereof and waive informalities that may be deemed in the best interest of the college.

(7) Reference in the specifications to name brands, catalogue numbers, etc., are for identification purposes only and in no way are intended to eliminate or discourage the offering of substitute items which equal or exceed the specifications.

(8) If quotations are offered in substitute items, the bidder is to include catalogue/pamphlets, brochures with complete descriptions and manufacturer’s specifications.

(9) Guarantees/warranties are to be furnished by the vendor as provided by the manufacturer. (Please be specific).

(10) Bid process is not to include sale tax. Tax exemption certificates furnished upon request.

(11) All items are to be free from defects in material and workmanship. If items are found to be defective or damaged or do not meet the specification, they are to be replaced immediately by the vendor at no additional cost to the college.

(12) Quantities listed on the specification sheet are believed to be correct. However, the college reserves the right to alter or vary the quantities for a period of sixty days from the bid opening.


(14) No payments on partial shipments will be made until all items have been received in good condition.

(15) No bid may be withdrawn after the scheduled closing time for receipts of bids for a period of thirty days.
(16) Any and all damage caused to the college by the successful bidder will be repaired promptly at no cost to the college.

(17) The successful bidder for repair and installation projects must remove all shipping boxes, rubbish and other debris from the premises.

(18) The site of the project may be examined from 7:00 AM to 3:30 PM Monday thru Thursday by calling Lorenzo Grayson (251) 405-7170.

(19) The bidder is to examine the site of the project and inform himself fully in regard to all conditions pertaining to the place where the work is to be done.

(20) Payment will be made Net thirty (30) days.

(21) Bishop State pays by invoice. All purchases must be made with BSCC purchase orders. Terms will become a part of the bid. Bid prices must be guaranteed for a period of at least ninety (90) days.

(22) The successful vendor must furnish the college a Vendor Disclosure from prior to the awarding of the contract. Vendor will comply with all federal guidelines to include but not limited to the Federal Copeland Anti-kick Back Act, Wage Hour Act, Davis Bacon Act and EPA Standards as this project may be paid using federal funds.

(23) Bishop State Community College is a non-profit state supported institution and as such is tax exempt. Our Tax ID Number is 49-1557. Vendors will comply with ACT No. 2006-557 Subsection 41-4-116 which requires that each vendor, contractor, or their affiliate must certify that it is registered to collect and remit Alabama State and local sales, use and/or lease taxes on all taxable sales and leases in Alabama. By submitting this, the bidder is hereby certifying that they are in full compliance with ACT No. 2006-557.

(24) In compliance with SECTIONS 9 (a) and (b) BEASON-HAMMON ALABAMA TAXPAYER AND CITIZEN PROTECTION ACT (the “Act”); CODE OF ALABAMA, SECTIONS 31-13-9 (a) and (b), an Affidavit of Alabama Immigration Law Compliance is to be completed and signed by an officer or owner of a contractor or grantee and notarized, as a condition for the award of any contract by an ACCS Institution or by the Alabama Department of Postsecondary Education (ADPE) to an employer that employs one or more employees in the State of Alabama and is a recipient of funds from the Alabama Department of Postsecondary Education, or funds from any political subdivision of the State of Alabama, or any public-funded entity (including an ACCS Institution). Contractors and Grantees are to provide notice to their Subcontractors of their Alabama Immigration Law Compliance obligations.

(25) This proposal is to be made without connection with any other person, company parties making a bid or proposal; and is to be in all aspects fair and in good faith, without collusion or fraud.

Any additional questions may be addressed to Bonita Allen at (251) 405-7295.