



**LOCAL GOVERNMENT
ENERGY AUDIT PROGRAM:
ENERGY AUDIT REPORT**

PREPARED FOR:

**COUNTY OF HUDSON
MEADOWVIEW PSYCHIATRIC
HOSPITAL
595 COUNTY AVE., SECAUCUS, NJ**

**ATTN: MR. THOMAS LEANE
DIRECTOR OF PLANNING & ENERGY**

PREPARED BY:

CONCORD ENGINEERING GROUP



**520 S. BURNT MILL ROAD
VOORHEES, NJ 08043
TELEPHONE: (856) 427-0200
FACSIMILE: (856) 427-6529
WWW.CEG-INC.NET**

CEG CONTACT:

**JESSE OHM, PE, LEED AP
EMAIL: JOHM@CEG-INC.NET**

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I. EXECUTIVE SUMMARY

This report presents the findings of the energy audit conducted for:

County of Hudson
Meadowview Complex – Psychiatric Hospital (Bldg 10)

595 County Avenue
Secaucus, NJ, 07094

Municipal Contact Person: Kevin Barry
Facility Contact Person: Michael Lenz

This audit is performed in connection with the New Jersey Clean Energy - Local Government Energy Audit Program. The energy audit is conducted to promote the mission of the office of Clean Energy, which is to use innovation and technology to solve energy and environmental problems in a way that improves the State's economy. This can be achieved through the wiser and more efficient use of energy.

The annual energy costs for the Hudson County Meadowview Campus are as follows:

| | |
|-------------|-------------|
| Electricity | \$690,991 |
| Natural Gas | \$675,114 |
| Total | \$1,366,105 |

The annual energy costs for the Campus are provided in lieu of individual buildings based on the utility bills provided.

The potential annual energy cost savings for each energy conservation measure (ECM) and renewable energy measure (REM) are shown below in Table 1. Be aware that the ECM's and REM's are not additive because of the interrelation of some of the measures. This audit is consistent with an ASHRAE level 2 audit. The cost and savings for each measure is $\pm 20\%$. The evaluations are based on engineering estimations and industry standard calculation methods. More detailed analyses would require engineering simulation models, hard equipment specifications, and contractor bid pricing.

**Table 1
Financial Summary Table**

| ENERGY CONSERVATION MEASURES (ECM's) | | | | | |
|---|--|--|---------------------------------------|-------------------------------------|--------------------------------|
| ECM NO. | DESCRIPTION | NET INSTALLATION COST^A | ANNUAL SAVINGS^B | SIMPLE PAYBACK (Yrs) | SIMPLE LIFETIME ROI |
| ECM #1 | Lighting Equipment Upgrade | \$11,946 | \$4,382 | 2.7 | 817.0% |
| ECM #2 | Lighting Controls Upgrade | \$2,940 | \$230 | 12.8 | 95.9% |
| ECM #3 | AHU Supply & Return VFD Retrofit | \$58,625 | \$25,295 | 2.3 | 547.2% |
| ECM #4 | Kitchen Exhaust Hood Controls | \$46,044 | \$4,855 | 9.5 | 58.2% |
| ECM #5 | Variable Primary Chilled Water Flow | \$51,850 | \$4,172 | 12.4 | 20.7% |
| RENEWABLE ENERGY MEASURES (REM's) | | | | | |
| ECM NO. | DESCRIPTION | NET INSTALLATION COST | ANNUAL SAVINGS | SIMPLE PAYBACK (Yrs) | SIMPLE LIFETIME ROI |
| REM #1 | Solar Photovoltaic System | \$344,080 | \$22,464 | 15.3 | 63.2% |
| Notes: A. Cost takes into consideration applicable NJ Smart Start TM incentives. B. Savings takes into consideration applicable maintenance savings. | | | | | |

The estimated demand and energy savings for each ECM and REM is shown below in Table 2. The descriptions in this table correspond to the ECM's and REM's listed in Table 1.

Table 2
Estimated Energy Savings Summary Table

| ENERGY CONSERVATION MEASURES (ECM's) | | | | |
|---|-------------------------------------|---------------------------------|-----------------------------------|-----------------------------|
| ECM NO. | DESCRIPTION | ANNUAL UTILITY REDUCTION | | |
| | | ELECTRIC DEMAND (KW) | ELECTRIC CONSUMPTION (KWH) | NATURAL GAS (THERMS) |
| ECM #1 | Lighting Equipment Upgrade | 8.1 | 41,106 | 0 |
| ECM #2 | Lighting Controls Upgrade | 0 | 2,259 | 0 |
| ECM #3 | AHU Supply & Return VFD Retrofit | 0 | 247,986 | 0 |
| ECM #4 | Kitchen Exhaust Hood Controls | 0 | 27,934 | 2786 |
| ECM #5 | Variable Primary Chilled Water Flow | 0 | 40,900 | 0 |
| RENEWABLE ENERGY MEASURES (REM's) | | | | |
| ECM NO. | DESCRIPTION | ANNUAL UTILITY REDUCTION | | |
| | | ELECTRIC DEMAND (KW) | ELECTRIC CONSUMPTION (KWH) | NATURAL GAS (THERMS) |
| REM #1 | Solar Photovoltaic System | 34.8 | 49,700 | 0 |

Concord Engineering Group (CEG) recommends proceeding with the implementation of all ECM's that provide a calculated simple payback at or under ten (10) years. The following Energy Conservation Measures are recommended for the facility:

- **ECM #1:** Lighting Equipment Upgrade
- **ECM #3:** AHU Supply and Return VFD Retrofit
- **ECM #4:** Kitchen Exhaust Hood Controls

Although ECM # 2 and ECM #5 do not provide a payback less than 10 years, it is recommended to consider the benefits of the conservation measures since the paybacks are close to 10 years and provide valuable energy savings in addition to the recommended ECMs.

ECM # 1 – Lighting Equipment Upgrade

This ECM includes retrofit of all T-12 magnetic ballast fixtures with new energy efficiency T-8 bulbs and electronic ballasts. The majority of the building already utilizes T-8 fixtures however the retrofit of all remaining T-12 fixtures represents as simple and effective approach to reducing energy use. This ECM also benefits from the replacement of all fluorescent exit signs with LED exit signs as well as a few remaining incandescent bulbs with compact fluorescent bulbs. The total savings from this ECM is estimated to be \$4,382, which pays for the installation cost in only 2.7 years. This ECM has one of the quickest paybacks and is highly recommended for the facility.

ECM #3 – AHU Supply & Return VFD Retrofit

This ECM includes retrofitting the existing air handling units with variable frequency drives (VFDs). Installation of VFDs for the building's air handling units will allow the system to efficiently modulate with building loads. Currently the system simply dampens the supply and return air to modulate with load without any reduction in fan speed. The energy savings resulting from slower fan speeds and reduced motor horse power are complemented due to the system's operation 24 hours per day year round. Due to the substantial operating time, the energy savings from this ECM pays for the installation in approximately 2.3 years. The annual savings is approximately \$25,000 making this ECM the highest cost reduction and quickest payback of all ECMs evaluated.

ECM #4 – Kitchen Exhaust Hood Controls

This ECM includes the installation of sensors on the kitchen exhaust hoods as well as variable frequency drives on the make-up and exhaust fans. This ECM allows for the kitchen exhaust and make-up air system to change exhaust air quantities based on the variations in operating conditions of the kitchen equipment. This allows for a savings in fan horse power as well as make up air conditioning energy. The energy savings from this ECM is approximately \$25,000 annually which pays for the installation cost in 9.5 years. This ECM has a longer payback but provides valuable energy savings for the facility.

Operations and Maintenance Considerations

As with the majority of existing facilities, there are maintenance and operational measures that can provide significant energy savings and provide immediate benefit. The ECMs listed above represent investments that can be made to the facility which are justified by the savings seen overtime. However, the maintenance items and small operational improvements below are typically achievable with on site staff or maintenance contractors and in turn have the potential to provide substantial operational savings compared to the costs associated. The following are recommendations which should be considered a priority in achieving an energy efficient building:

1. Maintain all weather stripping on entrance doors.
2. Maintain insulation on the hot and chilled water pipes.
3. Clean all light fixtures to maximize light output. Although not an energy saving technique, this maintenance effort will provide better light quality and limit additional light from being added where it is not needed.
4. Provide more frequent air filter changes to decrease overall system power usage and maintain better IAQ.
5. Confirm that outside air economizers on the air handling units are functioning properly to take advantage of free cooling and avoid excess outside air during occupied periods.
6. Eliminate over ventilation where 100% outside air is not required. The historical use of the facility has changed over the years and with it changes the ventilation rate requirements. A major portion of the building utilized 100% outside air that may not still require it since the operation of the conditioned space has changed from operating rooms to in-patient space. Hudson County should have these spaces evaluated.
7. Implement a steam trap maintenance program. When steam traps fail, they will release steam which can accumulate to huge volumes of steam contributing to increase boiler plant flue costs. Steam traps should be inspected to ensure proper operation, or monitored with temperature sensors to alarm when steam is passing.

Solar Analysis

Renewable Energy Measures (REMs) through the installation of a solar PV system was also reviewed for the Meadowview Complex. Based on the limited (South facing) roof space available throughout the campus's buildings, a solar PV system mounted as shading over the parking lot was analyzed for the campus. The system proposed as REM #1 shows a typical installation, which could be expanded based on the County's ambition for investing in renewable energy. Savings are available for a system installed at grade versus a roof mounted system for easy access and ease of construction. If this measure is considered for implementation, it is highly recommended to combine this project with a reconstruction of the degraded parking lot behind the Psychiatric Hospital. The recommended 43.01 kW PV system will produce approximately 49,700 kWh of electricity annually. The system's calculated simple payback is 15.32 years is past the standard 10 year simple payback threshold; however, with alternative funding this payback could be lessened. CEG recommends the Owner review all funding options available when considering their financial analysis.

Retro-Commissioning

In addition to the above recommendations, based on the review of the facility's energy bills and discussions with the operations personnel, the energy audit team recommends Retro-Commissioning of this facility to meet the following objectives:

- Bring existing HVAC equipment to its proper operational state including air and water distribution systems
- Reduce energy use and energy costs
- Improve indoor air quality
- Verify the installation and performance of identified system upgrades
- Address overall building energy use and demand and identify areas of highest energy use and demand
- Identify the location of the most comfort problems or trouble spots in the building
- Review current O&M practices

Conclusion

Overall, the Psychiatric Hospital appears to be in a good position for energy improvement options. With the implementation of the above recommended measures the County will see beneficial energy savings that will provide significant life cycle cost reductions in a very short time period.

II. INTRODUCTION

The comprehensive energy audit covers the 63,000 square foot of the Hudson County Meadowview Psychiatric Hospital, which includes patient rooms, day rooms, therapy rooms, kitchen and dining rooms, laundry rooms, office spaces, library, storage spaces and mechanical spaces.

Electrical and natural gas utility information is collected and analyzed for one full year's energy use of the building. The utility information allows for analysis of the building's operational characteristics; calculate energy benchmarks for comparison to industry averages, estimated savings potential, and baseline usage/cost to monitor the effectiveness of implemented measures. A computer spreadsheet is used to calculate benchmarks and to graph utility information (see the utility profiles below).

The Energy Use Index (EUI) is established for the building. Energy Use Index (EUI) is expressed in British Thermal Units/square foot/year (BTU/ft²/yr), which is used to compare energy consumption to similar building types or to track consumption from year to year in the same building. The EUI is calculated by converting the annual consumption of all energy sources to BTU's and dividing by the area (gross square footage) of the building. Blueprints (where available) are utilized to verify the gross area of the facility. The EUI is a good indicator of the relative potential for energy savings. A low EUI indicates less potential for energy savings, while a high EUI indicates poor building performance therefore a high potential for energy savings.

Existing building architectural and engineering drawings (where available) are utilized for additional background information. The building envelope, lighting systems, HVAC equipment, and controls information gathered from building drawings allow for a more accurate and detailed review of the building. The information is compared to the energy usage profiles developed from utility data. Through the review of the architectural and engineering drawings a building profile can be defined that documents building age, type, usage, major energy consuming equipment or systems, etc.

The preliminary audit information is gathered in preparation for the site survey. The site survey provides critical information in deciphering where energy is spent and opportunities exist within a facility. The entire site is surveyed to inventory the following to gain an understanding of how each facility operates:

- Building envelope (roof, windows, etc.)
- Heating, ventilation, and air conditioning equipment (HVAC)
- Lighting systems and controls
- Facility-specific equipment

The building site visit is performed to survey all major building components and systems. The site visit includes detailed inspection of energy consuming components. Summary of building occupancy schedules, operating and maintenance practices, and energy management programs

provided by the building manager are collected along with the system and components to determine a more accurate impact on energy consumption.

III. METHOD OF ANALYSIS

Post site visit work includes evaluation of the information gathered, researching possible conservation opportunities, organizing the audit into a comprehensive report, and making recommendations on HVAC, lighting and building envelope improvements. Data collected is processed using energy engineering calculations to anticipate energy usage for each of the proposed energy conservation measures (ECMs). The actual building's energy usage is entered directly from the utility bills provided by the owner. The anticipated energy usage is compared to the historical data to determine energy savings for the proposed ECMs.

It is pertinent to note, that the savings noted in this report are not additive. The savings for each recommendation is calculated as standalone energy conservation measures. Implementation of more than one ECM may in some cases affect the savings of each ECM. The savings may in some cases be relatively higher if an individual ECM is implemented in lieu of multiple recommended ECMs. For example implementing reduced operating schedules for inefficient lighting will result in a greater relative savings. Implementing reduced operating schedules for newly installed efficient lighting will result in a lower relative savings, because there is less energy to be saved. If multiple ECM's are recommended to be implemented, the combined savings is calculated and identified appropriately.

ECMs are determined by identifying the building's unique properties and deciphering the most beneficial energy saving measures available that meet the specific needs of the facility. The building construction type, function, operational schedule, existing conditions, and foreseen future plans are critical in the evaluation and final recommendations. Energy savings are calculated base on industry standard methods and engineering estimations. Energy consumption is calculated based on manufacturer's cataloged information when new equipment is proposed.

Cost savings are calculated based on the actual historical energy costs for the facility. Installation costs include labor and equipment costs to estimate the full up-front investment required to implement a change. Costs are derived from Means Cost Data, industry publications, and local contractors and equipment suppliers. The NJ Smart Start Building® program incentives savings (where applicable) are included for the appropriate ECM's and subtracted from the installed cost. Maintenance savings are calculated where applicable and added to the energy savings for each ECM. The life-time for each ECM is estimated based on the typical life of the equipment being replaced or altered. The costs and savings are applied and a simple payback, simple lifetime savings, and simple return on investment are calculated. See below for calculation methods:

ECM Calculation Equations:

$$\text{Simple Payback} = \left(\frac{\text{Net Cost}}{\text{Yearly Savings}} \right)$$

$$\text{Simple Lifetime Savings} = (\text{Yearly Savings} \times \text{ECM Lifetime})$$

$$\text{Simple Lifetime ROI} = \frac{(\text{Simple Lifetime Savings} - \text{Net Cost})}{\text{Net Cost}}$$

$$\text{Lifetime Maintenance Savings} = (\text{Yearly Maintenance Savings} \times \text{ECM Lifetime})$$

$$\text{Internal Rate of Return} = \sum_{n=0}^N \left(\frac{\text{Cash Flow of Period}}{(1 + \text{IRR})^n} \right)$$

$$\text{Net Present Value} = \sum_{n=0}^N \left(\frac{\text{Cash Flow of Period}}{(1 + \text{DR})^n} \right)$$

Net Present Value calculations based on Interest Rate of 3%.

IV. HISTORIC ENERGY CONSUMPTION/COST

A. Energy Usage / Tariffs

The energy usage for the facility has been tabulated and plotted in graph form as depicted within this section. Each energy source has been identified and monthly consumption and cost noted per the information provided by the Owner.

The electric usage profile represents the actual electrical usage for the facility. Public Service Electric and Gas (PSE&G) provides electricity to the facility under their LPLS and LPLP rate structures. The electric utility measures consumption in kilowatt-hours (KWH) and maximum demand in kilowatts (KW). One KWH usage is equivalent to 1000 watts running for one hour. One KW of electric demand is equivalent to 1000 watts running at any given time. The basic usage charges are shown as generation service and delivery charges along with several non-utility generation charges. Rates used in this report reflect the historical data received for the facility.

The gas usage profile shows the total actual natural gas energy usage for the facility. Public Service Electric and Gas (PSE&G) provides natural gas to three (3) delivery points in this facility under the TSGNF and GSG rate structures. The gas utility measures consumption in cubic feet x 100 (CCF), and converts the quantity into Therms of energy. One Therm is equivalent to 100,000 BTUs of energy.

The third party commodity provider HESS Energy Service Company is responsible for the supply of electricity to the Hospital, Power House, Juvenile Center and the Buildings 1 to 3. Commodity (Supply) and delivery is billed separately for the service. There is no third party supplier for the electric service to the buildings 4-9 and also for the entire gas utility.

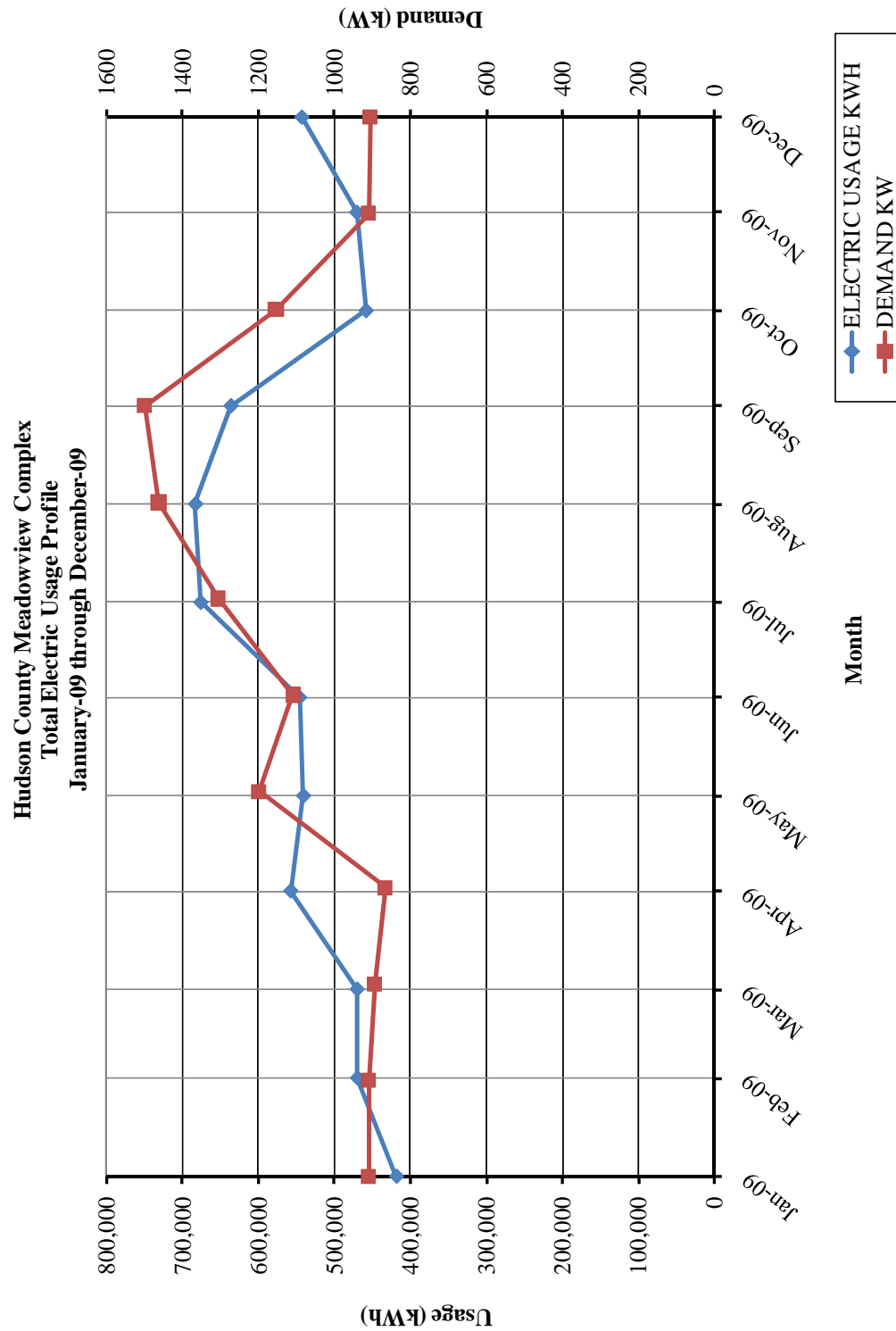
The overall cost for utilities is calculated by dividing the total cost by the total usage. Based on the utility history provided, the average cost for utilities for the campus is as follows:

| <u>Description</u> | <u>Average</u> |
|--------------------|----------------|
| Electricity | 10.7¢ / kWh |
| Natural Gas | \$0.72 / Therm |

**Table 3
Electricity Billing Data**

| ELECTRIC USAGE SUMMARY | | | |
|--|----------------------------|------------------------|-------------------|
| Utility Provider: PSE&G | | | |
| Rate: LPLS, LPLP | | | |
| Meter No: 778009754, 778000991 | | | |
| Customer ID No: 42 005 270 06, 42 000 410 06 | | | |
| Third Party Utility HESS | | | |
| TPS Meter / Acct No: - | | | |
| MONTH OF USE | CONSUMPTION KWH | DEMAND | TOTAL BILL |
| Jan-09 | 417,913 | 910 | \$51,689 |
| Feb-09 | 469,519 | 909 | \$50,414 |
| Mar-09 | 470,033 | 894 | \$45,657 |
| Apr-09 | 557,483 | 866 | \$53,420 |
| May-09 | 540,674 | 1199 | \$49,635 |
| Jun-09 | 545,921 | 1109 | \$61,460 |
| Jul-09 | 676,135 | 1306 | \$75,815 |
| Aug-09 | 683,033 | 1462 | \$81,500 |
| Sep-09 | 636,318 | 1500 | \$74,798 |
| Oct-09 | 458,147 | 1154 | \$45,255 |
| Nov-09 | 470,521 | 911 | \$47,289 |
| Dec-09 | 542,851 | 906 | \$54,059 |
| Totals | 6,468,548 | 1500 Max | \$690,991 |
| AVERAGE DEMAND | | 1094 KW average | |
| AVERAGE RATE | | \$0.107 \$/kWh | |

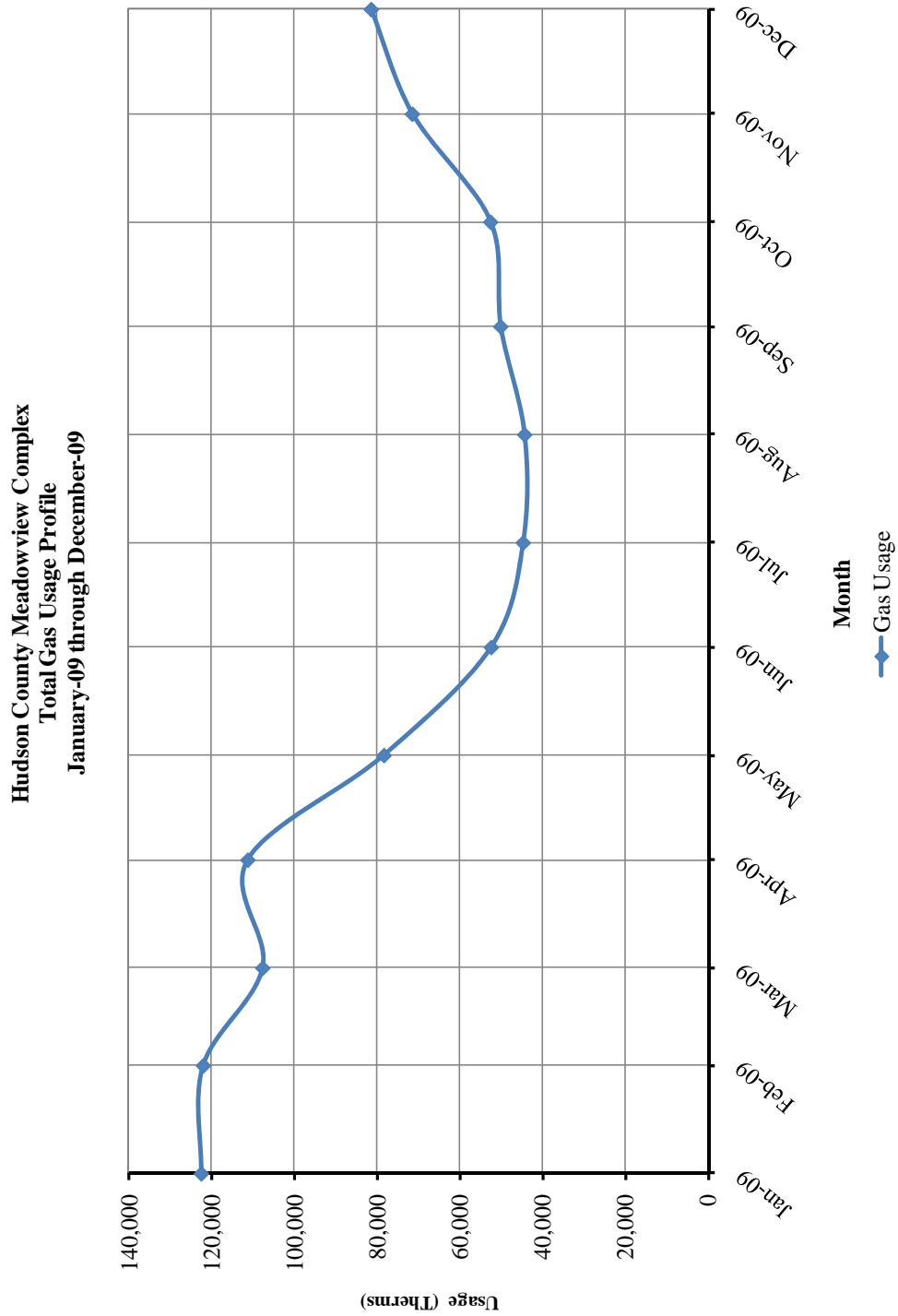
Figure 1
Electricity Usage Profile



**Table 4
Natural Gas Billing Data**

| NATURAL GAS USAGE SUMMARY | | |
|--|----------------------|---------------------|
| Utility Provider: PSE&G Rate: TSGNF, GSG Meter No: 1784801, 2369009, 2858907, 3007747 Point of Delivery ID: PG000011545808543339, PG000011223037043339, PG000011223036243339 Third Party Utility Provider: - TPS Meter No: - | | |
| MONTH OF USE | CONSUMPTION (THERMS) | TOTAL BILL |
| Jan-09 | 122,573 | \$128,718 |
| Feb-09 | 122,095 | \$117,923 |
| Mar-09 | 107,714 | \$77,430 |
| Apr-09 | 111,312 | \$14,899 |
| May-09 | 78,362 | \$52,911 |
| Jun-09 | 52,403 | \$33,832 |
| Jul-09 | 44,680 | \$29,540 |
| Aug-09 | 44,326 | \$31,337 |
| Sep-09 | 50,127 | \$32,454 |
| Oct-09 | 52,558 | \$30,830 |
| Nov-09 | 71,497 | \$49,301 |
| Dec-09 | 81,464 | \$75,939 |
| TOTALS | 939,111.26 | \$675,113.89 |
| AVERAGE RATE: | \$0.72 | \$/THERM |

Figure 2
Natural Gas Usage Profile



Energy Use Index (EUI)

Energy Use Index (EUI) is a measure of a building's annual energy utilization per square foot of building. This calculation is completed by converting all utility usage consumed by a building for one year, to British Thermal Units (BTU) and dividing this number by the building square footage. EUI is a good measure of a building's energy use and is utilized regularly for comparison of energy performance for similar building types. The Oak Ridge National Laboratory (ORNL) Buildings Technology Center under a contract with the U.S. Department of Energy maintains a Benchmarking Building Energy Performance Program. The ORNL website determines how a building's energy use compares with similar facilities throughout the U.S. and in a specific region or state.

Source use differs from site usage when comparing a building's energy consumption with the national average. Site energy use is the energy consumed by the building at the building site only. Source energy use includes the site energy use as well as all of the losses to create and distribute the energy to the building. Source energy represents the total amount of raw fuel that is required to operate the building. It incorporates all transmission, delivery, and production losses, which allows for a complete assessment of energy efficiency in a building. The type of utility purchased has a substantial impact on the source energy use of a building. The EPA has determined that source energy is the most comparable unit for evaluation purposes and overall global impact. Both the site and source EUI ratings for the building are provided to understand and compare the differences in energy use.

The site and source EUI for this facility is calculated as follows:

$$\text{Building Site EUI} = \frac{(\text{Electric Usage in kBtu} + \text{Gas Usage in kBtu})}{\text{Building Square Footage}}$$

$$\text{Building Source EUI} = \frac{(\text{Electric Usage in kBtu} \times \text{SS Ratio} + \text{Gas Usage in kBtu} \times \text{SS Ratio})}{\text{Building Square Footage}}$$

An energy use intensity index cannot be calculated for the Meadowview Campus or any of the individual buildings. This is because the campus power house provides steam and domestic hot water to the entire Meadowview Complex including buildings that are not analyzed in this report. In addition, the electric service to the campus is not sub-metered for each building. In order to obtain an energy use index for the campus, the utility information and the area of each building in the entire campus is required.

**Table 5
Facility Energy Use Index (EUI) Calculation**

| ENERGY USE INTENSITY CALCULATION | | | | | | |
|---|---------------------|---------------|--------------------|--------------------|--------------------------|----------------------|
| ENERGY TYPE | BUILDING USE | | | SITE ENERGY | SITE-SOURCE RATIO | SOURCE ENERGY |
| | kWh | Therms | Gallons | kBtu | | kBtu |
| ELECTRIC | 6,468,548 | | | 22,083,624 | 3.340 | 73,759,304 |
| NATURAL GAS | | 939,111 | | 93,911,126 | 1.047 | 98,324,949 |
| FUEL OIL | | | 0.0 | 0 | 1.010 | 0 |
| PROPANE | | | 0.0 | 0 | 1.010 | 0 |
| TOTAL | | | | 115,994,751 | | 172,084,254 |
| *Site - Source Ratio data is provided by the Energy Star Performance Rating Methodology for Incorporating Source Energy Use document issued Dec 2007. | | | | | | |
| TOTAL BUILDING AREA | <i>N/A</i> | | SQUARE FEET | | | |
| BUILDING SITE EUI | <i>N/A</i> | | kBtu/SF/YR | | | |
| BUILDING SOURCE EUI | <i>N/A</i> | | kBtu/SF/YR | | | |

As a comparison, data has been gathered by the US Department of Energy (DOE) for various facilities cataloguing the standard site and source energy utilization. This data has been published in the 2003 Commercial Building Energy Consumption Survey and is noted as follows for facilities of this type:

- Health Care: Long Term Care (Nursing Home, Assisted Living):
124 kBtu/SF Site Energy, 255 kBtu/SF Source Energy.

A comparison to the national average is not available for this facility since individual energy utility information for this facility cannot be obtained.

B. EPA Energy Benchmarking System

The United States Environmental Protection Agency (EPA) in an effort to promote energy management has created a system for benchmarking energy use amongst various end users. The benchmarking tool utilized for this analysis is entitled Portfolio Manager. The Portfolio Manager tool allows tracking and assessment of energy consumption via the template forms located on the ENERGY STAR website (www.energystar.gov). The importance of benchmarking for local government municipalities is becoming more important as utility costs continue to increase and emphasis is being placed on carbon reduction, greenhouse gas emissions and other environmental impacts.

Based on information gathered from the ENERGY STAR website, Government agencies spend more than \$10 billion a year on energy to provide public services and meet constituent needs. Furthermore, energy use in commercial buildings and industrial facilities is responsible for more than 50 percent of U.S. carbon dioxide emissions. It is vital that local government municipalities assess facility energy usage, benchmark energy usage utilizing Portfolio Manager, set priorities and goals to lessen energy usage and move forward with priorities and goals.

In accordance with the Local Government Energy Audit Program, CEG has created an ENERGY STAR account for the municipality to access and monitoring the facility's yearly energy usage as it compares to facilities of similar type. The login page for the account can be accessed at the following web address; the username and password are also listed below:

<https://www.energystar.gov/istar/pmpam/index.cfm?fuseaction=login.login>

User Name: hudsoncounty
 Password: lgeaceg2009
 Security Question: What city were you born in?
 Security Answer: "hudson county"

The utility bills and other information gathered during the energy audit process are entered into the Portfolio Manager. The following is a summary of the results for the facility:

Table 6
ENERGY STAR Performance Rating

| ENERGY STAR PERFORMANCE RATING | | |
|---------------------------------------|----------------------------------|-------------------------|
| FACILITY DESCRIPTION | ENERGY PERFORMANCE RATING | NATIONAL AVERAGE |
| Meadowview Campus | N/A | N/A |

An Energy Performance Rating cannot be established for the Campus or individual buildings. The Energy Star program does not have enough bin data available to calculate a campus wide

Energy Performance Rating at this time. Also, individual building ratings cannot be established due to the design of the Campus wide electric and gas distribution system. One year of utility data must be entered for each building or facility, since reliable building energy meters do not exist, this approach cannot be taken.

V. FACILITY DESCRIPTION

The 63,775 SF Psychiatric Hospital was built in 1958. This facility is a 4 story building with a 5th floor mechanical penthouse. The facility is comprised of patient rooms, office spaces, kitchen and dining room, storage spaces and mechanical rooms. The facility operates 24 hours per day, 7 days per week. The building construction consists of CMU block walls with a variety of façade types including brick, stucco, and concrete. The amount of insulation within the wall structure is unknown. The roof structure is made up of a rubber roof membrane with rigid insulation below the membrane. The roof appears to be in good condition with adequate insulation below the membrane.

The windows throughout the facility except for the north-west wing are renovated recently in 2007. Typical windows throughout the facility are double pane, ¼” clear glass with aluminum frames. The windows in the north-west are older and in poor condition. These windows have metal frames with single pane clear glass.

HVAC Systems

The majority of the building is heated and cooled by a central air handling unit AHU-1. The main air handling unit is located on the 5th floor mechanical room. This unit is a dual duct system comprised of a hot and cold deck with downstream VAV boxes to control the mixing of hot and cold air. The central AHU utilizes steam pre-heat and re-heat coils to pre-heat the supply air to approximately 65°F in the winter. The hot deck is heated with a downstream steam coil which heats the supply air to approximately 100°F. The cold deck utilizes a chilled water cooling coil, which cools the supply air to approximately 55°F. The AHU utilizes a large centrifugal supply fan with remote return / exhaust fan. Both fans are constant volume controlled by downstream dampers. Air is returned to the unit through a large mixing box for outside air and return air with economizer capability. The main AHU and associated ductwork is in poor condition. The supply ductwork is suffering considerable leakage at joints and coil connections. The main supply air control damper is disconnected and appears to be abandoned. The steam piping throughout the mechanical room is without insulation for approximately 50 - 57% of the piping. This unit operates 24/7.

The remaining AHUs (AHU-2 & AHU-3) are located on the 1st floor mechanical room and provide heating and cooling to the facilities support spaces. AHU-2 is a 100% outside air unit which was dedicated for the operating rooms that no longer exist in the building. This unit utilizes steam heating coils to provide air to downstream VAV boxes. The supply fan for AHU-1 is a constant volume fan. AHU-3 is a standard outside air / return air system that services the kitchen, maintenance area, and storage rooms. AHU-2 & AHU-3 are single duct systems with downstream VAV boxes. AHU-3 utilizes additional reheat coils and cooling coils to provide zone control in addition to downstream VAV boxes for the kitchen and storage rooms. AHU-3 utilizes a manual bypass duct and hand damper to control the supply air volume. AHU-2 and AHU-3 is in fair condition and appear to be operating correctly. These units operate 24/7.

Heat is provided by a campus steam loop that enters the building on the southwest corner basement mechanical room. The steam is distributed throughout the building at 50-75 PSI to steam coils and two large domestic hot water heaters. Steam condensate is collected and pumped

back to the campus boiler plant via steam driven condensate pumps (pressure pumps). The condensate receiver tank is vented through the roof. Considerable steam was noted as being vented through the roof through the condensate receiver vent. The steam distribution system appears to be original to the building.

The north-west wing of the building heating is supplied with electric baseboard heaters. The electric baseboard heaters are controlled with non-programmable thermostats located on an adjacent wall of each baseboard strip.

Exhaust System

Exhaust throughout the facility is provided through a centralized ductwork system and large centrifugal exhaust fans. The original kitchen hood exhaust fan has been abandoned and a new exhaust fan installed on a platform out the side wall next to the kitchen on the 2nd floor. The central exhaust fans operate continuously. The kitchen is equipped with two exhaust hoods for the cooking ranges. The size of each range hood is 5'x16'. The kitchen exhaust fan is controlled manually by a switch on the kitchen hoods.

HVAC System Controls

The HVAC system utilizes a central control system that monitors and controls the majority of the HVAC equipment. The system is based on the Carrier Comfort System installed 3 to 4 years ago. This system controls all VAV boxes and AHUs. The control system includes monitoring and adjustment capability for temperature control for each zone. The system also includes linking to the campus control system located in the central heating plant. The campus control system has the capability for overriding control of all equipment in the psychiatric building.

The controls throughout the facility are primarily pneumatic controls for all major equipment points. Electronic controls have been Individual equipment controls include steam control valves, VAV box dampers, and AHU supply, return and outside air dampers. These controls are in poor condition in many cases. The main AHU-1 was noted to have outside air dampers open 100% and return dampers shut. This indicates a issue with the damper actuators, pneumatic system, or central front end system.

Domestic Hot Water

Domestic hot water for the kitchen and restrooms is provided by two large indirect hot water heaters (approximately 2500 gallons each). These hot water heaters provide hot water at 110°F. The kitchen utilizes booster heaters for kitchen hot water needs. The domestic hot water is circulated through the building by a small domestic hot water pump that runs 24/7.

Lighting

Lighting throughout building is primarily fluorescent tube lay-in fixtures. There is a combination of T-8 lamps with electronic ballasts and T-12 lamps with magnetic ballasts. Kitchen, dining room and control room are lit with older fixtures with T12 lamps. The exit signs in the building are a lit with a combination of LED lights and compact fluorescent lights. Majority of the interior

lighting is manually switched. The office areas and non patient areas are unoccupied at night and typically lighting is turned off during unoccupied periods. Patient rooms are equipped with compact fluorescent night lights. Outside lighting is provided with high pressure sodium fixtures.

VI. MAJOR EQUIPMENT LIST

The equipment list contains major energy consuming equipment that through implementation of energy conservation measures could yield substantial energy savings. The list shows the major equipment in the facility and all pertinent information utilized in energy savings calculations. An approximate age was assigned to the equipment in some cases if a manufactures date was not shown on the equipment's nameplate. The ASHRAE service life for the equipment along with the remaining useful life is also shown in the Appendix.

Refer to the **Major Equipment List Appendix** for this facility.

VII. ENERGY CONSERVATION MEASURES

ECM #1: Lighting Upgrade

Description:

The majority of the office spaces, patient rooms and corridors in the Psychiatric Hospital building are lit with modern fixtures with T8 lamps and electronic ballasts. The kitchen and the dining areas and the Control building lighting is provided with older fixtures with T12 lamps and magnetic ballasts. It is recommended to replace all of the T12 fixtures in these areas with higher efficiency fluorescent T8 fixtures with electronic ballasts. The new, energy efficient T8 fixtures will provide adequate lighting and will save on electrical costs due to better performance of the lamp and ballasts. This ECM also includes maintenance savings through the reduced number of lamps replaced per year. The expected lamp life of a T8 lamp is approximately 30,000 burn-hours, in comparison to the existing T12 lamps which is approximately 20,000 burn-hours. The facility will need approximately 33% less lamps replaced per year for each one for one fixture replaced.

In addition, there are some exit signs with fluorescent bulbs throughout the hospital building. It is recommended to replace all of the fluorescent exit signs with high efficiency LED signs. LED is an acronym for light-emitting-diode. LED's are small light sources that are readily associated with electronic equipment. LED exit signs have been manufactured in a variety of shapes and sizes. The benefits of LED technology are substantial. LED exit signs will last for 20-30 years without maintenance. This results in tremendous maintenance savings considering that the fluorescent lamps in the existing fixtures need to be replaced at a rate of once in 3-4 years. Lamp costs (\$2-\$7 each) and labor costs (\$8-\$20 per lamp) add up rapidly. Additionally, a LED exit sign total fixture input can be as low as 2 Watts.

This ECM includes replacement or retrofit of all T12 fixtures with T8 fixtures with electronic ballasts in the main hospital building and control room. In addition, this ECM will replace all of the existing exit signs with new LED exit fixtures. The basis of design is the Progress Lighting PE001 LED Exit Sign or equal. The included battery provides 1-1/2 hours of emergency power.

Energy Savings Calculations:

The **Investment Grade Lighting Audit Appendix** outlines the hours of operation, proposed retrofits, costs, savings, and payback periods for each set of fixtures in the each building.

There are incentives available from NJ Smart Start[®] Program for these retrofits. Incentives are calculated as follows:

From the Smart Start Incentive appendix, the replacement of a T-12 fixture to a T-5 or T-8 fixture warrants the following incentive: T-5 or T-8 (1-4 lamp) is \$15 per fixture. The replacement of an incandescent exit sign with a new LED exit sign is \$10 per fixture.

SmartStart[®] Incentives

$$= (\# \text{ of } 1-4 \text{ lamp fixtures} \times \$15) + (\# \text{ of LED Exist signs} \times \$10)$$

Total number of 1-4 lamp T12 fixtures: 98

Total number of fluorescent LED signs: 18

Total Smart Start incentives = \$1,650

Replacement and Maintenance Savings are calculated as follows:

$$\text{Savings} = (\text{reduction in lamps replaced per year}) \times (\text{replacement } \$ \text{ per lamp} + \text{Labor } \$ \text{ per lamp})$$

Considering that the typical T12 lamp life is 20,000 Hours while that of T8 is 30,000:

Reduction in lamp replacement due to T12 to T8 conversion: 27

Cost of a lamp replacement including labor for all types: \$7

Maintenance savings = \$7 x 27 = \$189

There isn't any significant maintenance savings by switching to LED exit signs from fluorescent exit signs.

Total maintenance savings = \$189

Energy Savings Summary:

| ECM #1 - ENERGY SAVINGS SUMMARY | |
|---|-------------|
| Installation Cost (\$): | \$13,596 |
| NJ Smart Start Equipment Incentive (\$): | \$1,650 |
| Net Installation Cost (\$): | \$11,946 |
| Maintenance Savings (\$/Yr): | \$189 |
| Energy Savings (\$/Yr): | \$4,193 |
| Total Yearly Savings (\$/Yr): | \$4,382 |
| Estimated ECM Lifetime (Yr): | 25 |
| Simple Payback | 2.7 |
| Simple Lifetime ROI | 817.0% |
| Simple Lifetime Maintenance Savings | \$4,727 |
| Simple Lifetime Savings | \$109,548 |
| Internal Rate of Return (IRR) | 37% |
| Net Present Value (NPV) | \$64,357.31 |

ECM #2: Lighting Controls Upgrade

Description:

In some areas the lighting is left ON unnecessarily. In many cases the lights are left ON because of the inconvenience to manually switch lights off when a room is left ON or when a room is first occupied. This is common in rooms that are occupied for only short periods and only a few times per day. In some instances lights are left ON due to the misconception that it is better to keep the lights ON rather than to continuously switch lights ON and OFF. Although increased switching reduces lamp life, the energy savings outweigh the lamp replacement costs. The payback timeframe for when to turn the lights off is approximately two minutes. If the lights are expected to be off for at least a two minute interval, then it pays to shut them OFF.

Lighting controls come in many forms. Sometimes an additional switch is adequate to provide reduced lighting levels when full light output is not needed. Occupancy sensors detect motion and will switch the lights ON when the room is occupied. Occupancy sensors can either be mounted in place of a current wall switch, or on the ceiling to cover large areas. Photocell control senses light levels and turn off or reduce lights when there is adequate daylight. Photocells are mostly used outside, but are becoming more popular in energy-efficient interior lighting designs as well.

The U.S. Department of Energy sponsored a study to analyze energy savings achieved through various types of building system controls. The referenced savings is based on the “Advanced Sensors and Controls for Building Applications: Market Assessment and Potential R&D Pathways,” document posted for public use April 2005. The study has found that commercial buildings have the potential to achieve significant energy savings through the use of building controls. The average energy savings are as follows based on the report:

- Occupancy Sensors for Lighting Control - 20%.

Energy savings achieved for “Occupancy Sensors for Lighting Control” average 20%. Savings resulting from the implementation of this ECM for energy management controls are estimated to be 10% of the total light energy controlled by occupancy sensors. The estimated savings is below the average listed above due to the continuous occupancy nature of healthcare facilities. The majority of the savings is expected to be in the after hours when rooms are left with lights ON.

The ECM includes installation of ceiling mounted occupancy sensors or replacement of standard wall switches with sensors wall switches for individual all offices, class rooms, and bathrooms. Sensors shall be manufactured by Sensorswitch, Watt Stopper or equivalent. See the “Investment Grade Lighting Audit” appendix for details.

The **Investment Grade Lighting Audit Appendix** of this report includes the summary of lighting controls implemented in this ECM and outlines the estimated hours of operation, proposed controls, costs, savings, and payback periods. The calculations adjust the lighting power usage by 10% for all areas that include occupancy sensors.

Energy Savings Calculations:

$$\text{Energy Savings} = (10\% \times \text{Occupancy Sensored Light Energy (kWh/Yr)})$$

$$\text{Savings} = \text{Energy Savings (kWh)} \times \text{Ave Elec Cost} \left(\frac{\$}{\text{kWh}} \right)$$

Installation cost per dual-technology sensor (Basis: Sensor switch or equivalent) is \$160/unit including material and labor.

From the NJ Smart Start appendix, the installation of a lighting control device warrants the following incentive: occupancy = \$20 per fixture.

Energy Savings Summary:

| ECM #2 - ENERGY SAVINGS SUMMARY | |
|---|------------|
| Installation Cost (\$): | \$3,360 |
| NJ Smart Start Equipment Incentive (\$): | \$420 |
| Net Installation Cost (\$): | \$2,940 |
| Maintenance Savings (\$/Yr): | \$0 |
| Energy Savings (\$/Yr): | \$230 |
| Total Yearly Savings (\$/Yr): | \$230 |
| Estimated ECM Lifetime (Yr): | 25 |
| Simple Payback | 12.8 |
| Simple Lifetime ROI | 95.9% |
| Simple Lifetime Maintenance Savings | \$0 |
| Simple Lifetime Savings | \$5,760 |
| Internal Rate of Return (IRR) | 6% |
| Net Present Value (NPV) | \$1,071.82 |

ECM #3: AHU Supply and Return Fan VFD Retrofit

Description:

Two of the Air Handling Units (AHUs) in the Hospital building are variable volume units and they can be retrofitted with Variable Frequency Drives. AHU #1 is a dual duct system serving majority of the hospital. The unit provides hot and cold air to the mixing boxes in the spaces via a 125 HP supply air fan. The supply air volume to the hot and cold decks is varied based on the static pressure of each duct. A 40 HP return fan brings the return air to the unit through a large mixing box for outside air with economizer capability. The mixing box adjusts the static pressure by relieving return air into the atmosphere. AHU #3 is a unit feeding the kitchen area with a 10HP supply fan. AHU-3 utilizes a manual bypass duct and hand damper to control the supply air volume. An automatic damper controls and a Variable Frequency Drive (VFD) can be retrofitted for this unit in order to modulate supply air volume based on static air pressure.

This ECM includes the installation of new VFDs for the AHU #1 supply and return fans and the AHU #3 supply fan. VFD's will modulate fan speed based on supply air static pressure via central energy management system.

Energy and cost savings calculations are based on basic engineering principles along with a VFD savings calculation software "FanSave Version 4.0.B," provided by ABB. It was reported that the air handling unit operates continuously 24 hours a day, 7 days a week.

Energy Savings Calculations:

Hours of Operation

| | |
|------------------------------|-------------------------------------|
| Total occupied hours | = 8760 Hours |
| AHU-1 Supply Fan Horse power | = 125 HP (Premium Efficiency Motor) |
| AHU-1 Return Fan Horse power | = 40 HP (Premium Efficiency Motor) |
| AHU-3 Supply Fan Horse power | = 10 HP (Standard Efficiency Motor) |

FanSave Calculations

FanSave software calculates fan energy consumption savings based on the principles below.

$$\text{Fan Electric HP} = \frac{Q_{CFM} \times \text{Total Pressure}_{in WG}}{6356 \times \eta_{Fan} \times \eta_{motor} \times \eta_{transmission}}$$

$$\text{Fan Energy Consumption (kWh)} = \text{Motor HP} \times 0.746 \frac{kW}{HP} \times \text{Hours of operation (Hr)}$$

$$\text{Total Fan Energy Consumption (kWh)} = \sum (\text{Energy Consumption of Each Motor})$$

$$\text{Fan Energy Cost (\$)} = \text{Total Consumption(kWh)} \times \text{Average Cost of Electric} \left(\frac{\$}{\text{kWh}} \right)$$

FanSave uses Affinity Laws in order to calculate energy savings by reducing fan speed. Affinity laws, also known as Fan Laws are as following:

Q = Flow, n = Fan Speed, p = total pressure

$$\frac{Q_2}{Q_1} = \frac{n_2}{n_1} \quad \frac{p_2}{p_1} = \left(\frac{n_2}{n_1} \right)^2 \quad \frac{HP_2}{HP_1} = \left(\frac{n_2}{n_1} \right)^3$$

Fan Save Input:

$\eta_{Fan} = 75\%$ $\eta_{transmission} = 95\%$

Existing Flow Control Method is selected as Inlet Box Damper. Total flow of the unit is 55,553 CFM with 8.8 in-WC static pressure.

Other input and output values can be seen in the below screenshot from the software.

AHU-1 Supply Fan: 125 HP

AHU-1 Return Fan: 40 HP:

FanSave
Energy saving calculator for fans

4.0.B Traditional flow control methods compared to variable speed AC drive control

EQUIPMENT DATA - EXISTING

Fan data

Fan type: Centrifugal Impeller type: Backward curved (B)

Nominal volume flow: ##### cfm

Total pressure increase: 5 in-H2O = 0.18 psi Efficiency: 75%

Transmission

Nominal efficiency: 95.0%

Existing flow control method: Inlet box damper

Motor data

Supply voltage: 460 V 440/460/480 V

Motor power: 40 Hp Required motor power: 38.7 Hp including 10% safety margin

Motor efficiency: 93.0%

Operating profile

Annual running time: 8,760 h

| | | | | |
|---------|-----|---|--------|--------------|
| DEFAULT | 10% | = | 876 h | at nom. flow |
| | 15% | = | 1314 h | at 90% flow |
| | 20% | = | 1752 h | at 80% flow |
| | 20% | = | 1752 h | at 70% flow |
| | 15% | = | 1314 h | at 60% flow |
| | 10% | = | 876 h | at half flow |
| | 10% | = | 876 h | at 40% flow |
| | | = | 0 h | at 30% flow |
| | | = | 0 h | at 20% flow |

GENERAL DATA

Measurement units: Metric US

Calculated by: C.E.G.
Calculated for: Pshc. Hospital
Fan ID: RF-1 / EF-1

EQUIPMENT DATA - NEW

Improved flow control by: ABB standard drive (ACS550)

ACS550-U1-059A-4 Copy to clipboard

SFP: Specific fan power: 1.9 kW/(m³/s)

Auto-adjust screen size Save calculation

Send to default printer Close program

Economic data

Currency: \$

Energy price: 0.10 \$/kWh

Investment cost: 20,000 \$

Interest rate: 8.0 %

Service life: 10.0 years

RESULTS

Energy & environmental

Electric power consumption of fan

Saving percentage: 35.3 %

Annual energy consumption:

| | |
|--|-------------------|
| with existing control method | 176,814 kWh |
| with improved control method | 114,311 kWh |
| Annual energy saving | 62,503 kWh |
| Annual CO₂ reduction | 31,252 lb |
| CO ₂ emission per unit | 0.5 lb/kWh |

Economic results

| | |
|----------------------------|------------------|
| Annual money saving | 6,375 \$ |
| Payback period | 3.1 years |
| Net present value | 22,779 \$ |

AHU Supply Fan: 10 HP:

FanSave 4.0.B Traditional flow control methods compared to variable speed AC drive control

EQUIPMENT DATA - EXISTING

Fan data: Fan type: Centrifugal, Impeller type: Backward curved (B), Nominal volume flow: ##### cfm, Total pressure increase: 1.5 in-H2O = 0.05 psi, Efficiency: 75%

Transmission: Nominal efficiency: 95.0%

Existing flow control method: Inlet box damper

Motor data: Supply voltage: 460 V, Motor power: 10 Hp, Motor efficiency: 88.5%

Operating profile: Annual running time: 8,760 h

GENERAL DATA

Measurement units: Metric / US

Calculated by: C.E.G., Calculated for: Pshc. Hospital, Fan ID: SF-3

EQUIPMENT DATA - NEW

Improved flow control by: ABB standard drive (ACS550), ACS550-U1-015A-4

SFP: Specific fan power: 0.6 kW/(m³/s)

RESULTS

Energy & environmental: Electric power consumption of fan graph showing kW vs Air flow rate (cfm). Saving percentage: 35.3%. Annual energy consumption: with existing control method 45,499 kWh, with improved control method 29,415 kWh, Annual energy saving 16,084 kWh, Annual CO₂ reduction 8,042 lb, CO₂ emission per unit 0.5 lb/kWh.

Economic results: Annual money saving 1,641 \$, Payback period 6.1 years, Net present value 1,008 \$

ABB logo

Results

FanSave 4.0.B calculates approximately ~35% fan power savings by replacing inlet box dampers controls with variable fan speed controls on the AHU-1 supply fan and return fans and AHU-3 supply fan. Results for both fans are tabulated below.

| SUMMARY OF ENERGY SAVINGS | | | | | |
|---------------------------|-----|-----------|----------------|---------------------|---------------------|
| FAN | HP | FLOW, CFM | ENERGY SAVINGS | ENERGY SAVINGS, KWH | ENERGY COST SAVINGS |
| AHU - 1 Supply | 125 | 55355 | 35.3% | 185,483 | \$18,919 |
| AHU - 1 Return | 40 | 31925 | 35.3% | 62,503 | \$6,375 |
| AHU - 3 Supply | 10 | 26000 | 35.3% | 16,084 | \$1,641 |
| Total | | | | 247,986 | \$25,295 |

Estimated total cost of three variable frequency drives, work required for the installation, wiring and programming and a new 10 HP motor is \$70,000.

NJ SmartStart incentives for VFD's: \$65/HP for 20+ HP

175 HP x \$65/HP = \$11,375

Energy Savings Summary:

| ECM #3 - ENERGY SAVINGS SUMMARY | |
|---|--------------|
| Installation Cost (\$): | \$70,000 |
| NJ Smart Start Equipment Incentive (\$): | \$11,375 |
| Net Installation Cost (\$): | \$58,625 |
| Maintenance Savings (\$/Yr): | \$0 |
| Energy Savings (\$/Yr): | \$25,295 |
| Total Yearly Savings (\$/Yr): | \$25,295 |
| Estimated ECM Lifetime (Yr): | 15 |
| Simple Payback | 2.3 |
| Simple Lifetime ROI | 547.2% |
| Simple Lifetime Maintenance Savings | \$0 |
| Simple Lifetime Savings | \$379,419 |
| Internal Rate of Return (IRR) | 43% |
| Net Present Value (NPV) | \$243,340.11 |

ECM #4: Hospital Kitchen Exhaust Hood Controls

Description:

The Psychiatric Hospital kitchen is equipped with two exhaust hoods for the cooking ranges. The size of each range hood is 5'x16'. The kitchen exhaust fan is controlled manually by a switch on the kitchen hoods.

Standard kitchen hood controls consist of switches and relays that interlock the kitchen grease hood exhaust fan(s) with the 100% outside air unit that provides make-up air for this system. Normal occupation of kitchen hood system is limited to occupied hours. During the site inspection it was noted that the kitchen exhaust fan runs for approximately 14 hours a day. Based on the operation, there is great potential energy savings through better controls of the hood exhaust fan and make-up air unit. It should be noted that make up air is supplied via transfer air from the food line area and adjacent corridors.

This energy conservation measure involves installing a Melink Kitchen Hood Variable Air Volume Controller; variable frequency drive on the kitchen hood exhaust fan; and turn off all the kitchen hood exhaust systems when the kitchen is closed. When the cooking appliances are turned on, the hood exhaust fan speed will increase based on the hood exhaust temperature. During heavy cooking, the kitchen hood exhaust fan increases to 100% speed until the smoke/vapor is removed. Energy savings are also realized when the kitchen equipment is operating at less than full load due to minimal cooking operations. During these times the fan speed decreases, removing only the necessary amount of air, saving exhaust fan energy and make up air conditioning energy.

Energy Calculations Summary:

Detailed calculations for the proposed kitchen hood control system can be found in the **Kitchen Exhaust Calculations Appendix**. It is pertinent to note that the calculation assumes the exhaust fans and make-up air unit are manually turned off for approximately 8 hours per day.

Installed cost of the kitchen hood control system is \$46,044. The calculated energy savings equals approximately \$6,505 per year.

| KITCHEN EXHAUST CONTROLS CALCULATION | | | |
|---|--|---------------------------------|----------------|
| ECM INPUTS | EXISTING | PROPOSED | SAVINGS |
| ECM INPUTS | Uncontrolled Kitchen Exhaust | MELINK Kitchen Exhaust Controls | |
| Fan Power Usage (kWh) | 37,171 | 17,324 | 19,847 |
| Gas Usage (MMbtu) | 969 | 690 | 279 |
| Cooling Energy (kWh) | 28,128 | 20,041 | 8,087 |
| Average Gas Cost (\$/Therm) | 0.72 | 0.72 | |
| Electric Cost (\$/KWH) | 0.102 | 0.102 | |
| SAVINGS CALCULATIONS | | | |
| ECM RESULTS | EXISTING | PROPOSED | SAVINGS |
| Gas Energy Cost (\$) | \$6,977 | \$4,971 | \$2,006 |
| Electric Energy Cost (\$) | \$6,661 | \$3,811 | \$2,849 |
| Total Energy Cost (\$) | \$13,638 | \$8,783 | \$4,855 |
| COMMENTS: | *ECM is based on calculations using spreadsheets prvided by MELINK Intelli-hood controls manufacturer. | | |

Energy Savings Summary:

| ECM #4 - ENERGY SAVINGS SUMMARY | |
|---|-------------|
| Installation Cost (\$): | \$46,044 |
| NJ Smart Start Equipment Incentive (\$): | \$0 |
| Net Installation Cost (\$): | \$46,044 |
| Maintenance Savings (\$/Yr): | \$0 |
| Energy Savings (\$/Yr): | \$4,855 |
| Total Yearly Savings (\$/Yr): | \$4,855 |
| Estimated ECM Lifetime (Yr): | 15 |
| Simple Payback | 9.5 |
| Simple Lifetime ROI | 58.2% |
| Simple Lifetime Maintenance Savings | \$0 |
| Simple Lifetime Savings | \$72,829 |
| Internal Rate of Return (IRR) | 6% |
| Net Present Value (NPV) | \$11,917.81 |

ECM #5: Variable Volume Primary Chilled Water Pumping

Description:

The Hospital utilizes chilled water cooling via two 165 ton water cooled York Centrifugal Chillers. The chilled water is circulated through the building via two (2) 30 HP primary chilled water pumps. The existing air side chilled water coils are controlled with three-way control valves.

In general chilled water pumps are sized to meet the peak demand of system coils, and in many cases are oversized in the event additional load is added to the system. In a constant volume system this means that pumps are running inefficiently and using more energy during off load hours. The installation of variable flow controls on the pumps can optimize the energy necessary to meet the flow requirements of the system during various load hours.

The proposed variable primary volume pumping scenario will require the conversion of the three-way valves to two-way valves by installing an isolation valve in the bypass pipe. Verification of the existing 165 ton chiller minimum evaporator flow will be required to ensure continuous and reliable operation of the chiller. This ECM requires installation of two (2) variable speed drives and a pressure sensor will need to be installed at the furthest coil on the loop to control the flow through the system.

Energy Savings Calculations:

| | |
|-----------------------------|----------------|
| Cooling Season Run Hrs. | = 4000 hrs/yr. |
| Average Cost of Electricity | = \$0.102/kWh |
| Motor HP (Each) | = 30 HP |
| Total GPM | = 800 GPM |
| Nominal Piping System Head | = 80 Ft Head |
| Motor Efficiency | = 94.1% |
| Pump Efficiency (Estimated) | = 75% |

Variable flow pumping energy calculations are based on calculation software “PumpSave v4.2,” provided by ABB. Existing operation calculations are based on 80% constant flow throughout the cooling season. It is assumed that only one (1) pump is run at any given time.

PumpSave 4.2 Energy saving calculator for pumps

System Data
 Liquid density: 62 lb/ft³ Static head: 1 ft

Pump Data
 Nominal volume flow: 800 gpm Efficiency: 75%
 Nominal head: 81 ft Max head: 100 ft

Existing Flow Control
 [Dropdown menu]

Motor and Supply Data
 Supply voltage: 400 V 380/400/415 V
 Motor power: 30 Hp Required motor power: 24 Hp including 10% safety margin
 Motor efficiency: 94.1%

Operating Profile
 Annual running time: 4,000 h

Measurement Units
 Metric US

Energy Consumption
 Energy Consumed (kWh) [Bar chart showing ~28,000 kWh]
 Power (kW) [Line graph showing power increasing with flow rate]

Results
 Saving percentage: [Yellow box]
 Annual energy consumption: [Yellow box] MWh
 with existing control method [Yellow box] MWh
 with improved control method 30 MWh
 Annual energy saving -30 MWh
 Annual CO₂ reduction -15 t
 CO₂ emission/unit 0.5 lb/kWh

Economic Data
 Currency unit \$
 Energy price -0.102 \$/kWh
 Investment cost \$
 Interest rate 0%
 Service life 0 years

Economic Results
 Annual saving 3,043 \$
 Payback period [Yellow box] years
 Net present value [Yellow box] \$

Buttons: Auto-adjust screen size, Save calculation, Send to default printer, Close program, ABB logo

Installation cost for the system conversion is estimated to be \$55,450. This includes two (2) 30HP VFDs, 2-way valve installation on three (3) of the major air handling units, controls and programming. The cost does not include motor replacement since the existing motor are NEMA Premium Efficiency type motors.

$$\text{Current Consumption, kWh} = \text{Pump Power, kW} \times \text{Hours of Operation} \times \text{Ave. Load, \%}$$

$$\text{Current Consumption, kWh} = 30 \text{ HP} \times 0.746 \frac{\text{kW}}{\text{HP}} \times 4000 \text{ Hrs} \times 80\% = 70,900 \text{ kWh}$$

$$\text{Current Cost of Pump Operation} = 70,900 \text{ kWh} \times \frac{\$0.102}{\text{kWh}} = \$7,232$$

| ENERGY SAVINGS CALCULATIONS | | |
|-----------------------------|----------------|---------------|
| | Electric Usage | Electric Cost |
| Existing | 70,900 | \$7,232 |
| Proposed | 30,000 | \$3,060 |
| Savings | 40,900 | \$4,172 |

From the NJ Smart Start[®] Program appendix, the unit falls under the category “Variable Frequency Drive” and warrants an incentive based on horsepower. The program incentives are calculated as follows:

$$\text{SmartStart } \textcircled{R} \text{ Incentive} = \text{Horse Power} \times \frac{\$}{\text{Horse Power}}$$

$$= 2 \text{ Pumps} \times 30 \text{ HP} \times \frac{\$60}{\text{HP}} = \$3,600$$

Energy Savings Summary:

| ECM #5 - ENERGY SAVINGS SUMMARY | |
|---|--------------|
| Installation Cost (\$): | \$55,450 |
| NJ Smart Start Equipment Incentive (\$): | \$3,600 |
| Net Installation Cost (\$): | \$51,850 |
| Maintenance Savings (\$/Yr): | \$0 |
| Energy Savings (\$/Yr): | \$4,172 |
| Total Yearly Savings (\$/Yr): | \$4,172 |
| Estimated ECM Lifetime (Yr): | 15 |
| Simple Payback | 12.4 |
| Simple Lifetime ROI | 20.7% |
| Simple Lifetime Maintenance Savings | \$0 |
| Simple Lifetime Savings | \$62,577 |
| Internal Rate of Return (IRR) | 2% |
| Net Present Value (NPV) | (\$2,047.52) |

VIII. RENEWABLE/DISTRIBUTED ENERGY MEASURES

Globally, renewable energy has become a priority affecting international and domestic energy policy. The State of New Jersey has taken a proactive approach, and has recently adopted in its Energy Master Plan a goal of 30% renewable energy by 2020. To help reach this goal New Jersey created the Office of Clean Energy under the direction of the Board of Public Utilities and instituted a Renewable Energy Incentive Program to provide additional funding to private and public entities for installing qualified renewable technologies. A renewable energy source can greatly reduce a building's operating expenses while producing clean environmentally friendly energy. CEG has assessed the feasibility of installing renewable energy technologies for the Meadowview Campus, to evaluate if there is any potential for solar or wind energy generation.

Solar energy produces clean energy and reduces a building's carbon footprint. This is accomplished via photovoltaic panels which could be mounted on all south and southwestern facades of the building. Flat roof, as well as sloped areas can be utilized; flat areas will have the panels turned to an optimum solar absorbing angle. (A structural survey of the roof would be necessary before the installation of PV panels is considered). Parking lots can also be utilized for the installation of a solar array. A truss system can be installed that is high enough to park a vehicle under the array, this way no parking lot area is lost. The state of New Jersey has instituted a program in which one Solar Renewable Energy Certificate (SREC) is given to the Owner for every 1000 kWh of generation. SREC's can be sold anytime on the market at their current market value. The value of the credit varies upon the current need of the power companies. The average value per credit is around \$350, this value was used in our financial calculations. This equates to \$0.35 per kWh generated.

CEG has reviewed the campus and believes that a parking lot canopy system would be more appropriate given the small amount of space available on the roof. The proposed arrays will be installed in the Psych Hospital's Parking Lot. This lot was selected based on proximity with the existing electrical system site distribution. The new parking lot arrays should be directly tied into closest building. Given the additional expense for a step up transformer and installation of high voltage wire it is more economical to run secondary distribution voltage wire to adjacent buildings to be fed from the solar arrays. A depiction of the proposed area layouts is shown in Renewable / Distributed Energy Measures Calculation, Appendix F following the financial calculations. Based on measurements of the parking lot it was determined that a system size of 43.01 kilowatts could be installed. The total system has an estimated kilowatt hour production of 49,700 KWh annually, reducing the overall electric consumption by approximately 0.8%. A detailed financial analysis can be found in Appendix F. This analysis illustrates the payback of the system over a 25 year period. The eventual degradation of the solar panels and the price of accumulated SREC's are factored into the payback.

The proposed photovoltaic array layout is designed based on the specifications for the Sun Power SPR-230 panel. This panel has a "DC" rated full load output of 230 watts, and has a total panel conversion efficiency of 18%. Although panels rated at higher wattages are available through Sun Power and other various manufacturers, in general most manufacturers who produce commercially available solar panels produce a similar panel in the 200 to 250 watt range. This

provides more manufacturer options to the public entity if they wish to pursue the proposed solar recommendation without losing significant system capacity.

The array system capacity was sized on available parking lot space on the campus. Estimated solar array generation was then calculated based on the National Renewable Energy Laboratory PVWatts Version 1.0 Calculator. In order to calculate the array generation an appropriate location with solar data on file must be selected. In addition the system DC rated kilowatt (kW) capacity must be inputted, a DC to AC de-rate factor, panel tilt angle, and array azimuth angle. The DC to AC de-rate factor is based on the panel nameplate DC rating, inverter and transformer efficiencies (95%), mismatch factor (98%), diodes and connections (100%), dc and ac wiring(98%, 99%), soiling, (95%), system availability (95%), shading (if applicable), and age(new/100%). The overall DC to AC de-rate factor has been calculated at an overall rating of 81%. The PVWatts Calculator program then calculates estimated system generation based on average monthly solar irradiance and user provided inputs. The monthly energy generation and offset electric costs from the PVWatts calculator is shown in the Renewable/Distributed Energy Measures Calculation appendix.

The proposed solar array is qualified by the New Jersey Board of Public Utilities Net Metering Guidelines as a Class I Renewable Energy Source. These guidelines allow onsite customer generation using renewable energy sources such as solar and wind with a capacity of 2 megawatts (MW) or less. This limits a customer system design capacity to being a net user and not a net generator of electricity on an annual basis. Although these guidelines state that if a customer does net generate (produce more electricity than they use), the customer will be credited those kilowatt-hours generated to be carried over for future usage on a month to month basis. Then, on an annual basis if the customer is a net generator the customer will then be compensated by the utility the average annual PJM Grid LMP price per kilowatt-hour for the over generation. Due to the aforementioned legislation, the customer is at limited risk if they generate more than they use at times throughout the year. With the inefficiency of today’s energy storage systems, such as batteries, the added cost of storage systems is not warranted and was not considered in the proposed design.

CEG has reviewed financing options for the owner. Direct purchase involves the county paying for 100% of the total project cost upfront via one of the methods noted in the Installation Funding Options section below. These calculations include a utility inflation rate as well as the degradation of the solar panels over time. Based on our calculation the following is the payback period for this method of payment:

| FINANCIAL SUMMARY - PHOTOVOLTAIC SYSTEM | | | |
|--|-----------------------|--------------------------|--------------------------------|
| PAYMENT TYPE | SIMPLE PAYBACK | NET PRESENT VALUE | INTERNAL RATE OF RETURN |
| Direct Purchase | 15.32 Years | \$240,501 | 4.5 % |

*The solar energy measure is shown for reference in the executive summary ECM table

Given the large amount of capital required by the County to invest in a solar system whether through a Direct Purchase option CEG does not recommend the County pursue this route. It would be more advantageous for the County to solicit Power Purchase Agreement (PPA) Providers who will own, operate, and maintain the system for a period of 15 years. During this time the PPA Provide would sell all of the electric generated by Solar Arrays to the County at a reduced rate compared to their existing electric rate.

In addition to the Solar Analysis, CEG also conducted a review of the applicability of wind energy for the facility. Wind energy production is another option available through the Renewable Energy Incentive Program. Wind turbines of various types can be utilized to produce clean energy on a per building basis. Cash incentives are available per kWh of electric usage. Based on CEG's review of the applicability of wind energy for the facility; the low average wind speed, proximity to residential neighbor hoods, and limited site space make the County not a good candidate for wind.

IX. ENERGY PURCHASING AND PROCUREMENT STRATEGY

Load Profile:

Load Profile analysis was performed to determine the seasonal energy usage of the facility. Irregularities in the load profile will indicate potential problems within the facility. Consequently based on the profile a recommendation will be made to remedy the irregularity in energy usage. For this report, the facility's energy consumption data was gathered in table format and plotted in graph form to create the load profile. Refer to The Electric and Natural Gas Usage Profiles included within this report to reference the respective electricity and natural gas usage load profiles.

Electricity:

The Total Electric Usage Profile of the Meadowview Complex demonstrates a fairly flat electrical load profile. The summer (May-August) demonstrates increased consumption typical to air conditioning load as exemplified by the various types of packaged air conditioning units, split system AC units, chillers, and window air conditioning units throughout the campus. The monthly energy consumption peaks around August when the space cooling load is the largest. Most of the cooling is achieved in the campus buildings via air cooled equipment. Air cooled air conditioners are significantly less efficient than water cooled equipment, which increases the electric power demand of the facility as well as the consumption. There is a fairly steady yearlong electric load most likely attributable to the 24 hour operation of many of the buildings in the campus, such as the County Psychiatric Hospital, Juvenile Detention Center and the Rehabilitation Programs.

Natural Gas:

The Natural Gas Usage Profile demonstrates a somewhat typical heating load profile. An increase in consumption is observed October through May during the standard heating season. However, significant gas consumption remains throughout year. This is because the majority of the facilities in this complex operates 24/7 and requires natural gas for hot water production and cooking. Heating and domestic hot water are supplied to the entire complex by a central steam boiler plant. The plant provides hot water to a large nursing home complex, not owned by the county. This, along with the other facility's constant need for domestic hot water, creates a large baseline natural gas load for the campus.

Tariff Analysis:

Electricity:

The facility receives electric service through Public Service Electric and Gas Company (PSE&G) on two different rate structures. Buildings #4-9 receives the service on Large Power and Lighting Service (LPLS) rate schedules. LPLS is the secondary service to the facilities between 150 - 750 kW demand ranges. The service for the rest of the campus buildings receive the service on Large

Power and Lighting Service (LPLP) rate schedules, which is the secondary service for the facilities with electrical demand above 750KW.

For electric supply (generation), the customer can elect to use the utility's Basic Generation Service (BGS) or a Third Party Supplier (TPS). This facility uses a Third Party Supplier for the buildings #1-3, 10, 12, 15 and the Basic Generation Service (BGS) from the PSE&G for buildings #4-9. They pay according to the BGS default service for only buildings #4-9 and the TPS for the rest of the campus. The Delivery Service includes the following charges: Annual Demand Charge (kW Demand all months), Summer Demand Charge (kW Demand June – Sept), Distribution Kilowatt-hour Charge (kWh Usage), as well as other supplemental charges.

Natural Gas:

This facility receives natural gas service through Public Service Electric and Gas Company (PSE&G) on GSG (General Service Gas) and TSG-NF (Non-Firm Transportation Gas Service) rates. GSG is a firm delivery service (higher level of delivery) for general purposes where customer does not qualify for RSG (residential) and customer's usage does not exceed 3,000 therms in any month. Customers may either purchase gas supply from a Third Party (TPS) or from Public Services Basic Gas Supply Service (BGSS) default service as detailed in the rate schedule. Currently this facility receives the commodity supply from PSEG at BGSS default rates. This service is used at the Meadowview buildings for low consumption purposes such as cooking and laundry. The service described above has a much higher priority of delivery, based on the pipeline capacity. The "firm" service is the highest priority, and does not get interrupted.

TSG-NF is an interruptible delivery for general purposes where the maximum requirement for interruptible gas is not less than 150 Therms per hour and where the customer has the installed capability to utilize an alternate type of fuel, except as provided for in Special Provisions. Customers may either purchase gas supply from a Third Party Supplier (TPS) or from Public Service's Basic Gas Supply Service default service as detailed in this rate schedule. This service is used mainly at the central steam plant, which delivers steam to the various buildings throughout the campus. Currently this facility receives the commodity supply from PSEG at BGSS default rates. The service described above has a lower priority of delivery, based on the pipeline capacity. If the gas demand in the pipeline increases, this facility can switch to oil as primary fuel for the boilers because the plant is capable of utilizing oil as boiler fuel.

Both of these rate schedules have a Delivery Charge Mechanism which includes: Balancing Charge, Societal Benefits Charge, Realignment Adjustment Charge, Margin Adjustment Charge, RGGI Charge and Customer Account Service Charge. The customer can elect to have the Supply Charge (Commodity Charge) serviced through the utility or by a Third Party Supplier (TPS).

Note: Should the TPS not deliver, the customer may receive service from PSE&G under Emergency Sales Service. Emergency Sales Service carries an extremely high penalty cost of service. Should the TPS un-deliver to the utility on behalf of the client, the utility will automatically supply this default service to the client. Imbalances occur when Third Party Suppliers are used to supply natural gas, full-delivery is not made, and when a new supplier is contracted or the customer returns to the utility. It is important when utilizing a Third Party

Supplier, that an experienced regional supplier is used. Otherwise, imbalances can occur, jeopardizing economics and scheduling.

Recommendations:

CEG recommends a global approach that will be consistent with all facilities within the County. One area for potential improvement is seen in the electric costs. The average price per kWh (kilowatt hour) for the electrical service to the buildings #4-9 is \$0.11/kWh, (this is the average “price to compare” if the client intends to shop for energy) based on the default BGS supply charges. The price per kWh (kilowatt hour) for the rest of the campus is \$0.69/kWh based on the default TPS supply charges (This is the average “price to compare”). It is recommended to shop for pricing based on the combined load profile for all buildings owned by the County. The more diversified the load patterns, the more advantageous the load profile becomes.

The load factor for this facility is slightly below 50% which will allow for Hudson County Correctional Center to procure fairly competitive pricing. The higher the load factor, the more advantageous. Although many additional factors play a role in energy procurement, having a load factor above 50% is beneficial.

The average price per dekatherm for natural gas is \$ 7.20 / dth (dth, dekatherm is the common unit of measure). Energy commodities are among the most volatile of all commodities, however at this point and time, energy is competitive. Based on this facility’s average annual natural gas costs Hudson County Correctional Center is already receiving extremely competitive natural gas costs. It is recommended that the County receive further advisement on these prices through an energy advisor. The County should also consider procuring energy (natural gas) through alternative supply sources as well.

It is recommended that the County schedule a meeting with the current utility providers to review their utility charges and current tariff structures for electricity and natural gas. This meeting would provide insight regarding alternative procurement options that are currently available. Through its meeting with the Local Distribution Company (LDC), the municipality can learn more about the competitive supply process. Hudson County can acquire a list of approved Third Party Suppliers from the New Jersey Board of Public Utilities website at www.nj.gov/bpu. Hudson County should consider using a billing-auditing service to further analyze the utility invoices, manage the data and use the information for ongoing demand-side management projects. Furthermore, special attention should be given to credit mechanisms, imbalances, balancing charges and commodity charges when meeting with the utility representative. The County should ask the utility representative about alternative billing options, such as consolidated billing when utilizing the service of a Third Party Supplier. Finally, if the supplier for energy (natural gas) is changed, closely monitor balancing, particularly when the contract is close to termination. This could be performed with the aid of an “energy advisor”.

X. INSTALLATION FUNDING OPTIONS

CEG has reviewed various funding options for the facility owner to utilize in subsidizing the costs for installing the energy conservation measures noted within this report. Below are a few alternative funding methods:

- i. *Energy Savings Improvement Program (ESIP)* – Public Law 2009, Chapter 4 authorizes government entities to make energy related improvements to their facilities and pay for the costs using the value of energy savings that result from the improvements. The “Energy Savings Improvement Program (ESIP)” law provides a flexible approach that can allow all government agencies in New Jersey to improve and reduce energy usage with minimal expenditure of new financial resources.
- ii. *Municipal Bonds* – Municipal bonds are a bond issued by a city or other local government, or their agencies. Potential issuers of municipal bonds include cities, counties, redevelopment agencies, school districts, publicly owned airports and seaports, and any other governmental entity (or group of governments) below the state level. Municipal bonds may be general obligations of the issuer or secured by specified revenues. Interest income received by holders of municipal bonds is often exempt from the federal income tax and from the income tax of the state in which they are issued, although municipal bonds issued for certain purposes may not be tax exempt.
- iii. *Power Purchase Agreement* – Public Law 2008, Chapter 3 authorizes contractor of up to fifteen (15) years for contracts commonly known as “power purchase agreements.” These are programs where the contracting unit (Owner) procures a contract for, in most cases, a third party to install, maintain, and own a renewable energy system. These renewable energy systems are typically solar panels, windmills or other systems that create renewable energy. In exchange for the third party’s work of installing, maintaining and owning the renewable energy system, the contracting unit (Owner) agrees to purchase the power generated by the renewable energy system from the third party at agreed upon energy rates.
- iv. *Pay For Performance* – The New Jersey Smart Start Pay for Performance program includes incentives based on savings resulted from implemented ECMs. The program is available for all buildings that were audited as part of the NJ Clean Energy’s Local Government Energy Audit Program. The facility’s participation in the program is assisted by an approved program partner. An “Energy Reduction Plan” is created with the facility and approved partner to show at least 15% reduction in the building’s current energy use. Multiple energy conservation measures implemented together are applicable toward the total savings of at least 15%. No more than 50% of the total energy savings can result from lighting upgrades / changes.

Total incentive is capped at 50% of the project cost. The program savings is broken down into three benchmarks; Energy Reduction Plan, Project Implementation, and Measurement and Verification. Each step provides additional incentives as the energy reduction project continues. The benchmark incentives are as follows:

1. Energy Reduction Plan – Upon completion of an energy reduction plan by an approved program partner, the incentive will grant \$0.10 per square foot between \$5,000 and \$50,000, and not to exceed 50% of the facility's annual energy expense. (Benchmark #1 is not provided in addition to the local government energy audit program incentive.)
2. Project Implementation – Upon installation of the recommended measures along with the “Substantial Completion Construction Report,” the incentive will grant savings per KWH or Therm based on the program's rates. Minimum saving must be 15%. (Example \$0.11 / kWh for 15% savings, \$0.12/ kWh for 17% savings, ... and \$1.10 / Therm for 15% savings, \$1.20 / Therm for 17% saving, ...) Increased incentives result from projected savings above 15%.
3. Measurement and Verification – Upon verification 12 months after implementation of all recommended measures, that actual savings have been achieved, based on a completed verification report, the incentive will grant additional savings per kWh or Therm based on the program's rates. Minimum savings must be 15%. (Example \$0.07 / kWh for 15% savings, \$0.08/ kWh for 17% savings, ... and \$0.70 / Therm for 15% savings, \$0.80 / Therm for 17% saving, ...) Increased incentives result from verified savings above 15%.

CEG recommends the Owner review the use of the above-listed funding options in addition to utilizing their standard method of financing for facilities upgrades in order to fund the proposed energy conservation measures.

XI. ADDITIONAL RECOMMENDATIONS

The following recommendations include no cost/low cost measures, Operation & Maintenance (O&M) items, and water conservation measures with attractive paybacks. These measures are not eligible for the Smart Start Buildings incentives from the office of Clean Energy but save energy none the less.

- A. Chemically clean the condenser and evaporator coils periodically to optimize efficiency. Poorly maintained heat transfer surfaces can reduce efficiency 5-10%.
- B. Maintain all weather stripping on windows and doors.
- C. Clean all light fixtures to maximize light output.
- D. Provide more frequent air filter changes to decrease overall system power usage and maintain better IAQ.
- E. Confirm that outside air economizers on the rooftop units and air handling units are functioning properly to take advantage of free cooling and avoid excess outside air during occupied periods.
- F. Implement a steam trap maintenance program. When steam traps fail, they will release steam which can accumulate to huge volumes of steam contributing to increase boiler plant flue costs. Steam traps should be inspected to ensure proper operation, or monitored with temperature sensors to alarm when steam is passing.

In addition to the recommendations above, implementing Retro-Commissioning would be beneficial for this facility. Retro-Commissioning is a means to verify your current equipment is operating at its designed efficiency, capacity, airflow, and overall performance. Retro-Commissioning provides valuable insight into systems or components not performing correctly or efficiently. The commissioning process defines the original system design parameters and recommends revisions to the current system operating characteristics.

XII. ENERGY AUDIT ASSUMPTIONS

The assumptions utilized in this energy audit include but are not limited to following:

- A. Cost Estimates noted within this report are based on industry accepted costing data such as RS MeansTM Cost Data, contractor pricing and engineering estimates. All cost estimates for this level of auditing are +/- 20%. Prevailing wage rates for the specified region has been utilized to calculate installation costs. The cost estimates indicated within this audit should be utilized by the owner for prioritizing further project development post the energy audit. Project development would include investment grade auditing and detailed engineering.
- B. Energy savings noted within this audit are calculated utilizing industry standard procedures and accepted engineering assumptions. For this level of auditing, energy savings are not guaranteed.
- C. Information gathering for each facility is strongly based on interviews with operations personnel. Information dependent on verbal feedback is used for calculation assumptions including but not limited to the following:
 - a. operating hours
 - b. equipment type
 - c. control strategies
 - d. scheduling
- D. Information contained within the major equipment list is based on the existing owner documentation where available (drawings, O&M manuals, etc.). If existing owner documentation is not available, catalog information is utilized to populate the required information.
- E. Equipment incentives and energy credits are based on current pricing and status of rebate programs. Rebate availability is dependent on the individual program funding and applicability.
- F. Equipment (HVAC, Plumbing, Electrical, & Lighting) noted within an ECM recommendation is strictly noted as a **basis for calculation** of energy savings. The owner should use this equipment information as a benchmark when pursuing further investment grade project development and detailed engineering for specific energy conservation measures.
- G. Utility bill annual averages are utilized for calculation of all energy costs unless otherwise noted. Accuracy of the utility energy usage and costs are based on the information provided. Utility information including usage and costs is estimated where incomplete data is provided.

ECM COST & SAVINGS BREAKDOWN
CONCORD ENGINEERING GROUP

Hudson County - Meadowview Psychiatric Hospital

| ECM ENERGY AND FINANCIAL COSTS AND SAVINGS SUMMARY | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------|----------|---------------------|-----------------------|----------------|---------------|----------|--------------|--------------------------------|--------------------------------------|--|-----------------------------|--|---------------------------------------|
| ECM NO. | DESCRIPTION | INSTALLATION COST | | | | YEARLY SAVINGS | | | ECM LIFETIME | LIFETIME ENERGY SAVINGS | LIFETIME MAINTENANCE SAVINGS | LIFETIME ROI | SIMPLE PAYBACK | INTERNAL RATE OF RETURN | NET PRESENT VALUE (NPV) |
| | | MATERIAL | LABOR | REBATES, INCENTIVES | NET INSTALLATION COST | ENERGY | MAINT. / SREC | TOTAL | | (Yearly Saving * ECM Lifetime) | (Yearly Maint Saving * ECM Lifetime) | (Lifetime Savings - Net Cost) / (Net Cost) | (Net cost / Yearly Savings) | $\sum_{n=0}^N \frac{C_n}{(1 + IRR)^n}$ | $\sum_{n=0}^N \frac{C_n}{(1 + DR)^n}$ |
| | | (\$) | (\$) | (\$) | (\$) | (\$/Yr) | (\$/Yr) | (\$/Yr) | | (Yr) | (\$) | (\$) | (%) | (Yr) | (\$) |
| ECM #1 | Lighting Equipment Upgrade | \$5,438 | \$8,158 | \$1,650 | \$11,946 | \$4,193 | \$189 | \$4,382 | 25 | \$109,548 | \$4,727 | 817.0% | 2.7 | 36.67% | \$64,357.31 |
| ECM #2 | Lighting Controls Upgrade | \$1,344 | \$2,016 | \$420 | \$2,940 | \$230 | \$0 | \$230 | 25 | \$5,760 | \$0 | 95.9% | 12.8 | 6.02% | \$1,071.82 |
| ECM #3 | AHU Supply & Return VFD Retrofit | \$26,500 | \$43,500 | \$11,375 | \$58,625 | \$25,295 | \$0 | \$25,295 | 15 | \$379,419 | \$0 | 547.2% | 2.3 | 42.94% | \$243,340.11 |
| ECM #4 | Kitchen Exhaust Hood Controls | \$46,044 | \$0 | \$0 | \$46,044 | \$4,855 | \$0 | \$4,855 | 15 | \$72,829 | \$0 | 58.2% | 9.5 | 6.37% | \$11,917.81 |
| ECM #5 | Variable Primary Chilled Water Flow | \$18,900 | \$36,550 | \$3,600 | \$51,850 | \$4,172 | \$0 | \$4,172 | 15 | \$62,577 | \$0 | 20.7% | 12.4 | 2.45% | (\$2,047.52) |
| REM RENEWABLE ENERGY AND FINANCIAL COSTS AND SAVINGS SUMMARY | | | | | | | | | | | | | | | |
| REM #1 | Solar Photovoltaic System | \$344,080 | \$0 | \$0 | \$344,080 | \$5,069 | \$17,395 | \$22,464 | 25 | \$561,610 | \$434,875 | 63.2% | 15.3 | 4.19% | \$47,095.91 |

- Notes:**
- 1) The variable C_n in the formulas for Internal Rate of Return and Net Present Value stands for the cash flow during each period.
 - 2) The variable DR in the NPV equation stands for Discount Rate
 - 3) For NPV and IRR calculations: From n=0 to N periods where N is the lifetime of ECM and C_n is the cash flow during each period.



Concord Engineering Group, Inc.

520 BURNT MILL ROAD
VOORHEES, NEW JERSEY 08043
PHONE: (856) 427-0200
FAX: (856) 427-6508

SmartStart Building Incentives

The NJ SmartStart Buildings Program offers financial incentives on a wide variety of building system equipment. The incentives were developed to help offset the initial cost of energy-efficient equipment. The following tables show the current available incentives as of February, 2010:

Electric Chillers

| | |
|-----------------------|----------------------|
| Water-Cooled Chillers | \$12 - \$170 per ton |
| Air-Cooled Chillers | \$8 - \$52 per ton |

Energy Efficiency must comply with ASHRAE 90.1-2004

Gas Cooling

| | |
|----------------------------|---|
| Gas Absorption Chillers | \$185 - \$400 per ton |
| Gas Engine-Driven Chillers | Calculated through custom measure path) |

Desiccant Systems

| |
|----------------------------------|
| \$1.00 per cfm – gas or electric |
|----------------------------------|

Electric Unitary HVAC

| | |
|--|---------------------|
| Unitary AC and Split Systems | \$73 - \$93 per ton |
| Air-to-Air Heat Pumps | \$73 - \$92 per ton |
| Water-Source Heat Pumps | \$81 per ton |
| Packaged Terminal AC & HP | \$65 per ton |
| Central DX AC Systems | \$40- \$72 per ton |
| Dual Enthalpy Economizer Controls | \$250 |
| Occupancy Controlled Thermostat (Hospitality & Institutional Facility) | \$75 per thermostat |

Energy Efficiency must comply with ASHRAE 90.1-2004

Ground Source Heat Pumps

| | |
|-------------------------|-------------------------|
| Closed Loop & Open Loop | \$450 per ton, EER ≥ 16 |
| | \$600 per ton, EER ≥ 18 |
| | \$750 per ton, EER ≥ 20 |

Energy Efficiency must comply with ASHRAE 90.1-2004

Gas Heating

| | |
|--------------------------------------|--|
| Gas Fired Boilers < 300 MBH | \$300 per unit |
| Gas Fired Boilers ≥ 300 - 1500 MBH | \$1.75 per MBH |
| Gas Fired Boilers ≥1500 - ≤ 4000 MBH | \$1.00 per MBH |
| Gas Fired Boilers > 4000 MBH | (Calculated through Custom Measure Path) |
| Gas Furnaces | \$300 - \$400 per unit, AFUE ≥ 92% |

Variable Frequency Drives

| | |
|---------------------|-------------------------------|
| Variable Air Volume | \$65 - \$155 per hp |
| Chilled-Water Pumps | \$60 per hp |
| Compressors | \$5,250 to \$12,500 per drive |

Natural Gas Water Heating

| | |
|--------------------------------------|-------------------------|
| Gas Water Heaters ≤ 50 gallons | \$50 per unit |
| Gas-Fired Water Heaters > 50 gallons | \$1.00 - \$2.00 per MBH |
| Gas-Fired Booster Water Heaters | \$17 - \$35 per MBH |
| Gas Fired Tankless Water Heaters | \$300 per unit |

Prescriptive Lighting

| | |
|---|--|
| Retro fit of T12 to T-5 or T-8 Lamps w/Electronic Ballast in Existing Facilities | \$15 per fixture (1-4 lamps) |
| Replacement of T12 with new T-5 or T-8 Lamps w/Electronic Ballast in Existing Facilities | \$25 per fixture (1-2 lamps) \$30 per fixture (3-4 lamps) |
| Replacement of incandescent with screw-in PAR 38 or PAR 30 (CFL) bulb | \$7 per bulb |
| T-8 reduced Wattage (28w/25w 4', 1-4 lamps) Lamp & ballast replacement | \$10 per fixture |
| Hard-Wired Compact Fluorescent | \$25 - \$30 per fixture |
| Metal Halide w/Pulse Start | \$25 per fixture |
| LED Exit Signs | \$10 - \$20 per fixture |
| T-5 and T-8 High Bay Fixtures | \$16 - \$284 per fixture |
| HID ≥ 100w Retrofit with induction lamp, power coupler and generator (must be 30% less watts/fixture than HID system) | \$50 per fixture |
| HID ≥ 100w Replacement with new HID ≥ 100w | \$70 per fixture |
| LED Refrigerator/Freezer case lighting replacement of fluorescent in medium and low temperature display case | \$42 per 5 foot \$65 per 6 foot |

Lighting Controls – Occupancy Sensors

| | |
|---|-----------------------------|
| Wall Mounted | \$20 per control |
| Remote Mounted | \$35 per control |
| Daylight Dimmers | \$25 per fixture |
| Occupancy Controlled hi-low Fluorescent Controls | \$25 per fixture controlled |

Lighting Controls – HID or Fluorescent Hi-Bay Controls

| | |
|---------------------------|-----------------------------|
| Occupancy hi-low | \$75 per fixture controlled |
| Daylight Dimming | \$75 per fixture controlled |
| Daylight Dimming - office | \$50 per fixture controlled |

Premium Motors

| | |
|---|--|
| Three-Phase Motors | \$45 - \$700 per motor |
| Fractional HP Motors Electronic Communicated Motors (replacing shaded pole motors in refrigerator/freezer cases) | \$40 per electronic communicated motor |

Other Equipment Incentives

| | |
|---|---|
| Performance Lighting | \$1.00 per watt per SF below program incentive threshold, currently 5% more energy efficient than ASHRAE 90.1- 2004 for New Construction and Complete Renovation |
| Custom Electric and Gas Equipment Incentives | not prescriptive |
| Custom Measures | \$0.16 KWh and \$1.60/Therm of 1st year savings, or a buy down to a 1 year payback on estimated savings. Minimum required savings of 75,000 KWh or 1,500 Therms and a IRR of at least 10%. |
| Multi Measures Bonus | 15% |

Portfolio Manager “Statement of Energy Performance”

An Energy Performance Rating cannot be established for the Campus or individual buildings. The Energy Star program does not have enough bin data available to calculate a campus wide Energy Performance Rating at this time. Also, individual building ratings cannot be established due to the design of the Campus wide electric and gas distribution system. One year of utility data must be entered for each building or facility, since reliable building energy meters do not exist, this approach cannot be taken.

MAJOR EQUIPMENT LIST**Concord Engineering Group
"Meadowview Complex - Psychiatric Hospital"****Chillers**

| Tag | CH-1 | CH-2 |
|------------------------------|-------------------------|-------------|
| Type | Water Cooled | |
| Location | Control House | |
| Area Served | Air Handling Units | |
| Manufacturer | York | |
| Qty. | 2 | |
| Model # | YTC3C3B2 | YTC3C3B2 |
| Serial # | GCEM212164 | GCEM212265 |
| Nominal Tons | 2 x 165 | |
| Refrigerant | R123 | |
| Service | Regular | |
| EWT | 52 | |
| LWT | 42 | |
| Efficiency (kW/Ton) | 0.62 | |
| Chilled Water GPM, DT | 396 GPM, 10°F | |
| Condenser Water GPM | 495 GPM, 8.4°F | |
| Volt / Phase | 460/3 | |
| Approx. Age | 14 | |
| ASHRAE Service Life | 20 | |
| Remaining Life | 6 | |
| Notes | IGV's for load control. | |

MAJOR EQUIPMENT LIST
Concord Engineering Group
"Meadowview Complex - Psychiatric Hospital"

Pumps

| Tag | CHP-1, 1A | CWP 1, 1A | |
|----------------------------|----------------------|---|--|
| Location | Control Room | Control Room | |
| Area Served | Condenser Water | Chilled Water | |
| Manufacturer | Aurora | Aurora | |
| Qty. | 2 | 2 | |
| Model # | - | - | |
| Serial # | - | - | |
| HP | 30HP | 30HP | |
| RPM | 1,770 | 1770 | |
| GPM | ~600 | 400 | |
| Ft. Hd | - | - | |
| Motor Frame Size | 286T | 286T | |
| Motor Efficiency | 94.1% | 94.1% | |
| Volts / Phase | 460/3 | 460/3 | |
| Approx. Age | 10 | 15 | |
| ASHRAE Service Life | 20 | 20 | |
| Remaining Life | 10 | 5 | |
| Notes | Constant Volume Pump | Constant volume pumps. 3-way valves on air handling units | |

MAJOR EQUIPMENT LIST

Concord Engineering Group

"Meadowview Complex - Psychiatric Hospital"

Condensate Pumps

| | | | |
|----------------------------|---|--|--|
| Tag | CRU - 1 | | |
| Type | Pressure Powered Condensate Pump, Type PP C | | |
| Location | Control Building | | |
| Area Served | Steam Converters for Domestic Water Heater | | |
| Manufacturer | Spirax Sarco | | |
| Qty. | 3 | | |
| Order # | F1157105 | | |
| Serial # | 67612 | | |
| Size | 3 x 2 | | |
| Max Pressure, psig | 125 | | |
| GPM | - | | |
| Approx. Age | 16 | | |
| ASHRAE Service Life | 15 | | |
| Remaining Life | (1) | | |
| Notes | | | |

MAJOR EQUIPMENT LIST
Concord Engineering Group
"Meadowview Complex - Psychiatric Hospital"

Cooling Tower

| Tag | Cooling Tower | | |
|----------------------------|----------------------|--|--|
| Location | Control Room Roof | | |
| Area Served | Chillers | | |
| Manufacturer | BAC | | |
| Qty. | 1 | | |
| Model # | - | | |
| Serial # | - | | |
| Service | Regular | | |
| Nominal Capacity * | 600 | | |
| GPM * | 1,000 | | |
| Ambient Air WB | - | | |
| Number of Cells | 1 | | |
| Fan-1 HP | 20 HP | | |
| Fan-1 Eff | 88.50% | | |
| Fan-2 HP | 7.5 HP | | |
| Fan-2 Eff | 84% | | |
| V/Ph/Hz | 460/3 | | |
| FLA | 26.4, 10.6 Amps | | |
| Approx. Age | 14 | | |
| ASHRAE Service Life | 22 | | |
| Remaining Life | 8 | | |
| Notes | 2 speed fan | | |
| | | | |
| | | | |

* Estimated based on chiller information

MAJOR EQUIPMENT LIST
Concord Engineering Group
"Meadowview Complex - Psychiatric Hospital"

Air Handling Units

| Tag | AHU - 1: Built-up, Dual Duct System | | |
|------------------------|---|---------------|--|
| Unit Type | Hot Deck | Cold Deck | |
| Location | 5th Floor MER | | |
| Area Served | 1 to 4th Floors | | |
| Manufacturer | - | | |
| Model # | - | - | |
| Serial # | - | - | |
| Total Supply Flow, CFM | 55,355 | | |
| Economizer | Air side 100% OA | | |
| Supply Fan HP | 125 HP (SF#1) | | |
| Supply Fan Motor Eff | 95.40% | | |
| Return Fan HP | 40 HP (RF #1) | | |
| Return Fan Motor Eff | 93.00% | | |
| Cooling Type | - | Chilled Water | |
| Cooling Capacity, Mbh | - | 3,230 | |
| Heating Type | Steam* | - | |
| Preheat input, lb/hr | 1276 | - | |
| Heating input, lb/hr | 375 | - | |
| Reheat, lb/hr | 4252 | - | |
| Volts / Phase | 460/3 | 460/3 | |
| Approx. Age | Not known | Not known | |
| ASHRAE Service Life | 15 | 15 | |
| Remaining Life | 0 | 0 | |
| Notes | The system is old. It was retrofitted in 1995 | | |

* Steam supplied to the coils at 50 psig

* 1000 lb/hr steam at 50 psig provides approximately 910 Mbh

MAJOR EQUIPMENT LIST**Concord Engineering Group
"Meadowview Complex - Psychiatric Hospital"****Air Handling Units**

| Tag | AHU-2 | AHU - 3 | |
|-------------------------------|------------------------|----------------------|--|
| Unit Type | Standard | Standard | |
| Location | Control Bldg 2nd Fl. | Control Bldg 2nd Fl. | |
| Area Served | Part 1st and 2nd Floor | Kitchen | |
| Manufacturer | Temtrol | - | |
| Model # | F-CS11 | - | |
| Serial # | 65177 | - | |
| Total Supply Flow, CFM | 4,780 | 26000 | |
| Economizer | Air side 100% OA | None | |
| Supply Fan HP | 5 HP (SF #2) | 10 (SF #3) | |
| Supply Fan Motor Eff | Low | 88.50% | |
| Return Fan HP | - | None | |
| Return Fan Motor Eff | - | - | |
| Cooling Type | Chilled Water | None | |
| Cooling Capacity, Mbh | 350 | - | |
| Heating Type | Steam | Steam | |
| Preheat input, lb/hr | 467 | - | |
| Heating input, lb/hr | | - | |
| Reheat, lb/hr | 258.7 | 2890, 67 (Two zones) | |
| Volts / Phase | 260 (Zones #5 - 12) | 460/3 | |
| Approx. Age | 10 (est) | Not known | |
| ASHRAE Service Life | 15 | 15 | |
| Remaining Life | 5 | 0 | |
| Notes | Newer unit | | |

* Steam supplied to the coils at 50 psig

* 1000 lb/hr steam at 50 psig provides approximately 910 Mbh

MAJOR EQUIPMENT LIST
Concord Engineering Group
"Meadowview Complex - Psychiatric Hospital"

Air Compressor

| Tag | Compressor 1 | Compressor 2, 3 |
|----------------------------|----------------------------------|----------------------------------|
| Type | Triple head, Dual, Reciprocating | Triple head, Dual, Reciprocating |
| Location | Control Bldg 2nd Fl. | Control Bldg 2nd Fl. |
| Area Served | HVAC Actuators | HVAC Actuators |
| Manufacturer | Air Compressor Products, Inc | Air Compressor Products, Inc |
| Qty. | 1 | 2 |
| Model # | C5SB-5 12D 3 | - |
| Serial # | 1195-5653 | - |
| Motor HP | 2 x 5HP | 3 HP Each |
| Motor Efficiency | 82.50% | 82.50% |
| Pressure | 100 | 100 |
| Capacity | 50 | 50 |
| Volts / Phase | 120 | 120 |
| FLA | - | - |
| Approx. Age | 15 | 19 |
| ASHRAE Service Life | 20 | 20 |
| Remaining Life | 5 | 1 |
| Notes | | New 3 HP motors |

MAJOR EQUIPMENT LIST
Concord Engineering Group
"Meadowview Complex - Psychiatric Hospital"

Exhaust Fans and Heating & Ventilation Units

| Tag | EF-2 | EF-3 | EF-4 |
|---------------------|-----------------|-------------------|--------------------|
| Location | 5th Floor MER | 5th Floor MER | 5th Floor MER |
| Area Served | Dishwasher hood | Partial 1st Floor | Kitchen Range Hood |
| Manufacturer | - | - | - |
| Model # / Serial # | - | - | - |
| Heating Coil | None | None | None |
| Capacity (Btu/h) | - | - | - |
| Fan HP | 1.5 HP | 3/4 HP | 7.5 HP |
| Motor Efficiency | Standard | 88.50% | Standard |
| Flow, CFM | 6935 | 3,055 | 24,925 |
| Fan RPM | 664 | 1525 | 459 |
| Volts / Phase | 460/3 | 460/3 | 460/3 |
| Amps | 1.4 | 0.7 | 7.0 |
| Approx. Age | 30 | 30 | 30 |
| ASHRAE Service Life | 15 | 15 | 15 |
| Remaining Life | (15) | (15) | (15) |
| Notes | | | |

| Tag | EF-5 | EF-9 | EF-11 |
|---------------------|--------------------|---------------------|---------------------|
| Location | 5th MER | Control Room 2nd Fl | Control Room 2nd Fl |
| Area Served | Toilet Exhaust Fan | Partial 2nd Floor | Partial 2nd Floor |
| Manufacturer | - | - | - |
| Model # / Serial # | - | - | - |
| Heating Coil | - | - | - |
| Capacity (Btu/h) | - | - | - |
| Fan HP | 5 | 3/4 | 1 |
| Motor Efficiency | 87.50% | 82.00% | 82.50% |
| Flow, CFM | 11050 | 2,500 | 2,250 |
| Fan RPM | 815 | 875 | 1067 |
| Volts / Phase | 460/3 | 460/3 | 460/3 |
| Amps | - | - | - |
| Approx. Age | Not known | Not known | Not known |
| ASHRAE Service Life | 15 | 15 | 15 |
| Remaining Life | 0 | 0 | 0 |
| Notes | | | |

Investment Grade Lighting Audit

CEG Job #: 9C09162

Project: HUDSON COUNTY IMPROVEMENT AUTHORITY ENERGY AUDIT

Building - 10 Psychiatric Hospital

KWH COST: \$0.102

Address: 595 County Ave.

Secaucus, NJ. 07094

Building SF: 63,775

ECM #1: Lighting Upgrade - General

| EXISTING LIGHTING | | | | | | | | | | PROPOSED LIGHTING | | | | | | | SAVINGS | | | | | |
|---------------------|--------------------------|--------------|-----------|-----------|--|------------|----------|-----------------|----------------|-------------------|-----------|--|------------|----------|-----------------|----------------|-----------------------|------------|------------|----------------|-------------------|-----------------------|
| CEG Type | Fixture Location | Yearly Usage | No. Fixts | No. Lamps | Fixture Type | Fixt Watts | Total kW | kWh/Yr Fixtures | Yearly \$ Cost | No. Fixts | No. Lamps | Retro-Unit Description | Watts Used | Total kW | kWh/Yr Fixtures | Yearly \$ Cost | Unit Cost (INSTALLED) | Total Cost | kW Savings | kWh/Yr Savings | Yearly \$ Savings | Yearly Simple Payback |
| Control Room | | | | | | | | | | | | | | | | | | | | | | |
| 126.34 | Main Equipment Area | 8760 | 5 | 2 | 2' Channel, (2) 20w T12, Mag. Ballast, Pendant Mnt., No Lens | 42 | 0.21 | 1,839.6 | \$187.64 | 5 | 2 | 2' Channel, (2) 17w T8, Elect. Ballast, Pendant Mnt., No Lens | 33 | 0.17 | 1445.4 | \$147.43 | \$70.00 | \$350.00 | 0.05 | 394.2 | \$40.21 | 8.70 |
| 121.34 | Main Equipment Area | 8760 | 5 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., No Lens | 75 | 0.38 | 3,285.0 | \$335.07 | 5 | 2 | 2 Lamp, 32w T8, Elect. Ballast; retrofit | 58 | 0.29 | 2540.4 | \$259.12 | \$100.00 | \$500.00 | 0.09 | 744.6 | \$75.95 | 6.58 |
| 128.31 | Main Equipment Area | 8760 | 2 | 2 | 8 Foot, 2-Lamp, 75w T12, Mag. Ballast, Pendant Mnt., Prismatic | 142 | 0.28 | 2,487.8 | \$253.76 | 2 | 4 | (2) 8' Lamps to (4) 4' Lamps; 4 Lamp, 32w T8, Elect. Ballast; retrofit | 104 | 0.21 | 1822.08 | \$185.85 | \$100.00 | \$200.00 | 0.08 | 665.76 | \$67.91 | 2.95 |
| 305 | Main Equipment Area | 8760 | 5 | 1 | 1 Lamp Incandescent, 150 Watt Bulbs, Surface Mounted, Direct | 150 | 0.75 | 6,570.0 | \$670.14 | 5 | 1 | 42 W CFL Lamp | 42 | 0.21 | 1839.6 | \$187.64 | \$20.00 | \$100.00 | 0.54 | 4730.4 | \$482.50 | 0.21 |
| 142.21 | Staff Office | 8760 | 2 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.34 | 3,013.4 | \$307.37 | 2 | 3 | 3 Lamp, 32w T8, Elect. Ballast; retrofit | 86 | 0.17 | 1506.72 | \$153.69 | \$100.00 | \$200.00 | 0.17 | 1506.72 | \$153.69 | 1.30 |
| 113.11 | Staff Office | 8760 | 4 | 1 | 3 Foot, 1-Lamp, T12, Magnetic Ballast, Surface Mounted, Prismatic Lens | 47 | 0.19 | 1,646.9 | \$167.98 | 4 | 1 | 3' - 1-Lamp 25W T-8 Prismatic Lens / Elect Ballast; Metalux M/N SNF125 | 23 | 0.09 | 805.92 | \$82.20 | \$119.00 | \$476.00 | 0.10 | 840.96 | \$85.78 | 5.55 |
| 142.21 | Staff Lounge | 8760 | 4 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.69 | 6,026.9 | \$614.74 | 4 | 3 | 3 Lamp, 32w T8, Elect. Ballast; retrofit | 86 | 0.34 | 3013.44 | \$307.37 | \$100.00 | \$400.00 | 0.34 | 3013.44 | \$307.37 | 1.30 |
| 127.21 | Staff Lounge | 8760 | 1 | 2 | 2x2, 2-Lamp, 34w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 66 | 0.07 | 578.2 | \$58.97 | 1 | 3 | 3 Lamp, 17w T8, Elect. Ballast, Specular Reflector; retrofit | 48 | 0.05 | 420.48 | \$42.89 | \$100.00 | \$100.00 | 0.02 | 157.68 | \$16.08 | 6.22 |
| 122.21 | Kitchen Machine Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., No Lens | 75 | 0.15 | 390.0 | \$39.78 | 2 | 2 | 2 Lamp, 32w T8, Elect. Ballast; retrofit | 58 | 0.12 | 301.6 | \$30.76 | \$100.00 | \$200.00 | 0.03 | 88.4 | \$9.02 | 22.18 |
| 122.21 | Bathroom in Staff Lounge | 2600 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., No Lens | 75 | 0.08 | 195.0 | \$19.89 | 1 | 2 | 2 Lamp, 32w T8, Elect. Ballast; retrofit | 58 | 0.06 | 150.8 | \$15.38 | \$100.00 | \$100.00 | 0.02 | 44.2 | \$4.51 | 22.18 |
| 121.21 | Bathroom in Staff Lounge | 2600 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 75 | 0.08 | 195.0 | \$19.89 | 1 | 2 | 2 Lamp, 32w T8, Elect. Ballast; retrofit | 58 | 0.06 | 150.8 | \$15.38 | \$100.00 | \$100.00 | 0.02 | 44.2 | \$4.51 | 22.18 |
| 121.31 | 2nd Floor | 8760 | 6 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., Prismatic Lens | 75 | 0.45 | 3,942.0 | \$402.08 | 6 | 2 | 2 Lamp, 32w T8, Elect. Ballast; retrofit | 58 | 0.35 | 3048.48 | \$310.94 | \$100.00 | \$600.00 | 0.10 | 893.52 | \$91.14 | 6.58 |

Investment Grade Lighting Audit

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-----------------------|------|------|---|---|-------------------------|------|----------|------------|---------|---|---|-----------------|------|---------|----------|---------|----------|----------|---------|----------|---------|
| 305 | 2nd Floor | 8760 | 8 | 1 | 1 Lamp Incandescent, 150 Watt Bulbs, Surface Mounted, Direct | 150 | 1.20 | 10,512.0 | \$1,072.22 | 8 | 1 | 42 W CFL Lamp | 42 | 0.34 | 2943.36 | \$300.22 | \$20.00 | \$160.00 | 0.86 | 7568.64 | \$772.00 | 0.21 |
| First Floor | | | | | | | | | | | | | | | | | | | | | | |
| 116.14 | Elevator Car 1 | 8760 | 6 | 1 | 2' Channel, (1) 20w T12, Mag. Ballast, Pendant Mnt., No Lens | 22 | 0.13 | 1,156.3 | \$117.94 | 6 | 1 | 2' Channel, (1) 17w T8, Elect. Ballast, Pendant Mnt., No Lens | 17 | 0.10 | 893.52 | \$91.14 | \$60.00 | \$360.00 | 0.03 | 262.8 | \$26.81 | 13.43 |
| 116.14 | Elevator Car 2 | 8760 | 6 | 1 | 2' Channel, (1) 20w T12, Mag. Ballast, Pendant Mnt., No Lens | 22 | 0.13 | 1,156.3 | \$117.94 | 6 | 1 | 2' Channel, (1) 17w T8, Elect. Ballast, Pendant Mnt., No Lens | 17 | 0.10 | 893.52 | \$91.14 | \$60.00 | \$360.00 | 0.03 | 262.8 | \$26.81 | 13.43 |
| 242.21 | 107 Housekeeping | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 108 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | NW1 Corridor | 8760 | 6 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.35 | 3,048.5 | \$310.94 | 6 | 0 | No Change | 58 | 0.35 | 3048.48 | \$310.94 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.04 | 315.4 | \$32.17 | 2 | 1 | Exit Sign - LED | 2 | 0.00 | 35.04 | \$3.57 | \$65.00 | \$130.00 | 0.03 | 280.32 | \$28.59 |
| 900 | 110 Telephone Room | 520 | 2 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.06 | 31.2 | \$3.18 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 109 Confidential Aide | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 112/13 Personnel | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 112 Restroom | 520 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 30.2 | \$3.08 | 1 | 0 | No Change | 58 | 0.06 | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | Closet | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | \$1.59 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 114 Personnel | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 115/117/118 Offices | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.65 | 1,684.8 | \$171.85 | 6 | 0 | No Change | 108 | 0.65 | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 115 Restroom | 520 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 30.2 | \$3.08 | 1 | 0 | No Change | 58 | 0.06 | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Closet | 520 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 30.2 | \$3.08 | 1 | 0 | No Change | 58 | 0.06 | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 125 Medical Director | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

| | | | | | | | | | | | | | | | | | | | | | | |
|--------|------------------------|------|----|---|---|-----|------|----------|------------|----|---|---------------------------|-----|------|----------|------------|---------|----------|------|---------|----------|------|
| 242.21 | 126 Medical Director | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 119 Storage | 520 | 1 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.06 | 30.2 | \$3.08 | 1 | 0 | No Change | 58 | 0.06 | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | \$1.59 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 120 Storage | 520 | 1 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.06 | 30.2 | \$3.08 | 1 | 0 | No Change | 58 | 0.06 | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | \$1.59 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 123 Janitor's Closet | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | \$1.59 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.11 | N1 Corridor | 8760 | 32 | 2 | 2-Lamp, T8, Electronic Ballast, Surface Mounted, Prismatic Lens | 58 | 1.86 | 16,258.6 | \$1,658.37 | 32 | 0 | No Change | 58 | 1.86 | 16258.56 | \$1,658.37 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 11 | 2 | Exit Sign - Fluorescent | 18 | 0.20 | 1,734.5 | \$176.92 | 11 | 1 | Exit Sign - LED | 2 | 0.02 | 192.72 | \$19.66 | \$65.00 | \$715.00 | 0.18 | 1541.76 | \$157.26 | 4.55 |
| 242.21 | 130 Secretarial Office | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 2 | Delamp Fixture - Over Lit | 58 | 0.23 | 603.2 | \$61.53 | \$40.00 | \$160.00 | 0.20 | 520 | \$53.04 | 3.02 |
| 221.21 | 130 Restrooms and Hall | 2600 | 3 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.17 | 452.4 | \$46.14 | 3 | 0 | No Change | 58 | 0.17 | 452.4 | \$46.14 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 128 Administrator | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.65 | 1,684.8 | \$171.85 | 6 | 0 | No Change | 108 | 0.65 | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 128 Restroom | 2600 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 78.0 | \$7.96 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 134 Quality Assurance | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.23 | 603.2 | \$61.53 | 4 | 0 | No Change | 58 | 0.23 | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 134 Restroom | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | \$1.59 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 134 Closet | 520 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 30.2 | \$3.08 | 1 | 0 | No Change | 58 | 0.06 | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 135 Storage | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | \$1.59 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 139 Clinical Director | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.23 | 603.2 | \$61.53 | 4 | 0 | No Change | 58 | 0.23 | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 140 Conference Room | 2600 | 6 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.35 | 904.8 | \$92.29 | 6 | 0 | No Change | 58 | 0.35 | 904.8 | \$92.29 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 141 MIS | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------|-----------------------|------|----|---|---|-----|------|---------|----------|----|---|-----------------|-----|------|---------|----------|---------|----------|------|--------|---------|------|
| 221.21 | 144 Restroom | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 143 On Call | 8760 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 1,892.2 | \$193.00 | 2 | 0 | No Change | 108 | 0.22 | 1892.16 | \$193.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Restroom/Shower | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | | 2600 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 78.0 | \$7.96 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 149 Medical Records | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 149 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | Lobby | 8760 | 16 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.93 | 8,129.3 | \$829.19 | 16 | 0 | No Change | 58 | 0.93 | 8129.28 | \$829.19 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 6 | 2 | Exit Sign - Fluorescent | 18 | 0.11 | 946.1 | \$96.50 | 6 | 1 | Exit Sign - LED | 2 | 0.01 | 105.12 | \$10.72 | \$65.00 | \$390.00 | 0.10 | 840.96 | \$85.78 | 4.55 |
| 222.21 | 150 Finance | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.23 | 603.2 | \$61.53 | 4 | 0 | No Change | 58 | 0.23 | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 152 Finance | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 151 Computer Training | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | S1 Corridor | 8760 | 5 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.29 | 2,540.4 | \$259.12 | 5 | 0 | No Change | 58 | 0.29 | 2540.4 | \$259.12 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.04 | 315.4 | \$32.17 | 2 | 1 | Exit Sign - LED | 2 | 0.00 | 35.04 | \$3.57 | \$65.00 | \$130.00 | 0.03 | 280.32 | \$28.59 | 4.55 |
| 242.21 | 151 Transportation | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 151 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 153 Art Therapy | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 172 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------|----------------------|------|----|---|---|-----|------|---------|----------|----|---|-----------------|-----|------|---------|----------|---------|---------|------|--------|---------|------|
| 242.21 | 156 Library | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 157 Gym | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.65 | 1,684.8 | \$171.85 | 6 | 0 | No Change | 108 | 0.65 | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 161 Teaching Kitchen | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Storage | 520 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.12 | 60.3 | \$6.15 | 2 | 0 | No Change | 58 | 0.12 | 60.32 | \$6.15 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 167 Locker Room | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | | 2600 | 5 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.29 | 754.0 | \$76.91 | 5 | 0 | No Change | 58 | 0.29 | 754 | \$76.91 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 166 Server Room | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.11 | 280.8 | \$28.64 | 1 | 0 | No Change | 108 | 0.11 | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 170 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | W1 Corridor | 8760 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 1,016.2 | \$103.65 | 2 | 0 | No Change | 58 | 0.12 | 1016.16 | \$103.65 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 1 | 2 | Exit Sign - Fluorescent | 18 | 0.02 | 157.7 | \$16.08 | 1 | 1 | Exit Sign - LED | 2 | 0.00 | 17.52 | \$1.79 | \$65.00 | \$65.00 | 0.02 | 140.16 | \$14.30 | 4.55 |
| 222.21 | 165 Waiting Room | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.23 | 603.2 | \$61.53 | 4 | 0 | No Change | 58 | 0.23 | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 165 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 165 Storage | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | \$1.59 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 162 Treatment Room | 2600 | 10 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 1.08 | 2,808.0 | \$286.42 | 10 | 0 | No Change | 108 | 1.08 | 2808 | \$286.42 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|---------------------|-----------------------|------|----|---|---|-----|------|---------|------------|----|---|--|-----|------|---------|----------|----------|------------|------|--------|----------|-------|
| 242.21 | Library | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| Kitchen | | | | | | | | | | | | | | | | | | | | | | |
| 142.21 | Dining | 2600 | 3 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.52 | 1,341.6 | \$136.84 | 3 | 3 | 3 Lamp, 32w T8, Elect. Ballast; retrofit | 86 | 0.26 | 670.8 | \$68.42 | \$100.00 | \$300.00 | 0.26 | 670.8 | \$68.42 | 4.38 |
| 142.21 | Break Room | 2600 | 2 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.34 | 894.4 | \$91.23 | 2 | 3 | 3 Lamp, 32w T8, Elect. Ballast; retrofit | 86 | 0.17 | 447.2 | \$45.61 | \$100.00 | \$200.00 | 0.17 | 447.2 | \$45.61 | 4.38 |
| 122.21 | Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., No Lens | 75 | 0.08 | 195.0 | \$19.89 | 1 | 2 | 2 Lamp, 32w T8, Elect. Ballast; retrofit | 58 | 0.06 | 150.8 | \$15.38 | \$100.00 | \$100.00 | 0.02 | 44.2 | \$4.51 | 22.18 |
| 142.21 | Wash Area | 2600 | 7 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 1.20 | 3,130.4 | \$319.30 | 7 | 3 | 3 Lamp, 32w T8, Elect. Ballast; retrofit | 86 | 0.60 | 1565.2 | \$159.65 | \$100.00 | \$700.00 | 0.60 | 1565.2 | \$159.65 | 4.38 |
| 142.21 | Office | 2600 | 1 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.17 | 447.2 | \$45.61 | 1 | 3 | 3 Lamp, 32w T8, Elect. Ballast; retrofit | 86 | 0.09 | 223.6 | \$22.81 | \$100.00 | \$100.00 | 0.09 | 223.6 | \$22.81 | 4.38 |
| 142.21 | Kitchen | 2600 | 22 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 3.78 | 9,838.4 | \$1,003.52 | 22 | 3 | 3 Lamp, 32w T8, Elect. Ballast; retrofit | 86 | 1.89 | 4919.2 | \$501.76 | \$100.00 | \$2,200.00 | 1.89 | 4919.2 | \$501.76 | 4.38 |
| 127.21 | | 2600 | 2 | 2 | 2x2, 2-Lamp, 34w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 66 | 0.13 | 343.2 | \$35.01 | 2 | 3 | 3 Lamp, 17w T8, Elect. Ballast, Specular Reflector; retrofit | 48 | 0.10 | 249.6 | \$25.46 | \$100.00 | \$200.00 | 0.04 | 93.6 | \$9.55 | 20.95 |
| 121.21 | Exhaust Hoods | 2600 | 4 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 75 | 0.30 | 780.0 | \$79.56 | 4 | 2 | 2 Lamp, 32w T8, Elect. Ballast; retrofit | 58 | 0.23 | 603.2 | \$61.53 | \$100.00 | \$400.00 | 0.07 | 176.8 | \$18.03 | 22.18 |
| 121.21 | Chemical Storage Room | 2600 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 75 | 0.08 | 195.0 | \$19.89 | 1 | 2 | 2 Lamp, 32w T8, Elect. Ballast; retrofit | 58 | 0.06 | 150.8 | \$15.38 | \$100.00 | \$100.00 | 0.02 | 44.2 | \$4.51 | 22.18 |
| 141.21 | Office | 2600 | 2 | 4 | 1x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.34 | 894.4 | \$91.23 | 2 | 3 | 3 Lamp, 32w T8, Elect. Ballast; retrofit | 86 | 0.17 | 447.2 | \$45.61 | \$100.00 | \$200.00 | 0.17 | 447.2 | \$45.61 | 4.38 |
| 141.11 | Storage #1 | 2600 | 5 | 4 | 1x4, 4-Lamp, 40w T12, Mag. Ballast, Surface Mnt., Prismatic Lens | 172 | 0.86 | 2,236.0 | \$228.07 | 5 | 3 | 3 Lamp, 32w T8, Elect. Ballast; retrofit | 86 | 0.43 | 1118 | \$114.04 | \$100.00 | \$500.00 | 0.43 | 1118 | \$114.04 | 4.38 |
| 603 | Kitchen | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.04 | 315.4 | \$32.17 | 2 | 1 | Exit Sign - LED | 2 | 0.00 | 35.04 | \$3.57 | \$65.00 | \$130.00 | 0.03 | 280.32 | \$28.59 | 4.55 |
| 600 | Kitchen | 8760 | 2 | 1 | Exit Sign - LED | 10 | 0.02 | 175.2 | \$17.87 | 2 | 0 | No Change | 10 | 0.02 | 175.2 | \$17.87 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| Second Floor | | | | | | | | | | | | | | | | | | | | | | |
| 232.21 | N2 Corridor | 8760 | 7 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.57 | 5,028.2 | \$512.88 | 7 | 0 | No Change | 82 | 0.57 | 5028.24 | \$512.88 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.04 | 315.4 | \$32.17 | 2 | 1 | Exit Sign - LED | 2 | 0.00 | 35.04 | \$3.57 | \$65.00 | \$130.00 | 0.03 | 280.32 | \$28.59 | 4.55 |

Investment Grade Lighting Audit

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|--------|---|------|---|---|--|-----|------|---------|----------|---|---|-----------|-----|------|--------|----------|--------|--------|------|---|--------|------|
| 242.21 | 204 Social Services | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 205/206 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 207/208 Patient Room & Bathroom | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 211 Consultation Room | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.32 | 842.4 | \$85.92 | 3 | 0 | No Change | 108 | 0.32 | 842.4 | \$85.92 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 210 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 209/212 Patient Room & Bathroom | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 213 Psychiatry Office | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.32 | 842.4 | \$85.92 | 3 | 0 | No Change | 108 | 0.32 | 842.4 | \$85.92 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 214 Bathtub | 8760 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 508.1 | \$51.82 | 1 | 0 | No Change | 58 | 0.06 | 508.08 | \$51.82 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 217/218 Patient Room & Bathroom with Shower | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.05 | 119.6 | \$12.20 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------|---|------|----|---|---|-----|------|---------|----------|----|---|-----------------|-----|------|---------|----------|---------|----------|------|--------|---------|------|
| 242.21 | 216/215 Patient Room & Bathroom with Shower | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.05 | 119.6 | \$12.20 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | Custodial Closet | 520 | 2 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.06 | 31.2 | \$3.18 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 221 Custodial Closet | 520 | 2 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.06 | 31.2 | \$3.18 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 220/219 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 222 Dining Room | 2600 | 9 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.52 | 1,357.2 | \$138.43 | 9 | 0 | No Change | 58 | 0.52 | 1357.2 | \$138.43 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 224 Day Room | 2600 | 8 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.86 | 2,246.4 | \$229.13 | 8 | 0 | No Change | 108 | 0.86 | 2246.4 | \$229.13 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.04 | 315.4 | \$32.17 | 2 | 1 | Exit Sign - LED | 2 | 0.00 | 35.04 | \$3.57 | \$65.00 | \$130.00 | 0.03 | 280.32 | \$28.59 | 4.55 |
| 232 | Lobby | 8760 | 11 | 3 | 1x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.90 | 7,901.5 | \$805.96 | 11 | 0 | No Change | 82 | 0.90 | 7901.52 | \$805.96 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 1 | 2 | Exit Sign - Fluorescent | 18 | 0.02 | 157.7 | \$16.08 | 1 | 1 | Exit Sign - LED | 2 | 0.00 | 17.52 | \$1.79 | \$65.00 | \$65.00 | 0.02 | 140.16 | \$14.30 | 4.55 |
| 242.21 | Nurse's Station | 8760 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.32 | 2,838.2 | \$289.50 | 3 | 0 | No Change | 108 | 0.32 | 2838.24 | \$289.50 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Valuables | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | Medication Room | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.11 | 280.8 | \$28.64 | 1 | 0 | No Change | 108 | 0.11 | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Quiet Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Quiet Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | Restroom | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | Quiet Room Hall | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.05 | 119.6 | \$12.20 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------|---|------|---|---|---|-----|------|---------|----------|---|---|-----------------|-----|------|---------|----------|---------|----------|------|--------|---------|------|
| 232.21 | S2 Corridor | 8760 | 7 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.57 | 5,028.2 | \$512.88 | 7 | 0 | No Change | 82 | 0.57 | 5028.24 | \$512.88 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 3 | 2 | Exit Sign - Fluorescent | 18 | 0.05 | 473.0 | \$48.25 | 3 | 1 | Exit Sign - LED | 2 | 0.01 | 52.56 | \$5.36 | \$65.00 | \$195.00 | 0.05 | 420.48 | \$42.89 | 4.55 |
| 242.21 | 236/231 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 235/238 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 237 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 241/243 Patient Room & Bathroom | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 240/239 Patient Room & Bathroom | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 246/245 Patient Room & Bathroom with Shower | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.05 | 119.6 | \$12.20 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 247/242 Patient | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------|---|------|----|---|--|-----|------|----------|------------|----|---|-----------------|-----|------|---------|------------|---------|----------|------|--------|---------|------|
| 920 | 241/242 Patient Room & Bathroom with Shower | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 248 Therapeutic Services | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 244 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 225 Staff Restroom | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.11 | 280.8 | \$28.64 | 1 | 0 | No Change | 108 | 0.11 | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 227 | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.65 | 1,684.8 | \$171.85 | 6 | 0 | No Change | 108 | 0.65 | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Restrooms | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 231.21 | W2 Corridor | 8760 | 15 | 3 | 1x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 1.23 | 10,774.8 | \$1,099.03 | 15 | 0 | No Change | 82 | 1.23 | 10774.8 | \$1,099.03 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 6 | 2 | Exit Sign - Fluorescent | 18 | 0.11 | 946.1 | \$96.50 | 6 | 1 | Exit Sign - LED | 2 | 0.01 | 105.12 | \$10.72 | \$65.00 | \$390.00 | 0.10 | 840.96 | \$85.78 | 4.55 |
| 222.21 | 276 Dining Room | 2600 | 4 | 2 | 2x4, 2-Lamp, 32w T8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.23 | 603.2 | \$61.53 | 4 | 0 | No Change | 58 | 0.23 | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | Clean Linen | 2600 | 2 | 2 | 2x4, 2-Lamp, 32w T8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 273/274 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 272 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 271 Activity Room | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.65 | 1,684.8 | \$171.85 | 6 | 0 | No Change | 108 | 0.65 | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------|---------------------------------|------|---|---|--|-----|------|---------|----------|---|---|-----------|-----|------|--------|----------|--------|--------|------|---|--------|------|
| 920 | 270/269 Patient Room & Bathroom | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 267 Soiled Linen | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.11 | 280.8 | \$28.64 | 1 | 0 | No Change | 108 | 0.11 | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 266/265 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.05 | 119.6 | \$12.20 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 259/260 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.05 | 119.6 | \$12.20 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 258/263 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 256 Director | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 257 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 254 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 255 Office | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | Restroom | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | Storage | 650 | 2 | 2 | 2x4, 2-Lamp, 32w T8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 75.4 | \$7.69 | 2 | 0 | No Change | 58 | 0.12 | 75.4 | \$7.69 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------------------|---|------|---|---|--|-----|------|---------|----------|---|---|-----------------|-----|------|---------|----------|---------|----------|------|--------|---------|------|
| 242.21 | Pantry | 650 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.11 | 70.2 | \$7.16 | 1 | 0 | No Change | 108 | 0.11 | 70.2 | \$7.16 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 250 Mop Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 249 Laundry | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.31 | West Stairway | 8760 | 6 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.35 | 3,048.5 | \$310.94 | 6 | 0 | No Change | 58 | 0.35 | 3048.48 | \$310.94 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| Third Floor | | | | | | | | | | | | | | | | | | | | | | |
| 232.21 | N3 Corridor | 8760 | 7 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.57 | 5,028.2 | \$512.88 | 7 | 0 | No Change | 82 | 0.57 | 5028.24 | \$512.88 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.04 | 315.4 | \$32.17 | 2 | 1 | Exit Sign - LED | 2 | 0.00 | 35.04 | \$3.57 | \$65.00 | \$130.00 | 0.03 | 280.32 | \$28.59 | 4.55 |
| 242.21 | 305 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 306/308 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 307/311 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 309 Consultation Room | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.32 | 842.4 | \$85.92 | 3 | 0 | No Change | 108 | 0.32 | 842.4 | \$85.92 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 310 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 313/312 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------|---------------------------------|------|----|---|---|-----|------|---------|----------|----|---|-----------------|-----|------|---------|----------|---------|----------|------|--------|---------|------|
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 314 Bath tub | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 317/315 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 318/319 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 359 Dining Room | 2600 | 9 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.52 | 1,357.2 | \$138.43 | 9 | 0 | No Change | 58 | 0.52 | 1357.2 | \$138.43 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 321/320 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 323 Day Room | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 324 Day Room | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 232.21 | Lobby | 8760 | 10 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.82 | 7,183.2 | \$732.69 | 10 | 0 | No Change | 82 | 0.82 | 7183.2 | \$732.69 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | | 8760 | 3 | 2 | Exit Sign - Fluorescent | 18 | 0.05 | 473.0 | \$48.25 | 3 | 1 | Exit Sign - LED | 2 | 0.01 | 52.56 | \$5.36 | \$65.00 | \$195.00 | 0.05 | 420.48 | \$42.89 | 4.55 |
| 242.21 | Nurse's Station | 8760 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.32 | 2,838.2 | \$289.50 | 3 | 0 | No Change | 108 | 0.32 | 2838.24 | \$289.50 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Valuables | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------|---|------|---|---|--|-----|------|---------|----------|---|---|-----------|-----|------|--------|----------|--------|--------|------|---|--------|------|
| 242.21 | Medication Room | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.11 | 280.8 | \$28.64 | 1 | 0 | No Change | 108 | 0.11 | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 329 Seclusion Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 329 Hall & Restroom | 2600 | 3 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.07 | 179.4 | \$18.30 | 3 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 336/331 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 335/338 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 337 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 340/339 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 341/343 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 344 Shower | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.05 | 119.6 | \$12.20 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 346/345 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|---------------------|---|------|---|---|--|-----|------|---------|----------|---|---|-----------------|-----|------|---------|----------|---------|----------|------|--------|---------|------|
| 242.21 | 347/342 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 348 Therapy | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 232.21 | S3 Corridor | 8760 | 6 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.49 | 4,309.9 | \$439.61 | 6 | 0 | No Change | 82 | 0.49 | 4309.92 | \$439.61 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.04 | 315.4 | \$32.17 | 2 | 1 | Exit Sign - LED | 2 | 0.00 | 35.04 | \$3.57 | \$65.00 | \$130.00 | 0.03 | 280.32 | \$28.59 | 4.55 |
| 232.21 | W3 Corridor | 8760 | 6 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.49 | 4,309.9 | \$439.61 | 6 | 0 | No Change | 82 | 0.49 | 4309.92 | \$439.61 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | | 8760 | 4 | 2 | Exit Sign - Fluorescent | 18 | 0.07 | 630.7 | \$64.33 | 4 | 1 | Exit Sign - LED | 2 | 0.01 | 70.08 | \$7.15 | \$65.00 | \$260.00 | 0.06 | 560.64 | \$57.19 | 4.55 |
| 242.21 | 325 Staff Restroom | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.11 | 280.8 | \$28.64 | 1 | 0 | No Change | 108 | 0.11 | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 353 Activity Room | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.65 | 1,684.8 | \$171.85 | 6 | 0 | No Change | 108 | 0.65 | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 358 Office | 2600 | 2 | 2 | 2x4, 2-Lamp, 32w T8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 354 MICA | 2600 | 4 | 2 | 2x4, 2-Lamp, 32w T8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.23 | 603.2 | \$61.53 | 4 | 0 | No Change | 58 | 0.23 | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.11 | 350 Clean Linen | 2600 | 3 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.17 | 452.4 | \$46.14 | 3 | 0 | No Change | 58 | 0.17 | 452.4 | \$46.14 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | Laundry | 2600 | 2 | 2 | 2x4, 2-Lamp, 32w T8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 349 Staff Lounge | 2600 | 3 | 2 | 2x4, 2-Lamp, 32w T8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.17 | 452.4 | \$46.14 | 3 | 0 | No Change | 58 | 0.17 | 452.4 | \$46.14 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 351 Soiled Linen | 2600 | 3 | 2 | 2x4, 2-Lamp, 32w T8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.17 | 452.4 | \$46.14 | 3 | 0 | No Change | 58 | 0.17 | 452.4 | \$46.14 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| Fourth Floor | | | | | | | | | | | | | | | | | | | | | | |
| 232.21 | N4 Corridor | 8760 | 7 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.57 | 5,028.2 | \$512.88 | 7 | 0 | No Change | 82 | 0.57 | 5028.24 | \$512.88 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.04 | 315.4 | \$32.17 | 2 | 1 | Exit Sign - LED | 2 | 0.00 | 35.04 | \$3.57 | \$65.00 | \$130.00 | 0.03 | 280.32 | \$28.59 | 4.55 |

Investment Grade Lighting Audit

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|--------|---|------|---|---|---|-----|------|---------|----------|---|---|-----------|-----|------|--------|----------|--------|--------|------|---|--------|------|
| 242.21 | 405 Linen Storage | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 406/407 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 408/411 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 409 Consultation Room | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.32 | 842.4 | \$85.92 | 3 | 0 | No Change | 108 | 0.32 | 842.4 | \$85.92 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 410 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 415 Consultation Room | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.32 | 842.4 | \$85.92 | 3 | 0 | No Change | 108 | 0.32 | 842.4 | \$85.92 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 413/412 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 414 Bathroom | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 417/416 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------|---|---------|-----|---|--|--------------------------------------|------|---------|----------|--------|---|-----------------|-----------|------|---------|----------|---------|----------|--------|--------|--------|--------|---------|
| 920 | 418/420 Patient Room & Bathroom | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 242.21 | 422/419 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 910 | | Storage | 520 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 12.0 | \$1.22 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 421 Janitor's Closet | 520 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 12.0 | \$1.22 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 242.21 | 423 Day Room | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 456 Dining Room | 2600 | 9 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.97 | 2,527.2 | \$257.77 | 9 | 0 | No Change | 108 | 0.97 | 2527.2 | \$257.77 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 232.21 | Lobby | 8760 | 10 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.82 | 7,183.2 | \$732.69 | 10 | 0 | No Change | 82 | 0.82 | 7183.2 | \$732.69 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | | 8760 | 3 | 2 | Exit Sign - Fluorescent | 18 | 0.05 | 473.0 | \$48.25 | 3 | 1 | Exit Sign - LED | 2 | 0.01 | 52.56 | \$5.36 | \$65.00 | \$195.00 | \$0.00 | \$0.00 | 0.05 | 420.48 | \$42.89 |
| 242.21 | Nurse's Station | 8760 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.32 | 2,838.2 | \$289.50 | 3 | 0 | No Change | 108 | 0.32 | 2838.24 | \$289.50 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | Valuables | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | Medication Room | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.11 | 280.8 | \$28.64 | 1 | 0 | No Change | 108 | 0.11 | 280.8 | \$28.64 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 424 Day Room | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.21 | 429 Seclusion Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 429 Hall & Restroom | 2600 | 3 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.07 | 179.4 | \$18.30 | 3 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 242.21 | 436/431 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |

Investment Grade Lighting Audit

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|--------|---|------|---|---|---|-----|------|---------|----------|---|---|-----------|-----|------|--------|----------|--------|--------|------|---|--------|------|
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 435/438 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 437 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 440/439 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 441/443 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 444 Shower | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.05 | 119.6 | \$12.20 | 2 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 446/445 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 448 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.22 | 561.6 | \$57.28 | 2 | 0 | No Change | 108 | 0.22 | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 447/442 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.43 | 1,123.2 | \$114.57 | 4 | 0 | No Change | 108 | 0.43 | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.01 | 42.3 | \$4.31 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.02 | 59.8 | \$6.10 | 1 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|---------------|---------------------------|------|-----|---|--|-----|-------|---------|----------|-----|---|--|------|--------|----------|----------|----------|----------|-------|---------|---------|-------|
| 232.21 | W4 Corridor | 8760 | 5 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.41 | 3,591.6 | \$366.34 | 5 | 0 | No Change | 82 | 0.41 | 3591.6 | \$366.34 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | | 8760 | 4 | 2 | Exit Sign - Fluorescent | 18 | 0.07 | 630.7 | \$64.33 | 4 | 1 | Exit Sign - LED | 2 | 0.01 | 70.08 | \$7.15 | \$65.00 | \$260.00 | 0.06 | 560.64 | \$57.19 | 4.55 |
| 222.21 | 428 Staff Restroom | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.21 | 452 Activity Room | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.65 | 1,684.8 | \$171.85 | 6 | 0 | No Change | 108 | 0.65 | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | Clean Linen | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 455 Office | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.23 | 603.2 | \$61.53 | 4 | 0 | No Change | 58 | 0.23 | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | 450 Soiled Linen | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.12 | 301.6 | \$30.76 | 2 | 0 | No Change | 58 | 0.12 | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.21 | Laundry | 2600 | 1 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.06 | 150.8 | \$15.38 | 1 | 0 | No Change | 58 | 0.06 | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 307 | 449 Mechanical Room | 1300 | 8 | 1 | Pendant Mnt. Industrial Reflector, (1) 100w A19 | 100 | 0.80 | 1,040.0 | \$106.08 | 8 | 1 | 23w CFL Lamp | 23 | 0.18 | 239.2 | \$24.40 | \$20.00 | \$160.00 | 0.62 | 800.8 | \$81.68 | 1.96 |
| 308 | 5th Floor Mechanical Room | 1300 | 7 | 1 | Pendant Mnt. Industrial Reflector, (1) 46w CFL Lamp | 46 | 0.32 | 418.6 | \$42.70 | 7 | 0 | No Change | 0 | 0.00 | 0 | \$0.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 121.11 | Elevator Mechanical Room | 1300 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Surface Mnt., Prismatic Lens | 75 | 0.08 | 97.5 | \$9.95 | 1 | 2 | 2 Lamp, 32w T8, Elect. Ballast; retrofit | 58 | 0.06 | 75.4 | \$7.69 | \$100.00 | \$100.00 | 0.02 | 22.1 | \$2.25 | 44.36 |
| 221.11 | | 1300 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.06 | 75.4 | \$7.69 | 1 | 0 | No Change | 58 | 0.06 | 75.4 | \$7.69 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.11 | Stairwell #1 | 8760 | 9 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.52 | 4,572.7 | \$466.42 | 9 | 0 | No Change | 58 | 0.52 | 4572.72 | \$466.42 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.11 | Stairwell #2 | 8760 | 9 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.52 | 4,572.7 | \$466.42 | 9 | 0 | No Change | 58 | 0.52 | 4572.72 | \$466.42 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.11 | Stairwell #3 | 8760 | 10 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.58 | 5,080.8 | \$518.24 | 10 | 0 | No Change | 58 | 0.58 | 5080.8 | \$518.24 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 500 | Exterior | 3600 | 4 | 1 | 1x1 , 1-Lamp Metal Halide | 94 | 0.38 | 1,353.6 | \$138.07 | 4 | 0 | No Change | 94 | 0.38 | 1353.6 | \$138.07 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 404 | | 3600 | 3 | 1 | 1-Lamp Halogens, Direct Lighting | 75 | 0.23 | 810.0 | \$82.62 | 3 | 0 | No Change | 75 | 0.23 | 810 | \$82.62 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 128.16 | | 8760 | 2 | 2 | 8 Foot, 2-Lamp, 75w T12, Mag. Ballast, Surface Mnt., Clear Acrylic Gasketed Lens | 142 | 0.28 | 2,487.8 | \$253.76 | 2 | 4 | (2) 8' Lamps to (4) 4' Lamps; 4 Lamp, 32w T8, Elect. Ballast; retrofit | 104 | 0.21 | 1822.08 | \$185.85 | \$100.00 | \$200.00 | 0.08 | 665.76 | \$67.91 | 2.95 |
| Totals | | | 939 | | | | 71.52 | 308,957 | \$31,514 | 939 | | | 60.6 | 260949 | \$26,617 | \$3,779 | \$13,596 | 8.1 | 41106 | \$4,193 | 3.24 | |

NOTES: 1. Simple Payback noted in this spreadsheet does not include Maintenance Savings and NJ Smart Start Incentives.
2. Lamp totals only include T-12 tube replacement calculations

Investment Grade Lighting Audit

CEG Job #: 9C09162

Project: HUDSON COUNTY IMPROVEMENT AUTHORITY ENERGY AUDIT

Building - 10 Psychiatric Hospital

KWH COST: \$0.102

Address: 595 County Ave.

Secaucus, NJ. 07094

Building SF: 63775

ECM #2: Lighting Controls

| EXISTING LIGHTING | | | | | PROPOSED LIGHTING CONTROLS | | | | | | | | | | | | | | SAVINGS | | | | | |
|---------------------|--------------------------|--------------|-----------|-----------|--|------------|----------|-----------------|----------------|-----------|-----------|----------------------|------------|----------|---------------|-----------------|----------------|-----------------------|------------|------------|----------------|-------------------|-----------------------|--|
| CEG Type | Fixture Location | Yearly Usage | No. Fixts | No. Lamps | Fixture Type | Fixt Watts | Total kW | kWh/Yr Fixtures | Yearly \$ Cost | No. Fixts | No. Lamps | Controls Description | Watts Used | Total kW | Reduction (%) | kWh/Yr Fixtures | Yearly \$ Cost | Unit Cost (INSTALLED) | Total Cost | kW Savings | kWh/Yr Savings | Yearly \$ Savings | Yearly Simple Payback | |
| Control Room | | | | | | | | | | | | | | | | | | | | | | | | |
| 126.3 | Main Equipment Area | 8760 | 5 | 2 | 2' Channel, (2) 20w T12, Mag. Ballast, Pendant Mnt., No Lens | 42 | 0.21 | 1839.6 | 187.6392 | 5 | 2 | | 42 | 0.21 | 0% | 1839.6 | \$187.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 121.3 | Main Equipment Area | 8760 | 5 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., No Lens | 75 | 0.375 | 3285 | 335.07 | 5 | 2 | | 75 | 0.38 | 0% | 3285 | \$335.07 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 128.3 | Main Equipment Area | 8760 | 2 | 2 | 8 Foot, 2-Lamp, 75w T12, Mag. Ballast, Pendant Mnt., Prismatic | 142 | 0.284 | 2487.84 | 253.7597 | 2 | 4 | | 142 | 0.28 | 0% | 2487.84 | \$253.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 305 | Main Equipment Area | 8760 | 5 | 1 | 1 Lamp Incandescent, 150 Watt Bulbs, Surface Mounted, Direct | 150 | 0.75 | 6570 | 670.14 | 5 | 1 | | 150 | 0.75 | 0% | 6570 | \$670.14 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 142.2 | Staff Office | 8760 | 2 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.344 | 3013.44 | 307.3709 | 2 | 3 | | 172 | 0.34 | 0% | 3013.44 | \$307.37 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 113.1 | Staff Office | 8760 | 4 | 1 | 3 Foot, 1-Lamp, T12, Magnetic Ballast, Surface Mounted, Prismatic Lens | 47 | 0.188 | 1646.88 | 167.9818 | 4 | 1 | | 47 | 0.19 | 0% | 1646.88 | \$167.98 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 142.2 | Staff Lounge | 8760 | 4 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.688 | 6026.88 | 614.7418 | 4 | 3 | | 172 | 0.69 | 0% | 6026.88 | \$614.74 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 127.2 | Staff Lounge | 8760 | 1 | 2 | 2x2, 2-Lamp, 34w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 66 | 0.066 | 578.16 | 58.97232 | 1 | 3 | | 66 | 0.07 | 0% | 578.16 | \$58.97 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 122.2 | Kitchen Machine Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., No Lens | 75 | 0.15 | 390 | 39.78 | 2 | 2 | | 75 | 0.15 | 0% | 390 | \$39.78 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 122.2 | Bathroom in Staff Lounge | 2600 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., No Lens | 75 | 0.075 | 195 | 19.89 | 1 | 2 | | 75 | 0.08 | 0% | 195 | \$19.89 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 121.2 | Bathroom in Staff Lounge | 2600 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 75 | 0.075 | 195 | 19.89 | 1 | 2 | | 75 | 0.08 | 0% | 195 | \$19.89 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |
| 121.3 | 2nd Floor | 8760 | 6 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., Prismatic Lens | 75 | 0.45 | 3942 | 402.084 | 6 | 2 | | 75 | 0.45 | 0% | 3942 | \$402.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | |

Investment Grade Lighting Audit

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-----------------------|------|---|---|---|-----|-------|---------|----------|---|---|----------------------------------|-----|------|-----|---------|------------|----------|----------|------|--------|---------|------|
| 305 | 2nd Floor | 8760 | 8 | 1 | 1 Lamp Incandescent, 150 Watt Bulbs, Surface Mounted, Direct | 150 | 1.2 | 10512 | 1072.224 | 8 | 1 | | 150 | 1.20 | 0% | 10512 | \$1,072.22 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| First Floor | | | | | | | | | | | | | | | | | | | | | | | |
| 116.1 | Elevator Car 1 | 8760 | 6 | 1 | 2' Channel, (1) 20w T12, Mag. Ballast, Pendant Mnt., No Lens | 22 | 0.132 | 1156.32 | 117.9446 | 6 | 1 | | 22 | 0.13 | 0% | 1156.32 | \$117.94 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 116.1 | Elevator Car 2 | 8760 | 6 | 1 | 2' Channel, (1) 20w T12, Mag. Ballast, Pendant Mnt., No Lens | 22 | 0.132 | 1156.32 | 117.9446 | 6 | 1 | | 22 | 0.13 | 0% | 1156.32 | \$117.94 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 107 Housekeeping | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 108 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | NW1 Corridor | 8760 | 6 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.348 | 3048.48 | 310.945 | 6 | 0 | | 58 | 0.35 | 0% | 3048.48 | \$310.94 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.036 | 315.36 | 32.16672 | 2 | 1 | | 18 | 0.04 | 0% | 315.36 | \$32.17 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 110 Telephone Room | 520 | 2 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.06 | 31.2 | 3.1824 | 2 | 0 | | 30 | 0.06 | 0% | 31.2 | \$3.18 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 109 Confidential Aide | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 112/13 Personnel | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 112 Restroom | 520 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 30.16 | 3.07632 | 1 | 0 | | 58 | 0.06 | 0% | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | Closet | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | 1.5912 | 1 | 0 | | 30 | 0.03 | 0% | 15.6 | \$1.59 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 114 Personnel | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 115/117/118 Offices | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.648 | 1684.8 | 171.8496 | 6 | 0 | Dual Technology Occupancy Sensor | 108 | 0.65 | 10% | 1516.32 | \$154.66 | \$160.00 | \$160.00 | 0.00 | 168.48 | \$17.18 | 9.31 |
| 221.2 | 115 Restroom | 520 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 30.16 | 3.07632 | 1 | 0 | | 58 | 0.06 | 0% | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Closet | 520 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 30.16 | 3.07632 | 1 | 0 | | 58 | 0.06 | 0% | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 125 Medical Director | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|-------|------------------------|------|----|---|---|-----|-------|----------|----------|----|---|----------------------------------|-----|------|-----|----------|------------|----------|----------|------|-------|--------|-------|
| 242.2 | 126 Medical Director | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 119 Storage | 520 | 1 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.058 | 30.16 | 3.07632 | 1 | 0 | | 58 | 0.06 | 0% | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 0 | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | 1.5912 | 1 | 0 | | 30 | 0.03 | 0% | 15.6 | \$1.59 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 120 Storage | 520 | 1 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.058 | 30.16 | 3.07632 | 1 | 0 | | 58 | 0.06 | 0% | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 0 | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | 1.5912 | 1 | 0 | | 30 | 0.03 | 0% | 15.6 | \$1.59 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 123 Janitor's Closet | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | 1.5912 | 1 | 0 | | 30 | 0.03 | 0% | 15.6 | \$1.59 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.1 | N1 Corridor | 8760 | 32 | 2 | 2-Lamp, T8, Electronic Ballast, Surface Mounted, Prismatic Lens | 58 | 1.856 | 16258.56 | 1658.373 | 32 | 0 | | 58 | 1.86 | 0% | 16258.56 | \$1,658.37 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 11 | 2 | Exit Sign - Fluorescent | 18 | 0.198 | 1734.48 | 176.917 | 11 | 1 | | 18 | 0.20 | 0% | 1734.48 | \$176.92 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 130 Secretarial Office | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 2 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 130 Restrooms and Hall | 2600 | 3 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.174 | 452.4 | 46.1448 | 3 | 0 | | 58 | 0.17 | 0% | 452.4 | \$46.14 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 128 Administrator | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.648 | 1684.8 | 171.8496 | 6 | 0 | | 108 | 0.65 | 0% | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 128 Restroom | 2600 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 78 | 7.956 | 1 | 0 | | 30 | 0.03 | 0% | 78 | \$7.96 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 134 Quality Assurance | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.232 | 603.2 | 61.5264 | 4 | 0 | | 58 | 0.23 | 0% | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 134 Restroom | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | 1.5912 | 1 | 0 | | 30 | 0.03 | 0% | 15.6 | \$1.59 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 134 Closet | 520 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 30.16 | 3.07632 | 1 | 0 | | 58 | 0.06 | 0% | 30.16 | \$3.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 135 Storage | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | 1.5912 | 1 | 0 | | 30 | 0.03 | 0% | 15.6 | \$1.59 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 139 Clinical Director | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.232 | 603.2 | 61.5264 | 4 | 0 | | 58 | 0.23 | 0% | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 140 Conference Room | 2600 | 6 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.348 | 904.8 | 92.2896 | 6 | 0 | Dual Technology Occupancy Sensor | 58 | 0.35 | 10% | 814.32 | \$83.06 | \$160.00 | \$160.00 | 0.00 | 90.48 | \$9.23 | 17.34 |
| 242.2 | 141 MIS | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------|-----------------------|------|----|---|---|-----|-------|---------|----------|----|---|----------------------------------|-----|------|-----|---------|----------|----------|----------|------|--------|---------|-------|
| 221.2 | 144 Restroom | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 143 On Call | 8760 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 1892.16 | 193.0003 | 2 | 0 | | 108 | 0.22 | 0% | 1892.16 | \$193.00 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Restroom/Shower | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 0 | 2600 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 78 | 7.956 | 1 | 0 | | 30 | 0.03 | 0% | 78 | \$7.96 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 149 Medical Records | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | Dual Technology Occupancy Sensor | 108 | 0.43 | 10% | 1010.88 | \$103.11 | \$160.00 | \$160.00 | 0.00 | 112.32 | \$11.46 | 13.97 |
| 221.2 | 149 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | Lobby | 8760 | 16 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.928 | 8129.28 | 829.1866 | 16 | 0 | | 58 | 0.93 | 0% | 8129.28 | \$829.19 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 6 | 2 | Exit Sign - Fluorescent | 18 | 0.108 | 946.08 | 96.50016 | 6 | 1 | | 18 | 0.11 | 0% | 946.08 | \$96.50 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 150 Finance | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.232 | 603.2 | 61.5264 | 4 | 0 | Dual Technology Occupancy Sensor | 58 | 0.23 | 10% | 542.88 | \$55.37 | \$160.00 | \$160.00 | 0.00 | 60.32 | \$6.15 | 26.01 |
| 222.2 | 152 Finance | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 151 Computer Training | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | Dual Technology Occupancy Sensor | 108 | 0.43 | 10% | 1010.88 | \$103.11 | \$160.00 | \$160.00 | 0.00 | 112.32 | \$11.46 | 13.97 |
| 221.2 | S1 Corridor | 8760 | 5 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.29 | 2540.4 | 259.1208 | 5 | 0 | | 58 | 0.29 | 0% | 2540.4 | \$259.12 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.036 | 315.36 | 32.16672 | 2 | 1 | | 18 | 0.04 | 0% | 315.36 | \$32.17 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 151 Transportation | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 151 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 153 Art Therapy | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 172 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|-------|----------------------|------|----|---|---|-----|-------|---------|----------|----|---|--|-----|------|----|---------|----------|--------|--------|------|---|--------|------|
| 242.2 | 156 Library | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 157 Gym | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.648 | 1684.8 | 171.8496 | 6 | 0 | | 108 | 0.65 | 0% | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 161 Teaching Kitchen | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 0 | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Storage | 520 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.116 | 60.32 | 6.15264 | 2 | 0 | | 58 | 0.12 | 0% | 60.32 | \$6.15 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 167 Locker Room | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 0 | 2600 | 5 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.29 | 754 | 76.908 | 5 | 0 | | 58 | 0.29 | 0% | 754 | \$76.91 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 166 Server Room | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.108 | 280.8 | 28.6416 | 1 | 0 | | 108 | 0.11 | 0% | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 170 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | W1 Corridor | 8760 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 1016.16 | 103.6483 | 2 | 0 | | 58 | 0.12 | 0% | 1016.16 | \$103.65 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 1 | 2 | Exit Sign - Fluorescent | 18 | 0.018 | 157.68 | 16.08336 | 1 | 1 | | 18 | 0.02 | 0% | 157.68 | \$16.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 165 Waiting Room | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.232 | 603.2 | 61.5264 | 4 | 0 | | 58 | 0.23 | 0% | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 165 Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 165 Storage | 520 | 1 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.03 | 15.6 | 1.5912 | 1 | 0 | | 30 | 0.03 | 0% | 15.6 | \$1.59 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 162 Treatment Room | 2600 | 10 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 1.08 | 2808 | 286.416 | 10 | 0 | | 108 | 1.08 | 0% | 2808 | \$286.42 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 0 | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|---------------------|-----------------------|------|----|---|---|-----|-------|---------|----------|----|---|----------------------------------|-----|------|-----|---------|------------|----------|----------|------|-------|---------|------|
| 242.2 | Library | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| Kitchen | | | | | | | | | | | | | | | | | | \$0.00 | | | | | |
| 142.2 | Dining | 2600 | 3 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.516 | 1341.6 | 136.8432 | 3 | 3 | | 172 | 0.52 | 0% | 1341.6 | \$136.84 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 142.2 | Break Room | 2600 | 2 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.344 | 894.4 | 91.2288 | 2 | 3 | | 172 | 0.34 | 0% | 894.4 | \$91.23 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 122.2 | Restroom | 2600 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Pendant Mnt., No Lens | 75 | 0.075 | 195 | 19.89 | 1 | 2 | | 75 | 0.08 | 0% | 195 | \$19.89 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 142.2 | Wash Area | 2600 | 7 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 1.204 | 3130.4 | 319.3008 | 7 | 3 | | 172 | 1.20 | 0% | 3130.4 | \$319.30 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 142.2 | Office | 2600 | 1 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.172 | 447.2 | 45.6144 | 1 | 3 | | 172 | 0.17 | 0% | 447.2 | \$45.61 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 142.2 | Kitchen | 2600 | 22 | 4 | 2x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 3.784 | 9838.4 | 1003.517 | 22 | 3 | | 172 | 3.78 | 0% | 9838.4 | \$1,003.52 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 127.2 | 0 | 2600 | 2 | 2 | 2x2, 2-Lamp, 34w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 66 | 0.132 | 343.2 | 35.0064 | 2 | 3 | | 66 | 0.13 | 0% | 343.2 | \$35.01 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 121.2 | Exhaust Hoods | 2600 | 4 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 75 | 0.3 | 780 | 79.56 | 4 | 2 | | 75 | 0.30 | 0% | 780 | \$79.56 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 121.2 | Chemical Storage Room | 2600 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 75 | 0.075 | 195 | 19.89 | 1 | 2 | | 75 | 0.08 | 0% | 195 | \$19.89 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 141.2 | Office | 2600 | 2 | 4 | 1x4, 4-Lamp, 40w T12, Mag. Ballast, Recessed Mnt., Prismatic Lens | 172 | 0.344 | 894.4 | 91.2288 | 2 | 3 | | 172 | 0.34 | 0% | 894.4 | \$91.23 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 141.1 | Storage #1 | 2600 | 5 | 4 | 1x4, 4-Lamp, 40w T12, Mag. Ballast, Surface Mnt., Prismatic Lens | 172 | 0.86 | 2236 | 228.072 | 5 | 3 | Dual Technology Occupancy Sensor | 172 | 0.86 | 10% | 2012.4 | \$205.26 | \$160.00 | \$160.00 | 0.00 | 223.6 | \$22.81 | 7.02 |
| 603 | Kitchen | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.036 | 315.36 | 32.16672 | 2 | 1 | | 18 | 0.04 | 0% | 315.36 | \$32.17 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 600 | Kitchen | 8760 | 2 | 1 | Exit Sign - LED | 10 | 0.02 | 175.2 | 17.8704 | 2 | 0 | | 10 | 0.02 | 0% | 175.2 | \$17.87 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| Second Floor | | | | | | | | | | | | | | | | | | \$0.00 | | | | | |
| 232.2 | N2 Corridor | 8760 | 7 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.574 | 5028.24 | 512.8805 | 7 | 0 | | 82 | 0.57 | 0% | 5028.24 | \$512.88 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.036 | 315.36 | 32.16672 | 2 | 1 | | 18 | 0.04 | 0% | 315.36 | \$32.17 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|-------|---|------|---|---|--|-----|-------|--------|----------|---|---|----------------------------------|-----|------|-----|---------|----------|----------|----------|------|--------|--------|-------|
| 242.2 | 204 Social Services | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 205/206 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 207/208 Patient Room & Bathroom | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 211 Consultation Room | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.324 | 842.4 | 85.9248 | 3 | 0 | Dual Technology Occupancy Sensor | 108 | 0.32 | 10% | 758.16 | \$77.33 | \$160.00 | \$160.00 | 0.00 | 84.24 | \$8.59 | 18.62 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 210 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 209/212 Patient Room & Bathroom | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 213 Phychiatry Office | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.324 | 842.4 | 85.9248 | 3 | 0 | Dual Technology Occupancy Sensor | 108 | 0.32 | 10% | 758.16 | \$77.33 | \$160.00 | \$160.00 | 0.00 | 84.24 | \$8.59 | 18.62 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 214 Bathtub | 8760 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 508.08 | 51.82416 | 1 | 0 | Dual Technology Occupancy Sensor | 58 | 0.06 | 10% | 457.272 | \$46.64 | \$160.00 | \$160.00 | 0.00 | 50.808 | \$5.18 | 30.87 |
| 242.2 | 217/218 Patient Room & Bathroom with Shower | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.046 | 119.6 | 12.1992 | 2 | 0 | | 23 | 0.05 | 0% | 119.6 | \$12.20 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 216/215 Patient Room & Bathroom with Shower | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|-------|---------------------------------|------|----|---|---|-----|-------|---------|----------|----|---|----------------------------------|-----|------|-----|---------|----------|----------|----------|------|--------|---------|------|
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.046 | 119.6 | 12.1992 | 2 | 0 | | 23 | 0.05 | 0% | 119.6 | \$12.20 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | Custodial Closet | 520 | 2 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.06 | 31.2 | 3.1824 | 2 | 0 | | 30 | 0.06 | 0% | 31.2 | \$3.18 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 900 | 221 Custodial Closet | 520 | 2 | 2 | Recessed Down Light, (2) 14w PL Lamps | 30 | 0.06 | 31.2 | 3.1824 | 2 | 0 | | 30 | 0.06 | 0% | 31.2 | \$3.18 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 220/219 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 222 Dining Room | 2600 | 9 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.522 | 1357.2 | 138.4344 | 9 | 0 | | 58 | 0.52 | 0% | 1357.2 | \$138.43 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 224 Day Room | 2600 | 8 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.864 | 2246.4 | 229.1328 | 8 | 0 | Dual Technology Occupancy Sensor | 108 | 0.86 | 10% | 2021.76 | \$206.22 | \$160.00 | \$160.00 | 0.00 | 224.64 | \$22.91 | 6.98 |
| 603 | 0 | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.036 | 315.36 | 32.16672 | 2 | 1 | | 18 | 0.04 | 0% | 315.36 | \$32.17 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 232 | Lobby | 8760 | 11 | 3 | 1x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.902 | 7901.52 | 805.955 | 11 | 0 | | 82 | 0.90 | 0% | 7901.52 | \$805.96 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 1 | 2 | Exit Sign - Fluorescent | 18 | 0.018 | 157.68 | 16.08336 | 1 | 1 | | 18 | 0.02 | 0% | 157.68 | \$16.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | Nurse's Station | 8760 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.324 | 2838.24 | 289.5005 | 3 | 0 | | 108 | 0.32 | 0% | 2838.24 | \$289.50 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Valuables | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | Medication Room | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.108 | 280.8 | 28.6416 | 1 | 0 | | 108 | 0.11 | 0% | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Quiet Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Quiet Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | Restroom | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | Quiet Room Hall | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.046 | 119.6 | 12.1992 | 2 | 0 | | 23 | 0.05 | 0% | 119.6 | \$12.20 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 232.2 | S2 Corridor | 8760 | 7 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.574 | 5028.24 | 512.8805 | 7 | 0 | | 82 | 0.57 | 0% | 5028.24 | \$512.88 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|-------|---|------|---|---|---|-----|-------|--------|----------|---|---|--|-----|------|----|--------|----------|--------|--------|------|---|--------|------|
| 603 | 0 | 8760 | 3 | 2 | Exit Sign - Fluorescent | 18 | 0.054 | 473.04 | 48.25008 | 3 | 1 | | 18 | 0.05 | 0% | 473.04 | \$48.25 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 236/231 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 235/238 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 237 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 241/243 Patient Room & Bathroom | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 240/239 Patient Room & Bathroom | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 246/245 Patient Room & Bathroom with Shower | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.046 | 119.6 | 12.1992 | 2 | 0 | | 23 | 0.05 | 0% | 119.6 | \$12.20 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 247/242 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 248 Therapeutic Services | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 244 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|-------|---------------------------------|------|----|---|---|-----|-------|---------|----------|----|---|----------------------------------|-----|------|-----|---------|------------|----------|----------|------|--------|---------|------|
| 242.2 | 225 Staff Restroom | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.108 | 280.8 | 28.6416 | 1 | 0 | | 108 | 0.11 | 0% | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 227 | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.648 | 1684.8 | 171.8496 | 6 | 0 | Dual Technology Occupancy Sensor | 108 | 0.65 | 10% | 1516.32 | \$154.66 | \$160.00 | \$160.00 | 0.00 | 168.48 | \$17.18 | 9.31 |
| 221.2 | Restrooms | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 231.2 | W2 Corridor | 8760 | 15 | 3 | 1x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 1.23 | 10774.8 | 1099.03 | 15 | 0 | | 82 | 1.23 | 0% | 10774.8 | \$1,099.03 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 6 | 2 | Exit Sign - Fluorescent | 18 | 0.108 | 946.08 | 96.50016 | 6 | 1 | | 18 | 0.11 | 0% | 946.08 | \$96.50 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 276 Dining Room | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.232 | 603.2 | 61.5264 | 4 | 0 | | 58 | 0.23 | 0% | 603.2 | \$61.53 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 0 | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | Clean Linen | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 273/274 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 272 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 271 Activity Room | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.648 | 1684.8 | 171.8496 | 6 | 0 | | 108 | 0.65 | 0% | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 270/269 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 267 Soiled Linen | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.108 | 280.8 | 28.6416 | 1 | 0 | | 108 | 0.11 | 0% | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 266/265 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|--------------------|---------------------------------|------|---|---|---|-----|-------|---------|----------|---|---|--|-----|------|----|---------|----------|--------|--------|------|---|--------|------|--|--|
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 910 | 0 | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.046 | 119.6 | 12.1992 | 2 | 0 | | 23 | 0.05 | 0% | 119.6 | \$12.20 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 242.2 | 259/260 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 910 | 0 | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.046 | 119.6 | 12.1992 | 2 | 0 | | 23 | 0.05 | 0% | 119.6 | \$12.20 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 242.2 | 258/263 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 242.2 | 256 Director | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 242.2 | 257 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 242.2 | 254 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 242.2 | 255 Office | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 910 | Restroom | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 222.2 | Storage | 650 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 75.4 | 7.6908 | 2 | 0 | | 58 | 0.12 | 0% | 75.4 | \$7.69 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 242.2 | Pantry | 650 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.108 | 70.2 | 7.1604 | 1 | 0 | | 108 | 0.11 | 0% | 70.2 | \$7.16 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 221.2 | 250 Mop Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 242.2 | 249 Laundry | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| 221.3 | West Stairway | 8760 | 6 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.348 | 3048.48 | 310.945 | 6 | 0 | | 58 | 0.35 | 0% | 3048.48 | \$310.94 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 | | |
| Third Floor | | | | | | | | | | | | | | | | | | \$0.00 | | | | | | | |

Investment Grade Lighting Audit

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|-------|---|------|---|---|--|-----|-------|---------|----------|---|---|----------------------------------|-----|------|-----|---------|----------|----------|----------|------|-------|--------|-------|
| 232.2 | N3 Corridor | 8760 | 7 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.574 | 5028.24 | 512.8805 | 7 | 0 | | 82 | 0.57 | 0% | 5028.24 | \$512.88 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.036 | 315.36 | 32.16672 | 2 | 1 | | 18 | 0.04 | 0% | 315.36 | \$32.17 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 305 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 306/308 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 307/311 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 309 Consultation Room | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.324 | 842.4 | 85.9248 | 3 | 0 | Dual Technology Occupancy Sensor | 108 | 0.32 | 10% | 758.16 | \$77.33 | \$160.00 | \$160.00 | 0.00 | 84.24 | \$8.59 | 18.62 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 310 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 313/312 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 314 Bathtub | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 317/315 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 318/319 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|-------|---|------|----|---|--|-----|-------|---------|----------|----|---|----------------------------------|-----|------|-----|---------|----------|----------|----------|------|--------|---------|-------|
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 359 Dining Room | 2600 | 9 | 2 | 2x4, 2-Lamp, 32w T8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.522 | 1357.2 | 138.4344 | 9 | 0 | | 58 | 0.52 | 0% | 1357.2 | \$138.43 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 321/320 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 323 Day Room | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | Dual Technology Occupancy Sensor | 108 | 0.43 | 10% | 1010.88 | \$103.11 | \$160.00 | \$160.00 | 0.00 | 112.32 | \$11.46 | 13.97 |
| 242.2 | 324 Day Room | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | Dual Technology Occupancy Sensor | 108 | 0.43 | 10% | 1010.88 | \$103.11 | \$160.00 | \$160.00 | 0.00 | 112.32 | \$11.46 | 13.97 |
| 232.2 | Lobby | 8760 | 10 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.82 | 7183.2 | 732.6864 | 10 | 0 | | 82 | 0.82 | 0% | 7183.2 | \$732.69 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 603 | 0 | 8760 | 3 | 2 | Exit Sign - Fluorescent | 18 | 0.054 | 473.04 | 48.25008 | 3 | 1 | | 18 | 0.05 | 0% | 473.04 | \$48.25 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | Nurse's Station | 8760 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.324 | 2838.24 | 289.5005 | 3 | 0 | | 108 | 0.32 | 0% | 2838.24 | \$289.50 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Valuables | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | Medication Room | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.108 | 280.8 | 28.6416 | 1 | 0 | | 108 | 0.11 | 0% | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | 329 Seclusion Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 329 Hall & Restroom | 2600 | 3 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.069 | 179.4 | 18.2988 | 3 | 0 | | 23 | 0.07 | 0% | 179.4 | \$18.30 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 336/331 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 335/338 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|-------|---|------|---|---|---|-----|-------|---------|----------|---|---|--|-----|------|----|---------|----------|--------|--------|------|---|--------|------|
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 337 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 340/339 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 341/343 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 344 Shower | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.046 | 119.6 | 12.1992 | 2 | 0 | | 23 | 0.05 | 0% | 119.6 | \$12.20 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 346/345 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 347/342 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 348 Therapy | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 232.2 | S3 Corridor | 8760 | 6 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.492 | 4309.92 | 439.6118 | 6 | 0 | | 82 | 0.49 | 0% | 4309.92 | \$439.61 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | 0 | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.036 | 315.36 | 32.16672 | 2 | 1 | | 18 | 0.04 | 0% | 315.36 | \$32.17 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 232.2 | W3 Corridor | 8760 | 6 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.492 | 4309.92 | 439.6118 | 6 | 0 | | 82 | 0.49 | 0% | 4309.92 | \$439.61 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | 0 | 8760 | 4 | 2 | Exit Sign - Fluorescent | 18 | 0.072 | 630.72 | 64.33344 | 4 | 1 | | 18 | 0.07 | 0% | 630.72 | \$64.33 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|---------------------|---|------|---|---|---|-----|-------|---------|----------|---|---|----------------------------------|-----|------|-----|---------|----------|----------|----------|------|-------|--------|-------|
| 242.2 | 325 Staff Restroom | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.108 | 280.8 | 28.6416 | 1 | 0 | | 108 | 0.11 | 0% | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 353 Activity Room | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.648 | 1684.8 | 171.8496 | 6 | 0 | | 108 | 0.65 | 0% | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 358 Office | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 354 MICA | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.232 | 603.2 | 61.5264 | 4 | 0 | Dual Technology Occupancy Sensor | 58 | 0.23 | 10% | 542.88 | \$55.37 | \$160.00 | \$160.00 | 0.00 | 60.32 | \$6.15 | 26.01 |
| 221.1 | 350 Clean Linen | 2600 | 3 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.174 | 452.4 | 46.1448 | 3 | 0 | | 58 | 0.17 | 0% | 452.4 | \$46.14 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | Laundry | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 349 Staff Lounge | 2600 | 3 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.174 | 452.4 | 46.1448 | 3 | 0 | | 58 | 0.17 | 0% | 452.4 | \$46.14 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 351 Soiled Linen | 2600 | 3 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.174 | 452.4 | 46.1448 | 3 | 0 | | 58 | 0.17 | 0% | 452.4 | \$46.14 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| Fourth Floor | | | | | | | | | | | | | | | | | | \$0.00 | | | | | |
| 232.2 | N4 Corridor | 8760 | 7 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.574 | 5028.24 | 512.8805 | 7 | 0 | | 82 | 0.57 | 0% | 5028.24 | \$512.88 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | 0 | 8760 | 2 | 2 | Exit Sign - Fluorescent | 18 | 0.036 | 315.36 | 32.16672 | 2 | 1 | | 18 | 0.04 | 0% | 315.36 | \$32.17 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 405 Linen Storage | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 406/407 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 408/411 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 409 Consultation Room | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.324 | 842.4 | 85.9248 | 3 | 0 | Dual Technology Occupancy Sensor | 108 | 0.32 | 10% | 758.16 | \$77.33 | \$160.00 | \$160.00 | 0.00 | 84.24 | \$8.59 | 18.62 |

Investment Grade Lighting Audit

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|-------|---|------|---|---|---|-----|-------|--------|----------|---|---|----------------------------------|-----|------|-----|---------|----------|----------|----------|------|--------|---------|-------|
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 410 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 415 Consultation Room | 2600 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.324 | 842.4 | 85.9248 | 3 | 0 | Dual Technology Occupancy Sensor | 108 | 0.32 | 10% | 758.16 | \$77.33 | \$160.00 | \$160.00 | 0.00 | 84.24 | \$8.59 | 18.62 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 413/412 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 414 Bathroom | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 417/416 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 418/420 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 422/419 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | Storage | 520 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 11.96 | 1.21992 | 1 | 0 | | 23 | 0.02 | 0% | 11.96 | \$1.22 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 421 Janitor's Closet | 520 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 11.96 | 1.21992 | 1 | 0 | | 23 | 0.02 | 0% | 11.96 | \$1.22 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 423 Day Room | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | Dual Technology Occupancy Sensor | 108 | 0.43 | 10% | 1010.88 | \$103.11 | \$160.00 | \$160.00 | 0.00 | 112.32 | \$11.46 | 13.97 |
| 242.2 | 456 Dining Room | 2600 | 9 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.972 | 2527.2 | 257.7744 | 9 | 0 | | 108 | 0.97 | 0% | 2527.2 | \$257.77 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|------|----|---|--|-----|-------|---------|----------|----|---|----------------------------------|-----|------|-----|---------|----------|----------|----------|------|--------|---------|-------|
| 232.2 | Lobby | 8760 | 10 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.82 | 7183.2 | 732.6864 | 10 | 0 | | 82 | 0.82 | 0% | 7183.2 | \$732.69 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | 0 | 8760 | 3 | 2 | Exit Sign - Fluorescent | 18 | 0.054 | 473.04 | 48.25008 | 3 | 1 | | 18 | 0.05 | 0% | 473.04 | \$48.25 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | Nurse's Station | 8760 | 3 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.324 | 2838.24 | 289.5005 | 3 | 0 | | 108 | 0.32 | 0% | 2838.24 | \$289.50 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.2 | Valuables | 2600 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | Medication Room | 2600 | 1 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.108 | 280.8 | 28.6416 | 1 | 0 | | 108 | 0.11 | 0% | 280.8 | \$28.64 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 424 Day Room | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | Dual Technology Occupancy Sensor | 108 | 0.43 | 10% | 1010.88 | \$103.11 | \$160.00 | \$160.00 | 0.00 | 112.32 | \$11.46 | 13.97 |
| 221.2 | 429 Seclusion Room | 2600 | 2 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Recessed Mnt, Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 429 Hall & Restroom | 2600 | 3 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.069 | 179.4 | 18.2988 | 3 | 0 | | 23 | 0.07 | 0% | 179.4 | \$18.30 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 436/431 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 435/438 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 437 Shower | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 440/439 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 441/443 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

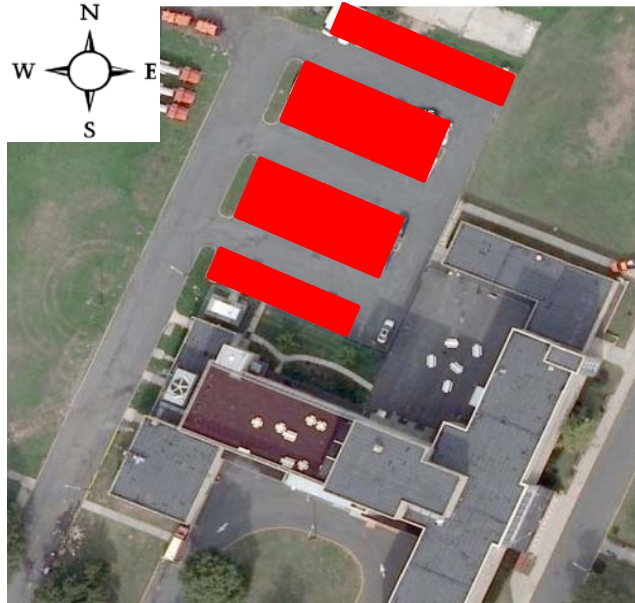
| | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|------|---|---|---|-----|-------|--------|----------|---|---|----------------------------------|-----|------|-----|--------|----------|----------|----------|------|-------|--------|-------|
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 444 Shower | 2600 | 2 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.046 | 119.6 | 12.1992 | 2 | 0 | | 23 | 0.05 | 0% | 119.6 | \$12.20 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 446/445 Patient Room & Bathroom | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | | 108 | 0.22 | 0% | 561.6 | \$57.28 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 448 Office | 2600 | 2 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.216 | 561.6 | 57.2832 | 2 | 0 | Dual Technology Occupancy Sensor | 108 | 0.22 | 10% | 505.44 | \$51.55 | \$160.00 | \$160.00 | 0.00 | 56.16 | \$5.73 | 27.93 |
| 242.2 | 447/442 Patient Room & Bathroom with Shower | 2600 | 4 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.432 | 1123.2 | 114.5664 | 4 | 0 | | 108 | 0.43 | 0% | 1123.2 | \$114.57 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 920 | 0 | 4700 | 1 | 1 | Recessed Wall Mnt. Night Light, (1) 9w CFL | 9 | 0.009 | 42.3 | 4.3146 | 1 | 0 | | 9 | 0.01 | 0% | 42.3 | \$4.31 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 910 | 0 | 2600 | 1 | 1 | 1x1 Recessed Down Light, (1) 23w CFL | 23 | 0.023 | 59.8 | 6.0996 | 1 | 0 | | 23 | 0.02 | 0% | 59.8 | \$6.10 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 232.2 | W4 Corridor | 8760 | 5 | 3 | 2x4, 3-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 82 | 0.41 | 3591.6 | 366.3432 | 5 | 0 | | 82 | 0.41 | 0% | 3591.6 | \$366.34 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 602 | 0 | 8760 | 4 | 2 | Exit Sign - Fluorescent | 18 | 0.072 | 630.72 | 64.33344 | 4 | 1 | | 18 | 0.07 | 0% | 630.72 | \$64.33 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 428 Staff Restroom | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 242.2 | 452 Activity Room | 2600 | 6 | 4 | 2x4, 4-Lamp, 32w T8, Elect. Ballast, Recessed, Prismatic Lens | 108 | 0.648 | 1684.8 | 171.8496 | 6 | 0 | | 108 | 0.65 | 0% | 1684.8 | \$171.85 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | Clean Linen | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | 455 Office | 2600 | 4 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.232 | 603.2 | 61.5264 | 4 | 0 | Dual Technology Occupancy Sensor | 58 | 0.23 | 10% | 542.88 | \$55.37 | \$160.00 | \$160.00 | 0.00 | 60.32 | \$6.15 | 26.01 |
| 222.2 | 450 Soiled Linen | 2600 | 2 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.116 | 301.6 | 30.7632 | 2 | 0 | | 58 | 0.12 | 0% | 301.6 | \$30.76 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 222.2 | Laundry | 2600 | 1 | 2 | 2x4, 2-Lamp, 32wT8, Elect. Ballast, Recessed Mnt., Prismatic Lens | 58 | 0.058 | 150.8 | 15.3816 | 1 | 0 | | 58 | 0.06 | 0% | 150.8 | \$15.38 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 307 | 449 Mechanical Room | 1300 | 8 | 1 | Pendant Mnt. Industrial Reflector, (1) 100w A19 | 100 | 0.8 | 1040 | 106.08 | 8 | 1 | | 100 | 0.80 | 0% | 1040 | \$106.08 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 308 | 5th Floor Mechanical Room | 1300 | 7 | 1 | Pendant Mnt. Industrial Reflector, (1) 46w CFL Lamp | 46 | 0.322 | 418.6 | 42.6972 | 7 | 0 | | 46 | 0.32 | 0% | 418.6 | \$42.70 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |

Investment Grade Lighting Audit

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|-------|-----------------------------|------|-----|---|--|----|-------|---------|----------|-----|---|--|----|------|----|---------|-------------|--------|-----------|------|----------|----------|-------|
| 121.1 | Elevator Mechanical Room | 1300 | 1 | 2 | 1x4, 2-Lamp, 40w T12, Mag. Ballast, Surface Mnt., Prismatic Lens | 75 | 0.075 | 97.5 | 9.945 | 1 | 2 | | 75 | 0.08 | 0% | 97.5 | \$9.95 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.1 | 0 | 1300 | 1 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.058 | 75.4 | 7.6908 | 1 | 0 | | 58 | 0.06 | 0% | 75.4 | \$7.69 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.1 | Stairwell #1 | 8760 | 9 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.522 | 4572.72 | 466.4174 | 9 | 0 | | 58 | 0.52 | 0% | 4572.72 | \$466.42 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.1 | Stairwell #2 | 8760 | 9 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.522 | 4572.72 | 466.4174 | 9 | 0 | | 58 | 0.52 | 0% | 4572.72 | \$466.42 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 221.1 | Stairwell #3 | 8760 | 10 | 2 | 1x4, 2-Lamp, 32w T8, Elect Ballast, Surface Mnt, Prismatic Lens | 58 | 0.58 | 5080.8 | 518.2416 | 10 | 0 | | 58 | 0.58 | 0% | 5080.8 | \$518.24 | \$0.00 | \$0.00 | 0.00 | 0 | \$0.00 | 0.00 |
| 0 | Totals | 0 | 195 | 0 | | | 70.6 | 304305 | 31039 | 930 | 0 | | 0 | 70.6 | | 302046 | \$30,808.74 | | \$3,360.0 | 0.00 | 2258.728 | \$230.39 | 14.58 |

| Project Name: LGEA Solar PV Project - Hudson County - Meadowview Psychiatric Hospital | | | | | | | |
|---|--|-----------------------|---------------------|------------------------------|--------------|------------------|----------------------|
| Location: Secaucus, NJ | | | | | | | |
| Description: Photovoltaic System - Direct Purchase | | | | | | | |
| Simple Payback Analysis | | | | | | | |
| | Photovoltaic System - Direct Purchase | | | | | | |
| Total Construction Cost | \$344,080 | | | | | | |
| Annual kWh Production | 49,700 | | | | | | |
| Annual Energy Cost Reduction | \$5,069 | | | | | | |
| Annual SREC Revenue | \$17,395 | | | | | | |
| First Cost Premium | \$344,080 | | | | | | |
| Simple Payback: | 15.32 | | | | | | Years |
| Life Cycle Cost Analysis | | | | | | | |
| Analysis Period (years): | 25 | | | Financing %: | 0% | | |
| Financing Term (mths): | 0 | | | Maintenance Escalation Rate: | 3.0% | | |
| Average Energy Cost (\$/kWh) | \$0.102 | | | Energy Cost Escalation Rate: | 3.0% | | |
| Financing Rate: | 0.00% | | | SREC Value (\$/kWh) | \$0.350 | | |
| Period | Additional Cash Outlay | Energy kWh Production | Energy Cost Savings | Additional Maint Costs | SREC Revenue | Net Cash Flow | Cumulative Cash Flow |
| 0 | \$344,080 | 0 | 0 | 0 | \$0 | (344,080) | 0 |
| 1 | \$0 | 49,700 | \$5,069 | \$0 | \$17,395 | \$22,464 | (\$321,616) |
| 2 | \$0 | 49,452 | \$5,221 | \$0 | \$17,308 | \$22,530 | (\$299,086) |
| 3 | \$0 | 49,204 | \$5,378 | \$0 | \$17,221 | \$22,600 | (\$276,486) |
| 4 | \$0 | 48,958 | \$5,539 | \$0 | \$17,135 | \$22,675 | (\$253,812) |
| 5 | \$0 | 48,713 | \$5,706 | \$502 | \$17,050 | \$22,254 | (\$231,558) |
| 6 | \$0 | 48,470 | \$5,877 | \$499 | \$16,964 | \$22,342 | (\$209,216) |
| 7 | \$0 | 48,228 | \$6,053 | \$497 | \$16,880 | \$22,436 | (\$186,780) |
| 8 | \$0 | 47,986 | \$6,235 | \$494 | \$16,795 | \$22,536 | (\$164,244) |
| 9 | \$0 | 47,746 | \$6,422 | \$492 | \$16,711 | \$22,641 | (\$141,603) |
| 10 | \$0 | 47,508 | \$6,614 | \$489 | \$16,628 | \$22,753 | (\$118,850) |
| 11 | \$0 | 47,270 | \$6,813 | \$487 | \$16,545 | \$22,871 | (\$95,980) |
| 12 | \$0 | 47,034 | \$7,017 | \$484 | \$16,462 | \$22,995 | (\$72,985) |
| 13 | \$0 | 46,799 | \$7,228 | \$482 | \$16,380 | \$23,125 | (\$49,860) |
| 14 | \$0 | 46,565 | \$7,445 | \$480 | \$16,298 | \$23,263 | (\$26,597) |
| 15 | \$0 | 46,332 | \$7,668 | \$477 | \$16,216 | \$23,407 | (\$3,190) |
| 16 | \$0 | 46,100 | \$7,898 | \$475 | \$16,135 | \$23,558 | \$20,368 |
| 17 | \$0 | 45,870 | \$8,135 | \$472 | \$16,054 | \$23,717 | \$44,085 |
| 18 | \$0 | 45,640 | \$8,379 | \$470 | \$15,974 | \$23,883 | \$67,968 |
| 19 | \$0 | 45,412 | \$8,630 | \$468 | \$15,894 | \$24,057 | \$92,024 |
| 20 | \$0 | 45,185 | \$8,889 | \$465 | \$15,815 | \$24,239 | \$116,263 |
| 21 | \$1 | 44,959 | \$9,156 | \$463 | \$15,736 | \$24,429 | \$140,692 |
| 22 | \$2 | 44,734 | \$9,431 | \$461 | \$15,657 | \$24,627 | \$165,318 |
| 23 | \$3 | 44,511 | \$9,713 | \$458 | \$15,579 | \$24,834 | \$190,152 |
| 24 | \$4 | 44,288 | \$10,005 | \$456 | \$15,501 | \$25,050 | \$215,202 |
| 25 | \$5 | 44,067 | \$10,305 | \$454 | \$15,423 | \$25,274 | \$240,476 |
| Totals: | | 1,170,731 | \$184,827 | \$10,026 | \$409,756 | \$584,556 | (\$1,159,317) |
| Net Present Value (NPV) | | | | | | \$240,501 | |
| Internal Rate of Return (IRR) | | | | | | 4.5% | |

| Building | PV Area (sq ft) | Panel | Qty | Panel Sq Ft | Panel Total Sq Ft | Total KW _{DC} | Total Annual kWh | Panel Weight (33 lbs) | W/SQFT |
|-------------------|-----------------|-----------------|-----|-------------|-------------------|------------------------|------------------|-----------------------|--------|
| Meadowview Campus | 3750 | Sunpower SPR230 | 187 | 20.0 | 3,740 | 43.01 | 49,700 | 6,171 | 11.50 |



AC Energy & Cost Savings



| Station Identification | |
|--------------------------|------------|
| City: | Newark |
| State: | New_Jersey |
| Latitude: | 40.70° N |
| Longitude: | 74.17° W |
| Elevation: | 9 m |
| PV System Specifications | |
| DC Rating: | 43.0 kW |
| DC to AC Derate Factor: | 0.810 |
| AC Rating: | 34.8 kW |
| Array Type: | Fixed Tilt |
| Array Tilt: | 10.0° |
| Array Azimuth: | 180.0° |
| Energy Specifications | |
| Cost of Electricity: | 11.2 ¢/kWh |

| Results | | | |
|---------|---|-----------------|-------------------|
| Month | Solar Radiation (kWh/m ² /day) | AC Energy (kWh) | Energy Value (\$) |
| 1 | 2.39 | 2581 | 289.07 |
| 2 | 3.17 | 3128 | 350.34 |
| 3 | 4.07 | 4378 | 490.34 |
| 4 | 4.83 | 4851 | 543.31 |
| 5 | 5.70 | 5771 | 646.35 |
| 6 | 5.94 | 5640 | 631.68 |
| 7 | 5.77 | 5596 | 626.75 |
| 8 | 5.38 | 5183 | 580.50 |
| 9 | 4.65 | 4459 | 499.41 |
| 10 | 3.61 | 3671 | 411.15 |
| 11 | 2.35 | 2341 | 262.19 |
| 12 | 2.01 | 2101 | 235.31 |
| Year | 4.16 | 49700 | 5566.40 |

= Proposed PV Layout

Notes:

1. Estimated kWh based on the National Renewable Energy Laboratory PVWatts Version 1 Calculator Program.



INTELLI-HOOD VARIABLE EXHAUST CONTROLLER

ENERGY SAVINGS REPORT

| | | |
|----------------------------|------------------------------------|---------------|
| COMPANY: | CEG | RETROFIT |
| ADDRESS: | Hudson County Psychiatric Hospital | |
| | Secaucus, NJ | Mar-18-09 |
| APPLICATION: | Main Kitchen | |
| - MOTOR OPERATING SAVINGS: | | \$2,024 /YEAR |
| - HEATING SAVINGS: | | \$2,006 /YEAR |
| - COOLING SAVINGS: | | \$825 /YEAR |
| - TOTAL SAVINGS: | | \$4,855 /YEAR |
| - INSTALLED COST: | | \$46,044 |
| - PAYBACK PERIOD: | | 9.5 YEARS |
| - RATE OF RETURN - | 5 YEARS: | -16.4 % |
| | 10 YEARS: | 3.4 % |

The projected savings shown above are based on the above store's operating hours, HVAC system, cooking load, and geographic location.

I. MOTOR OPERATING SAVINGS

INPUT DATA:

| | | |
|-------------------------------|-------|---------|
| A Operating Hours Per Day | 14 | HRS/DAY |
| B Operating Days Per Week | 7 | DAYS/WK |
| C Operating Weeks Per Year | 52 | WKS/YR |
| D Horsepower of Fan Motor(s) | 10 | HP |
| E Load Factor of Fan Motor(s) | 0.88 | |
| F Cost Per Kilowatt Hour | 0.102 | \$/KWHR |

CONSTANT EXHAUST VOLUME ANALYSIS:

| | | |
|------------------------------------|--------|------------|
| G Total Time (A x B x C) | 5096 | HRS/YR |
| H Total KWHR/HP/YR (0.746/0.9 x G) | 4224.0 | KWHR/HP/YR |

VARIABLE EXHAUST VOLUME ANALYSIS:

| <u>% Rated RPM H</u> | <u>% Run Time I</u> | <u>Time HRS/YR J=FxI</u> | <u>Output KW/HP K</u> | <u>System Effic. L</u> | <u>Input KW/HP M=K/L</u> | <u>KWHR/ HP/YR N=JxM</u> |
|------------------------------|-----------------------------|----------------------------------|-------------------------------|--------------------------------|----------------------------------|----------------------------------|
| 100 | 18.75 | 955.5 | 0.746 | 0.9 | 0.829 | 792.0 |
| 90 | 12.5 | 637 | 0.544 | 0.9 | 0.604 | 385.0 |
| 80 | 25 | 1274 | 0.382 | 0.9 | 0.424 | 540.7 |
| 70 | 0 | 0 | 0.256 | 0.9 | 0.284 | 0.0 |
| 60 | 18.75 | 955.5 | 0.161 | 0.9 | 0.179 | 170.9 |
| 50 | 12.5 | 637 | 0.093 | 0.9 | 0.103 | 65.8 |
| 40 | 0 | 0 | 0.048 | 0.9 | 0.053 | 0.0 |
| 30 | 12.5 | 637 | 0.020 | 0.9 | 0.022 | 14.2 |
| 20 | 0 | 0 | 0.015 | 0.9 | 0.017 | 0.0 |
| 10 | 0 | 0 | 0.010 | 0.90 | 0.011 | 0.0 |

| | |
|---------------------------------------|--------|
| O Total KWH/HP/YR (Total of Column N) | 1968.7 |
|---------------------------------------|--------|

CALCULATION:

$$\text{SAVINGS} = (H - O) \times D \times E \times F = \underline{\underline{\$2,024 /YEAR}}$$

II. CONDITIONED MAKE-UP AIR - HEATING

INPUT DATA:

| | | |
|-------------------------------|---------|-----------|
| A Previous Net Exhaust Volume | 24925 | CFM |
| B New Net Exhaust Volume (1) | 17759 | CFM |
| C Winter Building Temperature | 68 | F |
| D Previous Net Heat Load (2) | 1130598 | kBTU |
| E New Net Heat Load (2) | 805551 | kBTU |
| F Operating Hours Per Day | 14 | HRS/DAY |
| G Operating Days Per Week | 7 | DAYS/WK |
| - Heating Fuel Type | Steam | |
| H Cost Per Fuel Unit (3) | 7.2 | \$/UNIT |
| J BTU Per Fuel Unit (4) | 1,000 | kBTU/UNIT |
| K System Efficiency (4) | 0.7 | |

CALCULATION:

$$\begin{aligned}
 \text{SAVINGS} &= (D - E) \times 0.6 \times H / (J \times K) \\
 &= \text{\$2,006 /YEAR} \\
 &\quad \text{=====}
 \end{aligned}$$

NOTES:

- (1) Determine the New Exhaust Volume by completing TABLE 1. The New Exhaust Volume equals the AVG % RPM x the Previous Exhaust Volume.
- (2) Using design weather data via the Outdoor Airload Calculator and multiplied by days/year ratio.
- (3) Using local energy costs.
- (4) Using typical system efficiency.

| <u>% Rated RPM (F)</u> | <u>% Run Time (I)</u> | <u>F x I</u> |
|----------------------------|---------------------------|--------------|
| 100 | 19 | 19 |
| 90 | 13 | 11 |
| 80 | 25 | 20 |
| 70 | 0 | 0 |
| 60 | 19 | 11 |
| 50 | 13 | 6 |
| 40 | 0 | 0 |
| 30 | 13 | 4 |
| 20 | 0 | 0 |
| 10 | 0 | 0 |
| AVG % RPM = | | 71% |

III. CONDITIONED MAKE-UP AIR SAVINGS - COOLING

INPUT DATA:

| | |
|---------------------------------|--------------|
| A Previous Net Exhaust Volume | 24925 CFM |
| B New Net Exhaust Volume (1) | 17759 CFM |
| C Previous Net Cooling Load (2) | 480000 kBTU |
| D New Net Cooling Load (2) | 342000 kBTU |
| E AC Correction Factor (3) | 1 |
| F Cost Per Fuel Unit (5) | 0.102 \$/kWH |
| G COP (6) | 3 |

CALCULATION:

$$\text{SAVINGS} = (C - D) \times 0.6 \times E \times F / (3.413 \times G)$$

$$= \quad \quad \quad \$825 \text{ /YEAR}$$

=====

NOTES:

(1) Using New Exhaust Volume from CONDITIONED MAKE-UP AIR SAVINGS - HEATING on page 2. See Note 1.

(2) Obtained from Outdoor Airload Calculator

(3) Using design weather data.

(4) The multiplier corrects for actual % outside air.

(5) Using local energy costs.

(6) Using typical system efficiency.

AFTER-TAX CASH FLOW ANALYSIS

INPUT DATA:

| | |
|---|---------------|
| FIRST YEAR SAVINGS | \$4,855 /YEAR |
| INITIAL COST PLUS INSTALLATION | \$46,044 |
| MARGINAL TAX RATE | 0% |
| ESTIMATED ANNUAL INCREASE IN ENERGY COSTS | 3% |

| <u>YEAR</u> | <u>SAVINGS</u> | <u>DEPREC. COST</u> | <u>DEPREC. %</u> | <u>DEPREC. \$</u> | <u>NET AFTER-TAX CASH FLOW</u> |
|-------------|----------------|---------------------|------------------|-------------------|--------------------------------|
| 0 | | -46,044 | | | -46,044 |
| 1 | 4855 | - | 29 | 13353 | 4855 |
| 2 | 5001 | - | 20 | 9209 | 5001 |
| 3 | 5151 | - | 13 | 5986 | 5151 |
| 4 | 5305 | - | 10 | 4604 | 5305 |
| 5 | 5465 | - | 9 | 4144 | 5465 |
| 6 | 5629 | - | 9 | 4144 | 5629 |
| 7 | 5797 | - | 9 | 4144 | 5797 |
| 8 | 5971 | - | | | 5971 |
| 9 | 6150 | - | | | 6150 |
| 10 | 6335 | - | | | 6335 |

CALCULATIONS:

| | | |
|---|------------------------------------|---------|
| NET PRESENT VALUE = -\$25,133 ; 5 YEARS @ 15% | INTERNAL RATE OF RETURN (IRR) = | -16.4 % |
| NET PRESENT VALUE = -\$16,543 ; 10 YEARS @ 15% | INTERNAL RATE OF RETURN (IRR) = | 3.4 % |

NOTE:

Net After-tax Cash Flow is calculated as follows:

$$\text{NATCF} = \text{SAVINGS} - \text{COSTS} - \text{TAX RATE}(\text{SAVINGS} - \text{COSTS} - \text{DEPRECIATION})$$

Net Present Value is calculated as follows:

$$\text{NPV} = \text{C}(0) + \text{C}(1)/(1 + r) + \text{C}(2)/(1 + r)^2 + \dots + \text{C}(n)/(1 + r)^n$$

(where C(n) is the net cash flow for the nth year
and r is the opportunity cost of capital)

IRR is calculated by trial and error using the formula:

$$\text{NPV} = \text{C}(0) + \text{C}(1)/(1 + \text{IRR}) + \text{C}(2)/(1 + \text{IRR})^2 + \dots + \text{C}(n)/(1 + \text{IRR})^n$$