

AMENDMENT NO. 2

This Amendment modifies Contract No. 12-60-350, for Guaranteed Energy Performance Contract for Cook County Hospital and Health Care Facilities by and between the County of Cook, Illinois, herein referred to as "County" and Johnson Controls, Inc., authorized to do business in the State of Illinois hereinafter referred to as "Contractor":

RECITALS

Whereas, the County and Contractor have entered into a Contract approved by the County Board on July 27, 2011, (hereinafter referred to as the "Contract"), wherein the Contractor is to provide engineering and construction services (hereinafter referred to as the "Services") for the Stroger Hospital of Cook County Campus. Under Phase I, the Contractor performs a comprehensive investment grade audit.

Whereas, Amendment # 1 was executed on July 24, 2012 to provide Phase II, the construction services necessary to implement the agreed ECMs in Phase I audit. The construction services is 2 years beginning on July 24, 2012 followed by 20 years of monitoring through July 23, 2034 in the amount of \$26,497,854.00; and

Whereas, the County and Contractor desire to revise the scope of services provided in Phase II of the Contract.

Now therefore, in consideration of mutual covenants contained herein, it is agreed by and between the parties to amend the Contract as follows:

1. The Contract is hereby amended to incorporate Attachment A and made part of the Contract.
2. The attached Economic Disclosures Statement, Identification of Sub-Contractors/Suppliers/Sub-Consultants Form and MBE/WBE Utilization Plan forms are also incorporated as Attachment B and made a part of this Contract.
3. All other terms and conditions remain as stated in the Contract.

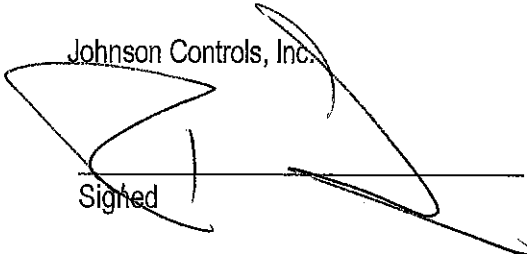
In witness whereof, the County and Contractor have caused this Amendment No. 2 to be executed on the date and year last written below.

County of Cook, Illinois

By: 
Chief Procurement Officer

By: 
State's Attorney

Johnson Controls, Inc.


Signed

Richard W. Smith
Type or print name

Branch General Manager
Title

Date: 18 November 2016

Date: October 13, 2016

DELEGATION OF AUTHORITY

The undersigned, President of **Johnson Controls, Inc.**, a Wisconsin corporation (the "Company"), pursuant to the authority vested in him by a certain resolution adopted by the Board of Directors of the Company on January 23, 1980 hereby authorizes

Richard W. Smith
Branch General Manager

(hereinafter, the "Delegate") to perform, on behalf of the Company, the acts described below:

To execute and deliver any and all contracts for the performance of work, sale of goods, and furnishing of services, and any other instruments in connection therewith and in the ordinary course of business.

This authority does not extend to:

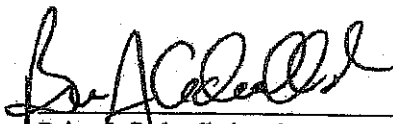
- a. the execution of surety, performance or bid bonds;
- b. the collection, receipt and recovery of monies due or to become due to the Company and the issuance of receipts and releases for the payment thereof;
- c. the signing of any notes, contracts, or any other agreement to borrow money in the name of the Company, or any form of guaranty for the payment or performance of obligations of any subsidiary, affiliate, or joint venture of the Company; or
- d. the signing, on behalf of the Company, of any deeds, abstracts, offers to purchase or any other instruments pertaining to the purchase or sale of real property.


Any actions taken by such Delegate within the scope of acts authorized herein taken between the date of expiration of any prior delegation of authority and the date hereof are hereby ratified, confirmed and approved as the acts and deeds of this Company.

This authority shall remain in full force and effect through June 17, 2017.

Signed at Milwaukee, Wisconsin, this 18th day of June, 2016.

ATTEST:


Brian J. Cadwallader, *Secretary*


Alex A. Molinaroli, *President*



ATTACHMENT A

EXHIBIT Q

Add the following supplemental changes to Exhibit Q:

Substantive Changes in Contract Scope

The changes made reference the 397 page .pdf copy of contract document "Guaranteed Energy Performance Project" dated July 24, 2012.

Changes;

1. Replace the affected contract sections and pages with the following pages.

G. Deliverables All Electronic Deliverables shall be delivered or emailed to the Project Director and any Construction Manager. When required by file size, "delivery" shall mean the physical delivery of a CD, "flash drive" or other agreed to electronic medium readable by the County in such quantities as the County may request. In addition, one reproducible copy of all Electronic Deliverables shall be provided. The ESCO shall, as a part of its Services submit copies of Printed Deliverables in such numbers as are requested by the Project Director or any Construction Manager to be submitted in hard copy. The ESCO acknowledges that Printed Deliverables may include drawings, plans and similar material that are otherwise considered Electronic Deliverables. Copying and printing of Printed Deliverables and other similar deliverables shall be printed on both sides of the paper. Paper utilized for submissions and deliverables shall be recycled paper containing at least 30 percent post-consumer content, unless use of such recycled paper is not practicable. The County reserves the right to revise these procedures, as it deems necessary. Any such revisions shall be effective upon receipt of written notice thereof from the County to the ESCO.

SECTION 4. BASIS OF COMPENSATION TO THE ESCO.

A. Compensation For Construction and Installation Services. The County will pay the ESCO for the due, proper, and complete performance of the Construction and Installation Services as required hereunder an amount not to exceed \$26,497,854 (the "Construction and Installation Amount"), such amount to be based on the Payment Schedule set forth Exhibit J. Payments of the Construction and Installation Amount shall be submitted monthly and shall be based on the percentage of Construction and Installation Services completed as determined in the Cost Loaded Schedule set forth as part of Exhibit J. The Construction and Installation Amount shall include all expenses and reimbursement.

B. (Reserved)

C. Compensation for Performance Tracking (M&V) and Maintenance Services. Commencing upon the Performance Guarantee Commencement Date and continuing until the expiration or earlier termination of this Contract, the ESCO will perform the Performance Tracking and Maintenance Services. During the Guarantee Period, the County will make annual payments to the ESCO for the Performance Tracking and Maintenance Services in the amounts set forth in Exhibit K (each, a "Performance Tracking Payment").

D. Contract Sum. The sum of the amounts described in paragraphs 4A-4C above shall be known as the Contract Sum.

E. Environmental Incentives. Except as set forth in this Subsection, the County will own, and may assign or sell in its sole discretion, all right, title, and interest associated with Environmental Incentives. Environmental Incentives will not be included within any calculation of savings or otherwise reduce the ESCO's responsibility for achieving the Guaranteed Annual Savings Amount or Guaranteed Project Savings Amount, as such terms are defined in Exhibit G; Notwithstanding the foregoing, the ESCO will be designated the sole beneficiary of tax deductions arising under Section 179D of the Internal Revenue Code.

2. Replace on page 12 out of 397 the date of "September 17, 2014 with "December 31, 2014, unless by owner approval".

3. Changes to Exhibit C starting page 61 of 397

Johnson Controls has worked very closely with the county on this Guaranteed Energy Performance Contract to complete the work associated with the contract, and any scope changes as dictated by final design, site conditions, or customer (Cook County) preference were documented during installation. This document

intends to summarize major changes to the design/build scope – so that all parties have a single document to refer to for future reference.

Building	ECM Tag	ECM Name	Page Number (of 408)	Major Change
Stroger Hospital	SH-1	Lighting Upgrades	62	No
Stroger Hospital	SH-14	VAV Box Optimization	62	Yes
Stroger Hospital	SH-15	Electronic Filter Retrofit	63	No
Stroger Hospital	SH-18	Lighting Controller Upgrade	64	No
Stroger Hospital	SH-19	Parking Garage Lighting Retrofit	64	No
Stroger Hospital	SH-20	Waste Management	65	Yes
Stroger Hospital	SH-22	Demand Response	66	No
Stroger Hospital	SH-26	Ventilation AHUs Improvement	68	No
Power House	SH-13	Chiller Plant Optimization	69	Yes
Power House	SH-23	Boiler Stack Condensing Economizer	70	No
Institute of Forensic Medicine	IFM-1	Lighting Upgrades	72	No
Institute of Forensic Medicine	IFM-2	Chiller Replacement	72	Yes
Institute of Forensic Medicine	IFM-3	Boiler Replacement	73	Yes
Institute of Forensic Medicine	IFM-4	Domestic Water System Upgrades	74	Yes
Institute of Forensic Medicine	IFM-5	AHU Controls and Electronic Filter Upgrades	74	No
Institute of Forensic Medicine	IFM-6	Inactive Storage Cooling System Upgrade	76	No
Institute of Forensic Medicine	IFM-7	Steam Traps and Misc Upgrades	77	No
Institute of Forensic Medicine	IFM-8	Receiving Dock Infrared Heaters	77	No
Hektoen Building	HB-1	Lighting Upgrades	78	No
Hektoen Building	HB-9	Controls and AHU Upgrades	79	Yes
Hektoen Building	HB-13	Domestic Water Booster VSD	80	Yes
Hektoen Building	HB-16	Dual Duct VAV and Mixed Air Conversion & New AHUs	80	Yes
Hektoen Building	HB-18	Steam Traps and Misc Upgrades	82	Yes
Ruth Rothstein Core Center	RRCC-1	Lighting Upgrades	83	Yes
Ruth Rothstein Core Center	RRCC-2	Controls Upgrade & HE Filters	83	No
Stroger Campus Wide	SCW-6	LEED-EB & Energy Star Benchmarking	84	No
Stroger Campus Wide	SCW-14	Utility Meters for Administration and Fantus	85	No
Stroger Campus Wide	SCW-15	Sustainable Services	85	Yes

Stroger Hospital

SH-14 – In the “Recommended Solution” section on pages 61 and 62 of 397, VAV box controls strategy was modified to operate 24 hours per day (including occupied and unoccupied hours).

SH-20 – Remove the autoclave from the scope of work in the “Recommended Solution” section on page 64 of 397.

Power House

SH-13: Replace the existing “Recommended Solution” section on page 69 of 397 with the following.

It is our recommendation that new control strategies be implemented for the existing chilled water system that will increase the overall efficiency of the chilled water plant by increasing the CHW temperature differential, thereby reducing equipment runtime.

- Replace two existing chillers with new high efficiency chillers with variable speed drive (VSD) controls for low load operation. These chillers can operate down to 50°F condenser water temperature

- Replace flow limiting valves with two position control valves for each of the 6 chillers
- Installed two position control valves on two of the cooling towers
- Re-commission the controls and programming for the modulating valve at each bridge. Refurbish the three (3) modulating valves.
- Control / Instrumentation
 - ✓ Install VSDs on each primary CHW pump and each CDW pump – total of 12
 - ✓ Install DP transmitters across the condenser and evaporator of each chiller – total of 12
 - ✓ Replace DP transmitters for three (3) chilled water bridges (West, Central, and East)
 - ✓ Replace DP transmitters in three (3) secondary zones (West, Central, and East)
 - ✓ Install Control Engine Optimization System (CEO) and establish communications with Metasys via BACnet IP
 - ✓ Implement adaptive control strategies including algorithms for the following:
 - Sequence chillers to assure most efficient loading
 - Reset CHW temperature
 - Regulate cooling tower and chiller operation to optimize CDW temperature
 - Reprogram cooling tower fan sequencing for winter operation for cooling tower (CT-1)
 - Coordination/control of all CHW pumps to maximize overall efficiency
- Replace three way chilled water control valves on four (4) air-handling units in new Fantus Clinic mechanical room with two way valves. Install VSD and a differential transmitter on CHWPs and modify the bridge piping to eliminate bypass flow of CHW.
- 5th Floor AHU Upgrades
 - Provide balancing for each CHW cooling coil to meet design requirements
 - Remove the flow limiter from each of the coils
 - Remove strainer mesh and replace with coarse mesh
- Install Isolation valve on the West CHW Bridge
- Replace the 3-way CHW control valve on 9 packaged unitary air conditioning (AC) units with a 2-way control valve and modify piping to eliminate any CHW bypass flow
- Remove the flow limiter from the West Chilled Water Bridge and install two (2) shut-off valves
- Install an isolation valve on the secondary loop serving the CHW radiant loop to close the CHW bypass during non-cooling periods
- Install a modulating control valve in the CHW loop serving AHU-39 (powerhouse) to modulate flow as required to maintain 45 Degree F CHWS-T to the AHU. This valve shall close during periods of non-cooling.
- Provide testing, balancing, commissioning, start-up and onsite training for the new system

Institute of Forensic Medicine

IFM-2:

- Insert missing heading in the middle of page 72 of 397 (before “**Existing Conditions**”). The heading should read **IFM-2: Chiller Replacement**.
- The contract document refers to demolishing 1 chiller and installing 1 new chiller. In actuality two (2) low pressure absorption chillers were demolished and two (2) 280 ton multi-stack electric chillers were installed.

IFM-3: Replace the existing “**Recommended Solution**” on page 72 of 397 with the following.

The recommendation is to remove one of the boilers and install two smaller boilers of higher efficiency. The existing boilers are to be removed. New DDC controls will be installed to operate the two new boilers and feedwater system efficiently to serve the heating load. The scope of work is as follows:

- Demolish and remove two (2) low pressure steam boilers from site
- Demolish and remove the existing gas-fired heat recovery unit, associated exhaust fans and ductwork, electric power and natural gas piping from site
- Furnish and install two new boilers on new concrete pads
 - Each boiler will be rated at 3,348 MBh output
 - Provide required steam, condensate, flue and gas piping with required accessories and support
- Connect electrical power, controls, feedwater connections, and steam header modifications to allow automated operation of the boiler system
- Connect the new boiler system and feedwater equipment to the new BAS for monitoring and control
- Upgrade the existing boiler feedwater tank including new pump and controls and replace the trim.
- Provide startup, commissioning and balancing for each component in the system

IFM-4: In the existing “**Recommended Solution**” section on page 73 of 397 based on site conditions, two (2) 285 MBH input hot water heaters were installed in lieu of the 120 MBH input ones.

Hektoen Building

HB-9: Insert the following scope of work after the words “...for future expansion of the DDC system” in the “**Recommended Solution**” section of the ECM write-up on page 78 of 397: Demolish and remove all of the existing pneumatic controls and replace with DDC controllers. Provide a new DDC BAS for the building.

- New Control Valves: Provide new electric / DDC control valves for all coil banks to remain. This includes coils in AHUs and coils in downstream, hot deck / cold deck coil banks.
 - ✓ Furnish all new electric / DDC control valves
 - ✓ Steam Pre-Heat: (6) control valve assemblies required, each 1/3 – 2/3
 - ✓ Pre-Cool CHW: (5) control valve assemblies required
 - ✓ Cold Deck CHW: (8) control valve assemblies required
 - ✓ Hot Deck Steam: (8) control valve assemblies required, each 1/3 – 2/3

- OAI Dampers: Replace OAI dampers in all (9) AHUs. Provide new DDC actuators and controls.
- Replace Steam Pre-Heat Coils in AHUs: S-3 (2 of 4 coils), S-6 (3 of 4 coils) and S-8 (4 of 4 coils). Replace Steam Reheat Coils in AHUs: S-2 (1 of 1 coils), S-3 (2 of 2 coils), S-6 (2 of 2 coils) and S-7 (2 of 2 coils),
 - ✓ Disconnect steam and condensate piping, break apart AHU housing / casing, and remove the steam heat coil bank
 - ✓ Furnish and install new Steam Heat coils. After new coil bank is installed, repair / patch the housing by installing patch pieces to close all openings. Reconnect all steam and condensate piping, provide new steam traps
- Remove Steam Heat Coils in five of the AHUs: S3, S6, S7, and S8.
 - ✓ Disconnect steam and condensate piping, break apart AHU housing / casing, and remove the steam heat coil bank
 - ✓ After steam heat coil bank is removed, repair/patch housing by installing patch pieces to close all openings
- Replace the Pre-Cooling chilled water coils for AHUs: S-6 (2 of 4 coils), S-8 (1 of 4 coils). Replace Final chilled water cooling coils for AHUs: S-3 (2 of 4 coils), S-7 (1 of 4 coils), S-8 (2 of 4 coils)
 - ✓ Disconnect chilled water supply and return piping, break apart AHU housing / casing, and remove the cooling coil bank
 - ✓ Furnish and install new chilled water cooling coils. After new coil bank is installed, repair / patch the housing by installing patch pieces to close all openings. Reconnect all chilled water supply and return piping
- Perform a thorough inspection check of all (9) AHUs and matching return/exhaust fans. Clean heating and cooling coils, provide new air filters, check all electrical connections, provide new belts, grease bearings, clean cooling coil drain pan, clean dampers, provide minor repairs (if needed) to doors and latches.

HB-13: In the existing “**Recommended Solution**” section on page 79 of 397 based on site conditions, pumps were sized for 20 gpm and 150 feet head.

HB-16: Replace the existing “**Recommended Solution**” section on page 80 of 397 with the following.

The intent of this energy retrofit is to replace existing bag type pre-filters in all nine (9) units with high efficiency electronic filters. The new filters will reduce pressure drop across the system and lower fan energy consumption.

We also propose to convert units S-2, S-3, S-6, S-7, and S-8 that are currently dual duct constant volume units to variable air volume dual duct (DDVAV) units. The dual duct constant volume boxes will be replaced with new dual duct VAV boxes. The three units with 100% OA (S-3, S-6, and S-7) will also be retrofitted with return air provision. The corresponding general exhaust fans will be demolished and replaced with new return/exhaust fans. New return air ductwork will be installed from return/exhaust fan discharge to AHU intake plenum.

The existing supply and return motors for the five dual duct constant volume AHUs will be replaced with inverter duty motors and retrofitted with variable speed drives (VSDs) to reduce fan speeds based on occupancy loads. The scope of work for this recommendation includes the following:

- Replace original dual duct (DD) boxes with DD VAV boxes

- ✓ There are approximately 203 dual duct boxes at the facility. 35 of these boxes have been recently replaced with new DD boxes and shall remain in place
- ✓ Demolish and remove 168 DD VAV boxes and install new DD VAV boxes.
- Convert five (5) units (S-2, S-3, S-6, S-7, and S-8) from constant volume distribution to variable volume airflow operation
 - ✓ Furnish and install a new CHW cooling coil. New AHU controls shall be provided for MAT, DAT, coil freeze stat, etc.
- Convert three (3) units (S-3, S-4, S-6, and S-7) from 100% OA units to mixed air units,
 - ✓ Demolish and remove three (3) existing general exhaust fans (EF-2, EF-6, and EF-7)
 - ✓ Furnish and install new return/exhaust fans. The new fans shall be inline fans (centrifugal or axial), sized to the specific duty of the modified VAV AHU
 - ✓ Install new return air ductwork from new return/exhaust fan discharge to AHU intake plenum
 - ✓ Existing exhaust air dampers shall remain in place and be reused with the new configuration. Clean dampers, check and adjust linkages and jack shafts to make sure dampers operate freely and properly.
 - ✓ Provide new return air dampers, electronic actuators and controls
- Provide new motors and VSDs on supply and return/exhaust fans for all five (5) air-handling units (S-2, S-3, S-6, S-7, and S-8)
- Provide new electronic filters for the AHUs
 - ✓ Remove existing pre-filters from units S-1 thru S-9.
 - ✓ Furnish and install new Dynamic V8 filters, with face areas sized to accommodate available internal space of air handler cross section
 - ✓ Provide complete installation of filter assemblies, field power wiring, controls hardware and software, etc.

HB-18: The conversion to low pressure steam was removed from the scope of work in the "Recommended Solution" section on pages 81 and 82 of 397.

Ruth Rothstein Core Center

RRCC-1: The scope was changed at owner request to clarify changes, add the following table to the "**Recommended Solutions**" section on page 82 of 397:

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed Wattage
Parking Lot	7	7	288	Replace - 250W Metal Halide, (1) 250W lamp, Magnetic ballast, POLE SHOEBOX, w/ 116W LED, (1) Pole Heads	116
Parking Lot	2	2	91	Replace - 70W Metal Halide, (1) 70W lamp, Magnetic ballast, WALLPACK, w/ 37W LED, (1) 37W	37
Parking Lot	5	5	288	Replace - 250W Metal Halide, (1) 250W lamp, Magnetic ballast, WALLPACK, w/ 137W LED, (1) 137W	137
1-201	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-202	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-202A	2	2	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-200	7	7	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
1-203	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-205	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
Hall between 248-267	7	7	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-267	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-266	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-265	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-264	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-263	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-261	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-260	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-255	5	5	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-256	8	8	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-254	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-253	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-252	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-251	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-250	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-248	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-236	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-236	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-237	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-235	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-242	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-240	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-244	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-246A	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-246	5	5	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-247	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-245	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-243	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-241	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-234	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-233	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-232	2	2	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-231	0	0	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-231	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-200A	6	6	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
East lobby	0	0	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
East lobby	7	7	453	400W Metal Halide, (1) 400W lamp, Magnetic ballast, FLOOD - No Measure Recommended	453
East lobby	3	3	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
1-211	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-212	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed Wattage
1-131	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-132	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-133	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-135	3	3	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-136	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-137	6	6	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-137	2	2	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
South Staircase	18	18	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' WRAP, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	38
Elevators	0	0	50	Relamp - 50W Incandescent, (1) 50W PAR20 lamp, RECESSED CAN, w/ 14W LED screw-in PAR 20 narrow flood	14
NE Staircase	16	16	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' WRAP, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	38
HALL between 110-116	3	3	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
Hall	6	6	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	38
Hall	3	3	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
2-202	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-204	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-205	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-206	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-207	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-208	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-269	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-270	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-267	3	3	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-268	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-266	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-262	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-261	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-263	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-264	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-249	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-247	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-248	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-246	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-251	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-244	4	4	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-242	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-241	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-240	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-239	2	2	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-231	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-243	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-245	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
Hall between 244-251	3	3	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
Hall between 244-251	1	1	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
East wing hallway 202-261	4	4	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
2-237A	6	6	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-232A	2	2	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-232B&C	9	9	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-232B&C	7	7	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2ND FLOOR LOBBY	5	5	3	3W EXIT Light Emitting Diode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	3
2ND FLOOR LOBBY	20	20	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2ND FLOOR LOBBY	18	18	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
Lobby	45	45	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed Wattage
3-204	2	2	89	Re-roof with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
3-202	1	1	89	Re-roof with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
East Lobby	2	2	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
East Lobby	27	27	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
West Lobby	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
West Lobby	2	2	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
West Lobby	1	1	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
West Lobby	13	13	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
Atrium	9	9	183	150W Metal Halide, (1) 150W lamp, Magnetic ballast, FLOOD - No Measure Recommended	183
4-203	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-220	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-221	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-219	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-222	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-223	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-224	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-225	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-226	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-246	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-245	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-244	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-251	3	3	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
4-242	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-242	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-252	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-253	9	9	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-254	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-255	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-238	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-236	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-235	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-234	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-232	2	2	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	38
4-233	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-231	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-230	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-240	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-241	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-101	1	1	47	17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X2 TROFFER - No Measure Recommended	47
4-102	1	1	100	100W Incandescent, (1) 100W lamp, FLOOD - No Measure Recommended	100
4-104	1	1	60	Relamp - 60W Incandescent, (1) 60W lamp, KEYLESS, w/ 13W Compact Fluorescent, (1) 13W screw-in lamp/base w/ permanent disk installed, any bulb shape	13
4-110	2	2	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
4-110	10	10	100	100W Incandescent, (1) 100W lamp, FLOOD - No Measure Recommended	100
4-110	9	9	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
4-106	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
4-108	2	2	47	17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X2 TROFFER - No Measure Recommended	47
4-108	2	2	89	Re-roof with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
Hallway by 4-126	5	5	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
Hallway by 4-126	3	3	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
4-126	0	0	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
4-125	1	1	89	Re-roof with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed Wattage
4-136	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-122	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
4-121	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
4-133	9	9	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-133	3	3	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
4-133 restroom	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-130	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-131	4	4	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-132	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-134	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-230 to 4-239 hallway	6	6	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-230 to 4-239 hallway	4	4	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
4-224	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-206	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-205	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-202	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-204	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-201	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
Mech	21	21	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
Mech	4	4	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
Oxygen room	1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' VAPORTIGHT, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
Hallway between 220 and 242	12	12	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
Hallway between 220 and 242	3	3	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
Hallway	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
1-271	1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
Hallway	3	3	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
Hallway	8	8	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
Loading dock	12	12	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38

Room	Existing Qty	Proposed Qty	Exist. Wattage	ECM Definition	Proposed Wattage
Parking Lot	7	7	288	Replace - 250W Metal Halide, (1) 250W lamp, Magnetic ballast, POLE SHOEBOX, w/ 116W LED, (1) Pole Heads	116
Parking Lot	2	2	91	Replace - 70W Metal Halide, (1) 70W lamp, Magnetic ballast, WALLPACK, w/ 37W LED, (1) 37W	37
Parking Lot	5	5	288	Replace - 250W Metal Halide, (1) 250W lamp, Magnetic ballast, WALLPACK, w/ 137W LED, (1) 137W	137
1-201	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-202	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-202A	2	2	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-200	7	7	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
1-203	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-205	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
Hall between 248-267	7	7	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-267	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-266	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-265	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-264	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-263	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-261	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-260	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-255	5	5	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-256	8	8	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-254	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-253	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-252	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-251	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-250	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-248	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-238	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-236	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-237	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-235	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-242	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-240	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-244	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-246A	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-246	5	5	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-247	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-245	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-243	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-241	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-234	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-233	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-232	2	2	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-231	0	0	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-231	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-200A	6	6	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
East lobby	0	0	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
East lobby	7	7	453	400W Metal Halide, (1) 400W lamp, Magnetic ballast, FLOOD - No Measure Recommended	453
East lobby	3	3	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
1-211	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-212	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed Wattage
1-131	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-132	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-133	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
1-135	3	3	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-136	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-137	6	6	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-137	2	2	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
South Staircase	18	18	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" WRAP, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	38
Elevators	0	0	50	Relamp - 50W Incandescent, (1) 50WPAR20 lamp, RECESSED CAN, w/ 14W LED screw-in PAR 20 narrow flood	14
NE Staircase	16	16	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" WRAP, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	38
HALL between 110-116	3	3	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
Hall	6	6	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	38
Hall	3	3	12	8W EXIT T6 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
2-202	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-204	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-205	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-206	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-207	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-208	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-269	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-270	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-267	3	3	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-268	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-266	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-262	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
2-261	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-263	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-264	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-249	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-247	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-248	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-246	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-251	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-244	4	4	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-242	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-241	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-240	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-239	2	2	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-231	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-243	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-245	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
Hall between 244-251	3	3	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
Hall between 244-251	1	1	12	8W EXIT T6 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
East wing hallway 202-261	4	4	12	8W EXIT T6 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
2-232A	6	6	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-232A	2	2	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-232B&C	9	9	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-232B&C	7	7	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2ND FLOOR LOBBY	5	5	3	3W EXIT Light Emitting Diode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	3
2ND FLOOR LOBBY	20	20	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2ND FLOOR LOBBY	18	18	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
Lobby	45	45	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed Wattage
3-204	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
3-202	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
East Lobby	2	2	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
East Lobby	27	27	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
West Lobby	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
West Lobby	2	2	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
West Lobby	1	1	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
West Lobby	13	13	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
Atrium	9	9	183	150W Metal Halide, (1) 150W lamp, Magnetic ballast, FLOOD - No Measure Recommended	183
4-203	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-220	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-221	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-219	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-222	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-223	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-224	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-225	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-226	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-246	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-245	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-244	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-251	3	3	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
4-242	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-242	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-252	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-253	9	9	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-254	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-255	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-238	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-236	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-235	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-234	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-232	2	2	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	38
4-233	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-231	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-230	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-240	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-241	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-101	1	1	47	17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X2 TROFFER - No Measure Recommended	47
4-102	1	1	100	100W Incandescent, (1) 100W lamp, FLOOD - No Measure Recommended	100
4-104	1	1	60	Relamp - 60W Incandescent, (1) 60W lamp, KEYLESS, w/ 18W Compact Fluorescent, (1) 18W screw-in lamp/base w/ permanent disk installed, any bulb shape	13
4-110	2	2	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
4-110	10	10	100	100W Incandescent, (1) 100W lamp, FLOOD - No Measure Recommended	100
4-110	9	9	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
4-106	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
4-108	2	2	47	17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X2 TROFFER - No Measure Recommended	47
4-108	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40
Hallway by 4-126	5	5	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
Hallway by 4-126	3	3	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
4-126	0	0	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
4-125	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF < 0.85)	40

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed Wattage
4-136	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-122	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
4-121	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
4-133	9	9	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-133	3	3	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
4-133 restroom	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-130	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-131	4	4	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-132	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-134	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-230 to 4-239 hallway	6	6	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-230 to 4-239 hallway	4	4	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
4-224	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-206	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-205	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-202	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-204	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-201	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
Mech	21	21	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
Mech	4	4	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
Oxygen room	1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' VAPORTIGHT, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
Hallway between 220 and 242	12	12	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
Hallway between 220 and 242	3	3	12	9W EXIT T5 Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
Hallway	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
1-271	1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
Hallway	3	3	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
Hallway	8	8	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
Loading dock	12	12	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38

Site-Wide ECMs

SCW-15: Sustainable Services

After meeting with the CCHS director the scope was revised. Please substitute the scope on pages 84-86 with the following:

The goal was to affect the Behavior Change Management of the Cook County Health & Hospital Systems (CCHHS). The *Integrated Bottom Line* of People, Planet & Profit is the platform many use for social value creation, environmental and economic value creation respectively.

- Visit 19 hospital and health centers in CCHHS. Discuss the ways the County staff can improve the way CCHHS interacts with patients to save money and the planet!
- Create a CCHHS green logo to reflect the new green initiatives. Ask the employees to take the *CCHHS Green Pledge*.

- Compile valuable information for CCHHS to make a significant impact on the overall budget and the environment.
- Final report will include action steps for the county along with potential savings.

4. Changes to Exhibit D

Please substitute the following Exhibit D for the one on page 130 of 397.

Exhibit D List of Subcontractors

Subcontractor	Work / Trade	WBE	Percent Participation	MBE	Percent Participation
Hill Mechanical Corporation	Mechanical				
All-Tech Electrical	Electrical	X	3.68%		
Stevenson Crane	Cranes	X	0.21%		
TAC Construction	General Construction	X	1.00%		
Autumn Construction	Construction Management, HVAC/Mechanical Work	X	1.41%		
CT Mechanical	HVAC Construction, Subcontract Management	X	1.18%		
Universal Insulation	Pipe and duct insulation			X	0.79%
Primer Engineers	Engineering and Design			X	2.27%
Diversified General Contractors	Construction Management, HVAC/Mechanical Work			X	4.78%
Vargas Mechanical	Construction Management, HVAC/Mechanical Work			X	2.43%
Dekayo Corp	Construction Management, HVAC/Mechanical Work			X	1.30%
Hill Mechanical Services	Cutting and Coring Work, Air and Water, Test and Balance				
J-Mac	Construction Services	X	0.13%		
Suarez Electric Company	Electrical			X	2.37%
Evergreen Supply Company	Lighting and Electrical Supply	X	2.33%		
Applied Controls and Contracting Services	Electrical			X	1.80%
Code Engineering	Electrical			X	2.52%
Power and Communication Systems	Electrical			X	1.26%
T.A.G	Sustainable Services	X	0.99%		
RLD Resources	Energy Consulting			X	0.05%
Level-1 Global Solutions	Information Technology/ Networking Consulting			X	0.19%
Ardmore Associates	Construction Management	X	0.14%		
Enviroplus Inc.	Environmental Remediation			X	0.24%
Regulatory Compliance Management, Inc.	Environmental Health and Safety Services				
HTS Chicago	HVAC Services				
Controlled Environment Test and Balancing	Test and Balancing				
JSR Enterprises	Plumbing			X	0.46%
Varlo Mechanical	Mechanical			X	0.20%
Power and Communication Systems (Indirect participation)	Electrical			X	3.40%
Total			11.08%		24.07%

Changes to Exhibit G

- Replace the table on page 139 of 397 with the following:

Performance Guarantee Year	Guaranteed Energy and Demand			Operation and Maintenance Savings	Utility Savings	Guaranteed Annual Savings Amount
	kWh	kW	Therms			
1	12,311,391	2,206	783,704	\$1,270,270.00	\$1,198,178.04	\$2,468,448.04
2	12,311,391	2,206	783,704	\$317,115.29	\$1,233,712.00	\$1,550,827.29
3	12,311,391	2,206	783,704	\$278,879.89	\$1,270,315.64	\$1,549,195.53
4	12,311,391	2,206	783,704	\$287,246.75	\$1,308,021.60	\$1,595,268.34
5	12,311,391	2,206	783,704	\$295,863.99	\$1,346,863.52	\$1,642,727.51
6	12,311,391	2,206	783,704	\$304,739.93	\$1,386,876.08	\$1,691,616.01
7	12,311,391	2,206	783,704	\$313,882.07	\$1,428,095.05	\$1,741,977.11
8	12,311,391	2,206	783,704	\$323,299.10	\$1,470,557.26	\$1,793,856.36
9	12,311,391	2,206	783,704	\$332,997.92	\$1,514,300.72	\$1,847,298.64
10	12,311,391	2,206	783,704	\$342,987.64	\$1,559,364.61	\$1,902,352.25
11	12,311,391	2,206	783,704	\$296,122.57	\$1,605,789.30	\$1,901,911.87
12	12,311,391	2,206	783,704	\$305,006.24	\$1,653,616.42	\$1,958,622.67
13	12,311,391	2,206	783,704	\$314,156.43	\$1,702,888.91	\$2,017,045.34
14	12,311,391	2,206	783,704	\$323,581.12	\$1,753,650.99	\$2,077,232.11
15	12,311,391	2,206	783,704	\$333,288.56	\$1,805,948.30	\$2,139,236.86
16	12,311,391	2,206	783,704	\$343,287.21	\$1,859,827.86	\$2,203,115.08
17	12,311,391	2,206	783,704	\$353,585.83	\$1,915,338.17	\$2,268,924.00
18	12,311,391	2,206	783,704	\$364,193.41	\$1,972,529.20	\$2,336,722.61
19	12,311,391	2,206	783,704	\$375,119.21	\$2,031,452.51	\$2,406,571.72
20	12,311,391	2,206	783,704	\$386,372.78	\$2,092,161.23	\$2,478,534.01
Total	246,227,814	44,112	15,674,076	\$7,461,995.93	\$ 32,109,487.39	\$ 39,571,483.32

- Change the Guaranteed Project Savings Amount on page 139 and 140 of 397 to \$39,571,483.32.

The following is the original cash flow from July, 2012



Financial Analysis - 20 Year Project

Paydown of Debt	Construction Sell Price	\$ 26,497,854
	Capital Contribution	1,050,000
Fees	Rebates	-
	Grants	-
	Miscellaneous Fees	-
	Adjusted Financed Amount	\$ 25,447,854
	Loan Structure	Lease
	Contract Term - Years	20
	Construction Term - Months	17
	Loan Payment Frequency	Annual
	Interest Rate	3.50%

Business Case Summary	Electric Consumption	Annual Electric Demand	Natural Gas	Non-measured		Total Savings	Loan Payment	Service (Perf. Mgmt.)	Measurement Verification (Perf. Mgmt.)	Performance Management	Balance
				Utility Savings	Material Savings						
Year 1	\$ 719,967	\$ 42,942	\$ 490,477	\$ 1,253,905	\$ 259,823	\$ 1,513,229	\$ 1,304,834	\$ 12,428	\$ 195,970	\$ 208,395	\$ -
Year 2	\$ 743,387	\$ 44,338	\$ 502,738	\$ 1,290,463	\$ 363,005	\$ 1,653,468	\$ 1,471,521	\$ 12,798	\$ 169,149	\$ 181,947	\$ -
Year 3	\$ 767,847	\$ 45,779	\$ 515,307	\$ 1,328,633	\$ 326,146	\$ 1,654,779	\$ 1,505,270	\$ 13,182	\$ 136,328	\$ 149,509	\$ -
Year 4	\$ 792,492	\$ 47,267	\$ 528,190	\$ 1,367,949	\$ 335,931	\$ 1,703,880	\$ 1,566,685	\$ 13,577	\$ 123,617	\$ 137,194	\$ -
Year 5	\$ 818,248	\$ 48,803	\$ 541,394	\$ 1,408,445	\$ 346,009	\$ 1,754,454	\$ 1,614,494	\$ 13,984	\$ 125,976	\$ 139,950	\$ -
Year 6	\$ 844,941	\$ 50,389	\$ 554,929	\$ 1,450,160	\$ 356,389	\$ 1,806,549	\$ 1,663,740	\$ 14,404	\$ 128,405	\$ 142,808	\$ -
Year 7	\$ 872,339	\$ 52,027	\$ 568,802	\$ 1,493,128	\$ 367,081	\$ 1,860,209	\$ 1,714,465	\$ 14,836	\$ 130,907	\$ 145,743	\$ -
Year 8	\$ 900,648	\$ 53,718	\$ 583,022	\$ 1,537,389	\$ 378,094	\$ 1,915,482	\$ 1,766,716	\$ 15,281	\$ 133,484	\$ 148,766	\$ -
Year 9	\$ 929,919	\$ 55,463	\$ 597,598	\$ 1,582,981	\$ 389,436	\$ 1,972,417	\$ 1,820,539	\$ 15,740	\$ 136,139	\$ 151,879	\$ -
Year 10	\$ 960,142	\$ 57,266	\$ 612,538	\$ 1,629,946	\$ 401,119	\$ 2,031,065	\$ 1,875,536	\$ 16,656	\$ 138,873	\$ 155,229	\$ -
Year 11	\$ 991,346	\$ 59,127	\$ 627,851	\$ 1,678,325	\$ 355,698	\$ 2,034,323	\$ 1,875,536	\$ 16,688	\$ 141,689	\$ 158,388	\$ -
Year 12	\$ 1,023,565	\$ 61,049	\$ 643,548	\$ 1,728,162	\$ 366,628	\$ 2,094,840	\$ 1,893,051	\$ 17,129	\$ 144,590	\$ 161,789	\$ -
Year 13	\$ 1,056,831	\$ 63,033	\$ 659,636	\$ 1,779,500	\$ 377,678	\$ 2,157,179	\$ 1,891,886	\$ 17,715	\$ 147,578	\$ 165,293	\$ -
Year 14	\$ 1,091,178	\$ 65,081	\$ 676,127	\$ 1,832,387	\$ 389,009	\$ 2,221,396	\$ 2,052,484	\$ 18,247	\$ 150,655	\$ 169,902	\$ -
Year 15	\$ 1,126,641	\$ 67,197	\$ 693,030	\$ 1,888,868	\$ 400,679	\$ 2,287,547	\$ 2,114,929	\$ 18,794	\$ 153,825	\$ 172,619	\$ -
Year 16	\$ 1,163,257	\$ 69,381	\$ 710,356	\$ 1,947,944	\$ 412,699	\$ 2,355,693	\$ 2,179,216	\$ 19,358	\$ 157,090	\$ 176,447	\$ -
Year 17	\$ 1,201,063	\$ 71,635	\$ 728,115	\$ 2,009,814	\$ 425,080	\$ 2,425,894	\$ 2,245,503	\$ 19,938	\$ 160,452	\$ 180,391	\$ -
Year 18	\$ 1,240,098	\$ 73,964	\$ 746,318	\$ 2,060,379	\$ 437,833	\$ 2,498,212	\$ 2,313,680	\$ 20,537	\$ 163,916	\$ 184,452	\$ 79
Year 19	\$ 1,280,401	\$ 76,367	\$ 764,976	\$ 2,121,744	\$ 450,968	\$ 2,572,712	\$ 2,313,680	\$ 21,153	\$ 167,483	\$ 188,636	\$ 70,395
Year 20	\$ 1,322,014	\$ 78,949	\$ 784,100	\$ 2,184,963	\$ 464,497	\$ 2,649,460	\$ 2,313,680	\$ 21,787	\$ 171,158	\$ 192,945	\$ 142,835
Total	\$ 10,945,905	\$ 3,183,676	\$ 4,252,955	\$ 33,855,636	\$ 7,504,152	\$ 41,162,788	\$ 37,487,885	\$ 84,309	\$ 1,877,284	\$ 3,481,593	\$ 213,510

The original total savings (July, 2012) shown in Exhibits G and H equal \$42,212,781.75, which includes the \$1,050,000 in capital cost avoidance.

The table below shows the final project closeout cash flow.



Project Closeout Financial Analysis - 20 Year Project

Resource Name		Mortgage 1
Construction Sell Price		\$ 6,978,624
Paydown of Debt	Capital Contribution	\$ -
	Rebates	\$ -
	Grants	\$ -
Fees	Miscellaneous Fees	\$ -
Adjusted Financed Amount		\$ 6,978,624
Loan Structure		Lease
Contract Term - Years		20
Construction Term - Months		17
Loan Payment Frequency		Annual
Interest Rate		3.50%

Resource Name		Mortgage 2
Construction Sell Price		\$ 19,519,230
Paydown of Debt	Capital Contribution	\$ 1,050,000
	Rebates	\$ -
	Grants	\$ -
Fees	Miscellaneous Fees	\$ -
Adjusted Financed Amount		\$ 18,469,230
Loan Structure		Lease
Contract Term - Years		20
Construction Term - Months		17
Loan Payment Frequency		Annual
Interest Rate		1.00%

Business Case Summary	Non-measured										
	Electric Consumption	Annual Electric Demand	Natural Gas	Utility Savings	Material Savings	Total Savings	Loan Payment	Service (Perf. Mgmt.)	Measurement Verification (Perf. Mgmt.)	Performance Management	Balance
Year 1	\$ 702,293	\$ 41,641	\$ 454,244	\$ 1,198,178	\$ 220,270	\$ 1,418,448	\$ 1,210,053	\$ 12,425	\$ 195,970	\$ 208,395	\$ -
Year 2	\$ 725,118	\$ 42,095	\$ 465,600	\$ 1,233,712	\$ 317,115	\$ 1,550,827	\$ 1,368,880	\$ 12,798	\$ 169,149	\$ 181,947	\$ -
Year 3	\$ 748,684	\$ 44,392	\$ 477,240	\$ 1,270,316	\$ 278,880	\$ 1,549,196	\$ 1,399,686	\$ 13,182	\$ 136,328	\$ 149,509	\$ -
Year 4	\$ 773,016	\$ 45,835	\$ 489,171	\$ 1,308,022	\$ 287,247	\$ 1,595,268	\$ 1,421,683	\$ 13,577	\$ 123,617	\$ 137,194	\$ 36,391
Year 5	\$ 798,139	\$ 47,324	\$ 501,400	\$ 1,346,864	\$ 295,864	\$ 1,642,728	\$ 1,433,454	\$ 13,984	\$ 125,976	\$ 139,960	\$ 69,314
Year 6	\$ 824,079	\$ 48,862	\$ 513,935	\$ 1,386,876	\$ 304,740	\$ 1,691,616	\$ 1,445,579	\$ 14,404	\$ 128,405	\$ 142,800	\$ 103,228
Year 7	\$ 850,861	\$ 50,450	\$ 526,783	\$ 1,428,095	\$ 313,882	\$ 1,741,977	\$ 1,458,069	\$ 14,836	\$ 130,907	\$ 145,743	\$ 138,164
Year 8	\$ 878,514	\$ 52,090	\$ 539,953	\$ 1,470,557	\$ 323,299	\$ 1,793,856	\$ 1,470,937	\$ 15,281	\$ 133,484	\$ 148,766	\$ 174,154
Year 9	\$ 907,066	\$ 53,783	\$ 553,452	\$ 1,514,301	\$ 332,998	\$ 1,847,299	\$ 1,484,192	\$ 15,740	\$ 136,139	\$ 151,879	\$ 211,228
Year 10	\$ 936,546	\$ 55,531	\$ 567,288	\$ 1,559,365	\$ 342,998	\$ 1,902,352	\$ 1,498,225	\$ 16,668	\$ 138,873	\$ 305,529	\$ 138,598
Year 11	\$ 966,983	\$ 57,336	\$ 581,470	\$ 1,605,789	\$ 295,123	\$ 1,901,912	\$ 1,496,861	\$ 16,698	\$ 141,689	\$ 158,388	\$ 246,664
Year 12	\$ 998,410	\$ 59,199	\$ 596,007	\$ 1,653,616	\$ 305,006	\$ 1,958,623	\$ 1,510,901	\$ 17,199	\$ 144,580	\$ 161,789	\$ 285,939
Year 13	\$ 1,030,859	\$ 61,123	\$ 610,907	\$ 1,702,899	\$ 314,156	\$ 2,017,045	\$ 1,525,364	\$ 17,715	\$ 147,578	\$ 165,293	\$ 326,388
Year 14	\$ 1,064,362	\$ 63,110	\$ 626,180	\$ 1,753,651	\$ 323,581	\$ 2,077,232	\$ 1,540,265	\$ 18,247	\$ 150,655	\$ 168,902	\$ 368,065
Year 15	\$ 1,098,953	\$ 65,161	\$ 641,834	\$ 1,805,948	\$ 333,289	\$ 2,139,237	\$ 1,555,616	\$ 18,794	\$ 153,825	\$ 172,619	\$ 411,002
Year 16	\$ 1,134,669	\$ 67,278	\$ 657,880	\$ 1,859,828	\$ 343,287	\$ 2,203,115	\$ 1,571,431	\$ 19,358	\$ 157,090	\$ 176,447	\$ 455,237
Year 17	\$ 1,171,546	\$ 69,465	\$ 674,327	\$ 1,915,338	\$ 353,586	\$ 2,268,924	\$ 1,587,724	\$ 19,938	\$ 160,452	\$ 180,291	\$ 500,809
Year 18	\$ 1,209,621	\$ 71,723	\$ 691,185	\$ 1,972,529	\$ 364,193	\$ 2,336,723	\$ 1,604,510	\$ 20,537	\$ 163,916	\$ 184,452	\$ 547,760
Year 19	\$ 1,248,934	\$ 74,054	\$ 708,465	\$ 2,031,453	\$ 375,119	\$ 2,406,572	\$ 1,621,804	\$ 21,153	\$ 167,483	\$ 188,636	\$ 596,131
Year 20	\$ 1,289,524	\$ 76,460	\$ 726,177	\$ 2,092,161	\$ 386,373	\$ 2,478,534	\$ 1,639,412	\$ 21,787	\$ 171,158	\$ 192,945	\$ 646,623
Total	\$ 19,558,171	\$ 1,137,815	\$ 11,803,498	\$ 32,109,487	\$ 6,411,996	\$ 38,521,483	\$ 31,257,647	\$ 404,309	\$ 2,977,284	\$ 3,461,583	\$ 3,802,243

The total savings (March, 2015) shown in Exhibits G and H equal \$39,571,483.32, which includes the \$1,050,000 in capital cost avoidance.

6. Changes to Exhibit H

- Change Table-1 on page 146 of 397 to the following:

Year	Non-Measured O&M ***	Option A measured O&M ***	Total O&M ***	Non- measured Utility Cost Avoidance *	Option A Measured Utility Cost Avoidance *	Option C Measured Utility Cost Avoidance *	Total Utility Cost Avoidance *	Non- Measured Future Capital Cost Avoidance **	Total Benefits
1	\$155,270.00	\$65,000.00	\$220,270.00	\$12,428.00	\$476,228.25	\$709,521.60	\$1,198,178.04	\$1,050,000.00	\$2,468,448.04
2	\$236,002.79	\$81,112.50	\$317,115.29	\$12,831.91	\$491,744.88	\$729,135.21	\$1,233,712.00	\$0.00	\$1,550,827.29
3	\$195,334.01	\$83,545.88	\$278,879.89	\$13,248.95	\$507,766.78	\$749,299.91	\$1,270,315.64	\$0.00	\$1,549,195.53
4	\$201,194.49	\$86,052.25	\$287,246.75	\$13,679.64	\$524,310.39	\$770,031.57	\$1,308,021.60	\$0.00	\$1,595,268.34
5	\$207,230.17	\$88,633.82	\$295,863.99	\$14,124.12	\$541,392.70	\$791,346.69	\$1,346,863.52	\$0.00	\$1,642,727.51
6	\$213,447.09	\$91,292.83	\$304,739.93	\$14,583.16	\$559,031.25	\$813,261.68	\$1,385,876.08	\$0.00	\$1,691,616.01
7	\$219,850.45	\$94,031.62	\$313,882.07	\$15,057.11	\$577,244.13	\$835,793.81	\$1,428,095.05	\$0.00	\$1,741,977.11
8	\$226,446.53	\$96,852.57	\$323,299.10	\$15,546.47	\$596,050.03	\$858,960.76	\$1,470,557.26	\$0.00	\$1,793,856.36
9	\$233,239.78	\$99,758.14	\$332,997.92	\$16,051.79	\$615,468.26	\$882,780.73	\$1,514,300.72	\$0.00	\$1,847,298.64
10	\$240,236.75	\$102,750.89	\$342,987.64	\$16,573.41	\$635,518.76	\$907,272.45	\$1,559,364.61	\$0.00	\$1,902,352.25
11	\$190,289.15	\$105,833.41	\$296,122.57	\$17,112.04	\$656,222.08	\$932,455.17	\$1,605,789.30	\$0.00	\$1,901,911.87
12	\$195,997.83	\$109,008.42	\$305,006.24	\$17,668.18	\$677,599.49	\$958,348.75	\$1,653,616.42	\$0.00	\$1,958,622.67
13	\$201,877.76	\$112,278.67	\$314,156.43	\$18,242.40	\$699,672.92	\$984,973.58	\$1,702,888.91	\$0.00	\$2,017,045.34
14	\$207,934.09	\$115,647.03	\$323,581.12	\$18,835.28	\$722,465.03	\$1,012,350.69	\$1,753,650.99	\$0.00	\$2,077,232.11
15	\$214,172.12	\$119,116.44	\$333,288.56	\$19,447.46	\$745,999.19	\$1,040,501.65	\$1,805,948.30	\$0.00	\$2,139,236.86
16	\$220,597.28	\$122,689.93	\$343,287.21	\$20,079.49	\$770,299.57	\$1,069,448.81	\$1,859,827.86	\$0.00	\$2,203,115.08
17	\$227,215.20	\$126,370.63	\$353,585.83	\$20,732.05	\$795,391.09	\$1,099,215.03	\$1,915,338.17	\$0.00	\$2,268,924.00
18	\$234,031.65	\$130,161.75	\$364,193.41	\$21,405.95	\$821,299.51	\$1,129,823.75	\$1,972,529.20	\$0.00	\$2,336,722.61
19	\$241,052.60	\$134,066.60	\$375,119.21	\$22,101.53	\$848,051.40	\$1,161,299.58	\$2,031,452.51	\$0.00	\$2,406,571.72
20	\$248,284.18	\$138,088.60	\$386,372.78	\$22,819.89	\$875,674.23	\$1,193,667.11	\$2,092,161.23	\$0.00	\$2,478,534.01
Total	\$4,309,703.94	\$2,102,291.99	\$6,411,995.93	\$342,568.75	\$13,137,429.93	\$18,629,488.52	\$32,109,487.39	\$1,050,000.00	\$39,571,483.32

*Utility Cost Avoidance figures in the table above are based on anticipated increases in unit energy costs as set forth in the table in Exhibit G section 3.2.5.

** Future Capital Cost Avoidance is a Non-Measured Project Benefit.

***Operations & Maintenance Cost Avoidance figures in the table above are based on a mutually agreed fixed annual escalation rate of three percent (3%).

Project Savings are classified as measured benefits and non-measured benefits. Measured benefits are further classified by the M&V methodology selected; for this project, it is either option A or option C. Table 2 describes non-measured savings. Table 3 describes Option-A measured savings. Table 4 describes Option-C measured savings. The M&V plans for measured savings are included after Table 4.

- Change Table-2 on page 148 of 397 to the following:

ECM Tag	ECM Name	Year 1 Non-Measured Benefits (\$)	Description of Non-Measured Benefits
SH-1	Lighting Upgrades	\$13,600	There are material savings associated with a reduction in lamp and ballast costs. The new lamps and ballasts have longer operating life.
SH-15	Electronic Filter Retrofit	\$59,500	There are material savings associated with filter replacement. The new filters have longer operating life.
SH-19	Parking Garage Lighting Retrofit	\$6,303	There are material savings associated with a reduction in lamp and ballast costs. The new lamps and ballasts have longer operating life.
SH-20	Waste Management	\$35,000	There are material savings associated with a reduction in sharps containers by training hospital staff for maximizing sharps container capacity. Savings are also achieved through training by eliminating the improper disposal of reusable supplies.
SH-22	Demand Response	\$18,927	Revenue is realized through producing 2.6MW load during "demand reduction events" via utilizing back-up generators.
IFM-1	Lighting Upgrades	\$1,289	There are material savings associated with a reduction in lamp and ballast costs. The new lamps and ballasts have longer operating life.
IFM-4	Domestic Water System Upgrades	\$4,477	Electric energy savings will be realized from reduced pumping energy by utilizing a Variable Speed Drive.
IFM-5	AHU Controls and Electronic Filter Upgrades	\$2,388	There are material savings associated with filter replacement. The new filters have longer operating life.
HB-1	Lighting Upgrades	\$4,263	There are material savings associated with a reduction in lamp and ballast costs. The new lamps and ballasts have longer operating life.
HB-13	Domestic Water Booster VSD	\$7,951	Electric energy savings will be realized from reduced pumping energy by utilizing a Variable Speed Drive.
HB-16	Dual Duct VAV and Mixed Air Conversion	\$6,200	There are material savings associated with filter replacement. The new filters have longer operating life.
RRCC-1	Lighting Upgrades	\$1,108	There are material savings associated with a reduction in lamp and ballast costs. The new lamps and ballasts have longer operating life.
RRCC-2	Controls Upgrade and Electronic Filter Retrofit	\$5,692	There are material savings associated with filter replacement. The new filters have longer operating life.
	Total Year 1 Non-Measured Benefits	\$167,698.40	

The following is a summary of changes in scope that impacted savings:

- The only ECM savings that changed was RRCC-1. RRCC-1: Lighting Upgrade: Room-by-room audit was revised and exterior lighting was added to the scope of work

Change Option A Savings Table on Page 151 of 397 with the following:

ECM Tag	ECM Name	Year 1 Benefits (\$)
SH-1	Lighting Upgrades	\$59,294
SH-14	VAV Box Optimization	\$50,074
SH-15	Electronic Filter Retrofit	\$141,299
SH-19	Parking Garage Lighting Retrofit	\$41,343
SH-20	Waste Management	\$65,000
SH-26	Ventilation AHUs Improvement	\$16,755
IFM-1	Lighting Upgrades	\$15,729
HB-1	Lighting Upgrades	\$59,944
HB-9	Controls and AHU Upgrades (Electric)	\$55,372
HB-16	Dual Duct VAV and Mixed Air Conversion (Electric)	\$30,891
RRCC-1	Lighting Upgrades	\$5,528
	Total Year-1 Option-A Measured Savings	\$541,229

The following is a summary of changes in scope that impacted savings:

- SH-20: Waste Management: The installation of the Autoclave sterilizer was removed from the scope of work
- HB-9: Controls and AHU Upgrades: AHU S-8 remains as a constant volume 100% Ventilation unit and is required to operate 24/7 for the laboratories that will remain on the 9th floor.
- HB-16: Dual Duct VAV and Mixed Air Conversion & New AHU: AHU S-8 remains as a constant volume 100% Ventilation unit for the laboratories that will remain on the 9th floor.
- RRCC-1: Lighting Upgrade: Room-by-room audit was revised because new light fixtures were recently installed under a separate contract for the building and exterior lighting was added to the scope of work

Change Option C Savings Table on Page 152 of 397 with the following:

Building	ECM Tag	ECM Name	Year 1 Option C Electric Benefits (\$)	Year 1 Option C Gas Benefits (\$)	Year 1 Option C Total Energy Benefits (\$)
Powerhouse	SH-13	Chiller Plant Optimization	\$223,135	\$0	\$223,135
Powerhouse	SH-23	Boiler Stack Condensing Economizer	-\$6,684	\$307,955	\$301,271
Powerhouse	Powerhouse	Total Year-1 Option-C Measured Savings	\$216,451	\$307,955	\$524,406
Institute of Forensic Medicine	IFM-2b	Chiller Replacement	-\$29,608	\$55,014	\$25,406
Institute of Forensic Medicine	IFM-3	Boiler Replacement	\$0	\$6,028	\$6,028
Institute of Forensic Medicine	IFM-5	AHU Controls and Electronic Filter Upgrades	\$23,525	\$9,941	\$33,466
Institute of Forensic Medicine	IFM-7	Steam Traps and Misc Upgrades	\$0	\$3,304	\$3,304
Institute of Forensic Medicine	Institute of Forensic Medicine	Total Year-1 Option-C Measured Savings	-\$6,083	\$74,287	\$68,204
Hektoen Building	HB-9	Controls and AHU Upgrades (Gas)	\$0	\$30,986	\$30,986
Hektoen Building	HB-16	Dual Duct VAV and Mixed Air Conversion (Gas)	\$0	\$14,666	\$14,666
Hektoen Building	HB-18	Steam Traps and Misc Upgrades	\$0	\$13,563	\$13,563
Hektoen Building	Hektoen Building	Total Year-1 Option-C Measured Savings	\$0	\$59,215	\$59,215
Ruth Rothstein Core Center	RRCC-2	Controls Upgrade and Electronic Filter Retrofit	\$39,683	\$18,014	\$57,697
Ruth Rothstein Core Center	Ruth Rothstein Core Center	Total Year-1 Option-C Measured Savings	\$39,683	\$18,014	\$57,697
Total Stroger Hospital Campus		Total Year-1 Option-C Measured Savings	\$250,051	\$459,471	\$709,521.60

The following is a summary of changes in scope that impacted savings:

- HB-9: Controls and AHU Upgrades: AHU S-8 remains as a constant volume 100% Ventilation unit and is required to operate 24/7
- HB-16: Dual Duct VAV and Mixed Air Conversion & New AHU: AHU S-8 remains as a constant volume 100% Ventilation unit
- HB-18: Steam Traps and Misc Upgrades: The "Steam Pressure Reduction" was removed from the scope of work as well as a reduction in steam trap savings due to infrastructure issues with the condensate return system. This was traded for other deferred maintenance work on the steam system to make it operational.

SH-20: Waste Management

On Page 171 of 397, Replace the paragraph under 2. "Energy Baseline Development" in its entirety with the following:

During the detailed audit Waste Component by Weight, Waste Handling, Disposal Cost, Waste Supplies and, Improperly Disposed Reusable items for the hospital along with waste sampling of various departments were taken to develop the baseline. Cook County personnel provided and or witnessed the waste sampling of various departments in hospital. The table below outlines the baseline data, obtained from the billing data for the 2011 calendar year, for the Regulated Medical Waste (RMW) used in our calculations:

2011 Summary of RMW Hauling		2011 Summary of Cardboard Hauling Cost	
MONTH	Weight (lbs.)	MONTH	Cost (\$)
January	95,866	January	\$3,485
February	68,402	February	\$3,217
March	99,737	March	\$3,435
April	84,871	April	\$3,690
May	88,562	May	\$3,217
June	86,981	June	\$3,485
July	90,716	July	\$3,485
August	98,041	August	\$4,621
September	83,969	September	\$3,485
October	85,593	October	\$3,485
November	77,284	November	\$3,485
December	73,495	December	\$3,485
TOTAL	1,033,517	TOTAL	\$42,575

Replace the proposed savings calculations under section 3. "Proposed Energy Savings Calculations and Methodology" in its entirety with the savings calculations listed below.

1. **Waste Segregation:** The savings are realized through routing a part of the general waste that was incorrectly disposed-of as regulated medical waste to the general waste stream.

RMW = pounds / year of Regulated Medical Waste

\$/GW = cost per pound of general waste

\$/RMW = pounds/year of regulated medical waste

GWINRMW = pounds/year of general waste in regulated medical waste stream

= RMW (Base) - RMW (Post)

Cost Savings = GWINRMW x (\$/RMW - \$/GW)

Measured Variables:

RMW (Post) will be measured annually.

Non-Measured variables, assumptions and stipulations:

\$/GW = \$0.097/lb,

\$/RMW = \$0.197/lb

RMW (Base) = 1,033,517 pounds / year

2. **General Waste Equipment:** The savings are realized by reducing the number of pulls/year (and hence costs) for waste haul off-site by installing an electronic communications package interfaced with Allied Disposal to maximize the capacity of the dumpsters.

$NPULL_{pre}$ = Number of Pulls per year pre-retrofit.
 $NPULL_{post}$ = Number of Pulls per year pre-retrofit.

Pre-Retrofit Costs = $NPULL_{pre} \times \$/pull$
Post-Retrofit Costs = $NPULL_{post} \times \$/pull$

Savings = Pre-Retrofit Costs – Post-Retrofit Costs
= $(NPULL_{pre} - NPULL_{post}) \times \$/pull$

Measured Variables:

$NPULL_{post}$ will be measured annually.

Non-Measured variables, assumptions and stipulations:

$NPULL_{pre} = 6 \text{ visits/week} \times 52 \text{ weeks/year} = 312 \text{ visits/year}$
 $\$/pull = \268

3. **Cardboard Recycling:** The benefits are realized through the reduction in cardboard removal cost plus the revenue generated by selling cardboard to a recycler by utilizing the card-board baler that exists on-site.

ECHC = Existing Cardboard Hauling Cost

CR = tons/year of cardboard recycled

$\$/CR$ = cost/ton of cardboard recycling

Pre Costs = ECHC

CR Revenue = $CR \times \$/CR$

Savings = $ECHC + (CR \times \$/CR)$

Measured Variables:

CR (Post) = tons/year of cardboard recycled annually

Non-Measured variables, assumptions and stipulations:

ECHC = \$42,575

$\$/CR = \$30/ton$

8. Changes to Exhibit M - Facility Operations and Maintenance Procedures Affected. On Page 241 of 397:

SH-20: Waste Management

The following new equipment will require maintenance

- Autoclave - The autoclave has been removed from the scope

9. Changes to Exhibit I – Economic Disclosure Statement

Add the following supplemental changes to Exhibit O starting on page 256 of 397. The originals with executed signatures have been submitted to Contract Compliance;

Johnson Controls, Inc.
 3007 Malmo Drive
 Arlington Heights, IL 60005
 Tel.# (847)364-1500 Fax# (847)364-1536



Cook County
 118 N. Clark
 Room 1020
 Chicago, IL 60602
 Attn: Sergio Silva
Subject: Stroger Hospital Campus Revised MBE Plan

Dear Sergio,

We have put together the following table to outline our revised MBE plan based on the replacement of the Vargas Mechanical contract.

Subcontractor	MWBE	Amount	Scope
Vargas	MBE	\$690,282.00	Shortfall Due to Vargas Contract
Dekayo	MBE	\$176,000.00	Autoclave
Dekayo	MBE	\$25,000.00	Utility Meters
PCS Solutions	MBE	\$60,000.00	Install VFDs
PCS Solutions	MBE	\$90,000.00	Heat Recovery Controls
PCS Indirect Participation	MBE	\$340,761.00	Projects with No MBE Requirements
Total		\$1,479.00	

PCS Solutions Indirect Participation Summary:	Amount
Packaging Corp.of America	\$119,400.00
111 W. Jackson	\$202,471.00
440 La Salle	\$18,890.00
Total	\$340,761.00

As you can see from the tables above approximately half of the gap is being made up by increasing our current MBE's contracts with additional direct participation. This is all we can find from a direct participation standpoint because the remaining work to be completed on the project is already very heavily committed to MBE firms. The remainder of the gap can be made up through indirect participation with PCS Solutions. PCS does work for us at many other jobsites and projects that do not require MBE participation. The table above shows three jobs that we would use as the basis for \$340,761 of indirect participation with PCS.

I have included a new LOI for indirect participation from PCS Solutions. I have also included their current certification. Thank you for your help in addressing this issue.

Sincerely,

Richard W. Smith

Branch General Manager
Johnson Controls, Inc.

Johnson Controls, Inc.
3007 Malmö Drive
Arlington Heights, IL 60005
Tel.# (847)364-1500 Fax# (847)364-1536



Cook County
118 N. Clark
Room 1020
Chicago, IL 60602
Attn: Sergio Silva

Date: 12/12/2014

Subject: Stroger Hospital Campus Revised MBE Plan

Dear Sergio,

As you are aware Johnson Controls has been executing a \$26.5 million energy savings project at the Stroger Hospital Campus. Upon completion of the project the County will save over 20% of their energy usage at these facilities. As part of the project we have participation goals of MBE - \$6,360,571 and WBE - \$2,699,775 for a total of \$9,060,346. Due to the insolvency of Vargas Mechanical we have experienced a shortfall in of our MBE plan. Below is how we intend to mitigate the shortfall. Our original plan contained LOIs with Vargas Mechanical totaling \$1.9 million. We were only able to realize \$640,000 of participation with Vargas before they chose to no longer take on work. This left us with a gap of approximately \$1.3 million. We were able to redirect about \$600,000 worth of this to other MBEs and WBE's, putting us \$235,000 ahead on our WBE projections, but \$880,000 behind on our MBE projections. The bottom line is we need another \$560,000 on top of the original \$340,000 in indirect participation with PCS Solutions to bridge the gap of our MBE plan. We are therefore requesting to utilize an additional \$560,000 of indirect participation with PCS Solutions and below is the list of jobs we would utilize as our basis for that indirect participation.

Other Johnson Controls Projects with PCS as the Subcontractor – Indirect Participation

Subcontract	Subcontractor Name	Number	Job Name	Subcontract Amount	Invoiced
EPA3960751	PCS	4010-0470	111 W Jackson 16th Fl Central Server	\$1,375	\$1,375
EPA3889334	PCS	4010-0282	111 W Jackson ACG 22nd Floor	\$1,800	\$1,800
EPA4046082	PCS	4010-0657	111 W. Jackson 23rd Floor Workday	\$68,900	\$68,900
EPA4001932	PCS	4010-0549	111 W. Jackson Extreme Reach Ste 1412	\$26,500	\$26,500
EPA4034214	PCS	4010-0633	111 W. Jackson Extreme Reach Ste 1412	\$6,300	\$6,300
S3849848	PCS	3010-0679	111 W. Jackson Kimley Horn Ste 770	\$9,750	\$9,750
S3849845	PCS	3010-0677	111 W. Jackson Morr Sharp Ste 1500	\$8,486	\$8,486
S3849844	PCS	3010-0658	111 W. Jackson Ste 800 CRS	\$14,990	\$14,990
EPA4035499	PCS	4010-0574	203 N Lasalle BAS Upgrade	\$100,000	\$75,000
EPA4012811	PCS	4010-0615	205-225 NMA - 14th floor	\$79,984	\$79,984
EPA3927013	PCS	4010-0335	225 NMA - Hall & Partners	\$6,400	\$6,400
EPA4035523	PCS	4010-0622	225 NMA - HR Flow Stations	\$25,430	\$25,430
EPA4044832	PCS	4010-0674	225 NMA 19th Floor Omnicom	\$40,332	\$4,033
S3790486	PCS	3010-0461	Catherine Cook School - Addition	\$54,950	\$54,950
EPA3913143	PCS	4010-0290	SSA Cooling Loop Retrofit	\$53,917	\$53,917
S3815139	PCS	3010-0559	St. Tarcissus	\$170,580	\$170,580
EPA4062470	PCS	5010-0270	St. Tarcissus Church - Wiring	\$2,310	\$2,310
Total				\$672,004	\$610,705

I have included a new LOI for indirect participation from PCS Solutions. I have also included their current certification. Thank you for your help in addressing this issue.

Sincerely,

Richard W. Smith
Branch General Manager
Johnson Controls, Inc.

Cook County Stroger Hospital Campus - M/WBE Utilization Plan							Current Contract Amount						
							\$26,497,859.00						
MBE							WBE						
Subcontractor	LOI Amount	Original %	Current contract amount as of November 2014	Current projection through the end of the project	Current end of Project Projection %	Difference	Subcontractor	LOI Amount	Original %	Current contract amount as of November 2014	Current projection through the end of the project	Current end of Project Projection %	Difference
Suarez Electric	\$524,634	1.9799%	\$597,142.00	\$627,142.00	2.3668%	\$102,508.00	Evergreen	\$705,800	2.6685%	\$618,151.78	\$618,151.78	2.3328%	-\$87,648.22
Bonaparte	\$180,857	0.6805%	\$0.00	\$0.00	0.0000%	-\$180,857.00	Stevenson Crane	\$27,500	0.1028%	\$56,898.00	\$56,898.00	0.2128%	\$28,898.00
Diversified General Contractors	\$1,319,266	4.9789%	\$1,285,931.00	\$1,265,931.00	4.7812%	-\$52,335.00	TAC Construction	\$296,000	1.1171%	\$262,895.00	\$262,895.00	0.9921%	-\$33,105.00
Universal Insulation	\$41,200	0.9103%	\$210,507.00	\$210,507.00	0.7944%	-\$30,693.00	All Tech	\$707,965	2.6718%	\$974,577.00	\$974,577.00	3.6779%	\$266,612.00
Vargas	\$1,953,385	7.3719%	\$643,738.00	\$643,738.00	2.4294%	-\$1,309,647.00	Autumn Mechanical	\$940,000	1.2831%	\$875,776.00	\$875,776.00	1.4184%	\$85,776.00
Applied Contracting & Controls	\$480,688	1.7889%	\$476,599.60	\$476,599.60	1.8062%	-\$17,905.60	TAG	\$262,710	0.9914%	\$263,635.00	\$263,635.00	0.9949%	\$925.00
PACE	\$238,697	0.9026%	\$0.00	\$0.00	0.0000%	-\$238,697.00	Ardmore	\$25,000	0.0945%	\$85,958.00	\$85,958.00	0.1957%	\$10,958.00
Code Engineering	\$242,829	0.9428%	\$667,860.50	\$667,860.50	2.5129%	\$417,537.50	CT Mechanical	\$815,000	1.1886%	\$812,954.00	\$812,954.00	1.1811%	-\$2,046.00
PCS Solutions	\$119,550	0.4512%	\$932,938.00	\$932,938.00	1.2569%	\$213,888.00	J-MAC	\$19,800	0.0747%	\$35,247.00	\$35,247.00	0.1330%	\$15,447.00
RID Resources	\$12,500	0.0472%	\$12,500.00	\$12,500.00	0.0472%	\$0.00							\$0.00
Level-1 Global Solution	\$30,000	0.1887%	\$50,000.00	\$50,000.00	0.1887%	\$0.00		\$2,669,775	10.1887%	\$2,985,591.78	\$2,985,591.78	11.0786%	\$285,816.78
Enviroplus	\$75,781	0.2859%	\$64,886.98	\$64,886.98	0.2447%	-\$10,924.62							
Primera Eng.	\$89,700	2.2259%	\$602,700.00	\$602,700.00	2.2743%	\$18,000.00							
Dekayo	\$345,000	1.3020%	\$345,070.10	\$345,070.10	1.3023%	\$70.10							
ISR Enterprises			\$123,156.88	\$123,156.88	0.4648%	\$123,156.88							
Vario Mechanical			\$54,559.00	\$54,559.00	0.2069%	\$54,559.00							
Totals	\$5,960,571.00	24.0041%	\$5,430,082.41	\$5,480,032.41	20.6810%	-\$880,538.59							
Total shortfall MBE	-980,538.59												
Total overage WBE	625,816.78												
Total MWBE shortfall	-644,721.86												
Total MWBE shortfall %	-2.4331%												

ATTACHMENT B



OFFICE OF CONTRACT COMPLIANCE

JACQUELINE GOMEZ

DIRECTOR

118 N. Clark, County Building, Room 1020 • Chicago, Illinois 60602 • (312) 603-5502

TONI PRECKWINKLE

PRESIDENT

**Cook County Board
of Commissioners**

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13th District

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15th District

JEFFREY R. TOBOLSKI
16th District

SEAN M. MORRISON
17th District

October 21, 2016

Ms. Shannon E. Andrews
Chief Procurement Officer
118 N. Clark Street
County Building-Room 1018
Chicago, IL 60602

Re: Contract No.: 12-60-350 (Amendment No. 2)
Guarantee Energy Performance Contract
For Cook County Hospital and Health Care Facilities
Office of Capital Planning and

Dear Ms. Andrews:

The Office of Contract Compliance is in receipt of the above-referenced contract amendment and has reviewed this contract for compliance with the Minority- and Women- owned Business Enterprises (MBE/WBE) Ordinance. After careful review of our records as reported by the vendor, it has been determined the vendor is in compliance with the MBE/WBE Ordinance.

Sincerely,

Jacqueline Gomez
Contract Compliance Director
JG/smp

Cc: Cho Ng, OCPO
Elaine Lockwood-Bear, OCPP

MBE/WBE UTILIZATION PLAN - FORM 1

BIDDER/PROPOSER HEREBY STATES that all MBE/WBE firms included in this Plan are certified MBEs/WBEs by at least one of the entities listed in the General Conditions - Section 19.

I. BIDDER/PROPOSER MBE/WBE STATUS: (check the appropriate line)

- Bidder/Proposer is a certified MBE or WBE firm. (If so, attach copy of current Letter of Certification)
- Bidder/Proposer is a Joint Venture and one or more Joint Venture partners are certified MBEs or WBEs. (If so, attach copies of Letter(s) of Certification, a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its ownership interest in the Joint Venture and a completed Joint Venture Affidavit - available online at www.cookcountvill.gov/contractcompliance)
- Bidder/Proposer is not a certified MBE or WBE firm, nor a Joint Venture with MBE/WBE partners, but will utilize MBE and WBE firms either directly or indirectly in the performance of the Contract. (If so, complete Sections II below and the Letter(s) of Intent - Form 2).

II. Direct Participation of MBE/WBE Firms Indirect Participation of MBE/WBE Firms

NOTE: Where goals have not been achieved through direct participation, Bidder/Proposer shall include documentation outlining efforts to achieve Direct Participation at the time of Bid/Proposal submission. Indirect Participation will only be considered after all efforts to achieve Direct Participation have been exhausted. Only after written documentation of Good Faith Efforts is received will Indirect Participation be considered.

MBEs/WBEs that will perform as subcontractors/suppliers/consultants include the following:

MBE/WBE Firm: PCS Power & Communications Solutions, Inc.

Address: 279 E. Helen Road, Palatine, IL 60067

E-mail: italia@pcssolutions.com

Contact Person: Eduardo del Castillo Phone: (847) 358-8900

Dollar Amount Participation: \$ \$340,761 + \$560,000 = \$900,791

Percent Amount of Participation: 1.3 + 2.1 = 3.4 %

*Letter of Intent attached? Yes No

*Current Letter of Certification attached? Yes No

MBE/WBE Firm: _____

Address: _____

E-mail: _____

Contact Person: _____ Phone: _____

Dollar Amount Participation: \$ _____

Percent Amount of Participation: _____ %

*Letter of Intent attached? Yes _____ No _____

*Current Letter of Certification attached? Yes _____ No _____

Attach additional sheets as needed.

* Letter(s) of Intent and current Letters of Certification must be submitted at the time of bid.

MBE/WBE LETTER OF INTENT - FORM 2

M/WBE Firm: PCS Solutions, Inc. Certifying Agency: Cook County
Contact Person: Edwardo del Castillo Certification Expiration Date: 1/23/2015
Address: 279 E. Helen Road Ethnicity: Hispanic
City/State: Palatine, IL Zip: 60067 Bid/Proposal/Contract #: 08-50-1068P
Phone: (847) 358-8900 Fax: (847) 358-7730 FEIN #: 04-3763137
Email: italia@pcssolutions.com
Participation: Direct Indirect

Will the M/WBE firm be subcontracting any of the goods or services of this contract to another firm?

No Yes -- Please attach explanation. Proposed Subcontractor(s): _____

The undersigned M/WBE is prepared to provide the following Commodities/Services for the above named Project/ Contract: (If more space is needed to fully describe M/WBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)

Electrical Contracting Services

Indicate the Dollar Amount, Percentage, and the Terms of Payment for the above-described Commodities/ Services:

: \$560,000 Progress Payments based on % of completion

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement for the above work, conditioned upon (1) the Bidder/Proposer's receipt of a signed contract from the County of Cook; (2) Undersigned Subcontractor remaining compliant with all relevant credentials, codes, ordinances and statutes required by Contractor, Cook County, and the State to participate as a MBE/WBE firm for the above work. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

Signature (M/WBE)
Edwardo del Castillo
Print Name PCS Power &
Communications Solutions, Inc
Firm Name

Signature (Prime Bidder/Proposer)
Richard W Smith
Print Name
Johnson Controls Inc.
Firm Name

Date 12-11-14

Date _____

Subscribed and sworn before me

Subscribed and sworn before me

this 11th day of Dec, 2014

this _____ day of _____, 20_____

Notary Public Tanya L Italia

Notary Public _____



SEAL

MBE/WBE LETTER OF INTENT - FORM 2

M/WBE Firm: PCS Solutions, Inc. Certifying Agency: Cook County
Contact Person: Eduardo del Castillo Certification Expiration Date: 1/23/2015
Address: 279 E. Helen Road Ethnicity: Hispanic
City/State: Palatine, IL Zip: 60067 Bid/Proposal/Contract #: 08-50-1068P
Phone: (847) 358-8900 Fax: (847) 358-7730 FEIN #: 04-3763137
Email: italia@pcssolutions.com

Participation: Direct Indirect

Will the M/WBE firm be subcontracting any of the goods or services of this contract to another firm?

No Yes - Please attach explanation. Proposed Subcontractor(s): _____

The undersigned M/WBE is prepared to provide the following Commodities/Services for the above named Project/ Contract: (if more space is needed to fully describe M/WBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)

Electrical Contracting Services

Indicate the **Dollar Amount**, **Percentage**, and the **Terms of Payment** for the above-described Commodities/ Services:

\$340,761 Progress Payments based on % of completion

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement for the above work, conditioned upon (1) the Bidder/Proposer's receipt of a signed contract from the County of Cook; (2) Undersigned Subcontractor remaining compliant with all relevant credentials, codes, ordinances and statutes required by Contractor, Cook County, and the State to participate as a MBE/WBE firm for the above work. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

Signature (M/WBE)

Eduardo del Castillo

Print Name PCS Power &

Communications Solutions, Inc

Firm Name

Date

Subscribed and sworn before me

this _____ day of _____, 20____.

Notary Public _____

Signature (Prime Bidder/Proposer)

Richard W Smith

Print Name

Johnson Controls Inc.

Firm Name

Date

Subscribed and sworn before me

this 9 day of June, 2014

Notary Public Michelle R Trachsel

4830538.1

SEAL

39





COUNTY OF COOK BUREAU OF FINANCE
 OFFICE OF CONTRACT COMPLIANCE
JACQUELINE GOMEZ, DIRECTOR
 118 N Clark, Room 1020 | Chicago, Illinois 60602-1304 | Tel (312) 603-5502

TONI PRECKWINKLE

PRESIDENT
 Cook County Board
 of Commissioners

EARLEAN COLLINS
 1st District

ROBERT STEELE
 2nd District

JERRY BUTLER
 3rd District

STANLEY MOORE
 4th District

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JOAN PATRICIA MURPHY
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JESUS G. GARCIA
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EDWIN REYES
 8th District

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 9th District

BRIDGET GAINER
 10th District

JOHN P. DALEY
 11th District

JOHN A. FRITCHEY
 12th District

LARRY SUFFREDIN
 13th District

GREGG GOSLIN
 14th District

TIMOTHY O. SCHNEIDER
 15th District

JEFFREY R. TOBOLSKI
 16th District

ELIZABETH ANN DODD GORMAN
 17th District

January 23, 2014

Mr. Edward del Castillo, President
 PCS Power & Communications Inc.
 d/b/a Kel-Tech Electric Co.
 279 E. Helen Road
 Palatine, IL 60067

Annual Certification Expires: **January 23, 2015**

Dear Mr. Edward del Castillo:

Congratulations on your continued eligibility for Certification as a MBE by Cook County Government. This Certification is valid until **January 23, 2015**.

As a condition of continued Certification, you must file a "Re-Certification Affidavit" within **sixty (60) business days** prior to the Annual Certification Expiration date. Failure to file this Affidavit shall result in the termination of your Certification. You must notify Cook County's Office of Contract Compliance of any change in ownership or control or any other matters or facts affecting your firm's eligibility for Certification within **fifteen (15) business days** of such change.

Cook County Government may commence action to remove your firm as a certified firm if you fail to notify us of any changes of facts affecting your firm's Certification, or if your firm otherwise fails to cooperate with the County in any inquiry or investigation. Removal of your status may also be commenced if your firm is found to be involved in bidding or contractual irregularities.

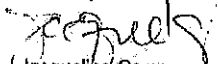
Your firm's name will be listed in Cook County's Directory of certified firms in the following area(s) of specialty:

Construction: Electrical – HVAC Temperature Control Wiring, Electrical Installation

Your firm's participation on Cook County contracts will be credited toward MBE goals in your area(s) of specialty. While your participation on Cook County contracts is not limited to your specialty, credit toward MBE goals will be given only for work done in the specialty category.

Thank you for your continued interest in Cook County Government's Minority, Women, Veteran, and Service-Disabled Veteran Business Enterprise Program.

Sincerely,


 Jacqueline Gomez
 Contract Compliance Director
 JG/ek

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute: All Tech Electrical
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant: Kathy Esposito
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): lmorcin@alltechenergy.com
Company Address (Contractor): 3007 Malmö Drive	Company Address (Subcontractor): 4645 138th St
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Crestwood, Illinois 60445
Telephone and Fax (Contractor): 847/806-4451	Telephone and Fax (Subcontractor): 708-293-1127
Estimated Start and Completion Dates (Contractor): July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor): July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.


<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Electrical	\$622,209.00

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature  Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	Applied Controls & Contracting
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	George Kinnison
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	gkinnison@accshome.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	539 W. Taft Dr.
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	South Holland, IL 60473
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	708-596-7400
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.


<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Electrical/Controls	\$478,837.96

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature  Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	Ardmore Associates
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Cheryl Thomas
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	cthomas@ardmoreassociates.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	33 N Dearborn St 1720
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Chicago, Illinois, 60602
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	312-795-1400
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

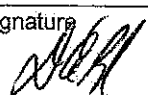
<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Project Administration	\$35,958.50

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature  Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	Code Engineering
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Sim Dawson
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	code.sim@comcast.net
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	2021 Midwest Rd
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Oakbrook, Illinois, 60523
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	630/728-5314
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Electrical	\$667,360.50

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature



Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	Controlled Environment Test & Balance
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Sam Daou
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	cetb59@hotmail.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	1350 Remington Road U
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Schaumburg, Illinois, 60173
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	847/490-8400
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.


<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Test & Balancing	\$247,006.00

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature 

Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input checked="" type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Environmental Research Associates added or substitute:
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant: Jack Glezen
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): Jack@ereseearchassoc.com
Company Address (Contractor): 3007 Malmo Drive	Company Address (Subcontractor): 6400 Gilbert Lake Rd.
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Bloomfield Hills, MI 48301
Telephone and Fax (Contractor): 847/806-4451	Telephone and Fax (Subcontractor): 248/594-8407
Estimated Start and Completion Dates (Contractor): July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor): July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Healthcare Environmental Consultant	\$168,400.00

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature



Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	Enviroplus
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Bob Garcia
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	Bob@enviroplus-inc.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	8044 Lawndale Avenue
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Skokie, Illinois, 60076
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	847/343-3051
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Hazardous Material Abatement	\$71,687.63

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature



Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

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Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	Evergreen Supply
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Kelly Gallagher
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	kgallagher@everlights.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	9901 S. Torrence Ave.
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Chicago, Illinois, 60617
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	773/734-9873
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.


<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Lighting Supply	\$513,707.30

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature 

Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete


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Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	H2O Technologies
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Cynthia Stillinger
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	cstillinger@h2oappliedtech.com
Company Address (Contractor):	3007 Malmö Drive	Company Address (Subcontractor):	50 Federal St., 4th Fl
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Boston, MA 02110
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	617/428-8600
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Mechanical	\$193,083.84

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls
 Name Darryl Baker
 Title Operations Manager
 Prime Contractor Signature  Date 10/05/2016

Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

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Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute: Hill Mechanical
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant: Dan Honeman
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): dan.honeman@hillmech.com
Company Address (Contractor): 3007 Malmo Drive	Company Address (Subcontractor): 11045 Gage Ave.
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Franklin Park, IL 60131
Telephone and Fax (Contractor): 847/806-4451	Telephone and Fax (Subcontractor): 847/451-5016
Estimated Start and Completion Dates (Contractor): July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor): July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.


<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Mechanical	\$8,281,800.00

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature  Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete


The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	HTS Chicago
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Robert McCabe
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	robertm@htseng.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	107 W. Willow Ave.
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Wheaton, Illinois, 60187
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	630/352-3693
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Air Filter Supplier/Engineering	\$1,540,610.00

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls
 Name Darryl Baker
 Title Operations Manager
 Prime Contractor Signature  Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

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Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute: Level 1 Solutions
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant: Thomas McElroy
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): tdm@level-1.com
Company Address (Contractor): 3007 Malmo Drive	Company Address (Subcontractor): 10 N. Dearborn St., Suite 700
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Chicago, Illinois
Telephone and Fax (Contractor): 847/806-4451	Telephone and Fax (Subcontractor): 312/644-9400
Estimated Start and Completion Dates (Contractor): July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor): July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Information Technology	\$50,000.00

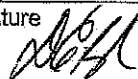
The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature



Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
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<input type="radio"/> Check Complete

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Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute: PCS Solutions
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant: Edward Del Castillo
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): itoliaepcsolutions.com
Company Address (Contractor): 3007 Malmo Drive	Company Address (Subcontractor): 1279 E. Helen Rd.
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Palatine, Illinois 60067
Telephone and Fax (Contractor): 847/806-4451	Telephone and Fax (Subcontractor): 847/358-8900
Estimated Start and Completion Dates (Contractor): July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor): July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.


<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Electrical/Controls	\$ 900,791.00

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature  Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input checked="" type="radio"/> Check Complete

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Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	Primera Engineering
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Erin Inman
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	einman@primeraeng.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	100 S. Wacker Dr., Suite 700
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Chicago, Illinois 60606
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	312/606-0910
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.


<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Engineering	\$ 52,500.00

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature  Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input checked="" type="radio"/> Check Complete


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Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	Regulatory Compliance Management
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Matt Solatka
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	msolatka@rcminc.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	5400 East Ave.
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Countryside, Illinois 60525
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	708/978-1200
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Environmental Remediation Monitoring	\$ 24,527.50

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls
 Name Darryl Baker
 Title Operations Manager
 Prime Contractor Signature  Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input checked="" type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	RLD Resources
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Kelly Shelton
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	kelly@shelton-solutions.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	333 N. Michigan Ave., Suite 2800
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Chicago, Illinois 60601
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	312/795-0798
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Energy Star Analysis	\$ 12,500.00

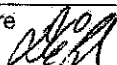
The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature



Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute: Suarez Electric
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant: Dave Suarez
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): dsuarez@suarezelectric.com
Company Address (Contractor): 3007 Malmo Drive	Company Address (Subcontractor): 4439 W. Montrose
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Chicago, Illinois 60641
Telephone and Fax (Contractor): 847/806-4451	Telephone and Fax (Subcontractor): 773/202-9077
Estimated Start and Completion Dates (Contractor): July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor): July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.


<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Electrical/Lighting	\$ 635,680.00

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature  Date 10/05/2016

**Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form**

OCPO ONLY:
<input type="radio"/> Disqualification
<input type="radio"/> Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract.** In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date:	10/05/2016
Total Bid or Proposal Amount:	\$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	TAG Properties
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Angela Ford
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	aofd@thisistag.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	1006 S. Michigan Ave., Suite 606
City, State and Zip (Contractor):	Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Chicago, Illinois
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	312/447-0400
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

<u>Description of Services or Supplies</u>	<u>Total Price of Subcontract for Services or Supplies</u>
Sustainability Services	\$ 263,635.00

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Contractor Johnson Controls

Name Darryl Baker

Title Operations Manager

Prime Contractor Signature



Date 10/05/2016

MBE/WBE UTILIZATION PLAN - FORM 1

BIDDER/PROPOSER HEREBY STATES that all MBE/WBE firms included in this Plan are certified MBEs/WBEs by at least one of the entities listed in the General Conditions – Section 19.

I. BIDDER/PROPOSER MBE/WBE STATUS: (check the appropriate line)

- Bidder/Proposer is a certified MBE or WBE firm. (If so, attach copy of current Letter of Certification)
- Bidder/Proposer is a Joint Venture and one or more Joint Venture partners are certified MBEs or WBEs. (If so, attach copies of Letter(s) of Certification, a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its ownership interest in the Joint Venture and a completed Joint Venture Affidavit – available online at www.cookcountyll.gov/contractcompliance)
- Bidder/Proposer is not a certified MBE or WBE firm, nor a Joint Venture with MBE/WBE partners, but will utilize MBE and WBE firms either directly or indirectly in the performance of the Contract. (If so, complete Sections II below and the Letter(s) of Intent – Form 2).

II. Direct Participation of MBE/WBE Firms Indirect Participation of MBE/WBE Firms

NOTE: Where goals have not been achieved through direct participation, Bidder/Proposer shall include documentation outlining efforts to achieve Direct Participation at the time of Bid/Proposal submission. Indirect Participation will only be considered after all efforts to achieve Direct Participation have been exhausted. Only after written documentation of Good Faith Efforts is received will Indirect Participation be considered.

MBEs/WBEs that will perform as subcontractors/suppliers/consultants include the following:

MBE/WBE Firm: See Pages 39 through Pages 42

Address: _____

E-mail: Darryl.baker@jci.com

Contact Person: _____ Phone: _____

Dollar Amount Participation: \$ _____

Percent Amount of Participation: _____ %

*Letter of Intent attached? Yes _____ No _____

*Current Letter of Certification attached? Yes _____ No _____

MBE/WBE Firm: _____

Address: _____

E-mail: see attached Delegation of Authority

Contact Person: _____ Phone: _____

Dollar Amount Participation: \$ _____

Percent Amount of Participation: _____ %

*Letter of Intent attached? Yes _____ No _____

*Current Letter of Certification attached? Yes _____ No _____

Attach additional sheets as needed.

*** Letter(s) of Intent and current Letters of Certification must be submitted at the time of bid.**

MBE/WBE LETTER OF INTENT - FORM 2

M/WBE Firm: See Pages 39 through Pages 42

Certifying Agency: _____

Contact Person: _____

Certification Expiration Date: _____

Address: _____

Ethnicity: _____

City/State: _____ Zip: _____

Bid/Proposal/Contract #: _____

Phone: _____ Fax: _____

FEIN #: 39-038-0010

Email: Darryl.baker@jci.com

Participation: Direct Indirect

Will the M/WBE firm be subcontracting any of the goods or services of this contract to another firm?

No Yes - Please attach explanation. Proposed Subcontractor(s): _____

The undersigned M/WBE is prepared to provide the following Commodities/Services for the above named Project/ Contract: *(If more space is needed to fully describe M/WBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)*

Indicate the **Dollar Amount**, **Percentage**, and the **Terms of Payment** for the above-described Commodities/ Services:

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement for the above work, conditioned upon (1) the Bidder/Proposer's receipt of a signed contract from the County of Cook; (2) Undersigned Subcontractor remaining compliant with all relevant credentials, codes, ordinances and statutes required by Contractor, Cook County, and the State to participate as a MBE/WBE firm for the above work. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

Signature (M/WBE)

Signature (Prime Bidder/Proposer)

Print Name

Print Name

Firm Name

Firm Name

October 13, 2016

October 13, 2016

Date

Date

Subscribed and sworn before me

Subscribed and sworn before me

this ____ day of _____, 20____

this ____ day of _____, 20____

Notary Public _____

Notary Public _____

SEAL

SEAL

**COOK COUNTY
ECONOMIC DISCLOSURE STATEMENT
AND EXECUTION DOCUMENT
INDEX**

Section	Description	Pages
1	Instructions for Completion of EDS	EDS i - ii
2	Certifications	EDS 1-2
3	Economic and Other Disclosures, Affidavit of Child Support Obligations, Disclosure of Ownership Interest and Familial Relationship Disclosure Form	EDS 3 - 12
4	Cook County Affidavit for Wage Theft Ordinance	EDS 13-14
5	Contract and EDS Execution Page	EDS 15-17
6	Cook County Signature Page	EDS 18

SECTION 1
INSTRUCTIONS FOR COMPLETION OF
ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT

This Economic Disclosure Statement and Execution Document ("EDS") is to be completed and executed by every Bidder on a County contract, every Proposer responding to a Request for Proposals, and every Respondent responding to a Request for Qualifications, and others as required by the Chief Procurement Officer. The execution of the EDS shall serve as the execution of a contract awarded by the County. The Chief Procurement Officer reserves the right to request that the Bidder or Proposer, or Respondent provide an updated EDS on an annual basis.

Definitions. Terms used in this EDS and not otherwise defined herein shall have the meanings given to such terms in the Instructions to Bidders, General Conditions, Request for Proposals, Request for Qualifications, as applicable.

Affiliate means a person that directly or indirectly through one or more intermediaries, Controls is Controlled by, or is under common Control with the Person specified.

Applicant means a person who executes this EDS.

Bidder means any person who submits a Bid.

Code means the Code of Ordinances, Cook County, Illinois available on municode.com.

Contract shall include any written document to make Procurements by or on behalf of Cook County.

Contractor or Contracting Party means a person that enters into a Contract with the County.

Control means the unfettered authority to directly or indirectly manage governance, administration, work, and all other aspects of a business.

EDS means this complete Economic Disclosure Statement and Execution Document, including all sections listed in the Index and any attachments.

Joint Venture means an association of two or more Persons proposing to perform a for-profit business enterprise. Joint Ventures must have an agreement in writing specifying the terms and conditions of the relationship between the partners and their relationship and respective responsibility for the Contract

Lobby or lobbying means to, for compensation, attempt to influence a County official or County employee with respect to any County matter.

Lobbyist means any person who lobbies.

Person or Persons means any individual, corporation, partnership, Joint Venture, trust, association, Limited Liability Company, sole proprietorship or other legal entity.

Prohibited Acts means any of the actions or occurrences which form the basis for disqualification under the Code, or under the Certifications hereinafter set forth.

Proposal means a response to an RFP.

Proposer means a person submitting a Proposal.

Response means response to an RFQ.

Respondent means a person responding to an RFQ.

RFP means a Request for Proposals issued pursuant to this Procurement Code.

RFQ means a Request for Qualifications issued to obtain the qualifications of interested parties.

**INSTRUCTIONS FOR COMPLETION OF
ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT**

Section 1: Instructions. Section 1 sets forth the instructions for completing and executing this EDS.

Section 2: Certifications. Section 2 sets forth certifications that are required for contracting parties under the Code and other applicable laws. Execution of this EDS constitutes a warranty that all the statements and certifications contained, and all the facts stated, in the Certifications are true, correct and complete as of the date of execution.

Section 3: Economic and Other Disclosures Statement. Section 3 is the County's required Economic and Other Disclosures Statement form. Execution of this EDS constitutes a warranty that all the information provided in the EDS is true, correct and complete as of the date of execution, and binds the Applicant to the warranties, representations, agreements and acknowledgements contained therein.

Required Updates. The Applicant is required to keep all information provided in this EDS current and accurate. In the event of any change in the information provided, including but not limited to any change which would render inaccurate or incomplete any certification or statement made in this EDS, the Applicant shall supplement this EDS up to the time the County takes action, by filing an amended EDS or such other documentation as is required.

Additional Information. The County's Governmental Ethics and Campaign Financing Ordinances impose certain duties and obligations on persons or entities seeking County contracts, work, business, or transactions, and the Applicant is expected to comply fully with these ordinances. For further information please contact the Director of Ethics at (312) 603-4304 (69 W. Washington St. Suite 3040, Chicago, IL 60602) or visit the web-site at cookcountyil.gov/ethics-board-of.

Authorized Signers of Contract and EDS Execution Page. If the Applicant is a corporation, the President and Secretary must execute the EDS. In the event that this EDS is executed by someone other than the President, attach hereto a certified copy of that section of the Corporate By-Laws or other authorization by the Corporation, satisfactory to the County that permits the person to execute EDS for said corporation. If the corporation is not registered in the State of Illinois, a copy of the Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.

If the Applicant is a partnership or joint venture, all partners or joint venturers must execute the EDS, unless one partner or joint venture has been authorized to sign for the partnership or joint venture, in which case, the partnership agreement, resolution or evidence of such authority satisfactory to the Office of the Chief Procurement Officer must be submitted with this Signature Page.

If the Applicant is a member-managed LLC all members must execute the EDS, unless otherwise provided in the operating agreement, resolution or other corporate documents. If the Applicant is a manager-managed LLC, the manager(s) must execute the EDS. The Applicant must attach either a certified copy of the operating agreement, resolution or other authorization, satisfactory to the County, demonstrating such person has the authority to execute the EDS on behalf of the LLC. If the LLC is not registered in the State of Illinois, a copy of a current Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.

If the Applicant is a Sole Proprietorship, the sole proprietor must execute the EDS.

A "Partnership" "Joint Venture" or "Sole Proprietorship" operating under an Assumed Name must be registered with the Illinois county in which it is located, as provided in 805 ILCS 405 (2012), and documentation evidencing registration must be submitted with the EDS.

Effective October 1, 2016 all foreign corporations and LLCs must be registered with the Illinois Secretary of State's Office unless a statutory exemption applies to the applicant. Applicants who are exempt from registering must provide a written statement explaining why they are exempt from registering as a foreign entity with the Illinois Secretary of State's Office.

SECTION 2

CERTIFICATIONS

THE FOLLOWING CERTIFICATIONS ARE MADE PURSUANT TO STATE LAW AND THE CODE. THE APPLICANT IS CAUTIONED TO CAREFULLY READ THESE CERTIFICATIONS PRIOR TO SIGNING THE SIGNATURE PAGE. SIGNING THE SIGNATURE PAGE SHALL CONSTITUTE A WARRANTY BY THE APPLICANT THAT ALL THE STATEMENTS, CERTIFICATIONS AND INFORMATION SET FORTH WITHIN THESE CERTIFICATIONS ARE TRUE, COMPLETE AND CORRECT AS OF THE DATE THE SIGNATURE PAGE IS SIGNED. THE APPLICANT IS NOTIFIED THAT IF THE COUNTY LEARNS THAT ANY OF THE FOLLOWING CERTIFICATIONS WERE FALSELY MADE, THAT ANY CONTRACT ENTERED INTO WITH THE APPLICANT SHALL BE SUBJECT TO TERMINATION.

A. PERSONS AND ENTITIES SUBJECT TO DISQUALIFICATION

No person or business entity shall be awarded a contract or sub-contract, for a period of five (5) years from the date of conviction or entry of a plea or admission of guilt, civil or criminal, if that person or business entity:

- 1) Has been convicted of an act committed, within the State of Illinois, of bribery or attempting to bribe an officer or employee of a unit of state, federal or local government or school district in the State of Illinois in that officer's or employee's official capacity;
- 2) Has been convicted by federal, state or local government of an act of bid-rigging or attempting to rig bids as defined in the Sherman Anti-Trust Act and Clayton Act. Act. 15 U.S.C. Section 1 *et seq.*;
- 3) Has been convicted of bid-rigging or attempting to rig bids under the laws of federal, state or local government;
- 4) Has been convicted of an act committed, within the State, of price-fixing or attempting to fix prices as defined by the Sherman Anti-Trust Act and the Clayton Act. 15 U.S.C. Section 1, *et seq.*;
- 5) Has been convicted of price-fixing or attempting to fix prices under the laws the State;
- 6) Has been convicted of defrauding or attempting to defraud any unit of state or local government or school district within the State of Illinois;
- 7) Has made an admission of guilt of such conduct as set forth in subsections (1) through (6) above which admission is a matter of record, whether or not such person or business entity was subject to prosecution for the offense or offenses admitted to; or
- 8) Has entered a plea of *nolo contendere* to charge of bribery, price-fixing, bid-rigging, or fraud, as set forth in subparagraphs (1) through (6) above.

In the case of bribery or attempting to bribe, a business entity may not be awarded a contract if an official, agent or employee of such business entity committed the Prohibited Act on behalf of the business entity and pursuant to the direction or authorization of an officer, director or other responsible official of the business entity, and such Prohibited Act occurred within three years prior to the award of the contract. In addition, a business entity shall be disqualified if an owner, partner or shareholder controlling, directly or indirectly, 20% or more of the business entity, or an officer of the business entity has performed any Prohibited Act within five years prior to the award of the Contract.

THE APPLICANT HEREBY CERTIFIES THAT: The Applicant has read the provisions of Section A, Persons and Entities Subject to Disqualification, that the Applicant has not committed any Prohibited Act set forth in Section A, and that award of the Contract to the Applicant would not violate the provisions of such Section or of the Code.

B. BID-RIGGING OR BID ROTATING

THE APPLICANT HEREBY CERTIFIES THAT: In accordance with 720 ILCS 5/33 E-11, neither the Applicant nor any Affiliated Entity is barred from award of this Contract as a result of a conviction for the violation of State laws prohibiting bid-rigging or bid rotating.

C. DRUG FREE WORKPLACE ACT

THE APPLICANT HEREBY CERTIFIES THAT: The Applicant will provide a drug free workplace, as required by (30 ILCS 580/3).

D. DELINQUENCY IN PAYMENT OF TAXES

THE APPLICANT HEREBY CERTIFIES THAT: *The Applicant is not an owner or a party responsible for the payment of any tax or fee administered by Cook County, such as bar award of a contract or subcontract pursuant to the Code, Chapter 34, Section 34-171.*

E. HUMAN RIGHTS ORDINANCE

No person who is a party to a contract with Cook County ("County") shall engage in unlawful discrimination or sexual harassment against any individual in the terms or conditions of employment, credit, public accommodations, housing, or provision of County facilities, services or programs (Code Chapter 42, Section 42-30 *et seq.*).

F. ILLINOIS HUMAN RIGHTS ACT

THE APPLICANT HEREBY CERTIFIES THAT: *It is in compliance with the Illinois Human Rights Act (775 ILCS 5/2-105), and agrees to abide by the requirements of the Act as part of its contractual obligations.*

G. INSPECTOR GENERAL (COOK COUNTY CODE, CHAPTER 34, SECTION 34-174 and Section 34-250)

The Applicant has not willfully failed to cooperate in an investigation by the Cook County Independent Inspector General or to report to the Independent Inspector General any and all information concerning conduct which they know to involve corruption, or other criminal activity, by another county employee or official, which concerns his or her office of employment or County related transaction.

The Applicant has reported directly and without any undue delay any suspected or known fraudulent activity in the County's Procurement process to the Office of the Cook County Inspector General.

H. CAMPAIGN CONTRIBUTIONS (COOK COUNTY CODE, CHAPTER 2, SECTION 2-585)

THE APPLICANT CERTIFIES THAT: It has read and shall comply with the Cook County's Ordinance concerning campaign contributions, which is codified at Chapter 2, Division 2, Subdivision II, Section 585, and can be read in its entirety at www.municode.com.

I. GIFT BAN, (COOK COUNTY CODE, CHAPTER 2, SECTION 2-574)

THE APPLICANT CERTIFIES THAT: It has read and shall comply with the Cook County's Ordinance concerning receiving and soliciting gifts and favors, which is codified at Chapter 2, Division 2, Subdivision II, Section 574, and can be read in its entirety at www.municode.com.

J. LIVING WAGE ORDINANCE PREFERENCE (COOK COUNTY CODE, CHAPTER 34, SECTION 34-160;

Unless expressly waived by the Cook County Board of Commissioners, the Code requires that a living wage must be paid to individuals employed by a Contractor which has a County Contract and by all subcontractors of such Contractor under a County Contract, throughout the duration of such County Contract. The amount of such living wage is annually by the Chief Financial Officer of the County, and shall be posted on the Chief Procurement Officer's website.

The term "Contract" as used in Section 4, I, of this EDS, specifically excludes contracts with the following:

- 1) Not-For Profit Organizations (defined as a corporation having tax exempt status under Section 501(C)(3) of the United State Internal Revenue Code and recognized under the Illinois State not-for-profit law);
- 2) Community Development Block Grants;
- 3) Cook County Works Department;
- 4) Sheriff's Work Alternative Program; and
- 5) Department of Correction inmates.

SECTION 3

REQUIRED DISCLOSURES

1. DISCLOSURE OF LOBBYIST CONTACTS

List all persons that have made lobbying contacts on your behalf with respect to this contract:

Name	Address

2. LOCAL BUSINESS PREFERENCE STATEMENT (CODE, CHAPTER 34, SECTION 34-230)

Local business means a Person, including a foreign corporation authorized to transact business in Illinois, having a bona fide establishment located within the County at which it is transacting business on the date when a Bid is submitted to the County, and which employs the majority of its regular, full-time work force within the County. A Joint Venture shall constitute a Local Business if one or more Persons that qualify as a "Local Business" hold interests totaling over 50 percent in the Joint Venture, even if the Joint Venture does not, at the time of the Bid submittal, have such a bona fide establishment within the County.

a) Is Applicant a "Local Business" as defined above?
Yes: No:

b) If yes, list business addresses within Cook County:
850 West Jackson St., Suite 420, Chicago, IL 60607
3007 Malmo Dr., Arlington Hts, IL 60005
1500 Huntington Dr., Calumet City, IL 60409

c) Does Applicant employ the majority of its regular full-time workforce within Cook County?
Yes: No:

3. THE CHILD SUPPORT ENFORCEMENT ORDINANCE (CODE, CHAPTER 34, SECTION 34-172)

Every Applicant for a County Privilege shall be in full compliance with any child support order before such Applicant is entitled to receive or renew a County Privilege. When delinquent child support exists, the County shall not issue or renew any County Privilege, and may revoke any County Privilege.

All Applicants are required to review the Cook County Affidavit of Child Support Obligations attached to this EDS (EDS-5) and complete the Affidavit, based on the instructions in the Affidavit.

4. REAL ESTATE OWNERSHIP DISCLOSURES.

The Applicant must indicate by checking the appropriate provision below and providing all required information that either:

- a) The following is a complete list of all real estate owned by the Applicant in Cook County:

PERMANENT INDEX NUMBER(S): 08-23-202-044-0000

(ATTACH SHEET IF NECESSARY TO LIST ADDITIONAL INDEX NUMBERS)

OR:

- b) The Applicant owns no real estate in Cook County.

5. EXCEPTIONS TO CERTIFICATIONS OR DISCLOSURES.

If the Applicant is unable to certify to any of the Certifications or any other statements contained in this EDS and not explained elsewhere in this EDS, the Applicant must explain below:

If the letters, "NA", the word "None" or "No Response" appears above, or if the space is left blank, it will be conclusively presumed that the Applicant certified to all Certifications and other statements contained in this EDS.

COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT

The Cook County Code of Ordinances (§2-610 *et seq.*) requires that any Applicant for any County Action must disclose information concerning ownership interests in the Applicant. This Disclosure of Ownership Interest Statement must be completed with all information current as of the date this Statement is signed. Furthermore, this Statement must be kept current, by filing an amended Statement, until such time as the County Board or County Agency shall take action on the application. The information contained in this Statement will be maintained in a database and made available for public viewing.

If you are asked to list names, but there are no applicable names to list, you must state NONE. An incomplete Statement will be returned and any action regarding this contract will be delayed. A failure to fully comply with the ordinance may result in the action taken by the County Board or County Agency being voided.

"Applicant" means any Entity or person making an application to the County for any County Action.

"County Action" means any action by a County Agency, a County Department, or the County Board regarding an ordinance or ordinance amendment, a County Board approval, or other County agency approval, with respect to contracts, leases, or sale or purchase of real estate.

"Person" "Entity" or "Legal Entity" means a sole proprietorship, corporation, partnership, association, business trust, estate, two or more persons having a joint or common interest, trustee of a land trust, other commercial or legal entity or any beneficiary or beneficiaries thereof.

This Disclosure of Ownership Interest Statement must be submitted by :

1. An Applicant for County Action and
2. A Person that holds stock or a beneficial interest in the Applicant and is listed on the Applicant's Statement (a "Holder") must file a Statement and complete #1 only under **Ownership Interest Declaration**.

Please print or type responses clearly and legibly. Add additional pages if needed, being careful to identify each portion of the form to which each additional page refers.

This Statement is being made by the Applicant or Stock/Beneficial Interest Holder

This Statement is an: Original Statement or Amended Statement

Identifying Information:

Name Johnson Controls

D/B/A: _____ FEIN NO.: 39-038-0010

Street Address: 3007 Malmo Drive

City: Arlington Heights State: Illinois Zip Code: 60005

Phone No.: 847/806-4451 Fax Number: 847/364/1536 Email: Darryl.baker@jci.com

Cook County Business Registration Number: same as Corp File Number
(Sole Proprietor, Joint Venture Partnership)

Corporate File Number (if applicable): 0037-918-2

Form of Legal Entity:

Sole Proprietor Partnership Corporation Trustee of Land Trust

Business Trust Estate Association Joint Venture

Other (describe) _____

Ownership Interest Declaration:

1. List the name(s), address, and percent ownership of each Person having a legal or beneficial interest (including ownership) of more than five percent (5%) in the Applicant/Holder.

Name	Address	Percentage Interest in Applicant/Holder
BlackRock, Inc.	40 East 52nd Street, New York, NY 10022	6.1%
Capital Research Global Investors,	333 South hope St., Los Angles, CA 90071	7.7%

2. If the interest of any Person listed in (1) above is held as an agent or agents, or a nominee or nominees, list the name and address of the principal on whose behalf the interest is held.

Name of Agent/Nominee	Name of Principal	Principal's Address

3. Is the Applicant constructively controlled by another person or Legal Entity? [] Yes [] No
 If yes, state the name, address and percentage of beneficial interest of such person, and the relationship under which such control is being or may be exercised.

Name	Address	Percentage of Beneficial Interest	Relationship

Corporate Officers, Members and Partners Information:

For all corporations, list the names, addresses, and terms for all corporate officers. For all limited liability companies, list the names, addresses for all members. For all partnerships and joint ventures, list the names, addresses, for each partner or joint venture.

Name	Address	Title (specify title of Office, or whether manager or partner/joint venture)	Term of Office

Declaration (check the applicable box):

- I state under oath that the Applicant has withheld no disclosure as to ownership interest in the Applicant nor reserved any information, data or plan as to the intended use or purpose for which the Applicant seeks County Board or other County Agency action.
- I state under oath that the Holder has withheld no disclosure as to ownership interest nor reserved any information required to be disclosed.

COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT SIGNATURE PAGE

Richard W. Smith

Name of Authorized Applicant/Holder Representative (please print or type)

Branch General Manager

Title

October 13, 2016

Date

847 545 5631

Phone Number

Signature

Richard.W.Smith@jci.com

E-mail address

My commission expires:

Subscribed to and sworn before me
this 13 day of 10, 2016

x Michelle R. Trachsel
Notary Public Signature

Notary Seal





COOK COUNTY BOARD OF ETHICS
 69 W. WASHINGTON STREET, SUITE 3040
 CHICAGO, ILLINOIS 60602
 312/603-4304 Office 312/603-9988 Fax

FAMILIAL RELATIONSHIP DISCLOSURE PROVISION

Nepotism Disclosure Requirement:

Doing a significant amount of business with the County requires that you disclose to the Board of Ethics the existence of any familial relationships with any County employee or any person holding elective office in the State of Illinois, the County, or in any municipality within the County. The Ethics Ordinance defines a significant amount of business for the purpose of this disclosure requirement as more than \$25,000 in aggregate County leases, contracts, purchases or sales in any calendar year.

If you are unsure of whether the business you do with the County or a County agency will cross this threshold, err on the side of caution by completing the attached familial disclosure form because, among other potential penalties, any person found guilty of failing to make a required disclosure or knowingly filing a false, misleading, or incomplete disclosure will be prohibited from doing any business with the County for a period of three years. The required disclosure should be filed with the Board of Ethics by January 1 of each calendar year in which you are doing business with the County and again with each bid/proposal/quotation to do business with Cook County. The Board of Ethics may assess a late filing fee of \$100 per day after an initial 30-day grace period.

The person that is doing business with the County must disclose his or her familial relationships. If the person on the County lease or contract or purchasing from or selling to the County is a business entity, then the business entity must disclose the familial relationships of the individuals who are and, during the year prior to doing business with the County, were:

- its board of directors,
- its officers,
- its employees or independent contractors responsible for the general administration of the entity,
- its agents authorized to execute documents on behalf of the entity, and
- its employees who directly engage or engaged in doing work with the County on behalf of the entity.

Do not hesitate to contact the Board of Ethics at (312) 603-4304 for assistance in determining the scope of any required familial relationship disclosure.

Additional Definitions:

“*Familial relationship*” means a person who is a spouse, domestic partner or civil union partner of a County employee or State, County or municipal official, or any person who is related to such an employee or official, whether by blood, marriage or adoption, as a:

- | | | |
|----------------------------------|--|--|
| <input type="checkbox"/> Parent | <input type="checkbox"/> Grandparent | <input checked="" type="checkbox"/> Stepfather |
| <input type="checkbox"/> Child | <input type="checkbox"/> Grandchild | <input type="checkbox"/> Stepmother |
| <input type="checkbox"/> Brother | <input type="checkbox"/> Father-in-law | <input type="checkbox"/> Stepson |
| <input type="checkbox"/> Sister | <input type="checkbox"/> Mother-in-law | <input type="checkbox"/> Stepdaughter |
| <input type="checkbox"/> Aunt | <input type="checkbox"/> Son-in-law | <input type="checkbox"/> Stepbrother |
| <input type="checkbox"/> Uncle | <input type="checkbox"/> Daughter-in-law | <input type="checkbox"/> Stepsister |
| <input type="checkbox"/> Niece | <input type="checkbox"/> Brother-in-law | <input type="checkbox"/> Halfbrother |
| <input type="checkbox"/> Nephew | <input type="checkbox"/> Sister-in-law | <input type="checkbox"/> Halfsister |

COOK COUNTY BOARD OF ETHICS
FAMILIAL RELATIONSHIP DISCLOSURE FORM

A. PERSON DOING OR SEEKING TO DO BUSINESS WITH THE COUNTY

Name of Person Doing Business with the County: Johnson Controls

Address of Person Doing Business with the County: 3007 Malmo Drive, Arlington Hts., IL 60005

Phone number of Person Doing Business with the County: _____

Email address of Person Doing Business with the County: _____

If Person Doing Business with the County is a Business Entity, provide the name, title and contact information for the individual completing this disclosure on behalf of the Person Doing Business with the County:

Darryl Baker, Operations Manager

B. DESCRIPTION OF BUSINESS WITH THE COUNTY

Append additional pages as needed and for each County lease, contract, purchase or sale sought and/or obtained during the calendar year of this disclosure (or the preceding calendar year if disclosure is made on January 1), identify:

The lease number, contract number, purchase order number, request for proposal number and/or request for qualification number associated with the business you are doing or seeking to do with the County: PO 186629-000-OP, Project 1260350

The aggregate dollar value of the business you are doing or seeking to do with the County: \$ 26,497,854.00

The name, title and contact information for the County official(s) or employee(s) involved in negotiating the business you are doing or seeking to do with the County: Richard W. Smith, Branch General Manager

The name, title and contact information for the County official(s) or employee(s) involved in managing the business you are doing or seeking to do with the County: Darryl Baker, Operation Manager

C. DISCLOSURE OF FAMILIAL RELATIONSHIPS WITH COUNTY EMPLOYEES OR STATE, COUNTY OR MUNICIPAL ELECTED OFFICIALS

Check the box that applies and provide related information where needed

The Person Doing Business with the County is an individual and there is no familial relationship between this individual and any Cook County employee or any person holding elective office in the State of Illinois, Cook County, or any municipality within Cook County.

The Person Doing Business with the County is a business entity and there is no familial relationship between any member of this business entity's board of directors, officers, persons responsible for general administration of the business entity, agents authorized to execute documents on behalf of the business entity or employees directly engaged in contractual work with the County on behalf of the business entity, and any Cook County employee or any person holding elective office in the State of Illinois, Cook County, or any municipality within Cook County.

**COOK COUNTY BOARD OF ETHICS
FAMILIAL RELATIONSHIP DISCLOSURE FORM**

- The Person Doing Business with the County is an **individual** and **there is a familial relationship** between this individual and at least one Cook County employee and/or a person or persons holding elective office in the State of Illinois, Cook County, and/or any municipality within Cook County. **The familial relationships are as follows:**

Name of Individual Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

If more space is needed, attach an additional sheet following the above format.

- The Person Doing Business with the County is a **business entity** and **there is a familial relationship** between at least one member of this business entity's board of directors, officers, persons responsible for general administration of the business entity, agents authorized to execute documents on behalf of the business entity and/or employees directly engaged in contractual work with the County on behalf of the business entity, on the one hand, and at least one Cook County employee and/or a person holding elective office in the State of Illinois, Cook County, and/or any municipality within Cook County, on the other. **The familial relationships are as follows:**

Name of Member of Board of Director for Business Entity Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Name of Officer for Business Entity Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Name of Person Responsible for the General Administration of the Business Entity Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
---	--	--	----------------------------------

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Name of Agent Authorized to Execute Documents for Business Entity Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
--	--	--	----------------------------------

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Name of Employee of Business Entity Directly Engaged in Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
--	--	--	----------------------------------

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

If more space is needed, attach an additional sheet following the above format.

VERIFICATION: To the best of my knowledge, the information I have provided on this disclosure form is accurate and complete. I acknowledge that an inaccurate or incomplete disclosure is punishable by law, including but not limited to fines and debarment.

October 13, 2016

Signature of Recipient

Date

SUBMIT COMPLETED FORM TO: Cook County Board of Ethics
 69 West Washington Street, Suite 3040, Chicago, Illinois 60602
 Office (312) 603-4304 – Fax (312) 603-9988
 CookCounty.Ethics@cookcountyil.gov

* Spouse, domestic partner, civil union partner or parent, child, sibling, aunt, uncle, niece, nephew, grandparent or grandchild by blood, marriage (i.e. in laws and step relations) or adoption.

SECTION 4

COOK COUNTY AFFIDAVIT FOR WAGE THEFT ORDINANCE

Effective May 1, 2015, every Person, ***including Substantial Owners***, seeking a Contract with Cook County must comply with the Cook County Wage Theft Ordinance set forth in Chapter 34, Article IV, Section 179. Any Person/Substantial Owner, who fails to comply with Cook County Wage Theft Ordinance, may request that the Chief Procurement Officer grant a reduction or waiver in accordance with Section 34-179(d).

"Contract" means any written document to make Procurements by or on behalf of Cook County.

"Person" means any individual, corporation, partnership, Joint Venture, trust, association, limited liability company, sole proprietorship or other legal entity.

"Procurement" means obtaining supplies, equipment, goods, or services of any kind.

"Substantial Owner" means any person or persons who own or hold a twenty-five percent (25%) or more percentage of interest in any business entity seeking a County Privilege, including those shareholders, general or limited partners, beneficiaries and principals; except where a business entity is an individual or sole proprietorship, Substantial Owner means that individual or sole proprietor.

All Persons/Substantial Owners are required to complete this affidavit and comply with the Cook County Wage Theft Ordinance before any Contract is awarded. Signature of this form constitutes a certification the information provided below is correct and complete, and that the individual(s) signing this form has/have personal knowledge of such information.

I. Contract Information:

Contract Number: 12-60-350 Amendment No. 2

County Using Agency (requesting Procurement): _____

II. Person/Substantial Owner Information:

Person (Corporate Entity Name): Johnson Controls

Substantial Owner Complete Name: _____

FEIN# 39-038-0010

Date of Birth: _____ E-mail address: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Home Phone: () _____

III. Compliance with Wage Laws:

Within the past five years has the Person/Substantial Owner, in any judicial or administrative proceeding, been convicted of, entered a plea, made an admission of guilt or liability, or had an administrative finding made for committing a repeated or willful violation of any of the following laws:

- No *Illinois Wage Payment and Collection Act, 820 ILCS 115/1 et seq.,*
- No *Illinois Minimum Wage Act, 820 ILCS 105/1 et seq.,*
- No *Illinois Worker Adjustment and Retraining Notification Act, 820 ILCS 65/1 et seq.,*
- No *Employee Classification Act, 820 ILCS 185/1 et seq.,*
- No *Fair Labor Standards Act of 1938, 29 U.S.C. 201, et seq.,*
- No *Any comparable state statute or regulation of any state, which governs the payment of wages*

If the Person/Substantial Owner answered "Yes" to any of the questions above, it is ineligible to enter into a Contract with Cook County, but can request a reduction or waiver under **Section IV**.

IV. Request for Waiver or Reduction

If Person/Substantial Owner answered "Yes" to any of the questions above, it may request a reduction or waiver in accordance with Section 34-179(d), provided that the request for reduction of waiver is made on the basis of one or more of the following actions that have taken place:

- No *There has been a bona fide change in ownership or Control of the ineligible Person or Substantial Owner*
- No *Disciplinary action has been taken against the individual(s) responsible for the acts giving rise to the violation*
- No *Remedial action has been taken to prevent a recurrence of the acts giving rise to the disqualification or default*
- No *Other factors that the Person or Substantial Owner believe are relevant.*

The Person/Substantial Owner must submit documentation to support the basis of its request for a reduction or waiver. The Chief Procurement Officer reserves the right to make additional inquiries and request additional documentation.

V. Affirmation

The Person/Substantial Owner affirms that all statements contained in the Affidavit are true, accurate and complete.

Signature: _____ Date: October 13, 2016

Name of Person signing (Print): Richard W. Smith Title: Branch General Manager

Subscribed and sworn to before me this 13 day of October, 2016

X Matthew R. Trachsel
Notary Public Signature



Note: The above information is subject to verification prior to the award of contract.

SECTION 5

CONTRACT AND EDS EXECUTION PAGE
PLEASE EXECUTE THREE ORIGINAL COPIES

The Applicant hereby certifies and warrants that all of the statements, certifications and representations set forth in this EDS are true, complete and correct; that the Applicant is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Applicant with all the policies and requirements set forth in this EDS; and that all facts and information provided by the Applicant in this EDS are true, complete and correct. The Applicant agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

Execution by Corporation

Johnson Controls

Corporation's Name

414-524-1200

Telephone

BRIAN J. CADWALLADER

Secretary Signature

ALEX MOLINAROLI

President's Printed Name and Signature

see attached Delegation of Authority

Email

October 13, 2016

Date

Execution by LLC

LLC Name

*Member/Manager Printed Name and Signature

Date

Telephone and Email

Execution by Partnership/Joint Venture

Partnership/Joint Venture Name

*Partner/Joint Venturer Printed Name and Signature

Date

Telephone and Email

Execution by Sole Proprietorship

Printed Name and Signature

Date

Telephone

Email

Subscribed and sworn to before me this

13 day of 10, 2016

Michelle R. Trachsel

Notary Public Signature

My commission expires

Notary Seal



DELEGATION OF AUTHORITY

The undersigned, President of Johnson Controls, Inc., a Wisconsin corporation (the "Company"), pursuant to the authority vested in him by a certain resolution adopted by the Board of Directors of the Company on January 23, 1980 hereby authorizes

Richard W. Smith
Branch General Manager

(hereinafter, the "Delegate") to perform, on behalf of the Company, the acts described below:

To execute and deliver any and all contracts for the performance of work, sale of goods, and furnishing of services, and any other instruments in connection therewith and in the ordinary course of business.


This authority does not extend to:

- a. the execution of surety, performance or bid bonds;
- b. the collection, receipt and recovery of monies due or to become due to the Company and the issuance of receipts and releases for the payment thereof;
- c. the signing of any notes, contracts, or any other agreement to borrow money in the name of the Company, or any form of guaranty for the payment or performance of obligations of any subsidiary, affiliate, or joint venture of the Company; or
- d. the signing, on behalf of the Company, of any deeds, abstracts, offers to purchase or any other instruments pertaining to the purchase or sale of real property.


Any actions taken by such Delegate within the scope of acts authorized herein taken between the date of expiration of any prior delegation of authority and the date hereof are hereby ratified, confirmed and approved as the acts and deeds of this Company.

This authority shall remain in full force and effect through June 17, 2017.

Signed at Milwaukee, Wisconsin, this 18th day of June, 2016.


Alex A. Molinaroli, *President*

ATTEST:


Brian J. Cadwallader, *Secretary*

