

Fortuna Union High School District

INVITATION FOR BIDS

Proposition 39

LED Lighting Retrofit, Phase II Bid No. 17-022-02

DEADLINE FOR SUBMITTING BIDS:

2:00 p.m., July 6, 2017

All bids must be submitted in person or by mail to:

Patrick Owen, Project Manager

Redwood Coast Energy Authority (RCEA)

633 3rd Street

Eureka, CA, 95501

Mandatory Pre-Bid Conference

A mandatory pre-bid conference will be held, by appointment only, to acquaint all prospective bidders with the Contract Documents and the Project site. Failure to attend the conference may result in the disqualification of the bid of the non-attending bidder. Please note that this is a re-bid of the project that was previously issued on April 12, 2017 - Bidders that attended the prior mandatory pre-bid conference, on April 26, 2017, are exempt from this requirement.

Date: By Appointment only – call Project Manager to schedule

Time: TBD

Location: Fortuna Union High School District Office
Next to the 14th Street Parking Lot
Fortuna, CA 95540

Contacts: Patrick Owen, Project Manager
powen@redwoodenergy.org
(707) 269-1700, x318

Glen Senestraro, Superintendent
gsenestraro@fuhsdistrict.net
(707) 725-4462

OVERVIEW

Fortuna Union High School District is soliciting bids from interested contractors to implement LED lighting improvements at their campus. The goal of the project is to reduce energy use at the school site. The expected work product is to install identified capital improvements that will reduce the overall energy usage and comply with California Energy Commission (CEC) guidelines for the use of Proposition 39 funding.

The District seeks a contractor to complete the following:

- Interior lighting retrofits (T8 & T12 to LED T8 and high bay retrofit).
- Provide and install sixteen (16) new LED Highbay fixtures

A proposed schedule indicating the timeline for this solicitation is presented below.

SCHEDULE

The following is a schedule of significant events and deadlines:

Issue Date	Friday, June 16, 2017
Mandatory pre-bid conference:	* By appointment
Bids due:	By 2:00 p.m., July 6, 2017
Public bid opening:	After 2:00 p.m., July 6, 2017
Anticipated bid award date:	Wednesday, July 12, 2017
Installation start date:	No earlier than July 20, 2017
Installation complete:	no later than July 13, 2018

* Please note that this is a re-bid of the project that was previously issued on April 12, 2017 - Bidders that attended the prior mandatory pre-bid conference, on April 26, 2017, are exempt from this requirement.

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NOTICE INVITING BIDS
Fortuna Union High School District
Proposition 39 LED Lighting Retrofit, Phase II

1. Notice is hereby given that the Governing Board of the Fortuna Union High School District (“District”), of the County of Humboldt, State of California, will receive sealed bids for the Proposition 39 Phase 2 LED Lighting Retrofit, Phase II Project (“Project”) up to, but not later than, **2:00 p.m. pm., on July 6, 2017**, and will thereafter publicly open and read aloud the bids. **(Please note that this is a re-bid of the Project**, which was previously issued on April 12, 2017). All bids shall be received at the office of the Redwood Coast Energy Authority, 633 Third St. Eureka, California 95501.
2. Each bid shall be completed on the Bid Proposal Form included in the Contract Documents, and must conform and be fully responsive to this invitation, the plans and specifications and all other Contract Documents. Copies of the Contract Documents are available on the “Bid Opportunities” page of RCEA’s website, www.redwoodenergy.org.
3. Each bid shall be accompanied by cash, a cashier's or certified check, or a bidder's bond executed by a California licensed surety, made payable to the District, in an amount not less than ten percent (10%) of the maximum amount of the bid and shall be given as a guarantee that the bidder to whom the contract is awarded will execute the Contract Documents and will provide the required payment and performance bonds and insurance certificates within ten days after the notification of the award of the contract.
4. The successful bidder shall comply with the provisions of the Labor Code pertaining to payment of the generally prevailing rate of wages and apprenticeships or other training programs. The Department of Industrial Relations has made available the general prevailing rate of per diem wages in the locality in which the work is to be performed for each craft, classification or type of worker needed to execute the contract, including employer payments for health and welfare, pension, vacation, apprenticeship and similar purposes. Copies of these prevailing rates are available to any interested party upon request and are online at <http://www.dir.ca.gov/DLSR>. The Contractor and all Subcontractors shall pay not less than the specified rates to all workers employed by them in the execution of the Contract. It is the Contractor's responsibility to determine any rate change.
5. The substitution of appropriate securities in lieu of retention amounts from progress payments in accordance with Public Contract Code §22300 is permitted.
6. Pursuant to Public Contract Code §4104, each bid shall include the name and location of the place of business of each subcontractor who shall perform work or service or fabricate or install work for the contractor in excess of one-half of one percent of the bid price and shall describe the type of work to be performed by each listed subcontractor.
7. No bid may be withdrawn for a period of sixty days after the date set for the opening for bids except as provided by Public Contract Code §§5100 *et seq.* The District reserves the right to reject any and all bids and to waive any informalities or irregularities in the bidding.
8. In accordance with SB 854, the project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations.
9. Each bidder shall possess at the time the bid is awarded the following classification(s) of California State Contractor's license: C-10 Electrical.
10. Mandatory Bidders’ Conference. Since this is a re-bid of the project, any attendees of the previous pre-bid site visit are not required to attend. Any new prospective bidders must contact the Project Manager, Patrick Owen, by phone at 707 269-1700, x 318, or by email at powen@redwoodenergy.org, to schedule a pre-bid walk through time, for the purpose of

acquainting all prospective bidders with the Contract Documents and the Project site. Failure to attend the conference may result in the disqualification of the bid of the non-attending bidder.

Fortuna Union High School District
By: Glen Senestraro, Superintendent

DATED: June 15, 2017

Publication Dates: 1) June 16, 2017 2) June 23, 2017

SCOPE OF WORK

Fortuna Union High School District (“District”) is soliciting bids from licensed and qualified contractors for the following scope of work at the Fortuna Union High School campus in Fortuna, California.

The selected contractor will:

- 1. Retrofit existing fluorescent fixtures to LED fixtures, as described in Appendix 3.**
- 2. Provide and install sixteen (16) new LED Highbay fixtures, as described in Appendix 3.**
- 3. Include the materials cost of an additional 15 new replacement fixtures, Lithonia LBL4 30L LP850 or equivalent, to be installed if needed. If less than 15 fixtures require replacement, the cost of un-installed fixtures, if any, will be credited to the District upon project completion.**
- 4. Include the materials cost of an additional 250 replacement tombstones and 100 narrow, 2 x 4’ wrap fixture replacement lenses, to be installed if needed. The cost of any un-used tombstones and lenses, if any, will be credited to the District upon project completion.**
- 5. Retrofit Existing T-12 8’ fixtures (Appendix 3, line items 90, 94, 187) with T-12 to T-8 conversion kits with compatible LED drivers and (4) 4’ TLEDs.**
- 6. Retrofit the existing 3-lamp fixtures in the Wood Shop and Metal Shop (Appendix 3, line items 126 and 134) that are currently wired in pairs with (1) 2-lamp ballast and (1) 4-lamp ballast powering (6) lamps for every (2) fixtures to (1) 3-lamp driver and (3) TLEDs per fixture.**
- 7. Coordinate with the District and Redwood Coast Energy Authority to ensure adherence to Proposition 39 program guidelines.**
 - a. All project services will comply with Proposition 39: California Clean Energy Jobs Act – 2016 Program Implementation Guidelines.
 - b. Contractor commits to prompt communication of change orders prior to execution to ensure Proposition 39 compliance.
- 8. Follow project rebate guidelines.**
 - a. The selected contractor must work directly with the Redwood Coast Energy Watch (RCEW) program to ensure that the District receives all possible rebates associated with this project. RCEW will manage the rebate process with direct support from the selected contractor to ensure that the project remains rebate eligible. The rebate process requires detailed coordination of a variety of events. The selected contractor agrees to:

- i. Ensure that all applicable LED technologies are listed and eligible for incentives. Use the California Statewide Qualified LED Product List for Verification: <http://www.caioulightingqpl.com>.
- ii. Submit the material list to RCEW prior to purchase to confirm incentive eligibility. For example, changes in selected brands or slight variations in installed wattages may impact overall incentive value or eligibility.
- iii. Be available for the following rebate inspections:
 1. Pre-construction rebate inspection with RCEW or other third party engineering firm.
 2. Post-construction rebate inspection with RCEW or other third party engineering firm.
- iv. Immediately inform RCEW of any potential scope changes that take place during the project.
- v. Furnish adequate invoices that detail material and labor costs at the measure level. These invoices will be submitted to RCEW for rebate purposes.
- vi. Itemize costing for RCEW reporting needs. For additional information about eligibility and reporting requirements for state incentives, please contact Patrick Owen at powen@redwoodenergy.org.

9. In addition to completing the scope defined in Appendix 3:

- a. Purchase all needed materials and equipment.
- b. All lamps shall be 5000°K unless approved or not applicable to the measure.
- c. All new fixtures shall have an L70 \geq 50,000 hours.
- d. Install to final contracted scope.
- e. Verify all fixtures are operational seven (7) days post installation. If not operational, correct and verify.
- f. Provide briefing on the installed equipment to school staff/faculty.

10. Ensure all removed equipment is properly disposed of.

- a. See Section 40 of the contract General Conditions for further details.

INSTRUCTIONS TO BIDDERS

Each response to this Invitation for Bids submitted to the District for the LED Lighting Retrofit, Phase II (“Project”) shall be in accordance with the following instructions and requirements, which are part of the Contract Documents for this Project.

1. **Deadline for Receipt of Bids.** Each bid shall be sealed and submitted to the Redwood Coast Energy Authority, 633 3rd Street, Eureka, no later than **2:00 p.m. on July 6, 2017.** The District suggests that bids be hand delivered in order to ensure their timely receipt. Any bids received after the time stated, regardless of the reason, shall be returned, unopened, to the bidder.

SUBMITTAL OF RESPONSES

Proposals shall be received at the RCEA office at or before 2:00 p.m. on July 6, 2017.

ALL MAILED PROPOSALS SHALL BE ADDRESSED AS FOLLOWS:

BID NO. 17-022-02
Attn: Patrick Owen, Project Manager
Redwood Coast Energy Authority
633 3rd Street
Eureka, CA 95501

The envelope shall also indicate the name and address of the submitting firm, with “DO NOT OPEN UNTIL BID OPENING” on the front of the envelope.

HAND DELIVERED COURIER OR PACKAGED DELIVERED SERVICE SHALL BE DELIVERED DIRECTLY TO:

Redwood Coast Energy Authority
633 3rd Street
Eureka, CA 95501

2. **Mandatory Pre-Bid Conference.** A mandatory pre-bid site visit and question forum will be held by appointment for the purpose of acquainting all prospective bidders with the Contract Documents and the Project site. This will be the bidder’s time to look at the installation site and ask any questions about the project. Failure to attend the conference may result in the disqualification of the bid of the non-attending bidder. Please note that this is a re-bid of the project that was previously issued on April 12, 2017. Bidders that attended the prior mandatory pre-bid conference, on April 26, 2017, are exempt from this requirement.

The pre-bid site visit will begin at the following location:

Fortuna Union High
Next to the 14th Street Parking Lot
Fortuna, CA 95540

3. Requests for Information. A bidder's failure to request clarification or interpretation of an apparent error, inconsistency or ambiguity in the Contract Documents waives that bidder's right to thereafter claim entitlement to additional compensation based upon an ambiguity, inconsistency, or error, which should have been discovered by a reasonably prudent Contractor, subject to the limitations of Public Contract Code §1104. Any questions relative to the bid shall be in writing and directed to the Project Manager at the address specified for receipt of bid proposals. These requests shall be submitted to the Project Manager at least five working days prior to the date the bid is due.
4. Bid Proposal Forms. All bid proposals shall be made on the form provided by the District. All items on the form shall be filled out in ink. Numbers should be stated in figures, and the signatures of all individuals must be in long hand. The completed form should be without interlineations, alterations, or erasures.
5. Execution of Forms. Each bid shall give the full business address of the bidder and must be signed by the bidder or bidder's authorized representative with his or her usual signature. Bids by partnerships must furnish the full names of all partners and must be signed in the partnership name by a general partner with authority to bind the partnership in such matters. Bids by corporations must be signed with the legal name of the corporation, followed by the signature and designation of the president, secretary, or other person authorized to bind the corporation in this matter. The name of each person signing shall also be typed or printed below the signature. When requested by the District, satisfactory evidence of the authority of the officer signing on behalf of the corporation or partnership shall be furnished. A bidder's failure to properly sign required forms may result in rejection of the bid. All bids must include the bidder's contractor license number(s) and expiration date(s).
6. Bid Security. Bid proposals shall be accompanied by a certified or cashier's check or bid bond for an amount not less than ten percent (10%) of the bid amount, payable to the District. A bid bond shall be secured from an admitted surety company, licensed in the State of California, and satisfactory to the District. The bid security shall be given as a guarantee that the bidder will enter into the Contract if awarded the work, and in the case of refusal or failure to enter into the Contract within ten (10) calendar days after notification of the award of the Contract or failure to provide the payment and performance bonds and proof of insurance as required by the Contract Documents, the District shall have the right to award the Contract to another bidder and declare the bid security forfeited. The District reserves the right to pursue all other remedies in law or

equity relating to such a breach including, but not limited to, seeking recovery of damages for breach of contract. Failure to provide bid security, or bid security in the proper amount, shall result in rejection of the bid.

7. Withdrawal of Bid Proposals. Bid proposals may be withdrawn by the bidders prior to the time fixed for the opening of bids, but may not be withdrawn for a period of sixty (60) days after the opening of bids, except as permitted pursuant to Public Contract Code §5103.
8. Addenda or Bulletins. The District reserves the right to issue addenda or bulletins prior to the opening of the bids subject to the limitations of Public Contract Code §4104.5. Any addenda or bulletins issued prior to bid time shall be considered a part of the Contract Documents.
9. Bonds. The successful bidder shall be required to submit payment and performance bonds as specified in and using the bond forms included with the Contract Documents. All required bonds shall be based on the maximum total contract price as awarded, including additive alternates, if applicable.
10. Rejection of Bids and Award of Contract. The District reserves the right to waive any irregularities in the bid and reserves the right to reject any and all bids. The Contract will be awarded, if at all, within sixty (60) calendar days after the opening of bids to the lowest responsible and responsive bidder, subject to Governing Board approval. The time for awarding the Contract may be extended by the District with the consent of the lowest responsible, responsive bidder.
11. Execution of Contract. The successful bidder shall, within ten (10) calendar days of the Notice of Award of the Contract, sign and deliver to the District the executed contract along with the bonds and certificates of insurance required by the Contract Documents. In the event the successful bidder fails or refuses to execute the Contract or fails to provide the bonds and certificates as required, the District may declare the bidder's bid deposit or bond forfeited as liquidated damages, and may award the work to the next lowest responsible, responsive bidder, or may reject all bids and, in its sole discretion, call for new bids. In all cases, the District reserves the right, without any liability, to cancel the award of Contract at any time prior to the full execution of the Contract.
12. Drawings and Specifications. All drawings, specifications and other documents used or prepared during the project shall be the exclusive property of the District.
13. Evidence of Responsibility. Upon the request of the District, a bidder shall submit promptly to the District satisfactory evidence showing the bidder's financial resources, the bidder's experience in the type of work being required by the District, the bidder's availability to perform the Contract and any other required evidence of the bidder's qualifications and responsibility to perform the Contract. The District may consider such

evidence before making its decision to award the Contract. Failure to submit requested evidence may result in rejection of the bid.

14. Taxes. Applicable taxes shall be included in the bid prices.
15. Bid Exceptions. Bid exceptions are not allowed. If the Bidder has a comment regarding the bid documents or the scope of work, the Bidder shall submit those comments to the District for evaluation at least seven working days prior to the opening of the bids. No oral or telephonic modification of any bid submitted will be considered and a sealed written modification may be considered only if received prior to the opening of bids. E-mailed or faxed bids or modifications will not be accepted.
16. Discounts. Any discounts which the bidder desires to provide the District must be stated clearly on the bid form itself so that the District can calculate the net cost of the bid proposal. Offers of discounts or additional services not delineated on the bid form will not be considered by the District in the determination of the lowest responsible responsive bidder.
17. Quantities. The quantities shown on the plans and specifications are approximate. The District reserves the right to increase or decrease quantities as desired.
18. Prices. Bidders must quote prices F.O.B. Fortuna Union High School District unless otherwise noted. Prices should be stated in the units specified and bidders should quote each item separately.
19. Samples. On request, samples of the products being bid shall be furnished to the District.
20. Special Brand Names/Substitutions. In describing any item, the use of a manufacturer or special brand does not restrict bidding to that manufacturer or special brand, but is intended only to indicate quality and type of item desired, except as provided in §3400 of the Public Contract Code. Substitute products will be considered either prior to or after the award of the Contract in accordance with §3400 and as set forth in either the Supplemental Conditions or the Scope of Work. All data substantiating the proposed substitute as an "equal" item shall be submitted with the written request for substitution. Substitutions for products qualifying for rebates must meet the same qualifications. The District and its representatives reserve the right to make all final decisions on product and vendor selection.
21. Container Costs and Delivery. All costs for containers shall be borne by the bidder. All products shall conform to the provisions set forth in the federal, county, state, and city laws for their production, handling, processing and labeling. Packages shall be so constructed to ensure safe transportation to the point of delivery.
22. Bid Negotiations. A bid response to any specific item of the bid using terms such as "negotiable," "will negotiate," or similar phrases, will be considered non-responsive.

23. Prevailing Law. In the event of any conflict or ambiguity between these instructions and state or federal law or regulations, the latter shall prevail. All equipment to be supplied or services to be performed under the bid proposal shall conform to all applicable requirements of local, state and federal law, including, but not limited to, Labor Code §§1771, 1778 and 1779.
24. Allowances. An “allowance” means an amount included in the bid proposal for work that may or may not be included in the Project, depending on conditions that will become known only after the Project is underway.
25. Subcontractors. Pursuant to the Subletting and Subcontracting Fair Practices Act, Public Contract Code §§4100-4114, every bidder shall, on the enclosed Subcontractor List Form, set forth:
- a. The name and location of the place of business of each Subcontractor who will perform work or labor or render service to the bidder in or about the work or fabricate and install work in an amount in excess of one-half (1/2) of the one percent (1%) of the bidder's total bid.
 - b. If the bidder fails to specify a Subcontractor for any portion of the work to be performed under the Contract in excess of one-half (1/2) of one percent (1%) of the bidder's total bid, bidder agrees that bidder is fully qualified to and shall perform that portion of the work. The successful bidder shall not, without the written consent of the District or compliance with Public Contract Code §§4100 - 4114, either:
 - 1) Substitute any person as Subcontractor in place of the Subcontractor designated in the original bid;
 - 2) Permit any subcontract to be voluntarily assigned or transferred or allow the work to be performed by anyone other than the original Subcontractor listed in the bid; or
 - 3) Sublet or subcontract any portion of the work in excess of one-half (1/2) of one percent (1%) of the total bid as to which the bidder's original bid did not designate a Subcontractor.
26. Examination of Contract Documents and Work Site. Before submitting a bid proposal, all bidders shall carefully examine the Contract Documents, including the plans and specifications, shall visit the site of the proposed work, and shall fully inform themselves of all conditions in and about the work site, as well as applicable federal, state, and local laws and regulations that may affect the work. No bidder shall visit the site without prior authorization of the District. Bidders shall contact the District Superintendent or designee for coordination of site visits.

27. Form and Approval of Contract. The Contract Documents must be approved by the Governing Board of the District and its legal counsel. The bidder selected by the District shall execute the contract provided by the District.
28. Licenses and Permits. Each bidder, and its Subcontractors, if any, shall at all times possess all appropriate and required licenses or other permits to perform the work as identified in the Contract Documents. Upon request, each bidder shall furnish the District with evidence demonstrating possession of the required licenses or permits.
29. Denial of Right to Bid. Contractors or Subcontractors who have violated state law governing public works shall be denied the right to bid on this public works contract pursuant to Labor Code §1777.7.
30. Bidders Interested in More Than One Bid. No person, firm, or corporation shall make, or file, or be interested in more than one bid. However, a person, firm, or corporation that has submitted a sub-proposal to a bidder, or that has quoted prices of materials to a bidder, is not thereby disqualified from submitting a sub-proposal or quoting prices to other bidders or from submitting a prime proposal.
31. Contractor's State License Board. Contractors and Subcontractors are required by law to be licensed and regulated by the California Contractors' License Board.
32. Fingerprinting. By law it is the District's responsibility to determine whether a contractor must provide fingerprint certification. Pursuant to Education Code §45125.2, the District considers the totality of the circumstances in order to determine if fingerprinting of employees of a contractor working on a school site is required. Factors to be considered include the length of time the contractor's employees are on school grounds, whether students are in proximity to the location where the contractor's employees are working, and whether the contractor's employees are working alone or with others.
33. Disabled Veterans Participation Goals. In accordance with Education Code §17076.11, this District has a participation goal for disabled veteran business enterprises ("DVBE") of at least 3 percent per year of the overall dollar amount of funds allocated to the District by the State Allocation Board pursuant to the Leroy F. Greene School Facilities Act of 1998 for construction or modernization and expended each year by the District. Prior to, and as a condition precedent for final payment under the Contract for the project, the Contractor shall provide appropriate documentation to the District identifying the amount paid to DVBE in conjunction with the contract, so that the District can assess its success at meeting this goal. The Office of Small Business and DVBE Certification (OSDC), (916) 375-4940, www.pd.dgs.ca.gov/smbus/default.htm, is an information resource to assist bidders in locating Disabled Veteran Business Enterprises. (Please note: while the OSDC may be used as a resource, the DVBE Program administered by OSDC applies to state contracts, not local agency (school district) contracts.)

34. Labor Compliance Program. The project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations. In accordance with SB 854, all bidders, contractors, and subcontractors working at the sites shall be duly registered with the Department of Industrial Relations at time of bid opening and at all relevant times. Proof of registration shall be provided as to all such contractors prior to the commencement of any work.

35. Additive and Deductive Items: Method of Determining Lowest Bid. Pursuant to Public Contract Code §20103.8, if the bid solicitation includes additive and/or deductive items, the checked [X] method shall be used to determine the lowest bid:

(a) The lowest bid shall be the lowest bid price on the base contract without consideration of the prices on the additive or deductive items.

(b) The lowest bid shall be the lowest total of the bid prices on the base contract and those additive or deductive items that were specifically identified in the bid solicitation or Bid Proposal Form as being used for the purpose of determining the lowest bid price.

(c) The lowest bid shall be the lowest total of the bid prices on the base contract and those additive or deductive items taken in order from a specifically identified list of those items that, when in the solicitation, and added to, or subtracted from, the base contract, are less than, or equal to, a funding amount publicly disclosed by the District before the first bid is opened.

(d) The lowest bid shall be determined in a manner that prevents any information that would identify any of the bidders or the proposed Subcontractors or suppliers from being revealed to the public entity before the ranking of all bidders from lowest to highest has been determined.

If no method is checked, sub-paragraph (a) shall be used to determine the lowest bid.

Notwithstanding the method used by the District to determine the lowest responsible bidder, the District retains the right to add to or deduct from the Contract any of the items included in the bid solicitation.

37. Bid Protest. Any bid protest must be in writing and received by the District Office before 5:00 p.m. no later than three (3) working days following bid opening and shall comply with the following requirements:

a. The bid protest must contain a complete statement of the basis for the protest and all supporting documentation.

b. The party filing the protest must have actually submitted a bid for the Project. A Subcontractor of a bidder submitting a bid for the Project may not submit a bid

protest. A bidder may not rely on the bid protest submitted by another bidder, but must timely pursue its own protest.

- c. The protest must refer to the specific portion or portions of the Contract Documents upon which the protest is based.
- d. The protest must include the name, address and telephone number of the person representing the protesting bidder.
- e. The bidder filing the protest must concurrently transmit a copy of the bid protest and all supporting documentation to all other bidders with a direct financial interest which may be affected by the outcome of the protest, including all other bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.
- f. The bidder whose bid has been protested may submit a written response to the bid protest. Such response shall be submitted to the District before 5 p.m. no later than two (2) working days after the deadline for submission of the bid protest or receipt of the bid protest, whichever is sooner, and shall include all supporting documentation. Such response shall also be transmitted concurrently to the protesting bidder and to all other bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.
- g. The procedure and time limits set forth in this section are mandatory and are the bidder's sole and exclusive remedy in the event of bid protest. The bidder's failure to comply with these procedures shall constitute a waiver of any right to further pursue the bid protest, including filing a Government Code claim or legal proceedings.
- h. If the District determines that a protest is frivolous, the protesting bidder may be determined to be non-responsible and that bidder may be determined to be ineligible for future contract awards by the District.
- i. A "working day" for purposes of this section means a weekday during which the District's office is open and conducting business, regardless of whether or not school is in session.

BID PROPOSAL FORM

Governing Board
Fortuna Union High School District

Dear Members of the Governing Board:

The undersigned, doing business under the name of _____, having carefully examined the location of the proposed work, the local conditions of the place where the work is to be done, the Notice Inviting Bids, the General Conditions, the Instructions to Bidders, the Plans and Specifications, and all other Contract Documents for the proposed Fortuna Union High School District LED Lighting Retrofit, Phase II Project (“Project”), and having accurately completed the Bidder’s Questionnaire, proposes to perform all work and activities in accordance with the Contract Documents, including all of its component parts, and to furnish all required labor, materials, equipment, transportation and services required for the construction of the Project in strict conformity with the Contract Documents, including the Plans and Specifications, as follows:

BID:

<i>Energy Efficiency Measure(s)</i>	<i>Description</i>	<i>For Scoping See:</i>	<i>Total Installed Cost</i>
Scope Item 1	Retrofit existing T-8 and T-12 fluorescent fixtures to TLEDs with compatible LED drivers per Appendix 3.	Appendix 3	\$
Scope Item 2	Provide and install sixteen (16) new LED Highbay fixtures, as described in Appendix 3.	Appendix 3	\$
Scope Item 3	Include the materials cost of an additional 15 new replacement fixtures, Lithonia LBL4 30L LP850 or equivalent, to be installed if needed.	Page 5: Scope of Work	\$
Scope Item 4	Include the materials cost of an additional 250 replacement tombstones and 100 narrow, 2 x 4’ wrap fixture replacement lenses, to be installed if needed.	Page 5: Scope of Work	\$

For the sum of: _____ dollars (\$ _____).

The undersigned has checked carefully all the above figures and understands that the District is not responsible for any errors or omissions on the part of the undersigned in making this bid.

Enclosed find certified or cashier's check no. _____ of the _____ Bank for _____ Dollars (\$ _____) or Bidder's Bond of the _____ surety company in an amount of not less than ten percent (10%) of the entire bid. The undersigned further agrees, on the acceptance of this proposal, to execute the Contract and provide the required bonds and insurance and that in case of default in

executing these documents within the time fixed by the Contract Documents, the proceeds of the check or bond accompanying this bid shall be forfeited and shall become the property of the District.

Contractor agrees to commence the work within the time specified in the Notice to Proceed. It is understood that this bid is based upon completing the work within the number of calendar days specified in the Contract Documents.

ADDENDA:

Receipt of the following addenda is hereby acknowledged:

Addendum # _____	Dated: _____	Addendum # _____	Dated: _____
Addendum # _____	Dated: _____	Addendum # _____	Dated: _____
Addendum # _____	Dated: _____	Addendum # _____	Dated: _____

Respectfully submitted,

Company: _____

Address: _____

By: _____

(Please Print or Type)

Signature: _____

Title: _____

Date: _____

Telephone: _____

Contractor's License No: _____ Expiration Date _____

Required Attachments:

- 1) Subcontractor List Form
- 2) Workers' Compensation Certificate
- 3) Non-Collusion Affidavit
- 4) Bid Bond (or Cashier's or Certified Check)
- 5) Bidder's Questionnaire

2) WORKERS' COMPENSATION CERTIFICATE

Labor Code §3700 in relevant part provides:

"Every employer except the State shall secure the payment of compensation in one or more of the following ways:

- (a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this State.
- (b) By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees."

I am aware of the provisions of §3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this Contract and will require all Subcontractors to do the same.

Contractor

By: _____

In accordance with Article 5 (commencing at §1860), Chapter 1, Part 7, Division 2 of the Labor Code, the above certificate must be signed and filed with the awarding body prior to performing any work under this Contract.

3) NONCOLLUSION AFFIDAVIT

To be executed by the bidder and submitted with the bid.

_____, declares that he or she is _____ of _____, the party making the foregoing bid, and affirms that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true and correct; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date: _____

Signature

4) BID BOND

We, the Contractor, _____ as principal (“Principal”), and _____, as surety (“Surety”), are firmly bound unto the Fortuna Union High School District (“District”) in the penal sum of ten percent (10%) of the total amount of the bid of the Principal submitted to the District for the work described below for the payment of which sum in lawful money of the United States, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by this agreement.

Whereas, the Principal has submitted the accompanying bid (“Bid”) dated _____, for the following project (“Project”): Proposition 39 LED Lighting Retrofit, Phase II.

Now, therefore, if the Principal does not withdraw its Bid within the period specified, and if the Principal is awarded the Contract and within the period specified fails to enter into a written contract with District, in accordance with the Bid as accepted, or fails to provide the proof of required insurance, the performance bond and/or the payment bond by an admitted surety within the time required, or in the event of unauthorized withdrawal of the Bid, if the Principal pays the District the difference between the amount specified in the Bid and the amount for which District may otherwise procure the required work and/or supplies, if the latter amount is in excess of the former, together with all related costs incurred by District, then the above obligation shall be void and of no effect. Otherwise, the Principal and Surety shall pay to the District the penal sum described above as liquidated damages.

Surety, for value received, hereby agrees that no change, extension of time, alteration or addition to the term of the Contract or the call for bids, or to the work to be performed thereunder, or the Specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition.

In witness whereof the above-bound parties have executed this instrument under their several seals this _____ day of _____, 2017, the name and corporate seal of each corporate Party being hereunder affixed and these presents duly signed by its undersigned representative, pursuant to the authority of its governing body.

(Corporate Seal)

Principal/Contractor

By _____

Title: _____

(Corporate Seal)

Surety

Attach Attorney-In-Fact Certificate

By _____

Title _____

To be signed by Principal and Surety and Acknowledgment and Notary Seal to be attached.

5) BIDDER'S QUESTIONNAIRE

for

Proposition 39 LED Lighting Retrofit, Phase II Project

TO THE BIDDER:

In making its award, the Governing Board will take into consideration the Bidder's experience, financial responsibility and capability. The following questionnaire is a part of the bid. Any bid received without this completed questionnaire may be rejected as nonresponsive. The Board will use, but will not be limited to, the information provided herein for evaluating the qualifications and responsibility of the bidder and the bidder's organization to carry out satisfactorily the terms of the Contract Document. The questionnaire must be filled out accurately and completely and submitted with the bid. Any errors, omissions or misrepresentation of information may be considered as a basis for the rejection of the bid and may be grounds for the termination of any contract executed as a result of the bid.

A. Description of Bidder's Organization

1. Firm Name _____

2. Address _____

3. Telephone Number _____

4. Type of Organization

a. Corporation? Yes ____ No ____

If yes, list the officers and positions, and the State in which incorporated.

If the Bidder corporation is a subsidiary, give name and address of parent corporation.

b. Partnership? Yes ____ No ____

If yes, list partner names and addresses

General Partners:

Limited Partners:

c. Individual Proprietorship? Yes ____ No ____

If yes, list name and address of proprietor:

B. Nature of Operations

1. How long have you been engaged in the contracting business under your present business name? _____

2. How many years of experience does your business have in construction work similar to that called for under this bid? _____

3. Have you now contracts, or have you ever contracted, to provide construction for any school district, community college district or county office of education in the State of California? Yes ____ No ____

a. If "yes," on a separate attached sheet, provide the following information for all construction projects you have had with school districts, community college districts and county offices of education during the last four (4) years:

1. Year contract awarded
2. Type of work
3. Contract completion time called for/actual completion time
4. Contract price
5. For whom performed, including person to call for a reference and telephone number
6. Location of work
7. Number of stop notices filed
8. For each contract, list any lawsuits filed relating to that contract in which you were a defendant or plaintiff
9. Amount of liquidated damages assessed.

b. On a separate attached sheet, provide the following information for all construction contracts of a similar nature as called for in this bid that you have had with entities other than school districts, community college districts and county offices of education during the last four (4) years:

1. Year contract awarded

2. Type of work
 3. Contract completion time called for/actual completion time
 4. Contract price
 5. For whom performed, including person to call for reference and phone number
 6. Location of work
 7. Number of stop notices filed
 8. For each contract list any lawsuits filed relating to that contract in which you were a defendant or plaintiff
 9. Amount of liquidated damages assessed.
- c. For each construction contract that you have failed to complete within the contract time in the last four years please state the reasons for the untimely performance.

C. Financial and Credit Data

1. If your bid is considered for award, and if requested by the District, will you supply the following data? Yes ____ No ____
 - a. Names and addresses of any banks where you regularly do business.
 - b. The names and addresses of any banks, finance companies, dealers, suppliers, or others where you have notes or loans.
 - c. Give credit references, including at least three trade or industry suppliers with whom you regularly deal.
2. Will you submit on request a balance sheet for the past three (3) years?
Yes ____ No ____
3. Where have you engaged in the construction business, or any other type of business, in the last five years?

<u>Name of Business</u>	<u>Location</u>	<u>Type of Business</u>	<u>Years in Business</u>
-------------------------	-----------------	-------------------------	--------------------------

If any of the business endeavors referred to above are no longer operating, or you are no longer associated with them, please give brief details:

4. The following surety companies may be contacted as references as to the financial responsibility and general reliability of the bidder:

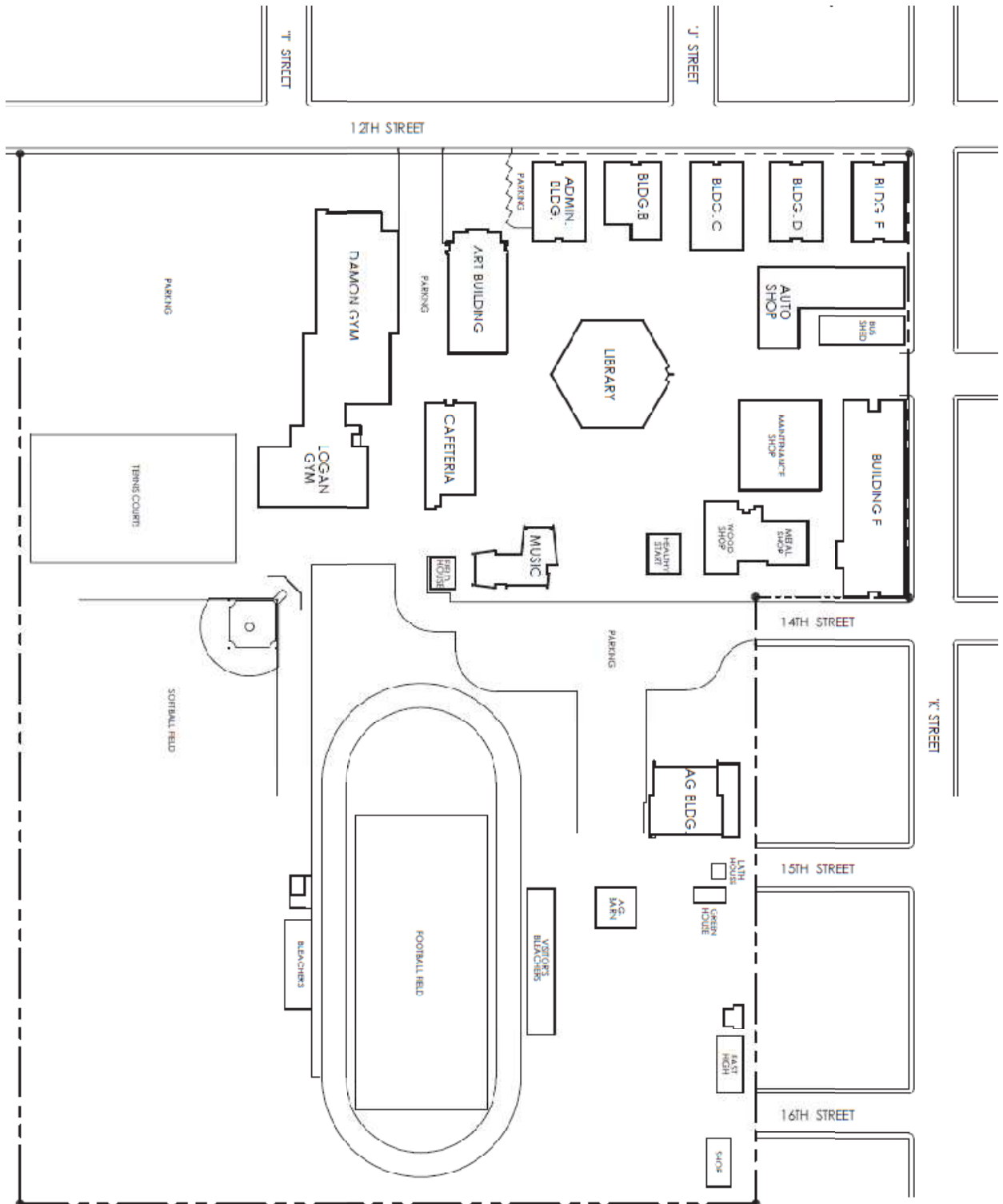
<u>Surety Name</u>	<u>Contact Person</u>	<u>Phone Number</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

I certify under penalty of perjury that the foregoing is true and correct. Executed at _____, California, on _____, 2017.

Signature of Bidder _____

Name (*print*) _____

Appendix 1 – Fortuna Union High School District Office Site Map



Appendix 2- 2017-2018 Fortuna Union High School Calendar

Fortuna / East High School

2017-2018 School Calendar

Board Approved 2/16/2017

School Month	Mon	Tues	Wed	Thur	Fri	Days Taught	
					(11)		8/11 Staff Duty Day
August 14 To September 8	14 21 28	15 22 29	16 23 30	17 24 31	18 25 1		8/14 Students Start
FIRST MONTH	[4]	5	6	7	8	19	9/4 Labor Day – No School
September 11 To October 6	11 18 25	12 19 26	13 20 27	14 21 28	15 22 29		
SECOND MONTH	2	3	4	5	6	20	
October 9 To November 3	9 16 23	10 17 24	11 18 25	12 19 26	13 20 27		
THIRD MONTH	30	31	1	2	3	20	
November 6 To December 1	6 13 20	7 14 21	8 15 [22]	9 16 [23]	[10] 17 [24]		11/10 Veteran's Day – No School
FOURTH MONTH	27	28	29	30	1	14	11/20-24 Thanksgiving Holiday Week
December 4 To December 29	4 11 18	5 12 19	6 13 20	7 14 21	8 15 22		12/25/2016 – 1/5/2017 Winter Break (P1 Report)
FIFTH MONTH	[25]	[26]	27	28	29	15	
January 1 To January 26	[1] 8 [15]	2 9 16	3 10 17	4 11 18	5 12 19		1/15 Martin Luther King Day
SIXTH MONTH	22	23	24	25	26	14	
January 29 To February 23	29 5 12	30 6 13	31 7 14	1 8 15	2 9 16		
SEVENTH MONTH	[19]	[20]	21	22	23	15	2/19-2/23 Presidents' Holiday Week
February 26 To March 23	26 5 12	27 6 13	28 7 14	1 8 15	2 9 16		
EIGHTH MONTH	19	20	21	22	23	20	(P2 Report)
March 26 To April 20	26 2 9	27 3 10	28 4 11	29 5 12	30 6 13		
NINTH MONTH	16	17	18	19	20	15	4/16-4/20 Spring Break
April 23 To May 18	23 30 7	24 1 8	25 2 9	26 3 10	27 4 11		
TENTH MONTH	14	15	16	17	18	20	
May 21 To June 16	21 [28]	22 29	23 30	24 31	25 (1)		5/26 Memorial Day – No School 5/31 Last day of School (Annual Report)
ELEVENTH MONTH						8	

1st Quarter:
2nd Quarter:
3rd Quarter:
4th Quarter:
Total

Days
Days
Days
Days
180 Days

() Staff Duty Days (2)
• End of Quarter
[] Holiday
■ Local Recess

Appendix 3 – Itemized Scope of LED Retrofit for Fortuna Union High School District:

Fortuna Union High School Interior Fixtures						
Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
1	A: Administrative Building	R1: Northwest Conference Room	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
2	A: Administrative Building	R2: NW Office, NW Wing	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
3	A: Administrative Building	R3: N Office, NW Wing	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
4	A: Administrative Building	R4: E Office, NW Wing	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
5	A: Administrative Building	R5: NW Wing Entry	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
6	A: Administrative Building	R14: West Hallway	T8 2' 16W electronic ballast (NPO) 2 lamp troffer	4	2' 7W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
7	A: Administrative Building	R6: Principal's Asst's Office	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
8	A: Administrative Building	R7: Principal's Office	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
9	A: Administrative Building	R8: Principal's Bathroom	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
10	A: Administrative Building	R9: Principal's Coat Closet	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
11	A: Administrative Building	R10: Storage off Principal's Asst. Office	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
12	A: Administrative Building	R11: Mail/Filing Room	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
13	A: Administrative Building	R12: Storage off Filing Room (E Room)	T8 4' 32W electronic ballast (NPO) 2 lamp	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
14	A: Administrative Building	R13: Bathroom off Filing Room	T8 4' 32W electronic ballast (NPO) 2 lamp	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
15	A: Administrative Building	R15: NW Office, off south side of Main Entry (central wing)	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
16	A: Administrative Building	R16: SW office, SW side of central wing	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3
17	A: Administrative Building	R17: Hallway off Saturday School	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
18	A: Administrative Building	R33: Office, SE side central wing	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
19	A: Administrative Building	R19: Closet, Central Wing	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
20	A: Administrative Building	R18: E Office, Central Wing	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
21	A: Administrative Building	R20: South Restroom, E Wing	T8 4' 32W electronic ballast (NPO) 2 lamp	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
22	A: Administrative Building	R21: North Restroom, E Wing	T8 4' 32W electronic ballast (NPO) 2 lamp	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
23	A: Administrative Building	R22: Conference Room/Lounge, E Wing	T8 4' 32W electronic ballast (NPO) 2 lamp box	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
24	A: Administrative Building	R23: Southernmost Office, E Wing	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
25	A: Administrative Building	R24: Second Southern office, East Wing	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
26	A: Administrative Building	R25: Third Southern office, E Wing	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
27	A: Administrative Building	R26: Fourth Southern Office, E Wing	T8 2' 18W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
28	A: Administrative Building	R27: Second Northern Office, E Wing	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
29	A: Administrative Building	R27A: First Northern Office, E Wing	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
30	A: Administrative Building	R28: Storage (E Wing)	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
31	A: Administrative Building	R29: E Wing Hall	T8 2' 32W electronic ballast (NPO) 2 lamp troffer	4	2' 7W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
32	A: Administrative Building	R30: Main Entry + Hall	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	25	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	25
33	A: Administrative Building	R31: Copy Room	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
34	A: Administrative Building	R32: Meeting Room off Main Entry	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
35	B: Building B	R1: Hallways	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	7	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	7
36	B: Building B	R2: Women's Restroom	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
37	B: Building B	R3: Men's Restroom	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3
38	B: Building B	R4: Custodial Closet	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
39	B: Building B	R5: Clothing/Foods Lab	T8 4' 32W electronic ballast (NPO) 3 lamp	20	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	20
40	B: Building B	R6: Classroom 4	T8 4' 32W electronic ballast (NPO) 3 lamp	21	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	21
41	B: Building B	R7: Office (B/W Classroom 4 + Food Lab)	T8 4' 32W electronic ballast (NPO) 2 lamp	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
42	B: Building B	R8: Office 2 (Southern, B/W Classroom 4 + Food Lab)	T8 4' 32W electronic ballast (NPO) 2 lamp	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
43	C: Building C	R1: Hallway	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	14	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	14
44	C: Building C	R2: Century Hall/Classroom 5	T8 4' 32W electronic ballast (NPO) 2 lamp	16	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	16
45	C: Building C	R3: Custodial A	T8 4' 32W electronic ballast (NPO) 2 lamp	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
46	C: Building C	R4: Custodial B	T8 4' 32W electronic ballast (NPO) 2 lamp	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
47	C: Building C	R5: Classroom 1	T8 4' 32W electronic ballast (NPO) 2 lamp	8	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	8
48	C: Building C	R6: Classroom 2	T8 4' 32W electronic ballast (NPO) 2 lamp	16	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	16

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
49	C: Building C	R7: Classroom 3	T8 4' 32W electronic ballast (NPO) 2 lamp	8	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	8
50	C: Building C	R8: Classroom 4	T8 4' 32W electronic ballast (NPO) 2 lamp	8	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	8
51	C: Building C	R9: Men's RR	T8 4' 32W electronic ballast (NPO) 2 lamp	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3
52	C: Building C	R10: Women's RR	T8 4' 32W electronic ballast (NPO) 2 lamp	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3
53	D: Building D	R1: Classroom 1	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
54	D: Building D	R1: Classroom 1	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
55	D: Building D	R2: Classroom 2	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
56	D: Building D	R2: Classroom 2	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
57	D: Building D	R3: Classroom 3	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
58	D: Building D	R3: Classroom 3	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
59	D: Building D	R4: Classroom 4	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
60	D: Building D	R4: Classroom 4	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
61	D: Building D	R5: Classroom 5	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
62	D: Building D	R5: Classroom 5	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
63	D: Building D	R6: Classroom 6	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
64	D: Building D	R6: Classroom 6	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
65	D: Building D	R7: Men's RR Vestibule	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
66	D: Building D	R8: Men's Main RR	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
67	D: Building D	R9: Men's Aux. Restroom (E RR)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
68	D: Building D	R10: Janitorial Closet (off hall)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
69	D: Building D	R11: Women's RR Vestibule	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
70	D: Building D	R12: Women's Main RR	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
71	D: Building D	R13: Women's Aux. RR (E RR)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
72	D: Building D	R14: Hallway	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
73	E: Building E	R1: Classroom 1	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
74	E: Building E	R1: Classroom 1	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
75	E: Building E	R2: Classroom 2	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
76	E: Building E	R2: Classroom 2	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
77	E: Building E	R3: Classroom 3	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
78	E: Building E	R3: Classroom 3	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
79	E: Building E	R4: Classroom 4	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
80	E: Building E	R4: Classroom 4	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
81	E: Building E	R5: Classroom 5	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
82	E: Building E	R5: Classroom 5	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
83	E: Building E	R6: Classroom 6	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
84	E: Building E	R6: Classroom 6	T8 4' 32W electronic ballast (NPO) 2 lamp box	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
85	E: Building E	R7: Men's RR Vestibule	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
86	E: Building E	R8: Men's Main RR	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
87	E: Building E	R10: Men's Janitorial Closet (off hall)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
88	E: Building E	R11: Women's RR Vestibule	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
89	E: Building E	R12: Women's Janitorial Closet (off hall)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
90	G: Maintenance	R1: Main Shed	T12 8' 60W magnetic ballast (NPO) 2 lamp	18	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers; Replace tombstones with suitable retrofit kit (EPCO 14050 or equivalent)	18
91	G: Maintenance	R1: Main Shed	T8 4' 32W electronic ballast (NPO) 2 lamp strip	9	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	9
92	G: Maintenance	R1: Main Shed	400W Metal Halide High Bay	1	LED 126W High Bay (Lithonia IBL 12L Bay Light Series or equiv.)	1
93	G: Maintenance	R2: "Wood" Room	T8 4' 32W electronic ballast (NPO) 2 lamp industrial	13	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	13
94	G: Maintenance	R3: N Closet (Under Balcony)	T12 8' 60W magnetic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers; Replace tombstones with suitable retrofit kit (EPCO 14050 or equivalent)	1

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
95	G: Maintenance	R3: N Closet (Under Balcony)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
96	G: Maintenance	R4: S Closet (Adjacent to N Closet)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
97	G: Maintenance	R5: Bathroom 1	Incandescent			
98	G: Maintenance	R6: Bathroom 2	Incandescent			
99	G: Maintenance	R7: Balcony	T8 4' 32W electronic ballast (NPO) 2 lamp strip	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
100	G: Maintenance	R8: Lunchroom/Office	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
101	G: Maintenance	R9: IT/Server Room	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
102	G: Maintenance	R10: Parts Room	T8 4' 32W electronic ballast (NPO) 5 lamp	5	LED 126W High Bay (Lithonia IBL 12L Bay Light Series or equiv.)	5

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
103	H: Auto Shop	R1: Back Auto Shop	T8 4' 32W electronic ballast (NPO) 2 lamp suspended industrial	32	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	32
104	H: Auto Shop	R2: Front Auto Shop	T8 4' 32W electronic ballast (NPO) 2 lamp suspended industrial	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
105	H: Auto Shop	R2: Front Auto Shop	400W Metal Halide High Bay	9	LED 126W High Bay (Lithonia IBL 12L Bay Light Series or equiv.)	9
106	H: Auto Shop	R3: E Auto Shop Office	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
107	H: Auto Shop	R4: W Auto Shop Office	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
108	H: Auto Shop	R5: N. Auto Shop Classroom	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
109	H: Auto Shop	R6: E Auto Shop Bay	400W Metal Halide High Bay	1	LED 126W High Bay (Lithonia IBL 12L Bay Light Series or equiv.)	1
110	H: Auto Shop	R7: Parts Room	T8 4' 32W electronic ballast (NPO) 2 lamp strip	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
111	H: Auto Shop	R8: Hallway	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
112	H: Auto Shop	R9: Washroom and Hall	T8 4' 32W electronic ballast (NPO) 2 lamp strip	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
113	H: Auto Shop	R10: Men's RR	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
114	H: Auto Shop	R11: Storage Closet	T8 4' 32W electronic ballast (NPO) 4 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
115	H: Auto Shop	R12: Women's RR	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
116	H: Auto Shop	R13: Hallway by Psych/Speech	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
117	H: Auto Shop	R14: Office A (N)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
118	H: Auto Shop	R15: Office B (S)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
119	H: Auto Shop	R16: Filing Hallway	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
120	H: Auto Shop	R17: Bus Barn	T8 4' 32W electronic ballast (NPO) 3 lamp industrial	26	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	26

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
121	H: Auto Shop	R17: Bus Barn	T8 4' 32W electronic ballast (NPO) 2 lamp suspended industrial	8	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	8
122	H: Auto Shop	R18: Parts Room	T8 4' 32W electronic ballast (NPO) 2 lamp industrial	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
123	H: Auto Shop	R19: Office C (By Parts Room)	T8 4' 32W electronic ballast (NPO) 2 lamp	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
124	H: Auto Shop	R20: Office D (SW Office in Bus Shop Wing)	T8 4' 32W electronic ballast (NPO) 2 lamp	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
125	H: Auto Shop	R21: Office E (SE Office in BSW)	T8 4' 32W electronic ballast (NPO) 2 lamp	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
126	I: Metal Shop	R1: Main Shop Floor	T8 4' 32W electronic ballast (NPO) 3 lamp	64	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	64

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
127	I: Metal Shop	R2: Office	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
128	I: Metal Shop	R3: Tool Room	T8 4' 32W electronic ballast (NPO) 2 lamp industrial	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
129	I: Metal Shop	R4: Side Shop	T8 8' 59W electronic ballast (NPO) 2 lamp industrial	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
130	I: Metal Shop	R5: Metal Storage	T8 4' 32W electronic ballast (NPO) 2 lamp industrial	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
131	I: Metal Shop	R6: Outer Hallway/Foyer	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
132	I: Metal Shop	R7: Janitorial Closet	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
133	I: Metal Shop	R8: Storage	T8 4' 32W electronic ballast (NPO) 2 lamp	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
134	J: Wood Shop	R1: Main Floor	T8 4' 32W electronic ballast (NPO) 3 lamp	60	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	60
135	J: Wood Shop	R1: Main Floor	T8 4' 32W electronic ballast (NPO) 2 lamp strip	11	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	11
136	J: Wood Shop	R2: Finish Room	T8 4' 32W electronic ballast (NPO) 6 lamp troffer	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
137	J: Wood Shop	R3: Wood Supply	T8 4' 32W electronic ballast (NPO) 2 lamp industrial	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
138	J: Wood Shop	R4: Lumber Room	T8 4' 32W electronic ballast (NPO) 2 lamp industrial	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
139	J: Wood Shop	R5: Office	T8 4' 32W electronic ballast (NPO) 2 lamp industrial	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
140	J: Wood Shop	R6: Project Room A (by office)	T8 4' 32W electronic ballast (NPO) 2 lamp industrial	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
141	J: Wood Shop	R7: Project Room B	T8 4' 32W electronic ballast (NPO) 2 lamp industrial	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
142	K: District Office	R1: Main Office	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	10	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	10
143	K: District Office	R2: File Room	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
144	K: District Office	R3: Large Office	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
145	K: District Office	R4: Conference Room	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3
146	K: District Office	R5: Corey's Office	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
147	K: District Office	R6: Lunch Room	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
148	K: District Office	R7: Bathroom	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
149	M: Cafeteria	R1: Main Room	T8 4' 32W electronic ballast (NPO) 3 lamp wrap	84	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	84
150	M: Cafeteria	R2: Kitchen	T8 4' 32W electronic ballast (NPO) 2 lamp box	12	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	12

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
151	M: Cafeteria	R3: Kitchen Office A (South)	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
152	M: Cafeteria	R4: Kitchen Office B (North)	T8 4' 32W electronic ballast (NPO) 2 lamp box	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
153	M: Cafeteria	R5: Kitchen Storage	T8 4' 32W electronic ballast (NPO) 2 lamp box	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
154	M: Cafeteria	R6: Freezer Room	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3
155	M: Cafeteria	R7: East Classroom	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	8	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	8
156	M: Cafeteria	R8: East Wing Office	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
157	M: Cafeteria	R9: East Wing WRR	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
158	M: Cafeteria	R9: East Wing MRR	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
159	M: Cafeteria	R10: East Wing Main Space	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	6	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	6
160	N: Little Theater	R1: Backstage	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	18	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	18
161	N: Little Theater	R2: Technology Wing	T8 4' 32W electronic ballast (NPO) 3 lamp wrap	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
162	N: Little Theater	R2: Technology Wing	T8 4' 32W electronic ballast (NPO) 1 lamp strip	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
163	N: Little Theater	R2: Technology Wing	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
164	O: Music Building	R1: Hallway	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	8	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	8
165	O: Music Building	R2: Music Library	T8 4' 32W electronic ballast (NPO) 2 lamp box	4	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	4
166	O: Music Building	R3: Janitorial Closet	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
167	O: Music Building	R4: Storage	Inc.			
168	O: Music Building	R5: Restroom	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
169	O: Music Building	R6: Practice Room (SW)	T8 4' 32W electronic ballast (NPO) 2 lamp box	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
170	O: Music Building	R7: SE Office	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
171	O: Music Building	R8: Choir Room (S)	T8 4' 32W electronic ballast (NPO) 2 lamp box	43	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	43
172	O: Music Building	R9: Storage (N Hallway)	T8 4' 32W electronic ballast (NPO) 2 lamp box	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
173	O: Music Building	R10: Practice Room (SE)	T8 4' 32W electronic ballast (NPO) 2 lamp box	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
174	O: Music Building	R11: Practice Room (NE)	T8 4' 32W electronic ballast (NPO) 2 lamp box	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
175	O: Music Building	R12: Practice Room (NW)	T8 4' 32W electronic ballast (NPO) 2 lamp box	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
176	O: Music Building	R13: North Office	T8 4' 32W electronic ballast (NPO) 2 lamp box	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
177	O: Music Building	R14: Ensemble Room	T8 4' 32W electronic ballast (NPO) 2 lamp box	10	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	10
178	O: Music Building	R15: Instrument Storage	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
179	O: Music Building	R16: Band Room	T8 4' 32W electronic ballast (NPO) 2 lamp box	54	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	54
180	Q: Agriculture Shop	R1: S Classroom	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	28	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	28
181	Q: Agriculture Shop	R2: N Classroom	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	28	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	28

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
182	Q: Agriculture Shop	R3: S Classroom Closet	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
183	Q: Agriculture Shop	R4: N Classroom Closet	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
184	Q: Agriculture Shop	R5: W Hallway/Entry	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
185	Q: Agriculture Shop	R6: Women's RR	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1
186	Q: Agriculture Shop	R7: Men's RR	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
187	R: Agriculture Barn	R1: Main Barn	T12 8' 60W magnetic ballast (NPO) 2 lamp industrial	8	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers; Replace tombstones with suitable retrofit kit (EPCO 14050 or equivalent)	8
188	S: Art Building	R1: Main Art Class	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	18	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	18
189	S: Art Building	R2: Office off MAC	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
190	S: Art Building	R3: Supply room off MAC	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
191	S: Art Building	R4: Storage Room off MAC	Inc.			
192	S: Art Building	R5: Digital Art Room	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	18	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	18

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
193	S: Art Building	R6: Darkroom	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	2	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	2
194	S: Art Building	R7: Vestibule and Film Room	T8 4' 32W electronic ballast (NPO) 2 lamp wrap	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3
195	S: Art Building	R8: Ceramics Room	T8 4' 32W electronic ballast (NPO) 2 lamp troffer	21	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	21
196	S: Art Building	R9: North Hallway	T8 4' 32W electronic ballast (NPO) 2 lamp	8	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	8
197	S: Art Building	R10: Women's RR	T8 4' 32W electronic ballast (NPO) 2 lamp	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3

Line No.	Area	Room	Existing Fixtures	Qty of fixtures	Proposed Fixtures	Qty of fixtures
198	S: Art Building	R11: Men's RR	T8 4' 32W electronic ballast (NPO) 2 lamp	3	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	3
199	S: Art Building	R12: Storage off Ceramics	T8 4' 32W electronic ballast (NPO) 2 lamp	1	4' 12W TLED, 5000K (Philips Instantfit or equivalent); Replace existing ballasts with compatible LED drivers	1

Appendix 4: Summary Table for FUHS Phase II Lighting Project

Summary of Counts from Itemized Scope of LED Retrofit								
Fixture Count	1 lamp driver	2 lamp driver	3 lamp driver	4 lamp driver	New Highbays	12 watt TLEDs	2' 2 lamp driver	7 watt TLEDs
1229	4	894	287	32	16	2781	9	18