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Office of the President

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To: Board of Trustees

From: Dr. Michael D. Anthony
President

Date: April 20, 2022

Subject: **Purchase Recommendation – Smart Campus Lighting**

Recommendation:
That the Board of Trustees approves the purchase of Intellistreets smart campus lighting from Illuminating Concepts Ltd. Inc. in the amount of $278,282.

Rationale:
As I discussed in my January recommendation, part of my vision for Prairie State College involves modernizing the grounds, campus facilities, branding, marketing and profile in the district. Part of this vision includes taking advantage of new technologies that will enhance both the campus aesthetic and functionality for a post-COVID environment. I am re-prioritizing bond proceeds to this end.

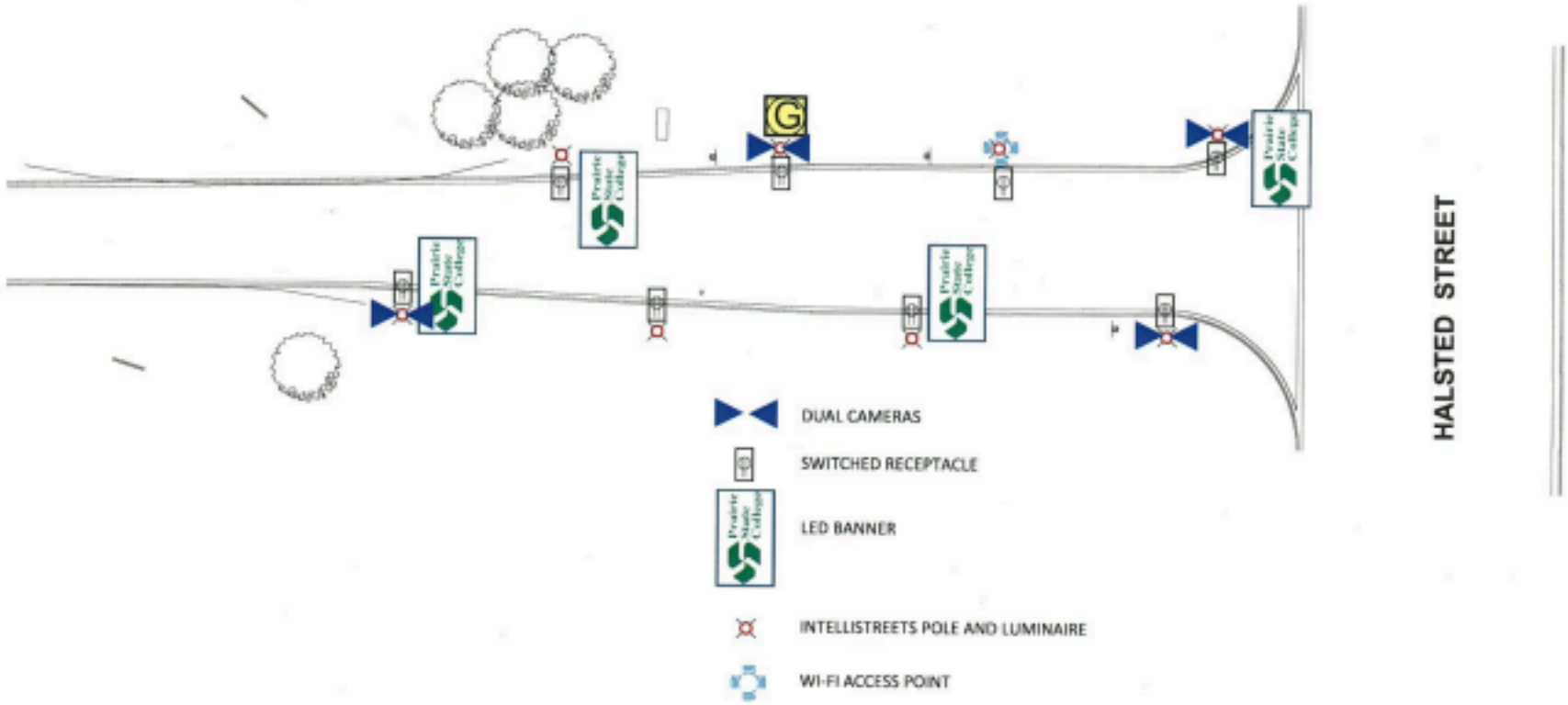
These Intellistreets smart lights will completely revolutionize our front door into campus off of Halsted, and add elements of marketing, security, and wireless access that the institutional does not currently have. These smart lights will also prepare us to apply for additional grant opportunities and give us curricular opportunities for our students seeking careers in the technology field.

A mockup of the placement of these lights is included below. This company is a sole source provider of these smart lights, and uses LiveWire as an authorized service agent for the installation of these lights. That recommendation follows this one.

Funding Source:
Bond Funds

printed on recycled paper

Notes:
Check the width (diameter) of the pier bases
Check the bolt circle and bolt square
What is the bolt size" e.g. 3/4"
Check distance between poles. I get around 45 feet by scaling it
Find out if we can get fiber to both sides of the road (very important)



Prairie State Intellistreets Layout

intellistreets

ILLUMINATING CONCEPTS Ltd.Inc. **Prairie State College**

Updated 4/19/2022 ORDER OF MAGNITUDE PRICE ESTIMATE. Final drawings could modify prices

PROVIDE AN INTELLISTREETS SYSTEM USING A POST TOP MOUNTED (PTM) UNIT AND A HIGH TECH SIDE MOUNTED LUMINAIRE. Note accessories that are included in the estimate.

For Wi-Fi, an Ethernet (Fiber) connection is required

Product	Supplier	Part I.D.	OEM Device Part Number	Description	Quantity	University Wholesale Price	Extension	Per Unit Standard Freight
LIGHTING - Side mount	Illuminating Concepts	CONTINUATION OF LUMINAIRE ESTIMATED PRICE		SLIM PROFILE HI LIGHT OUTPUT	8	$ 2,100	$ 16,800	$ 1,008
POST TOP MODULE	Illuminating Concepts	E-PTM		TOP MOUNTED INTELLISTREETS SYSTEM	8	$ 3,575	$ 28,600	$ 1,716
Cameras	Illuminating Concepts	E-360DAM	E-360DAM	DUAL-CAMERAS LOCATED IN PTM	4	$ 5,200	$ 20,800	$ 1,248
Color Matching				Black or gray				
Receptacle	Illuminating Concepts	E-Outlet	E-Outlet	Switched Receptacle	8	$ 325	$ 2,600	$ 156
POLES	Illuminating Concepts	ISA-20	ISA-20	20 UNDERTRACK 20 ft. 6" ALUMINUM POLE - 0.200 WALL AND BASE COVER	8	$ 2,345	$ 18,760	$ 1,126
XL TECH BASE	Illuminating Concepts	XL-TECH CC	XL-TECH CC	24"SQUARE 20' TALL STEEL BASE FOR ELECTRONICS	8	$ 3,300	$ 26,400	$ 1,584
Wi-Fi	Illuminating Concepts	E-Wi-Fi	E-Wi-Fi	Mount outdoor Wi-Fi systems in the XL Base HARDWARE INCLUDED	1	$ 3,200	$ 3,200	$ 192
Wi-Fi Stealth Antennas	Illuminating Concepts	Wi-Fi - ANT	Wi-Fi - ANT	Wireless Internet 87 mbps bandwidth per antenna	4	$ 325	$ 1,300	$ 78
Mobile Phone Charging Port	Illuminating Concepts	E-CP	E-CP	Charging port located in XL Base	0	$ -	$ -	$ -
Gateway	Illuminating Concepts	E-GW-E	E-GW-E	Ethernet Gateway for fiber to Ethernet data transfer	1	$ 3,500	$ 3,500	$ 210
POE Network Switches	Illuminating Concepts	E-POE NS	E-POE NS	Ethernet switch for Wi-Fi and accessories	7	$ 2,395	$ 16,765	$ 1,005
Power Supplies	Illuminating Concepts	E-POE-PS	E-POE-PS	48 Volt power supply for POE injector	1	$ 965	$ 965	$ 58
SHOP ASSEMBLY	Illuminating Concepts			LABOR TO ASSEMBLE AND TEST ALL LUMINAIRE AND ADDED BY FUNCTIONS	3	$ 1,485	$ 4,455	$ -
LED BANNERS	Illuminating Concepts	E-LED-BAN	E-LED-BAN	24"X 48" DOUBLE SIDED LED BANNER, WITH ARM ITEM, AUTO-DIM, DUCKO BADGE 30 FT WIDE	4	$ 16,500	$ 66,000	$ 3,960
				SUB PRICE OF SYSTEM HARDWARE			$ 230,130	$ 12,364.80
				ACCESSORIES				
Twin 180 degree cameras	Illuminating Concepts	E-360 C	E-360 C	Installed cameras in PTM	0	$ -	$ -	$ -
Weather Station	Illuminating Concepts	E-WS	E-WS SMART ARM Mount	DIRECT WEATHER STATION ON SMART ARM WITH DATA ENABLER	1	$ 7,900	$ 7,900	$ 474.00
Air Quality Sensor Pak	Illuminating Concepts	E-AQSP	E-AQSP	Over 50 air quality values collected and displayed on the user interface. Measured in smart cities shown above	1	$ 8,900	$ 8,900	$ 534.00
PUSH BLUE	Illuminating Concepts	E-PB	E-PB	NOTIFICATION BUTTON WITH TWO WAY VOICE PUSH TALK AND INTELLISTREETS CONNECTIONS FOR ALERTS	0	$ 3,900		$ -

PUSH BLUE	Illuminating Concepts	IS-PB	IS-PB	NOTIFICATION BUTTON WITH TWO WAY SIMOS FULL TALK AND INTELLISTREETS CONNECTIONS FOR AUDIO	0	$	3,500			$	-
Smart Arm	Illuminating Concepts	IS-SA-[illegible]	IS-SA-[illegible]	Smart Arm 27' with 30" high X 22" long for cameras, cellular, air quality sensors etc.	3	$	8,840	$	11,520	$	691.20
Data Enabler	Illuminating Concepts		IS-DE	Data Enabler for power and cellular cell Data enclosure for new software platform	3	$	2,575	$	7,125	$	427.50
Water Level Sensor	Illuminating Concepts	IS-WL	IS-WL	Water Level Sensor that reads in millimeters located in the base of the IS Base	0	$	1,850	$	-	$	-
PEDESTRIAN COUNTER	Illuminating Concepts	IS-PC-ARM MOUNT	IS-PC-ARM MOUNT	OPTICAL PEDESTRIAN COUNTER MOUNTED IN SMART ARM FACED AROUT	0	$	4,500			$	-
								$	35,445	$	2,126.70

CUSTOM SOFTWARE

Further description to follow. This fee is to re-write the Intellistreets Operating System by converting it from an 802.15.4+ Wi-Fi to an all Ethernet based communication platform. The process includes adjustments to the User Interface and the ECM (Control Module). One Time Cost					H/A	
DOCUMENTATION of custom software, and one line wiring schematics in CAD					H/A	

COMMISSIONING AND COORDINATION

CLOUD SETUP	Illuminating Concepts	IL-CLOUD-SETUP	IL-CLOUD-SETUP	Setup fee for cloud management per gateway		
	Illuminating Concepts	IL-SVC-PS-SURVEY-HOURLY	IL-SVC-PS-SURVEY-HOURLY	Site Survey Fee		
PROFESSIONAL SERVICES	Illuminating Concepts	IL-SVC-PS-PM-HOURLY	IL-SVC-PS-PM-HOURLY	Project Management Fee		
	Illuminating Concepts	IL-SVC-PS-AUDIT-HR	IL-SVC-PS-AUDIT-HR	Professional Services Assessment		
LOGISTICS	Illuminating Concepts	IL-SVC-LOGISTICS	IL-SVC-LOGISTICS-TRAVEL	Logistics		
FEE	Illuminating Concepts			Commissioning		
				Total	S.T.	-

				RECURRING MANAGEMENT SERVICES AND SOFTWARE UPDATES		MONTHLY	ANNUAL
Software	Illuminating Concepts	IL-SVC-MANAGED	IL-SVC-MANAGED-SERVICES MONTHLY charged by gateway	Ongoing management services	1	$ 89	$ 89
	Illuminating Concepts	IL-SVC-BANNER	IL-SVC-MANAGED-SERVICES MONTHLY	Software and web management for LED banners	4	$ 15	$ 60
	Illuminating Concepts	IL-SVC-PB	IL-SVC-MANAGED-SERVICES MONTHLY	SOFTWARE AND WEB MANAGEMENT FOR PUSH BLUE	0	$ 15	$ -
		IS-AQSP	IL-SVC-MANAGED SERVICES MONTHLY	SOFTWARE AND WEB MANAGEMENT FOR AIR QUALITY SENSOR PAK	1	$ 15	$ 15
		IS-WL	IL-SVC-MANAGED SERVICES MONTHLY	SOFTWARE AND WEB MANAGEMENT FOR WEATHER STATION	1	$ 15	$ 15
	Illuminating Concepts	IL-SVC-MANAGED CAMERAS	IL-SVC-MANAGED-SERVICES MONTHLY	Software and web management for twin 180 cameras	4	$ 15	$ 60
				CLOUD AND MANAGEMENT ANNUAL FEE		$ 164.00	$ 2,628

SUMMARY		
For luminaires and poles only, including freight	$	222,475.40
Accessories including freight	$	37,571.70
Commissioning	$	15,603.07
Custom Software	$	-
Documentation	$	-
First year cloud and management services	$	2,628.00
This is an estimate only and final price depends on final and approved plans		
Total	$	278,282.17

TERMS: TAXES ARE NOT INCLUDED
50% DEPOSIT. 35% ON PROOF OF SHIPMENT, BALANCE ON PROOF OF COMMISSIONING, OR 45 DAYS AFTER DELIVERY, WHICHEVER COMES FIRST
CUSTOMER TO RECEIVE, STORE AND PROTECT DELIVERED MERCHANDISE. DO NOT STORE OUTDOORS

TRAINING OF CITY STAFF IS INCLUDED AND ONGOING TRAINING IS INCLUDED IN THE SERVICES AGREEMENT

7-DAY-365-SYSTEM MANAGEMENT IS INCLUDED IN THE MANAGED SERVICES AGREEMENT

INSTALLATION LABOR IS NOT INCLUDED

NO ENGINEERING OR SUB-SURFACE DESIGN OR SEALED DRAWINGS

PERMITS BY OTHERS

COMMISSIONING SYSTEM IS INCLUDED IN TOTAL
LIMITED 7 YEAR WARRANTY ON ALL PARTS INCLUDING ELECTRONICS. LIGHTING SHOP DRAWINGS MUST BE APPROVED BY THE CUSTOMER PRIOR TO ORDER. COOPERATION WITH THE INSTALLER AND ENGINEER IS ESSENTIAL TO SUCCESS. DAMAGE MUST BE REPORTED WITHIN 3 DAYS OF RECEIPT OF EQUIPMENT. CUSTOMER IS RESPONSIBLE TO RECEIVE, STORE AND PROTECT ALL SHIPMENTS.

STANDARD FEATURES INCLUDED

*Dimming, Schedules lighting events, reporting

* Controller contacts for switched 6 PCI receptacles (must order the receptacle)

*Scheduled Music or on demand for parades and holidays. Controlled by user interface. Sound tracks and playlists can be downloaded and inserted into the scheduler

*Bi-selectable color notification lights, selectable flash, solid, and sequence
* Software is free and open source
*Controlled receptacle for holiday lighting and special events, switched independent of the luminaire

*Capable of adding sensors

*7 year limited warranty on all parts

SCHEDULE OF PAYMENTS

TOTAL	$	278,282
50% DEPOSIT	$	139,141
35% UPON DELIVERY - NET TEN DAYS	$	97,399
BALANCE UPON COMISSIONING OR 30 DAYS AFTER DELIVERY	$	41,742

Notice: Any modifications to hardware or software without prior written approval voids the warranty