

SECTION 00001



TENDER NO. 2022-1604

MCMATH SECONDARY SCHOOL
4251 GARRY STREET, RICHMOND, BC

MCMATH SECONDARY LIGHTING UPGRADE

School District No. 38 (Richmond)
5200 River Road
Richmond, B.C. V7C 1A4
July 1, 2022

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SECTION 00004

School District No. No.38 (Richmond)
5200 River Road
Richmond, B.C.
V7C 1A4

July 1, 2022

TO WHOM IT MAY CONCERN:

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

This opportunity is for qualified electrical contractors. The tender is for an interior and exterior lighting and lighting controls upgrade at **McMath Secondary, 4251 Garry Street, Richmond, BC.**

Qualifications: As this project is being conducted in partnership with BC Hydro's Power Smart Program, all contractors must be members in good standing with the BC Hydro Power Smart Alliance.

A **MANDATORY site visit** for contractors shall be conducted, starting at the front entrance lobby of McMath Secondary School at 3:00 p.m. PST on **Tuesday July 5, 2022**. All bidders will be responsible for recording their presence by signing an attendance sheet. Tenders will only be accepted from those that have inspected the site at that time.

Submissions (closing location) are to be done electronically via email to purchasing@sd38.bc.ca.

Proposals will be received until the **Proposal Closing of 2:00 p.m. local time on Tuesday, August 2, 2022** – time of receipt will be determined by the time stamp at the closing location.

The lowest or any bid may not necessarily be accepted. A 10% Bid Bond or a certified cheque in the amount of 10% of the bid amount payable to School District No. 38 (Richmond) must accompany the Tender. The successful bidder shall be required to provide a 50% performance bond within 10 days of award of contract.

All enquiries related to this Request for Tender ("RFT") should be directed to the **Purchasing Department, Email purchasing@sd38.bc.ca**. Make requests for information to the Richmond School District No. 38 ("The District") in writing no later than five (5) working days prior to the closing of the RFT, by email, for interpretation of the RFT documents or inquiries of any nature relating thereto. The District will consider all such inquiries, inform the proponent, and any clarification or revision to the RFT documents resulting from such inquiries will be given to all proponents by addendum if required.

Yours truly,

Jonathan Ho
Manager, Energy & Sustainability
School District No.38 (Richmond)

RE: TENDER NO. 2022-1604 MCMATH SECONDARY UPGRADE**INSTRUCTIONS TO BIDDERS****PAGE 1 OF 9****1 Definitions**

- Owner: School District No. 38 (Richmond)
Contractor: Successful bidder
Consultant: Quantum Lighting, Inc.
Work: Is defined by the Scope of Work
Contract: CCDC2e, 2008 Stipulated Price Contract and all contract documents, including:
 - Instructions to Bidders
 - Form of Tender (including Schedules No. 1-6)
 - Appendices “A” to “D”
 - Supplementary Conditions
 - Specifications as listed on the Document Index
 - Addenda as issued
Register: This project is a BC Hydro Power Smart project. The successful bidder must be enrolled in their Power Smart Alliance Program before submitting a tender.

2 Scope of Work

This project is being undertaken as an energy reduction initiative with potential incentive funding by BC Hydro Power Smart. The achievement of the planned energy savings is a key element of the project.

The tender involves the removal of existing lighting fixtures, the installation of new lighting fixtures, retrofitting existing lighting fixtures and installation of new lighting controls and associated electrical wiring.

3 Tender Instructions

- A. Submissions (closing location) are to be done electronically via email to purchasing@sd38.bc.ca.

Submissions are to include a duly executed Proposal with all other documentation as called for in the RFT.

Proposals will be received until the **Proposal Closing of 2:00 p.m. local time on Tuesday, August 2, 2022** - time of receipt will be determined by the time stamp at the closing location.

Any proposal received after the above-noted time will be rejected without further consideration.

Faxed, mailed or couriered proposals will not be accepted.

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Amendments to your proposal can be emailed prior to the Proposal Closing. An authorized signatory of the company must sign all amendments. All monetary revisions shall be stated as an addition or reduction to the Proposed Fee.

System Limitation for Email Submissions: Please note that there are restrictions to the size and type of documents which are acceptable.

The District assumes no risk, makes no guarantee, warranty or representation whatsoever, and shall have no responsibility or liability, whether based on negligence or other torts, contract, warranty, strict liability or otherwise, for or in connection with (i) the timely delivery of any information or documentation, including, without limitation, these RFT Documents, whether electronically, or otherwise, in connection with this RFT; (ii) the timely receipt of any Proposal, revisions, notice of withdrawals, or any other information or documentation from any Proponent or any person, or; (iii) the working order, functioning or malfunctioning, of electronic transmission or any electronic information system.

- B. **Tender must be submitted on the Form of Tender included in these documents and completed in the spaces provided. The contract price must cover the complete cost of carrying out the work.**
- C. **Bidders must complete and include the Form of Tender Schedules No.1 to 6. Failure to do so may result in their tender not being considered.**
- D. There will be no public opening of the proposals received. Proposals will be opened privately by the District after the Closing. No public announcement of the contents of any proposal will be made at any time.
- E. In carrying out these works the Contractor will act as a Prime Contractor and must agree to keep the Owner, and the Consultant indemnified against any and all claims, actions or demands that may be brought, made or arise in respect of anything done or omitted to be done by its' employees who shall be and remain at all times and for all purposes, the servants or employees of the Contractor.
- F. Each tender must bear the signature of legal signing authority. In the case of a Company tendering, the tender may also bear the corporate seal of the Company.
- G. The addition to or changing of any words in this Form of Tender by the bidder or failure to comply with and complete all items may be cause for rejection without consideration of the tender.
- H. All tenders, after closing time and date, become the property of the Owner.

4 Examination by Bidder

- A. Each bidder shall study the contract, including specifications and is encouraged to visit the site of the work before submitting a tender and must be satisfied by first-

RE: TENDER NO. 2022-1604 MCMATH SECONDARY UPGRADE**INSTRUCTIONS TO BIDDERS****PAGE 3 OF 9**

hand examination as to the local conditions to be met with during construction and conduct of the Work.

- B. Claims which result from a misunderstanding of the actual conditions of the site shall not be considered after submission of the tender.
- C. Each bidder is responsible for informing themselves as to the contents and requirements of this tender. Each bidder is solely responsible to ensure that they have obtained and considered all information necessary to understand the requirements of the tender and to prepare and submit their tender. The Owner will not be responsible for any loss, damage or expense incurred by a bidder as a result of any inaccuracy or incompleteness in this tender, or as a result of any misunderstanding or misinterpretation of the terms of this tender on the part of any bidder.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY UPGRADE**INSTRUCTIONS TO BIDDERS****PAGE 4 OF 9****5 Enquiries**

- A. All general and technical enquiries relating to the specifications or form of tender shall be directed in writing to Jeff Jang, Assistant Purchasing Manager, by email to purchasing@sd38.bc.ca .
- B. Electronic versions of the Form of Tender documents in WORD and Unit Price Sheet in EXCEL format are available by e-mail request and are intended to simplify tender preparation.
- C. Any verbal representations, promises, statements or advice made by any employees of the Owner, other than those made through the office of the Assistant Purchasing Manager, School District No.38 (Richmond), should not be relied upon.

6 Omissions and Discrepancies

- A. Should a bidder find omissions from or discrepancies in the contract specifications or other documents, or be in doubt as to their meaning, the bidder should notify purchasing@sd38.bc.ca no later than 48 hours prior to the tender closing. Written instruction to all bidders may be issued in the form of an addendum, which shall become part of the contract and shall be covered in the contract price.
- B. No oral interpretations made to a bidder as to the meaning of the contract, including all specifications or other documents shall be considered binding. All request for an interpretation shall be made in writing and forwarded to Jeff Jang, Assistant Purchasing Manager, by email to purchasing@sd38.bc.ca .
- C.

7 Adjustments

- A. A bidder may without prejudice to itself, withdraw, modify or correct a tender after it has been deposited with the Owner, provided the request for withdrawal, modification or correction is filed with the Owner in writing before the time set for the tender closing. The original tender, as modified by written communication, will be considered as the tender submitted by the bidder.
- B. Revisions prior to opening of tender may be forwarded to Jeff Jang, Assistant Purchasing Manager, by email to purchasing@sd38.bc.ca .
- C. No bidder will be permitted to withdraw a tender between the closing time for receipt of the tenders and the actual award of the contract, unless the award is delayed, for a period exceeding ninety (90) calendar days.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY UPGRADE**INSTRUCTIONS TO BIDDERS****PAGE 5 OF 9****8 Execution of Agreement**

- A. The bidder to whom the award is made shall enter into the Contract Agreement within thirty (30) days after being notified in writing by the Owner of the acceptance of the tender.
- B. The execution of agreement may be subject to the BC Hydro Pre-approval Power Smart Incentive application.

9 Terms

- A. If any terms, covenants and conditions contained in the tender documents conflict with anything in the Agreement, the terms, covenants, and conditions in the tender documents apply.

10 Sub-Contractors

- A. The Bidder shall list in the Form of Tender (Schedule No. 3 – Sub-contractors) the names of the sub-contractors to be engaged, if any. It is a BC Hydro requirement that subcontractors performing work representing more than 10% of the project value must be registered with the BC Hydro Power Smart Alliance before beginning the work. No change of sub-contractors will be permitted following the opening tenders without the written permission of the Owner.

11 Financial Security

- A. A 10% Bid Bond or a certified cheque in the amount of 10% of the bid amount payable to School District No. 38 (Richmond) must accompany the Tender. The Bidder shall execute the Agreement between the Owner and Contractor and deposit with the Owner a Performance Bond in the amount of fifty percent (50%) of the Tender Price within 10 days of the date of the Notice of Acceptance, such time limit being extended only with the written approval of the Owner.
- B. The Bidder will provide Commercial General Liability Insurance, as outlined in Section 00500 of the tender document, if the tender price is over \$50,000.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY UPGRADE**INSTRUCTIONS TO BIDDERS****PAGE 6 OF 9****12 Prime Contractor Designation**

- A. By submitting a tender response, the bidder agrees to assume all the responsibilities of a Prime Contractor as outlined in the Worker's Compensation Act and Regulations. The Contractor shall submit to the Owner upon acceptance of the tender a completed Prime Contractor Designation Form as shown in Appendix "A", which shall also be attached to and form part of the Agreement between the Owner and the Contractor.
- B. All materials delivered and services provided must be in accordance with all laws, regulations and requirements of B.C. Workers' Compensation Board and Occupational Health and Safety Legislation.
- C. Proof of W.C.B. registration must be submitted, along with proof of up-to-date assessment payment (a "Clearance Letter"), prior to commencement of work.

13 Work Schedule

- A. The Contractor must establish a work schedule for the work within seven (7) days of notification of acceptance. The work should start when the contract is signed and the schedule is established in conjunction with, and to the complete satisfaction of the Owner.
- B. The Contractor will be required to take whatever measures are necessary to complete the work in compliance with the established work schedule at no additional cost to the Owner.
- C. Substantial Completion must be achieved by **February 28, 2023**.

14 Rules and Wages

- A. In tendering for this work, and when called upon to enter into an agreement with the Owner, the Contractor and sub-contractors will be bound to comply with all laws, statutes and municipal bylaws pertaining to the work.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY UPGRADE**INSTRUCTIONS TO BIDDERS****PAGE 7 OF 9****15 Pricing**

- A. The Price shown as Contract Price on the Form of Tender, must include all duties, PST (excluding the GST), labour, materials, handling charges, transportation, disposal costs, installation costs, Prime Cost (PC) sum, permit costs, and all other charges incidental to the completion of the work.
- B. Where Prime Cost Sums have been stipulated for an item in the tender, it shall be the responsibility of the contractor to finalize the scope and firm price for the item with the Consultant prior to the start of work on that item, other than any necessary investigative work.

16 Payments

- A. Progress payment(s) to cover the ongoing materials/construction expenses will be verified by the Consultant and approved by the Owner.
- B. Final payment(s) will be authorized after the Certified Substantial Performance dates certified by the Consultant, less a lien holdback of 10% for 55 days. The Contractor and the Owner will be advised of the certified Substantial Completion dates, in writing, by the Consultant.

17 Protection of Public

- A. The Contractor is responsible for taking all reasonable precautions against injury to public and staff and will be liable for all claims resulting from any injury sustained as a result of the work.

18 Protection of Students & Staff

- A. The Contractor shall ensure that all staff working on Richmond School District sites are registered in the Criminal Records Review Program, administered by the Ministry of Public Safety and Solicitor General, either by submission to the Richmond School District of a Criminal Record Check Consent Form or by submission to the Richmond School District of a Criminal Record Check Sharing Consent Form.
- B. No individual may be assigned to work on school premises without prior approval by the Owner.
- C. Failure to observe the terms of this clause shall be considered a breach of contract which may result in termination or suspension of the contract and/or any other actions deemed appropriate at the discretion of the Owner.
- D. All interior lighting controls upgrades shall be performed outside of instructional hours.

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- E. The policy of School District No. 38 (Richmond) strictly prohibits the use of tobacco products on school district property.

19 Record Drawings:

- A. The Contractor shall keep a set of Scope of Work spreadsheets and one set of white print drawings on the project and enter all changes.
- B. The Contractor shall provide one set of Scope of Work spreadsheets and one set of white prints drawings with all marked changes of the "as built" work to the Consultant at the completion of the project.

20 Signs

No advertising signs or notices will be permitted on-site unless authorized by the Owner.

21 Owner's Acceptance of Tenders

- A. Notwithstanding any custom in the trade, the Owner reserves the right to, in its sole discretion, and according to its own judgment of its best interest:
- Reject any and all tenders;
 - Award the tender to other than the low bidder.
- B. The Owner is not liable for a bidder's costs in preparing a tender.
- C. The lowest or any tender will not necessarily be accepted.
- D. The right is reserved, as the interests of the School District No. 38 (Richmond) may require, to reject any or all tenders. The right is reserved, as the interests of the School District may require, to waive any minor informality or irregularity in tenders received. This Tender process is subject to executive funding and/or approval, and the Board reserves the right to eliminate portions of the services or to reject any or all Tenders.
- E. The award of this contract shall be based on the evaluation of the tenders by the School District No. 38 (Richmond) on any basis, including but not limited to the following criteria:
- The overall cost impact of the tender on the operations of the School District No. 38 (Richmond)
 - The reputation and experience of the Contractor and of the Contractor's staff to be allocated to the work
 - The technical credibility, financial resources, and environmental responsibility of the Bidder;
 - The School District No. 38 (Richmond)'s assessment of the capability of the Bidder and the Bidder's staff to supply the goods, services, or equipment

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- within the time frame required by the School District for the duration of the term;
- The best value to the School District based on quality, service, price, and any criteria set out herein based solely on the School District's assessment of the tender;
 - Additional criteria as set out in the Special Conditions and Specifications.
- F. The Contractor acknowledges and agrees that the School District No. 38 (Richmond) will not be responsible for any costs, expenses, losses, damage, or liability incurred by the Bidder as a result of or arising out of submitting a tender for the proposed Agreement, or due to the School District's acceptance or non-acceptance of their bid.

22 Ineligibility of Bids

It is essential that bids thoroughly address and complete each requirement identified in the quotation. At the Owner's sole discretion:

- Incomplete bids may be declared "non-responsive";
- Bids that are improperly signed, conditional, illegible, obscure, or contain arithmetical errors, erasures, alterations, or irregularities of any kind may be considered invalid;
- Where there is a discrepancy, written amounts shall take precedence over figure amounts.

23 Cancellation of Tender

- The Owner reserves the right to cancel this tender at any time and for any reason, and will not be responsible for any loss, damage, cost or expense incurred or suffered by any bidder as a result of that cancellation.

24 Accuracy of Information

- The Owner makes no representation or warranty; either express or implied, with respect to the accuracy or completeness of any information contained or referred to in this tender.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

FORM OF TENDER

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PROJECT: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

SUBMITTED BY:

TO:

School District No. 38 (Richmond)
5200 River Road
Richmond, B.C.
V7C 1A4

Attention: Jeff Jang, Purchasing Department
School District No. 38 (Richmond)

- 1 The undersigned bidder, having carefully read and examined the Instructions to Bidders, Form of Tender (including Schedules No. 1 to 6), the Agreement, General Conditions of the Agreement, Supplementary Conditions of the Agreement, Appendices "A" to "D" and Specifications and having carefully examined the locality and site of the work and having full knowledge of the work required and the materials to be furnished and used, tenders and offers to enter into a contract to complete the whole of the work and provide all necessary labour, plant, tools and materials, as set forth and in strict accordance with the specifications, drawings, and other contract documents for the Stipulated Price of:

_____ Dollars (\$_____)

The price tendered includes and covers all duties, labour and material costs, handling charges, transportation charges, disposal costs (other than lamp recycling), installation costs, Prime Cost (PC) sum, permit costs, bonding costs, and all other charges incidental to the completion of the work under this contract. The Provincial Sales Tax (PST) should be included and the Goods and Services Tax (GST) should not be included.

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- 2** The Bidder acknowledges receipt of the following Addenda to the Tender Documents:

<u>No.</u>	<u>Date</u>	<u>Pages</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

- 3** **Duration of Offer:**

The Bidder agrees and confirms that the tender shall remain open to acceptance and shall be irrevocable for a period of ninety (90) calendar days after the tender closing date.

- 4** **Commencement of Work and Total Performance:**

I/We confirm that notwithstanding any delay in the preparation and execution of the formal Agreement we are prepared to commence work on or after _____ and within _____ calendar days of receiving written notice of acceptance of tender. I/We further confirm the Certified Substantial Completion will be achieved within _____ calendar days of the commencement of work. **Substantial Completion must be achieved by February 28, 2023.**

- 5** The bidder understands and agrees that the Owner is not bound to accept the lowest or any tender is not accepted.

- 6** I (We) declare that no person, firm or company other than the one whose signature, or the signature of whose proper officers and seal are affixed below, has any interest in this tender or in the proposed contract to be taken. I (We) further declare that this tender is made without any connection, knowledge, comparison of figures, or arrangement with any other company, firm or person making a tender for the same work.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

FORM OF TENDER

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7 Post-Tender Acceptance Requirements:

If I (we) are notified of the acceptance of this tender, I (we) will:

- execute the Contract Agreement;
- furnish necessary insurance and WCB documents.

(Signature of Bidder)

(Signature of Witness)

Title: _____

Address: _____

If the bidder is a company, the tender must be signed in the name of the company by the duly authorized officer who shall also subscribe their own name and office. The seal of the company may also be affixed.

If the bidder is not a company, the tender shall be signed by an authorized member of the firm and his address given.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

FORM OF TENDER

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SCHEDULE NO. 1 – UNIT PRICES

Quantity	Luminaire Type	BF	Luminaire Type with BF	Lamp Type	Lamp Wattage	Lamps/ Luminaire	Ballasts/ Luminaire	Luminaire Description	Product Specification	Unit Price	Total Price
71	A2-LED-FP	N/A	A2-LED-FP	LED	29W	1	1	New: 2x4 Recessed Flat Panel LED (3,800 lm)	Lithonia: CPX 2X4 AL08 SWW7 M2		
21	A2-LED-FP-REL	N/A	A2-LED-FP-REL	LED	29W	1	1	New: 2x4 Recessed Flat Panel LED (3,800 lm)- Relocate	Lithonia: CPX 2X4 AL08 SWW7 M2		
756	A2-LED-FP-n	N/A	A2-LED-FP-n	LED	30.4W	1	1	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	Lithonia: EPANL 2x4 4000LM 80CRI 35K MIN1 NLIGHT MVOLT		
107	A2-LED-FP-REL-n	N/A	A2-LED-FP-REL-n	LED	30.4W	1	1	New: 2x4 Recessed Flat Panel LED (~4,000 lm)-nLight- Relocate	Lithonia: EPANL 2x4 4000LM 80CRI 35K MIN1 NLIGHT MVOLT		
1	A7-LED-FP-REL-n	N/A	A7-LED-FP-REL-n	LED	31W	1	1	New: 2x2 Flat Panel LED (3,000 lm)-nLight- Relocate	Lithonia: SPANL 2x2 3400LM 80CRI 35K MIN1 NLTAIR2		
93	C2-LED-OS	N/A	C2-LED-OS	LED	35W	1	1	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	Lithonia: BLWP4 40L ADPT E21 LP835 MSDPDT7		
9	E1	N/A	E1	LED	2W	1	0	New: Indoor Self-powered LED Exit Sign	Emergi-Lite: ECS1		
3	K2-LED-HC	N/A	K2-LED-HC	LED	197W	1	1	New: LED High-bay (24,000lm)	Lithonia: IBL-24L-W-MVOLT-LP835		
2	L24B	N/A	L24B	LED9.5W	9.5W	1	0	LED: 9.5W Dimmable (A19 retrofit) 2200-2700K	Philips: 9.5A19/2200-2700 DIM 6/1		
23	L29E	N/A	L29E	LED4.5W	4.5W	1	0	LED: 4.5W Dimmable Globe 2700K (G25 Med base)	Philips: 4.5G25/LED/827/ND 120V		
1	P4-GE	N/A	P4-GE	LED	13W	1	1	New: 4" Diameter Recessed LED Downlight Retrofit (1,000 lm)	GE: LRX-R4-10-35-MD		
175	P8-GE	N/A	P8-GE	LED	13W	1	1	New: 8" Diameter Recessed LED Downlight Retrofit (1000 lm)	GE: LRX-R8-10-35-MD		
29	P8-GE-GF	N/A	P8-GE-GF	LED	13W	1	1	New: 8" Diameter Recessed LED Downlight Retrofit (1000 lm)- Goof Ring	GE: LRX-R8-10-35-MD-GRRX8R10PTWT		
34	P10-GE	N/A	P10-GE	LED	29W	1	1	New: 10" Diameter Recessed LED Downlight Retrofit (~3000 lm)	GE: LRX-R10-30-35-MD		
72	R1-LED-HC	NBF	R1-LED-HC-NBF	F54T5LED	#N/A	4	1	Retrofit: T5HO driver, F54T5LED lamps (4)- High Ceiling	Driver: ICN-4S24-TLED-90C-2LS-G [1]; Lamps: Philips 24T5HO/46-840/835 [4]		
9	R9-LED	NBF	R9-LED-NBF	F32T8LED	9.5W	1	1	Retrofit: T8 HE ballast, F32T8 LED lamp (1)	Refer to Additional Product Specification Notes		
178	R10-LED	NBF	R10-LED-NBF	F32T8LED	9.5W	2	1	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	Refer to Additional Product Specification Notes		
57	R12-LED-HC	NBF	R12-LED-HC-NBF	F32T8LED	9.5W	3	1	Retrofit: T8 HE ballast, F32T8 LED lamps (3)- High Ceiling	Refer to Additional Product Specification Notes		
47	R12-DIM-LED-HC	NBF	R12-DIM-LED-HC-NBF	F32T8LED	14.0W	3	1	Retrofit: T8 dimming driver, F32T8 LED lamps (3)- High Ceiling	Driver: Philips IZT4P16, Lamps: Philips 13T8 LED/48-3500 IF DIM (3)		
20	R14-LED	NBF	R14-LED-NBF	F32T8LED	9.5W	4	1	Retrofit: T8 HE ballast, F32T8 LED lamps (4)	Refer to Additional Product Specification Notes		
24	R14-LED-HC	NBF	R14-LED-HC-NBF	F32T8LED	9.5W	4	1	Retrofit: T8 HE ballast, F32T8 LED lamps (4)- High Ceiling	Refer to Additional Product Specification Notes		
4	R16-LED	NBF	R16-LED-NBF	F32T8LED	9.5W	6	2	Retrofit: T8 HE ballast (2), F32T8 LED lamps (6)	Refer to Additional Product Specification Notes		
28	S4	N/A	S4	LED	22W	1	1	New: LED Wall Pack- Wide (3,200+ Lm; Forward Throw)	Acuity: TWX2-LED-AL0 40K-MVOLT-DDBTXD		
4	S7	N/A	S7	LED	40W	1	1	New: LED Canopy (Med.)	Signify: GC60-SCT-G2-SM-5-10-BZ		
7	W21	N/A	W21	N/A	0	0	0	Remove Fluorescent	n/a		
32	W21-T	N/A	W21-T	N/A	0W	0	0	Remove Fluorescent, Replace Ceiling Tile	n/a		
69	W22	N/A	W22	N/A	0	0	0	Remove/Install Cover Plate	n/a		
15	W22-HC	N/A	W22-HC	N/A	0W	0	0	Remove, High Ceiling	n/a		

Quantity	Control Description	Product Specification	Unit Price	Total Price
3	CT36 - Switch	Decora		
4	CT46A - nLight Dimmer Switch- 2 Pole (1)- Wireless	Acuity: RPODB-2P-DX-WH-G2 [1], Switch Plate		
1	CT46G - nLight Dimmer Switch- 2 Pole (6), nLight Power Pack (6)- Wireless	Acuity: RPODB-2P-DX-WH-G2 [6], RP20-D-G2 [6], Switch Plates		
1	CT46K - nLight Dimmer Switch- 2 Pole (1), nLight Power Pack (5)- Wireless	Acuity: RPODB-2P-DX-WH-G2 [1], RP20-D-G2 [5], Switch Plates		
40	CT47 - nLight Dimmer Switch (1)-Wired	Acuity: nPODM-DX-WH [1], Switch Plate		
10	CT47A - nLight Dimmer Switch- 2 Pole (1)-Wired	Acuity: nPODM-DX-WH [1], Switch Plate		
42	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired	Acuity: nPODM-2P-DX-WH [1], nCM10 ADCX RJB [1], Switch Plate		
4	CT47D - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (2)-Wired	Acuity: nPODM-2P-DX-WH [1], nCM10 ADCX RJB [2], Switch Plate		
1	CT47E - nLight Dimmer Switch (2), Occupancy Sensor (1)-Wired	Acuity: nPODM-DX-WH [2], nCM10 ADCX RJB [1], Switch Plate		
2	CT47F - nLight Dimmer Switch- 2 Pole (2), Occupancy Sensor (1)-Wired	Acuity: nPODM-2P-DX-WH [2], nCM10 ADCX RJB [1], Switch Plate		
2	CT47G - nLight Dimmer Switch- 2 Pole (2), Occupancy Sensor (2)-Wired	Acuity: nPODM-2P-DX-WH [2], nCM10 ADCX RJB [2], Switch Plate		
1	CT47J - nLight Dimmer Switch (1); nLight Power Pack (1)- Wried	Acuity: nPODM-DX-WH [1], nPP16-D-EPF [1], Switch Plate		
1	CT47L - nLight Power Pack (1)-Wired	Acuity: nPP16-D-EPF [1]		

Notes:

1. Line item/unit pricing to be provided for each fixture type. Unit pricing includes installation labour and materials.
2. Refer to Section 00750 for Additional Product Specification Notes and Section 00600 Project Specifications.
3. Any alternate proposed fixture manufacturers are subject to advance consultant approval.
4. Prime cost sum allowance (\$12,500.00) included for independent programming/commissioning.

Subtotal: _____

Prime Cost Sum Allowance: \$12,500.00

Other: _____

Other: _____

Total Project Price: _____

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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SCHEDULE NO. 2 - BIDDER'S INFORMATION

Name of firm or company: _____

Address of firm or company: _____

Regular hours of business: _____

Telephone number during regular hours of business: _____

Fax no.: _____

Name of contact: _____

Number of employees currently on staff: _____

Individual supervising this project:

Name: _____

Address: _____

Telephone no.: _____

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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SCHEDULE NO. 3 – SUB-CONTRACTOR

Name of firm or company: _____

Regular hours of business: _____

Telephone number during regular hours of business: _____

Telephone number outside regular hours of business: _____

Fax No.: _____

Name of contact: _____

Number of employees currently on staff: _____

List below three references of local organizations that the Sub-Contractor has performed similar work for in the past twelve months:

1) Organization Name: _____

Contact: _____

Telephone No.: _____ Fax No.: _____

2) Organization Name: _____

Contact: _____

Telephone No.: _____ Fax No.: _____

3) Organization Name: _____

Contact: _____

Telephone No.: _____ Fax No.: _____

Individual supervising this project: _____

SCHOOL DISTRICT NO. 38 (RICHMOND)

SECTION 00300

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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SCHEDULE NO. 4 – PRELIMINARY CONSTRUCTION SCHEDULE

Please Provide a Preliminary Construction Schedule.

Anticipated Completion Date: _____.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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SCHEDULE NO. 5 – EXPERIENCE OF CONTRACTOR SUPERINTENDENT

Name: _____

Experience

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

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SCHEDULE NO. 6 – LABOUR RATES**Table of Mark-up Percentages and Labour Rates for Additional Work**

Item	Rate
Mark-Up for Material Required for Additional Work	%
Staff Rates for work items not covered by unit prices:	
Electrician	\$ /hour
Apprentice	\$ /hour
Helper	\$ /hour
Other applicable staff rates (specify):	\$ /hour
	\$
	\$
	\$
	\$
	\$
	\$

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

(THIS FORM TO BE COMPLETED ONLY BY THE SUCCESSFUL CONTRACTOR)

PAGE 1 OF 4

APPENDIX "A" – PRIME CONTRACTOR DESIGNATION

DEFINITIONS:

**Owner: School District No.38
(Richmond)**

According to the Workers Compensation Act (Part III)

Prime Contractor:

Any Contractor designated by the Owner to be the Prime Contractor on a project with respect to occupational health and safety ONLY

DESIGNATION:

By signing this agreement, the Contractor agrees to assume the responsibilities of a **Prime Contractor** as outlined in the Workers' Compensation Act, and Regulations.

As a Contractor signing this agreement with the Owner, you are agreeing that your Company, Management staff, Supervisory staff and workers will comply with the Workers' Compensation Board (WCB) Occupational Health and Safety Regulation and the Workers' Compensation (WC) Act.

If the Prime Contractor wishes to designate another firm as the Prime Contractor, they shall advise the Owner of their intentions in writing prior to the commencement of the new Prime Contractor designation. The new Prime Contractor must agree through signature to all the terms of this agreement.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE(THIS FORM TO BE COMPLETED ONLY BY THE SUCCESSFUL CONTRACTOR) PAGE 2 OF 4**PRIME CONTRACTOR RESPONSIBILITIES:**

In the contract **tendering process**, the potential Prime Contractor candidate will provide the following information:

- Proof that they are registered with the Workers Compensation Board (WCB) of BC and notify the Owner of any change of status during the course of the project.
- Proof that they are up to date on WCB assessment payments
- Proof that they have taken optional coverage for Self, Limited Partners, and family members working on the contract, as required
- Proof that they have taken appropriate coverage for the work being done (i.e. ensure they are in the right classification).

Once the **selection process** has been completed and the Prime Contractor has been determined, the Prime Contractor shall:

- Review, complete and sign Appendix "A", "Prime Contractor Designation".
- Meet with the School District Contract Liaison, prior to the commencement of work, to be notified of any extraordinary pre-existing hazards peculiar to the project.
- Review, complete and sign with the School District Contract Liaison, Appendix "C", "Confirmation of Responsibilities".
- Maintain and make available, the documents listed in Appendix "D", where applicable.
- Submit the Notice of Project to the WCB, where required on a construction workplace. See WCB OHS Regulation 20.2 for the general requirements of a Notice of Project.
- Schedule and attend regular meetings with the District.
- Coordinate with the District Project Manager any requests for placement of exterior bins, storage containers, etc.
- Identify and designate a qualified co-ordinator, who must co-ordinate health and safety activities on the workplace, if the workplace is a construction workplace with a combined workforce of more than two (5) workers
- Assume responsibility for the health and safety of the workers on the project.
- Inform all other employers for the project of the designation of Prime Contractor.
- Co-ordinate all activities of employers, workers and other persons at the workplace relating to occupational health and safety.
- Establish and maintain a system or process that will ensure all employers, workers and other persons at the workplace comply with Part III of the Occupational Health and Safety, Workers Compensation Act, and the WCB OHS Regulations.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE(THIS FORM TO BE COMPLETED ONLY BY THE SUCCESSFUL CONTRACTOR) PAGE 3 OF 4**PRIME CONTRACTOR QUALIFIED CO-ORDINATOR:**

The responsibilities of the qualified co-ordinator are listed in WCB OHS Regulation 20.3.

The **Prime Contractor's Qualified Co-ordinator** must:

- Co-ordinate all health and safety activities for the project.
- Know who all other Contractors' Qualified Persons are, if it is a construction workplace.
- Ensure that all workers at the workplace are informed of extraordinary pre-existing workplace hazards, and of any hazards on the workplace that are created by the work.
- Ensure that all workers are adequately trained in the performance of their job tasks with particular reference to any job or task which may cause a risk to themselves, their co-workers or to any third party.
- Ensure that the hazards are addressed throughout the duration of the work activity.
- Ensure there are written procedures for safe work practices to be followed at the workplace.
- Have a workplace drawing showing where all employers at the workplace are working, where first aid is located, emergency transportation system for injured workers, and evacuation marshalling points. This document must be provided to the Owner prior to the commencement of work activity.
- Ensure that if there is an accident, where there is loss of life or where there was potential for an accident leading to loss of life, the Owner is advised forthwith of the details and any other information. This will be provided to the Owner for information purposes only.
- Ensure that workplace safety meetings are held and documented.
- Ensure that there is compliance with any other statute, regulation or bylaw which is in place to provide worker safety.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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CONCLUSION:

Any WCB or WCB Occupational Health and Safety regulation violation by the Prime Contractor or any other employer, worker or other person on the workplace shall be considered a breach of contract which may result in termination or suspension of the contract and/or any other actions deemed appropriate at the discretion of the Owner.

Any penalties, sanctions or additional costs levied against the Prime Contractor will be the responsibility of the Prime Contractor.

I, the undersigned, acknowledge having read and understand the information above.

By signing this agreement, I agree as a representative of the firm noted below, to assume the responsibilities of the **Prime Contractor** for this project.

Date:

Contract: TENDER NO. 2022-1604
 MCMATH SECONDARY SCHOOL LIGHTING UPGRADE

Firm
Name:

Address:

Signature of Prime Contractor

Title

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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PAGE 1 OF 1

APPENDIX "B" – PRE-CONTRACT HAZARD ASSESSMENT

	Pre-Contract Hazard Assessment	Prime Contractor designated: Yes
Prime Contractor: <hr/> <hr/>	Location: McMath Secondary 4251 Garry Street, Richmond, BC	Contractor Representative: <hr/> Tel: _____ Date: _____
Hazards Identified:	Safety Procedure Document Provided Yes / No	
Hazard #1: Working in high-ceiling areas Comments:		
Hazard #2: Presence of voltages >250V Comments:		
Hazard #3: Comments:		
Hazard #4: Comments:		

Action required to eliminate or control workplace hazards:

SCHOOL DISTRICT NO. 38 (RICHMOND)**SECTION 00400****RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE**

**(THIS FORM TO BE COMPLETED ONLY BY THE SUCCESSFUL CONTRACTOR) PAGE 1 OF 1
APPENDIX "C" – CONFIRMATION OF RESPONSIBILITIES**

Discussion with Prime Contractor and Owner Contract Liaison

Date _____ Meeting Location _____

Firm Name (Prime Contractor) _____

Prime Contractor Representative _____ Job Title _____

• Acknowledges the appointment of Prime Contractor	<input type="checkbox"/> yes <input type="checkbox"/> no
• Understands that in any conflict of directions, WCB OHS Regulation and/or the Act shall prevail	<input type="checkbox"/> yes <input type="checkbox"/> no
• Has been informed of any extraordinary pre-existing workplace hazards	<input type="checkbox"/> yes <input type="checkbox"/> no
• Will communicate hazards to any persons who may be affected and ensure that appropriate measures are taken to effectively control or eliminate the hazards	<input type="checkbox"/> yes <input type="checkbox"/> no
• Accepts that written documentation (e.g. Safety Program, notes, records, inspections, meetings etc.) on all health and safety issues must be available upon request to School District #38 (Richmond) and/or to a WCB Prevention officer at the workplace	<input type="checkbox"/> yes <input type="checkbox"/> no
• Will confirm that all workers are suitably trained and competent to perform the duties for which they have been assigned	<input type="checkbox"/> yes <input type="checkbox"/> no
• Safety orientation of all new workers will be conducted	<input type="checkbox"/> yes <input type="checkbox"/> no
• Will assess and will coordinate the first aid requirements	<input type="checkbox"/> yes <input type="checkbox"/> no
• Assumes responsibility for the health and safety of their workers and for ensuring compliance by their workers with the WC Act and WCB OH&S Regulations	<input type="checkbox"/> yes <input type="checkbox"/> no
• Understands any WCB violation by the Prime Contractor may be considered a breach of contract resulting in possible termination or suspension of the contract and/or any other actions deemed appropriate at the discretion of School District #38 (Richmond)	<input type="checkbox"/> yes <input type="checkbox"/> no
• Understands any penalties, sanctions or additional costs levied against the Prime Contractor will be the responsibility of the Prime Contractor	<input type="checkbox"/> yes <input type="checkbox"/> no

Notes/Follow-up: On additional pages as required

Signature
Prime Contractor Rep. _____

Signature
Owner Contract Liaison _____

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

(THIS FORM TO BE COMPLETED ONLY BY THE SUCCESSFUL CONTRACTOR) PAGE 1 OF 1

APPENDIX "D" – RECORDS TO BE MAINTAINED AND AVAILABLE

The documents required to be maintained and available by the Prime Contractor will include, but will not be limited to:

- The Prime Contractor's safety program
- All notices which the **Prime Contractor** is required to provide to the Workers' Compensation Board by the WCB OHS Regulation
- Any written summary of remedial actions taken to reduce occupational health and safety hazards within the area of responsibility
- All directives and inspection reports issued by the Workers' Compensation Board
- Reports on incidents and accidents occurring within the Prime Contractor's area of responsibility for which notification to the Worker's Compensation Board is required
- Records of all safety meetings held between Contractors and their workers
- Records of workplace health and safety orientation
- Written evidence of inspections within the workplace
- Occupational first aid records
- Worker training records

RE:TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE**PAGE 1 OF 5****SUPPLEMENTARY CONDITIONS**

The Agreement between the Owner and the Contractor, the Definitions and the General Conditions shall be based on those contained in CCDC 2 (2008) Stipulated Price Contract, as amended and supplemented herein.

The following Supplementary Conditions shall modify, delete, and add to the Agreement. Where any article, paragraph, or subparagraph in the General Conditions is supplemented by one of the following paragraphs, the provisions of the article, paragraph, or subparagraph shall remain in effect and the supplemental provisions shall be considered as added. Where any article, paragraph, or subparagraph is amended, voided, or superseded by any of the following paragraphs, the provisions of the article, paragraph, or subparagraph not amended, voided or superseded shall remain in effect.

MODIFICATIONS TO DEFINITIONS**DEFINITIONS**

9. Add the following sentence to the definition of 4 Contractor:

“For the purposes of the Contract, The Contractor shall be deemed to be “Prime Contractor” as defined by the applicable provincial Health and Safety legislation”.

MODIFICATIONS TO GENERAL CONDITIONS**GC 3.1 CONTROL OF THE WORK**

Add new paragraph 3.1.3 as follows:

“3.1.3 For the purposes of the Contract, the Contractor shall be deemed to be “Prime Contractor” as defined by the applicable Health and Safety legislation.”

GC 11.1—INSURANCE, replace entirely with the following:

11.1.1 Without restricting the generality of GC 12.1—INDEMNIFICATION, insurance and coverage will be arranged and paid for as under-noted:

(a) Wrap-up Liability Insurance

1) The Owner shall provide, maintain and pay for Commercial General Liability Insurance with a limit of Ten Million Dollars (\$10,000,000.00), inclusive per occurrence, Twenty Million Dollars (\$20,000,000.00) general aggregate for bodily injury, death, and damage to property including loss of use thereof, product/completed operations liability with a limit of Ten Million Dollars (\$10,000,000.00) annual aggregate.

2) The insurance shall cover the Owner, Contractors and Sub-contractors, Architects, Engineers, Consultants and anyone employed by them to perform a part or parts of the Work but excluding suppliers whose only function is to supply and/or transport products to the

RE:TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE**PAGE 2 OF 5**

project site. The insurance does not extend to any activities, works, jobs or undertakings of the insureds other than those directly related to the Work of this Contract.

3) The insurance shall preclude subrogation claims by the insurer against anyone insured hereunder.

4) The insurance shall include coverage for:

.01 Products and Completed Operations Liability (twenty-four (24) months); .02 Cross Liability (or Severability of Interests);

.03 Shoring, Blasting, Excavating, Underpinning, Demolition, Piledriving and Caisson Work, Work Below Ground Surface, Tunneling and Grading, as applicable;

.04 Limited Pollution Liability (Two Million Dollars (\$2,000,000.00));

.05 Broad Form Tenants Legal Liability (One Million Dollars (\$1,000,000.00));

.06 Operation of Attached Machinery; and

.07 Forest Fire Fighting Expenses (One Million Dollars (\$1,000,000.00)).

5) Any applicable deductible shall not exceed Ten Thousand Dollars (\$10,000.00) except with respect to loss or damage arising from hot roofing operations which will carry a deductible of Two Million Dollars (\$2,000,000).

6) If the Project requires hot roofing work, the Contractor (or Contractor's Subcontractors) will provide, maintain and pay for a Commercial General Liability Insurance in the amount of Two Million Dollars (\$2,000,000.00) inclusive per occurrence against bodily injury and property damage. The Owner shall be added as an additional insured. Such insurance shall be primary and include, but not be limited to:

.01 Premises and Operations Liability;

.02 Products and Completed Operations;

.03 Owner's and Contractor's Protective Liability;

.04 Blanket Written Contractual Liability;

.05 Contingent Employer's Liability;

.06 Personal Injury Liability;

.07 Non-Owned Automobile Liability;

.08 Cross Liability;

.09 Employees as Additional Insureds; and

.10 Broad Form Property Damage.

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6) This insurance shall be maintained continuously from commencement of the Work until the date of final certificate for payment is issued or when the insured project is completed

and accepted by or on behalf of the Owner, whichever occurs first, plus with respect to completed operations cover a further period of twenty-four (24) months.

(b) Property Coverage

1) The Owner shall provide, maintain and pay for Course of Construction coverage, against "All Risks" of physical loss or damage, and will cover all materials, property, structures and equipment purchased for, entering into, or forming part of the Work whilst located anywhere within Canada and continental United States of America (excluding Alaska) during construction, erection, installation and testing, but such coverage shall not include coverage for Contractor's equipment of any description. Such coverage shall be maintained until Substantial Performance of the Work. There will be a deductible of Ten Thousand Dollars (\$10,000.00) for each and every occurrence except for the peril of earthquake which shall have a five percent (5%) (subject to minimum Two Hundred Fifty Thousand Dollars (\$250,000.00)) deductible based upon completed values at time of loss. A one day waiting period for each month of the estimated project term subject to a minimum waiting period of thirty (30) days shall apply with respect to soft costs.

2) The coverage shall include as a protected entity, each Contractor, Subcontractor, Architect or Engineer who is engaged in the Project.

3) The coverage will contain a waiver of the Owner's rights of subrogation against all protected entities except where a loss is deemed to have been caused by or resulting from any error in design or any other professional error or omission.

4) The Contractor shall, at his own expense, take special precaution to prevent fires occurring in or about the Work and shall observe, and comply with, all insurance policy warranties and all laws and regulations in force respecting fires.

(c) Automobile Liability Insurance

The Contractor (or Contractor's Subcontractors) shall provide, maintain and pay for Automobile Liability Insurance in respect of all owned or leased vehicles if used directly or indirectly in the performance of the Work, subject to limits of not less than Two Million Dollars (\$2,000,000.00) inclusive per occurrence. The insurance shall be placed with such company or companies and in such form and deductibles as may be acceptable to Owner.

(d) Aircraft and/or Watercraft Liability Insurance

When applicable, the Contractor (or Contractor's Subcontractors) shall provide, maintain and pay for liability insurance with respect to owned or non-owned aircraft and watercraft if used directly or indirectly in the performance of the Work, subject to limits of not less than Two Million Dollars (\$2,000,000.00) inclusive per occurrence for bodily injury, death, and damage to property including loss of use thereof and including aircraft passenger hazard where applicable. The Owner must be included as an additional insured but only with respect to liability arising out of the Contractor's performance of the Contract. The insurance shall be placed with such company or companies and in such form and deductibles as may be acceptable to Owner.

(e) Contractors Pollution Liability Insurance

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When applicable, the Contractor (or Contractor's Subcontractors) shall provide, maintain and pay for Contractor's Pollution Liability, where the Contractor's performance (or Contractor's Subcontractors performance) of the Work is associated with hazardous materials clean-up, removal and/or containment, transit and disposal. This insurance must have a limit of liability

not less than Two Million Dollars (\$2,000,000.00) inclusive per occurrence insuring against bodily injury, death, and damage to property including loss of use thereof. The Owner must be included as an additional insured but only with respect to liability arising out of the Contractor's performance of the Contract. Such insurance shall not be impaired by any time element limitations to the pollution event, biological contaminants (without limitation, mold and bacteria), asbestos, or lead exclusions. Any "insured vs. insured" exclusion shall not prejudice coverage for the Owner and shall not affect the Owner's ability to bring suit against the Contractor as a third party. If any such insurance is provided on a claims-made basis and that insurance is cancelled or not renewed, such policy must provide a twenty-four (24) month extended reporting period.

- 11.1.2 The description of the Owner arranged insurance described herein is provided on a summary basis only and is not a statement of the actual policy terms and conditions. The Owner does not represent or warrant that the Owner arranged insurance contains insurance for any and all losses. It is the Contractor's responsibility to ascertain the exact nature and extent of coverage provided by the Owner arranged insurance, to review all policies pertaining thereto and to obtain any other insurance that it may be prudent for the Contractor to obtain. The Contractor shall provide, maintain and pay for any additional insurance which they are required to provide by law or which they consider necessary.
- 11.1.3 The Owner shall, upon request, provide the Contractor with proof of insurance for those coverages and insurances required to be provided by the Owner prior to commencement of the Work and subsequent certified copy of policies within a reasonable time period thereafter.
- 11.1.4 Where applicable, any Contractor insurance required under this section 11.1.1 must be endorsed to provide the Owner with Thirty (30) days advance written notice of cancellation, or adverse material change.
- 11.1.5 The Contractor and/or Contractor's Subcontractors, as may be applicable, shall be responsible for any deductible amounts under the policies of coverage and insurance except for perils of flood and earthquake.
- 11.1.6 The Contractor shall provide the Owner with proof of insurance for those insurances required to be provided by the Contractor prior to the commencement of the Work in the form of a completed certificate of insurance. The Contractor shall also provide a certified copy of any required policies to the Owner upon request. The Contractor must cause all Subcontractors to comply with the insurance requirements outlined herein.
- 11.1.7 The Owner shall not be responsible for injury to the Contractor's employees or for loss or damage to the Contractor's or to the Contractor's employees' machinery, equipment, tools or supplies which may be temporarily used or stored in, on or about the premises during construction and which may, from time to time, or at the termination of the contract, be removed from the premises. The Contractor hereby waives all rights of recourse against the Owner or any other contractor with regard to damage to the Contractor's property.

GC 11.2 CONTRACT SECURITY (for projects of One Hundred Fifty Thousand Dollars (\$150,000.00) or greater), delete entirely and replace with the following:

RE:TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE**PAGE 5 OF 5**

- 11.2.1 The Contractor shall prior to commencement of the Work furnish performance and labour and material payment bonds within fourteen (14) days of the date of this Contract. Each bond must be in a sum equal to 50% of the total Contract price. The bonds must be issued on the latest CCDC-221 or CCDC-222 approved forms or other such forms approved by the Surety Association of Canada and issued by a surety company registered in the Province of BC or another surety company acceptable to the Owner. The Contractor must maintain the bonds in good standing until the fulfilment of the Contract.

GC 12.1 – INDEMNIFICATION, delete GC 12.1.1 and 12.1.2 and replace with the following:

GC 12.1 – INDEMNIFICATION

- 12.1.1 Without restricting the parties' obligation to indemnify as described in paragraphs 12.1.4 and 12.1.5, and excepting always losses arising out of the independent acts of the party for whom indemnification is sought, the Owner and the Contractor shall each indemnify and hold harmless the other from and against all claims, demands, losses, costs, damages, actions, suits, or proceedings whether in respect to losses suffered by them or in respect to claims by third parties that arise out of, or are attributable in any respect to their involvement as parties to this contract, provided such claims are:

- .1 caused by:
- (1) the acts or omissions of the party from whom indemnification is sought or anyone for whose acts or omissions that party is liable, or
 - (2) a failure of the party to the Contract from whom indemnification is sought to fulfill its terms or conditions; and
- .2 made by Notice in Writing within such periods as prescribed by the Limitation Act of the Province of British Columbia.

- 12.1.2 The obligation of either party to indemnify as set forth in paragraph 12.1.1 shall be limited as follows:

- .1 In respect to losses suffered by the Owner and the Contractor for which insurance is to be provided by the owner pursuant to GC 11.1 – INSURANCE, the limit of the GENERAL LIABILITY COVERAGE – GC 11.1.1(a) or the limit of the PROPERTY COVERAGE – GC 11.1.1(b) whichever is pertinent to the loss.
- .2 In respect to losses suffered by the Owner and the Contractor for which insurance is not required to be provided by either party in accordance with GC 11.1 – INSURANCE, the greater of the Contract Price as recorded in Article A-4 – CONTRACT PRICE or Two Million Dollars (\$2,000,000.00), but in no event shall the sum be greater than Twenty Million Dollars (\$20,000,000.00).
- .3 In respect to claims by third parties for direct loss resulting from bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, the obligation to indemnify is without limit. In respect to all other claims for indemnity as a result of claims advanced by third parties, the limits of indemnity set forth in paragraphs 12.1.2.1 and 12.1.2.2 shall apply.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE**PAGE 1 OF 7****PROJECT SPECIFICATIONS**

1. *Clarification*

The **Scope of Work** is provided in Outline Form only. Bidders finding discrepancies, ambiguities, or omissions in the Outline Scope of Work, or having doubt as to the meaning or intent shall immediately advise the Owner, who may issue instruction or clarification, in the form of an Addendum to all Bidders.

2. *BC Hydro Alliance Requirements*

The Contractor and any Sub-contractor performing more than 10% of the work **must be** registered and approved with the BC Hydro Power Smart Alliance.

The Contractor and any Sub-contractor shall meet all BC Hydro Power Smart requirements. If there is a conflict between the BC Hydro Power Smart requirements and this document, the BC Hydro Power Smart requirements shall prevail.

3. *Intent of Project*

This project is being undertaken as lighting improvement and energy reduction initiative. The achievement of the planned energy savings is a key element of the project.

This project involves the removal of existing lighting fixtures, the installation of new lighting fixtures, retrofitting existing light fixtures and the addition or upgrade of lighting controls. The key items include:

- **Lighting Controls:** Lighting is generally controlled by line voltage switches, however common areas have an older Douglas low voltage control system. The intent is to convert most of the line voltage-controlled lighting to a combination of wired and wireless Acuity nLight lighting controls. Classrooms, offices and other T-bar ceiling areas will generally have “wired” controls; whereas the drama/stage, selected atrium lighting and the portable will have “wireless” controls. Corridors, washrooms, gymnasiums, library, science lab and exterior lighting will remain on the Douglas control system. Service and storage rooms will generally retain line voltage switching. Note that plenum rated CAT5e cable (to be green or yellow- no boots) is used for nLight wired systems to interconnect fixtures, switches, sensors etc. In some cases, low voltage 0-10V wiring will be required for dimming when using nLight power packs with non-nLight enabled fixtures.

All areas to be functional following installation by the Contractor. Detailed programming of nLight wired and wireless devices will be provided by others using an nLight commissioning tool and Sensorview software.

In some cases, applicable Douglas relays must be by-passed within the relay panels and disconnected from the Douglas system when changing over to the nLight system. Wiring within the relay panels must be labeled indicating circuits when relays are by-passed. Applicable circuit schedules to be updated within the breaker panels.

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The existing Douglas Control System must continue to operate for all areas not included within the controls upgrade scope of this lighting upgrade project.

- Classrooms- T-bar Ceiling: Replace existing base building 2x4 recessed fixtures with new nLight enabled 2x4 LED luminaires generally on a one for one basis.
- Classrooms- Controls: Existing line voltage switches will be replaced with new data line on-off/dimmer switches and generally provide two dimming zones. Ceiling mount occupancy sensors will be installed. Classroom fixtures, switches and sensors to be interconnected with CAT5e cable; no re-circuiting of fixtures is required. Dimming zones to be programmed using a nLight commissioning tool and Sensorview software (by others).
- Offices, meeting rooms, etc - T-bar Ceiling: Replace existing base building 2x4 recessed fixtures with new nLight enabled 2x4 LED luminaires. Existing low voltage switches will be replaced with new data line on-off/dimmer switches and generally provide one dimming zone. Fixtures and switches to be interconnected with CAT5e cable; no re-circuiting of fixtures required.
- Library, science lab, storage, corridors, etc - T-bar Ceiling: Replace existing base building 2x4 recessed fixtures with 2x4 recessed LED luminaires. These areas will remain on the existing controls.
- Corridors- High and Low Ceiling: Retrofit existing T8 and T5HO fixtures with LED lamps and ballasts/drivers.
- Gymsnasiums: Retrofit existing T5HO gym fixtures with LED lamps and drivers. Douglas controls to remain.
- Atrium: Replace existing beam mount fluorescent wrap fixtures with nLight AIR (wireless) enabled LED wrap luminaires. Fixtures/switches to be programmed using a nLight mobile App commissioning tool (by others). High bay fixtures to be replaced with new LED high bays or removed.
- Drama and Stage areas: Retrofit existing fluorescent wrap fixtures with new LED lamps and dimming drivers. nLight AIR (wireless) enabled power packs to be installed providing wireless dimming. Fixtures/switches to be programmed using a nLight mobile App commissioning tool (by others).
- Potlights will generally be replaced one for one with LED potlights. Non-nLight enabled luminaires will be used, however limited areas will require 0-10V low voltage wiring to facilitate dimming (using nLight power packs).
- Shop areas, change rooms and most service/storage rooms having T8 fixtures will be retrofitted with T8 LED lamps and new instant start ballasts. These areas will remain on the existing controls.

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- T8 fixtures in washrooms, stairwells and selected areas will be replaced with LED luminaires having integral occupancy sensors. These areas will remain on the existing controls.
- Non-LED and older exterior building fixtures to be replaced with new LED luminaires. It is expected that the Contractor will allow time to investigate and verify that the proposed solutions are applicable for each fixture type. Solutions will be confirmed based on the fixture reviews. These areas will remain on the Douglas Control System.
- Portable: Replace existing wrap fixtures with a reduced number of nLight Air (wireless) enabled LED wrap luminaires. Fixtures/switches to be programmed using a nLight mobile App commissioning tool (by others).
- Contractor is responsible to ensure lighting controls are fully functional prior to a final inspection by School District No. 38 (Richmond).

4. *Scope of Work Clarification*

Since the successful bidder will be registered with the BC Hydro Power Smart Alliance, it is expected that they will be very familiar with the type of work involved in the project as noted in the Outline Scope of Work. Bidders finding discrepancies, ambiguities, or omissions in the Scope of Work, or having doubt as to the meaning or intent shall immediately advise the Consultant, who may issue instruction or clarification, in the form of an Addendum to all bidders. All such Addenda shall become a part of the Bid Documents.

5. *Products to be Installed (Equivalent Products):*

Only those lighting and control products specified in Section 00750 – Product Specifications may be accepted for this project.

Shop drawings for alternate exterior lighting products MUST be submitted at least 5 business days before tender closing and must be approved by the Consultant.

The Contractor shall provide and the Consultant must approve the shop drawings for all products and fixtures before they are ordered by the Contractor.

6. *Bid Requirements:*

Unit pricing for the specified fixtures and controls, which includes both materials and installation pricing for each fixture/ controls type is required from the Bidders.

7. *Specified Work*

The work to be performed is as outlined in the attached Section 00700 Outline Scope of Work document and shall fully comply with BC Hydro Power Smart requirements. The contractor shall provide all labour, materials and equipment required to complete the work and maintain the work site in a clean and tidy manner. All shipping and packing material shall be removed from each job site at the end of each working day.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE**PAGE 4 OF 7****8. *Changes to Scope of Work***

The Owner reserves the right to amend the Outline Scope of Work prior to the start of the work by the contractor, and to use the unit costs specified in the bid documents to amend the contract price at any time. Where unit costs are not available for changes, changes to the contract price shall be based on the labour rates and material markup specified in the bid documents.

No additional work shall be undertaken without the written approval of the Owner. The Owner shall not make payment for any additional work that has not been approved.

9. *Workmanship*

All workmanship and materials shall be in accordance with well-established practice and standards accepted by the Industry and Trades for this class of facility and shall conform to all applicable Codes and Regulations.

The Owner shall have the right to reject any work that does not meet this standard.

The contractor must use Red Seal certified electricians who may be assisted by indentured apprentices to complete the work.

10. *Wiring Methods:*

It is intended to re-use most of the existing conduit and line voltage wiring distribution system.

Where additional wiring is required, wiring methods and materials shall be consistent and approved for applicable environments. Suitable quality copper wire of minimum gauge #12 shall be run in properly rated EMT conduit for all exposed wiring. Armoured cable (AC90) may be used for wire drops to fixtures, wire drops inside a wall and for fixture wiring above a T-bar ceiling and must be secured high enough to allow the ceiling tiles to be removed.

Where surplus wiring exists, it shall be identified and made safe to the satisfaction of the Consultant. At lighting panel locations, remove all accessible old existing redundant wiring from the lighting system. Limited areas require applicable Douglas relays to be by-passed within the relay panels and disconnected from the Douglas system when changing over to the nLight system. Wiring within the relay panels must be labeled indicating circuits when relays are by-passed. Applicable circuit schedules to be updated within the breaker panels.

nLight wired devices to be interconnected using plenum rated CAT5e cable (green or yellow- no boots) with RJ45 connectors. Any 0-10V control wiring shall be #18 AWG FT6-rated with 2-wires, colored grey and violet with an outer jacket. Control wire shall be run in conduit when exposed. When hidden in walls or run above T-bar ceilings, the control wire may be run without conduit but must be secured high enough to allow the ceiling tiles to be removed.

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Wiring shall be properly labeled at panels, junction boxes and switch locations (conductors and switch plates).

All new fixtures shall be fitted with a disconnect device as specified in the Canadian Electrical Code.

11. *Lighting Breaker and Control Panels:*

Contractor shall re-use the existing distribution circuit breaker panels and control panels and shall complete all wiring changes necessary to meet the circuit and lighting controls requirements. At lighting panel locations, remove all accessible old existing redundant wiring from the lighting system.

Contractor may evaluate the location and condition of the existing Distribution circuit breaker panels and make recommendations to the Consultant.

12. *Labeling and Recertification*

The contractor shall be responsible to label all retrofit fixtures to satisfy Province of BC Electrical Safety Branch requirements. BC Safety Authority Bulletin B-E3-100224 1 "Minimum Requirements - Retrofit of Fluorescent Fixtures" should be referenced.

13. *Ballast Sorting and Inspection Requirements*

It is a BC Hydro Power Smart requirement that all old fluorescent ballasts shall be removed from the fixtures, sorted into the categories of standard and electronic types and retained on site in a location specified by the Owner for inspection by the consultant.

Although there should be none on this site, wire leads on magnetic ballasts shall be cut off close to the ballast to prevent re-use. Any magnetic ballasts found containing PCBs shall be identified and segregated from non-PCB ballasts.

Any instant-start Electronic fluorescent ballasts should be removed with the wire leads intact and retained on site segregated from the magnetic ballasts. At the discretion of the Owner, following inspection of the ballasts by the Consultant, the electronic ballasts may be either delivered to the Owner with the ballast leads intact or recycled.

The balance of the lighting and electrical equipment removed in the course of the work shall be disposed of or delivered to the Owner, at the Owner's direction. The owner anticipates that the quantity of items to be retained will be minimal.

14. *Recycling of Removed Products*

Recycling of all products removed shall be the responsibility of the Contractor.

As of October 1st, 2012, all lamps, non-PCB ballasts and unwanted fixtures shall be returned to a BC Light Recycle collection site to be recycled. For more information and depot locations, visit the website below.

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Metal recycling is encouraged where practical.

15. *Hours of Work*

All work shall be performed in a manner that will coordinate with the operation of the facility.

It should be assumed in general that most work shall be completed during the hours of **3:00 PM to 12:00 midnight on weekdays when school is in session and arranged times when school is not in session, including weekends and holidays.** Exterior lighting upgrades can be performed when school is in session, providing that all measures are taken to ensure the health and safety of all students, staff and the public. Work in all areas shall be scheduled to ensure that lighting in those areas shall be fully operational for the following weekday when school is in session. At all times, the work must be completed in a manner that respects all other School District activities taking place in the school.

The contractor shall submit a work plan and ensure it includes sufficient information on the phasing of work areas to minimize disruption to facility operations and details relating to the on-site safety plan during construction. The work plan must be coordinated with the School District site liaison.

16. *Workplace Safety Practices*

The Contractor shall provide the Owner with written electrical lock-out procedures to be followed by all Contractor personnel during the course of the project.

17. *Substantial Completion*

The Contractor shall advise the Owner when the work has been substantially complete and shall review all completed work with the Owner and his Consultant for the purposes of final inspection and commissioning. Any deficiencies identified shall be promptly corrected to the satisfaction of the Owner and his Consultant.

The project must achieve substantial completion by **February 28, 2023.**

18. *Warranties & Installation Documentation*

The Contractor shall provide, in writing, a 1-year warranty of all products and workmanship. Replacement labour and materials shall be the responsibility of the contractor.

The Contractor shall also provide the Owner with 1 hard copy 3-ring binder and an electronic pdf copy Maintenance Manual containing all manufacturer warranties, product specifications and maintenance documentation for each type of product used in the project, excluding wire, conduit, and fittings. Manufacturer warranties for LED fixtures shall be for a minimum of 5 years.

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE**PAGE 7 OF 7**

The Contractor shall keep a set of Scope of Work spreadsheets and one set of white print drawings on the project and enter all changes.

The Contractor shall provide one set of Scope of Work spreadsheets and one set of white prints drawings with all marked changes of the "as built" work to the Consultant at the completion of the project. Marked-up changes to include but not limited to data line wiring paths and luminaire labels. Luminaire ID labels (x2- provided by manufacturer) to be adhered to luminare (back side) and layout drawing.

19. *Scope of Work*

Refer to Section 00700 Outline Scope of Work.

20. *Specifications*

Refer to Section 00750 Product Specifications.

21. *Layout Diagrams & Drawings (PDF Format)*

Refer to Section 00800. Diagrams & Drawings should be referenced with Outline Scope of Work and may be made available as separate documents.

Additional layout diagrams will be provided to the successful Contractor.

Description	Diagram/ Drawing(s) Ref.
• School Layout- Key Areas	School Floor Plan

SCHOOL DISTRICT NO. 38 (RICHMOND)

SECTION 00700

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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OUTLINE SCOPE OF WORK

EXISTING									LIGHTING UPGRADE								
Seq #	Floor	Area Name	Luminaire Description	Luminaire Quantity	Ballast Type	Lamps / Luminaire	Lamp Type	Type	Lamp	Luminaire Description	Luminaire Quantity	Control Type	# Controls	Notes:			
		A-WING - 1st Floor															
1	1	A121 W/R - 10220	1X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	1	CT25 - OS - Fixture Integrated					
2	1	A117 Drama - 10216	1X4 Fluorescent	25	Electronic	3	4FT (F32T8)-32W	R12-DIM-LED-HC	F32T8LED-14.0 Retrofit: T8 dimming driver, F32T8 LED lamps (3)- High Ceiling	25	CT49G - nLight Dimmer Switch- 2 Pole (6), nLight Power Pack (6)- Wireless	1					
3	1	A117 Drama - 10216	8" Potlight	9	Magnetic	2	CFL-26W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downlight Retrofit (1,000 lm)	9	CT46G - nLight Dimmer Switch- 2 Pole (6), nLight Power Pack (6)- Wireless					
4	1	A118@A119 Dressing Room - 1022/10221	1X4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	1	CT25 - OS - Fixture Integrated					
5	1	A118@A119 Dressing Room - 10222	Screw-in	12	1	INC 40W	J29E	N/A	LED: 4.5W Dimmable (2700K/G25 Med base)	12	No change						
6	1	A118@A119 Dressing Room - 10222	1X4 Fluorescent	11	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	1	CT25 - OS - Fixture Integrated					
7	1	A119 Dressing Room - 10222	Screw-in	6	1	INC 40W	J29E	N/A	LED: 4.5W Dimmable Globe 2700K (G25 Med base)	6	No change						
8	1	A120 W/R - 10223	1X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	1	CT25 - OS - Fixture Integrated					
9	1	A122 Custodian - 10219 (Estimate)	1X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	1	CT25 - OS - Fixture Integrated					
10	1	A116 Drama Office - 10218	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	CT47 - nLight Dimmer Switch (1)-Wired					
11	1	A115 Drama Storage - 10217	2X4 Fluorescent	8	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)- Relocate	8	No change					
12	1	A115 Drama Storage - 10217	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	2	No change					
13	1	A113 Stage - 10214	1X4 Fluorescent	22	Electronic	6	4FT (F32T8)-32W	R12-DIM-LED-HC	F32T8LED-14.0 Retrofit: T8 dimming driver, F32T8 LED lamps (3)- High Ceiling	22	CT46K - nLight Dimmer Switch- 2 Pole (1), nLight Power Pack (5)- Wireless	1					
14	1	A114 Stage Storage / Sprinkler - 10215	2X4 Fluorescent	1	Electronic	3	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	1	No change					
15	1	A111 Chor - 10212	2X4 Fluorescent	12	Electronic	3	4FT (F32T8)-32W	R12-LED-HC	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (3)- High Ceiling	12	No change						
16	1	A106 Music Entrance - 10206A/10206 Entry	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	2	No change					
17	1	A108 Music Main Area - 10206	2X4 Fluorescent	16	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-HC-n	N/A	New: 2x4 Recessed Flat Panel LED (-4,000 lm)- nLight- High Cell	16	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired	1				
18	1	A108 Music Main Area - 10206	Ext Sign	1	Electronic	1	EXIT SIGN - CFL	E1	N/A	New: Indoor Self-powered LED Exit Sign	1	No change					
19	1	A108 Storage - 10207	4" Industrial	3	Electronic	2	4FT (F32T8)-32W	A10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	3	No change						
20	1	A110 Control Rm - 10208	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	3	CT47 - nLight Dimmer Switch (1)-Wired	2				
21	1	A109 Practice Rm - 10209	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	CT47 - nLight Dimmer Switch (1)-Wired	2				
22	1	A108 Practice Rm - 10209	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	No change					
23	1	A108 Practice Rm - 10210	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	CT47 - nLight Dimmer Switch (1)-Wired	1				
24	1	A107 Practice Rm - 10211	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	CT47 - nLight Dimmer Switch (1)-Wired	1				
25	1	A105 Classroom - 10205	2X4 Fluorescent	16	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	16	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired	2				
26	1	A105 Classroom - 10205	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	No change					
27	1	A105 Classroom - 10205	Ext Sign	1	Electronic	1	EXIT SIGN - CFL	E1	N/A	New: Indoor Self-powered LED Exit Sign	1	No change					
28	1	Servicing Plant - 10203	1X4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	C2-LED-S	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	4	CT25 - OS - Fixture Integrated					
29	1	A104 Servery - 10204	1X4 Fluorescent	11	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	11	CT25 - OS - Fixture Integrated					
30	1	A104 Servery - 10204	2X4 Fluorescent	7	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	7	No change					
31	1	A104 Servery - 10204	Explosion Proof	3	1	LED Lamp 12W	W20	N/A	No Change	3	No change						
32	1	A104 Servery - 10204 - Upright Refrigerator - Strip Light	4" Strip	1	Electronic	1	4FT (F32T8)-32W	R9-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamp (1)	1	No change						
33	1	A101 / A103 Foyer - Perimeter - 10100 / 10202	10" Potlight	20	1	LED Lamp 12W	P10-GE	N/A	New: 10" Diameter Recessed LED Downlight (~3000 lm)	20	No change						
34	1	A101 / A103 Foyer - Perimeter - 10100 / 10202	8" Potlight	13	Magnetic	2	CFL-26W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8" Diameter Recessed LED Downlight (1000 lm)	13	No change					
35	1	A101 / A103 Foyer - Perimeter - 10100 / 10202 - Display Case Entry	8" Potlight	3	Magnetic	1	CFL-26W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8" Diameter Recessed LED Downlight (1000 lm)	3	No change					
36	1	A101 / A103 Foyer - Perimeter - 10100 / 10202 - Display Case Entry - Proof - Decorative	12" Potlight	12	Magnetic	1	CFL-26W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 12" Diameter Recessed Cover Plate	12	No change					
37	1	A101 / A103 Foyer - Perimeter - 10100 / 10202 - Display Case B 8"	Potlight	6	Electronic	1	10W LED	W20	N/A	No Change	6	No change					
38	1	A101 / A103 Foyer - Perimeter - 10100 / 10202	1X4 Fluorescent	10	Electronic	4	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	10	CT25 - OS - Fixture Integrated					
39	1	A101 / A103 Foyer - Perimeter - 10100 / 10202	Ext Sign	4	Electronic	1	EXIT SIGN - LED	W20	N/A	No Change	4	No change					
40	1	A112 Entry (from covered walkway) - 10213	1X4 Fluorescent	2	Electronic	4	F54TSO (45" Z")	R1-LED-HC	F54TSOLED-24.0 Retrofit: T5HO driver, F54TSO LED lamps (4)- High Ceiling	2	No change						
41	1	A102 Multi Purpose Area - 10156 High Ceiling Alum - Linear	1X4 Fluorescent	30	Electronic	2	4FT (F32T8)-32W	C2-LED-AIR-HO	N/A	New: 4' Wrap LED (6,000 lm)- Wireless- High Output	30	CT46A - nLight Dimmer Switch- 2 Pole (1)- Wireless	2				
42	1	A102 Multi Purpose Area - 10156 High Ceiling Alum - Indirect Light	12	Magnetic	1	MH 250W	K22-HC	N/A	Remove High Ceiling	12	No change						
43	1	A102 Multi Purpose Area - 10156 High Ceiling Alum - Highway	3	Magnetic	1	MH 250W	K22-HC	N/A	New: LED High-bay (24,000lm)	3	No change						
44	1	A102 Multi Purpose Area - 10156 High Ceiling Alum - Highway	3	Magnetic	1	MH 250W	K22-HC	N/A	Remove High Ceiling	3	No change						
		C-Wing 1st Floor															
45	1	C101 Boys W/R - 10157	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	2	CT25 - OS - Fixture Integrated					
46	1	C101 Boys W/R - 10157	4" Cube	2	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	2	CT25 - OS - Fixture Integrated					
47	1	C101 Boys W/R - 10157	8" Potlight	1	Magnetic	1	CFL-26W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8" Diameter Recessed LED Downlight (1000 lm)	1	No change					
48	1	C102 Custodian - 10158	4" Industrial	1	Electronic	2	4FT (F32T8)-32W	W22-T	N/A	Remove/Install Cover Plate	1	No change					
49	1	C115 Corridor C General Area - 10159, 10182, 10180	8" Potlight	31	Magnetic	1	CFL-26W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8" Diameter Recessed LED Downlight (1000 lm)	31	No change					
50	1	C101 Boys W/R - 10157	8" Potlight	4	Magnetic	2	CFL-26W-G24d-Quad, 2-pin-Mag	W22-T	N/A	Remove/Install Cover Plate	4	No change					
51	1	C115 Corridor C General Area - 10159, 10182, 10180	Explosion Proof - Decorative	8	Magnetic	1	CFL-15W-G23-Quad, 2-pin-Mag	X01-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	No change						
52	1	C132 Classroom	2X4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired	2				

SCHOOL DISTRICT NO. 38 (RICHMOND)

SECTION 00700

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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Seq #	Floor	Area Name	EXISTING					LIGHTING UPGRADE					Control Type	# Controls	Notes:
			Luminaire Description	Luminaire Quantity	Ballast Type	Lamps / Luminaire	Lamp Type	Type	Lamp	Luminaire Description	Luminaire Quantity	Control Type			
53	1	C131 Textiles - 10199	2x4 Fluorescent	14	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	14	CT47D - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (2)- Wired			
54	1	C131 Textiles - 10199	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (-4,000 lm)-nLight- Relocate	1	CT47D - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (2)- Wired			
55	1	C131 Dressing Rm - 10200	4' Potlight	1		1	CFL-23W (screw-in)	P4-GE	N/A	New: 4' Diameter Recessed LED Downlight Retrofit (1,000 lm)	1	no change			
56	1	C131 Dressing Rm - 10200	Vanity Light	5		1	IND- 40W	Z9E	N/A	LED: 45W Dimmable Globe 2700K (G25 Med base)	5	no change			
57	1	C130 Office - 10198	2x4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	8	CT47C - nLight Dimmer Switch (1)-Wired	2		
58	1	C129 Foods Rm - 10197	2x4 Fluorescent	14	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	14	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
59	1	C129 Foods Rm - 10197	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (-4,000 lm)-nLight- Relocate	1	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
60	1	C128 Prep Rm - 10196	2x4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	8	CT47C - nLight Dimmer Switch (1)-Wired	1		
61	1	C128 Prep Rm - 10196	Ext Sign	1		1	EXIT SIGN - CFL	E1	N/A	New: Indoor Self-powered LED Exit Sign	1	no change			
62	1	C127 Foods Rm - 10194	2x4 Fluorescent	15	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	15	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
63	1	C125 Storage - 10192	2x4 Fluorescent	5	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	5	no change			
64	1	C124 Electrical Rm - 10191	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	no change			
65	1	C124 Electrical Rm - 10193	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	no change			
66	1	C122 Prep Rm - 10189	2x4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	8	CT47 - nLight Dimmer Switch (1)-Wired	1		
67	1	C123 Storage - 10190	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	no change			
68		C120 Art Rm - 10188	2x4 Fluorescent	19	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	19	CT47D - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (2)- Wired			
69	1	Secure Storage 10195- 2 Rooms (Estimate)	4' Industrial	9	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	3	no change			
70	1	C121 Storage - 10188	1x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm)- Occupancy Sensor	1	CT25 - OS - Future Integrated			
71	1	C118 Art Rm - 10185	2x4 Fluorescent	19	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	19	CT47D - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (2)- Wired			
72	1	C118 Art Rm - 10185	Ext Sign	1		1	EXIT SIGN - CFL	E1	N/A	New: Indoor Self-powered LED Exit Sign	1	no change			
73	1	C119 Dark Rm - 10185	2x4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	3	no change			
74	1	C119 Dark Rm - 10185	Square/Circular Surf Mount	2		1	CFL-15W (screw-in)	Z4B	N/A	LED: 5.5W Dimmable (A9 retrofit) 2200-2700K	2	no change			
75		C117 Classroom - 10184	2x4 Fluorescent	11	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	11	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
76	1	C117 Classroom - 10184	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (-4,000 lm)-nLight- Relocate	1	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
77		C116 Classroom - 10183	2x4 Fluorescent	11	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	11	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
78	1	C116 Classroom - 10183	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (-4,000 lm)-nLight- Relocate	1	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
79		C114 Classroom - 10181	2x4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
80	1	C107 Classroom - 10164	2x4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight- Relocate	12	CT47A - nLight Dimmer Switch- 2 Pole (1)-Wired			
81	1	C107 Classroom - 10164	8' Industrial	12	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	12	CT36 - Switch	1		
82	1	C115 Lobby Area - 10159A	8' Potlight	6	Magnetic	2	CFL-23W/G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downlight Retrofit (1000 lm)	6	no change			
83	1	C106 Vestibule North - 10165	2x4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	2	no change			
84	1	C106 Vestibule North - 10165 EM	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	1	no change			
85	1	C108 Classroom - 10166	2x4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (-4,000 lm)-nLight- Relocate	12	CT47A - nLight Dimmer Switch- 2 Pole (1)-Wired			
86	1	C108 Classroom - 10166	8' Industrial	12	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	12	CT36 - Switch	1		
87	1	C109 Holography - 10167	2x4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	CT47 - nLight Dimmer Switch (1)-Wired			
88		C105 Art TV Prod Rm - 10162	2x4 Fluorescent	15	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	15	CT47F - nLight Dimmer Switch- 2 Pole (2), Occupancy Sensor (1)- Wired			
		B Wing - 1st Floor													
89	1	B151/B146/C104 Library - Hall /Reading - 10151, 10161, 10160	2x4 Fluorescent	34	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	34	no change			
90	1	B151/B146/C104 Library - Hall /Reading - 10151, 10161, 10160	8' Potlight	1	Magnetic	1	CFL-23W/G24d-Quad, 2-pin-Mag	A7-LED-FP-REL-n	N/A	New: 2x4 Flat Panel LED (3,000 lm)-nLight- Relocate	1	no change			
91	1	B151/B146/C104 Library - Hall /Reading - 10151, 10161, 10160	8' Potlight	3	Magnetic	1	CFL-23W/G24d-Quad, 2-pin-Mag	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	3	no change			
92	1	B151/B146/C104 Library - Hall /Reading - 10151, 10161, 10160	8' Potlight	5	Magnetic	1	CFL-23W/G24d-Quad, 2-pin-Mag	W20-T	N/A	No Change	5	no change			
93	1	B151/B146/C104 Library - Hall /Reading - 10151, 10161, 10160	8' Potlight	6	Magnetic	1	LED Strip Lamp 18W	Y22	N/A	Remove/Install Cover Plate	6	no change			
94	1	B151/B146/C104 Library - Hall /Reading - 10151, 10161, 10160	Wall Sconce	10	Magnetic	1	CFL-23W/G24d-Quad, 2-pin-Mag	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	10	no change			
95	1	B147/ Library Office - 10161A	2x4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	4	CT47A - nLight Dimmer Switch- 2 Pole (1)-Wired			
96	1	B147/ Library Office - 10161A	2x4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	2	no change			
97	1	B147/ Library Office - 10161A	8' Potlight	1	Magnetic	1	CFL-23W/G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downlight Retrofit (1000 lm)	1	no change			
98	1	Elevator Machine Room - 10155	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	no change			
99	1	B146 Girls W/R - 10153	10' LED Vanity	1	Electronic	1	10' LED Strip	W20	N/A	No Change	1	no change			
100	1	B146 Girls W/R - 10153	1x4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm)- Occupancy Sensor	2	CT25 - OS - Future Integrated			
101	1	B152 Learning Svcs - 10150	2x4 Fluorescent	13	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	13	CT47F - nLight Dimmer Switch- 2 Pole (2), Occupancy Sensor (1)- Wired			
102	1	B152 Learning Svcs - 10150	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (-4,000 lm)-nLight- Relocate	1	CT47F - nLight Dimmer Switch- 2 Pole (2), Occupancy Sensor (1)- Wired			
103	1	B155 Vestibule South (Wood/Metal Work)	2x4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	2	no change			
104	1	B155 Vestibule South (Wood/Metal Work) EM	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	1	no change			
105	1	B162 Prep Rm - 10168A	2x4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	4	CT47 - nLight Dimmer Switch (1)-Wired	2		
106	1	B153 Cad Lab - 10163	2x4 Fluorescent	20	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	20	CT47G - nLight Dimmer Switch- 2 Pole (2), Occupancy Sensor (2)- Wired			
107	1	B162 Wood/Metal Work T-Bar Area	2x4 Fluorescent	15	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	15	no change			
108	1	B162 Wood/Metal Work Open Area	4' Industrial	38	Electronic	3	4FT (F32T8)-32W	R12-LED-HC	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (3)- High Ceiling	38	no change			
109	1	B162 Wood/Metal Work Open Area	4' Industrial	7	Electronic	3	4FT (F32T8)-32W	R12-LED-HC	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (3)- High Ceiling	7	no change			
110	1	B162 Wood/Metal Work West Wall	4' Industrial	4	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	4	no change			
111	1	B162 Wood/Metal Work West Wall	Ext Sign	2	Electronic	1	EXIT SIGN - CFL	E1	N/A	New: Indoor Self-powered LED Exit Sign	2	no change			
112	1	C110 Finishing Rm - 10169	2x4 Fluorescent	4	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-REL	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)- Relocate	4	no change			
113	1	B161 Welding Rm - 10173	8' Industrial	4	Electronic	4	4FT (F32T8)-32W	A14-LED	F32T8LED- 9.5	Retrofit: T8 HE ballast, F32T8 LED lamps (4)	4	no change			

SCHOOL DISTRICT NO. 38 (RICHMOND)

SECTION 00700

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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Seq #	Floor	Area Name	EXISTING					LIGHTING UPGRADE					Control Type	# Controls	Notes:	
			Luminaire Description	Luminaire Quantity	Ballast Type	Lamps / Luminaire	Lamp Type	Type	Lamp	Luminaire Description	Luminaire Quantity					
114	1	C228 Mezzanine Woodwork (North) 20140	4' Industrial	4	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5ft Retrofit: T8 HE ballast, F32T8 LED lamps (2)	4	no change					
115	1	B228 Mezzanine Metalwork (South) 20139	4' Industrial	4	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5ft Retrofit: T8 HE ballast, F32T8 LED lamps (2)	4	no change					
116	1	C111/C112 Exterior Storage (North) - 10176 + 10177	Square/Circular Surf Mount	4	Magnetic	1	HPS 150W	S7-	N/A	New: LED Canopy (Med.)	4	no change				
117	1	C111/C112 Exterior Storage (North) - 10176 + 10177	Ext Proof	1	Electronic	1	LED 10W	W20	N/A	No Change	1	no change				
118	1	C111/C112 Exterior Storage (North) - 10176 + 10177	Ext Sign	1	Electronic	1	EXIT SIGN - CFL	E1	N/A	New: Indoor Self-powered LED Exit Sign	1	no change				
119	1	B160 / B163 Exterior Storage (South) - 10175 + 10174	Square/Circular Surf Mount	5	Magnetic	1	HPS 150W	W22	N/A	Remove/Install Cover Plate	5	no change				
120	1	B160 / B163 Exterior Storage (South) - 10175 + 10174	1X4 Fluorescent	8	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5ft Retrofit: T8 HE ballast, F32T8 LED lamps (2)	8	no change					
121	1	B150/B156 Classroom - 10172	2X4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (~4,000 lm)-nLight- Relocate	12	C147A - nLight Dimmer Switch, 2 Pole (1)-Wired	1			
122	1	B150/B156 Classroom - 10172	8' Industrial	12	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5ft Retrofit: T8 HE ballast, F32T8 LED lamps (2)	12	C136 - Switch	1				
123	1	B157 Business Ed - 10148	2X4 Fluorescent	12	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	C147C - nLight Dimmer Switch, 2 Pole (1), Occupancy Sensor (1)-Wired	1			
124			2X4 Fluorescent	15	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	15	C147C - nLight Dimmer Switch, 2 Pole (1), Occupancy Sensor (1)-Wired	1			
125	1	B142 Corridor B General Area - 10124, 10145, 10149	8' Potlight	29	Magnetic	1	CFL-20W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downright Retrofit (1000 lm)	29	no change				
126	1	B142 Corridor B General Area - 10124, 10145, 10149	8' Potlight	10	Magnetic	2	CFL-20W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downright Retrofit (1000 lm)	10	no change				
127	1	B142 Corridor B General Area - 10124, 10145, 10149	Explosion Proof - Decorative	8	Magnetic	1	CFL-15W-G23-Quad, 2-pin-Mag	W22	N/A	Remove/Install Cover Plate	8	no change				
128	1	B142 Corridor B General Area - 10124, 10145, 10149	Ext Sign	2	Electronic	1	EXIT SIGN - LED	W20	N/A	No Change	2	no change				
129								A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	C147A - nLight Dimmer Switch (1)-Wired	1			
130	1	B103 Office - 10124	2X4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	4	C147A - nLight Dimmer Switch (1)-Wired	1			
131	1	B104 Main Rm - 10127	2X4 Fluorescent	11	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	11	C147A - nLight Dimmer Switch (1)-Wired	1			
132	1	B119 Health Rm - 10107	2X4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	4	C147A - nLight Dimmer Switch, 2 Pole (1)-Wired	1			
133	1	B120 Cancer Rm - 10129	2X4 Fluorescent	6	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	6	C147A - nLight Dimmer Switch, 2 Pole (1)-Wired	1			
134	1	B120 Corridor - 10118 (+ Waiting Rm 10116)	8' Potlight	5	Magnetic	1	CFL-20W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downright Retrofit (1000 lm)	5	no change				
135	1	B120 Corridor - 10118 (+ Waiting Rm 10116)	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (3,600 lm)	2	no change				
136	1	B118 + B117 Meeting Rms - 10121, 10122	2X4 Fluorescent	8	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	8	C147A - nLight Dimmer Switch (1)-Wired	2			
137								A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (~4,000 lm)-nLight- Relocate	8	C147 - nLight Dimmer Switch (1)-Wired	1			
138	1	B121 Office - 10120	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	no change				
139								A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (~4,000 lm)-nLight- Relocate	1	C147 - nLight Dimmer Switch (1)-Wired	1			
140	1	B122 Office - 10119	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	no change				
141	1	B125 Office - 10115	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	C147 - nLight Dimmer Switch (1)-Wired	1			
142	1	B125 Office - 10115	8' Potlight	1	Magnetic	1	CFL-20W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downright Retrofit (1000 lm)	1	C147A - nLight Power Pack (1)-Wired	1			
143	1	B124 Office - 10114	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	C147 - nLight Dimmer Switch (1)-Wired	1			
144	1	B123 Office - 10113	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	C147 - nLight Dimmer Switch (1)-Wired	1			
145	1	Corridor - 10117	2X4 Fluorescent	2	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (3,600 lm)	2	no change				
146	1	Corridor - 10117	8' Potlight	3	Magnetic	1	CFL-20W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downright Retrofit (1000 lm)	3	no change				
147	1	B116 Office - 10112	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	3	C147 - nLight Dimmer Switch (1)-Wired	1			
148	1	B115 Office - 10111	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	3	C147 - nLight Dimmer Switch (1)-Wired	1			
149	1	B114 Office - 10110	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	3	C147 - nLight Dimmer Switch (1)-Wired	1			
150	1	B113 Office - 10108	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	C147 - nLight Dimmer Switch (1)-Wired	1			
151	1	B110 Storage - 10109	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (3,600 lm)	1	no change				
152	1	B109 Storage - 10106	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (3,600 lm)	2	no change				
153	1	B102 Admin Waiting Area - 10101	2X4 Fluorescent	3	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	3	C147A - nLight Dimmer Switch, 2 Pole (1)-Wired	1			
154	1	B102 Admin Waiting Area - 10101 EM	2X4 Fluorescent	1	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	1	C147A - nLight Dimmer Switch, 2 Pole (1)-Wired	1			
155	1	B101/B102/B112 (10102A) Admin Office - 10102	2X4 Fluorescent	15	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	15	C147A - nLight Dimmer Switch, 2 Pole (1)-Wired	2			
156	1	B101/B102/B112 (10102A) Admin Office - 10102	8' Potlight	5	Magnetic	1	CFL-20W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downright Retrofit (1000 lm)	5	C147A - nLight Dimmer Switch (1)-Wired	1			
157	1	B101/B102/B112 (10102A) Admin Office - 10102	8' Potlight	2	Magnetic	1	CFL-20W-G24d-Quad, 2-pin-Mag	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	2	no change				
158	1	B101 Vestibule - 10103	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (3,600 lm)	1	no change				
159	1	W/R - 10104	1X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm)-Occupancy Sensor	1	C125 - OS - Fixture Integrated	1			
160	1	W/R - 10105	1X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm)-Occupancy Sensor	1	C125 - OS - Fixture Integrated	1			
161								A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (~4,000 lm)-nLight- Relocate	16	C147C - nLight Dimmer Switch, 2 Pole (1), Occupancy Sensor (1)-Wired	1			
162	1	B141 Storage - 10129	2X4 Fluorescent	5	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,600 lm)	5	no change				
163	1	B140 Electrical Rm - 10120 (Estimate)	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5ft Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	no change					
164	1	B140 Electrical Rm - 10120	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5ft Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	no change					
165	1	B138 Prep Rm - 10132	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (~4,000 lm)-nLight- Relocate	3	C147 - nLight Dimmer Switch (1)-Wired	1			
166	1	B138 Prep Rm - 10132	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	no change				
167	1	B139 Storage Rm - 10133	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5ft Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	no change					
168	1	B128 Bus Ed Class - 10134	2X4 Fluorescent	15	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	15	C147C - nLight Dimmer Switch, 2 Pole (1), Occupancy Sensor (1)-Wired	1			
169	1	B129 Meeting Rm - 10135	2X4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	4	C147 - nLight Dimmer Switch (1)-Wired	2			
170	1	B130 Bus Ed Class - 10137	2X4 Fluorescent	15	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (~4,000 lm)-nLight- Relocate	15	C147C - nLight Dimmer Switch, 2 Pole (2), Occupancy Sensor (2)-Wired	1			
171	1	B137 Seminar Rm - 10136 (Dimming)	2x4 LED Panel 35W	2	Electronic	1	2x4 LED Panel 35W	W20	N/A	No Change	2	no change				

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RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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Seq #	Floor	Area Name	EXISTING					LIGHTING UPGRADE					Control Type	# Controls	Notes:
			Luminaire Description	Luminaire Quantity	Ballast Type	Lamps / Luminaire	Lamp Type	Type	Lamp	Luminaire Description	Luminaire Quantity				
172	1	B131 Classroom - 10138, B131 Office - 10138A	2X4 Fluorescent	9	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	9	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
173	1	B131 Office - 10141B / 10141C / 10141	2X4 Fluorescent	9	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	9	C147D - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (2)-Wired	1		
174	1	B131 Office - 10141B / 10141C / 10141 EM	2X4 Fluorescent	1	Electronic	1	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	1	C147E - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (2)-Wired	1		
175	1	B131 Office - 10141	Exit Sign	1	Electronic	1	EXIT SIGN - CRL E1	A2-LED-FP-n	N/A	New: Indoor Self-powered LED Exit Sign	1	No Change	1		
176	1	B135 W/R - 10139	1X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	1	C125 - OS - Fixture Integrated	1		
177	1	B132 Quiet Rm - 10140 (Dimming)	6" Potlight	2	Electronic	1	10W LED	M20	N/A	No Change	2	No Change	1		
178	1	B136 Custodian - 10142	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	2	C147F - nLight Dimmer Switch- 1 Pole (1)	1		
179	1	B134 W/R - 10143	6" Potlight	2	Electronic	1	10W LED	M20	N/A	No Change	2	No Change	1		
180	1	B133 Custodian - 10144	1X4 Fluorescent	1	Electronic	1	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	1	C125 - OS - Fixture Integrated	1		
			A Wing - 2nd Floor												
181	2	A201 Gallery - Atrium Perimeter - 20100	10" Potlight	14	1	LED: Lamp 12W	P10-GE	N/A	New: 10" Diameter Recessed LED Downlight Retrofit (~3000 lm)	14	No Change	1			
182	2	A201 Gallery - Atrium Perimeter - 20100	8" Potlight	8	Magnetic	2	CFL-26W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8" Diameter Recessed LED Downlight Retrofit (1000 lm)	8	C125 - OS - Fixture Integrated	1		
183	2	A201 Gallery - Atrium Perimeter - 20100	Exit Sign	2	2	2	EXIT SIGN - LED	V20	N/A	No Change	2	No Change	1		
184	2	A209 Mechanical Rm - 20157	4" Industrial	4	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED-9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	4	No Change	1			
185	2	A204 Staffroom Entrance - 20158	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W	P8-GE	N/A	New: 8" Diameter Recessed LED Downlight Retrofit (1000 lm)	3	No Change	1		
186	2	A203 Staffroom Kitchen - 20162	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3.800 lm)	2	No Change	1		
187	2	A204 Staffroom - 20165	2X4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
188	2	A204 Staffroom - 20165	2X4 Fluorescent	4	Electronic	2	4FT (F32T8)-32W	V21-T	Remove Fluorescent, Replace Ceiling Tile	4	No Change	1			
189	2	A206 Mens W/R - 20164, 20163	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	2	C125 - OS - Fixture Integrated	1		
190	2	A206 Mens W/R - 20164, 20163 EM	1X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	1	C125 - OS - Fixture Integrated	1		
191	2	A206 Mens W/R - 20164, 20163	4" Cube	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	1	C125 - OS - Fixture Integrated	1		
192	2	A207 Women's W/R - 20160, 20159	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	2	C125 - OS - Fixture Integrated	1		
193	2	A207 Women's W/R - 20160, 20159 EM	1X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	1	C125 - OS - Fixture Integrated	1		
194	2	A207 Women's W/R - 20160	4" Cube	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	1	C125 - OS - Fixture Integrated	1		
195	2	A202 Control Booth - 20101	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	2	C147A - nLight Dimmer Switch- 2 Pole (1)-Wired	1		
196	2	A202 Control Booth - 20101	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	V21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	2	No Change	1		
197	2	Starwell #1	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	2	C125 - OS - Fixture Integrated	1		
198	2	Starwell #1	Exit Sign	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	1	C125 - OS - Fixture Integrated	1		
199	2	Starwell #2	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	2	C125 - OS - Fixture Integrated	1		
200	2	Starwell #2	4" Cube	3	Electronic	1	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	3	C125 - OS - Fixture Integrated	1		
201	2	Starwell #2	Exit Sign	1	Electronic	1	EXIT SIGN - LED	E1	N/A	New: Indoor Self-powered LED Exit Sign	1	No Change	1		
202	2	Starwell #2	Exit Sign	1	Electronic	1	EXIT SIGN - CRL								
			C Wing - 2nd Floor												
203	2	C201 - C Wing Corridor 20102	6" Potlight	10	Magnetic	1	CFL-26W-G24d-Quad, 2-pin-Mag	P8-GE	N/A	New: 8" Diameter Recessed LED Downlight Retrofit (1000 lm)	10	No Change	1		
204	2	C201 - C Wing Corridor 20102, High Ceiling	1X4 Fluorescent	12	Electronic	4	4FT (F32T8)-32W	R14-LED-HC	F32T8LED-9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (4)	12	No Change	1			
205	2	C201 - C Wing Corridor 20102, Low Ceiling	1X4 Fluorescent	5	Electronic	4	4FT (F32T8)-32W	R14-LED-HC	F32T8LED-9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (4)	5	No Change	1			
206	2	C201 - C Wing Corridor 20102, High Ceiling	1X4 Fluorescent	8	Electronic	4	F54T5HO (45 Z")	R14-LED-HC	F54T5LED-24G T5HO drier, F54T5LED lamps (4)- High Ceiling	8	No Change	1			
207	2	C201 - C Wing Corridor 20102	Explosion Proof - Decorative	6	Magnetic	1	CFL-13W-GX24-Quad, 2-pin-Mag	V22	N/A	Remove/Install Cover Plate	6	No Change	1		
208	2	C201 - C Wing Corridor 20102	Exit Sign	3	Electronic	1	EXIT SIGN - LED	V20	N/A	No Change	3	No Change	1		
209	2	C207 Open Study Area - 20155	Explosion Proof - Decorative	6	Magnetic	1	CFL-13W-GX24-Quad, 2-pin-Mag	W22	N/A	Remove/Install Cover Plate	6	No Change	1		
210	2	C207 Open Study Area - 20155	4" Task Light Direct (30%)	4	Electronic	1	4FT (F32T8)-32W	R9-LED	F32T8LED-9.5 Retrofit: T8 HE ballast, F32T8 LED lamp (1)	4	No Change	1			
211	2	C208 Prep Room - 20156	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	2	C147 - nLight Dimmer Switch (1)-Wired	1		
212	2	C208 Prep Room - 20156	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	V21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	No Change	1		
213	2	C209 Prep Room - 20154	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	2	C147 - nLight Dimmer Switch (1)-Wired	1		
214	2	C209 Prep Room - 20154	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	V21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	No Change	1		
215	2	C202 Classroom - 20153	2X4 Fluorescent	11	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	11	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
216	2	C202 Classroom - 20153	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
217	2	C203 Classroom - 20152	2X4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
218	2	C203 Classroom - 20152	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
219	2	C204 Classroom - 20151	2X4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
220	2	C204 Classroom - 20151	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
221	2	C205 Classroom - 20150	2X4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
222	2	C205 Classroom - 20150	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
223	2	C206 Classroom - 20149	2X4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
224	2	C206 Classroom - 20149	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
225	2	C210 Classroom - 20148	2X4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
226	2	C210 Classroom - 20148	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
227	2	C211 Classroom - 20147	2X4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
228	2	C211 Classroom - 20147	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
229	2	C212 Classroom - 20146	2X4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
230	2	C212 Classroom - 20146	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
231	2	C213 Classroom - 20145	2X4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
232	2	C213 Classroom - 20145	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
233	2	C214 Classroom - 20144	2X4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
234	2	C214 Classroom - 20144	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-RELn	N/A	New: 2x4 Recessed Flat Panel LED (4.000 lm)-nLight- Relocate	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
235	2	Star #6	4" Cube	3	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	3	C125 - OS - Fixture Integrated	1		
236	2	Star #6	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	2	C125 - OS - Fixture Integrated	1		
237	2	Star #6	1X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LED-OS	N/A	New: 4' Wrap LED (4.000 lm)- Occupancy Sensor	1	C125 - OS - Fixture Integrated	1		

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Seq #	Floor	Area Name	EXISTING	Luminaire Description	Luminaire Quantity	Ballast Type	Lamps / Luminaire	Lamp Type	LIGHTING UPGRADE	Type	Lamp	Luminaire Description	Luminaire Quantity	Control Type	# Controls	Notes:
237	2	Stair #6	Ext Sign	1	Electronic	1	EXIT SIGN - LED		W20	N/A	No Change		1	no change		
238	2	C215 Storage Entrance - 20141	8" Potlight	1	Magnetic	1	CFL-28W/G24d-Quad, 2-pin-Mag		P8-GE	N/A	New: 8" Diameter Recessed LED Downright Retrofit (1000 lm)	1	no change			
239	2	C216 Boys W/R - 20141	8" Potlight	2	Electronic	2	CFL-28W/G24d-Quad		P8-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	2	no change				
240	2	C216 Boys W/R - 20142	8" Potlight	1	Magnetic	1	CFL-28W/G24d-Quad, 2-pin-Mag		P8-GE	N/A	New: 8" Diameter Recessed LED Downright Retrofit (1000 lm)	1	no change			
241	2	C216 Boys W/R - 20142	1X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W		C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	3	C125 - OS - Fixture Integrated			
242	2	C216 Boys W/R - 20142	4" Cube	2	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	1	C125 - OS - Fixture Integrated				
243	2	C216 Janitors - 20143	4" Industrial	1	Electronic	2	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	15	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
244	2	C218 Classroom - 20135	2X4 Fluorescent	15	Electronic	3	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	2	no change			
245	2	C227 Corridor - 20134	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W		A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	1	no change			
246	2	C227 Corridor - 20134 EM	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W		A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	1	no change			
247	2	C227 Corridor - 20134	Ext Sign	1	Electronic	1	EXIT SIGN - LED		W20	N/A	No Change		1	no change		
248			2X4 Fluorescent	12	Electronic	3	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
249			2X4 Fluorescent	12	Electronic	3	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
250			2X4 Fluorescent	12	Electronic	3	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
251	2	C222 L4 Storage - 20130	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W		A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	3	C125 - OS - Fixture Integrated			
252	2	C224 Custodian - 20129	4" Industrial	1	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	1	C125 - OS - Fixture Integrated				
253	2	C223 Womens W/R - 20128	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W		C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	2	C125 - OS - Fixture Integrated			
254	2	C223 Womens W/R - 20128	8" Potlight	1	Magnetic	1	CFL-28W/G24d-Quad, 2-pin-Mag		P8-GE	N/A	New: 8" Diameter Recessed LED Downright Retrofit (1000 lm)	1	no change			
255	2	C223 Womens W/R - 20128	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W		C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	2	C125 - OS - Fixture Integrated			
256	2	C223 Womens W/R - 20128	4" Cube	2	Electronic	2	4FT (F32T8)-32W		C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	2	C125 - OS - Fixture Integrated			
257	2	C225 Science - 20136	2X4 Fluorescent	37	Electronic	3	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	37	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
258	2	C225 Science - 20136	1X8 Fluorescent	4	Electronic	4	4FT (F32T8)-32W		R14-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (4)	4	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1			
259	2	C225 Science - 20136	1X12 Fluorescent	4	Electronic	6	4FT (F32T8)-32W		R16-LED	F32T8LED- 9.5 Retrofit T8 HE ballast (2), F32T8 LED lamps (6)	4	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1			
260	2	C225 Science - 20136	Ext Sign	2	Electronic	1	EXIT SIGN - LED		W20	N/A	No Change		2	no change		
261	2	B226 Science Prep Rm - 20137	2X4 Fluorescent	11	Electronic	2	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	11	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
262	2	B226 Science Prep Rm - 20137	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	3	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
263			2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W		A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	3	no change			
264			4" Industrial	3	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (3)	3	no change				
265	3	Mechanical Room - Above Science Lab C225	4" Industrial	8	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	8	no change				
266	3	Mechanical Room - Above Science Lab C225 EM	4" Industrial	2	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	2	no change				
267	3	Boiler Room	4" Industrial	2	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	2	no change				
		B-Wing 2nd Floor							A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	3	no change			
268	2	B227 Corridor - 20120	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (3)	3	no change				
269	2	B227 Corridor - 20120	Ext Sign	1	Electronic	1	EXIT SIGN - LED		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	8	no change				
270			2X4 Fluorescent	15	Electronic	3	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	2	no change				
271	2	B216 - Female W/R - 20117	8" Potlight	1	Magnetic	1	CFL-28W/G24d-Quad, 2-pin-Mag		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	15	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
272	2	B216 - Female W/R - 20117	1X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W		P8-GE	N/A	New: 8" Diameter Recessed LED Downright Retrofit (1000 lm)	1	no change			
273	2	B216 - Female W/R - 20117	4" Cube	2	Electronic	2	4FT (F32T8)-32W		C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	3	C125 - OS - Fixture Integrated			
274	2	B216 - Female W/R - 20118	4" Industrial	1	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	1	no change				
275	2	B215 - Storage - 20116	4" Industrial	2	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	2	no change				
276	2	Stairway # 5	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W		C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	2	C125 - OS - Fixture Integrated			
277	2	Stairway # 5	4" Cube	3	Electronic	2	4FT (F32T8)-32W		C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	3	C125 - OS - Fixture Integrated			
278	2	Stairway # 5	Ext Sign	1	Electronic	1	EXIT SIGN - LED		W20	N/A	No Change		1	no change		
279	2	B219 Classroom - 20121	2X4 Fluorescent	12	Electronic	3	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
280	2	B220 Classroom - 20122	2X4 Fluorescent	12	Electronic	3	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
281	2	B221 Classroom - 20123	2X4 Fluorescent	12	Electronic	3	4FT (F32T8)-32W		A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)-Wired	1		
282	2	B222 L4 Storage - 20124	2X4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W		A2-LED-FP	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm)	3	no change			
283	2	B224 Custodian - 20125	4" Industrial	1	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	1	no change				
284	2	B223 Mens W/R - 20126	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W		C2-LED-FP	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	2	C125 - OS - Fixture Integrated			
285	2	B223 Mens W/R - 20126	8" Potlight	1	Magnetic	1	CFL-28W/G24d-Quad, 2-pin-Mag		P8-GE	N/A	New: 8" Diameter Recessed LED Downright Retrofit (1000 lm)	1	no change			
286	2	B223 Mens W/R - 20126	1X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W		C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	2	C125 - OS - Fixture Integrated			
287	2	B223 Mens W/R - 20126	4" Cube	2	Electronic	2	4FT (F32T8)-32W		C2-LED-OS	N/A	New: 4 Wrap LED (4,000 lm) - Occupancy Sensor	2	C125 - OS - Fixture Integrated			
288	2	Elevator - 20127	4" Strip	1	Electronic	2	4FT (F32T8)-32W		R10-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (2)	1	no change				
289	2	B201 - B Wing Corridor 20102	8" Potlight	10	Magnetic	1	CFL-28W/G24d-Quad, 2-pin-Mag		P8-GE	N/A	New: 8" Diameter Recessed LED Downright Retrofit (1000 lm)	10	no change			
290	2	B201 - B Wing Corridor 20102 - High Ceiling	4" Fluorescent	12	Electronic	4	4FT (F32T8)-32W		R14-LED-HC	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (4) - High Ceiling	12	no change				
291	2	B201 - B Wing Corridor 20102 - Low Ceiling	1X4 Fluorescent	6	Electronic	4	4FT (F32T8)-32W		R14-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (4)	6	no change				
292	2	B201 - B Wing Corridor 20102 - High Ceiling	1X4 Fluorescent	8	Electronic	4	4FT (F32T8)-32W		R14-LED-HC	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamps (4) - High Ceiling	8	no change				
293	2	B201 - B Wing Corridor 20102	Explosion Proof - Decorative	6	Magnetic	1	CFL-13W/GX23-Quad, 2-pin-Mag		W22	N/A	Remove/Install Cover Plate	B	no change			
294	2	B201 - B Wing Corridor 20102	Ext Sign	3	Electronic	1	EXIT SIGN - LED		W20	N/A	No Change	3	no change			
295	2	B207 Open Study Area - 20114	Explosion Proof - Decorative	6	Magnetic	1	CFL-13W/GX23-Quad, 2-pin-Mag		W22	N/A	Remove/Install Cover Plate	B	no change			
296	2	B207 Open Study Area - 20114	4" Task Light Direct (90%)	4	Electronic	1	4FT (F32T8)-32W		R9-LED	F32T8LED- 9.5 Retrofit T8 HE ballast, F32T8 LED lamp (1)	4	no change				
297	2	B208 Prep Room - 20115	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W		A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (-4,000 lm) - nLight - Relocate	2	C147 - nLight Dimmer Switch (1)-Wired	1		
298	2	B208 Prep Room - 20115	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W		W21-1	N/A	Remove Fluorescent, Replace Ceiling Tile		no change			
299	2	B209 Prep Room - 20113	2X4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W		A2-LED-FP-REL-n	N/A	New: 2x4 Recessed Flat Panel LED (-4,000 lm) - nLight - Relocate	2	C147 - nLight Dimmer Switch (1)-Wired	1		
300	2	B209 Prep Room - 20113	2X4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W		W21-1	N/A	Remove Fluorescent, Replace Ceiling Tile	1	no change			

SCHOOL DISTRICT NO. 38 (RICHMOND)

SECTION 00700

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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Seq #	Floor	Area Name	EXISTING					LIGHTING UPGRADE					# Controls	Notes:	
			Luminaire Description	Luminaire Quantity	Ballast Type	Lamps / Luminaire	Lamp Type	Type	Lamp	Luminaire Description	Luminaire Quantity	Control Type			
301		B202 Classroom - 20103	2x4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
302	2	B202 Classroom - 20103	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
303		B203 Classroom - 20104	2x4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
304	2	B203 Classroom - 20104	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
305		B204 Classroom - 20105	2x4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
306	2	B204 Classroom - 20105	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
307		B205 Classroom - 20106	2x4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
308	2	B205 Classroom - 20106	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
309		B206 Classroom - 20107	2x4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
310	2	B206 Classroom - 20107	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
311		B210 Classroom - 20108	2x4 Fluorescent	12	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	12	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
312	2	B210 Classroom - 20108	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
313		B211 Classroom - 20109	2x4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
314	2	B211 Classroom - 20109	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
315		B212 Classroom - 20110	2x4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
316	2	B212 Classroom - 20110	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
317		B213 Classroom - 20111	2x4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
318	2	B213 Classroom - 20111	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
319		B214 Classroom - 20112	2x4 Fluorescent	10	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	10	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
320	2	B214 Classroom - 20112	2x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	W21-T	N/A	Remove Fluorescent, Replace Ceiling Tile	1	C147C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired			
321	1	Mechanical Room 10179- Ext. Access (Estimate)	4' Industrial	3	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	3	no change				
322	1	Secure Storage 10176- Ext. Access (Estimate)	4' Industrial	3	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	3	no change				
323	1	Mechanical Room 10146- Ext. Access (Estimate)	4' Industrial	3	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	3	no change				
324	1	Mechanical Room 10400- Separate Building (Estimate)	4' Industrial	6	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	6	no change				
325	1	Electrical Room 10401- Separate Building (Estimate)	4' Industrial	4	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	4	no change				
326	1	Shed 10402- Separate Building (Estimate)	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	no change				
327	1	Shed 10403- Separate Building (Estimate)	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	1	no change				
		Gym Building - 1st Floor													
328	1	D107 Gym Entrance Corridor - 10300, 10305, 10306	8' Potlight	26	Magnetic	1	CFL-26W-G344-Quad, 2-pin-Mag	P8-GE	N/A	New: 8' Diameter Recessed LED Downright Retrofit (1000 lm)	26	no change			
329	1	D107 Gym Entrance Corridor - 10300, 10305, 10306	Ext Sign	2	Electronic	1	EXIT SIGN - LED	W20	N/A	No Change	2	no change			
330	1	D106 Gym Office - 10307	2x4 Fluorescent	4	Electronic	3	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	4	C147C - nLight Dimmer Switch (1)-Wired			
331	1	D123 Gym Office - 10309	2x4 Fluorescent	2	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-n	N/A	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	2	C147C - nLight Dimmer Switch (1)-Wired			
332	1	D103 Boys Locker Rm - 10310	1x4 Fluorescent	11	Electronic	2	4FT (F32T8)-32W	C2-LD-OS	N/A	New: 4 Wrap LED (4,000 lm)-Occupancy Sensor	11	C125 - OS - Fixture Integrated			
333	1	D123 Boys Shower - 10309	1x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LD-OS	N/A	New: 4 Wrap LED (4,000 lm)-Occupancy Sensor	1	C125 - OS - Fixture Integrated			
334	1	D117 D122 Boy's Locker Rm - 10310, 10313, 10314, 10316	1x4 Fluorescent	16	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	16	no change				
335	1	D117 D122 Boy's Locker Rm - 10310, 10313, 10314, 10316	4' Cube	3	Electronic	2	4FT (F32T8)-32W	C2-LD-OS	N/A	New: 4 Wrap LED (4,000 lm)-Occupancy Sensor	3	C125 - OS - Fixture Integrated			
336	1	D118 Sprinkler Rm - 10319	4' Industrial	2	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	2	no change				
337	1	D116 Sprinkler Rm - 10320	4' Industrial	4	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	4	no change				
338	1	D116 Ext Corridor - 10320	Ext Sign	1	Electronic	1	EXIT SIGN - LED	W20	N/A	No Change	1	no change			
339	1	East Stairwell #12 - 12312	1x4 Fluorescent	1	Electronic	2	4FT (F32T8)-32W	C2-LD-OS	N/A	New: 4 Wrap LED (4,000 lm)-Occupancy Sensor	1	C125 - OS - Fixture Integrated			
340	1	East Stairwell #12 - 12312	Wall Pack	2	Electronic	2	LED Lamps 14W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	2	no change				
341	1	D112 D113 Girls Locker Rm - 10320, 10323, 10326, 10327, 10328	1x4 Fluorescent	16	Electronic	2	4FT (F32T8)-32W	C2-LD-OS	N/A	New: 4 Wrap LED (4,000 lm)-Occupancy Sensor	16	no change			
342	1	D112 D113 Girls Locker Rm - 10320, 10323, 10326, 10327, 10328	1x4 Fluorescent	13	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	13	no change				
343	1	D112 D113 Girls Locker Rm - 10321, 10323, 10326, 10327, 10328	4' Potlight	4	Magnetic	2	CFL-26W-G344-Quad, 2-pin-Mag	P8-GE-OF	N/A	New: 8' Diameter Recessed LED Downright Retrofit (1000 lm)- God	4	no change			
344	1	West Stairwell #11 - 12311	4' Industrial	1	Electronic	2	4FT (F32T8)-32W	C2-LD-OS	N/A	New: 4 Wrap LED (4,000 lm)-Occupancy Sensor	1	C125 - OS - Fixture Integrated			
345	1	West Stairwell #11 - 12311	Wall Pack	1	Electronic	2	LED Lamp 14W	W20	N/A	No Change	1	no change			
346	1	D101 Gym A - 10301	1x4 Gym	30	Electronic	4	F54T5HO (45' 2")	R11-LED-HC	F54T5LED-24.0 Retrofit: T5HO driver, F54T5LED lamps (4)- High Ceiling	30	no change				
347	1	D114 Gym B - 10329	1x4 Gym	24	Electronic	4	F54T5HO (45' 2")	R11-LED-HC	F54T5LED-24.0 Retrofit: T5HO driver, F54T5LED lamps (4)- High Ceiling	24	no change				
		Gym Building - 2nd Floor													
348	2	D206 Corridor- Work Room - 20300	4' Industrial W/G	9	Electronic	2	4FT (F32T8)-32W	A2-LED-FP-REL	N/A	New: 2x4 Recessed Flat Panel LED (3,800 lm) - Relocate	9	no change			
349	2	D206 Corridor - 20300	Ext Sign	2	Electronic	1	EXIT SIGN - LED	W20	N/A	No Change	2	no change			
350	2	D205 Storage - 20305	4' Industrial	12	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	12	no change				
351	2	D205 Storage - 20304	4' Industrial	12	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	12	no change				
352	2	D203 Electrical Rm - 20303	4' Industrial	2	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	2	no change				
353	2	D202 Mechanical Rm - 20302	4' Industrial	2	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	2	no change				
354	2	D201 Mechanical Rm - 20301	4' Industrial	3	Electronic	2	4FT (F32T8)-32W	R10-LED	F32T8LED- 9.5 Retrofit: T8 HE ballast, F32T8 LED lamps (2)	3	no change				
		Portable Classroom													
355	1	Room 125 - Portable Classroom	1x4 Fluorescent	5	Electronic	2	4FT (F32T8)-32W	C2-LD-AIR	N/A	New: 4 Wrap LED (4,000 lm)- Wireless	5	CT46A - nLight Dimmer Switch- 2 Pole (1)- Wireless			
356	1	Room 125 - Portable Classroom	1x4 Fluorescent	3	Electronic	2	4FT (F32T8)-32W	S4	N/A	Remove Fluorescent	3	no change			
357	1	Room 125 - Portable Classroom	1x4 Fluorescent	5	Electronic	2	4FT (F32T8)-32W	C2-LD-AIR	N/A	New: 4 Wrap LED (4,000 lm)- Wireless	5	CT46A - nLight Dimmer Switch- 2 Pole (1)- Wireless			
358	1	Room 125 - Portable Classroom	1x4 Fluorescent	14	Electronic	2	4FT (F32T8)-32W	S4	N/A	Remove Fluorescent	14	no change			
359	1	Room 125 - Portable Classroom	Ext Sign	2	Electronic	1	EXIT SIGN - LED	W20	N/A	No Change	2	no change			
		Exterior Lighting													
360		Covered Walkway Canopy including Gym Area & East School Wall Scones Surface Mount	1x4 Fluorescent	13	Electronic	1	LED Canopy Light 40W	W20	N/A	No Change	13	no change			
361		Exterior Mounted Flood Light	Flood	2	Magnetic	1	MH-175W	S4	N/A	New: LED Wall Pack- Wide (3,200+ Lm: Forward Throw)	2	no change			
362		Decorative Wall Sconce - Entire Outside Perimeter	Wall Pack (12' Dia.)	26	Electronic	1	LED Lamp 14W	S4	N/A	New: LED Wall Pack- Wide (3,200+ Lm: Forward Throw)	26	no change			
363		Softening Downlights - Entire Outside Perimeter	10' Potlight	1	Magnetic	1	HPS 50W	P6-GE-QF	N/A	New: 8' Diameter Recessed LED Downlight Retrofit (1000 lm)- God	1	no change			
364		Softening Downlights - Entire Outside Perimeter	10' Potlight	5	Electronic	1	CFL-26W-Batten(in)	P6-GE-QF	N/A	New: 8' Diameter Recessed LED Downlight Retrofit (1000 lm)- God	5	no change			
365		Building Downlights - Entire Outside Perimeter	10' Floodlight	21	Electronic	1	LED Lamp 14W	P6-GE-QF	N/A	New: 8' Diameter Recessed LED Downlight Retrofit (1000 lm)- God	21	no change			

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SCHOOL DISTRICT NO. 38 (RICHMOND)

SECTION 00750

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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PRODUCT SPECIFICATIONS

Quantity	Luminaire Type	Lamp Type	Lamp Wattage	# Lamps / Luminaire	Ballasts/ Luminaire	Luminaire Description	Product Specification
71	A2-LED-FP	LED	29W	1	1	New: 2x4 Recessed Flat Panel LED (3,800 lm)	Lithonia: CPX 2X4 ALO8 SWW7 M2
21	A2-LED-FP-REL	LED	29W	1	1	New: 2x4 Recessed Flat Panel LED (3,800 lm)- Relocate	Lithonia: CPX 2X4 ALO8 SWW7 M2
756	A2-LED-FP-n	LED	30.4W	1	1	New: 2x4 Recessed Flat Panel LED (4,000 lm)-nLight	Lithonia: EPANL 2x4 4000LM 80CRI 35K MIN1 NLIGHT MVOLT
107	A2-LED-FP-REL-n	LED	30.4W	1	1	New: 2x4 Recessed Flat Panel LED (~4,000 lm)- nLight- Relocate	Lithonia: EPANL 2x4 4000LM 80CRI 35K MIN1 NLIGHT MVOLT
16	A2-LED-FP-HC-n	LED	30.4W	1	1	New: 2x4 Recessed Flat Panel LED (~4,000 lm)- nLight- High Ceiling	Lithonia: EPANL 2x4 4000LM 80CRI 35K MIN1 NLIGHT MVOLT
1	A7-LED-FP-REL-n	LED	31W	1	1	New: 2x2 Flat Panel LED (3,000 lm)-nLight- Relocate	Lithonia: SPANL 2x2 3400LM 80CRI 40K MIN1 M VOLT NLTAIR2
93	C2-LED-OS	LED	35W	1	1	New: 4' Wrap LED (4,000 lm)- Occupancy Sensor	Lithonia: BLWP4 40L ADPT EZ1 LP835 MSDPD7
10	C2-LED-AIR	LED	35W	1	1	New: 4' Wrap LED (4,000 lm)- Wireless	Lithonia: BLWP4 40L ADPT EZ1 LP835 NLTAIR2 REST
30	C2-LED-AIR-HO-HC	LED	49W	1	1	New: 4' Wrap LED (6,000 lm)- Wireless- High Output	Lithonia: BLWP4 60L ADPT EZ1 LP835 NLTAIR2 REST
9	E1	LED	2W	1	0	New: Indoor Self-powered LED Exit Sign	Emergi-Lite: ECS1
3	K2-LED-HC	LED	197W	1	1	New: LED High-bay (24,000lm)	Lithonia: IBL-24L-W-MVOLT-LP835
2	L24B	LED9.5W	9.5W	1	0	LED: 9.5W Dimmable (A19 retrofit) 2200-2700K	Philips: 9.5A19/2200-2700 DIM 6/1
23	L29E	LED4.5W	4.5W	1	0	LED: 4.5W Dimmable Globe 2700K (G25 Med base)	Philips: 4.5G25/LED/827/ND 120V
1	P4-GE	LED	13W	1	1	New: 4" Diameter Recessed LED Downlight Retrofit (1,000 lm)	GE: LRX-R4-10-35-MD
175	P8-GE	LED	13W	1	1	New: 8" Diameter Recessed LED Downlight Retrofit (1000 lm)	GE: LRX-R8-10-35-MD
29	P8-GE-GF	LED	13W	1	1	New: 8" Diameter Recessed LED Downlight Retrofit (1000 lm)- Goof	GE: LRX-R8-10-35-MD-GRRX8R10PTWT
34	P10-GE	LED	29W	1	1	New: 10" Diameter Recessed LED Downlight Retrofit (~3,000 lm)	GE: LRX-R10-30-35-MD
72	R1-LED-HC	F54T5LED	#N/A	4	1	Retrofit: T5 HO driver, F54T5LED lamps (4)- High Ceiling	Driver: ICN-4S24-TLED-90C-2LS-G [1]; Lamps: Philips 24T5HO/46-840/835 [4]
9	R9-LED	F32T8LED	9.5W	1	1	Retrofit: T8 HE ballast, F32T8 LED lamp (1)	Refer to Additional Product Specification Notes
178	R10-LED	F32T8LED	9.5W	2	1	Retrofit: T8 HE ballast, F32T8 LED lamps (2)	Refer to Additional Product Specification Notes
57	R12-LED-HC	F32T8LED	9.5W	3	1	Retrofit: T8 HE ballast, F32T8 LED lamps (3)- High Ceiling	Refer to Additional Product Specification Notes
47	R12-DIM-LED-HC	F32T8LED	14.0W	3	1	Retrofit: T8 dimming driver, F32T8 LED lamps (3)- High Ceiling	Driver: Philips LZT4P16, Lamps: Philips 1318 LED/48-3500 IF DIM (3)
20	R14-LED	F32T8LED	9.5W	4	1	Retrofit: T8 HE ballast, F32T8 LED lamps (4)	Refer to Additional Product Specification Notes
24	R14-LED-HC	F32T8LED	9.5W	4	1	Retrofit: T8 HE ballast, F32T8 LED lamps (4)- High Ceiling	Refer to Additional Product Specification Notes
4	R16-LED	F32T8LED	9.5W	6	2	Retrofit: T8 HE ballast (2), F32T8 LED lamps (6)	Refer to Additional Product Specification Notes
28	S4	LED	22W	1	1	New: LED Wall Pack- Wide (3,200+ Lm; Forward Throw)	Acuity: TWX2-LED-ALO 40K-MVOLT-DDBTXD
4	S7	LED	40W	1	1	New: LED Canopy (Med.)	Signify: GC60-SCT-G2-SM-5-10-BZ
7	W21	N/A	N/A		0	Remove Fluorescent	n/a
32	W21-T	N/A	0W		0	Remove Fluorescent, Replace Ceiling Tile	n/a
69	W22	N/A	N/A		0	Remove/Install Cover Plate	n/a
15	W22-HC	N/A	0W		0	Remove. High Ceiling	n/a

Basic Controls

Quantity	Description	Product Specification
3	CT36 - Switch	Decora
4	CT46A - nLight Dimmer Switch- 2 Pole (1)- Wireless	Acuity: RPODB-2P-DX-WH-G2 [1], Switch Plate
1	CT46G - nLight Dimmer Switch- 2 Pole (6), nLight Power Pack (6)- Wireless	Acuity: RPODB-2P-DX-WH-G2 [6], rPP20-D-G2 [6], Switch Plates
1	CT46K - nLight Dimmer Switch- 2 Pole (1), nLight Power Pack (5)- Wireless	Acuity: RPODB-2P-DX-WH-G2 [1], rPP20-D-G2 [5], Switch Plates
40	CT47 - nLight Dimmer Switch (1)-Wired	Acuity: nPODM-DX-WH [1], Switch Plate
10	CT47A - nLight Dimmer Switch- 2 Pole (1)-Wired	Acuity: nPODM-2P-DX-WH [1], Switch Plate
42	CT47C - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (1)- Wired	Acuity: nPODM-2P-DX-WH [1], nCM10 ADCX RJB [1], Switch Plate
4	CT47D - nLight Dimmer Switch- 2 Pole (1), Occupancy Sensor (2)- Wired	Acuity: nPODM-2P-DX-WH [1], nCM10 ADCX RJB [2], Switch Plate
1	CT47E - nLight Dimmer Switch (2), Occupancy Sensor (1)- Wired	Acuity: nPODM-DX-WH [2], nCM10 ADCX RJB [1], Switch Plate
2	CT47F - nLight Dimmer Switch- 2 Pole (2), Occupancy Sensor (1)- Wired	Acuity: nPODM-2P-DX-WH [2], nCM10 ADCX RJB [1], Switch Plate
2	CT47G - nLight Dimmer Switch- 2 Pole (2), Occupancy Sensor (2)- Wired	Acuity: nPODM-2P-DX-WH [2], nCM10 ADCX RJB [2], Switch Plate
1	CT47J - nLight Dimmer Switch (1); nLight Power Pack (1)- Wired	Acuity: nPODM-DX-WH [1], nPP16-D-EPF [1], Switch Plate
1	CT47L - nLight Power Pack (1)- Wired	Acuity: nPP16-D-EPF [1]

RE: TENDER NO. 2022-1604 MCMATH SECONDARY LIGHTING UPGRADE

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PRODUCT SPECIFICATIONS

IMPORTANT: Additional Product Specification Notes:

1. T8 ballasts and LED lamps (Luminaire Types "R" retrofits- non-dimming or T5HO) shall be from Philips Lighting, GE Lighting or Osram.
 - a. For Approval: Please submit proposed lamp material, ballast specification and lamp specification.
 - b. Lamp and ballast combinations to be from same manufacturer
 - c. Ballasts to be high efficiency series electronic Instant Start. Normal ballast factor unless otherwise noted or approved.
 - d. F32T8 LED lamps: 1,600 Lumen (min), 12W (max including ballast losses), 70,000 hour L70 (min), 3500K
 - e. Any other T8 LED lamps to be of same series as F32T8LED lamps
2. Ballasts and lamps shall carry a manufacturer's warranty of 5 years.
3. LED luminaires and retrofit kits shall carry a manufacturer's warranty of 5 years minimum and lamps/drivers shall shall be field replaceable.
4. All lamp sockets shall be replaced with new lamp sockets, properly wired according to the ballast manufacturer, whenever ballasts are replaced (ie. retrofits) with the exception of turret sockets in good condition.
5. All new and retrofitted luminaires must include quick disconnects and shall be properly certified and labeled as per electrical code requirements..
6. Luminaire Type with suffix "-HC" are replacing, retrofitting or removing fixtures in a higher ceiling area generally < 40 ft.
7. Type K3-LED-REL-HC: New LED high bays to be installed (suspended) in high ceiling atrium area.
8. Lighting Controls:
 - A significant portion of the line voltage lighting controls (switches) will be replaced with Acuity nLight controls. Most of the existing Douglas low voltage controls will be retained. The nLight controls include both wired (classrooms, offices etc- generally T-bar ceiling) and wireless (drama/stage, atrium, portable).
 - a. Suitable faceplates will need to be provided for all new wall switches/dimmers and blanks for unused switches.
 - b. Types CT46A: Wireless dimmer switches to replace existing line/low voltage switches.
 - c. Type CT46G, CT46K: nLight power pack to control circuits and communicate with wireless dimmer switches.
 - d. Types CT47, CT47A: Wired dimmer switches to replace existing line voltage switches. CAT5e cable will be required from the dimmer switches to the luminaires. Dimming control zones to be programmed by others.
 - e. Type CT47C, CT47D, CT47E, CT47F, CT47G: Wired dimmer switches to replace existing low voltage switches. CAT5e cable will be required from the dimmer switches to the luminaires and occupancy sensors. Dimming control zones to be programmed by others.
 - f. CT47J, CT47L: nLight power pack to control circuits and communicate with wired switch. CAT5e cable will be required from the switches to the power packs. Low voltage 0-10V wiring required from power pack to luminaires when dimming required.
 - g. Occupancy sensor settings and dimming zones will be programmed by others.
 - h. Plenum rated CAT5e cable to be either green or yellow.
 - i. System must be functional following installation by Contractor. Detailed programming and technical support provided by others.
 - j. Applicable Douglas relays must be by-passed within the relay panels and disconnected from the Douglas system when changing over to the nLight system.
 - k. Wiring within the relay panels must be labeled indicating circuits when relays are by-passed. Applicable circuit schedules to be updated within the breaker panels.
 - l. Luminaire ID labels (x2- provided by manufacturer) to be adhered to luminaire (back side) and layout drawing.
 - m. Refer to Section 00600 Project Specifications- 3. Intent of Project & 10. Wiring Methods
9. Contractor to confirm existing lighting circuit layouts, verify and specify voltage of all required fixtures.
10. All new fixtures and re-located fixtures are to be supported or braced with struts or wires as required to resist seismic forces and avoid injury to occupants, as described in the ECA Seismic Restraint Handbook.
11. Contractor to verify mounting details and provide additional hardware if necessary
12. Any replacement ceiling tiles will be provided by Richmond School District No. 38. Contractor to install.
13. Unless agreed with Owner, goods to be warehoused/stored off-site by supplier and delivered as required.
14. Any alternate proposed fixture manufacturers are **subject to advance consultant approval**.
15. All product Shop Drawings must be submitted to Consultant for approval prior to ordering.
16. For additional information, refer to Section 00600 Project Specifications and Section 00700 Outline Scope of Work.

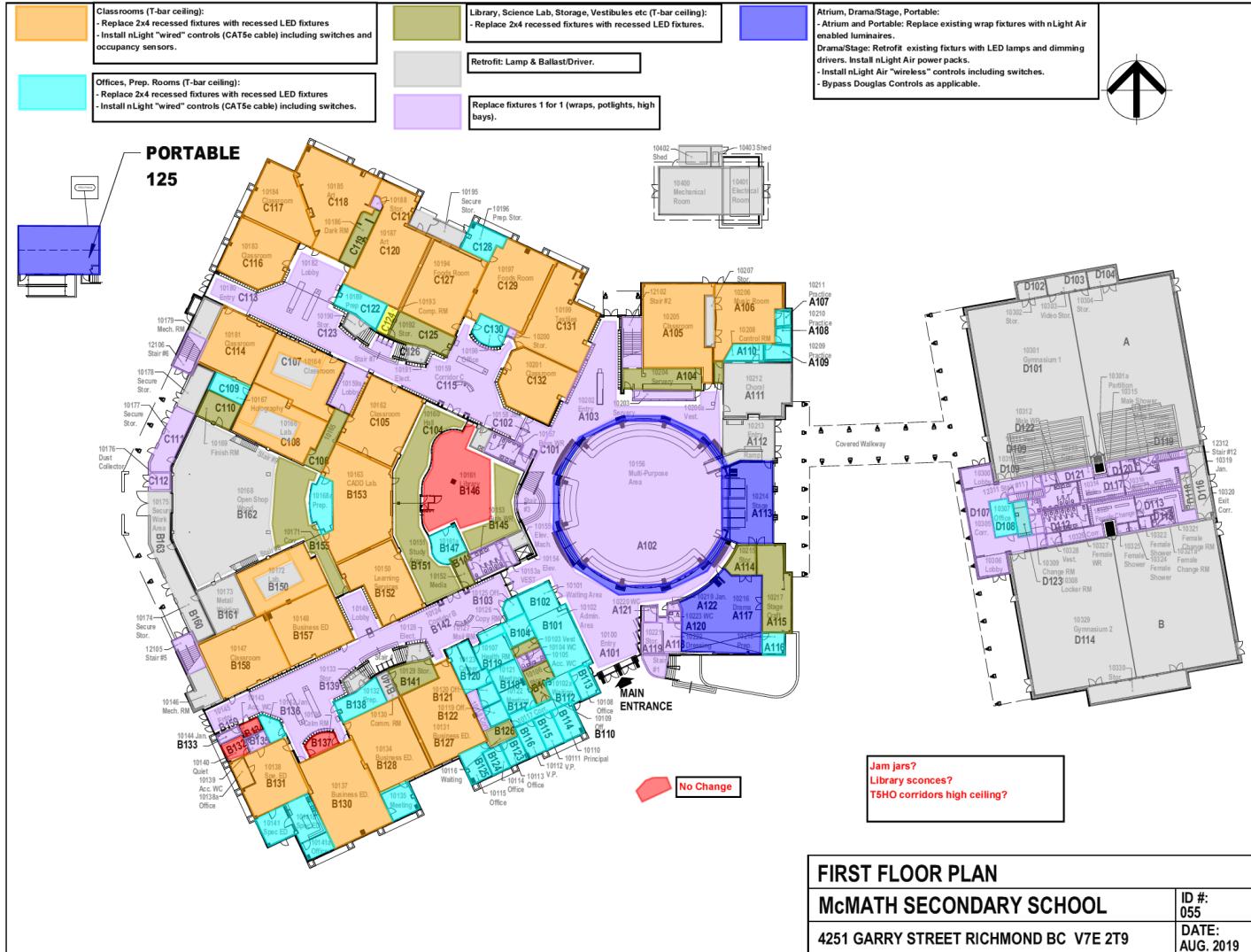
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SCHOOL FLOOR PLAN



SCHOOL DISTRICT NO. 38 (RICHMOND)

SECTION 00800

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