IN V I T AT I O N T O B I D  N U M B E R : T-2925  
T I T L E : Theatrical Lighting  
D U E  D A T E : May 6, 2014  
T I M E : 3:00 PM local time  
B U Y E R / T E C H N I C A L  C O N T A C T :  
Greg Van Wart,  
Telephone number: 505-224-4546  
Fax number: 505-224-4548  
E-mail address: gvanwart@cnm.edu  
F R E I G H T  T E R M S : FOB Destination Freight Included  
P A Y M E N T  T E R M S : Net 30 Days  
N U M B E R  O F  R E S P O N S E S  R E Q U I R E D :  
One Original and One (1) Copy  

I N S T R U C T I O N S  T O  B I D D E R S :  
The Central New Mexico Community College (CNM) invites you to submit a bid on the material and/or services specified within this Request for Bid (RFB). Please read carefully all instructions, specifications, terms and conditions. Failure to comply with the instructions, specifications, terms and conditions of the Invitation may result in your bid being declared non-responsive. The purchase of materials and/or services awarded under this Invitation are subject to CNM's General Terms and Conditions as well as all statements contained in this Request for Bid. All terms and conditions of the Request for Bid will remain unchanged for the duration of any resultant agreement(s) and will supersede and take precedence over any bidder agreement forms. Additional or different terms proposed by the vendor are hereby rejected. New Mexico criminal law prohibits bribes, gratuities and kickbacks (13-1-28 through 13-1-199, NMSA 1978).

To bid on the goods or services specified herein, type or print the information requested in the spaces provided on the response forms supplied per SECTIONS D, E.1 AND E.2. All blank spaces for bid prices, manufacturer’s name and product number offered, delivery, warranty, etc. must be written in ink or typed. The completed form must then be printed out, signed, and submitted with the SEALED response. Corrections shall be initialed in ink by person signing the bid. When bidder makes mistakes in calculating total price where quantities are involved, the unit price shall prevail. If you wish to offer more than one bid for a single item or group of items specified, copy the response form and fill in all spaces by typing or printing in ink. Clearly label the top as an alternate bid, and submit all responses in the same envelope as the original bid. Submit the number of copies of your bid specified above. Each copy is to include all supporting documentation. Failure to submit the required number of copies may result in your bid being considered non-responsive.

The completed bid package must be placed in a SEALED ENVELOPE and submitted to the above address no later than the time and date specified above. Failure to properly identify this RFB # and Bid Due Date and Time on the lower left outside corner of your sealed proposal envelope may result in either premature opening of your proposal or failure to open it upon the correct closing date and time. Fax or email responses will not be considered for award.

Note: Any and all clarifications of instructions, specifications, scope, requirements, terms and conditions, insurance, bonds, or bid preparation, etc. shall be made only by the Buyer listed above. All requests for clarification or exception to instructions, terms and conditions, specifications, requirements, scope, insurance, bonds, or bid preparation, etc. must be made in writing, addressed to the Buyer listed above, and submitted no later than five (5) days prior to the bid due date. Technical questions concerning the requirements of the requester should be directed to the technical clarification contact listed above. If appropriate, CNM Purchasing shall issue written Amendments and addendums and post them at http://www.cnm.edu/depts/purchasing/request-for-bids. It is ultimately the offeror’s responsibility to check for any updates to this procurement.

T A B L E  O F  C O N T E N T S

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE #</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SECTION A: Standard Bid Terms and Conditions</td>
<td>2 - 5</td>
<td></td>
</tr>
<tr>
<td>SECTION B: CNM General Terms and Conditions</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SECTION C: Scope of Work and Specifications</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>SECTION D: Response Form</td>
<td>8 - 15</td>
<td></td>
</tr>
<tr>
<td>SECTION E.1: Signature of Firm’s Authorized Representative</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>SECTION E.2: Debarment/Suspension Status &amp; Non-Collusion Affidavit Form</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>EXHIBIT A: NEW MEXICO RESIDENT VETERANS PREFERENCE CERTIFICATION</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>EXHIBIT B: Scope of Work</td>
<td>14 pgs.</td>
<td></td>
</tr>
<tr>
<td>EXHIBIT C: Data power cable</td>
<td>1 pg.</td>
<td></td>
</tr>
<tr>
<td>EXHIBIT D: PLCYC specifications</td>
<td>4 pgs.</td>
<td></td>
</tr>
<tr>
<td>EXHIBIT E: PLo fresnel specifications</td>
<td>7 pgs.</td>
<td></td>
</tr>
<tr>
<td>EXHIBIT F: PLo profile specifications</td>
<td>7 pgs.</td>
<td></td>
</tr>
</tbody>
</table>
SECTION A: STANDARD BID TERMS AND CONDITIONS

1. ACCEPTANCE.
   Equipment and/or Services - Right to reject; specifications.
   (I) All equipment and/or services furnished will be subject to inspection and testing by buyer and buyer's agents upon arrival and after installation. Any equipment and/or services found by buyer in its sole discretion to be not in accordance with the specifications, drawings, plans, instructions, performance criteria, samples or other description furnished or adopted by buyer for the order or otherwise not in conformance with the terms of the order shall be subject to rejection, return and back charge as appropriate, together with the necessary costs of handling and shipping. Buyer's payment of all or any part of the purchase price prior to such inspection, testing and non-acceptance of the equipment and/or services involved shall not constitute a waiver of any of buyer's rights hereunder.
   (II) When supplier believes that the work and equipment are "finally completed", it shall notify buyer in writing and upon receipt of said notice, buyer shall inspect the work and either accept such work as being "finally completed" or identify in writing to supplier that the work is not finally completed in the opinion of buyer and state specifically why buyer believes the work is not finally completed. The work and equipment shall be considered finally completed following successful start-up of the equipment and full operation of such equipment for a reasonable number of days or for such period of time set forth in the applicable Purchase Order, and at that time supplier shall submit a final payment application for all amounts remaining due and owing to supplier under the applicable Purchase Order.

2. ACKNOWLEDGMENT OF AMENDMENT/ADDENDUM.
   Bidders shall acknowledge receipt of all amendments/Addenda to this Invitation by identifying the amendment number and date in the space provided on the form labeled “Signature of Firm’s Authorized Representative”. Failure to acknowledge Amendments/Addendums may render the offer as being non-responsive. Non-responsive offers will not be considered for award.

3. ADDRESSES FOR NOTICES.
   Any notice required to be given or which may be given under this Invitation or the resultant price agreement shall be in writing and delivered in person or via first class mail to the following address:
   Central New Mexico Community College
   Purchasing Department, Room A109
   525 Buena Vista, SE
   Albuquerque, NM 87106

4. ALTERNATE BIDS. The brand names, part and or catalog numbers are used to describe the standard of quality, performance and characteristics desired and are not intended to limit or restrict competition. Alternate bids will be accepted and considered, unless otherwise specified in the supplementary bid terms and conditions, provided they are equal to and meet all specifications of this Invitation which may include all specifications of the Brand used to identify the quality of the goods and/or services requested. If offering a brand, part or catalog number other than that listed, please indicate items offered and include literature and or technical specifications. Failure to do so may cause offer to be declared non-responsive. CNM reserves the right to make the final determination of whether an alternate bid is equal. It is the contractor's responsibility to provide, as part of the bid, descriptive literature and specification information on all alternates bid. If the bid is not clearly identified as an alternate item, it is understood that the items are bid as specified.

5. AWARD OF BIDS. CNM reserves the right to award this bid based on price and any other evaluation criteria contained herein; to reject any and all bids or any part thereof, and to accept the bid that is in the best interest of CNM.

6. AWARDS. CNM reserves the right to make multiple awards of the items, projects and/or sections of this Invitation. Price agreements may be awarded on a unit basis for each individually numbered item to the lowest responsible bidder; or when a group of items have been consolidated for uniformity, it may be necessary to bid all inclusive items to receive consideration.

7. BID NEGOTIATION. Bidders will not be afforded an opportunity for discussion and revision of bids.

8. BID OPENING. Bid will be opened publicly on the bid due date and time specified on the bid cover sheet in the Purchasing Department Office. Anyone may attend the opening.

9. BRAND NAME NOT REQUIRED. Brand name restrictions do not apply to this invitation.

10. CANCELLATION. CNM reserves the right to cancel without penalty this Invitation, the resultant price agreement or any portion thereof for unsatisfactory performance, unavailability of funds, or when it is in the best interest of CNM.

11. CHANGES/ALTERATIONS AFTER AWARD. Changes or alterations after the award can only be made if agreed to in writing by CNM.

12. CLEAN UP. It is the contractor's responsibility that the job site be kept clean and free of rubble while work is performed under the resultant price agreement. Upon completion of the work, all areas shall be cleared of all contractor's equipment, excess materials and rubble, and the site shall be left broom clean. Disposal of any debris shall be to an appropriate disposal site in accordance with any laws applicable to the type of material being disposed.

13. CONFIDENTIALITY. Any information provided to or developed by the Contractor in the performance of the resultant agreement shall be kept confidential and shall not be made available to any other individual or organization by the Contractor without prior written approval of CNM.

14. CONTRACT. CNM’s purchase order shall be considered the binding agreement/contract. In the event of any inconsistent or incompatible provisions, the purchase order (excluding contractor’s bid) shall take precedence, followed by the provisions of the Invitation to Bid, and then lastly, the terms of the vendor’s bid response.

15. CONTRACTOR GUARANTEE. The contractor shall guarantee all materials, equipment and workmanship furnished and or installed to be free of defects and shall agree to replace solely at his/her expense any and all defective equipment, parts, etc. within a one year period after the date of acceptance of the items and or installation by CNM, unless otherwise agreed to in writing at the time of award.

16. DAMAGE AND SECURITY OF CNM PROPERTY. The contractor shall be responsible for all damage to persons or property that occurs as a result of his/her fault or negligence, or that of any of his/her employees, agents and or subcontractors. He/she shall save and keep harmless CNM against all loss, cost, damage, claims, expense or liability in connection with the performance of the resultant price agreement. Any equipment or facilities damaged by the contractor's operations shall be repaired and or restored to their original condition at the contractor's expense, including but not limited to cleaning and painting. The contractor shall be responsible for security of all his/her equipment and for the protection of work done under the resultant price agreement until final acceptance of the work.

17. DELIVERY. Delivery is an important consideration and may be a factor in determining the award. Please state your earliest delivery date in the space provided on the response form. Delivery to be made to CNM Receiving/Warehousing, 901 Buena Vista SE, Albuquerque, NM 87106, unless otherwise specified.
18. **DELIVERY DELAYS.** If after award, the contractor becomes aware of possible problems that could result in delay in the agreed-to delivery schedule, the contractor must immediately notify the Buyer or the designated representative. The initial notification of the delay may be verbal with a written confirmation, giving the probable cause and effect, with recommendations for alternate action. Nothing in this paragraph will be interpreted as relieving the contractor of his/her contractual obligations. However, failure to notify CNM promptly will be a basis for determining the contractor responsibility in an otherwise excusable delay.

19. **DISCREPANCIES.** If any bidder is of the opinion that the bid specifications as written preclude him/her/it from submitting a response to this Invitation to Bid, it is specifically requested that the bidder’s opinion be made known to the Buyer, in writing, at least seven (7) days prior to the established bid opening date.

20. **DISRUPTION OF NORMAL ACTIVITY.** All work shall be performed so as not to interfere with normal CNM activities. When it is necessary to disrupt normal activities, the schedule of work and the areas to be affected must be approved by CNM's authorized representative prior to commencement of the work.

21. **EMPLOYEE CERTIFICATION.** The contractor and all contractor's employees utilized on the work to be performed under this Invitation must have the proper certification(s) and license(s) to comply with State and local requirements connected to this invitation. The contractor shall use only fully qualified and approved service technicians to perform inspections, service and or repairs under this Invitation.

22. **EQUIPMENT REQUIRED.** The contractor shall be responsible for supplying and maintaining all equipment and materials necessary to complete the work under this Invitation except as otherwise noted in the Specifications.

23. **EXCLUSIVE RIGHTS.** Under no circumstances shall this Agreement be construed or deemed to be a contract whereby CNM grants Contractor exclusive right to furnish CNM its needs or requirements for services described herein.

24. **FORCE MAJEURE.** Neither party to the resultant agreement will be liable to the other for any failure or delay in performance under the resultant agreement due to circumstances beyond its reasonable control including, but not limited to, acts of God, accidents, labor disputes, acts or omissions and defaults of third parties, and official, government or judicial action not the result of negligence of the party failing or late in performing.

25. **GENERAL TERMS AND CONDITIONS.** CNM’s General Terms and Conditions are an equal and integral part of this Invitation.

26. **GOVERNING LAW.** This Invitation and the resultant price agreement will be interpreted and governed by the Laws of the State of New Mexico.

27. **INSPECTIONS.** The contractor shall be responsible for securing at his/her expense, all required inspections to comply with Federal, State, and or local regulations governing the work performed under this Invitation. CNM will inspect all work done under this invitation to verify compliance with specifications contained herein. The contractor shall call for all required inspections and have a representative present at all inspections.

28. **INSURANCE REQUIREMENTS.** The contractor may be required to carry insurance meeting the requirements in the Exhibit labeled “INSURANCE REQUIREMENTS” or as noted in the specifications. Contractor shall be required ONLY UPON REQUEST BY CNM BUYER WHEN APPROPRIATE to submit the Certificate of Insurance to the appropriate Buyer prior to commencing work under the resultant price agreement. Insurance must remain in effect for the entire term of the resultant price agreement and must be extended to coincide with any future price agreement extension. This Request for Bids Number must appear on the Certificate of Insurance. Note: A potential contractor or the Contractor agrees to comply with state laws and rules pertaining to workers’ compensation insurance coverage for its employees. If a contractor fails to comply with the Workers’ Compensation Act and applicable rules when required to do so, the contract may be canceled immediately.

29. **INVITATION TERMS PART OF CONTRACT.** This Invitation along with its attachments will be considered to be part of the resultant price agreement and or purchase order and is to be incorporated by reference.

30. **LATE SUBMISSIONS.** Late submissions of bids will not be considered unless it is determined by CNM that the late receipt was due solely to mishandling by CNM or if the bid is the only one received. All other late submissions will be returned unopened.

31. **MODIFICATIONS.** Only modifications received prior to the time specified for the closing will be accepted. No modifications will be accepted following the opening. Technical clarifications of the offer may be requested by the Buyer following the opening.

32. **NEW MATERIALS REQUIRED.** All materials and equipment delivered and or installed under this Invitation shall be new and be the standard products of a manufacturer regularly engaged in the production of the materials and equipment (unless otherwise specified in the supplementary bid terms and conditions). Where two or more units of the same class of materials and or equipment are required, the units shall be the products of the same manufacturer. Any manufacturer's data supplied with the items shall be submitted to CNM's authorized representative.

33. **NUMBER FOR BID CLARIFICATION.** The Bidder should include a local or toll-free number for bid clarifications. Failure to do so may result in the bid being declared non-responsive.

34. **OSHA REGULATIONS.** The contractor shall abide by Federal Occupational Safety and Health Administration (OSHA) regulations and the State of New Mexico Environmental Improvement Board occupational health and safety regulations that apply to the work performed under this Invitation. ALL PRODUCTS CONTAINING HAZARDOUS SUBSTANCES MUST BE PROPERLY LABELED AND ACCOMPANIED BY MATERIAL SAFETY DATA SHEETS. The contractor shall defend, indemnify and hold CNM free and harmless against any and all claims, loss, liability and expense resulting from any alleged violations of said regulations including but not limited to fines, penalties, judgments, court costs and attorney fees.

35. **OWNERSHIP OF MATERIAL.** During the term of the resultant agreement, ownership of all data, material, and documentation originated and prepared by the contractor for CNM shall belong exclusively to CNM.

36. **PACKAGING.** Packaging of materials shall be suitable to insure that the materials are received in an undamaged condition. All material returns will be at the contractor’s expense.

37. **PAYMENT DISCOUNTS.** CNM will take advantage of payment discounts offered whenever possible; however, payment discounts will not be used as a means to determine the lowest responsible bidder.
38. **PERIOD FOR BID ACCEPTANCE.** The Bidder agrees, if his/her bid is accepted within 90 calendar days of the closing date, to furnish the goods and services at the prices set forth in his/her bid, delivered to the designated point(s) within the specified time in the delivery schedule. Failure to comply may result in removal from the bidlist. An additional time period may be requested elsewhere in this Invitation.

39. **POTENTIAL COSTS UNSPECIFIED.** The contractor shall include in his/her bid all material and labor costs known to be required to complete the work under this Invitation including any materials, labor or other costs that are not specifically identified in the specifications. Any unspecified costs should be identified and included as a separate item in the price bid.

40. **POTENTIAL COSTS-UNSPECIFIED, RENTAL.** The contractor shall include as a separate item any unspecified additional cost which may be incurred by CNM as a result of a rental under this Invitation. This may include but should not be limited to responsibility for damages to equipment, excessive wear charges, insurance, etc. Please note that no additional costs will be paid by CNM on rentals under this Invitation unless these potential additional costs have been identified in the original offer.

41. **PUBLIC INFORMATION.** All information, except that marked as confidential, will become public information at the time that the Bid is opened. Confidential information must be marked “CONFIDENTIAL” in red letters in the upper right hand corner of the sheets containing the confidential information. Price and information concerning the specifications cannot be considered confidential.

42. **REFERENCES MAY BE REQUIRED.** Bidder may be requested to furnish the minimum number of references requested herein. Failure to submit the information may result in your bid being considered non-responsive. Bidder, by furnishing these references, agrees to allow CNM to contact any person or organization listed, and to utilize information obtained in the evaluation of the bid response.

43. **RELEASES.** Upon final payment of the amount due under the terms of the resultant agreement, the Contractor shall release CNM, its officers and employees from all liabilities, claims and obligations arising from or under the terms of the resultant agreement. The Contractor agrees not to purport to bind CNM to any obligation not assumed herein by CNM unless CNM has expressly authorized the Contractor to do so and then only within the strict limits of that authority.

44. **REPLACEMENT PARTS.** The quality of all replacement parts shall be equal or greater than the quality of the original parts being replaced. All replacement parts shall be new unless otherwise agreed to in writing.

45. **REPORTS AND INFORMATION.** At such times and in such forms as CNM may require, there shall be furnished to CNM such statements, records, reports, data and information, as CNM may require pertaining to matters covered by all resultant agreements to this Invitation to Bid.

46. **RESIDENTIAL PREFERENCE.** In evaluating bids for purchases over $60,000 using State funds, residential preference of 5% will be used in compliance with Sections 13-1-21 of the New Mexico Statutes 1978 Annotated, Chapter 13. Federal law prohibits the use of residential preference when the expenditure involves Federal funds.

47. **RESPONSIBLE BIDDER.** CNM reserves the right to conduct any investigations deemed necessary to determine the responsibility of a bidder (i.e., prove that his/her financial resources, production and service facilities, personnel, service reputation and experience are adequate to make satisfactory delivery of the services, construction or items of tangible personal property described in the invitation for bids). Bidder shall provide audited financial statements if requested by CNM.

48. **RESPONSIVENESS OF BIDS.** Bidders are hereby expressly instructed that all bids in response to this solicitation shall meet all specifications and requirements of this solicitation.

49. **SEVERABILITY.** If any provision of the resultant agreement is found invalid or unenforceable, the remainder of the resultant price agreement will be enforced to the maximum extent permissible and the legality and enforceability of the other provisions of the resultant agreement will not be affected.

50. **SIGNATURE.** The response must be signed by an authorized representative in order for bid to be considered responsive. Compete and return the form labeled “Signature of Firm’s Authorized Representative” with bid response.

51. **SITE FAMILIARITY.** The contractor shall be responsible for thoroughly inspecting the site and work to be done prior to submitting a bid. The contractor warrants by this submission that he/she has thoroughly inspected the site and work to be done and that his/her offer includes all costs required to complete the work. The failure of the contractor to be fully informed regarding the requirements of this Invitation will not constitute grounds for any claim, demand for adjustment or the withdrawal of a bid after the opening.

52. **SITE INSPECTION.** The site(s) referenced in this document are available for inspection. Arrangements can be made by calling the contact for Technical Clarification shown on the cover page. Note, bidders shall not consider any comments made by employees of CNM to be modifications to the bid specifications unless distributed as a written amendment to this bid by CNM’s Purchasing Department. All requests for clarification must be submitted in writing to CNM’s Purchasing Department to receive consideration. Such requests must be submitted no later than five (5) days prior to the bid due date.

53. **STATE AND LOCAL ORDINANCES.** The contractor shall perform work under the resultant price agreement in strict accordance with the latest version of all State and local codes, ordinances, and regulations governing the work involved. All materials and labor necessary to comply with the rules, regulations and ordinances shall be provided by the contractor. Where the drawings and specifications indicate materials or construction in excess of the code requirements, the drawings and or specifications shall govern. The contractor shall be responsible for the final execution of the work to meet these requirements. In the event of a conflict between various codes and standards, the more stringent shall apply.

54. **STATUS OF CONTRACTOR.** The Contractor is an independent contractor performing services for CNM and neither he/she nor his/her agents or employees shall, as a result of the resultant agreement, accrue leave, retirement, insurance, bonding authority, use of CNM vehicles, or any other benefits, prerequisites or allowances normally afforded only to employees of CNM. The contractor acknowledges that all sums received under the resultant agreement are personally reportable by him/her for income, self-employment and other applicable taxes.

55. **SUBCONTRACTORS.** Any work subcontracted by the contractor shall require the prior written approval of the subcontractor by CNM.

56. **SUBMISSIONS OF SAMPLES/DRAWINGS/LITERATURE.** It may be necessary to test samples or have demonstrations to make an award. All samples, when required, shall be furnished free of expense to CNM. Returns shall only be made at the Bidder’s request and expense. Bid samples or descriptive literature should not be submitted unless expressly requested; and, regardless of any attempt by a bidder to condition the bid, unsolicited bid samples or descriptive literature shall be submitted at the Bidder’s risk.

BID #T-2925 Advertised, Thursday, April 24, 2014
Copyright CNM, 2013. All rights reserved.
57. **TAXES.** CNM is exempt from Federal Excise Taxes and from New Mexico Sales Taxes on Materials, except construction materials used by a contractor. Services are not exempt. Taxes on services should be included as a separate line item and not included in your base price bid. Applicable taxes are excluded from the evaluation of the bid.

58. **TECHNICALITIES.** CNM reserves the right to waive any technical irregularities in the form of the bid of the low bidder which do not alter price, quality or quantity of the services, construction or items of tangible personal property bid.

59. **TELEGRAPHIC/FACSIMILE BIDS.** Telegraphic/Facsimile bids will not be considered. However, bids may be modified by telegraphic/facsimile notice, provided that the notice is received by the time and date specified for the closing.

60. **WITHDRAWAL OF BIDS.** Bids may be withdrawn by written notice, telegram or in person by a bidder or an authorized representative any time prior to the award. Bids requiring bid security may result in forfeiture of the security if the bid is withdrawn following the opening.

61. **WORKMANSHIP/COOPERATION.** All work shall be done in a neat, workman-like manner using acceptable equipment and methods. The contractor will cooperate with CNM and other contractors and coordinate his/her work involving other contractors through CNM's authorized representative.
SECTION B.

Central New Mexico Community College

GENERAL TERMS AND CONDITIONS

1. Inspection and Audit. a. CNM may inspect, at any reasonable time, any part of Seller's plant or place of business which is related to performance of this Purchase Order. Acceptance of delivery shall not be considered acceptance of the materials, supplies or services furnished. Final inspection of product and services will be made at the destination. Any testing or inspection procedures required by the specification are in addition to CNM's rights under this paragraph.

b. The Contractor shall maintain detailed time records which indicate the date, time and nature of services rendered. Contractor shall maintain detailed records of all materials or supplies delivered to CNM under this Purchase Order, including serial numbers and other appropriate identifiers. These records shall be subject to internal and external audit. CNM shall have the right to audit billings both before and after payment. Payment under the resultant Agreement shall not preclude CNM from recovering excessive, erroneous or illegal payments previously made to the Contractor.

2. Warranties. Seller warrants the materials, supplies or services furnished to be exactly as specified in this order, free from defects in Seller's design, labor, materials and manufacture, and to be in compliance with any drawings or specifications incorporated herein and with any sample products furnished by Seller. All applicable UCC warranties, express and implied, are incorporated herein.

3. Acceptance and Rejection. If prior to final acceptance, any materials, supplies or service are found to be defective or not as specified, or, if CNM is entitled to revoke acceptance of them, CNM may reject or revoke acceptance, require Seller to correct without charge within a reasonable time, or require delivery at an equitable reduction in price at CNM's option. Seller shall reimburse CNM for all incidental and consequential costs related to unaccepted materials, supplies or service. Notwithstanding final acceptance and payment, Seller shall be liable for latent defects, fraud, or such gross mistakes as amount to fraud. Acceptance of performance shall not waive CNM's right to claim damages for breach.

4. Assignment. This order is assignable by CNM. Except as to any payment due hereunder, this order is not assignable by Seller without written approval of CNM.

5. Changes. CNM may make changes within the general scope of this order by giving notice to Seller and subsequently confirming such changes in writing. If such changes affect the cost of, or the time required for performance of this order, an appropriate equitable adjustment shall be made. No change by Seller shall be recognized without written approval of CNM. Any claim of Seller for an adjustment under this paragraph must be made in writing within thirty (30) days from the date of receipt of Seller's notification of such change, unless CNM waives this notice requirement. Nothing in this paragraph shall excuse Seller from proceeding with performance of the order as changed hereunder.

6. Termination and Delays. CNM, by written notice stating the extent and effective date may terminate this order for convenience in whole or in part, at any time. CNM shall pay Seller as full compensation for all labor, materials and services furnished (including overhead and profit) to the date of termination. The contractor shall cooperate with CNM and with reasonable costs to expedite the withdrawal of such materials, supplies and equipment. CNM may terminate this order for default or any other cause or reason, which shall, in the discretion of CNM, be sufficient to warrant such action. In the event of any default by Seller or termination of this order for any reason, CNM may purchase complimentary materials, supplies and services from other sources. In performing the services and/or furnishing the goods specified in this purchase order, the vendor/contractor certifies that it is not suspended, debarred or declared ineligible from entering into contracts with the Executive Branch of the Federal Government, any State agency or local government. CNM may deduct from amounts due hereunder any amount of this order as a penalty for the violation of any contract, agreement or understanding with the Government.

7. Affirmative Action. Seller shall not discriminate with regard to hiring, termination or other incidents of employment on the basis of race, sex, national origin, religion, age or handicap. Seller agrees to: a) adhere to the principles set forth in Executive Order 11246 and 11375, and to undertake specifically the following affirmative policies and actions to promote equal opportunity for handicapped persons, minority group persons and women; b) take affirmative steps to hire and promote women and minority group persons at all job levels and in all aspects of employment; c) communicate this policy in both English and Spanish to all persons concerned within the company, with outside recruiting services and the minority community at large; d) provide CNM on request a breakdown of labor force by ethnic group, sex, and job category; and e) discuss with CNM its policies and practices relating to its affirmative action program.

8. Indemnification and Insurance. Seller assumes the entire responsibility and liability for losses, expenses, damages, demands and claims in connection with or arising out of any actual or alleged personal injury (including death) and/or damage or destruction to property sustained or alleged to have been sustained in connection with or arising out of the performance of the work by the Seller, its agents, employees, subcontractors or consultants, except to the extent of liability arising out of the negligent performance of the work by or willful misconduct of CNM. In any event, CNM's liability shall be subject to the limitations of the New Mexico Tort Claims Act. Seller shall indemnify and hold harmless CNM, its officers, agents, and employees from any and all liability for such losses, expenses, damages, demands, and claims and shall defend any suit or action brought against any or all of them based on any actual or alleged personal injury or damage and shall pay any damage costs and expenses including attorneys fees, in connection with or resulting from such suit or action. Seller agrees that it and its subcontractors will maintain public liability and property damage insurance in an amount covering the above obligation and will maintain workers compensation coverage covering all employees performing this order.

9. Patent and Copyright Indemnity. Seller shall pay all royalty and license fees relating to deliverables and other items covered hereby. In the event any third party shall claim that the reproduction or manufacture, use, or sale of goods or items covered hereby infringes any copyright, trademark, patent, or other intellectual property rights, Seller shall indemnify and hold CNM harmless from any cost, expense, damage, or loss resulting therefrom.

10. Discounts. Any discount time will not begin until the materials, supplies, or services have been received and accepted and correct invoice received by CNM's Purchasing Department. In the event testing is required, the discount time shall begin upon the completion of the tests.

11. Penalties. The Procurement Code, Section 13-1-28 et seq., imposes civil and criminal penalties for its violation. In addition, the New Mexico criminal statutes impose felony penalties for bribes, gratuities and kickbacks.

12. Title and Delivery. Title to the materials and supplies passed hereunder shall pass to CNM at the F.O.B. point specified subject to the right of CNM to reject upon inspection. For any exception to the delivery date specified, Seller shall give prior notification and obtain approval from CNM's Purchasing Department. Time is of the essence and the order is subject to termination for failure to deliver on time.

13. Payment Charges. Late payment charges shall be paid in the amount and under the conditions stated in Section 13-1-158, NMSA 1978.

14. Other Applicable Laws. Any provision required to be included in a contract of this type by any applicable and valid Executive order, federal, state or local law, ordinance, rule or regulation shall be deemed to be incorporated herein.

15. OSHA Regulations. The contractor shall abide by Federal Occupational Safety and Health Administration (OSHA) regulations and the State of New Mexico Environmental Improvement Board occupational health and safety regulations that apply to the work performed under this invitation.

16. Debarment/ Suspension. In performing the services and/or furnishing the goods specified within this purchase order, the vendor/contractor certifies that it is not suspended, debarred or declared ineligible from entering into contracts with the Executive Branch of the Federal Government, any State agency or local public body; nor is in receipt of a notice of proposed debarment or suspension from the Executive Branch of the federal Government, any State agency or local public body.

17. Applicable Laws. Each party acknowledges that the New Mexico Procurement Code, NMSA 1978 13-1-28 through .199, as amended, applies to every CNM purchase or contract agreement of tangible personal property, services and construction, including participation made pursuant to this purchase order. Further, each party acknowledges that it will be responsible for claims or damages arising from personal injury or damage to persons or property to the extent they result from negligence of its employees or agents and that the liability of CNM shall be subject in all cases to the immunities and limitations of the New Mexico Tort Claims Act, NMSA 1978 41-4-1 through .27, as amended.

SECTION 2

GOVERNMENT SUBCONTRACT PROVISIONS

If this order is subcontract under a U.S. Government Prime Contract, the applicable clauses listed below are incorporated into, and forms a part of, the terms and conditions of this order. In the event of any conflict between the terms and condition of Section 2 and any other provisions of this order the terms and conditions of Section 2 shall prevail. The clauses contained in the following paragraphs of the Federal Acquisition Regulations are incorporated herein by reference. For purposes of this Purchase Order, in the following clauses, the term "contractor" shall mean "this order", the term "counterparty" shall mean "Seller" and the term "Government" and "Contracting Officer" shall mean "Albuquerque CNM" and the "Director of Purchasing", respectively.

The following provisions of the Federal Acquisition Regulations (FAR) apply regardless of the amount of this order:

- Anti-kickback Procedures: 52.203-7
- Buy American Act and Balance of Payments Program 52.225-7001
- Contract Work Hours and Safety Standards Acts-Overtime Comp. 52.222-4
- Equal Employment Opportunity 52.222-26
- Integrity of Unit Prices 52.215-26(a)(b)
- Notice to the Government of Labor Disputes 52.222-1
- Preference for U.S. Flag Air Carriers (For internal air travel) 52.247-63
- Restriction on Subcontractor Sales to the Government 52.203-6
- Service Contract Act of 1965 (Reserved) 52.222-41
- Termination for Convenience of Government (Education and other Nonprofit Institutions) 52.249-5(a)(f)

CNM reserves all administrative, contractual, and legal remedies against Seller in case of any breaches of the contract.

* On contracts funded by federal grants, only the Special Terms and Conditions clauses identified by the asterisk (*) are incorporated into this contract.
Central New Mexico Community College (CNM) Purchasing Department is soliciting bids for the purchase of Theatrical Lighting Supplies on behalf of the Facilities Department (PPD). Bidders are encouraged to submit prices on any or all items as their ability to furnish dictates. Note: CNM is eligible for academic pricing. CNM is a secondary educational institution supported by the State of New Mexico. Please refer to Section D BID Response Form and Exhibits B (scope of work), C, D, E and F for specifications.

INSTRUCTIONS TO BIDDERS

Bidders are encouraged to submit prices on any or all items as their ability to furnish dictates. CNM reserves the right to make multiple awards of the items, projects and/or sections of this Invitation.

1. All prices shall be F.O.B. Destination to and shall include all charges, including but not limited to freight, insurance, and other associated costs that may be imposed in fulfilling the terms of this agreement. All equipment, labor, packaging, supplies, materials, freight, shipping, handling, delivery, (set up, installation if applicable), manufacturer’s warranty, insurance, documentation and other associated costs are to be included in the unit costs bid.

2. The bidder should present in detail, all products and services offered in response to this invitation. Bidders shall provide enough information to support that items offered meet all critical specifications identified in Bidder’s Response Form.

3. Brand name or equal specification:
   a. Alternate brands will be considered.
   b. The use of a brand name is for the purpose of describing the standard of quality, performance and characteristics desired and is not intended to limit or restrict competition.
   c. Any offer that proposes like quality, design or performance will be considered, providing sufficient descriptive literature, specification sheets, etc. are included to properly evaluate the equivalency.
   d. It is the bidder’s responsibility to make sure all products proposed are adequately described.
   e. Bidders shall provide brand name, model, and all applicable part numbers, for all substitute items offered, in Section D of the Bidder’s Response Form.

4. New and unused equipment is required; used or gray market products are not allowed.

5. It should not be assumed that the buyer has specific knowledge of the products proposed, but has sufficient technical background to conduct an evaluation when presented complete information.

6. Questions should be directed to the Buyer, Greg Van Wart (505) 224-4546 or gvanwart@cnm.edu. Note: Any and all clarifications of instructions, specifications, scope, requirements, terms and conditions, insurance, or bid preparation, etc. shall be made only by the Buyer. All requests for clarification or exception to instructions, terms and conditions, specifications, requirements, scope, insurance, or bid preparation, etc. must be made in writing, addressed to the Buyer and submitted no later than five (5) days prior to the bid due date. If appropriate, CNM Purchasing shall issue a written Amendment/Addendum, which shall thereafter become part of this Invitation to Bid. No oral interpretations shall be binding upon CNM unless reduced to a written Amendment/Addendum issued by CNM Purchasing prior to the bid due date and time.

7. Bidders shall provide no less than manufacturer’s warranty or as indicated on the Bid response form whichever is greater.

8. CNM reserves the right to make multiple awards of the items, projects and/or sections of this Invitation. Lots may be awarded on a unit basis for each individually numbered item to the lowest responsible bidder; or when a group of items have been consolidated for uniformity, it may be necessary to bid all inclusive items to receive consideration.
SECTION D: BID RESPONSE FORM FOR BID #T-2925

Please return with your Sealed Bid Response:

- Section D: Bid Response Form
- Section E.1: Signature of Firm’s Authorized Representative
- Section E.2: Debarment/Suspension Status & Non-Collusion Affidavit Form
- OFFERORS WISHING TO RECEIVE THE RESIDENTIAL PREFERENCE AS APPLICABLE PER NMSA 13-1-21 & 13-1-22 MUST SUBMIT A VALID RESIDENTIAL PREFERENCE CERTIFICATE WITH THEIR SEALED RESPONSE.
- OFFERORS WISHING TO RECEIVE THE VETERAN RESIDENT BUSINESS PREFERENCE AS APPLICABLE PER NMSA 13-1-21 & 13-1-22 MUST SUBMIT A VALID RESIDENTIAL PREFERENCE CERTIFICATE WITH THEIR SEALED RESPONSE.

Company Legal Name: ______________________________________

Residential Preference Number:_______________________________ (Applies to BIDS over $60,000.00 only - must submit valid certificate in order to receive preference)

New Mexico Resident Veteran’s Preference Number:_______________________________ (Applies to BIDS over $60,000.00 only - must submit valid certificate in order to receive preference)

Bid as Follows:

CNM reserves the right to make multiple awards on this bid. CNM reserves the right to award by lot, individual item or consolidate all or groups of bid items, whatever is in the best interest of CNM. Any services in addition to standard manufacturer’s warranty shall be provided with bid submission.

BRAND NAME or EQUAL PERFORMANCE

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Qty</th>
<th>Unit</th>
<th>Part Number and Description</th>
<th>Unit Price</th>
<th>Ext. Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOT # 1 LIGHTING CONTROL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>1</td>
<td>Ea.</td>
<td>P/N ETC Ion 1000 Console Ion 1000 (1024 Outputs) or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: ______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other: ____________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered: ____________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered: ____________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>1</td>
<td>Ea.</td>
<td>P/N ETC Fader Wing 2x10 FADW 2x10 or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: ______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other: ____________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered: ____________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item No.</td>
<td>Qty</td>
<td>Unit</td>
<td>Part Number and Description</td>
<td>Unit Price</td>
<td>Ext. Price</td>
</tr>
<tr>
<td>---------</td>
<td>-----</td>
<td>------</td>
<td>---------------------------------------------------------------------------------------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td>3.</td>
<td>2</td>
<td>Ea.</td>
<td><strong>P/N ELO 19” Touchscreen DK Gray 1928L (Dark Gray) (Verify Compatibility) or Equal Performance.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: ______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐ Check “Yes” or “No” or state Other: ____________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered: _______________________________________________________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered: _______________________________________________________________________</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 4.      | 1   | Ea.  | **P/N LITTLIGHT 18” LED Gooseneck Task light for Ion Console 18XR-LED or Equal Performance.** |            |            |
|         |     |      | State Estimated Delivery Date: ______ Days ARO.                                              |            |            |
|         |     |      | Manufacturer’s Standard Warranty: Yes ☐ No ☐ Check “Yes” or “No” or state Other: ____________ |            |            |
|         |     |      | State brand offered: _______________________________________________________________________ |            |            |
|         |     |      | State model offered: _______________________________________________________________________ |            |            |

SUB-TOTAL LOT # 1 (Items 1 -4):

|         |     |      |                                                                                           |            |            |

LOT # 2 LIGHTING INSTRUMENTS

| 5.      | 18  | Ea.  | **P/N STRAND PLPROFILE1 LED PLZS1-2444-03 (GR) WITH PL INTERCONNECT BOX, C-CLAMP & SAFETY CABLE INSTALLED or Equal Performance.** |            |            |
|         |     |      | State Estimated Delivery Date: ______ Days ARO.                                              |            |            |
|         |     |      | Manufacturer’s Standard Warranty: Yes ☐ No ☐ Check “Yes” or “No” or state Other: ____________ |            |            |
|         |     |      | State brand offered: _______________________________________________________________________ |            |            |
|         |     |      | State model offered: _______________________________________________________________________ |            |            |

<p>| 6.      | 18  | Ea.  | <strong>P/N STRAND PLFRESNEL1 LED PLFR1-03 (GR) WITH PL INTERCONNECT BOX, C-CLAMP &amp; SAFETY CABLE INSTALLED or Equal Performance.</strong> |            |            |
|         |     |      | State Estimated Delivery Date: ______ Days ARO.                                              |            |            |
|         |     |      | Manufacturer’s Standard Warranty: Yes ☐ No ☐ Check “Yes” or “No” or state Other: ____________ |            |            |
|         |     |      | State brand offered: _______________________________________________________________________ |            |            |
|         |     |      | State model offered: _______________________________________________________________________ |            |            |</p>
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Qty</th>
<th>Unit</th>
<th>Part Number and Description</th>
<th>Unit Price</th>
<th>Ext. Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.</td>
<td>18</td>
<td>Ea.</td>
<td>P/N STRAND ACCLAIM FRENSNEL BARN DOOR 20BDMF or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other: ______________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered: __________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered: __________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>6</td>
<td>Ea.</td>
<td>P/N STRAND PLCYC LED PLCYC1-03 (GR) WITH C-CLAMP &amp; SAFETY CABLE INSTALLED or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other: ______________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered: __________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered: __________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>6</td>
<td>Ea.</td>
<td>P/N LIGHT SOURCE LED DIMMING 115 WATT FRENSNEL WORK LIGHT WITH C-CLAMP &amp; SAFETY CABLE INSTALLED WL 1 B 08030K PX or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other: ______________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered: __________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered: __________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>SUB-TOTAL LOT # 2 (Items 5-9):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>10</td>
<td>Ea.</td>
<td>P/N LEX OMX CABLE SHIELDED 5-PIN (5’) DMX-5P-5 or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other: ______________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered: __________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>LOT # 3 DATA/POWER CABLE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item No.</td>
<td>Qty</td>
<td>Unit</td>
<td>Part Number and Description</td>
<td>Unit Price</td>
<td>Ext. Price</td>
</tr>
<tr>
<td>---------</td>
<td>-----</td>
<td>------</td>
<td>-----------------------------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
</tbody>
</table>
| 11.     | 22  | Ea.  | **P/N LEX OMX CABLE SHIELDED 5-PIN 10') DMX-5P-10 or Equal Performance.**  
State Estimated Delivery Date: ______ Days ARO.  
Manufacturer’s Standard Warranty: Yes ☐ No ☐  
Check “Yes” or “No” or state Other: ________________  
State brand offered: ________________  
State model offered: ________________ |
| 12.     | 20  | Ea.  | **P/N LEX OMX CABLE SHIELDED 5-PIN (15') DMX-5P-15 or Equal Performance.**  
State Estimated Delivery Date: ______ Days ARO.  
Manufacturer’s Standard Warranty: Yes ☐ No ☐  
Check “Yes” or “No” or state Other: ________________  
State brand offered: ________________  
State model offered: ________________ |
| 13.     | 8   | Ea.  | **P/N LEX OMX CABLE SHIELDED 5-PIN (25') DMX-5P-25 or Equal Performance.**  
State Estimated Delivery Date: ______ Days ARO.  
Manufacturer’s Standard Warranty: Yes ☐ No ☐  
Check “Yes” or “No” or state Other: ________________  
State brand offered: ________________  
State model offered: ________________ |
| 14.     | 2   | Ea.  | **P/N LEX OMX CABLE SHIELDED 5-PIN (50') DMX-5P-50 or Equal Performance.**  
State Estimated Delivery Date: ______ Days ARO.  
Manufacturer’s Standard Warranty: Yes ☐ No ☐  
Check “Yes” or “No” or state Other: ________________  
State brand offered: ________________  
State model offered: ________________ |
| 15.     | 2   | Ea.  | **P/N LEX OMX TERMINATOR 5-PIN DMX-5P-TERM or Equal Performance.**  
State Estimated Delivery Date: ______ Days ARO.  
Manufacturer’s Standard Warranty: Yes ☐ No ☐  
Check “Yes” or “No” or state Other: ________________  
State brand offered: ________________  
State model offered: ________________ |
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Qty</th>
<th>Unit</th>
<th>Part Number and Description</th>
<th>Unit Price</th>
<th>Ext. Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.</td>
<td>10</td>
<td>Ea.</td>
<td><strong>P/N LEX 15 Amp, EDISON Extension with Extra Hard Usage cord (10') PE7000-10-515 or Equal Performance.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: ______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>12</td>
<td>Ea.</td>
<td><strong>P/N LEX 15 Amp, EDISON Extension with Extra Hard Usage cord (15') PE7000-15-515 or Equal Performance.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: ______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.</td>
<td>5</td>
<td>Ea.</td>
<td><strong>P/N LEX 15 Amp, EDISON Extension with Extra Hard Usage cord (25') PE7000-25-515 or Equal Performance.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: ______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>2</td>
<td>Ea.</td>
<td><strong>P/N LEX 15 Amp, EDISON Extension with Extra Hard Usage cord (50') PE7000-50-515 or Equal Performance.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: ______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check “Yes” or “No” or state Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item No.</td>
<td>Qty</td>
<td>Unit</td>
<td>Part Number and Description</td>
<td>Unit Price</td>
<td>Ext. Price</td>
</tr>
<tr>
<td>---------</td>
<td>-----</td>
<td>------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td>20</td>
<td>10</td>
<td>Ea.</td>
<td>P/N LEX 20 Amp, 12/3 SJ E PowerCON extension (5') PE700J-5-PCN or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes □ No □ Check “Yes” or “No” or state Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>20</td>
<td>Ea.</td>
<td>P/N LEX 20 Amp, 12/3 SJ E PowerCON extension (10') PE700J-10-PCN or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes □ No □ Check “Yes” or “No” or state Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes □ No □ Check “Yes” or “No” or state Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes □ No □ Check “Yes” or “No” or state Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>2</td>
<td>Ea.</td>
<td>P/N NS I/LEVITON 4 CHANNEL PORTABLE OMX DIMMER PACK D4DMX004MD5 or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _______ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes □ No □ Check “Yes” or “No” or state Other:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item No.</td>
<td>Qty</td>
<td>Unit</td>
<td>Part Number and Description</td>
<td>Unit Price</td>
<td>Ext. Price</td>
</tr>
<tr>
<td>---------</td>
<td>-----</td>
<td>------</td>
<td>-----------------------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SUB-TOTAL LOT # 3 (Items 10 - 24):</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LOT # 4 ACCESSORIES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>1</td>
<td>Ea.</td>
<td>P/N MISC #4 BLACK TIE LINE (600' ROLL) #4 BLACK TIE LINE (600' ROLL) or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _____ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐ Check “Yes” or “No” or state Other: ______________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26.</td>
<td>10</td>
<td>Ea.</td>
<td>P/N CITY THEATRICAL M SIZE SANDWICH PATTERN HOLDER FOR PL 1 PROFILE M SIZE or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _____ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐ Check “Yes” or “No” or state Other: ______________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27.</td>
<td>20</td>
<td>Ea.</td>
<td>P/N ROSCO M SIZE STANDARD STEEL GOBO TO BE SPECIFIED BY CNM or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _____ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐ Check “Yes” or “No” or state Other: ______________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28.</td>
<td>2</td>
<td>Ea.</td>
<td>P/N CITY THEATRICAL DROP IN IRIS FOR PL 1PROFILE N/A or Equal Performance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State Estimated Delivery Date: _____ Days ARO.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manufacturer’s Standard Warranty: Yes ☐ No ☐ Check “Yes” or “No” or state Other: ______________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State brand offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>State model offered:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item No.</td>
<td>Qty</td>
<td>Unit</td>
<td>Part Number and Description</td>
<td>Unit Price</td>
<td>Ext. Price</td>
</tr>
<tr>
<td>---------</td>
<td>-----</td>
<td>------</td>
<td>-------------------------------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SUB-TOTAL LOT #4 (Items 25 -28 ):</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GRAND TOTAL, FOB Destination (LOTS 1 – 4, Items 1 – 28)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please return with your Sealed Bid Response:

- Section D: Bid response Form
- Section E.1: Signature of Firm’s Authorized Representative
- Section E.2: Debarment/Suspension Status & Non–Collusion Affidavit Form
- Offerors wishing to receive the New Mexico resident business/contractor preference as applicable per NMSA 13-1-21 & 13-1-22 must submit a valid New Mexico resident business/contractor preference certificate with their sealed response.
- Offerors wishing to receive the New Mexico resident veteran’s preference as applicable per NMSA 13-1-21 & 13-1-22 must submit a valid New Mexico resident veteran’s business preference certificate and completed exhibit “C” with their sealed response.
SECTION E.1: SIGNATURE OF FIRM'S AUTHORIZED REPRESENTATIVE

By signing below, contractor acknowledges that it is a competent firm capable of providing the items and/or services requested, is properly licensed for providing the items or services specified, has read this Request for Proposals, understands it, and agrees to be bound by its terms and conditions. Contractor hereby agrees to furnish items and/or services, at the prices quoted, pursuant to all requirements and specifications contained in this document, upon receipt of an authorized purchase order from the purchasing department, and further agree that the language of this document shall govern in the event of a conflict with its bid. The undersigned, being duly authorized to sign bidding documents and act on behalf of the contractor in an official capacity, certifies that the items and/or services offered on this Request for Proposals meets or exceeds all specifications, terms and conditions as described in this Request for Proposals without exceptions. I understand that items and/or services not meeting all specifications, terms and conditions will be rejected and all costs shall be borne by the contractor.

Please fill in all spaces below:

Legal Company Name__________________________________________________________

Address______________________________________________________________________

City, State, Zip______________________________________________________________FAX Number________________________________________

Phone Number______________________________________________________________

Contact Person for Clarification of Bid Response_______________________________

Residential Preference Number (Applies to BIDS over $60,000.00 only - must submit valid certificate in order to receive preference):

____________________________________________________________________________

Veteran Resident Business Preference Number: (Applies to BIDS over $60,000.00 only - must submit valid certificate in order to receive preference):

____________________________________________________________________________

NM Tax ID____________________________________________________Federal Tax ID________________________________________

Applicable NM License Numbers______________________________________________

ACKNOWLEDGMENT OF AMENDMENT/ADDENDUM (Specify Number(s) and Date(s) in the spaces provided below):

# date # date # date # date # date # date # date # date # date # date # date

Signature of Member Authorized to Sign for Firm________________________________

Printed/Typed Name and Title of Individual Signing________________________________

ALL NEW MEXICO LICENSE NUMBERS LISTED HEREIN OR PURPORTED BY THE VENDOR MUST BE ISSUED IN THE OFFERING FIRM'S LEGAL COMPANY NAME. LICENSE NUMBERS LISTED UNDER A NAME OTHER THAN THE LEGAL COMPANY NAME MAY RENDER THE OFFER AS BEING NON-RESPONSIVE. NON-RESPONSIVE OFFERS WILL NOT BE CONSIDERED FOR AWARD.

OFFERORS WISHING TO RECEIVE THE NEW MEXICO RESIDENT BUSINESS/CONTRACTOR PREFERENCE AS APPLICABLE PER NMSA 13-1-21 & 13-1-122 MUST SUBMIT A VALID NEW MEXICO BUSINESS/CONTRACTOR PREFERENCE CERTIFICATE WITH THEIR SEALED RESPONSE.

OFFERORS WISHING TO RECEIVE THE NEW MEXICO RESIDENT VETERANS BUSINESS PREFERENCE AS APPLICABLE PER NMSA 13-1-21 & 13-1-22 MUST SUBMIT A VALID RESIDENTIAL PREFERENCE CERTIFICATE WITH THEIR SEALED RESPONSE.
SECTION E.2: DEBARMENT/SUSPENSION STATUS & NON-COLLUSION AFFIDAVIT FORM

DEBARMENT/SUSPENSION STATUS
1. The vendor/contractor certifies that it is not suspended, debarred or ineligible from entering into contracts with the Executive Branch of the Federal Government, or in receipt of a notice of proposed debarment from any State agency or local public body.
2. The vendor/contractor agrees to provide immediate notice to CNM's Purchasing Department in the event of being suspended, debarred or declared ineligible by any State or Federal department or agency, or upon receipt of a notice of proposed debarment that is received after the submission of this bid but prior to the award of the purchase order/contract.

NON-COLLUSION AFFIDAVIT
The undersigned, duly authorized to represent the persons, firm and/or corporation joining and participating in the submission of the foregoing bid (such persons, firm and/or corporation hereinafter being referred to as the vendor/contractor), being duly sworn, on his/her oath, states that to the best of his/her belief and knowledge no person, firm, or corporation, nor any person duly representing the same joining and participating in the submission or the foregoing bid/proposal, has directly or indirectly entered into any agreement or arrangement with any other vendor/contractors, or with any employee of CNM, or any person, firm or corporation under contract with CNM whereby the contractor, in order to induce the acceptance of the foregoing bid by CNM has paid or is to pay any other vendor/contractor or to the aforementioned persons anything of value whatsoever, and that the vendor/contractor has not directly or indirectly entered into any agreement or arrangement with any other vendor/contractor which tends to or does lessen or destroy free competition in the letting of the contract sought for by the foregoing bid.

CERTIFICATION
The undersigned hereby certifies that he/she has read the above Non-Collusion Affidavit and Debarment/Suspension Disclosure Statement and that he/she understands and will comply with these requirements. The undersigned further certifies that he/she have the authority to certify compliance for the vendor/contractor named below.

Signature ___________________________ Title ___________________________
Printed/Typed Name ___________________________ Date ___________________________
Legal Company Name ___________________________
Address ___________________________
City/State/Zip ___________________________
EXHIBIT A: NEW MEXICO RESIDENT VETERANS PREFERENCE CERTIFICATION

__________________________________________ (NAME OF CONTRACTOR) hereby certifies the following in regard to application of the resident veterans' preference to this procurement:

Please check one box only

☐ I declare under penalty of perjury that my business prior year revenue starting January 1 ending December 31 is less than $1M allowing me the 10% preference discount on this solicitation. I understand that knowingly giving false or misleading information about this fact constitutes a crime.

☐ I declare under penalty of perjury that my business prior year revenue starting January 1 ending December 31 is more than $1M but less than $5M allowing me the 8% preference discount on this bid or proposal. I understand that knowingly giving false or misleading information about this fact constitutes a crime.

☐ I declare under penalty of perjury that my business prior year revenue starting January 1 ending December 31 is more than $5M allowing me the 7% preference discount on this bid or proposal. I understand that knowingly giving false or misleading information about this fact constitutes a crime.

"I agree to submit a report, or reports, to the State Purchasing Division of the General Services Department declaring under penalty of perjury that during the last calendar year starting January 1 and ending on December 31, the following to be true and accurate:

"In conjunction with this procurement and the requirements of this business’ application for a Resident Veteran Business Preference/Resident Veteran Contractor Preference under Sections 13-1-21 or 13-1-22 NMSA 1978, when awarded a contract which was on the basis of having such veterans preference, I agree to report to the State Purchasing Division of the General Services Department the awarded amount involved. I will indicate in the report the award amount as a purchase from a public body or as a public works contract from a public body as the case may be.

"I understand that knowingly giving false or misleading information on this report constitutes a crime."

I declare under penalty of perjury that this statement is true to the best of my knowledge. I understand that giving false or misleading statements about material fact regarding this matter constitutes a crime.

____________________________________________________________________________

(Signature of Business Representative) * (Date)

*Must be an authorized signatory for the Business.

The representations made in checking the boxes constitutes a material representation by the business that is subject to protest and may result in denial of an award or unaward of the procurement involved if the statements are proven to be incorrect.

NOTE: This form must be completed, signed, and included with the Offeror’s sealed response ONLY if the Offeror is also submitting with their sealed response a valid State of New Mexico Resident Veterans Certificate as issued by the New Mexico Taxation and Revenue Department. Offerors without a valid State of New Mexico Resident Veterans Certificate are not required to provide this form, and may not have New Mexico Resident Veterans Business Preference extended to them.
1.01 LIGHTING SYSTEM AND ACCESSORIES

A. General

1. The lighting control desk shall be a microprocessor-based system specifically designed to provide complete control of stage, studio, and entertainment lighting systems. The device shall be the Ion as manufactured by Electronic Theatre Controls, Inc., or equal.

2. The system shall provide control of 1024 outputs, 1536 outputs, 2048 outputs, 2560 outputs or 3072 outputs on a maximum of 10,000 control channels, patched across any number up to 99,999. Output shall be distributed over a 10/100MB Ethernet network using Net3/ACN, ETCNet 2, Avab and/or ArtNet protocols. The user shall be able to control the application of protocols at an individual address level.

3. The system shall support full bi-directional RDM communication with compatible devices via Net3 DMX/RDM Gateways. RDM communication shall adhere to ANSII standard E1.20-2006 Entertainment Technology – RDM – Remote Device Management Over DMX512 Networks. Supported RDM features shall include:
   a. Discovery and identification of RDM capable devices
   b. Setting of start addresses, operating modes and additional settings as exposed by connected devices and controllable via RDM
   c. Viewing of Sensor data as provided by connected devices.
   d. Error reported as provided by connected devices.

4. A maximum of 10,000 cues, 999 cue lists, 1000 groups, 1000 presets, 4 x 1000 palettes (Intensity, Focus, Color and Beam), 1000 effects, 1000 macros and 100 curves may be contained in non-volatile electronic memory and stored to an onboard hard drive or to any USB storage device.

5. Recorded cue lists may be played back simultaneously on a maximum of 200 faders. Channels shall respond to cue information by last instruction with discrete rate control provided for all cues. The desk may be placed in Tracking or Cue Only mode by the user as a system default and overridden on individual record actions as required. HTP/LTP intensity flags, assert, proportional, intensity master or manual master fade control and independent status may be placed on each cue list. It shall also be possible for a cue list to contribute to playback background states or to withhold such contributions.
6. A Master Playback fader pair and dedicated Grand Master/Blackout shall be provided.

7. Up to six USB fader wings may be connected to the desk, for a maximum of 300 submasters and/or 200 playback faders. USB fader wings may be rigidly connected to the main desk to provide a "single connected unit" with no external cables required. The wings also may be connected via USB cables and used "on the side." Virtual fader control is also provided.

8. A high-resolution level wheel shall be provided to control intensity for selected channels and scrolling within selected displays. Four page-able high-resolution encoders shall be provided for control of non-intensity parameters. Non-intensity encoders may be operated in coarse or fine mode, with the amount of movement per revolution of the encoders in coarse mode definable by the user. Non-intensity parameters shall be controllable via the encoders or keypad controls, without need of an external pointing device. A high-resolution rate wheel shall also be provided.

9. Rotary encoders for non-intensity parameters shall be labeled by means of an integral LCD display mounted below the encoders on the main desk. The display shall show the currently loaded functions of the encoders based on the current selections. Systems using encoders with no LCD labeling shall not be acceptable.

10. Control and programming features for automated fixtures shall also include: a standard library of fixture profiles, the ability to copy and edit existing profiles and create new profiles, patch displays including channel and output addressing, 16-bit fade resolution, color characterization allowing color mixing and storing in Hue and Saturation or native device values.

11. System information, including playback status, live output and blind values for all record targets shall be displayed on a maximum of two external high resolution DVI monitors, or one SVGA monitor, which may also be touch-screen(s). Only one display shall be required for operation.

12. A context sensitive on-line Help feature shall explain and provide an example of the operation of each feature of the system.

13. A fully integrated Virtual Media Server feature shall allow the user to map images and animations to a rig array. 40 such maps may be created, each with 12 layers. Systems that rely on external hardware or software for this functionality shall not be acceptable.
14. User-definable, interactive displays may be created. These displays, which can be used in live and blind operating modes, allow graphical layout of channels, desk buttons and programming tools. Standard symbols are provided, and the user may import his own symbols or graphics. Each symbol may be individually defined with data feedback characteristics. Non-interactive status information, such as a mirror of other user’s command lines, may also be included in the display. A graphical browser is provided for fast selection of these views. Multiple zoom factors and placements may be stored and recalled for each display.

15. An optional, full-functioning, detachable alphanumeric keyboard shall be supported. The keyboard shall allow labeling of channels, cues, presets, groups, palettes, effects, macros, curves and the show. An integral electronic keyboard shall be provided.

16. A row of softkeys shall be provided, which change function based on the selection and context of the desk. These softkeys shall be labeled via an adjacent LCD display that shows their current functions at all times. Systems using softkeys with no LCD display shall not be acceptable.

17. Software upgrades shall be made by the user via a USB port; changing internal components shall not be required. It shall be possible to install software updates in all consoles, processor units and remotes from one device over the network.

18. The operating software shall be loaded into program execution memory from the internal hard drive when the console is powered. In the event of an uncontrolled shutdown, the device shall return to its last output state when power is restored.

19. Dimmer monitoring and configuration features shall be provided (in conjunction with ETC’s Sensor+, Sensor 3 or FDX dimming systems) to allow indication of dimming system status, dimmer load monitoring and show specific configurations.

20. Show data may be created and modified on a personal computer, using either Windows XP or Windows 7 operating systems, with a free offline editing application. The offline editor may also run natively on Intel-based Macintosh platforms using OS X. The program shall also allow output to visualization software supporting the same protocols as the lighting system.
21. A PC using Windows XP or Windows 7/8 or an Intel-based Macintosh computer using OS X running a client software application shall be able to connect to a control system via the network and view or modify current show data in an independent display environment, using an Eos Family Client Dongle. When connected without the dongle, the computer shall operate in Mirror Mode, with the device to be mirrored selectable by the user. Systems that do not provide client software that may run natively on the Apple platform in this environment shall not be acceptable.

22. Synchronized backup shall be provided via another full desk on the network or by use of a remote processor unit. The backup unit (either full desk or rack mounted Remote Processor Unit (RPU) shall maintain synchronized playback with the master and shall take over control of the lighting system upon loss of communication with the master. Use of two RPUs to service and backup system output is also supported. Systems that do not offer this kind of instant backup from multiple sources shall not be acceptable.

23. A maximum of four users may access and interact with show data simultaneously. Each user shall have an individual workspace and channel partitioning shall be supported. User identification may be assigned to more than one control device, allowing users to work in tandem, or allowing a designer/ALD to mirror the current display format, mode and command line of the associated programmer. Partitioned control allows discrete control of channel/parameter groupings by user. Partitioned control may be easily enabled and disabled with no need to merge show data from multiple users.

24. Mirror mode shall allow the desk displays and operating modes to be mimicked on another connected device. Alternatively, the desk may mirror another device.

25. The system shall allow remote control from external devices as follows: Client software running on a PC connected to the network, a remote video interface with keyboard, a purpose-built wireless remote focus unit (Radio Focus Remote). Universal fader wings may be attached to any of these devices for local fader control. Systems without these remote control devices shall not be acceptable.
26. The system shall support a Telephone remote control that allows basic functions to be controlled from a standard wireless phone producing touch-tone signals. This allows the use of a standard telephone for a low cost remote control. Systems that do not allow this function shall not be acceptable.

27. Show data may be created and modified on a personal computer, using either Windows XP or Windows 7/8 operating systems, with a free offline editing application. The offline editor may also run natively on Intel-based Macintosh platforms using OS X. The program shall also allow output to visualization software supporting the same protocols as the lighting system.

28. The system shall support up to 32 individual Time Code Event lists.

B. Controls and Playback

1. Manual Control and Programming Section
   a. The programming keyboard shall be grouped by function. Major groupings shall be record target functions, numeric keys, level assignment functions, display navigation functions and controls.
   b. Non-intensity parameters may be set numerically or via the encoders. This control shall be fully interactive. In either case the current parameter value shall be displayed on the desk monitor and simultaneously on the integral LCD display. Systems using only a local LCD or only a video monitor shall not be acceptable.
   c. Only those parameters available for control in the active lighting system shall be displayed for control.
   d. Lamp controls provide direct access to luminaire functions such as striking and dousing arc lamps and calibrating entire fixtures or individual mechanisms of fixtures, as provided by the luminaire manufacturer. User access to these features is normalized across all manufacturers for ease of use. Use of a “control channel” for accessing these functions shall not be required and systems requiring use of a control channel shall not be acceptable. Lamp control commands maybe staged, and channels which have been sent lamp on commands so indicated in live.
   e. Fan functions shall be provided both via command line operation and through encoder controls.
f. Highlight shall be supported, with user definable highlight values. Lowlight conditions may be defined for selected, but not specified channels. Rem Dim command, at specific levels by channel, may be optionally and automatically called with the highlight command.

g. Fixtures with CMY or RBG color mixing may be set with direct CMY or RBG controls, as well as the Hue and Saturation encoders and/or color picker. Color may also be set directly to a gel match, via a graphic selection tool or from the command line.

h. The Virtual Media Server function shall allow the user to create layouts of devices, identified as pixel maps. Media content (images, movies, text and procedurally generated effects) may then be applied, manipulated and stored. Stock content is provided and the user may import custom imagery and animations.

i. Macros may be set to run as default. Default macros called manually shall post to the command line, but executed via cue lists shall run in the background. The user may override this behavior by defining the macro to always execute in the foreground or the background, regardless of the recall method. Startup, Shutdown and Disconnect macros may also be defined.

2. Playback Section

a. The master fader shall consist of a 60mm Master Fader pair with associated Load, Go and Stop/Back buttons. Additional playback faders may be configured via the virtual fader module or on the Universal Fader Wings.

b. It shall be possible to instantaneously halt an active cue, back to the previous cue, manually override the intensity fade or manually override the entire fade.

c. It shall be possible for a cue list to contribute to the background state or for the contents of each cue list to be withheld from such.

d. The playback faders shall have the following associate controls:
   1) Freeze, which halts the output of the fader
   2) Stop Effect, which stops the action of an effect.
   3) Filter, to assign filter states to a fader
   4) Go to Cue 0, to reset a cue list.

3. Fader Wings (Optional)
a. Submaster and fader support shall be provided via optional fader wings. These wings are available in 1x20, 2x10 and 2x20 configurations. Up to six of these wings may be connected to the desk via internal or external USB. Via paging, access is provided to all 300 faders, regardless of the number of physical wings attached.

b. The 2x10 and 2x20 fader wings shall include a full length LCD for labeling and identification functions. Each fader shall have two associated hard buttons for various operations. Systems without a local display or fewer than two buttons per fader shall not be acceptable.

c. Up to 300 proportional, fully overlapping additive, effect or inhibitive submasters may be defined. Submasters shall have colored LEDs to indicate submaster status. Each submaster may have fade up, dwell and down fade times. Each has a bump and assert/channel select button. Submasters may be set to independent, exclusive, shielded and proportional/intensity or effect master control.

d. The submaster blind buffer shall be linked directly to live playback allowing live editing of live submaster content via the command line.

e. It shall be possible to set submaster values directly from the command line.

f. Up to 200 cue lists may be active concurrently.

4. Grand Master

a. A dedicated grand master and blackout button are provided.

b. The grand master shall proportionally fade intensity values to zero. Blackout shall send all intensity outputs to zero. Non-intensity outputs shall not be affected. No additional configuration shall be required to withhold non-intensity values from Grand Master and Blackout control.

C. Display Controls

1. Format shall change the view of selected displays.

2. It shall be possible for the user to choose which parameter categories or parameters (s)he wishes to display.

3. Flexichannel shall change which channels are viewed in selected displays, as follows:

a. All channels
b. Patched channels
c. Show channels
d. Active/Moved channels
e. Selected channels
f. Manual Channels
g. View channels (user identified list)
h. Channels with discrete timing

4. Expand shall extend the selected view sequentially across connected displays, vertically or horizontally.

5. [Time] depressed shall display discrete timing data. [Data] depressed shall display absolute values of referenced data.

6. User definable magic sheets shall provide alternative display of and access to channels and record targets. Multiple magic sheets may be created.

7. Playback status displays are provided with a variety of different formats. Indications are provided per cue for live moves (lights fading from zero and also moving non-intensity parameters) and dark moves (inactive lights which have stored non-intensity parameter moves).

D. Operating Modes

1. Live Mode
   a. Channel lists may be constructed using the +, - and Thru keys as well as the direct selects. Channel selection and deselection is fully interactive, regardless of the method used.
   b. Levels may be set with the keypad, level wheel and non-intensity encoders. “Selected” channels shall be those last addressed and under keypad control.
   c. Sneak shall be used to restore specified channels to background states, default values, or to send them to specified values, in user specified or default times.
   d. Selected channels may be set at a level or held to current values while all other channels are set to zero using Rem Dim. Toggling Rem Dim shall restore all unselected channels to original levels. The Rem Dim level shall be user definable via the command line or with a default setup value.
e. Channels may be recorded into groups for fast recall of commonly used channels. 1000 groups shall be available. Groups shall store selection order. The Offset function supports rapid creation of ordered groups, including reverse and random order.

f. Parameter settings may be stored to Intensity, Focus, Color and Beam Palettes and to Presets. All referenced data may be stored to whole numbers or to up to 99 decimal places between each whole number. It shall be possible to store 1000 presets and 1000 of each palette type.

g. Any collection of channel data, as determined by the use of “Record”, “Record Only, selective store commands and/or parameter filters may be stored to palettes (as appropriate to the type) and presets.

h. The following conditions may be placed on a channel or channel parameter to be included with a cue record action.
   1) Discrete fade time and/or delay
   2) Block flag
   3) Assert flag
   4) IFCB Filters, which may be set at a parameter level.

i. 999 cue lists may be stored. Cues may be recorded in any order. Up to 99 decimal cues may be inserted between any two whole number cues. Each cue may contain a maximum of twenty parts. Parameters may be automatically assigned to specific parts or assigned when the part is created.

j. It shall be possible to record cues and cue parts with the following information:
   1) Any collection of channel data, as determined by the use of “Record”, “Record Only” or selective store commands, combined with parameter filters.
   2) Cue Level timing and delays for Intensity Up, Intensity Down, Focus, Color and Beam.
   3) Follow or hang time
   4) Link instruction
   5) Loop value
   6) Block, Assert, Allfade, Preheat and/or Mark Flag
   7) Curve
   8) Label and note
   9) Execute list to trigger other activity
k. Non-intensity channel parameters may be marked (preset), in two ways. Automark presets any parameters transitions in the cue just prior to intensity becoming active. Automark may be disabled on a cue or cue part basis, enabling a “live” move. Alternatively, non-intensity parameters may be marked to a specific cue with a single command instruction. It shall not be necessary to store these parameters directly into the cue in which the movement is to occur.

l. Any channel parameter may be stored with an effect instruction. These effects may contain relative offsets from current value, or absolute instructions. Effects may be progressive action or on/off states. Entry and exit behaviors shall modify the channel parameters activity when beginning and ending the effect.

m. Update may be used to selectively add modified parameter data quickly to that parameter’s current source. It shall be possible to update inactive record targets. It shall also be possible to update back to the current source of the move instruction without specifying that cue via Trace. A context sensitive display provides detailed information regarding the results of the update command.

n. Recall From quickly pulls specified data from record targets or other channels into the current view. Recall from on an HTP basis shall be provided.

o. Copy To quickly copies selected data to specified channels or other record targets.

p. Address and channel check functions shall be provided.

q. Channel parameters may be “parked” at levels. Output addresses may also be parted directly. Parked levels shall not be added to any live record operations, nor may they be changed until the parked element is “unparked”. Address Park shall also be provided.

r. About shall provide detailed status of selected channels or specified record targets. This shall include current source, current value, discrete timing, parked value, marked to and for indications. Background levels and current DMX output are also displayed. Channel usage indicates submaster and cue information and also provides a "dark moves" report on a per channel basis.

s. 1000 snapshots may be stored which instantly recall specified front panel and display configurations.

t. Live data may be displayed in a summary view, detailed table orientation or a user-defined magic sheet.
u. Undo shall be used to sequentially step back through manual operations, record, update and delete actions. Redo functions shall be provided. Multiple undo commands may be executed at once.

v. Home shall set selected channels non-intensity parameters to their default values. User definable home, on a per-channel/per-parameter basis shall be provided.

w. Move shall allow all show data to be moved from one record target to another.

x. Query shall allow selection of channels by their current or possible state. Keywords and fixture types shall allow quick access to fixtures.

2. Blind

a. The Blind display allows viewing and modification of all record targets without affecting stage levels.

b. Record target data may be displayed in a summary view, a detailed table orientation or a spreadsheet view, which allows quick data comparisons, move and replace with functions.

c. Changes made in blind displays shall be automatically stored.

d. Blind editing shall be possible for all record targets.

e. Selection of what parameter data to view for blind editing shall be user configurable.

3. Patch Display

a. Patch shall be used to display and modify the system control channels with their associated library data.

b. Each channel may be provided with a proportional patch level, preheat, curve, label, swap and invert functions.

c. Offset functions in patch shall allow selection of channel ranges and shall allow the user to establish a “custom” footprint for any device output.

d. A full library of profiles is provided, with the ability for the user to define “favorites” for fast selection.

e. Custom color wheels, color scrolls and gobo wheels shall be defined in patch. These devices shall be created with a simple table and graphical user interface supported by images of major manufacturers.

f. Copy to and Move functions shall be supported in patch.
g. RDM discovery and device monitoring shall be supported.

4. Setup/Browser
   a. Setup shall access system, show and desk configurations.
   b. The browser shall access show data storage, import, export, print to .pdf and clear functions, as well as show data utilities.
   c. It shall be possible to partially merge show files. Users shall be able to select as much or as little of the show file as required, with renumber tools.
   d. It shall be possible to import ASCII and Lightwright data files. It shall be possible to export as ASCII or .csv.

E. Dimmer Monitoring and Configuration

1. The lighting control system shall provide communication with an ETC Sensor+, Sensor3 or FDX dimming system for remote monitoring and configuration of show specific functions from within the software application.

2. Circuit level configuration and monitoring functions shall include but not be limited to:
   a. Control mode (dimmable, switched, latch-lock, always on, off or fluorescent).
   b. Curves
   c. Control threshold
   d. Min and Max Scale Voltage
   e. Preheat
   f. Scale load

3. Rack Status messages shall include but not be limited to:
   a. State of UL924 panic closure
   b. DMX port error/failure
   c. Network error/failure
   d. A, B, C Phase below 90 or above 139 volts and headroom warning
   e. Ambient temperatures out of range
4. Circuit status shall include but not be limited to:
   a. Module type and location
   b. Output level
   c. Control Source
   d. Overtemp

5. Advanced circuit feedback shall include but not be limited to:
   a. Load higher or lower than recorded value
   b. DC detected on output
   c. SCR failed on/off
   d. Breaker trip
   e. Module has been removed
   f. Load failure
   g. Shutdown due to Overtemp

F. Training Options

1. Training packages shall be available customizable to the individual venue preferences and needs. The level of training (beginner, intermediate or advanced) may be selected and training may be defined as an element of system commissioning or deferred to a later time.

G. Interface Options

1. The unit shall support a variety of local interfaces.
   a. AC input.
   b. USB (five ports for connecting devices such as an alphanumeric keyboard, mouse, touch screens, USB Flash drive, fader wings, etc.) The desk shall provide four ports on the rear of the unit and one on the control service itself.
   c. Ethernet (one port) 802.3af compliant
   d. Two DVI video output connectors, supporting a maximum of two DVI monitors at 1280x1024 resolution minimum.
   e. One VGA output connector.
   f. Up to six fader wings may be attached to the main console via internal or external USB connections. Systems that do not allow the addition of fader wings shall not be acceptable.
   g. Two DMX512-A/RDM Ports
h. Contact Closure Trigger via D-Sub Connector
i. Phone Remote
j. MIDI In/Out (MIDI Timecode, MIDI Show Control)

H. Accessories

1. Net3 Radio Focus Remote
2. iRFR and iRFR Preview (application for iPhone, iPod Touch and iPad units)
3. aRFR (application for Android devices)
4. Net3 Remote Video Interface
5. 1 x 20, 2x10 and 2x20 Universal Fader Wings
6. Net 3Gateways
   a. Net3/ETCNet 2 to DMX/RDM Gateways (one to four ports)
   b. MIDI/SMPTE Gateways
   c. I/O Gateway with 12 analog inputs, 12 SPDT contact outputs, RD232 interface
7. Eos Family Client Software Kit

I. Synchronized Backup

1. An optional Backup system shall consist of one of the following combinations of devices:
   a. Two networked desks
   b. One (or more) desk with one Remote Processor Unit (RPU)
   c. One (or more) desk with two Remote Processor Units (RPUs)

J. Physical and Acoustical

1. All operator controls and electronics for a standard system shall be housed in a single desktop console, not to exceed 19” wide, 19” deep, 5.5” high, weighing 20 pounds.
2. Power shall be 95 – 240V AC at 50 or 60Hz, supplied via a detachable power cord.
3. At typical CPU utilization, the unit shall operate at ≤ 26 dBA.
DATA/POWER CABLE SPECIFICATIONS

A.) DMX 512 Cable

1.) ALL DMX 512 CABLE SHALL BE DUAL TWISTED PAIR & SHIELDED, 22 AWG BLACK POLYURETHANE JACKET WITH 1 MALE 5 PIN XLR NEUTRIK (BLACK/GOLD) CONNECTOR AND 1 FEMALE 5 PIN XLR NEUTRIK (BLACK/GOLD) CONNECTOR WITH 4” CLEAR HEATSHRINK INCLUDED FOR USER LABEL

B.) 15 Amp Edison Extension Cable

1.) ALL 15 AMP, 125 VAC, 2 POLE 3 WIRE EDISON CABLE SHALL BE 12/3 SOOW-A CABLE WITH 1 HBL5266EBKM1 MALE EDISON CONNECTOR AND 1 HBL5269EBKM1 FEMALE EDISON CONNECTOR WITH 4” CLEAR HEATSHRINK INCLUDED FOR USER LABEL

C.) 20 Amp PowerCon Interconnect Cable

1.) ALL 20 AMP, 120VAC POWERCON CABLE SHALL BE 12/3 SJ EXTRA HARD USAGE CABLE WITH 1 POWERCON BLUE AND 1 POWERCON GREY CONNECTOR WITH 4” CLEAR HEATSHRINK INCLUDED FOR USER LABEL

D.) PowerCon /Edison Feed Thru Adapter

1.) ALL POWERCON/EDISON FEED THRU ADAPTERS SHALL BE 12/3 SJTOW-A 300VAC MOLDED Y 36” WITH MALE EDISON TO FEMALE EDISON AND POWERCON BLUE CONNECTOR
PLCYC1 LED CYC LIGHT SPECIFICATION.

A.) Overview.

1.) The luminaire shall be a full spectrum color mixing luminaire employing a red, green, blue, and white LED engine. The engine shall be capable of providing tunable white color temperature matched presets as well as millions of permutations of color.

2.) The luminaire shall employ One (1) LED light source engines that will not emit light in the ultra-violet (wavelengths less than 400nm for UV-A,B, or C) or the Infrared spectrum (wavelengths of more than 775 nm). Units that emit light within this spectrum shall not be accepted.

3.) The luminaire shall employ a 40 degree holographic diffuser with an output of 2,000 lumens in its warm white setting.

4.) The luminaire shall have an integrated control system that provides local controls offering access to set up parameters, preset color temperatures, stored custom presets, and status reporting.

5.) The luminaire shall have control inputs for:
   a. DMX512 with input/output connectivity
   b. Wireless DMX512 (optional) requires additional hardware.

B.) Physical.

1.) PLCYC LED Shall not exceed 10.9 inches [277.4mm] (at it longest dimension) when the luminaire is at a 90 degree angle (at a 90 degree angle to the yoke) or 14.2 inches [360.68mm] when the unit is set at a 0 degree focus angle (pointing straight down).

2.) The optical system shall consist of specifically tuned holographic diffusers in conjunction with a coated asymmetric reflector system.

3.) The Luminaire shall allow for floor or pipe mounting with use of an appropriate approved hanging devices such as a C-Clamp or Half Coupler. Floor mounting shall be achieved without any external trunions or floor mounts. The PLCYC floor mount consists of its yoke and body rotated to form a floor stand.

6.) The construction of the unit shall be a machined aluminum, sheet metal and molded engineering grade plastic.

7.) Weight shall not exceed 7.3 lbs. [3.3 kg] luminaire only.
C.) Electrical.

1.) Luminaire shall be available with PowerCon in and through connectors allowing the daisy chaining of power from luminaire to luminaire.

2.) Supply Voltage shall be 120 to 240VAC, 50/60Hz. (+/- 10% auto-ranging)

3.) The luminaires current draw shall not exceed 1.25 amps (120VAC) or 0.63 amps (240VAC) luminaires that do not meet these criteria shall not be accepted.

4.) The light engine source shall be one (1) RGBW 120 Watt LED chip.

5.) The luminaire shall be ETL and cETL Listed and CE marked.

D.) Environmental.

1.) Maximum operating ambient temperature shall not exceed 104 degrees Fahrenheit (40 degrees Celsius).

2.) A variable speed cooling system shall be employed to maintain the optimal operating temperature of the luminaire.

3.) Luminaires shall be low maintenance and environmentally friendly, all units shall be mercury free.

E.) Operational.

1.) The luminaire shall have control inputs for:
   a. DMX512 with input/output
   b. Wireless DMX512 (optional)

   Luminaires utilizing proprietary only controls shall not be accepted.

2.) DMX512 control will be via either 3 Channel, 8 or 16 bit control; control parameters for each DMX512 output shall be as follows:

   a. 8 Bit Mode (3 Channel)
      1. Intensity
      2. Preset Color Selection
      3. Timing

   b. 8 Bit Mode (9 Channel)
      1. Intensity
      2. Red
      3. Green
4. Blue  
5. White  
6. Preset Color Selection  
7. For Future Use  
8. Timing  
9. Control  

c. 16 Bit Mode (15 Channel)  
1. Intensity - High  
2. Intensity – Low  
3. Red – High  
4. Red – Low  
5. Green – High  
6. Green - Low  
7. Blue – High  
8. Blue – Low  
9. White – High  
10. White – Low  
11. Preset Color Selection  
12. For Future Use  
13. Intensity time  
14. Color time  
15. Control  

3.) The luminaire shall an onboard display and controls of the following:  

a. Menu settings:  
   i. Save a Preset  
   ii. Edit a Preset  
   iii. Color mix  
   iv. Fan Control  
   v. Settings  
   vi. Lock Fixture  
   vii. Enter Password  
   viii. LED Status  

b. Security and Password settings:  
   i. Security Settings  
   ii. Power Up Modes  
   iii. IR Enabled/Disable  
   iv. Software updates  
   v. DMX512 Enabled  

4.) Security settings shall be employed on a four (4) level access. Each level shall allow the end user additional features and settings. Power limit settings, power up presets, hour reset, and password settings may be set under full access
control. Security settings shall follow a four level access and noted as the following:

a.) Level 0 system is locked, Menu/Esc. Key is active
b.) Level 1 All keys are active setting of DMX512, Preset select, intensity
c.) Level 2 Editing and Saving Presets added to Level 1 functionality
d.) Level 3 All settings available on the settings screen

Units not utilizing this type of technology or any security settings shall not be accepted.

5.) The LED technology employed in the luminaire shall be that of a light gathering and pre-combination technology from a smaller number of emitters. The LED shall comprise Red, Blue, Green, and White sources and combined via a light gathering system and then mixed using a TIR device to form a single output beam of uniform color.

6.) Access to on board presets shall be accessible from the control panel of the luminaire. Each user definable preset shall store color temperature, RGBW, and intensity settings for each of the thirty-one (31) presets. Presets shall be stored in the fixture firmware are defined as follows:

   a. Preset 1 (Scratch Pad) user definable preset
   b. Preset 2 (Warm White) factory preset
   c. Preset 3 (Cool White) factory preset
   d. Preset 4 (Daylight) factory preset
   e. Preset 5-31 user definable presets

7.) The luminaire shall provide power monitoring and hour logging technology. This technology employs provides:

   a. Hours in Use
   b. Power consumption
   c. Operating temperature

This technology shall be utilized for information concerning the power consumption of the luminaire, and “on” time for the luminaire. The logging timer may be reset under secure password settings. Luminaires not utilizing hour logging technology and luminaire status will not be accepted.

END OF PLCYC1 LED CYC LIGHT SPECIFICATION.
A.) OVERVIEW (LUMINAIRE).

1.) The luminaire shall be a full spectrum color mixing luminaire employing a red, green, blue, and white LED engine. The engine shall be capable of providing tunable white color temperature matched presets as well as millions of permutations of color.

2.) The luminaire shall employ One (1) LED light source engines that will not emit light in the ultra-violet (wavelengths less than 400nm for UV-A,B, or C) or the Infrared spectrum (wavelengths of more than 775 nm). Units that emit light within this spectrum shall not be accepted.

3.) The LED technology employed in the luminaire shall be that of a light gathering and pre-combination technology from a smaller number of emitters. The LED shall comprise Red, Blue, Green, and White sources and combined via a light gathering system and then mixed using a TIR device to form a single output beam of uniform color.

4.) The luminaire shall have a 15 to 54 degree manual control of spot to flood beam spread with an output in excess of 2,000 lumens.

5.) The luminaire shall have an integrated control system that provides local controls offering access to set up parameters, preset color temperatures, stored custom presets, and status reporting.

6.) The luminaire shall have control inputs for DMX512 with input/output connectivity

7.) The Fresnel shall be a purpose-built fixture designed for interior stage, studio and display lighting applications. The lamp house of the Fresnel fixture shall have rounded corners and edges with no sharp edges. It shall be constructed from aluminum and engineering plastics.

8.) The sides of the Fresnel fixture shall be constructed from extruded aluminum for strength, lower weight and no noise during the expansion and contraction period when the Fresnel fixture is heating up. Sides constructed from sheet metal shall not be accepted. Ventilation of the Fresnel fixture shall be maximized by not less than five convection slots running the entire length of the housing with additional transverse ventilation slots top and bottom.

9.) The front and rear of the Fresnel fixture shall be constructed from high temperature and impact resistant engineering plastic moldings for strength, and lower weight.

10.) The Fresnel beam will have a soft edge with minimal spill.
11.) The Fresnel shall use a four and one half-inch (112mm) Fresnel lens, mounted inside the fixture secured with stainless steel spring "T" clips. These clips shall hold the lens in position and allow for movement caused by heat expansion.

12.) The lens shall be able to be accessed for cleaning in the lamp housing by means of a side hinged bottom tray held closed with two screws.

13.) The focus system shall comprise of the LED engine assembly moving in relation to the fixed lens. The focus action shall be direct slide action on a Teflon® coated bearing to minimize vibration and friction. The focus fastening system shall be by a simple heat resistant low maintenance screw knob.

14.) Tilt adjustment shall be by means of a screw lock system secured by a hand sized insulated "T" handle which also allows one hand adjustment. The yoke position shall be adjustable along the length of the fixture.

15.) The fixture is provided with a formed steel yoke with a central hole for a 1/2 inch (M12) suspension bolt set comprising 1/2 inch set screw (M12), nut and two washers.

16.) The four-leaf Barndoor accessory shall be constructed from high heat and impact resistant engineering plastic and lightweight steel sheet for each leaf. It shall be possible to rotate the barndoor leaves 360 degrees to facilitate the beam masking. The leaf tension shall be adjustable to suit the operator's preference. The barndoor shall have safety chain anchor points provided which are integral to the barndoor base molding. An accessory lock cover is to be provided to securely attach this to the fixture when in use.

17.) The luminaire shall conform to UL 1573 stage and studio use as well as UL 8750 LED standards and tested via ETL to conform to the aforementioned UL specifications, luminaire shall hold ETL, cETL, Ctick, and CE markings.

B.) OVERVIEW (PL INTERCONNECT BOX)

1.) The interconnect box shall be contain all of the power and data interconnectivity for the PLfresnel1.

2.) The PLICB (PL Interconnect Box) shall contain:
   One (1) Power Con In (Blue) connector
   One (1) Power Con out (Gray) Connector
   One(1) DMX 5 Pin XLR Female Connector
   One (1) DMX 5 Pin XLR Male Connector
   One (1) Multi-pin Data/Power Receptacle.

3.) The PL interconnect box shall be able to be mounted:
   a. between the luminaire yoke and the mounting device such as a C-Clamp, Hook Clamp, or Half Coupler,
STRAND SELECON PLFRESNEL1 LED FRESNEL SPECIFICATION.

b. to the underside of the yoke – Between the luminaire and underside of the yoke,
c. independently hung using a C-Clamp, Hook Clamp, or Half Coupler

4.) The PL interconnect Box shall connect to the luminaire utilizing one(1) composite lead which will transmit both power and data to the interconnected luminaire.

C.) PHYSICAL

1.) PLFresnel1 Led Shall not exceed 17.5 inches [444.8mm] when the luminaire is at a zero degree angle (at 90 degrees) to the mounting structure and 11.8 inches [298.9mm] high from the bottom of the luminaire to the top of the yoke.

2.) The optical system shall consist of coated aspheric and fresnel lenses.

3.) PLFresnel1 accessory holder shall be capable of holding external beam shaping devices such as diffusion filters, top hats and barndoors .

4.) The luminaire shall allow for a manual rotation of 360 degrees pan and 270 degrees tilt (through utilization of the sliding yoke) to provide optimum luminaire orientation at all times. Luminaires offering limited range of motion shall not be accepted.

5.) The construction of the unit shall be a extruded aluminum, sheet metal and molded engineering grade plastic.

6.) Weight shall not exceed 12.34 lbs. [5.6 kg] luminaire only.

D.) PHYSICAL (PL INTERCONNECT BOX)

1.) The PL Interconnect Box (PLICB) shall not exceed 1-11/16” [43mm] (H) x 5-1/4” [133] (L) x 3-1/16” [78mm] (W)

2.) The PLICB shall employ a mounting hole through the center of the unit to allow for a ½” (M12) bolt to pass through. The PLICB shall employ a reinforcing center sleeve.

3.) The PLICB shall swivel independently of the luminaire to allow for cable management where no service loop for DMX or Power is required.
E.) ELECTRICAL

1.) Supply Voltage shall be 90-264VAC auto-ranging

2.) The luminaires current draw shall not exceed 1.91 amps (120V) or 0.95 amps (240V) luminaires that do not meet these criteria shall not be accepted.

3.) The light engine source shall be one (1) RGBW 120 Watt LED chip.

4.) The luminaire shall be CE, C-Tick, ETL and cETL Listed.

F.) ENVIRONMENTAL

1.) Maximum operating ambient temperature shall not exceed 113 degrees Fahrenheit (45 degrees Celsius).

2.) A variable speed cooling system shall be employed to maintain the optimal operating temperature of the luminaire.

3.) Luminaires shall be low maintenance and environmentally friendly, all units shall be mercury free.

G.) OPERATION

1.) The luminaire shall have control inputs for: DMX 512a/1990
Luminaires utilizing proprietary only controls shall not be accepted.

2.) DMX512 control will be via either 3 Channel, 8 or 16 bit control; control parameters for each DMX512 output shall be as follows:

   a. 8 Bit Mode (3 Channel)
      1. Intensity
      2. Preset Color Selection
      3. Timing

   b. 8 Bit Mode (9 Channel)
      1. Intensity
      2. Red
      3. Green
      4. Blue
      5. White
      6. Preset Color Selection
      7. *For Future Use*
      8. Timing
      9. Control
c. 16 Bit Mode (15 Channel)
   1. Intensity - High
   2. Intensity – Low
   3. Red – High
   4. Red – Low
   5. Green – High
   6. Green - Low
   7. Blue – High
   8. Blue – Low
   9. White – High
  10. White – Low
  11. Preset Color Selection
  12. For Future Use
  13. Intensity time
  14. Color time
  15. Control

3.) The luminaire shall an onboard display and controls of the following:
   a. Menu settings:
      i. Save a Preset
      ii. Edit a Preset
      iii. Color mix
      iv. Fan Control
      v. Settings
      vi. Lock Fixture
      vii. Enter Password
      viii. LED Status

   b. Security and Password settings:
      i. Security Settings
      ii. Power Up Modes
      iii. IR Enabled/Disable
      iv. Software updates
      v. DMX512 Enabled

4.) Security settings shall be employed on a four (4) level access. Each level shall allow the end user additional features and settings. Power limit settings, power up presets, hour reset, and password settings may be set under full access control. Security settings shall follow a four level access and noted as the following:
   a.) Level 0 system is locked, Menu/Esc. Key is active
   b.) Level 1 All keys are active setting of DMX512, Preset select, intensity
   c.) Level 2 Editing and Saving Presets added to Level 1 functionality
d.) Level 3 All settings available on the settings screen

Units not utilizing this type of technology or any security settings shall not be accepted.

5.) Access to on board presets shall be accessible from the control panel of the luminaire. Each user definable preset shall store color temperature, RGBW, and intensity settings for each of the thirty-one (31) presets. Presets shall be stored in the fixture firmware are defined as follows:

   a. Preset 1 (Scratch Pad) user definable preset
   b. Preset 2 (Warm White) factory preset
   c. Preset 3 (Cool White) factory preset
   d. Preset 4 (Daylight) factory preset
   e. Preset 5-31 user definable presets

6.) The luminaire shall provide power monitoring and hour logging technology. This technology employs provides:

   a. Hours in Use
   b. Power consumption
   c. Operating temperature

This technology shall be utilized for information concerning the power consumption of the luminaire, and “on” time for the luminaire. The logging timer may be reset under secure password settings. Luminaires not utilizing hour logging technology and luminaire status will not be accepted.

H.) DIMMING

1.) The Luminaire, in sixteen bit mode, shall use 16-bit nonlinear scaling techniques for high-resolution dimming.

2.) Dimming curves shall be optimized via the luminaire for smooth dimming over longer timed fades.

   The Luminaire shall be digitally driven using high-speed pulse width modulations (PWM) in concert with power factor control (PFC) to ensure a smooth flicker free dim curve from 100 to 0 % and shall be imperceptible to video cameras and video related devices
I.) WARRANTY
Luminaire manufacturer shall offer a three year warranty on the luminaire, LED and Interconnect box. Manufacturers not offering a minimum of a three year warranty shall not be accepted.

END OF PLfresnel1 LED LUMINAIRE SPECIFICATION.
A.) OVERVIEW (LUMINAIRE).

1.) The luminaire shall be a full spectrum color mixing luminaire employing a red, green, blue, and white LED engine. The engine shall be capable of providing tunable white color temperature matched presets as well as millions of permutations of color.

2.) The luminaire shall employ One (1) LED light source engines that will not emit light in the ultra-violet (wavelengths less than 400nm for UV-A, B, or C) or the Infrared spectrum (wavelengths of more than 775 nm). Units that emit light within this spectrum shall not be accepted.

3.) The LED technology employed in the luminaire shall be that of a light gathering and pre-combination technology from a smaller number of emitters. The LED shall comprise Red, Blue, Green, and White sources and combined via a light gathering system and then mixed using a TIR device to form a single output beam of uniform color.

4.) The luminaire shall have a 18° to 34° or 24° to 44° (depending upon the lens tray type) manual control of a narrow to wide beam with a focus from soft to sharp with an output in excess of 2,000 lumens.

5.) The luminaire shall have an integrated control system that provides local controls offering access to set up parameters, preset color temperatures, stored custom presets, and status reporting.

6.) The luminaire shall have control inputs for DMX512 with input/output connectivity.

7.) The PLprofile1 LED Ellipsoidal shall be a purpose-designed fixture for interior stage, studio and display lighting applications. It shall be constructed from custom aluminum extrusions and die-castings. All corners and edges shall be rounded and have no sharp edges. The finish is to be a low reflective, matt charcoal color, electrostatically applied, baked on epoxy powder coat.

8.) Four stainless steel shutters shall be fitted, located at the focal point of the optical system in a spring tensioned gate assembly. The shutters will mask the beam and provide a crisp edge when inserted. Each shutter is to have a heat resistant handle with two finger holes for easy manipulation.

9.) The sides of the profile luminaire shall be constructed from extruded aluminum for strength and lower weight. Sides constructed from sheet metal shall not be accepted. Ventilation of the LED profile Luminaire shall be maximized by not less than five convection slots running the entire length of the housing with additional transverse ventilation slots top and bottom.
10.) The front and rear of the LED Profile Luminaire shall be constructed from high temperature and impact resistant engineering plastic moldings for strength, and lower weight.

11.) The PLProfile1 LED variable lenses shall be manufactured from high heat resistant polished borosilicate glass mounted within molded holders which move captive along a custom extrusion. The lenses are to move with a minimum of vibration and without metal-to-metal contact. The focus fastening system is via simple maintenance free screw knobs located on the bottom side of the lens tube.

12.) The lenses shall be available for cleaning by means of a side hinged bottom tray held closed with a sprung 'push in' finger locking clip. The entire lens assembly shall be removable for cleaning without tools by unlocking of the hinge after operation of the locking clip.

13.) The Medium 18° to 34° lens assembly supplied shall be interchangeable with the Wide 24° to 44° lens assembly quickly in this manner.

14.) Tilt adjustment shall be by means of a screw lock system secured by a hand sized insulated "T" handle which also allows one hand adjustment. The yoke position shall be adjustable along the length of the fixture.

15.) The Luminaire is provided with a formed steel yoke with a central hole for a 1/2 inch (M12) suspension bolt set comprising 1/2 inch set screw (M12), nut and two washers.

16.) The luminaire shall conform to UL 1573 stage and studio use as well as UL 8750 LED standards and tested via ETL to conform to the aforementioned UL specifications, luminaire shall hold ETL, cETL, Ctick, and CE markings.

B.) OVERVIEW (PL INTERCONNECT BOX)

1.) The interconnect box shall be contain all of the power and data interconnectivity for the PLprofile1.

2.) The PLICB (PL Interconnect Box) shall contain:
   - One (1) Power Con In (Blue) connector
   - One (1) PowerCon out (Gray) Connector
   - One(1) DMX 5 Pin XLR Female Connector
   - One (1) DMX 5 Pin XLR Male Connector
   - One (1) Multi-pin Data/Power Receptacle.

3.) The PL interconnect box shall be able to be mounted:
   a. between the luminaire yoke and the mounting device such as a C-Clamp, Hook Clamp, or Half Coupler,
STRAND SELECON PLPROFILE 1 LED ZOOMSPOT SPECIFICATION.

b. to the underside of the yoke – Between the luminaire and underside of the yoke,
   c. independently hung using a C-Clip, Hook Clamp, or Half Coupler

4.) The PL interconnect Box shall connect to the luminaire utilizing one(1) composite lead which will transmit both power and data to the interconnected luminaire.

C.) PHYSICAL (Luminaire)

1.) PLprofile1 Led Shall not exceed 26.18 inches [664.9mm] when the luminaire is at a zero degree angle (at 90 degrees) to the mounting structure and 15.94 inches [404.8mm] high from the bottom of the luminaire to the top of the yoke with the PLICB installed.

2.) The optical system shall consist of coated aspheric lenses.

3.) PLprofile1 accessory holder shall be capable of holding external beam shaping devices such as diffusion, filters, and tophats.

4.) The luminaire shall allow for a manual rotation of 360 degrees pan and 270 degrees tilt (through utilization of the sliding yoke) to provide optimum luminaire orientation at all times. Luminaires offering limited range of motion shall not be accepted.

5.) The construction of the unit shall be a extruded aluminum, sheet metal and molded engineering grade plastic.

6.) Weight shall not exceed 18.95 lbs. [8.6 kg] luminaire only.

D.) PHYSICAL (PL INTERCONNECT BOX)

1.) The PL Interconnect Box (PLICB) shall not exceed 1-11/16” [43mm] (H) x 5-1/4” [133] (L) x 3-1/16” [78mm] (W)

2.) The PLICB shall employ a mounting hole through the center of the unit to allow for a ½” (M12) bolt to pass through. The PLICB shall employ a reinforcing center sleeve.

3.) The PLICB shall swivel independently of the luminaire to allow for cable management where no service loop for DMX or Power is required.
E.) ELECTRICAL

1.) Supply Voltage shall be 90-264VAC auto-ranging

2.) The luminaires current draw shall not exceed 1.91 amps (120V) or 0.95 amps (240V) luminaires that do not meet these criteria shall not be accepted.

3.) The light engine source shall be one (1) RGBW 120 Watt LED chip.

4.) The luminaire shall be CE, C-Tick, ETL and cETL Listed.

F.) ENVIRONMENTAL

1.) Maximum operating ambient temperature shall not exceed 113 degrees Fahrenheit (45 degrees Celsius).

2.) A variable speed cooling system shall be employed to maintain the optimal operating temperature of the luminaire.

3.) Luminaires shall be low maintenance and environmentally friendly, all units shall be mercury free.

G.) OPERATION

1.) The luminaire shall have control inputs for: DMX 512a/1990
   Luminaires utilizing proprietary only controls shall not be accepted.

2.) DMX512 control will be via either 3 Channel, 8 or 16 bit control; control parameters for each DMX512 output shall be as follows:

   a. 8 Bit Mode (3 Channel)
      1. Intensity
      2. Preset Color Selection
      3. Timing

   b. 8 Bit Mode (9 Channel)
      1. Intensity
      2. Red
      3. Green
      4. Blue
      5. White
      6. Preset Color Selection
      7. For Future Use
      8. Timing
      9. Control
c. 16 Bit Mode (15 Channel)
   1. Intensity - High
   2. Intensity – Low
   3. Red – High
   4. Red – Low
   5. Green – High
   6. Green - Low
   7. Blue – High
   8. Blue – Low
   9. White – High
  10. White – Low
  11. Preset Color Selection
  12. For Future Use
  13. Intensity time
  14. Color time
  15. Control

3.) The luminaire shall an onboard display and controls of the following:

   a. Menu settings:
      i. Save a Preset
      ii. Edit a Preset
      iii. Color mix
      iv. Fan Control
      v. Settings
      vi. Lock Fixture
      vii. Enter Password
      viii. LED Status

   b. Security and Password settings:
      i. Security Settings
      ii. Power Up Modes
      iii. IR Enabled/Disable
      iv. Software updates
      v. DMX512 Enabled

4.) Security settings shall be employed on a four (4) level access. Each level shall allow the end user additional features and settings. Power limit settings, power up presets, hour reset, and password settings may be set under full access control. Security settings shall follow a four level access and noted as the following:
   a.) Level 0 system is locked, Menu/Esc. Key is active
   b.) Level 1 All keys are active setting of DMX512, Preset select, intensity
   c.) Level 2 Editing and Saving Presets added to Level 1 functionality
d.) Level 3 All settings available on the settings screen

Units not utilizing this type of technology or any security settings shall not be accepted.

5.) Access to on board presets shall be accessible from the control panel of the luminaire. Each user definable preset shall store color temperature, RGBW, and intensity settings for each of the thirty-one (31) presets. Presets shall be stored in the fixture firmware are defined as follows:

a. Preset 1 (Scratch Pad) user definable preset
b. Preset 2 (Warm White) factory preset
c. Preset 3 (Cool White) factory preset
d. Preset 4 (Daylight) factory preset
e. Preset 5-31 user definable presets

6.) The luminaire shall provide power monitoring and hour logging technology. This technology employs provides:

   a. Hours in Use
   b. Power consumption
   c. Operating temperature

This technology shall be utilized for information concerning the power consumption of the luminaire, and "on" time for the luminaire. The logging timer may be reset under secure password settings. Luminaires not utilizing hour logging technology and luminaire status will not be accepted.

H.) DIMMING

1.) The Luminaire, in sixteen bit mode, shall use 16-bit nonlinear scaling techniques for high-resolution dimming.

2.) Dimming curves shall be optimized via the luminaire for smooth dimming over longer timed fades.

   The Luminaire shall be digitally driven using high-speed pulse width modulations (PWM) in concert with power factor control (PFC) to ensure a smooth flicker free dim curve from 100 to 0 % and shall be imperceptible to video cameras and video related devices
I.) WARRANTY
   Luminaire manufacturer shall offer a three year warranty on the luminaire, LED and Interconnect box. Manufacturers not offering a minimum of a three year warranty shall not be accepted.

END OF SPECIFICATION.