

# **State of Idaho Capital Assets Deferred Maintenance Liability**

## **Initial Report to the Governor**

November 15, 2021

Prepared by: Department of Administration

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## INTRODUCTION

On June 11, 2021, Governor Brad Little issued Executive Order No. 2021-10, Transparency in Budgeting. This Order, in part, tasked the Department of Administration (Department) to develop a report on state deferred maintenance liabilities in collaboration with the Permanent Building Fund Advisory Council (PBFAC) and any other parties necessary to accomplish this report.

Through his Executive Order, the Governor directed the Department to:

- Develop a consensus definition of deferred maintenance to improve measurement and enable better comparisons across state agencies and institutions.
- Inventory the current cost of deferred infrastructure maintenance liability for the state's capital assets by agency or institution, type of maintenance needed, and timeline necessary to address the maintenance.
- Recommend best practices in funding deferred maintenance needs, including considerations for endowing future maintenance costs with the initial funding of new capital assets; limiting new capital investments for state agencies and institutions that have significant deferred maintenance liabilities; and objectively evaluating the cost benefit of addressing deferred maintenance compared to asset replacement.
- Establish criteria for prioritization of project funding based on the criticality of the deferred maintenance.

The Department and its Division of Public Works is committed to implementing these requirements as quickly as possible. This report provides a review of the initial steps taken and ongoing plans to quantify and recommend solutions for the state's deferred maintenance liability.

## DEFERRED MAINTENANCE DEFINITION

Definitions related to deferred maintenance vary significantly, not only across the country, but across our state agencies as well. For example, some agencies and institutions add capital improvement projects and upgrades to their deferred maintenance backlog while others don't. Some of these projects may reflect their operational needs, but it can also skew the true cost of maintenance funding needed to keep our state assets in acceptable working condition.

In his Executive Order, the Governor recognized that it is imperative to develop a clear and concise definition of deferred maintenance that can be applied consistently across our agencies and institutions.

The National Association of State Facilities Administrators (NAFSA) and their members have conducted a significant amount of research and believe the impacts of deferred maintenance is a critical issue. In one of their white papers, NAFSA included a synopsis of a 2005 report prepared by the state of Virginia that included the following definition of deferred maintenance:

Deferred Maintenance occurs when the facility owner leaves maintenance, repairs, replacement, and renewal projects unperformed, due to a lack of resources or perceived low priority. Deferral of the activity results in a progressive deterioration of the facility condition or performance. The cost of the deterioration includes capital and operating costs and productivity losses. These will increase if the activity continues to be deferred.

This definition was selected and will be used to quantify maintenance deficiencies across the state.

## INVENTORY OF CURRENT DEFERRED MAINTENANCE LIABILITY

Each year, the state's agencies and institutions submit a Capital Budget Request to the Permanent Building Fund Advisory Council. This request includes a section for Alteration and Repair projects, which are typically related to an agency's deferred maintenance deficiencies. For example, in the FY2022 Capital Budget Request, 24 agencies and institutions submitted 263 Alteration and Repair projects for a total of \$95 million. While this is a substantial sum, it does not adequately represent the state's deferred maintenance liability. The agencies confirmed that they only submit on a few of their top priority projects because they know that the Permanent Building Fund is a finite revenue source and could not possibly cover all their requests. They also indicated that there are many buildings not represented in the capital plan that may have unfunded needs. Therefore, we were unable to predict the extent of the deferred maintenance backlog using historical capital budget information.

To obtain some preliminary information and comply with the reporting guidelines mandated by the Governor, the Department contacted all state agencies and institutions and requested the following:

- 1) A list of your agencies' facilities and associated square footage. Each facility should be prioritized by those most critical to the agencies' operations and for which a facility condition assessment would be beneficial.
- 2) A complete list with estimated costs of all deferred maintenance items, to the extent currently developed by your agency.
- 3) Access to any recent facility assessments that your organization has had performed in the past.

The Department received responses from 38 agencies and institutions. Several of the agencies reported that they occupied leased buildings or leased state buildings under the control of other agencies, such as the Department's Capitol Mall and Chinden campuses. Additionally, because Idaho Statute 67-5711 exempts the review of public works by the PBFAC to only the administrative office buildings for several agencies, only those spaces were included.

The preliminary report, shown in **Appendix B**, includes 28 agencies and institutions with approximately 27 million square feet of state-owned building space with a replacement value of over \$8 billion. The deferred maintenance liability reported by these agencies and institutions is approximately \$900 million.

It cannot be stressed enough that this estimated deferred maintenance liability is preliminary. It was self-reported by the agencies and institutions and in some cases were based on facility condition assessments that were up to a decade old. Additionally, some agencies do not have maintenance professionals on-staff to verify the maintenance deficiencies and scrutinize these costs. We believe these preliminary numbers significantly underestimate the true deferred maintenance backlog for the state.

## COMPREHENSIVE STATEWIDE FACILITY CONDITION ASSESSMENT

During our preliminary review of deferred maintenance in the state, we identified that there is no comprehensive inventory of state capital assets and their current condition. Some agencies and institutions have performed recent facility condition assessments, some had condition information from assessments performed up to a decade ago, and others had in-house generated lists of needed alteration and repair projects. Realizing the preliminary nature of these results and concerned with the potential inaccuracies of the reported data, the Department decided that the best approach to provide accurate and timely information to address the deferred maintenance backlog, was to implement a vendor-sourced facility condition assessment system (FCAS). The PBFAC agreed that it would be beneficial to have a single vendor that could perform the FCAS across a majority of the agencies and institutions to ensure a consistent and comparable approach.

The FCAS would involve executing a contract with a firm specialized in implementing facility condition assessments to include on-site inspections of the assets with the data populated into their FCA software. The FCAS database will maintain a complete inventory of an agency's assets to include the location, size, and acquisition date of each building, replacement value, and a detailed list and cost of maintenance deficiencies. Each deficiency will be individually classified by priority (urgency), category (cause), and system. The priorities will be based on its severity and the ideal timeframe for correction.

The FCAS will have an estimating module that can estimate the cost of each deficiency. Based on the total cost of deficiencies related to an asset divided by the replacement value of the asset, the system will calculate a facility condition index (FCI). The FCI is a ratio that measures the overall condition of an asset. The higher the ratio, the worse condition of the asset.

One of the most beneficial features of the FCAS is the ability for agencies and institutions to generate various funding scenarios for requirements, assets, or combinations of assets. The reports can focus on specific priority groupings, system groupings, or asset groupings, or any combination.

The Division of Public Works issued a request for qualifications (RFQ) for the first phase of a statewide facility condition assessment. The RFQ requested the services of facility professionals to perform assessments at the Capitol Mall and Chinden Campus.

The primary objective of the assessment is a physical inspection of the state's capital assets by qualified personnel to fully determine and document the condition of a facility or item of equipment and to identify repair, rehabilitation, and replacement needs and costs.

The RFQ was based on the following deliverables:

1. Identify the extent and severity of the deferred maintenance liability.
2. Identify and prioritize deferred maintenance reduction projects that best take advantage of available funds and improve the functional aspects of the campus and the facilities.
3. Identify the resources needed to maintain the operations, suitability, and value of the physical assets given their current function.
4. Identify building replacement costs and property/building condition indices.
5. Identify what is necessary to adapt the facilities to meet the requirements of the State of Idaho, the requirements of standards and codes, and the needs of changing technology as it impacts space.
6. Develop a tool that supports the planning process by providing readily accessible

facilities information for the State of Idaho, Department of Administration facilities decision making process.

7. Develop an up-to-date database that supports the above-mentioned goals and enables an ongoing process to manage plant assets and their functional use.

A contract was subsequently awarded to VFA/Accruent/Gordian (Gordian), who is one of several nationally recognized firms that specialize in the performance of facility condition assessments.

Gordian proposed the following four step approach to the project:

- Pre-Assessment Phase – Includes confirmation of scope and deliverables, schedule development, and review of DPW deliverables.
- Assessment Phase – Facility professionals perform on-site inspections of all capital assets to identify deficient conditions and assess the remaining lifecycle of designated asset systems. The teams will document requirements, including digital photographs of asset exteriors and any observed conditions within the assets.
- Post-Assessment Phase (Draft) – Gordian project manager will populate their VFA facility software system database with the field collected data. Draft reports are submitted to DPW for review and quality assurance.
- Post-Assessment Phase (Final) – Following DPW review of the draft reports, Gordian will incorporate the comments, make any adjustments to the reports, and submit the Final Property Condition Report.

Gordian has completed the Assessment Phase for both the Capitol Mall and Chinden Campus and are in the Post-Assessment Phase (Draft) for the Capitol Mall assets. A draft facility condition report is included in **Appendix C**. As shown on the report, the current deferred maintenance liability for the Capitol Mall assets is estimated to be approximately \$70 million.

DPW is in the process of working with Gordian and the state's agencies and institutions to plan the second phase of the facility condition assessments. Gordian's initial schedule to assess approximately 30 million square feet, with multiple agencies, across Idaho's vast regions, will most likely take up to 2 years to complete.

## RECOMMENDATIONS: Capital Planning and Management Software

As mentioned above, the VFA.facility capital planning and management software included with Gordian's FCAS, is a powerful tool that will allow agencies to maintain a current inventory and condition of their assets. The facility condition assessment information will be loaded into the database and each agency will have access to the system to run custom reports. However, the facility condition assessment data loaded into the system will be based on the currently identified maintenance deficiencies – a 'snap-shot in time'. This will provide the 'current' information that we are wanting, but like paper reports, will be static and the data obsolete in a short period of time.

Gordian offers VFA.facility as a subscription software package that will enable facility managers to keep their capital asset information up to date. As maintenance deficiencies are corrected or new assets constructed, the data can be uploaded into a living system. VFA.facility is a broader facility asset management system that can be used by facilities managers throughout the state for more than condition assessment.

The VFA.facility software's budgeting module will allow agencies to generate future funding models with various prioritizing strategies as they develop plans for capital improvements, replacements, and repairs. Facility managers for each agency will have access to the system to update their data and run reports. DPW will have access to all of the agencies' capital asset and deferred maintenance information and will be able to run capital budget scenarios on a statewide basis. The Gordian Executive Summary Report example, **Appendix D**, provides an illustration of funding scenarios.

Example Reports could include:

- Statewide Priority 1 Maintenance Deficiency Liabilities by Agency
- Statewide Asset Lists and Replacement Values
- Statewide Facility Condition Index Total and by Agency
- Funding Scenarios:
  - Annual funding required to maintain current FCI
  - Annual funding required to reduce FCI to 5% in ten years
  - Various funding levels and resulting impact to FCI

Gordian provided a quote of \$131,250 per year for the annual software subscription. This estimate is based on facility condition assessments being performed on 25 million square feet of capital assets. The software acquisition would include unlimited license users so each agency would be able to access the system. The cost would have an annual inflationary increase of 3% after the first year.

*Recommendation: We recommend the Governor consider and approve funding of \$131,250 per year for the VFA.facility software subscription.*



## RECOMMENDATIONS: Criteria for Prioritization of Projects

Once the statewide facility condition assessment is complete, the data will be organized into levels of hierarchy: Agencies, Locations, Assets, Assemblies, and Requirements. The requirements are maintenance deficiencies that will include systems or components that are unsafe, broken/damaged, can no longer perform the intended function, are approaching or have exceeded their useful life spans, or do not conform to current codes. Each requirement will be individually classified by priority (urgency), and category (cause) in the Gordian FCAS system.

Each requirement will be assigned a Priority that indicates its severity and the ideal time frame for correction as shown in the following:

Summary of Requirement Priorities	
1	Potentially critical (within 12 months)
2	Necessary - not yet critical (within 13-24 months)
3	Recommended (within 25-72 months)
4	Not Time Based

Additionally, each requirement will be assigned a category that indicates the cause or reason for the deficiency. The table below provides an example of the possible categories that will be included.

Category	Sub-category
Integrity	<ul style="list-style-type: none"> <li>• Lifecycle</li> <li>• Reliability</li> </ul>
Regulatory	<ul style="list-style-type: none"> <li>• Life Safety</li> <li>• Building Code</li> <li>• HazMat</li> <li>• Accessibility</li> </ul>
Optimization	<ul style="list-style-type: none"> <li>• Technological Improvements</li> <li>• Capacity</li> <li>• Mission</li> <li>• Maintenance</li> <li>• Abandoned</li> <li>• Energy</li> <li>• Sustainability</li> </ul>

A Facility Condition Index (FCI) will be calculated for each asset (building), which will provide an indication of the condition of the property. The FCI is calculated by dividing the deferred maintenance costs by the replacement value of the building. The lower the FCI value, the better the condition of the building. Gordian can approach FCI calculations in a couple different ways. First, the FCI is calculated using deferred maintenance costs of projects required in the first year (a 1-year priority offset). The second option is to calculate the FCI using deferred maintenance costs that would be required over a 5-year period (a 5-year priority offset). The tables below show a comparison of the condition levels of an asset based on FCI using the two approaches.

1-Year	
FCI	Rating
0 to 5%	Excellent
5.1% to 10%	Good
10.1% to 30%	Fair
Greater than 30%	Poor

FCI table represents FCI configured for 1-year Priority Offset.

5-Years	
FCI	Rating
0 to 10%	Excellent
10.1% to 20%	Good
20.1% to 60%	Fair
Greater than 60%	Poor

FCI table represents FCI configured for 5-year Priority Offset.  
(Tables used with permission from Gordian)

Utilizing the Priority and Category designations for each requirement, along with the FCI condition level for the asset, will be the primary method of prioritizing projects in the Gordian FCAS. Each agency will have access to the data with the ability to generate reports and assist in the preparation of their Capital Budget Requests. The reports can be configured to sort on the highest priority projects that are critical to the agency's operations.

DPW is also reviewing alternative methods to prioritize projects that are in addition to those included in the Gordian FCAS. The state's deferred maintenance backlog is significant, and it will take time to appropriate sufficient funding. It will be imperative to direct the funding we receive to the highest priority and critical projects. In addition to the approach described above, the state of Alaska has developed another category to further prioritize their projects. They have defined this category as a Mission Alignment Index, which identifies the importance of a facility in relation to an agency or institutions mission. This approach allows an agency to identify and prioritize funding requests for their highest priority projects in their most mission critical buildings.

***Recommendation:*** We recommend DPW, in collaboration with the PBFAC, consider these options and develop a uniform and consistent process for prioritizing deferred maintenance projects.

## RECOMMENDATIONS: Strategic Funding Approach

The State of Idaho has made a considerable investment to construct its vertical portfolio. An aging infrastructure and considerable deferred maintenance backlog, for whatever reason, impacts operations and is a detriment to the citizens we serve. The severity of the problem was confirmed by the preliminary deferred maintenance estimates provided by the agencies and institutions. Failure to address the current backlog would have exponential effects due to a cumulative deterioration to more building systems the longer the corrective action is postponed. This would result in even more significant future budget impacts and decrease the ability to mitigate the backlog.

The good news, however, is that the Governor and the Legislature are already implementing solutions to fix the problem. The Governor's Building Idaho's Future initiative, approved by the Legislature in an FY2021 Supplemental budget, appropriated an additional \$45 million to the Permanent Building Fund for Alteration and Repair Projects. The Governor's Executive Order 2021-10 and support of a statewide facilities condition assessment, show his continued commitment to identify and address the state's deferred maintenance liability.

While it is important to complete an assessment of the buildings to understand the deferred maintenance liability and associated budget impacts, it is evident that a mechanism needs to be established to eliminate the current liability through some combination of one-time and continuous funding. Additionally, new processes or policies should be developed to reduce or control these unavoidable and increasing fiscal liabilities in the future.

### 1. Increase Permanent Building Funds to Address Deferred Maintenance

#### Continuous Funding

Excluding the supplemental funding provided in FY2021, the amount of Permanent Building Fund (PBF) appropriation has averaged approximately \$44 million per year over the last 10 years. Of that, an average of approximately \$25 million per year was applied to alteration and repair projects

Using the agencies' self-reported deferred maintenance backlog of approximately \$900 million, which is most likely substantially underestimated, and assuming the entire PBF went solely toward deferred maintenance, it would take over 2 decades just to take care of the *current* backlog.

*Recommendation: We recommend the Governor and Legislature consider and approve options for an ongoing increase to the PBF.*

#### One-time Funding

Another option for consideration is a one-time appropriation into the PBF. This would have the most immediate impact on the deferred maintenance liability and protect the state's assets by mitigating further deterioration.

Gordian's FCAS includes a capital budget module to generate various funding models. As previously discussed, once the facility condition assessments are complete, a facility condition index (FCI) will be

calculated for each asset. These FCI's can also be summarized for an entire agency and the state. Based on the level of funding, various scenarios can be run to show the impact to the total FCI.

As an example, the **Appendix B: Agency Deferred Maintenance Preliminary Summary** indicates a total backlog of \$911,905,556 and a resulting overall FCI of 11%. Per Gordian's table, this is a 'Fair' condition rating.

#### **Funding Example 1 – Appropriate \$150,000,000 OT into the PBF**

<b><i>Agency / Institution</i></b>	<b><i>Capital Asset Sq. Ft.</i></b>	<b><i>Est. Building Replacement Cost</i></b>	<b><i>Preliminary Deferred Maint. Backlog</i></b>	<b><i>Preliminary FCI</i></b>
Statewide	26,627,865	\$8,036,493,421	\$911,905,556	11%
Supplemental Funding			<b>\$150,000,000</b>	
Balance and New FCI			\$761,905,556	<b>9%</b>

#### **Funding Example 2 – Appropriate \$250,000,000 OT into the PBF**

<b><i>Agency / Institution</i></b>	<b><i>Capital Asset Sq. Ft.</i></b>	<b><i>Est. Building Replacement Cost</i></b>	<b><i>Preliminary Deferred Maint. Backlog</i></b>	<b><i>Preliminary FCI</i></b>
Statewide	26,627,865	\$8,036,493,421	\$911,905,556	11%
Supplemental Funding			<b>\$250,000,000</b>	
Balance and New FCI			\$661,905,556	<b>8%</b>

Both examples show a significant improvement in the FCI score. Example 2, with a resulting FCI of 8%, would bring the state's assets solidly into the 'Good' condition category.

*Please keep in mind that until the facility condition assessments are completed and a professionally evaluated deferred maintenance backlog is quantified, these examples are hypothetical and subject to change.*

*Recommendation: We recommend the Governor and Legislature consider a one-time appropriation into the PBF to address the deferred maintenance backlog.*

## **2. Deferred Maintenance Repair vs. Asset Replacement**

There are a lot of factors to consider when deciding to maintain and repair or to replace an asset. In most cases, it is more economic to perform the repairs and capital renewals necessary to extend the life as long as possible. Deferred maintenance can drastically impact the life of the building and the associated cost may tip the scale toward replacement. Life cycle costing and cost-benefit analysis play a big role in making this decision.

Gordian's FCAS will identify the total cost of deferred maintenance requirements of each asset in an agency or institution's portfolio and calculate an FCI score. The FCI is an industry standard measurement of the condition of an asset. It is calculated by dividing the total cost of maintenance requirements of an asset by the replacement value of an asset. A couple of approaches can be used. As stated previously, the FCI can be calculated using the total cost of maintenance requirements needing to be completed immediately (a 1-year offset) or the FCI can be calculated using the total cost of requirements anticipated over a 5-year period (a 5-year offset). Due to the length of funding cycles in state government, DPW has chosen to use the 5-year offset. With this approach, Gordian's table below provides the condition levels based on the FCI percentage.

5-Years	
FCI	Rating
0 to 10%	Excellent
10.1% to 20%	Good
20.1% to 60%	Fair
Greater than 60%	Poor

FCI table represents FCI configured for 5-year Priority Offset

When the condition of an asset nears the 'Poor' rating and reaches a point where it is time to start replacing major systems or the maintenance costs become excessive, the agency should perform a life cycle analysis including functional and operational costs. The analysis will determine whether it is more cost beneficial to complete the deferred maintenance repairs and system renewals or to replace the building with a newer, more efficient facility.

Other factors that need to be considered when making this decision include:

- An asset is near or beyond its expected life;
- The repair/refurbishment costs exceed the life cycle cost of an asset replacement;
- The asset's performance has been unacceptable and corrective maintenance measures will not lead to acceptable performance;
- Additional asset capability is required;
- The existing equipment is technologically obsolete, spare parts are expensive or hard to get, and skill requirements to properly repair and maintain are hard to find;
- The existing equipment poses an unacceptable security risk, health and safety risk, or environmental risk and the cost to mitigate the risk exceeds the asset life cycle replacement cost.
- Impact of moving
- Ability to fund new construction,
- Location and impact on the local economy

**Recommendation:** We recommend DPW, in collaboration with the PBFAC, consider policies to require agencies and institutions to prepare life cycle and cost benefit analysis on assets with an FCI at 60% or higher prior to approving alteration and repair funds.

### 3. Limit New Capital Investment / Significant Deferred Maintenance

The Executive Order requires a consideration of policies to limit new capital investments for state agencies and institutions that have significant deferred maintenance liabilities. A review of the agency reported preliminary summary of deferred maintenance shows an agency FCI range of 0% up to 39% and an overall State FCI of 12%. For the most part, these levels are in the 'Excellent to Fair' condition level across the State's asset portfolio.

As previously stated, the data presented is preliminary and most likely does not represent an accurate picture of the State's deferred maintenance liability. To fully explore options related to this consideration, it will be necessary to have a complete understanding of each agencies' maintenance backlog.

Additionally, we believe the decision to limit an agency's request for a new capital asset would be a policy decision that would need to be weighed against a multitude of factors to determine what is the most beneficial to the state. Such as:

- Will the new capital asset have a positive economic benefit to the State?
- Is the new capital asset required to fulfill the State's mission to the public?
- What is the agency's deferred maintenance liability, is there a plan in place to correct, and has sufficient funding been provided?

This discussion will require a broader audience to include the Governor's office, Legislature, Agency directors, and Institution presidents.

*Recommendation: Complete the Gordian Facility Condition Assessment. Collaborate with relevant stakeholders on a final recommendation to limit use of PBF funds for new capital investments until certain metrics are accomplished.*

### 4. Endow Future Maintenance Costs

The primary objective of the Executive Order is to quantify the State's deferred maintenance liability and to explore ways to reduce the current backlog through funding and other options. As we figure out the long-term plans to mitigate this current liability, it is important to put measures in place to ensure this does not happen in the future. The State of Idaho is in the midst of an unprecedented population growth, which will have an associated increase in state government services. Every state agency and institution have felt the impact. This growth will most likely result in additional capital asset funding requests.

In the previous funding recommendations, we discussed the possibility of increasing the PBF. This will help resolve some of the current deferred maintenance liability, but the problem is how do we plan for future maintenance renewal needs on new capital assets. Our research has shown that some states have set up capital renewal reserve funds. The amount of funds set aside in the reserve fund are based on an agency's life cycle cost model for each new asset to ensure adequate funding of capital maintenance needs over the life of the building. The fund is set up as a non-reverting, reserve fund to retain funds to carry out all capital renewal maintenance activities for all agencies with the funding tied to the original financing of the capital asset.

One of our challenges is that there are several methods that agencies and institutions can use to fund

capital assets that are outside of the traditional Legislative budget process. For example, the universities and some agencies have constructed facilities funded entirely by grants, gifts, or by their Foundations.

We believe a dedicated reserve fund to protect future state assets is essential. This would also be a policy decision requiring further discussion between the Governor's office, Legislature, Agency directors, and Institution presidents.

*Recommendation: We recommend the Governor consider establishing a committee to review and implement a dedicated capital renewal reserve fund.*

## **Appendix A: Executive Order No. 2021-10**





*Executive Department  
State of Idaho*

*State Capitol  
Boise*

**EXECUTIVE DEPARTMENT  
STATE OF IDAHO  
BOISE**

***EXECUTIVE ORDER NO. 2021-10***

***TRANSPARENCY IN BUDGETING***

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WHEREAS, the State of Idaho is currently leading the nation in economic recovery, with revenue collection exceeding pre-pandemic forecasts; and

WHEREAS, the state has a constitutional obligation to have a balanced budget, and it is critical that the state maintain a structurally balanced budget, in which ongoing expenditures do not exceed ongoing revenues; and

WHEREAS, historic and unsustainable levels of federal spending during COVID-19 account for a portion of the state's recent revenue collections and it is important to ensure this short-term revenue collection enhancement does not impede wise long-term budget decision-making; and

WHEREAS, a multiyear expenditure forecast can help the state plan for various future economic conditions, enabling more transparent budgeting; and

WHEREAS, estimating the cost of deferred infrastructure maintenance liability for the state's capital assets can further transparency in budgeting and ensure the state is properly investing in preventative maintenance.

NOW, THEREFORE, I, Brad Little, Governor of the State of Idaho, by virtue of the authority vested in me by the constitution and laws of this state, do hereby direct that:

1. The Division of Financial Management (DFM) develop an expenditure forecast for five (5) state fiscal years. In developing the expenditure forecast, DFM shall:
  - a. Presume that current laws will remain unchanged and thus the forecast shall focus on what is necessary to maintain current operations.
  - b. Collaborate with agencies to forecast their major population and inflation-driven expenses.
  - c. Conduct a budget stress test comparing estimated future revenue to expenditures under various potential economic conditions.
  - d. Produce an initial report by January 11, 2022, outlining its preliminary findings and recommendations. DFM shall also identify the expenses necessary to improve and maintain a multiyear expenditure forecast.
2. The Department of Administration (Department) develop a report on state deferred maintenance liabilities in collaboration with the Permanent Building Fund Advisory Council and any other parties necessary to accomplish the report. In developing the report, the Department shall:
  - a. Develop a consensus definition of deferred maintenance to improve measurement and enable better comparisons across state agencies and institutions.
  - b. Inventory the current cost of deferred infrastructure maintenance liability for the state's capital assets by:
    - i. Agency or institution;
    - ii. Type of maintenance needed; and
    - iii. Timeline necessary to address the maintenance.
  - c. Recommend best practices in funding deferred maintenance needs, including:

- i. Considerations for endowing future maintenance costs with the initial funding of new capital assets;
    - ii. Limiting new capital investments for state agencies and institutions that have significant deferred maintenance liabilities until certain policies are in place; and
    - iii. Objectively evaluating the cost benefit of addressing deferred maintenance compared to asset replacement.
  - d. Establish criteria for prioritization of project funding based on the criticality of the deferred maintenance.
  - e. Produce an initial report by November 15, 2021, outlining its preliminary findings and recommendations. The Department shall also identify the expenses necessary to improve and produce an annual report on deferred maintenance liabilities.
3. State agencies and institutions shall cooperate with DFM and the Department and provide all information necessary to carry out the scope of this executive order.



*IN WITNESS WHEREOF, I have hereunto set my hand and caused to be affixed the Great Seal of the State of Idaho in Boise on this 11<sup>th</sup> day of June in the year of our Lord two thousand twenty-one.*

A blue ink signature of Brad Little, written in a cursive style.

BRAD LITTLE  
GOVERNOR

A blue ink signature of Lawrence Denney, written in a cursive style.

LAWRENCE DENNEY  
SECRETARY OF STATE

## **Appendix B: Agency Preliminary Deferred Maintenance Summary**

## Agency Deferred Maintenance Liability

### Preliminary Summary

Agency / Institution	Capital Asset Sq. Ft.	Est. Building Replacement Cost	Preliminary Deferred Maint. Backlog	Preliminary FCI
ADMINISTRATION, DEPARTMENT OF - Capitol Mall Campus	1,242,555	\$600,109,190	\$70,469,261	12%
ADMINISTRATION, DEPARTMENT OF - Chinden Campus	1,583,083	\$372,865,605	\$17,084,350	5%
AGRICULTURE, DEPARTMENT OF	69,192	\$29,089,264	\$1,203,577	4%
BLIND COMMISSION	31,200	\$12,450,871	TBD	
CORRECTION, DEPARTMENT OF	1,614,236	\$638,021,865	\$122,066,381	19%
FISH AND GAME, DEPARTMENT OF (Administrative Offices Only)	233,648	\$62,803,500	\$335,000	1%
HEALTH & WELFARE, DEPARTMENT OF	626,761	\$177,882,597	\$3,634,000	2%
IDAHO STATE HISTORICAL SOCIETY	333,552	\$49,402,172	\$19,228,000	39%
IDAHO STATE POLICE	273,202	\$73,435,470	\$2,348,000	3%
JUVENILE CORRECTIONS, DEPARTMENT OF	248,600	\$56,336,474	\$150,000	0%
LABOR, DEPARTMENT OF (Administrative Offices Only)	215,483	\$38,116,718	\$2,001,479	5%
LANDS, DEPARTMENT OF	362,937	\$31,923,812	\$2,525,679	8%
LIQUOR, IDAHO STATE	92,893	\$15,965,707	\$600,000	4%
MILITARY, DIVISION OF (Total Liability \$16,326,160, State Portion Shown)	556,290	\$211,797,584	\$6,006,100	3%
PARKS & RECREATION, DEPARTMENT OF (Administrative Offices Only)	117,553	\$29,305,942	\$5,115,000	17%
TRANSPORTATION, DEPARTMENT OF (Administrative Offices Only)	447,775	\$72,288,774	\$4,476,000	6%
VETERANS SERVICES, DIVISION OF	270,812	\$68,323,593	\$1,129,306	2%
WATER RESOURCES, DEPARTMENT OF	54,355	\$10,556,343	\$309,287	3%
EDUCATION, STATE BOARD OF	144,728	\$90,335,000		
BOISE STATE UNIVERSITY	5,441,098	\$1,541,436,364	\$52,000,000	3%
IDAHO STATE UNIVERSITY	3,782,538	\$1,357,149,748	\$287,139,836	21%
UNIVERSITY OF IDAHO	5,380,168	\$1,625,397,759	\$247,570,000	15%
LEWIS-CLARK STATE COLLEGE	855,728	\$208,927,358	\$19,080,223	9%
NORTH IDAHO COLLEGE	802,924	\$168,715,981	\$7,064,850	4%
COLLEGE OF EASTERN IDAHO	247,547	\$69,313,160	\$6,959,777	10%
COLLEGE OF SOUTHERN IDAHO	992,204	\$277,817,120	\$20,573,233	7%
COLLEGE OF WESTERN IDAHO	387,635	\$108,537,800	\$10,806,217	10%
IDAHO EDUCATIONAL SERVICES FOR THE DEAF AND THE BLIND	219,168	\$38,187,650	\$2,030,000	5%
Totals	26,627,865	\$8,036,493,421	\$911,905,556	11%

## **Appendix C: Capitol Mall Draft Facility Condition Assessment**



# Asset List Report By Name

Reporting Currency: USD  
Adjustment Factor: 0%

Agency Name: State of Idaho

Campus Name: Capitol Mall

Asset	Number	Age	Use	Size	Replacement Value	Cost/ Unit	FCI Cost	FCI	RI Cost	RI
Asset Type: Building										
954 Jefferson	1	73	Office	41,641	10,441,820	251	1,686,218	0.16	1,832,436	0.18
Alexander House	2	124	Office	3,874	1,261,276	326	170,699	0.14	195,173	0.15
Borah	3	118	Office	79,975	25,139,171	314	7,284,114	0.29	7,634,527	0.30
Capitol Annex	12	101	Office	64,000	31,112,907	486	2,509,745	0.08	2,509,745	0.08
Capitol Building	13	112	Other special facilities	249,583	325,000,000	1,302	4,597,949	0.01	4,597,949	0.01
DPW (Public Works)	9	93	Office	10,845	2,998,837	277	245,267	0.08	282,056	0.09
Joe R. Williams	4	46	Office	141,168	40,985,822	290	12,479,465	0.30	12,494,702	0.30
Len B Jordan	5	53	Office	96,906	30,722,427	317	10,167,892	0.33	10,581,810	0.34
Parking Garage #1	6	48	Other special facilities	145,640	27,349,710	188	7,036,471	0.26	7,036,471	0.26
Parking Garage #2	7	8	Other special facilities	138,736	23,096,944	166	627,488	0.03	627,488	0.03
Pete T. Cenarrusa	8	43	Office	169,128	48,932,806	289	16,552,553	0.34	16,552,553	0.34



## Asset List Report By Name

Asset	Number	Age	Use	Size	Replacement Value	Cost/ Unit	FCI Cost	FCI	RI Cost	RI
State Library	10	51	Other special facilities	36,309	12,825,154	353	3,134,851	0.24	3,548,769	0.28
Supreme Court	11	51	Courthouse	64,750	20,242,317	313	3,976,551	0.20	3,976,551	0.20
Subtotal for Building				1,242,555	600,109,190	483	70,469,261	0.12	71,870,230	0.12
Campus Name: Capitol Mall					600,109,190		70,469,261	0.12	71,870,230	0.12
Agency Name: State of Idaho					600,109,190		70,469,261	0.12	71,870,230	0.12
Summary					600,109,190		70,469,261	0.12	71,870,230	0.12

## Top 10 Assets by FCI and FCI Cost

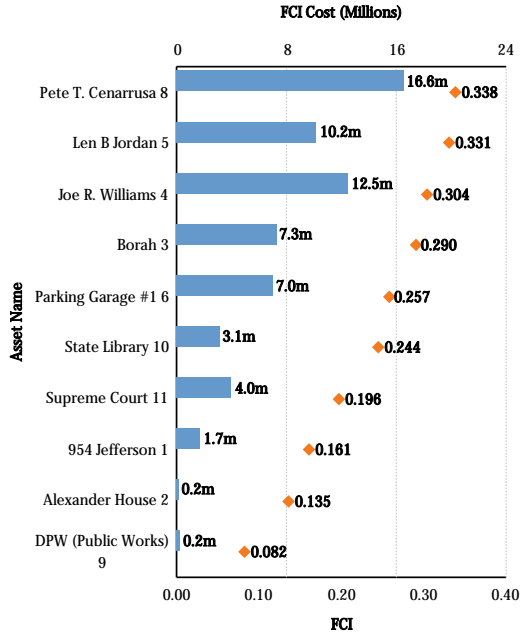
Agency: State of Idaho

Campus: Capitol Mall

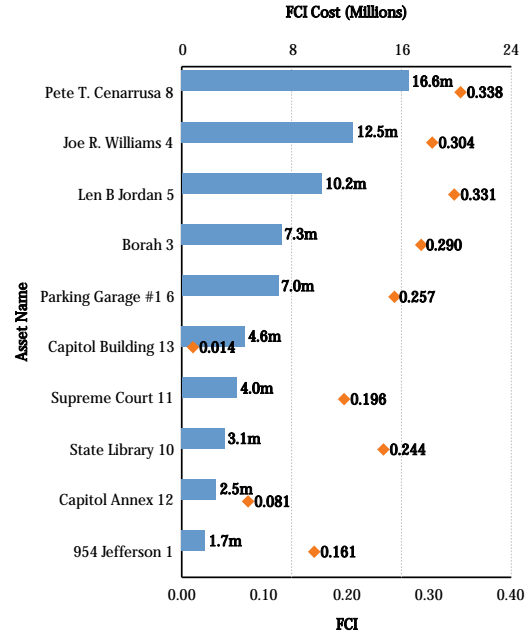
Assets: 954 Jefferson, Alexander House, Borah, Capitol Annex, Capitol Building, DPW (Public Works), Joe R. Williams, Len B Jordan, Parking Garage #1, Parking Garage #2, Pete T. Cenarrusa, State Library, Supreme Court

Currency: USD

Buildings Ranked by FCI



Buildings Ranked by FCI Cost



Notes:

- Facility Condition Index (FCI) is calculated as Deferred Maintenance Costs divided by Asset Replacement Value.
- **FCI Cost** refers to deferred maintenance costs, which include the cost of Requirements for which 1) the Requirement Category is an FCI category, and 2) the Recommended Action Date (or Override Action Date, if provided) occurs either in the past or within the "Future Years Included" window. These settings are found in the Configuration for FCI Settings.





# Requirement Forecast Report

*By Name*

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# Requirement Forecast Report

## By Name

Agency: State of Idaho

Campus: Capitol Mall

Asset: All

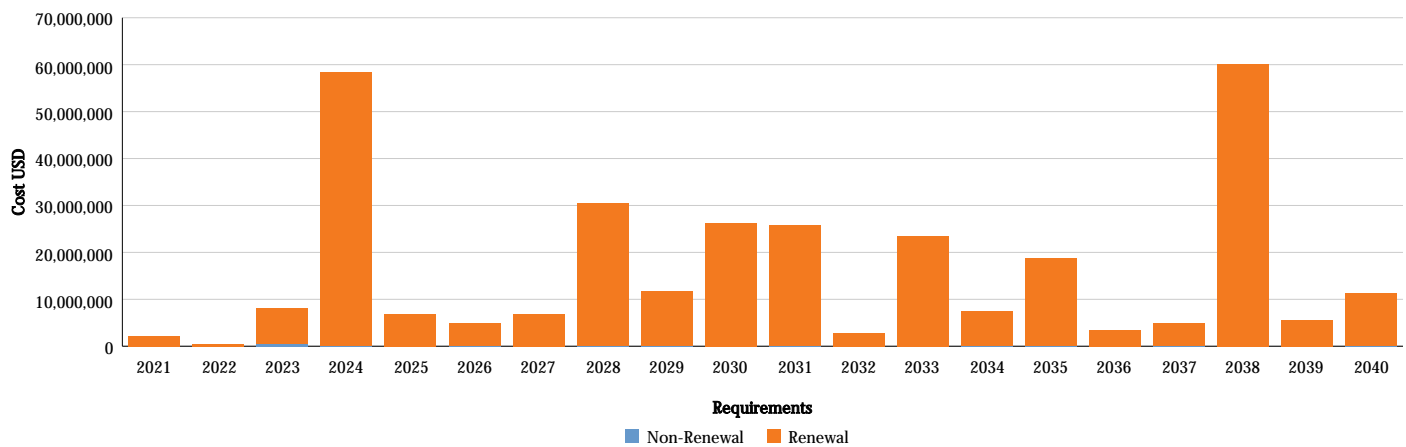
Currency: USD

Period: 20 years

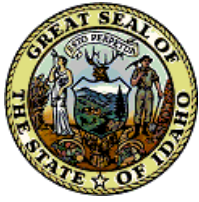
Inflation: 4.70%

The current year is always the Period start date. If "Include past due Action Dates/Renewals" is selected, the cost of those past due Requirements is included in the current year cost.

### Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2021	2,223,930	0	2,223,930
2022	492,288	488	497,169
2023	7,626,273	458,851	8,085,124
2024	58,311,062	0	58,311,062
2025	6,905,262	0	6,905,262
2026	4,854,329	24,409	4,878,739
2027	6,858,831	0	6,858,831
2028	30,440,708	0	30,440,708
2029	11,666,726	0	11,666,726
2030	26,220,384	0	26,220,384
2031	25,678,197	0	25,678,197
2032	2,827,156	0	2,827,156
2033	23,469,034	0	23,469,034
2034	7,370,182	0	7,370,182
2035	18,671,671	0	18,671,671
2036	3,478,873	0	3,478,873
2037	4,839,346	0	4,839,346
2038	60,163,562	0	60,163,562
2039	5,580,904	0	5,580,904
2040	11,242,719	0	11,242,719
Total	318,921,440	488,142	319,409,581



# Requirement Forecast Report

*By Name*

Agency: State of Idaho

Asset: 954 Jefferson

Campus: Capitol Mall

Asset Number: 1

Report is grouped by Year

Currency: USD

Address 1	954 Jefferson	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

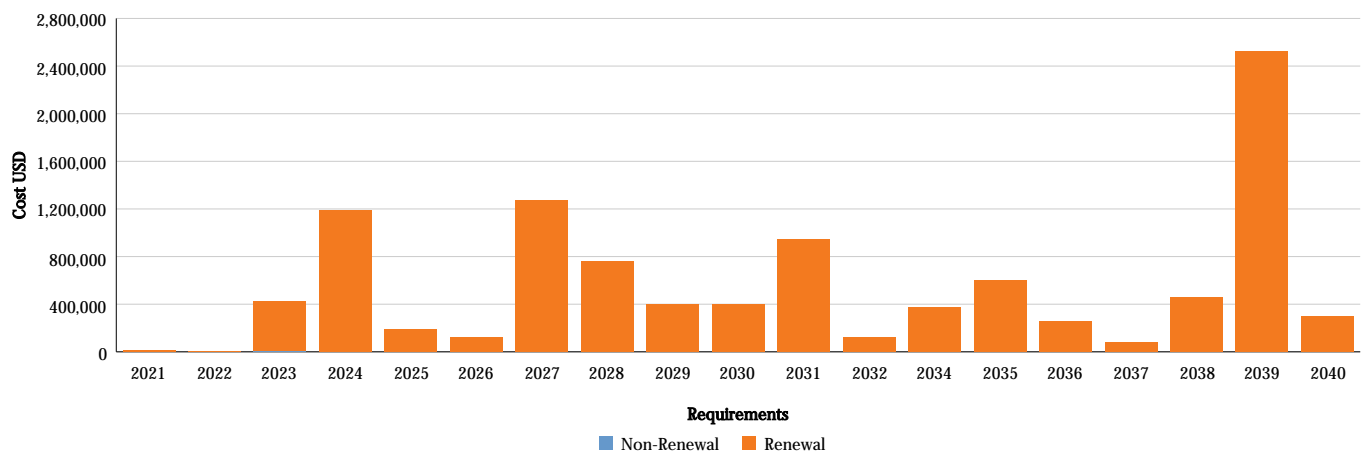
Current Replacement Value

10,441,820

Size

41,641 SF

## Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2021	14,475	0	14,475
2022	0	2,169	2,169
2023	414,794	5,636	420,430
2024	1,185,987	0	1,185,987
2025	189,817	0	189,817
2026	119,333	0	119,333
2027	1,275,343	0	1,275,343
2028	761,985	0	761,985
2029	401,194	0	401,194
2030	401,435	0	401,435
2031	941,324	0	941,324
2032	117,801	0	117,801
2034	375,660	0	375,660
2035	598,960	0	598,960
2036	253,744	0	253,744



# Requirement Forecast Report

## By Name

Year	Renewal Requirements	Non-Renewal Requirements	Total
2037	78,101	0	78,101
2038	455,487	0	455,487
2039	2,525,170	0	2,525,170
2040	298,434	0	298,434
<b>Total</b>	<b>10,409,043</b>	<b>7,805</b>	<b>10,416,848</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2021	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	14,475	0	14,475
<b>Subtotal for 2021</b>			<b>14,475</b>	<b>0</b>	<b>14,475</b>
2022	D4010 - Sprinklers	Fire Protection - Sprinkler Discharge Pattern Obstructed	0	2,169	2,169
<b>Subtotal for 2022</b>			<b>0</b>	<b>2,169</b>	<b>2,169</b>
2023	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-7 Renewal	7,996	0	7,996
	D5021 - Branch Wiring Devices	Branch Circuit Wiring - Noncompliant Outdoor Receptacle Outlet Covers - Roof	0	813	813
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-9 Renewal	9,949	0	9,949
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-6 Renewal	9,949	0	9,949
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-11 Renewal	7,996	0	7,996
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 6 Ton - AC-13 Renewal	13,326	0	13,326
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-4 Renewal	7,996	0	7,996
	D5037 - Fire Alarm Systems	Fire Alarm Initiation Devices - Lacking Manual Fire Alarm Boxes at Floor Exit	0	2,487	2,487
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-2 Renewal	9,949	0	9,949
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-1 Renewal	9,949	0	9,949
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-10 Renewal	9,949	0	9,949
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 15 Ton - AC-12 Renewal	31,603	0	31,603
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-3 Renewal	7,996	0	7,996
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-5 Renewal	9,949	0	9,949
	D5021 - Branch Wiring Devices	Branch Wiring System - HVAC Units Lacking GFCI Receptacles (Roof)	0	1,094	1,094
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-8 Renewal	7,996	0	7,996
	D5037 - Fire Alarm Systems	Fire Alarm Initiation Devices - Lacking Smoke Detector in Basement Elevator Landing	0	1,028	1,028
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 10 Ton - AC-14 Renewal	23,191	0	23,191
	D5021 - Branch Wiring Devices	Branch Wiring System - Lacking GFCI Receptacle at Water Cooler	0	213	213
	D2020 - Domestic Water Distribution	Domestic Water Distribution Piping Renewal	246,998	0	246,998
<b>Subtotal for 2023</b>			<b>414,794</b>	<b>5,836</b>	<b>420,430</b>
2024	D3050 - Terminal and Package Units	Computer Room Cooling - DX w/Air Cooled Remote Condenser Renewal	130,377	0	130,377
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	42,302	0	42,302
	D3050 - Terminal and Package Units	Unit and Cabinet Unit Heaters - Electric Renewal	21,497	0	21,497
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System Renewal	39,851	0	39,851
	D1011 - Passenger Elevators	Traction Geared Passenger Elev - No.1 - 2000 LB Renewal	303,600	0	303,600
	D3050 - Terminal and Package Units	Split System Heat Pump - 2 Ton Renewal	5,800	0	5,800
	D2010 - Plumbing Fixtures	Sinks - Custodial/Utility Renewal	17,119	0	17,119
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use - 2014 Renewal	1,768	0	1,768
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	149,783	0	149,783



# Requirement Forecast Report

## *By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2024	D3030 - Cooling Generating Systems	Chiller - Air-Cooled - 40 Tons Renewal	92,641	0	92,641
	D5038 - Security and Detection Systems	Security System - Access Control System - 2001 Renewal	52,204	0	52,204
	D5037 - Fire Alarm Systems	Fire Alarm System - Head End Control Equipment - Zoned Renewal	85,540	0	85,540
	D2020 - Domestic Water Distribution	Water Heater - Elec - Comm - 120 Gal Renewal	33,402	0	33,402
	D5033 - Telephone Systems	Telephone System Renewal	141,042	0	141,042
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	63,588	0	63,588
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Soffits Renewal	3,068	0	3,068
	D20 - Plumbing	Sump Pumps - Rm B109 Renewal	2,401	0	2,401
<b>Subtotal for 2024</b>			<b>1,185,987</b>	<b>0</b>	<b>1,185,987</b>
2025	D5038 - Security and Detection Systems	Security System - Video Intercom System Renewal	8,139	0	8,139
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units - 2015 Renewal	45,560	0	45,560
	D5038 - Security and Detection Systems	Security System - CCTV - 2015 Renewal	110,235	0	110,235
	D1011 - Passenger Elevators	Traction Gearless Passenger Elevator - Cab Finishes Renewal	25,883	0	25,883
<b>Subtotal for 2025</b>			<b>189,817</b>	<b>0</b>	<b>189,817</b>
2026	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	119,333	0	119,333
	<b>Subtotal for 2026</b>		<b>119,333</b>	<b>0</b>	<b>119,333</b>
2027	D3060 - Controls and Instrumentation	DDC/Pneumatic Controls - Hybrid Renewal	471,480	0	471,480
	C3020 - Floor Finishes	Carpeting - Broadloom - 2nd Floor Offices Renewal	231,863	0	231,863
	D2020 - Domestic Water Distribution	Water Heaters - Elec - Point of Use - 2017 Renewal	4,058	0	4,058
	C3030 - Ceiling Finishes	ACT System Renewal	567,941	0	567,941
<b>Subtotal for 2027</b>			<b>1,275,343</b>	<b>0</b>	<b>1,275,343</b>
2028	B3010 - Roof Coverings	Modified Bitumen Renewal	487,568	0	487,568
	D5038 - Security and Detection Systems	Security System - Access Control System - 2018 Renewal	62,733	0	62,733
	D2030 - Sanitary Waste	Sanitary Waste - Gravity Discharge Renewal	211,685	0	211,685
<b>Subtotal for 2028</b>			<b>761,985</b>	<b>0</b>	<b>761,985</b>
2029	C3020 - Floor Finishes	Ceramic Floor Tile - Restrooms Renewal	10,415	0	10,415
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Sidewalk - 4-Ft. Wide Renewal	14,090	0	14,090
	C1035 - Identifying Devices	Fittings - Signage Renewal	23,306	0	23,306
	G2049 - Miscellaneous Structures	Pipe Bollards Renewal	20,355	0	20,355
	C3030 - Ceiling Finishes	Painted Finish on Exposed Concrete Ceiling Structure Renewal	14,216	0	14,216
	B2030 - Exterior Doors	Exterior Doors - Single - Hollow Metal Renewal	6,307	0	6,307
	B2030 - Exterior Doors	Exterior Doors - Pair - Aluminum - Glazed Renewal	35,942	0	35,942
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards, Transformers and Feeders - 480Y/277V & 208Y/120V, 3PH Renewal	247,502	0	247,502
	C1030 - Fittings	Restroom Accessories Renewal	29,061	0	29,061
<b>Subtotal for 2029</b>			<b>401,194</b>	<b>0</b>	<b>401,194</b>
2030	C3010 - Wall Finishes	Painted Finish Renewal	21,934	0	21,934
	B2010 - Exterior Walls	Exterior Coatings - Painted Finish Renewal	16,908	0	16,908
	B2010 - Exterior Walls	Exterior Sealants Renewal	91,408	0	91,408
	D5039 - Local Area Networks	LAN & VoIP System Renewal	271,185	0	271,185
<b>Subtotal for 2030</b>			<b>401,435</b>	<b>0</b>	<b>401,435</b>



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2031	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV Renewal	242,665	0	242,665
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	204,598	0	204,598
	B2010 - Exterior Walls	Exterior Closure - CIP Concrete Walls - Plain Renewal	137,036	0	137,036
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Hot Water Renewal	204,598	0	204,598
	B2010 - Exterior Walls	Exterior Closure - Brick Veneer Walls Renewal	152,427	0	152,427
		<b>Subtotal for 2031</b>	<b>941,324</b>	<b>0</b>	<b>941,324</b>
2032	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	117,801	0	117,801
		<b>Subtotal for 2032</b>	<b>117,801</b>	<b>0</b>	<b>117,801</b>
2034	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	66,962	0	66,962
	D5033 - Telephone Systems	Telephone System Renewal	223,262	0	223,262
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use - 2014 Renewal	2,799	0	2,799
	D5038 - Security and Detection Systems	Security System - Access Control System - 2001 Renewal	82,637	0	82,637
		<b>Subtotal for 2034</b>	<b>375,660</b>	<b>0</b>	<b>375,660</b>
2035	D5038 - Security and Detection Systems	Security System - CCTV - 2015 Renewal	174,496	0	174,496
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units - 2015 Renewal	72,119	0	72,119
	C3020 - Floor Finishes	VCT Renewal	9,755	0	9,755
	D5092 - Emergency Light and Power Systems	Exit Signs - LED Renewal	67,038	0	67,038
	B2010 - Exterior Walls	Exterior Closure - Stucco Finish Renewal	67,957	0	67,957
	D5038 - Security and Detection Systems	Security System - Video Intercom System Renewal	12,883	0	12,883
	C1020 - Interior Doors	Interior Doors - Hollow Metal Renewal	30,612	0	30,612
	C3020 - Floor Finishes	Rubber Tile - Stair Landings Renewal	7,167	0	7,167
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - T8 - General Overhead - 2015 Renewal	156,932	0	156,932
		<b>Subtotal for 2035</b>	<b>598,960</b>	<b>0</b>	<b>598,960</b>
2036	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	13,161	0	13,161
	D4010 - Sprinklers	Sprinkler System - Wet - Light Hazard Renewal	236,416	0	236,416
	D20 - Plumbing	Sump Pumps - Rm B109 Renewal	4,167	0	4,167
		<b>Subtotal for 2036</b>	<b>253,744</b>	<b>0</b>	<b>253,744</b>
2037	D2020 - Domestic Water Distribution	Water Heaters - Elec - Point of Use - 2017 Renewal	6,424	0	6,424
	D3040 - Distribution Systems	HVAC Pump - Hot Water - In-Line - 5 HP Renewal	71,677	0	71,677
		<b>Subtotal for 2037</b>	<b>78,101</b>	<b>0</b>	<b>78,101</b>
2038	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	22,003	0	22,003
	D5038 - Security and Detection Systems	Security System - Access Control System - 2018 Renewal	99,302	0	99,302
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-1 Renewal	19,815	0	19,815
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-3 Renewal	15,925	0	15,925
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-9 Renewal	19,815	0	19,815
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-2 Renewal	19,815	0	19,815
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 6 Ton - AC-13 Renewal	26,540	0	26,540
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-6 Renewal	19,815	0	19,815
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-5 Renewal	19,815	0	19,815
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 15 Ton - AC-12 Renewal	62,940	0	62,940



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2038	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-8 Renewal	15,925	0	15,925
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-4 Renewal	15,925	0	15,925
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 4 Ton - AC-10 Renewal	19,815	0	19,815
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-7 Renewal	15,925	0	15,925
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 3 Ton - AC-11 Renewal	15,925	0	15,925
	D3050 - Terminal and Package Units	Packaged Rooftop Unit - CV - w/Gas Heat - 10 Ton - AC-14 Renewal	46,188	0	46,188
		Subtotal for 2038	455,487	0	455,487
2039	D5037 - Fire Alarm Systems	Fire Alarm System - Head End Control Equipment - Zoned Renewal	170,360	0	170,360
	D2020 - Domestic Water Distribution	Water Heater - Elec - Comm - 120 Gal Renewal	66,524	0	66,524
	D2090 - Other Plumbing Systems	Natural Gas Supply for Bldg - 6" Feed Renewal	307,194	0	307,194
	D5021 - Branch Wiring Devices	Branch Wiring - Heat Tracing System - Roof Drains Renewal	25,526	0	25,526
	D3040 - Distribution Systems	HVAC Ductwork - Return Renewal	333,161	0	333,161
	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices - 1999 Renewal	564,557	0	564,557
	D3040 - Distribution Systems	HVAC Ductwork - Supply - Single Zone Renewal	555,269	0	555,269
	D3050 - Terminal and Package Units	Split System Heat Pump - 2 Ton Renewal	11,551	0	11,551
	D5012 - Low Tension Service and Dist.	Main Service Distribution Switchboard - 2000A, 480/277V, 3PH Renewal	414,515	0	414,515
	C1030 - Fittings	Toilet Partitions - Metal Renewal	33,699	0	33,699
D3050 - Terminal and Package Units	Unit and Cabinet Unit Heaters - Electric Renewal	42,814	0	42,814	
		Subtotal for 2039	2,525,170	0	2,525,170
2040	D1011 - Passenger Elevators	Traction Gearless Passenger Elevator - Cab Finishes Renewal	51,549	0	51,549
	C3020 - Floor Finishes	Carpeting - Tile Renewal	228,312	0	228,312
	C3030 - Ceiling Finishes	ACT System - Concealed Spline - Entrance Lobby Renewal	14,370	0	14,370
	C3020 - Floor Finishes	Vinyl Sheet Goods Renewal	4,203	0	4,203
		Subtotal for 2040	298,434	0	298,434
		Total	10,409,043	7,805	10,416,848





# Requirement Forecast Report

*By Name*

Agency: State of Idaho

Asset: Alexander House

Campus: Capitol Mall

Asset Number: 2

Report is grouped by Year

Currency: USD

Address 1	304 W. State	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

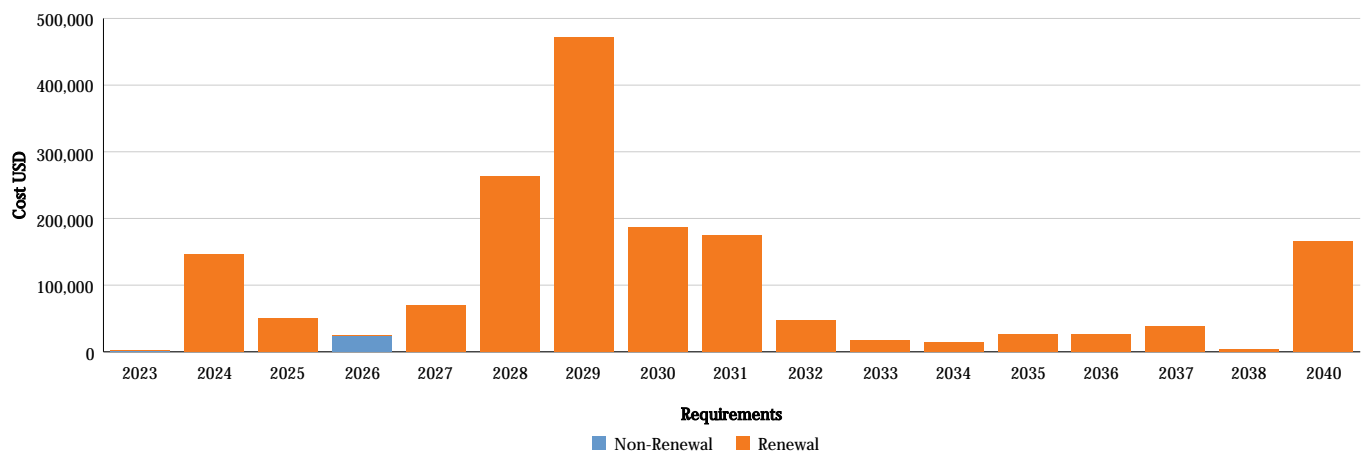
Current Replacement Value

1,261,276

Size

3,874 SF

## Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2023	0	1,239	1,239
2024	146,979	0	146,979
2025	49,880	0	49,880
2026	0	24,409	24,409
2027	70,207	0	70,207
2028	262,934	0	262,934
2029	471,188	0	471,188
2030	187,292	0	187,292
2031	174,321	0	174,321
2032	47,247	0	47,247
2033	16,509	0	16,509
2034	13,563	0	13,563
2035	25,782	0	25,782
2036	26,379	0	26,379
2037	37,611	0	37,611



# Requirement Forecast Report

*By Name*

Year	Renewal Requirements	Non-Renewal Requirements	Total
2038	4,016	0	4,016
2040	165,350	0	165,350
<b>Total</b>	<b>1,699,259</b>	<b>25,648</b>	<b>1,724,907</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2023	D5021 - Branch Wiring Devices	Outdoor - Noncompliant Receptacle Outlet Covers	0	1,239	1,239
		<b>Subtotal for 2023</b>	<b>0</b>	<b>1,239</b>	<b>1,239</b>
2024	B3010 - Roof Coverings	Wood Shake Roofing Renewal	131,822	0	131,822
	D2020 - Domestic Water Distribution	Water Heater - Elec - Residential - 60 Gal Renewal	8,568	0	8,568
	D3040 - Distribution Systems	Exhaust System - Restroom Renewal	1,961	0	1,961
	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	4,628	0	4,628
		<b>Subtotal for 2024</b>	<b>146,979</b>	<b>0</b>	<b>146,979</b>
2025	D5038 - Security and Detection Systems	Security System - Intrusion Alarm Renewal	8,072	0	8,072
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	4,121	0	4,121
	B2010 - Exterior Walls	Exterior Coatings - Painted Finish Renewal	37,688	0	37,688
		<b>Subtotal for 2025</b>	<b>49,880</b>	<b>0</b>	<b>49,880</b>
2026	B2010 - Exterior Walls	Exterior Trims & Moldings - Rotted	0	24,409	24,409
		<b>Subtotal for 2026</b>	<b>0</b>	<b>24,409</b>	<b>24,409</b>
2027	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Zoned Renewal	9,134	0	9,134
	B2010 - Exterior Walls	Exterior Trims and Moldings - Wood Renewal	54,902	0	54,902
	B2015 - Balcony Walls and Handrails	Exterior Railings - Wood Renewal	6,171	0	6,171
		<b>Subtotal for 2027</b>	<b>70,207</b>	<b>0</b>	<b>70,207</b>
2028	D2030 - Sanitary Waste	Sanitary Waste - Gravity Discharge Renewal	19,694	0	19,694
	D3040 - Distribution Systems	Perimeter Heat System - Hydronic CI Radiators Renewal	118,595	0	118,595
	D2020 - Domestic Water Distribution	Domestic Water Distribution Piping Renewal	28,911	0	28,911
	C1020 - Interior Doors	Interior Doors - Solid Wood - Historic Renewal	95,734	0	95,734
		<b>Subtotal for 2028</b>	<b>262,934</b>	<b>0</b>	<b>262,934</b>
2029	C3011 - Wall Finishes to Inside Exterior Walls	Plaster Finish - Inside Face of Exterior Walls Renewal	52,656	0	52,656
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Sidewalk - 4-Ft. Wide Renewal	7,045	0	7,045
	C3010 - Wall Finishes	Cornices, Trims and Moldings Renewal	35,908	0	35,908
	C3020 - Floor Finishes	Wood Flooring - Hardwood Strip Renewal	70,114	0	70,114
	C1010 - Partitions	Plaster on Stud Partitions Renewal	119,110	0	119,110
	B2010 - Exterior Walls	Exterior Closure - Wood Lap Siding Renewal	25,788	0	25,788
	B2020 - Exterior Windows	Wood Windows Renewal	101,989	0	101,989
	B2010 - Exterior Walls	Exterior Closure - Wood Shingle Siding Renewal	11,912	0	11,912
	C3020 - Floor Finishes	Ceramic Floor Tile - Older Renewal	13,887	0	13,887
	B2016 - Exterior Soffits	Wood Soffit System Renewal	19,426	0	19,426
	C1020 - Interior Doors	Interior Doors - Glazed Wood Renewal	13,351	0	13,351
		<b>Subtotal for 2029</b>	<b>471,188</b>	<b>0</b>	<b>471,188</b>
2030	B1015 - Exterior Stairs and Fire Escapes	Exterior Stairs - Wood Renewal	11,136	0	11,136
	B1014 - Ramps	Exterior Ramp - Accessible - Wood Renewal	13,019	0	13,019



# Requirement Forecast Report

## *By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2030	D2010 - Plumbing Fixtures	Restroom Fixtures - Shower - Individual Tiled Stall Renewal	25,439	0	25,439
	D5039 - Local Area Networks	LAN & VoIP System Renewal	25,229	0	25,229
	B2030 - Exterior Doors	Exterior Doors - Single - Wood Renewal	5,381	0	5,381
	B2030 - Exterior Doors	Exterior Doors - Single - Wood - Glazed Renewal	17,029	0	17,029
	C3010 - Wall Finishes	Wall Covering - Wallpaper - Premium Renewal	64,101	0	64,101
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	20,296	0	20,296
	C3010 - Wall Finishes	Painted Finish Renewal	5,661	0	5,661
<b>Subtotal for 2030</b>			<b>187,292</b>	<b>0</b>	<b>187,292</b>
2031	B2010 - Exterior Walls	Exterior Backup Wall - Wood Stud Renewal	16,011	0	16,011
	C3030 - Ceiling Finishes	Plaster Ceiling System - Painted Renewal	84,160	0	84,160
	B10 - Superstructure	Wood Frame - Residential Renewal	25,789	0	25,789
	B1015 - Exterior Stairs and Fire Escapes	Exterior Stairs - Concrete Renewal	10,756	0	10,756
	B2010 - Exterior Walls	Exterior Closure - Stucco Finish Renewal	16,418	0	16,418
	C2010 - Stair Construction	Interior Stairs - Wood Renewal	15,890	0	15,890
	A1010 - Standard Foundations	Foundation Wall and Footings - 8-Ft High Renewal	5,297	0	5,297
<b>Subtotal for 2031</b>			<b>174,321</b>	<b>0</b>	<b>174,321</b>
2032	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Steps Renewal	2,532	0	2,532
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	20,122	0	20,122
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - General Overhead Renewal	24,594	0	24,594
<b>Subtotal for 2032</b>			<b>47,247</b>	<b>0</b>	<b>47,247</b>
2033	D3030 - Cooling Generating Systems	Air-Cooled Condensing Unit - 2 Tons - 2nd Floor Renewal	8,254	0	8,254
	D3030 - Cooling Generating Systems	Air-Cooled Condensing Unit - 2 Tons - 1st Floor Renewal	8,254	0	8,254
<b>Subtotal for 2033</b>			<b>16,509</b>	<b>0</b>	<b>16,509</b>
2034	D2020 - Domestic Water Distribution	Water Heater - Elec - Residential - 60 Gal Renewal	13,563	0	13,563
<b>Subtotal for 2034</b>			<b>13,563</b>	<b>0</b>	<b>13,563</b>
2035	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem Renewal	1,139	0	1,139
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	6,523	0	6,523
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior Renewal	5,344	0	5,344
	D5038 - Security and Detection Systems	Security System - Intrusion Alarm Renewal	12,777	0	12,777
<b>Subtotal for 2035</b>			<b>25,782</b>	<b>0</b>	<b>25,782</b>
2036	D3050 - Terminal and Package Units	Furnace - Gas-Fired w/DX Coil - Attic Renewal	13,190	0	13,190
	D3050 - Terminal and Package Units	Furnace - Gas-Fired w/DX Coil - Basement Renewal	13,190	0	13,190
<b>Subtotal for 2036</b>			<b>26,379</b>	<b>0</b>	<b>26,379</b>
2037	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Geo-Thermal Renewal	37,611	0	37,611
<b>Subtotal for 2037</b>			<b>37,611</b>	<b>0</b>	<b>37,611</b>
2038	D3060 - Controls and Instrumentation	Electric Thermostats Renewal	4,016	0	4,016
<b>Subtotal for 2038</b>			<b>4,016</b>	<b>0</b>	<b>4,016</b>
2040	C1030 - Fittings	Restroom Accessories - Residential Renewal	13,042	0	13,042
	B2010 - Exterior Walls	Exterior Coatings - Painted Finish Renewal	75,058	0	75,058
	C3020 - Floor Finishes	Carpeting - Broadloom - Premium Renewal	32,259	0	32,259
	C3020 - Floor Finishes	Ceramic Floor Tile - Newer Renewal	23,975	0	23,975
	C3020 - Floor Finishes	Vinyl Sheet Goods Renewal	21,015	0	21,015
<b>Subtotal for 2040</b>			<b>165,350</b>	<b>0</b>	<b>165,350</b>
<b>Total</b>			<b>1,699,259</b>	<b>25,848</b>	<b>1,724,907</b>



# Requirement Forecast Report

## By Name

Agency: State of Idaho

Asset: Borah

Campus: Capitol Mall

Asset Number: 3

Report is grouped by Year

Currency: USD

Address 1	304 N. 8th Street	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

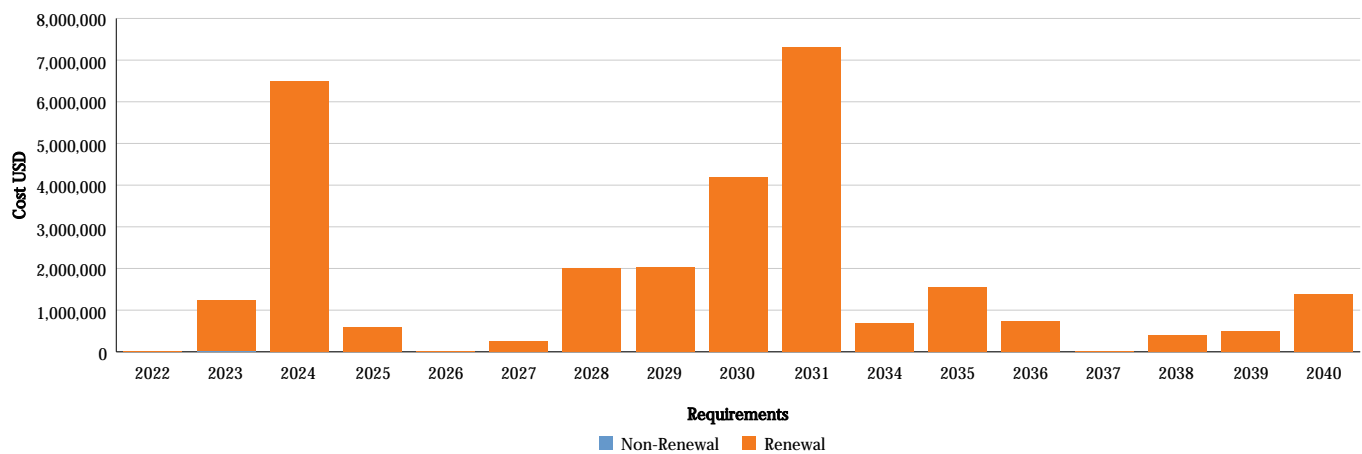
Current Replacement Value

25,139,171

Size

79,975 SF

### Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2022	5,830	0	5,830
2023	1,205,413	37,028	1,242,441
2024	6,486,763	0	6,486,763
2025	590,310	0	590,310
2026	2,633	0	2,633
2027	244,391	0	244,391
2028	1,996,891	0	1,996,891
2029	2,017,684	0	2,017,684
2030	4,185,685	0	4,185,685
2031	7,309,468	0	7,309,468
2034	689,692	0	689,692
2035	1,547,359	0	1,547,359
2036	738,332	0	738,332
2037	11,612	0	11,612
2038	390,527	0	390,527



# Requirement Forecast Report

## By Name

Year	Renewal Requirements	Non-Renewal Requirements	Total
2039	482,213	0	482,213
2040	1,377,013	0	1,377,013
<b>Total</b>	<b>29,281,815</b>	<b>37,028</b>	<b>29,318,843</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2022	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton Renewal	5,830	0	5,830
		<b>Subtotal for 2022</b>	<b>5,830</b>	<b>0</b>	<b>5,830</b>
2023	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	104,506	0	104,506
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-2 Renewal	48,742	0	48,742
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-1 Renewal	48,742	0	48,742
	D5033 - Telephone Systems	Telecom Wiring System - Cable/Conduit Through Floor Penetrations Lacking Fire Stopping	0	7,182	7,182
	D3050 - Terminal and Package Units	Air Curtains - Post Office Renewal	4,346	0	4,346
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-7 Renewal	48,742	0	48,742
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-6 Renewal	168,048	0	168,048
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-4 Renewal	168,048	0	168,048
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-9 Renewal	76,164	0	76,164
	D5012 - Low Tension Service and Dist.	Main Electrical Room Door - Lacking Panic Hardware	0	6,210	6,210
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-5 Renewal	168,048	0	168,048
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-3 Renewal	48,742	0	48,742
	D5092 - Emergency Light and Power Systems	Exit Signs - Spacing - Lacking Proper Coverage - Hallways	0	1,718	1,718
	D5012 - Low Tension Service and Dist.	Electrical System - Lacking Arc Flash Labeling	0	21,918	21,918
	D2010 - Plumbing Fixtures	Restroom Fixtures - 1995 Renewal	21,562	0	21,562
	D3040 - Distribution Systems	Steam Piping and Condensate Return Renewal	299,721	0	299,721
		<b>Subtotal for 2023</b>	<b>1,205,413</b>	<b>37,028</b>	<b>1,242,441</b>
2024	D3040 - Distribution Systems	HVAC Ductwork - Return Renewal	321,283	0	321,283
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Soffits Renewal	5,113	0	5,113
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Ornate Post Lanterns Renewal	38,799	0	38,799
	D3040 - Distribution Systems	Perimeter Heat System - Steam CI Radiators Renewal	1,491,870	0	1,491,870
	D5012 - Low Tension Service and Dist.	Distribution System - Interior Distribution Transformers - 1975 Renewal	20,996	0	20,996
	D3068 - Building Automation Systems	Air Compressor - HVAC Controls - Reciprocating - Duplex 5 HP Renewal	82,444	0	82,444
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.1 Renewal	15,325	0	15,325
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.1 Renewal	16,207	0	16,207
	D5021 - Branch Wiring Devices	Snow Melt System Renewal	44,891	0	44,891
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Incandescent - Glass Bowl Renewal	211,970	0	211,970
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	81,245	0	81,245
	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	209,074	0	209,074
	D2020 - Domestic Water Distribution	Condensate Tank - Steel - 500 Gal Renewal	10,535	0	10,535
	D2040 - Rain Water Drainage	Roof Drainage - Gravity Renewal	263,476	0	263,476
	D3021 - Boilers	Boiler - Steam - Dual Fuel - 1637 MBH - B-1 Renewal	164,774	0	164,774



# Requirement Forecast Report

## *By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2024	D3060 - Controls and Instrumentation	Refrigerant Leak Detection System Renewal	12,478	0	12,478
	D2030 - Sanitary Waste	Sanitary Waste - Gravity Discharge Renewal	338,326	0	338,326
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Ornate Wall Lanterns Renewal	43,731	0	43,731
	D5037 - Fire Alarm Systems	Fire Alarm System - Head End Control Equipment - Zoned Renewal	164,286	0	164,286
	D5033 - Telephone Systems	Telephone System Renewal	270,882	0	270,882
	D5035 - Television Systems	Cable Television CATV System Renewal	61,631	0	61,631
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	83,573	0	83,573
	D2010 - Plumbing Fixtures	Sinks - Custodial/Utility Renewal	17,119	0	17,119
	D5012 - Low Tension Service and Dist.	Normal Power Service Entrance Switchboard - 2500A, 208/120V, 3PH Renewal	175,298	0	175,298
	D3040 - Distribution Systems	HVAC Ductwork - Supply - Multi-Zone Renewal	1,336,939	0	1,336,939
	D5012 - Low Tension Service and Dist.	Motor Control Center - 600A, 480V, 3PH - Boiler Room Renewal	172,269	0	172,269
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - T8 - General Overhead Renewal	216,005	0	216,005
	D3021 - Boilers	Boiler - Steam - Dual Fuel - 1637 MBH - B-2 Renewal	164,774	0	164,774
	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices - 1975 Renewal	272,217	0	272,217
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 208Y/120V, 3PH - 1975 Renewal	174,117	0	174,117
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Wall Packs/Floods Renewal	5,113	0	5,113
<b>Subtotal for 2024</b>			<b>6,486,763</b>	<b>0</b>	<b>6,486,763</b>
2025	D5012 - Low Tension Service and Dist.	Secondary Distribution Switchboard - B - 600A, 240V, 3PH, 3W Renewal	31,335	0	31,335
	D3040 - Distribution Systems	Condensate Return Pump - 1.5 HP Duplex Renewal	27,055	0	27,055
	D3040 - Distribution Systems	HVAC Pump - Boiler Feed Water - In-Line - 1 HP Renewal	19,012	0	19,012
	D5038 - Security and Detection Systems	Security System - CCTV - 2015 Renewal	211,716	0	211,716
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	301,192	0	301,192
<b>Subtotal for 2025</b>			<b>590,310</b>	<b>0</b>	<b>590,310</b>
2026	D20 - Plumbing	Sump Pump Renewal	2,633	0	2,633
<b>Subtotal for 2026</b>			<b>2,633</b>	<b>0</b>	<b>2,633</b>
2027	G2041 - Fences and Gates	Fencing - Wood Board - (6-Ft High) Renewal	4,497	0	4,497
	D2090 - Other Plumbing Systems	Natural Gas Supply for Bldg - 6" Feed Renewal	204,003	0	204,003
	D2020 - Domestic Water Distribution	Water Heater - Gas - Comm - 100 MBH Renewal	35,891	0	35,891
<b>Subtotal for 2027</b>			<b>244,391</b>	<b>0</b>	<b>244,391</b>
2028	D5038 - Security and Detection Systems	Security System - Access Control System - 2018 Renewal	120,482	0	120,482
	D3030 - Cooling Generating Systems	Cooling Tower - Galvanized Steel - 125 Ton Renewal	106,068	0	106,068
	D3060 - Controls and Instrumentation	DDC/Pneumatic Controls - Hybrid Renewal	948,075	0	948,075
	B3011 - Roof Finishes	Exterior Sealants - Roof Renewal	24,520	0	24,520
	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Condenser Water Free Cooling Renewal	307,414	0	307,414
	D3030 - Cooling Generating Systems	Chiller - Centrifugal Renewal	271,595	0	271,595
	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	17,505	0	17,505
	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	125,112	0	125,112
	C1010 - Partitions	Terra Cotta Block Partitions - Plain Renewal	72,188	0	72,188
	D2010 - Plumbing Fixtures	Emergency Eyewash Renewal	3,932	0	3,932
	<b>Subtotal for 2028</b>		<b>1,996,891</b>	<b>0</b>	<b>1,996,891</b>
2029	B3016 - Gutters and Downspouts	Gutters and Downspouts - Metal Renewal	2,394	0	2,394
	C1010 - Partitions	Windows/Storefront Partitions - Wood Renewal	465,937	0	465,937
	C1020 - Interior Doors	Interior Doors - Solid Wood - Historic Renewal	477,301	0	477,301



# Requirement Forecast Report

## *By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2029	C2010 - Stair Construction	Interior Stairs - Cast Iron - Stone Treads Renewal	49,885	0	49,885
	B2020 - Exterior Windows	Wood Windows Renewal	594,934	0	594,934
	C1020 - Interior Doors	Interior Doors - Glazed Wood Renewal	427,233	0	427,233
<b>Subtotal for 2029</b>			<b>2,017,684</b>	<b>0</b>	<b>2,017,684</b>
2030	C3020 - Floor Finishes	Carpeting - Broadloom Renewal	575,387	0	575,387
	B2010 - Exterior Walls	Exterior Sealants Renewal	154,251	0	154,251
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	656,545	0	656,545
	C3010 - Wall Finishes	Painted Finish Renewal	29,010	0	29,010
	C3020 - Floor Finishes	Carpeting - Tile Renewal	117,190	0	117,190
	C3020 - Floor Finishes	Ceramic Floor Tile Renewal	60,583	0	60,583
	D4020 - Standpipes	Standpipe System - Dry Renewal	53,898	0	53,898
	C3010 - Wall Finishes	Cornices, Trims and Moldings Renewal	286,446	0	286,446
	B2030 - Exterior Doors	Exterior Doors - Pair - Hollow Metal - Oversized Renewal	78,365	0	78,365
	C3010 - Wall Finishes	Granite Wall Finish Renewal	196,649	0	196,649
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	1,125,923	0	1,125,923
	D4010 - Sprinklers	Sprinkler System - Wet - Light Hazard Renewal	258,599	0	258,599
	B2030 - Exterior Doors	Exterior Doors - Single - Aluminum - Glazed Renewal	11,734	0	11,734
	D3040 - Distribution Systems	HVAC Pump - Condenser Water - In-Line - 10 HP Renewal	28,903	0	28,903
	D5039 - Local Area Networks	LAN & VoIP System Renewal	260,420	0	260,420
	C3030 - Ceiling Finishes	Wood Ceiling System - Wood Board Renewal	269,169	0	269,169
	D3040 - Distribution Systems	HVAC Pump - Chilled Water - In-Line - 7.5 HP Renewal	22,613	0	22,613
<b>Subtotal for 2030</b>			<b>4,185,685</b>	<b>0</b>	<b>4,185,685</b>
2031	B2010 - Exterior Walls	Exterior Closure - Stone Veneer Walls - Limestone Renewal	1,850,288	0	1,850,288
	A1030 - Slab on Grade	Structural Slab on Grade - Non-Industrial Renewal	11,059	0	11,059
	C3010 - Wall Finishes	Wood Wall Paneling with Custom Detailing Renewal	509,927	0	509,927
	A1010 - Standard Foundations	Foundation Wall and Footings - 12-Ft High Renewal	21,791	0	21,791
	B10 - Superstructure	Multi-Story Cast-in-Place Concrete Renewal	550,700	0	550,700
	A - Substructure	Grade Beams - Low-Rise Renewal	24,182	0	24,182
	C1010 - Partitions	Plaster on Stud Partitions Renewal	224,870	0	224,870
	C3020 - Floor Finishes	Terrazzo - Cast-in-Place Renewal	3,019,613	0	3,019,613
	B1015 - Exterior Stairs and Fire Escapes	Exterior Stairs - Concrete Renewal	43,024	0	43,024
	C3020 - Floor Finishes	Stone Finish - Granite Renewal	650,440	0	650,440
	C3010 - Wall Finishes	Wood Wall Paneling Renewal	175,068	0	175,068
	A1010 - Standard Foundations	Concrete Footings at Interior Columns - Low-Rise Renewal	7,336	0	7,336
	B1014 - Ramps	Exterior Ramp - Accessible - Concrete Renewal	69,841	0	69,841
	C1020 - Interior Doors	Interior Doors - Security Vault Renewal	54,925	0	54,925
	C1010 - Partitions	Solid Brick Partitions Renewal	96,405	0	96,405
<b>Subtotal for 2031</b>			<b>7,309,468</b>	<b>0</b>	<b>7,309,468</b>
2034	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	132,292	0	132,292
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	128,607	0	128,607
	D5033 - Telephone Systems	Telephone System Renewal	428,792	0	428,792
<b>Subtotal for 2034</b>			<b>689,692</b>	<b>0</b>	<b>689,692</b>
2035	B2015 - Balcony Walls and Handrails	Exterior Railings - Steel Pipe Renewal	51,064	0	51,064



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2035	C1030 - Fittings	Restroom Accessories Renewal	168,437	0	168,437
	D5038 - Security and Detection Systems	Security System - CCTV - 2015 Renewal	335,135	0	335,135
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.1 - 2000 lbs. - 5 Stories Renewal	602,691	0	602,691
	C3020 - Floor Finishes	Wood Flooring - Hardwood Strip Renewal	128,279	0	128,279
	C3011 - Wall Finishes to Inside Exterior Walls	Plaster Finish - Inside Face of Exterior Walls Renewal	176,876	0	176,876
	C1030 - Fittings	Toilet Partitions - Stone Renewal	84,878	0	84,878
		Subtotal for 2035	1,547,359	0	1,547,359
2036	B3010 - Roof Coverings	Single-Ply Membrane Renewal	738,332	0	738,332
			Subtotal for 2036	738,332	0
2037	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton Renewal	11,612	0	11,612
			Subtotal for 2037	11,612	0
2038	D5092 - Emergency Light and Power Systems	Exit Signs - LED - 2018 Renewal	147,772	0	147,772
	B3011 - Roof Finishes	Exterior Sealants - Roof Renewal	38,814	0	38,814
	D5038 - Security and Detection Systems	Security System - Access Control System - 2018 Renewal	190,716	0	190,716
	D3050 - Terminal and Package Units	Air Curtains - Post Office Renewal	8,656	0	8,656
	D20 - Plumbing	Sump Pump Renewal	4,568	0	4,568
			Subtotal for 2038	390,527	0
2039	D5037 - Fire Alarm Systems	Fire Alarm System - Head End Control Equipment - Zoned Renewal	327,191	0	327,191
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.1 Renewal	32,279	0	32,279
	D5035 - Television Systems	Cable Television CATV System Renewal	122,743	0	122,743
			Subtotal for 2039	482,213	0
2040	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices - 2000 Renewal	567,627	0	567,627
	B2030 - Exterior Doors	Exterior Doors - Pair - Hollow Metal - Glazed Renewal	63,168	0	63,168
	C1020 - Interior Doors	Automatic Openers - Single - Interior Renewal	49,406	0	49,406
	C3010 - Wall Finishes	Ceramic Wall Tile Renewal	146,501	0	146,501
	C3030 - Ceiling Finishes	ACT System Renewal	550,312	0	550,312
			Subtotal for 2040	1,377,013	0
		Total	29,281,815	37,028	29,318,843





# Requirement Forecast Report

*By Name*

Agency: State of Idaho  
Campus: Capitol Mall

Asset: Capitol Annex  
Asset Number: 12

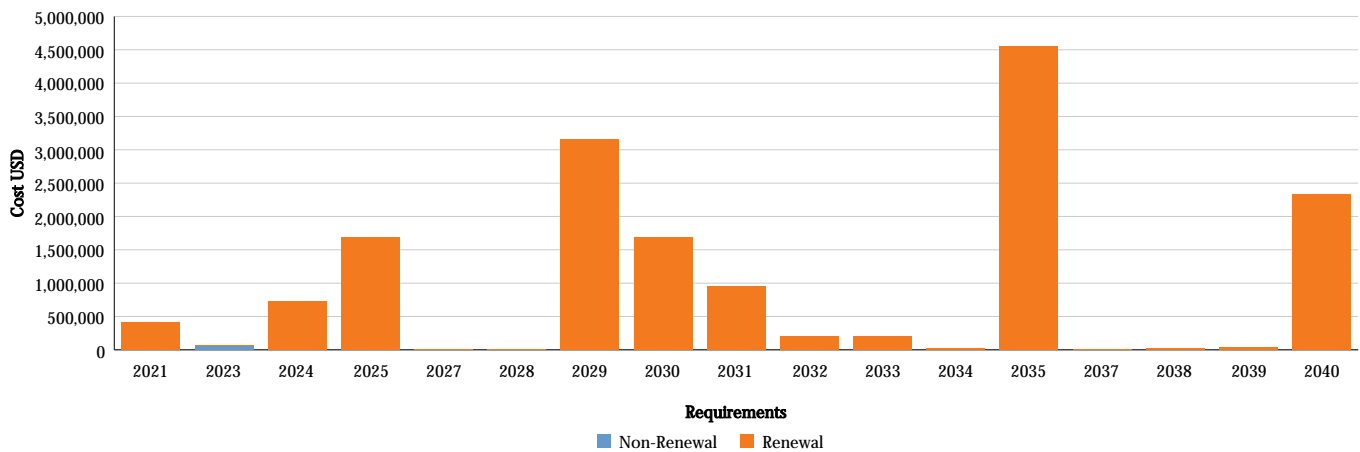
Report is grouped by Year

Currency: USD

Address 1	514 W. Jefferson	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

Current Replacement Value 31,112,907 Size 64,000 SF

## Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2021	415,202	0	415,202
2023	0	63,815	63,815
2024	720,155	0	720,155
2025	1,693,001	0	1,693,001
2027	4,995	0	4,995
2028	11,020	0	11,020
2029	3,154,958	0	3,154,958
2030	1,689,138	0	1,689,138
2031	958,707	0	958,707
2032	198,999	0	198,999
2033	204,929	0	204,929
2034	20,359	0	20,359
2035	4,557,733	0	4,557,733
2037	7,907	0	7,907
2038	17,443	0	17,443



# Requirement Forecast Report

## By Name

Year	Renewal Requirements	Non-Renewal Requirements	Total
2039	31,416	0	31,416
2040	2,337,997	0	2,337,997
<b>Total</b>	<b>16,023,959</b>	<b>63,815</b>	<b>16,087,773</b>

## Detail of Funding Needed by Year

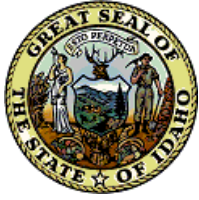
Year	System	Requirement Name	Renewal	Non-Renewal	Total
2021	C3020 - Floor Finishes	Ceramic Floor Tile Renewal	78,909	0	78,909
	B3011 - Roof Finishes	Exterior Sealants - Roof Renewal	57,730	0	57,730
	A10 - Foundations	Concrete Spread Footings - Low-Rise Renewal	10,317	0	10,317
	D2010 - Plumbing Fixtures	Restroom Fixtures - Abandon Renewal	66,088	0	66,088
	A10 - Foundations	Piles and Grade Beams Foundation - High-Rise Renewal	183,485	0	183,485
	A10 - Foundations	Foundation Wall and Footings - 16-Ft High Renewal	18,673	0	18,673
		<b>Subtotal for 2021</b>	<b>415,202</b>	<b>0</b>	<b>415,202</b>
2023	D5021 - Branch Wiring Devices	Branch Circuit Wiring - Abandoned - Old Jail Area	0	40,012	40,012
	D5012 - Low Tension Service and Dist.	Electrical System - Lacking Arc Flash Labeling	0	17,539	17,539
	D5092 - Emergency Light and Power Systems	Exit Signs - Lacking Approved Signage at Exit Discharge	0	6,264	6,264
		<b>Subtotal for 2023</b>	<b>0</b>	<b>63,815</b>	<b>63,815</b>
2024	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Incandescent - General Overhead - Glass Bowl Renewal	521,934	0	521,934
	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices - Floors 5 - 8 - Legacy Renewal	83,784	0	83,784
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Ornate Wall Lanterns Renewal	53,823	0	53,823
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	12,861	0	12,861
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Ornate Post Lanterns Renewal	47,752	0	47,752
		<b>Subtotal for 2024</b>	<b>720,155</b>	<b>0</b>	<b>720,155</b>
2025	D5092 - Emergency Light and Power Systems	Emergency Lighting Inverters - 2015 Renewal	33,829	0	33,829
	D5022 - Lighting Equipment	Lighting Control System - Relay - Dimming Renewal	212,264	0	212,264
	D5092 - Emergency Light and Power Systems	Emergency Battery Lamp Ballast Renewal	62,965	0	62,965
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	116,298	0	116,298
	D5038 - Security and Detection Systems	Security System - Video Intercom System - North Entrance Renewal	10,017	0	10,017
	D5038 - Security and Detection Systems	Security System - Intrusion Alarm Renewal	164,117	0	164,117
	B2020 - Exterior Windows	Steel Windows - Detention Renewal	781,598	0	781,598
	D5038 - Security and Detection Systems	Security System - Access Control System - 2015 Renewal	103,390	0	103,390
	D5038 - Security and Detection Systems	Security System - CCTV - 2015 Renewal	208,524	0	208,524
		<b>Subtotal for 2025</b>	<b>1,693,001</b>	<b>0</b>	<b>1,693,001</b>
2027	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	4,995	0	4,995
		<b>Subtotal for 2027</b>	<b>4,995</b>	<b>0</b>	<b>4,995</b>
2028	D2020 - Domestic Water Distribution	Water Heater - Elec - 50 Gal Renewal	11,020	0	11,020
		<b>Subtotal for 2028</b>	<b>11,020</b>	<b>0</b>	<b>11,020</b>
2029	D3050 - Terminal and Package Units	Split System Heat Pump - 2 Ton Renewal	8,981	0	8,981
	D3050 - Terminal and Package Units	Split System AC - 2 Ton Renewal	11,293	0	11,293
	B2010 - Exterior Walls	Exterior Closure - Stone Veneer Walls - Limestone Renewal	2,943,000	0	2,943,000
	B1015 - Exterior Stairs and Fire Escapes	Exterior Stairs - Monumental - Stone Renewal	184,247	0	184,247
	D20 - Plumbing	Sump Pumps Renewal	7,437	0	7,437



# Requirement Forecast Report

## By Name

Year	System	Requirement Name	Renewal	Non-Renewal	Total
Subtotal for 2029			3,154,958	0	3,154,958
2030	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-2 Renewal	10,362	0	10,362
	C3020 - Floor Finishes	Vinyl Plank Flooring Renewal	39,424	0	39,424
	D5039 - Local Area Networks	LAN & VoIP System Renewal	512,980	0	512,980
	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-3 Renewal	10,362	0	10,362
	C2010 - Stair Construction	Interior Stairs - Concrete Renewal	16,307	0	16,307
	C2010 - Stair Construction	Interior Stairs - Featured Stairs Renewal	302,599	0	302,599
	C3010 - Wall Finishes	Painted Finish Renewal	18,288	0	18,288
	B2010 - Exterior Walls	Exterior Coatings - Painted Finish Renewal	21,481	0	21,481
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.1 Renewal	27,491	0	27,491
	B2010 - Exterior Walls	Exterior Closure - CIP Concrete Walls - Plain Renewal	338,700	0	338,700
	C2010 - Stair Construction	Interior Stairs - Spiral - Steel Renewal	22,624	0	22,624
	D3050 - Terminal and Package Units	Multi-Zone Heat Pump System (VRF) - Outdoor Section - 9 Ton Renewal	30,950	0	30,950
	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-4 Renewal	10,362	0	10,362
	D3050 - Terminal and Package Units	Multi-Zone Heat Pump System (VRF) - Indoor Units - 3 Ton Renewal	30,788	0	30,788
	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-1 Renewal	10,362	0	10,362
	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Addressable Renewal	263,278	0	263,278
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	22,780	0	22,780
Subtotal for 2030			1,689,138	0	1,689,138
2031	B10 - Superstructure	Multi-Story Cast-in-Place Concrete Renewal	542,397	0	542,397
	B3011 - Roof Finishes	Exterior Sealants - Roof Renewal	91,383	0	91,383
	B1015 - Exterior Stairs and Fire Escapes	Exterior Stairs - Concrete - Small Renewal	19,244	0	19,244
	C1020 - Interior Doors	Interior Doors - Detention Renewal	298,875	0	298,875
	A1030 - Slab on Grade	Structural Slab on Grade - Non-Industrial Renewal	6,808	0	6,808
Subtotal for 2031			958,707	0	958,707
2032	B3010 - Roof Coverings	Single-Ply Membrane - Ballasted Renewal	198,999	0	198,999
Subtotal for 2032			198,999	0	198,999
2033	B3010 - Roof Coverings	Single-Ply Membrane Renewal	204,929	0	204,929
Subtotal for 2033			204,929	0	204,929
2034	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	20,359	0	20,359
Subtotal for 2034			20,359	0	20,359
2035	D3060 - Controls and Instrumentation	DDC Controls Renewal	670,445	0	670,445
	D3040 - Distribution Systems	Energy Recovery Ventilator - VAV - ERU-1 Renewal	71,601	0	71,601
	B2010 - Exterior Walls	Exterior Sealants Renewal	265,398	0	265,398
	C3020 - Floor Finishes	Rubber Treads - Stairs Renewal	27,665	0	27,665
	D5038 - Security and Detection Systems	Security System - Video Intercom System - North Entrance Renewal	15,856	0	15,856
	C3020 - Floor Finishes	VCT Renewal	18,010	0	18,010
	D5092 - Emergency Light and Power Systems	Emergency Lighting Inverters - 2015 Renewal	53,549	0	53,549
	D5022 - Lighting Equipment	Lighting Control System - Relay - Dimming Renewal	336,003	0	336,003
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - LED - Wall Pack/Floodlights Renewal	20,731	0	20,731
	D5092 - Emergency Light and Power Systems	Emergency Battery Lamp Ballast Renewal	99,671	0	99,671
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	871,420	0	871,420
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.1 Renewal	35,240	0	35,240
	D5092 - Emergency Light and Power Systems	Exit Signs - LED - 2015 Renewal	126,811	0	126,811



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2035	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	184,093	0	184,093
	D3040 - Distribution Systems	Energy Recovery Ventilator - VAV - ERU-2 Renewal	71,601	0	71,601
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - T8 - Old Jail Area Renewal	63,529	0	63,529
	D5038 - Security and Detection Systems	Security System - CCTV - 2015 Renewal	330,082	0	330,082
	D5038 - Security and Detection Systems	Security System - Intrusion Alarm Renewal	259,789	0	259,789
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	469,583	0	469,583
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - LED - Soffits Renewal	5,257	0	5,257
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - T8 - General Overhead Renewal	355,488	0	355,488
	D5038 - Security and Detection Systems	Security System - Access Control System - 2015 Renewal	163,661	0	163,661
	D2010 - Plumbing Fixtures	Water Coolers - Wall-Mounted Renewal	42,250	0	42,250
		<b>Subtotal for 2035</b>	<b>4,557,733</b>	<b>0</b>	<b>4,557,733</b>
2037	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	7,907	0	7,907
		<b>Subtotal for 2037</b>	<b>7,907</b>	<b>0</b>	<b>7,907</b>
2038	D2020 - Domestic Water Distribution	Water Heater - Elec - 50 Gal Renewal	17,443	0	17,443
		<b>Subtotal for 2038</b>	<b>17,443</b>	<b>0</b>	<b>17,443</b>
2039	D5021 - Branch Wiring Devices	Branch Wiring - Heat Tracing System - Roof Drains Renewal	31,416	0	31,416
		<b>Subtotal for 2039</b>	<b>31,416</b>	<b>0</b>	<b>31,416</b>
2040	C3020 - Floor Finishes	Carpeting - Tile Renewal	559,373	0	559,373
	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	209,363	0	209,363
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Renewal	67,124	0	67,124
	C3030 - Ceiling Finishes	ACT System Renewal	846,634	0	846,634
	C3020 - Floor Finishes	Vinyl Sheet Goods Renewal	48,281	0	48,281
	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	429,388	0	429,388
	C1030 - Fittings	Restroom Accessories Renewal	177,834	0	177,834
		<b>Subtotal for 2040</b>	<b>2,337,997</b>	<b>0</b>	<b>2,337,997</b>
		<b>Total</b>	<b>16,023,959</b>	<b>63,815</b>	<b>16,087,773</b>



# Requirement Forecast Report

*By Name*

Agency: State of Idaho

Asset: Capitol Building

Campus: Capitol Mall

Asset Number: 13

Report is grouped by Year

Currency: USD

Address 1	700 W Jefferson Street	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

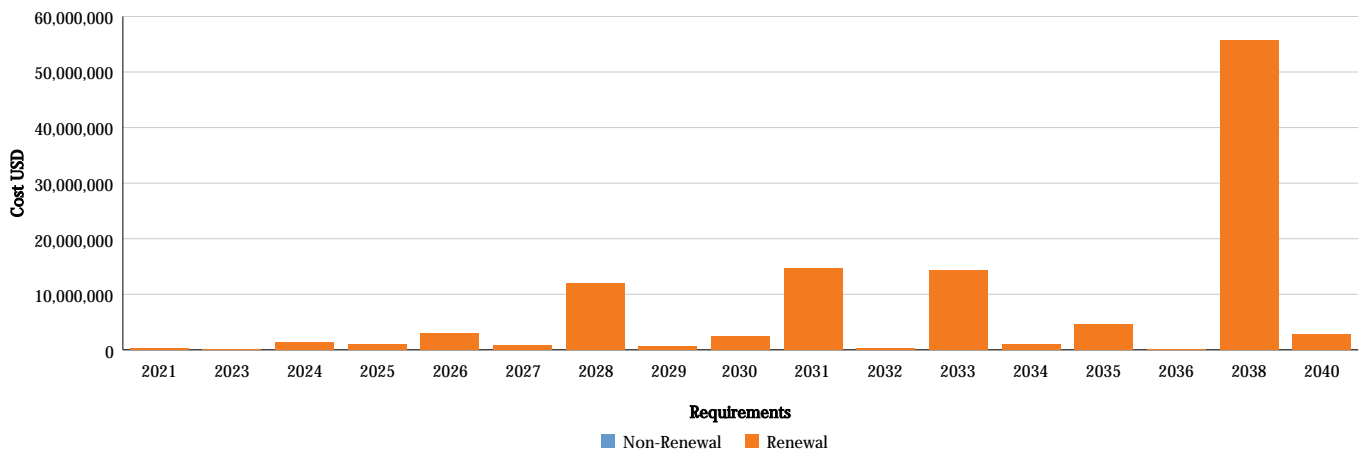
Current Replacement Value

325,000,000

Size

249,583 SF

## Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2021	197,480	0	197,480
2023	126,197	71,803	198,000
2024	1,316,336	0	1,316,336
2025	914,929	0	914,929
2026	2,908,303	0	2,908,303
2027	818,871	0	818,871
2028	12,014,823	0	12,014,823
2029	712,009	0	712,009
2030	2,389,914	0	2,389,914
2031	14,725,913	0	14,725,913
2032	289,972	0	289,972
2033	14,397,091	0	14,397,091
2034	1,002,551	0	1,002,551
2035	4,512,888	0	4,512,888
2036	49,000	0	49,000



# Requirement Forecast Report

*By Name*

Year	Renewal Requirements	Non-Renewal Requirements	Total
2038	55,782,389	0	55,782,389
2040	2,830,575	0	2,830,575
<b>Total</b>	<b>114,989,241</b>	<b>71,803</b>	<b>115,061,044</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2021	B3011 - Roof Finishes	Exterior Sealants - Roof Renewal	57,730	0	57,730
	B1015 - Exterior Stairs and Fire Escapes	Exterior Stairs - Monumental - Stone Renewal	127,593	0	127,593
	B1015 - Exterior Stairs and Fire Escapes	Exterior Stairs - Concrete - Small Renewal	12,157	0	12,157
	<b>Subtotal for 2021</b>		<b>197,480</b>	<b>0</b>	<b>197,480</b>
2023	D5021 - Branch Wiring Devices	Branch Wiring System - Conduit Floor Penetrations Lacking Fire Stopping	0	1,796	1,796
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Rm EW27 Renewal	16,517	0	16,517
	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System - Rm E149 Renewal	10,507	0	10,507
	D5012 - Low Tension Service and Dist.	Electrical System - Lacking Arc Flash Labeling	0	68,399	68,399
	D5091 - Grounding Systems	Intersystem Grounding Bus - Lacking Bonding Connections - Building Steel Conductors	0	1,608	1,608
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Rm WW11 Renewal	33,034	0	33,034
	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System - Rm CG11 Renewal	12,427	0	12,427
	D2020 - Domestic Water Distribution	Water Heater - Elec - Comm - 120 Gal Renewal	39,265	0	39,265
	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System - Rm E234 Renewal	14,447	0	14,447
	<b>Subtotal for 2023</b>		<b>126,197</b>	<b>71,803</b>	<b>198,000</b>
2024	D20 - Plumbing	Sump Pumps - Rm WW11 Renewal	5,911	0	5,911
	D1011 - Passenger Elevators	Traction Gearless Passenger Elevator - No.2 - 2500 lbs. - 4 Stories Renewal	665,258	0	665,258
	D20 - Plumbing	Sump Pumps - Rm CG09 Renewal	5,911	0	5,911
	D5038 - Security and Detection Systems	Security System - Intrusion Alarm Renewal	611,284	0	611,284
	D20 - Plumbing	Sump Pumps - Rm EW27 Renewal	5,911	0	5,911
	D2020 - Domestic Water Distribution	Water Heater - Elec - 50 Gal Renewal	22,060	0	22,060
	<b>Subtotal for 2024</b>		<b>1,316,336</b>	<b>0</b>	<b>1,316,336</b>
2025	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	453,530	0	453,530
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.1 - Cab Finishes Renewal	47,511	0	47,511
	D5022 - Lighting Equipment	Lighting Control System - Relay - Dimming Renewal	413,888	0	413,888
	<b>Subtotal for 2025</b>		<b>914,929</b>	<b>0</b>	<b>914,929</b>
2026	D1011 - Passenger Elevators	Hydraulic Passenger Elevator - EW ADA - Cab Finishes Renewal	47,650	0	47,650
	D1011 - Passenger Elevators	Hydraulic Passenger Elevator - WW ADA - Cab Finishes Renewal	47,650	0	47,650
	D5031 - Public Address and Music Systems	Intercom System Renewal	927,232	0	927,232
	D2020 - Domestic Water Distribution	Pressure Booster Pump - Simplex 5 HP Renewal	31,210	0	31,210
	D2020 - Domestic Water Distribution	Water Heater - Gas - Comm - 300 MBH Renewal	117,571	0	117,571
	D5035 - Television Systems	Cable Television CATV System Renewal	735,040	0	735,040
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.3 - Cab Finishes Renewal	49,744	0	49,744
	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Addressable Renewal	854,405	0	854,405
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.4 - Cab Finishes Renewal	49,744	0	49,744
	D1011 - Passenger Elevators	Traction Gearless Passenger Elevator - No.2 - Cab Finishes Renewal	48,058	0	48,058



# Requirement Forecast Report

## By Name

Year	System	Requirement Name	Renewal	Non-Renewal	Total
Subtotal for 2026			2,908,303	0	2,908,303
2027	D5092 - Emergency Light and Power Systems	Emergency Power Generator - 900kW - Diesel - Exterior - Facilities Renewal	818,871	0	818,871
Subtotal for 2027			818,871	0	818,871
2028	D5038 - Security and Detection Systems	Security System - Access Control System - 2018 Renewal	925,515	0	925,515
	E - Equipment and Furnishings	Kitchen Equipment Renewal	88,799	0	88,799
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Floodlights - Roof Renewal	44,852	0	44,852
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Small Ornate Post Lanterns Renewal	114,765	0	114,765
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Fluorescent - General Overhead Style 3 Renewal	472,908	0	472,908
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Incandescent - Accent - House Renewal	121,934	0	121,934
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Incandescent - General Overhead - Style 2 Renewal	1,222,952	0	1,222,952
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Induction - Accent Renewal	183,359	0	183,359
	D3050 - Terminal and Package Units	Computer Room Cooling - Chilled Water Units - Rm CG11 Renewal	33,410	0	33,410
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Small Ornate Globes Renewal	436,574	0	436,574
	D5092 - Emergency Light and Power Systems	Exit Signs - LED - 2008 Renewal	358,561	0	358,561
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	631,831	0	631,831
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Accent - Promenade Renewal	47,974	0	47,974
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Accent - Ribs Renewal	38,871	0	38,871
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Large Ornate Pendants Renewal	94,897	0	94,897
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Large Ornate Post Lanterns Renewal	113,352	0	113,352
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Incandescent - General Overhead - Style 1 Renewal	4,715,068	0	4,715,068
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.4 - Control System Renewal	40,665	0	40,665
	D3050 - Terminal and Package Units	Computer Room Cooling - Chilled Water Units - Rm E149 Renewal	33,410	0	33,410
	D3050 - Terminal and Package Units	Computer Room Cooling - Chilled Water Units - Rm E234 Renewal	33,410	0	33,410
	D5032 - Intercommunication and Paging System	Emergency Communications - Security - Area of Refuge Renewal	19,351	0	19,351
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.3 - Control System Renewal	40,665	0	40,665
	D2010 - Plumbing Fixtures	Water Coolers - Wall-Mounted Renewal	49,013	0	49,013
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - Incandescent - Accent - Urns Renewal	47,974	0	47,974
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Incandescent - Accent - Capital Dome Renewal	1,011,450	0	1,011,450
	D5038 - Security and Detection Systems	Security System - CCTV - 2018 Renewal	933,319	0	933,319
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.1 Control System Renewal	38,011	0	38,011
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Incandescent - Accent - Senate Renewal	121,934	0	121,934
Subtotal for 2028			12,014,823	0	12,014,823
2029	C3020 - Floor Finishes	Ceramic Floor Tile - Older Renewal	669,432	0	669,432
	D1011 - Passenger Elevators	Traction Gearless Passenger Elevator - No.2 - Control System Renewal	42,576	0	42,576
Subtotal for 2029			712,009	0	712,009
2030	D40 - Fire Protection	Kitchen Hood Suppression Renewal	46,571	0	46,571
	C2010 - Stair Construction	Interior Stairs - Featured Stairs Renewal	302,599	0	302,599
	C3010 - Wall Finishes	Painted Finish Renewal	18,288	0	18,288
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - LED - Floodlights - Uplighting Renewal	21,970	0	21,970
	D5039 - Local Area Networks	LAN & VoIP System Renewal	2,000,486	0	2,000,486
Subtotal for 2030			2,389,914	0	2,389,914
2031	D3060 - Controls and Instrumentation	DDC Controls Renewal	2,175,762	0	2,175,762
	B10 - Superstructure	Multi-Story Cast-in-Place Concrete Renewal	2,115,204	0	2,115,204



# Requirement Forecast Report

## *By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2031	A1030 - Slab on Grade	Structural Slab on Grade - Non-Industrial Renewal	34,040	0	34,040
	B2010 - Exterior Walls	Exterior Closure - Stone Veneer Walls - Limestone Renewal	4,955,400	0	4,955,400
	A10 - Foundations	Piles and Grade Beams Foundation - High-Rise Renewal	1,452,236	0	1,452,236
	B3011 - Roof Finishes	Exterior Sealants - Roof Renewal	91,383	0	91,383
	C1020 - Interior Doors	Interior Doors - Security Vault Renewal	67,600	0	67,600
	B10 - Superstructure	Single-Story - Steel Framed Roof Beams on Columns - Domes Renewal	36,739	0	36,739
	A10 - Foundations	Concrete Spread Footings - Low-Rise Renewal	81,660	0	81,660
	B2010 - Exterior Walls	Exterior Trims and Moldings - Limestone Renewal	3,686,332	0	3,686,332
	A10 - Foundations	Foundation Wall and Footings - 16-Ft High Renewal	29,558	0	29,558
<b>Subtotal for 2031</b>			<b>14,725,913</b>	<b>0</b>	<b>14,725,913</b>
2032	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	289,972	0	289,972
	<b>Subtotal for 2032</b>		<b>289,972</b>	<b>0</b>	<b>289,972</b>
2033	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	1,214,110	0	1,214,110
	B3021 - Glazed Roof Openings	Skylights - Monumental Renewal	1,828,418	0	1,828,418
	D3050 - Terminal and Package Units	Unit and Cabinet Unit Heaters - Hot Water Renewal	109,491	0	109,491
	E2012 - Fixed Casework	Fixed Casework - Natural or Simulated Stone Countertops Renewal	3,213,975	0	3,213,975
	D2020 - Domestic Water Distribution	Heat Exchangers - Plate & Frame - Chilled Water to Chilled Water Renewal	607,201	0	607,201
	B3010 - Roof Coverings	Single-Ply Membrane Renewal	1,900,795	0	1,900,795
	C3020 - Floor Finishes	Wood Flooring - Hardwood Strip Renewal	2,534,842	0	2,534,842
	D5092 - Emergency Light and Power Systems	Emergency Power Distribution - ATS-West - 400A, 480V, 3PH Renewal	28,633	0	28,633
	D5092 - Emergency Light and Power Systems	Emergency Power Distribution - ATS-East - 400A, 480V, 3PH Renewal	28,633	0	28,633
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Renewal	48,669	0	48,669
	D5092 - Emergency Light and Power Systems	Emergency Power Distribution - ATS-SDPH - 600A, 480V, 3PH Renewal	154,832	0	154,832
	C3020 - Floor Finishes	Carpeting - Broadloom - Premium Renewal	2,590,891	0	2,590,891
	D5092 - Emergency Light and Power Systems	Emergency Power Distribution - ATS-EDPH - 400A, 480V, 3PH Renewal	136,600	0	136,600
<b>Subtotal for 2033</b>			<b>14,397,091</b>	<b>0</b>	<b>14,397,091</b>
2034	D2020 - Domestic Water Distribution	Water Heater - Elec - 50 Gal Renewal	34,920	0	34,920
	D5038 - Security and Detection Systems	Security System - Intrusion Alarm Renewal	967,631	0	967,631
	<b>Subtotal for 2034</b>		<b>1,002,551</b>	<b>0</b>	<b>1,002,551</b>
2035	B2010 - Exterior Walls	Exterior Sealants Renewal	265,398	0	265,398
	D5030 - Communications and Security	Communications - Distributed Antenna System - Cellular Renewal	1,034,628	0	1,034,628
	D5022 - Lighting Equipment	Lighting Control System - Relay - Dimming Renewal	655,163	0	655,163
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	1,831,249	0	1,831,249
	D3050 - Terminal and Package Units	Split System AC - 1 Ton - Rm EW22 Renewal	8,535	0	8,535
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	717,915	0	717,915
	<b>Subtotal for 2035</b>		<b>4,512,888</b>	<b>0</b>	<b>4,512,888</b>
2036	D20 - Plumbing	Sump Pumps - Rm CG09 Renewal	10,258	0	10,258
	D20 - Plumbing	Sump Pumps - Rm EW27 Renewal	10,258	0	10,258
	D4090 - Other Fire Protection Systems	Fire Suppression System - Clean Agent - Rm EG19 Renewal	18,227	0	18,227
	D20 - Plumbing	Sump Pumps - Rm WW11 Renewal	10,258	0	10,258
<b>Subtotal for 2036</b>			<b>49,000</b>	<b>0</b>	<b>49,000</b>
2038	C3020 - Floor Finishes	Ceramic Floor Tile - Newer Renewal	2,347,229	0	2,347,229
	B3010 - Roof Coverings	Green Roof System - West Garden Level Renewal	3,835,359	0	3,835,359
	D5038 - Security and Detection Systems	Security System - CCTV - 2018 Renewal	1,477,396	0	1,477,396





# Requirement Forecast Report

## By Name

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2038	D2010 - Plumbing Fixtures	Sinks - Custodial/Utility Renewal	101,499	0	101,499
	D4012 - Sprinkler Pumping Equipment	Fire Pump - Electric - 60 HP Renewal	198,057	0	198,057
	D3040 - Distribution Systems	HVAC Pumps - Hot Water - In-Line - 20 HP Renewal	207,718	0	207,718
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Hot Water Renewal	1,248,963	0	1,248,963
	D5038 - Security and Detection Systems	Security System - Access Control System - 2018 Renewal	1,465,042	0	1,465,042
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - MUA-1 Renewal	44,804	0	44,804
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - MUA-4 Renewal	44,804	0	44,804
	D3040 - Distribution Systems	Air Handling Unit - Indoor - VAV - AHU-501 Renewal	512,185	0	512,185
	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System - Rm CG11 Renewal	24,749	0	24,749
	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System - Rm E234 Renewal	28,772	0	28,772
	D2020 - Domestic Water Distribution	Water Heater - Elec - Comm - 120 Gal Renewal	78,200	0	78,200
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - MUA-2 Renewal	44,804	0	44,804
	D2010 - Plumbing Fixtures	Emergency Eyewash - Rm CG09 Renewal	7,660	0	7,660
	B3010 - Roof Coverings	Green Roof System - East Garden Level Renewal	3,828,571	0	3,828,571
	D3040 - Distribution Systems	HVAC Pumps - Chilled Water - In-Line - 75 HP Renewal	450,422	0	450,422
	D3040 - Distribution Systems	HVAC Pumps - Hot Water - Base-Mounted - 100 HP Renewal	455,556	0	455,556
	D3040 - Distribution Systems	Power Ventilators - Gas Fireplaces Renewal	22,759	0	22,759
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Rm WW11 Renewal	65,791	0	65,791
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 480/277V & 208/120V, 3PH Renewal	3,672,482	0	3,672,482
	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	106,428	0	106,428
	D5012 - Low Tension Service and Dist.	Secondary Feeder - Bus Duct Feeder - "B" - 1000A, 208/120V, 3PH, 4W Renewal	565,018	0	565,018
	D5012 - Low Tension Service and Dist.	Secondary Feeder - Bus Duct Feeder - "C" - 1000A, 208/120V, 3PH, 4W Renewal	565,018	0	565,018
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - MUA-3 Renewal	44,804	0	44,804
	D5091 - Grounding Systems	Grounding Systems - Equipment Grounding Riser Renewal	205,134	0	205,134
	G4021 - Fixtures and Transformers	Lighting Fixtures - Site - HID - Acorn - Sidewalks Renewal	84,369	0	84,369
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	1,248,963	0	1,248,963
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Data Chilled Water Renewal	1,248,963	0	1,248,963
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	1,180,125	0	1,180,125
	D5012 - Low Tension Service and Dist.	Secondary Feeder - Bus Duct Feeder - "M" - 800A, 480/277V, 3PH, 4W Renewal	963,876	0	963,876
	D3040 - Distribution Systems	Air Handling Unit - Indoor - VAV - AHU-1W Renewal	780,837	0	780,837
	D2020 - Domestic Water Distribution	Domestic Water Distribution Piping Renewal	3,628,813	0	3,628,813
	D3040 - Distribution Systems	Fan Coil System - Heating and Cooling - 4 Pipe Renewal	12,605,647	0	12,605,647
	D2010 - Plumbing Fixtures	Restroom Fixtures - Shower - Individual Tiled Stall Renewal	22,606	0	22,606
	D3040 - Distribution Systems	Air Handling Unit - Indoor - VAV - AHU-2E Renewal	780,837	0	780,837
	D3040 - Distribution Systems	Air Handling Unit - Indoor - VAV - AHU-502 Renewal	512,185	0	512,185
	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System - Rm E149 Renewal	20,925	0	20,925
	D3040 - Distribution Systems	HVAC Ductwork - Supply - VAV Renewal	10,708,799	0	10,708,799
	D3040 - Distribution Systems	HVAC Pumps - Condenser Water - In-Line - 20 HP Renewal	207,718	0	207,718
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Rm EW27 Renewal	32,895	0	32,895
	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	105,605	0	105,605
		<b>Subtotal for 2038</b>	<b>55,782,389</b>	<b>0</b>	<b>55,782,389</b>
2040	C3030 - Ceiling Finishes	ACT System Renewal	2,275,329	0	2,275,329
	C3020 - Floor Finishes	Vinyl Sheet Goods Renewal	282,790	0	282,790



## Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2040	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.1 - Cab Finishes Renewal	94,622	0	94,622
	C1030 - Fittings	Restroom Accessories Renewal	177,834	0	177,834
Subtotal for 2040			2,830,575	0	2,830,575
Total			114,989,241	71,803	115,061,044



# Requirement Forecast Report

*By Name*

Agency: State of Idaho

Asset: DPW (Public Works)

Campus: Capitol Mall

Asset Number: 9

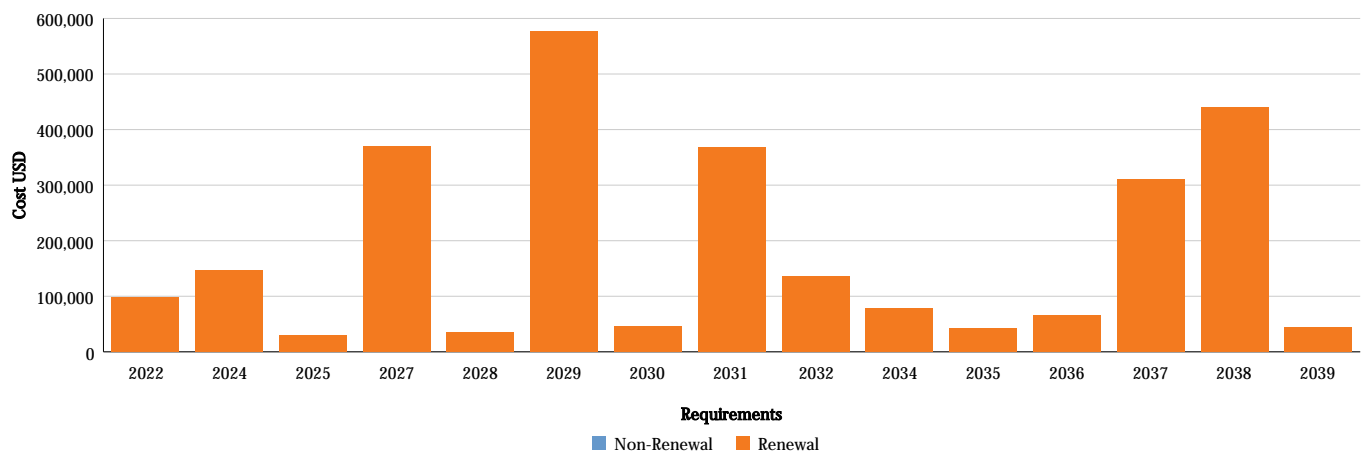
Report is grouped by Year

Currency: USD

Address 1	502 N. 4th	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

Current Replacement Value 2,998,837 Size 10,845 SF

## Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2022	97,597	0	97,597
2024	146,162	0	146,162
2025	29,684	0	29,684
2027	369,120	0	369,120
2028	34,333	0	34,333
2029	576,083	0	576,083
2030	46,432	0	46,432
2031	368,439	0	368,439
2032	135,759	0	135,759
2034	77,541	0	77,541
2035	41,980	0	41,980
2036	65,050	0	65,050
2037	310,302	0	310,302
2038	440,241	0	440,241
2039	44,369	0	44,369



# Requirement Forecast Report

*By Name*

Year	Renewal Requirements	Non-Renewal Requirements	Total
Total	2,783,092	0	2,783,092

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2022	D3060 - Controls and Instrumentation	DDC/Pneumatic Controls - Hybrid Renewal	97,597	0	97,597
Subtotal for 2022			97,597	0	97,597
2024	D5092 - Emergency Light and Power Systems	Exit Signs - CFL Renewal	3,321	0	3,321
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	39,010	0	39,010
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	1,768	0	1,768
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Fluorescent Renewal	35,890	0	35,890
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	11,017	0	11,017
	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Zoned Renewal	22,278	0	22,278
	D5033 - Telephone Systems	Telephone System Renewal	14,955	0	14,955
	D2020 - Domestic Water Distribution	Water Heater - Elec - 50 Gal Renewal	17,924	0	17,924
Subtotal for 2024			146,162	0	146,162
2025	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	29,684	0	29,684
Subtotal for 2025			29,684	0	29,684
2027	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Hot Water Renewal	133,028	0	133,028
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	133,028	0	133,028
	B2030 - Exterior Doors	Exterior Doors - Single - Aluminum - Glazed Renewal	20,447	0	20,447
	D2020 - Domestic Water Distribution	Domestic Water Distribution Piping Renewal	77,302	0	77,302
	C1035 - Identifying Devices	Fittings - Signage Renewal	5,315	0	5,315
Subtotal for 2027			369,120	0	369,120
2028	A1030 - Slab on Grade	Structural Slab on Grade - Non-Industrial Renewal	3,267	0	3,267
	C1030 - Fittings	Restroom Accessories Renewal	11,102	0	11,102
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	19,964	0	19,964
Subtotal for 2028			34,333	0	34,333
2029	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Sidewalk - 4-Ft. Wide Renewal	23,484	0	23,484
	C3030 - Ceiling Finishes	ACT System Renewal	38,047	0	38,047
	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	8,731	0	8,731
	C3010 - Wall Finishes	Wood Wall Paneling Renewal	186,320	0	186,320
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	12,923	0	12,923
	D3040 - Distribution Systems	Air Handling Unit - Outdoor - CV - RTU-2 Renewal	148,621	0	148,621
	D3040 - Distribution Systems	Air Handling Unit - Outdoor - CV - RTU-1 Renewal	148,621	0	148,621
	C3020 - Floor Finishes	Painted Finish or Sealer on Concrete Renewal	9,335	0	9,335
Subtotal for 2029			576,083	0	576,083
2030	D5039 - Local Area Networks	LAN System Renewal	46,432	0	46,432
Subtotal for 2030			46,432	0	46,432
2031	A1010 - Standard Foundations	Foundation Wall and Footings - 12-Ft High Renewal	12,688	0	12,688
	C1010 - Partitions	Solid Brick Partitions Renewal	28,118	0	28,118
	B10 - Superstructure	Wood Frame - Heavy Timber Renewal	74,999	0	74,999
	B2010 - Exterior Walls	Exterior Closure - Brick Veneer Walls Renewal	118,967	0	118,967



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2031	A - Substructure	Grade Beams - Low-Rise Renewal	8,198	0	8,198
	B2010 - Exterior Walls	Exterior Closure - CIP Concrete Walls - Plain Renewal	122,981	0	122,981
	A1010 - Standard Foundations	Concrete Footings at Interior Columns - Low-Rise Renewal	2,487	0	2,487
		<b>Subtotal for 2031</b>	<b>368,439</b>	<b>0</b>	<b>368,439</b>
2032	D4010 - Sprinklers	Sprinkler System - Wet - Light Hazard Renewal	76,858	0	76,858
	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	58,901	0	58,901
		<b>Subtotal for 2032</b>	<b>135,759</b>	<b>0</b>	<b>135,759</b>
2034	D5033 - Telephone Systems	Telephone System Renewal	23,673	0	23,673
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	17,440	0	17,440
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	2,799	0	2,799
	D5092 - Emergency Light and Power Systems	Exit Signs - CFL Renewal	5,257	0	5,257
	D2020 - Domestic Water Distribution	Water Heater - Elec - 50 Gal Renewal	28,373	0	28,373
		<b>Subtotal for 2034</b>	<b>77,541</b>	<b>0</b>	<b>77,541</b>
2035	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - LED Renewal	5,601	0	5,601
	D1013 - Lifts	Wheelchair Lift Renewal	36,378	0	36,378
		<b>Subtotal for 2035</b>	<b>41,980</b>	<b>0</b>	<b>41,980</b>
2036	C3010 - Wall Finishes	Painted Finish Renewal	19,573	0	19,573
	C3020 - Floor Finishes	Carpeting - Broadloom Renewal	45,477	0	45,477
		<b>Subtotal for 2036</b>	<b>65,050</b>	<b>0</b>	<b>65,050</b>
2037	D3040 - Distribution Systems	HVAC Ductwork - Return Renewal	79,153	0	79,153
	D5012 - Low Tension Service and Dist.	Main Electrical Service Feeder - 400A, 120/240V, 1PH - Underground Renewal	57,606	0	57,606
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 120/240V, 1PH Renewal	29,314	0	29,314
	E1090 - Other Equipment	Access Fixed Ladders - Exterior Renewal	12,307	0	12,307
	D3040 - Distribution Systems	HVAC Ductwork - Supply - Single Zone Renewal	131,922	0	131,922
		<b>Subtotal for 2037</b>	<b>310,302</b>	<b>0</b>	<b>310,302</b>
2038	B3021 - Glazed Roof Openings	Skylights - Monumental Renewal	18,691	0	18,691
	B3010 - Roof Coverings	Single-Ply Membrane Renewal	262,317	0	262,317
	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices Renewal	140,433	0	140,433
	B3021 - Glazed Roof Openings	Skylights - Solar Tube Renewal	7,405	0	7,405
	B3021 - Glazed Roof Openings	Skylights - Dome Types Renewal	7,638	0	7,638
	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	3,757	0	3,757
		<b>Subtotal for 2038</b>	<b>440,241</b>	<b>0</b>	<b>440,241</b>
2039	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Zoned Renewal	44,369	0	44,369
		<b>Subtotal for 2039</b>	<b>44,369</b>	<b>0</b>	<b>44,369</b>
		<b>Total</b>	<b>2,783,092</b>	<b>0</b>	<b>2,783,092</b>



# Requirement Forecast Report

## By Name

Agency: State of Idaho

Asset: Joe R. Williams

Campus: Capitol Mall

Asset Number: 4

Report is grouped by Year

Currency: USD

Address 1	700 W. State	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

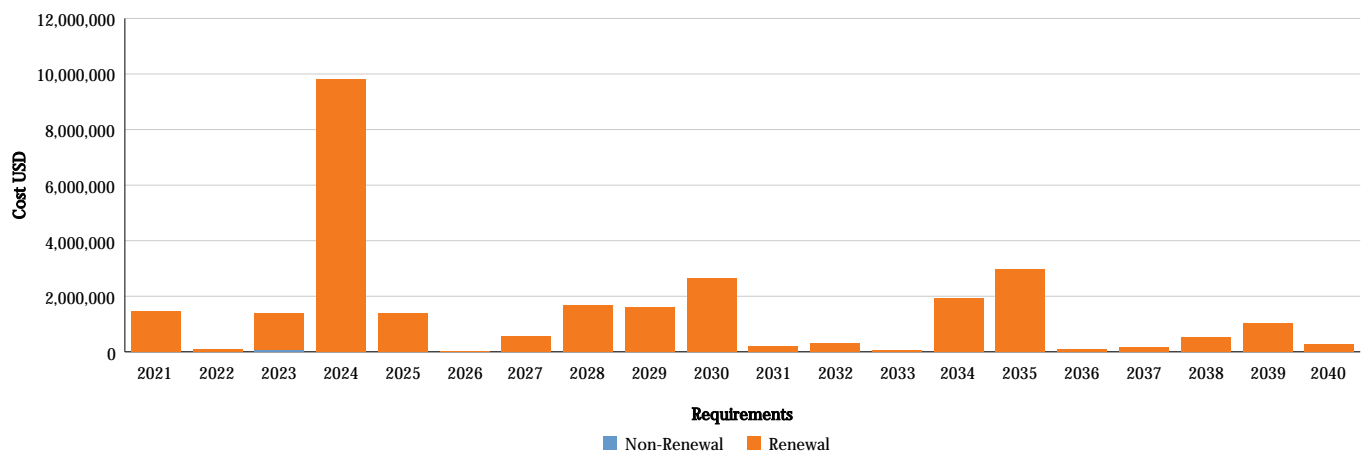
Current Replacement Value

40,985,822

Size

141,168 SF

### Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2021	1,442,527	0	1,442,527
2022	78,443	1,085	79,527
2023	1,308,875	76,863	1,385,738
2024	9,803,852	0	9,803,852
2025	1,384,648	0	1,384,648
2026	22,509	0	22,509
2027	554,487	0	554,487
2028	1,664,750	0	1,664,750
2029	1,590,008	0	1,590,008
2030	2,652,226	0	2,652,226
2031	187,586	0	187,586
2032	322,092	0	322,092
2033	46,655	0	46,655
2034	1,914,323	0	1,914,323
2035	2,960,832	0	2,960,832



# Requirement Forecast Report

## By Name

Year	Renewal Requirements	Non-Renewal Requirements	Total
2036	104,125	0	104,125
2037	156,226	0	156,226
2038	518,146	0	518,146
2039	1,041,174	0	1,041,174
2040	285,069	0	285,069
<b>Total</b>	<b>28,038,553</b>	<b>77,948</b>	<b>28,116,500</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2021	B2010 - Exterior Walls	Exterior Sealants Renewal	151,149	0	151,149
	B3010 - Roof Coverings	Single-Ply Membrane w/ Pavers Renewal	1,259,996	0	1,259,996
	B3011 - Roof Finishes	Exterior Sealants - Roof Renewal	31,382	0	31,382
		<b>Subtotal for 2021</b>	<b>1,442,527</b>	<b>0</b>	<b>1,442,527</b>
2022	D3050 - Terminal and Package Units	Unit and Cabinet Unit Heaters - Electric Renewal	78,443	0	78,443
	D4010 - Sprinklers	Fire Protection - Sprinkler Discharge Pattern Obstructed	0	1,085	1,085
		<b>Subtotal for 2022</b>	<b>78,443</b>	<b>1,085</b>	<b>79,527</b>
2023	D5037 - Fire Alarm Systems	Fire Alarm Systems - Initiating & Alarm Devices - Improper Mounting Height	0	14,166	14,166
	D3068 - Building Automation Systems	Air Compressor - HVAC Controls - Reciprocating - Simplex 3 HP Renewal	45,259	0	45,259
	D5037 - Fire Alarm Systems	Fire Alarm Systems - Horn/Strobes Lacking - Restrooms	0	5,826	5,826
	D5021 - Branch Wiring Devices	Branch Wiring System - Cable/Conduit Rated Wall Penetrations Lacking Fire Stopping	0	7,182	7,182
	D5012 - Low Tension Service and Dist.	Main Electrical Service - Electrical Room - Incorrect Door Swing and Missing Panic Hardware	0	5,620	5,620
	D3060 - Controls and Instrumentation	Pneumatic Controls Renewal	1,263,616	0	1,263,616
	D5021 - Branch Wiring Devices	Branch Wiring System - Outlets Lacking GFCI Type Receptacles & Covers - Exterior	0	1,424	1,424
	D5012 - Low Tension Service and Dist.	Normal Power Electrical Distribution System - Old Utility - Remove Legacy Service Equipment	0	16,703	16,703
	D5021 - Branch Wiring Devices	Branch Wiring System - Lacking GFCI Type Receptacle - Sinks	0	656	656
	D5021 - Branch Wiring Devices	Branch Wiring System - Lacking GFCI Receptacle at Water Cooler	0	213	213
	D5092 - Emergency Light and Power Systems	Exit Signs - Lacking Proper Signage in Data Center	0	4,589	4,589
	D5012 - Low Tension Service and Dist.	Electrical Service Entrance Switchboard - Lacking Ground-fault Detection	0	18,493	18,493
	D5021 - Branch Wiring Devices	Branch Wiring System - Lacking GFCI Receptacle at Grade HVAC Units	0	1,991	1,991
		<b>Subtotal for 2023</b>	<b>1,308,875</b>	<b>76,863</b>	<b>1,385,738</b>
2024	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices - 1975 Renewal	480,499	0	480,499
	D3050 - Terminal and Package Units	Computer Room Cooling - DX w/Air Cooled Remote Condenser - Unit #1 Renewal	223,052	0	223,052
	D5012 - Low Tension Service and Dist.	Motor Control Center - MCC-2 - 600A, 480V, 3PH Renewal	51,399	0	51,399
	D3040 - Distribution Systems	Return Air Fan - RF-1 Renewal	58,116	0	58,116
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	14,051	0	14,051
	D3050 - Terminal and Package Units	Unit and Cabinet Unit Heaters - Hot Water Renewal	22,065	0	22,065
	D3050 - Terminal and Package Units	Computer Room Cooling - DX w/Air Cooled Remote Condenser - Unit #2 Renewal	223,052	0	223,052
	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	369,048	0	369,048
	D4012 - Sprinkler Pumping Equipment	Fire Pump - Electric - 20 HP Renewal	57,755	0	57,755
	D5035 - Television Systems	Cable Television CATV System Renewal	61,631	0	61,631



# Requirement Forecast Report

## By Name

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2024	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System Renewal	157,113	0	157,113
	D3040 - Distribution Systems	HVAC Ductwork - Return Renewal	567,113	0	567,113
	D3040 - Distribution Systems	HVAC Ductwork - Supply - VAV Renewal	2,587,211	0	2,587,211
	D5012 - Low Tension Service and Dist.	Motor Control Center - MCC-1 - 600A, 480V, 3PH Renewal	149,309	0	149,309
	D5012 - Low Tension Service and Dist.	Normal Power Service Entrance Switchboard - B Main - Power - 2500A, 480/277V, 3PH Renewal	204,976	0	204,976
	D2010 - Plumbing Fixtures	Sinks - Custodial/Utility Renewal	51,358	0	51,358
	D5037 - Fire Alarm Systems	Fire Alarm System - Head End Control Equipment - Zoned Renewal	289,990	0	289,990
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	143,410	0	143,410
	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	81,579	0	81,579
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	301,745	0	301,745
	D5038 - Security and Detection Systems	Security System - Access Control System - 2001 Renewal	176,975	0	176,975
	D5033 - Telephone Systems	Telephone System Renewal	478,148	0	478,148
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - SF-3 Renewal	459,446	0	459,446
	D5032 - Intercommunication and Paging System	Emergency Communications - Security - Area of Refuge Renewal	15,700	0	15,700
	D5022 - Lighting Equipment	Lighting Control System - Relay Renewal	263,287	0	263,287
	D3040 - Distribution Systems	Return Air Fan - RF-2 Renewal	58,116	0	58,116
	D5012 - Low Tension Service and Dist.	Distribution System - Interior Distribution Transformers - 1975 Renewal	32,107	0	32,107
	D5032 - Intercommunication and Paging System	Emergency Communications - Security - Elevators Renewal	2,617	0	2,617
	D4010 - Sprinklers	Sprinkler System - Wet - Light Hazard Renewal	1,385,647	0	1,385,647
	D3050 - Terminal and Package Units	Computer Room Cooling - DX w/Air Cooled Remote Condenser - Unit #3 Renewal	223,052	0	223,052
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	147,520	0	147,520
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Soffits Renewal	28,635	0	28,635
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Hot Water Renewal	301,745	0	301,745
	D4020 - Standpipes	Standpipe System - Dry Renewal	136,385	0	136,385
	<b>Subtotal for 2024</b>		<b>9,803,852</b>	<b>0</b>	<b>9,803,852</b>
2025	D5092 - Emergency Light and Power Systems	Exit Signs - LED - 2005 Renewal	71,786	0	71,786
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 480Y/277V & 208Y/120V, 3PH - 1975 Renewal	199,974	0	199,974
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	531,649	0	531,649
	D5038 - Security and Detection Systems	Security System - CCTV - 2015 Renewal	373,710	0	373,710
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.2 Renewal	16,969	0	16,969
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.3 Renewal	25,883	0	25,883
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.1 Renewal	25,883	0	25,883
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.4 Renewal	25,948	0	25,948
	D5092 - Emergency Light and Power Systems	Emergency Battery Lamp Ballast Renewal	112,845	0	112,845
	<b>Subtotal for 2025</b>		<b>1,384,648</b>	<b>0</b>	<b>1,384,648</b>
2026	G2030 - Pedestrian Paving	Pedestrian Pavement - Brick Pavers Renewal	22,509	0	22,509
	<b>Subtotal for 2026</b>		<b>22,509</b>	<b>0</b>	<b>22,509</b>
2027	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.3 Renewal	66,347	0	66,347
	B2010 - Exterior Walls	Exterior Coatings - Painted Finish Renewal	19,959	0	19,959





# Requirement Forecast Report

## By Name

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2027	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.1 Renewal	66,347	0	66,347
	D2020 - Domestic Water Distribution	Water Heater - Elec - Comm - 120 Gal Renewal	38,337	0	38,337
	D3050 - Terminal and Package Units	Split System AC - 2 Ton - CU-4 Renewal	8,370	0	8,370
	D3050 - Terminal and Package Units	Split System AC - 3 Ton - AC-1 Renewal	11,780	0	11,780
	D3050 - Terminal and Package Units	Split System AC - 3 Ton - AC-2 Renewal	11,780	0	11,780
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.4 Renewal	68,292	0	68,292
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.2 Renewal	66,347	0	66,347
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	196,927	0	196,927
Subtotal for 2027			554,487	0	554,487
2028	D2030 - Sanitary Waste	Sanitary Waste - Gravity Discharge Renewal	717,636	0	717,636
	C3020 - Floor Finishes	VCT Renewal	37,134	0	37,134
	C3030 - Ceiling Finishes	ACT System - Older Renewal	79,945	0	79,945
	C1020 - Interior Doors	Interior Doors - Glazed Wood Renewal	31,879	0	31,879
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete - Aggregate Finish Renewal	18,228	0	18,228
	C3011 - Wall Finishes to Inside Exterior Walls	Gypsum Drywall - Inside Face of Exterior Walls Renewal	8,393	0	8,393
	D2040 - Rain Water Drainage	Roof Drainage - Gravity Renewal	558,869	0	558,869
	D5038 - Security and Detection Systems	Security System - Access Control System - 2018 Renewal	212,666	0	212,666
Subtotal for 2028			1,664,750	0	1,664,750
2029	C1010 - Partitions	Accordion Partitions - Manual Operation Renewal	46,856	0	46,856
	C3020 - Floor Finishes	Quarry Tile Renewal	94,179	0	94,179
	B2030 - Exterior Doors	Exterior Doors - Single - Hollow Metal Renewal	6,307	0	6,307
	B2010 - Exterior Walls	Exterior Closure - Corrugated Metal Panels Renewal	101,896	0	101,896
	C1030 - Fittings	Restroom Accessories Renewal	194,706	0	194,706
	B2030 - Exterior Doors	Exterior Doors - Single - Aluminum Storefront Renewal	11,207	0	11,207
	B2020 - Exterior Windows	Aluminum Windows Renewal	1,080,945	0	1,080,945
	B2030 - Exterior Doors	Exterior Doors - Pair - Aluminum Storefront Renewal	53,913	0	53,913
Subtotal for 2029			1,590,008	0	1,590,008
2030	D3040 - Distribution Systems	HVAC Pump - Hot Water - Base-Mounted - 5 HP Renewal	16,970	0	16,970
	C1020 - Interior Doors	Automatic Openers - Pair - Interior Renewal	111,642	0	111,642
	B2030 - Exterior Doors	Automatic Openers - Single - Exterior Renewal	31,211	0	31,211
	C3010 - Wall Finishes	Painted Finish Renewal	64,388	0	64,388
	C3020 - Floor Finishes	Painted Finish or Sealer on Concrete Renewal	13,031	0	13,031
	C1020 - Interior Doors	Automatic Openers - Single - Interior Renewal	62,422	0	62,422
	D5039 - Local Area Networks	LAN & VoIP System Renewal	919,348	0	919,348
	E1090 - Other Equipment	Access Fixed Ladders - Exterior Renewal	5,354	0	5,354
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	1,313,089	0	1,313,089
	D3040 - Distribution Systems	HVAC Pump - Chilled Water - Base-Mounted - 25 HP Renewal	73,288	0	73,288
	C1035 - Identifying Devices	Fittings - Signage Renewal	41,482	0	41,482
Subtotal for 2030			2,652,226	0	2,652,226
2031	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-2 Renewal	8,815	0	8,815
	D2020 - Domestic Water Distribution	Water Heater - Elec - 20 Gal - Floors 2-5 Renewal	6,298	0	6,298
	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-7 Renewal	8,815	0	8,815
	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-3 Renewal	8,815	0	8,815



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2031	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-5 Renewal	8,815	0	8,815
	D3050 - Terminal and Package Units	Split System AC - 3 Ton - Daikin (Perimeter) Renewal	14,156	0	14,156
	D3050 - Terminal and Package Units	Split System AC - 5 Ton - York #1 Renewal	23,064	0	23,064
	D2020 - Domestic Water Distribution	Water Heater - Elec - 20 Gal - Basement Renewal	6,298	0	6,298
	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-1 Renewal	8,815	0	8,815
	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton - CU-6 Renewal	8,815	0	8,815
	B3011 - Roof Finishes	Exterior Sealants - Roof Renewal	49,676	0	49,676
	D3050 - Terminal and Package Units	Split System AC - 2.5 Ton - Daikin (Perimeter) Renewal	12,141	0	12,141
	D3050 - Terminal and Package Units	Split System AC - 5 Ton - York #2 Renewal	23,064	0	23,064
		<b>Subtotal for 2031</b>	<b>187,586</b>	<b>0</b>	<b>187,586</b>
2032	D3050 - Terminal and Package Units	Computer Room Cooling - DX w/Air Cooled Remote Condenser - Unit #4 Renewal	322,092	0	322,092
		<b>Subtotal for 2032</b>	<b>322,092</b>	<b>0</b>	<b>322,092</b>
2033	B2010 - Exterior Walls	Exterior Closure - EIFS Wall Panels Renewal	46,655	0	46,655
		<b>Subtotal for 2033</b>	<b>46,655</b>	<b>0</b>	<b>46,655</b>
2034	D5022 - Lighting Equipment	Lighting Control System - Relay Renewal	416,770	0	416,770
	D5033 - Telephone Systems	Telephone System Renewal	756,884	0	756,884
	D5038 - Security and Detection Systems	Security System - Access Control System - 2001 Renewal	280,142	0	280,142
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	233,516	0	233,516
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	227,011	0	227,011
		<b>Subtotal for 2034</b>	<b>1,914,323</b>	<b>0</b>	<b>1,914,323</b>
2035	D5038 - Security and Detection Systems	Security System - CCTV - 2015 Renewal	591,564	0	591,564
	C3020 - Floor Finishes	Carpeting - Tile - Older Renewal	410,384	0	410,384
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 480Y/277V & 208Y/120V, 3PH - 2005 Renewal	242,421	0	242,421
	D5092 - Emergency Light and Power Systems	Emergency Battery Lamp Ballast Renewal	178,628	0	178,628
	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	42,615	0	42,615
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - T8 - General Overhead - 2015 Renewal	1,495,221	0	1,495,221
		<b>Subtotal for 2035</b>	<b>2,960,832</b>	<b>0</b>	<b>2,960,832</b>
2036	D2020 - Domestic Water Distribution	Pressure Booster Pump - Duplex 5 HP Renewal	104,125	0	104,125
		<b>Subtotal for 2036</b>	<b>104,125</b>	<b>0</b>	<b>104,125</b>
2037	D3050 - Terminal and Package Units	Unit and Cabinet Unit Heaters - Electric Renewal	156,226	0	156,226
		<b>Subtotal for 2037</b>	<b>156,226</b>	<b>0</b>	<b>156,226</b>
2038	C3020 - Floor Finishes	Epoxy Coating Finish on Concrete Renewal	51,087	0	51,087
	D5038 - Security and Detection Systems	Security System - Access Control System - 2018 Renewal	336,639	0	336,639
	D5092 - Emergency Light and Power Systems	Exit Signs - LED - 2018 Renewal	130,420	0	130,420
		<b>Subtotal for 2038</b>	<b>518,146</b>	<b>0</b>	<b>518,146</b>
2039	D5037 - Fire Alarm Systems	Fire Alarm System - Head End Control Equipment - Zoned Renewal	577,542	0	577,542
	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System Renewal	312,905	0	312,905
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	27,984	0	27,984
	D5035 - Television Systems	Cable Television CATV System Renewal	122,743	0	122,743
		<b>Subtotal for 2039</b>	<b>1,041,174</b>	<b>0</b>	<b>1,041,174</b>
2040	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.1 Renewal	51,549	0	51,549



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2040	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.3 Renewal	51,549	0	51,549
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.4 Renewal	51,677	0	51,677
	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	96,498	0	96,498
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.2 Renewal	33,796	0	33,796
Subtotal for 2040			285,069	0	285,069
Total			28,038,553	77,948	28,116,500



# Requirement Forecast Report

*By Name*

Agency: State of Idaho

Asset: Len B Jordan

Campus: Capitol Mall

Asset Number: 5

Report is grouped by Year

Currency: USD

Address 1	650 W. State	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

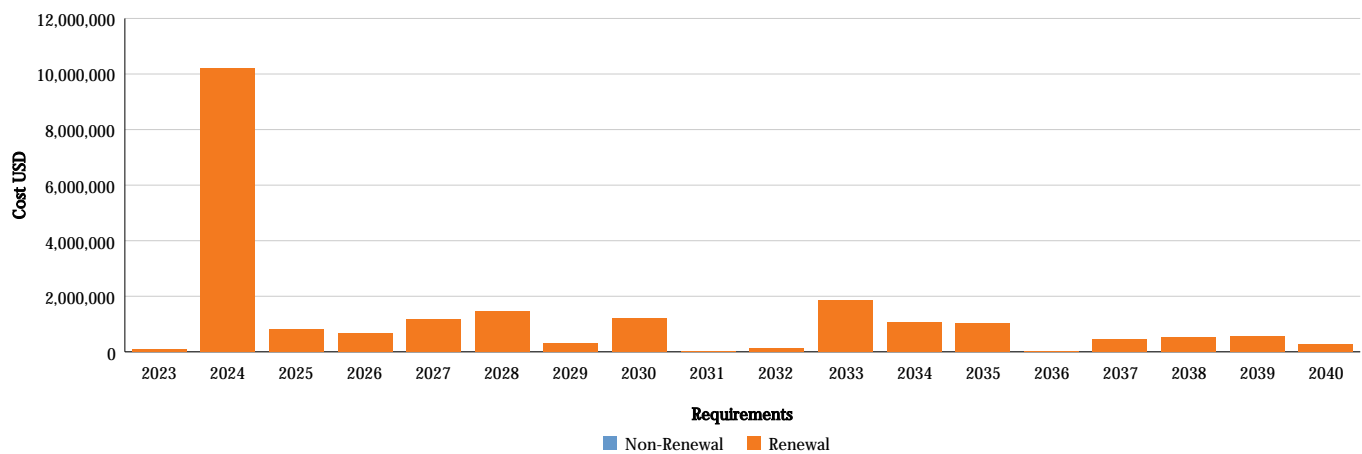
Current Replacement Value

30,722,427

Size

96,906 SF

## Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2023	78,743	7,182	85,925
2024	10,203,249	0	10,203,249
2025	793,792	0	793,792
2026	678,149	0	678,149
2027	1,177,577	0	1,177,577
2028	1,440,575	0	1,440,575
2029	308,667	0	308,667
2030	1,215,772	0	1,215,772
2031	2,438	0	2,438
2032	117,801	0	117,801
2033	1,871,628	0	1,871,628
2034	1,075,629	0	1,075,629
2035	1,037,859	0	1,037,859
2036	8,387	0	8,387
2037	443,292	0	443,292



# Requirement Forecast Report

## By Name

Year	Renewal Requirements	Non-Renewal Requirements	Total
2038	521,735	0	521,735
2039	575,178	0	575,178
2040	262,276	0	262,276
<b>Total</b>	<b>21,812,745</b>	<b>7,182</b>	<b>21,819,928</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2023	D5021 - Branch Wiring Devices	Branch Wiring System - Conduit Floor Penetrations Lacking Fire Stopping	0	7,182	7,182
	D3068 - Building Automation Systems	Air Compressor - HVAC Controls - Reciprocating - Duplex 5 HP Renewal	78,743	0	78,743
	<b>Subtotal for 2023</b>		<b>78,743</b>	<b>7,182</b>	<b>85,925</b>
2024	G4024 - Site Lighting Controls	Lighting Control System - Contactor - Outside Lighting Renewal	8,245	0	8,245
	E1093 - Food Service Equipment	Refrigerated Storage - Kitchen Walk-Ins Renewal	58,054	0	58,054
	D5033 - Telephone Systems	Telephone System Renewal	328,229	0	328,229
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.1 Renewal	5,327	0	5,327
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use - 2007 Renewal	3,536	0	3,536
	D3040 - Distribution Systems	Air Handling Unit - Indoor - VAV - SF-2 Renewal	287,138	0	287,138
	D5035 - Television Systems	Cable Television CATV System Renewal	42,304	0	42,304
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	136,653	0	136,653
	D3040 - Distribution Systems	HVAC Ductwork - Return Renewal	389,299	0	389,299
	D2030 - Sanitary Waste	Sanitary Waste - Gravity Discharge Renewal	409,951	0	409,951
	D20 - Plumbing	Sump Pumps - Rm B04 Renewal	2,401	0	2,401
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.2 Renewal	33,235	0	33,235
	D3060 - Controls and Instrumentation	DDC/Pneumatic Controls - Hybrid Renewal	955,988	0	955,988
	D5032 - Intercommunication and Paging System	Emergency Communications - Security Renewal	15,700	0	15,700
	D5092 - Emergency Light and Power Systems	Emergency Electrical Distribution - ATS - 400A, 480V, 3PH Renewal	15,388	0	15,388
	D3040 - Distribution Systems	Return Air Fan - RF-2 Renewal	49,342	0	49,342
	D2010 - Plumbing Fixtures	Sinks - Custodial/Utility Renewal	42,799	0	42,799
	G4023 - Wiring Conduits and Ductbanks	Site Lighting - Underground Circuitry - Building to Globe Fixtures Renewal	9,152	0	9,152
	G4023 - Wiring Conduits and Ductbanks	Site Lighting - Underground Circuitry - Globe Fixtures Renewal	16,775	0	16,775
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.3 Renewal	48,411	0	48,411
	D3040 - Distribution Systems	HVAC Ductwork - Supply - VAV Renewal	4,574,152	0	4,574,152
	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices Renewal	659,686	0	659,686
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 480/277V & 208/120V, 3PH Renewal	434,463	0	434,463
	D5092 - Emergency Light and Power Systems	Emergency Generator - 175kW - Diesel - Interior Renewal	103,671	0	103,671
	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Addressable Renewal	130,147	0	130,147
	D5022 - Lighting Equipment	Lighting Control System - Relay Renewal	160,459	0	160,459
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Soffits Renewal	4,710	0	4,710
	G4021 - Fixtures and Transformers	Lighting Fixtures - Site - HID - Globe - Sidewalks Renewal	28,830	0	28,830
	G4022 - Poles	Site Lighting - Concrete Pole/Base for Globe Fixture - Sidewalks Renewal	42,433	0	42,433
	D3040 - Distribution Systems	Air Handling Unit - Indoor - VAV - SF-1 Renewal	287,138	0	287,138



# Requirement Forecast Report

## By Name

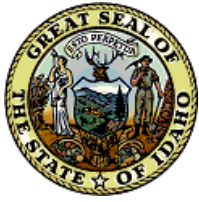
Year	System	Requirement Name	Renewal	Non-Renewal	Total
2024	D5092 - Emergency Light and Power Systems	Exit Signs - LED Renewal	94,132	0	94,132
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Wall Packs Renewal	5,113	0	5,113
	D3040 - Distribution Systems	Return Air Fan - RF-1 Renewal	49,342	0	49,342
	D3050 - Terminal and Package Units	Split System Heat Pump - 2 Ton Renewal	5,800	0	5,800
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.3 Renewal	33,235	0	33,235
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.1 Renewal	40,531	0	40,531
	D5012 - Low Tension Service and Dist.	Distribution System - Interior Distribution Transformers Renewal	88,652	0	88,652
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	50,633	0	50,633
	D40 - Fire Protection	Kitchen Hood Suppression Renewal	14,363	0	14,363
	D5012 - Low Tension Service and Dist.	Motor Control Center - 600A, 480V, 3PH Renewal	170,165	0	170,165
	D2040 - Rain Water Drainage	Roof Drainage - Gravity Renewal	319,255	0	319,255
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.2 Renewal	48,411	0	48,411
		<b>Subtotal for 2024</b>	<b>10,203,249</b>	<b>0</b>	<b>10,203,249</b>
2025	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	361,452	0	361,452
	D4020 - Standpipes	Standpipe System - Dry Renewal	53,548	0	53,548
	B2010 - Exterior Walls	Exterior Coatings - Painted Finish Renewal	17,340	0	17,340
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Hot Water Renewal	361,452	0	361,452
		<b>Subtotal for 2025</b>	<b>793,792</b>	<b>0</b>	<b>793,792</b>
2026	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	382,108	0	382,108
	D3050 - Terminal and Package Units	Split System AC - 5 Ton - Elevator Machine Rooms Renewal	18,332	0	18,332
	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	277,709	0	277,709
		<b>Subtotal for 2026</b>	<b>678,149</b>	<b>0</b>	<b>678,149</b>
2027	C3020 - Floor Finishes	Carpeting - Broadloom Renewal	852,254	0	852,254
	D5038 - Security and Detection Systems	Security System - CCTV - 2017 Renewal	140,609	0	140,609
	D3040 - Distribution Systems	HVAC Pump - Chilled Water - In-Line - 5 HP Renewal	45,281	0	45,281
	D5038 - Security and Detection Systems	Security System - Access Control System - 2017 Renewal	139,433	0	139,433
		<b>Subtotal for 2027</b>	<b>1,177,577</b>	<b>0</b>	<b>1,177,577</b>
2028	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	25,022	0	25,022
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - T8 - General Overhead Renewal	457,115	0	457,115
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	427,802	0	427,802
	B2030 - Exterior Doors	Automatic Openers - Pair - Exterior Renewal	101,844	0	101,844
	B2010 - Exterior Walls	Exterior Sealants Renewal	130,290	0	130,290
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	198,555	0	198,555
	C3020 - Floor Finishes	Quarry Tile Renewal	99,946	0	99,946
		<b>Subtotal for 2028</b>	<b>1,440,575</b>	<b>0</b>	<b>1,440,575</b>
2029	B2030 - Exterior Doors	Exterior Doors - Pair - Aluminum - Glazed Renewal	107,827	0	107,827
	B2010 - Exterior Walls	Exterior Closure - Corrugated Metal Panels Renewal	63,685	0	63,685
	D2020 - Domestic Water Distribution	Water Heaters - Elec - 30 Gal Renewal	30,985	0	30,985
	D2020 - Domestic Water Distribution	Water Heaters - Elec - 40 Gal Renewal	17,775	0	17,775
	C3010 - Wall Finishes	Ceramic Wall Tile Renewal	88,395	0	88,395
		<b>Subtotal for 2029</b>	<b>308,667</b>	<b>0</b>	<b>308,667</b>
2030	D5039 - Local Area Networks	LAN & VoIP System Renewal	513,871	0	513,871
	C3020 - Floor Finishes	Ceramic Floor Tile Renewal	72,699	0	72,699
	B2030 - Exterior Doors	Exterior Doors - Single - Hollow Metal Renewal	6,603	0	6,603



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2030	D4010 - Sprinklers	Sprinkler System - Wet - Light Hazard Renewal	417,663	0	417,663
	E1090 - Other Equipment	Access Fixed Ladders - Exterior Renewal	5,354	0	5,354
	G2042 - Retaining Walls	Retaining Wall - Precast Concrete Interlocking Renewal	54,223	0	54,223
	C1035 - Identifying Devices	Fittings - Signage Renewal	61,002	0	61,002
	C1020 - Interior Doors	Automatic Openers - Single - Interior Renewal	62,422	0	62,422
	C3010 - Wall Finishes	Painted Finish Renewal	21,934	0	21,934
		<b>Subtotal for 2030</b>	<b>1,215,772</b>	<b>0</b>	<b>1,215,772</b>
2031	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use - 2021 Renewal	2,438	0	2,438
		<b>Subtotal for 2031</b>	<b>2,438</b>	<b>0</b>	<b>2,438</b>
2032	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	117,801	0	117,801
		<b>Subtotal for 2032</b>	<b>117,801</b>	<b>0</b>	<b>117,801</b>
2033	E2012 - Fixed Casework	Fixed Casework - Stainless Steel Countertops Renewal	56,717	0	56,717
	C1030 - Fittings	Restroom Accessories Renewal	223,496	0	223,496
	C3030 - Ceiling Finishes	ACT System - Older Renewal	1,371,592	0	1,371,592
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Sidewalk - 4-Ft. Wide Renewal	169,321	0	169,321
	D2020 - Domestic Water Distribution	Water Heater - Elec - Comm - 120 Gal Renewal	50,501	0	50,501
		<b>Subtotal for 2033</b>	<b>1,871,628</b>	<b>0</b>	<b>1,871,628</b>
2034	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	216,314	0	216,314
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	80,150	0	80,150
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use - 2007 Renewal	5,597	0	5,597
	D5022 - Lighting Equipment	Lighting Control System - Relay Renewal	253,998	0	253,998
	D5033 - Telephone Systems	Telephone System Renewal	519,569	0	519,569
		<b>Subtotal for 2034</b>	<b>1,075,629</b>	<b>0</b>	<b>1,075,629</b>
2035	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	29,253	0	29,253
	B2020 - Exterior Windows	Aluminum Windows Renewal	1,008,605	0	1,008,605
		<b>Subtotal for 2035</b>	<b>1,037,859</b>	<b>0</b>	<b>1,037,859</b>
2036	C3020 - Floor Finishes	Vinyl Plank Flooring Renewal	4,220	0	4,220
	D20 - Plumbing	Sump Pumps - Rm B04 Renewal	4,167	0	4,167
		<b>Subtotal for 2036</b>	<b>8,387</b>	<b>0</b>	<b>8,387</b>
2037	D5038 - Security and Detection Systems	Security System - CCTV - 2017 Renewal	222,577	0	222,577
	D5038 - Security and Detection Systems	Security System - Access Control System - 2017 Renewal	220,715	0	220,715
		<b>Subtotal for 2037</b>	<b>443,292</b>	<b>0</b>	<b>443,292</b>
2038	D3050 - Terminal and Package Units	Computer Room Cooling - DX w/Air Cooled Remote Condenser Renewal	521,735	0	521,735
		<b>Subtotal for 2038</b>	<b>521,735</b>	<b>0</b>	<b>521,735</b>
2039	D3050 - Terminal and Package Units	Split System Heat Pump - 2 Ton Renewal	11,551	0	11,551
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.1 Renewal	10,609	0	10,609
	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Addressable Renewal	259,199	0	259,199
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.3 Renewal	66,191	0	66,191
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.2 Renewal	66,191	0	66,191
	D2020 - Domestic Water Distribution	Water Heaters - Elec - 40 Gal Renewal	28,137	0	28,137
	D2020 - Domestic Water Distribution	Water Heaters - Elec - 30 Gal Renewal	49,048	0	49,048
	D5035 - Television Systems	Cable Television CATV System Renewal	84,252	0	84,252
		<b>Subtotal for 2039</b>	<b>575,178</b>	<b>0</b>	<b>575,178</b>
2040	B2010 - Exterior Walls	Exterior Coatings - Painted Finish Renewal	34,535	0	34,535



## Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2040	B2016 - Exterior Soffits	Plaster Soffit System Renewal	227,741	0	227,741
Subtotal for 2040			262,276	0	262,276
Total			21,812,745	7,182	21,819,928





# Requirement Forecast Report

*By Name*

Agency: State of Idaho

Asset: Parking Garage #1

Campus: Capitol Mall

Asset Number: 6

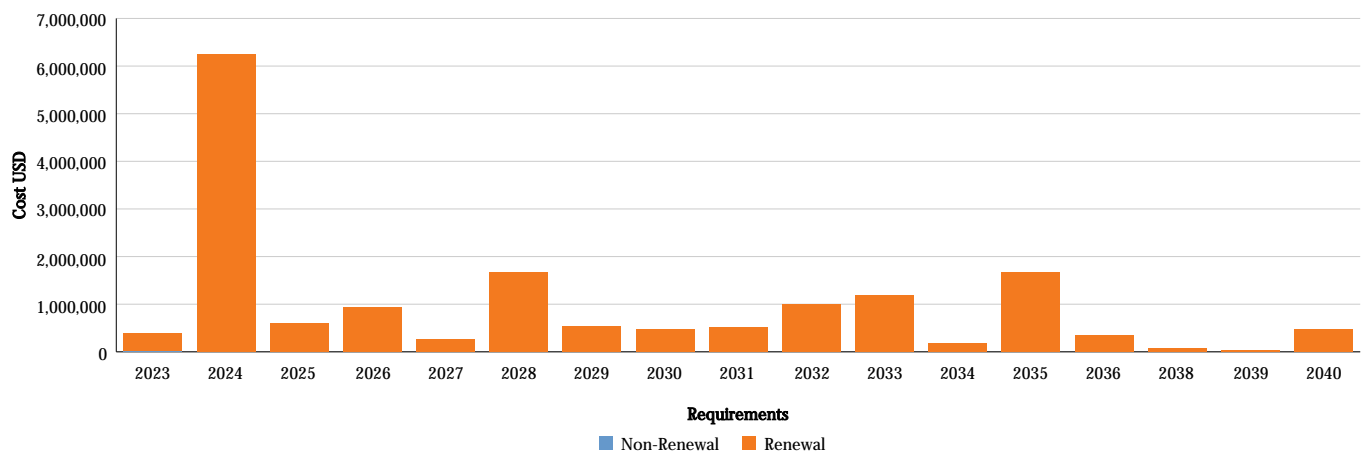
Report is grouped by Year

Currency: USD

Address 1	550 W. State	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

Current Replacement Value 27,349,710 Size 145,640 SF

## Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2023	377,600	20,718	398,319
2024	6,241,420	0	6,241,420
2025	596,066	0	596,066
2026	929,811	0	929,811
2027	272,685	0	272,685
2028	1,672,698	0	1,672,698
2029	533,723	0	533,723
2030	475,147	0	475,147
2031	519,535	0	519,535
2032	992,080	0	992,080
2033	1,191,603	0	1,191,603
2034	169,221	0	169,221
2035	1,675,005	0	1,675,005
2036	352,028	0	352,028
2038	82,389	0	82,389



# Requirement Forecast Report

## By Name

Year	Renewal Requirements	Non-Renewal Requirements	Total
2039	24,090	0	24,090
2040	472,808	0	472,808
<b>Total</b>	<b>16,577,909</b>	<b>20,718</b>	<b>16,598,627</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2023	D5012 - Low Tension Service and Dist.	Main Electrical Service SWBD - Electrical Room - Lacking 2nd Means of Egress	0	16,532	16,532
	D5037 - Fire Alarm Systems	Fire Alarm System - Lacking Manual Pull Stations - Basement Exits	0	3,566	3,566
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	13,420	0	13,420
	D5021 - Branch Wiring Devices	Branch Wiring System - Outlets Lacking GFCI Type Receptacles & Covers - Roof	0	620	620
	D4010 - Sprinklers	Sprinkler System - Wet - Ordinary Hazard Renewal	364,180	0	364,180
<b>Subtotal for 2023</b>			<b>377,600</b>	<b>20,718</b>	<b>398,319</b>
2024	D2090 - Other Plumbing Systems	Air Compressors - Duplex 25 HP Renewal	446,857	0	446,857
	D5021 - Branch Wiring Devices	Branch Wiring - Heat Tracing System - Parking Area Renewal	66,186	0	66,186
	D3040 - Distribution Systems	HVAC Ductwork - Supply - Single Zone Renewal	195,026	0	195,026
	D3060 - Controls and Instrumentation	Pneumatic Controls Renewal	272,983	0	272,983
	D2010 - Plumbing Fixtures	Sinks - Custodial/Utility Renewal	14,451	0	14,451
	D5033 - Telephone Systems	Telephone System Renewal	51,549	0	51,549
	D5032 - Intercommunication and Paging System	Emergency Communications - Security Renewal	28,784	0	28,784
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - HID - Garage Area Renewal	1,080,599	0	1,080,599
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	43,618	0	43,618
	D3050 - Terminal and Package Units	Unit and Cabinet Unit Heaters - Hot Water Renewal	58,841	0	58,841
	D2020 - Domestic Water Distribution	Water Heater - Elec - 30 Gal Renewal	6,157	0	6,157
	D3040 - Distribution Systems	HVAC Ductwork - Return Renewal	117,016	0	117,016
	D3040 - Distribution Systems	HVAC Pump - Chilled Water Return - Base-Mounted - 20 HP Renewal	74,606	0	74,606
	D1010 - Elevators and Lifts	Hydraulic Passenger Elevator - 5 Story - 3000 lb - Elevator 1 Renewal	268,528	0	268,528
	D1010 - Elevators and Lifts	Hydraulic Passenger Elevator - 5 Story - 3500 lb - Elevator 2 Renewal	274,837	0	274,837
	D5012 - Low Tension Service and Dist.	Motor Control Center - No.1 - 800A, 480V, 3PH Renewal	130,246	0	130,246
	D5092 - Emergency Light and Power Systems	Exit Signs - CFL - 2000 Renewal	11,149	0	11,149
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Fluorescent - Basement Renewal	149,013	0	149,013
	D5012 - Low Tension Service and Dist.	Motor Control Center - No.2 - 800A, 480V, 3PH Renewal	105,001	0	105,001
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-1 Renewal	120,752	0	120,752
	D3030 - Cooling Generating Systems	Chiller - Centrifugal - 450 Ton - CH-1 Renewal	401,804	0	401,804
	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	76,148	0	76,148
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID Renewal	6,136	0	6,136
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	311,304	0	311,304
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Hot Water Renewal	311,304	0	311,304
	D3060 - Controls and Instrumentation	Refrigerant Leak Detection System Renewal	12,478	0	12,478
	D3050 - Terminal and Package Units	Split System AC - 2 Ton Renewal	7,293	0	7,293
	D3030 - Cooling Generating Systems	Chiller - Centrifugal - 450 Ton - CH-2 Renewal	401,804	0	401,804
	D2020 - Domestic Water Distribution	Domestic Water Distribution Piping - Plant Area Renewal	180,896	0	180,896



# Requirement Forecast Report

## *By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2024	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices - 1973 Renewal	736,964	0	736,964
	D2020 - Domestic Water Distribution	Domestic Water Distribution Piping - Low Density Renewal	108,974	0	108,974
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units - 2000 Renewal	38,048	0	38,048
	D5012 - Low Tension Service and Dist.	Secondary Distribution Switchboard - MSB-1 - 1600A, 480/277V, 3PH Renewal	132,067	0	132,067
<b>Subtotal for 2024</b>			<b>6,241,420</b>	<b>0</b>	<b>6,241,420</b>
2025	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	215,028	0	215,028
	B2030 - Exterior Doors	Exterior Doors - Single - Hollow Metal Renewal	146,948	0	146,948
	D5022 - Lighting Equipment	Lighting Control System - Contactor - Parking Area Renewal	10,436	0	10,436
	G4021 - Fixtures and Transformers	Site Lighting - 4 Fixture - HID - Garage Roof Renewal	19,099	0	19,099
	D5038 - Security and Detection Systems	Security System - Access Control System Renewal	98,133	0	98,133
	D5038 - Security and Detection Systems	Security System - CCTV Renewal	98,960	0	98,960
	G4022 - Poles	Site Lighting - Pole - Aluminum - 20 ft - Parking Lot Renewal	7,462	0	7,462
<b>Subtotal for 2025</b>			<b>596,066</b>	<b>0</b>	<b>596,066</b>
2026	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units - 2016 Renewal	41,709	0	41,709
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	1,938	0	1,938
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Sidewalk - 4-Ft. Wide Renewal	143,229	0	143,229
	D3030 - Cooling Generating Systems	Chiller - Centrifugal - 500 Ton - CH-3 Renewal	489,401	0	489,401
	D2040 - Rain Water Drainage	Floor Drainage - Gravity Renewal	118,455	0	118,455
	D2030 - Sanitary Waste	Sanitary Waste - Gravity Discharge - Plant Area Renewal	135,078	0	135,078
<b>Subtotal for 2026</b>			<b>929,811</b>	<b>0</b>	<b>929,811</b>
2027	C3020 - Floor Finishes	VCT Renewal	27,023	0	27,023
	C3020 - Floor Finishes	Carpeting - Tile Renewal	15,656	0	15,656
	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Addressable Renewal	224,494	0	224,494
	D20 - Plumbing	Sump Pumps - Plant Renewal	5,512	0	5,512
<b>Subtotal for 2027</b>			<b>272,685</b>	<b>0</b>	<b>272,685</b>
2028	D3040 - Distribution Systems	HVAC Pump - Condenser Water - Base-Mounted - 50 HP Renewal	237,746	0	237,746
	C3010 - Wall Finishes	Painted Finish Renewal	10,327	0	10,327
	B2020 - Exterior Windows	Aluminum Windows Renewal	387,158	0	387,158
	C1030 - Fittings	Restroom Accessories Renewal	49,961	0	49,961
	D2010 - Plumbing Fixtures	Restroom Fixtures - Shower - Individual Prefab Renewal	3,556	0	3,556
	D3040 - Distribution Systems	HVAC Pump - Chilled Water Supply - Base-Mounted - 75 HP Renewal	215,769	0	215,769
	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	12,509	0	12,509
	B2015 - Balcony Walls and Handrails	Exterior Railings - Steel Pipe Renewal	40,390	0	40,390
	D2010 - Plumbing Fixtures	Emergency Eyewash Renewal	3,932	0	3,932
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	199,641	0	199,641
	C1034 - Ornamental Metals and Handrails	Guard Railing System - Steel Pipe Renewal	403,900	0	403,900
	C3020 - Floor Finishes	Rubber Tile - Stair Landings Renewal	41,570	0	41,570
	C1035 - Identifying Devices	Fittings - Signage Renewal	17,140	0	17,140
	D3040 - Distribution Systems	HVAC Pump - Chilled Water Return - Base-Mounted - 25 HP Renewal	49,100	0	49,100
<b>Subtotal for 2028</b>			<b>1,672,698</b>	<b>0</b>	<b>1,672,698</b>
2029	C1020 - Interior Doors	Interior Doors - Hollow Metal Renewal	244,008	0	244,008
	C3020 - Floor Finishes	Ceramic Floor Tile Renewal	5,786	0	5,786
	C1020 - Interior Doors	Overhead Doors - Rolling Counter Door - Small Renewal	7,276	0	7,276
	B1014 - Ramps	Exterior Ramp - Service - Concrete Renewal	254,844	0	254,844



# Requirement Forecast Report

## By Name

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2029	C1010 - Partitions	Windows/Storefront Partitions - Metal Renewal	21,808	0	21,808
		<b>Subtotal for 2029</b>	<b>533,723</b>	<b>0</b>	<b>533,723</b>
2030	D3093 - Dust and Fume Collectors	Dust Collection System Renewal	29,123	0	29,123
	D5039 - Local Area Networks	LAN System Renewal	160,047	0	160,047
	C3030 - Ceiling Finishes	ACT System Renewal	226,335	0	226,335
	D5092 - Emergency Light and Power Systems	Exit Signs - LED - 2010 Renewal	46,589	0	46,589
	C3020 - Floor Finishes	Painted Finish or Sealer on Concrete Renewal	5,973	0	5,973
	C3020 - Floor Finishes	Vinyl Sheet Goods Renewal	7,081	0	7,081
		<b>Subtotal for 2030</b>	<b>475,147</b>	<b>0</b>	<b>475,147</b>
2031	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Condenser Water Free Cooling Renewal	352,829	0	352,829
	G2020 - Parking Lots	Parking Lot - Striping - Straight-in Renewal	144,269	0	144,269
	D2020 - Domestic Water Distribution	Water Heater - Elec - 80 Gal Renewal	16,140	0	16,140
	D2020 - Domestic Water Distribution	Water Heater - Elec - 20 Gal Renewal	6,298	0	6,298
		<b>Subtotal for 2031</b>	<b>519,535</b>	<b>0</b>	<b>519,535</b>
2032	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	756,478	0	756,478
	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	235,602	0	235,602
		<b>Subtotal for 2032</b>	<b>992,080</b>	<b>0</b>	<b>992,080</b>
2033	B2013 - Exterior Louvers, Screens, and Fencing	Metal Wall Louvers Renewal	135,674	0	135,674
	B2013 - Exterior Louvers, Screens, and Fencing	Precast Concrete Screen Walls Renewal	824,546	0	824,546
	B2010 - Exterior Walls	Exterior Sealants Renewal	209,824	0	209,824
	C1020 - Interior Doors	Overhead Doors - Rolling Metal Door - Electric - Medium Renewal	21,559	0	21,559
		<b>Subtotal for 2033</b>	<b>1,191,603</b>	<b>0</b>	<b>1,191,603</b>
2034	D2020 - Domestic Water Distribution	Water Heater - Elec - 30 Gal Renewal	9,746	0	9,746
	D5033 - Telephone Systems	Telephone System Renewal	81,599	0	81,599
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units - 2000 Renewal	60,228	0	60,228
	D5092 - Emergency Light and Power Systems	Exit Signs - CFL - 2000 Renewal	17,648	0	17,648
		<b>Subtotal for 2034</b>	<b>169,221</b>	<b>0</b>	<b>169,221</b>
2035	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices - 1995 Renewal	421,757	0	421,757
	G2041 - Fences and Gates	Fencing - Chain Link Renewal	8,022	0	8,022
	D5038 - Security and Detection Systems	Security System - Access Control System Renewal	155,339	0	155,339
	C1033 - Storage Shelving and Lockers	Fixed Lockers - Metal Renewal	19,258	0	19,258
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 480Y/277V & 208Y/120V, 3PH Renewal	329,175	0	329,175
	D5012 - Low Tension Service and Dist.	Distribution System - Interior Distribution Transformers & Feeders - 208/120V, 3PH Renewal	156,838	0	156,838
	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	43,965	0	43,965
	C1030 - Fittings	Toilet Partitions - Metal Renewal	43,623	0	43,623
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	340,379	0	340,379
	D5038 - Security and Detection Systems	Security System - CCTV Renewal	156,649	0	156,649
		<b>Subtotal for 2035</b>	<b>1,675,005</b>	<b>0</b>	<b>1,675,005</b>
2036	D2020 - Domestic Water Distribution	Condenser Water Storage Tank - Galvanized Steel - 20,000 Gal Renewal	282,937	0	282,937
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units - 2016 Renewal	66,023	0	66,023
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	3,068	0	3,068



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
Subtotal for 2036			352,028	0	352,028
2038	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	26,727	0	26,727
	B3010 - Roof Coverings	Single-Ply Membrane Renewal	55,661	0	55,661
Subtotal for 2038			82,389	0	82,389
2039	D20 - Plumbing	Sump Pumps - Plant Renewal	9,565	0	9,565
	D3050 - Terminal and Package Units	Split System AC - 2 Ton Renewal	14,525	0	14,525
Subtotal for 2039			24,090	0	24,090
2040	D5012 - Low Tension Service and Dist.	Main Distribution Switchboard - MSB-2 - 2000A, 480/277V, 3PH Renewal	472,808	0	472,808
Subtotal for 2040			472,808	0	472,808
Total			16,577,909	20,718	16,598,627



# Requirement Forecast Report

## By Name

Agency: State of Idaho

Asset: Parking Garage #2

Campus: Capitol Mall

Asset Number: 7

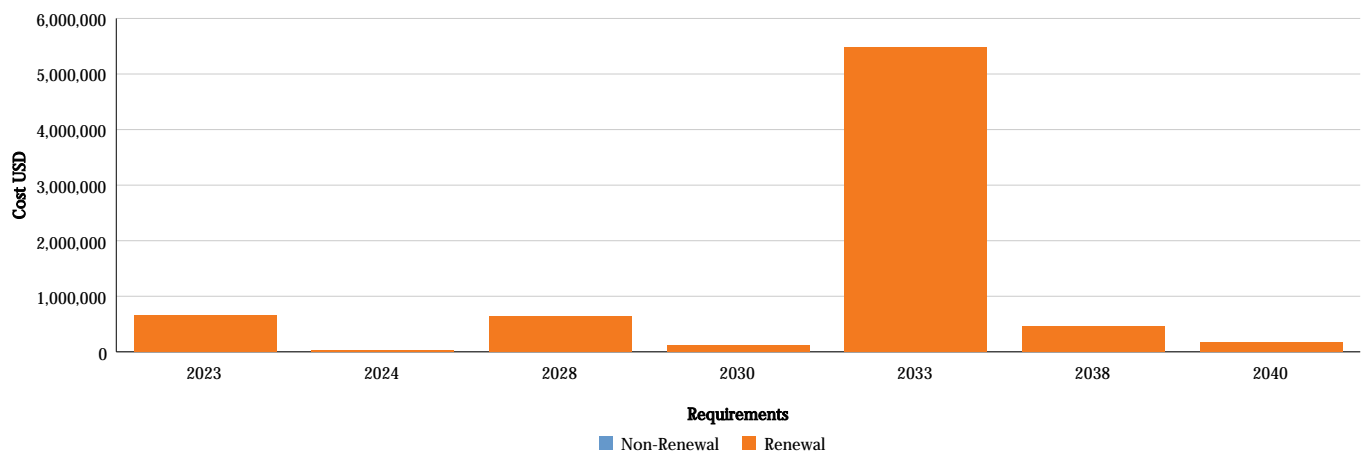
Report is grouped by Year

Currency: USD

Address 1	608 W. Washington	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

Current Replacement Value 23,096,944 Size 138,736 SF

### Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2023	660,366	0	660,366
2024	28,784	0	28,784
2028	636,464	0	636,464
2030	108,266	0	108,266
2033	5,485,795	0	5,485,795
2038	458,076	0	458,076
2040	171,379	0	171,379
<b>Total</b>	<b>7,549,130</b>	<b>0</b>	<b>7,549,130</b>

### Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2023	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	138,470	0	138,470
	D5038 - Security and Detection Systems	Security System - CCTV Renewal	335,038	0	335,038
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	186,858	0	186,858



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
<b>Subtotal for 2023</b>			<b>660,366</b>	<b>0</b>	<b>660,366</b>
2024	D5032 - Intercommunication and Paging System	Emergency Communications - Security Renewal	28,784	0	28,784
<b>Subtotal for 2024</b>			<b>28,784</b>	<b>0</b>	<b>28,784</b>
2028	C3010 - Wall Finishes	Painted Finish Renewal	45,828	0	45,828
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.2 - Cab Finishes Renewal	40,420	0	40,420
	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Addressable Renewal	223,903	0	223,903
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.1 - Cab Finishes Renewal	40,420	0	40,420
	D5022 - Lighting Equipment	Lighting Control - Interior Renewal	285,893	0	285,893
<b>Subtotal for 2028</b>			<b>636,464</b>	<b>0</b>	<b>636,464</b>
2030	G2020 - Parking Lots	Parking Lot - Striping - Straight-in Renewal	108,266	0	108,266
<b>Subtotal for 2030</b>			<b>108,266</b>	<b>0</b>	<b>108,266</b>
2033	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	219,191	0	219,191
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - LED Renewal	33,634	0	33,634
	B2010 - Exterior Walls	Exterior Sealants Renewal	262,280	0	262,280
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.2 - Control System Renewal	72,064	0	72,064
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	754,487	0	754,487
	D5092 - Emergency Light and Power Systems	Exit Signs - LED Renewal	203,749	0	203,749
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - No.1 - Control System Renewal	72,064	0	72,064
	D5038 - Security and Detection Systems	Security System - CCTV Renewal	530,348	0	530,348
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - LED - Floodlight Renewal	3,014,184	0	3,014,184
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	295,786	0	295,786
	G4021 - Fixtures and Transformers	Site Lighting - 1-Fixture - LED - Parking Lot Renewal	10,874	0	10,874
	G2041 - Fences and Gates	Sliding Gates - Chain Link - Electric Renewal	17,135	0	17,135
<b>Subtotal for 2033</b>			<b>5,485,795</b>	<b>0</b>	<b>5,485,795</b>
2038	D3050 - Terminal and Package Units	Unit and Cabinet Unit Heaters - Hot Water Renewal	55,964	0	55,964
	B3010 - Roof Coverings	Single-Ply Membrane Renewal	40,481	0	40,481
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Sidewalk - 4-Ft. Wide Renewal	284,043	0	284,043
	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	77,589	0	77,589
<b>Subtotal for 2038</b>			<b>458,076</b>	<b>0</b>	<b>458,076</b>
2040	G2020 - Parking Lots	Parking Lot - Striping - Straight-in Renewal	171,379	0	171,379
<b>Subtotal for 2040</b>			<b>171,379</b>	<b>0</b>	<b>171,379</b>
<b>Total</b>			<b>7,549,130</b>	<b>0</b>	<b>7,549,130</b>



# Requirement Forecast Report

*By Name*

Agency: State of Idaho

Asset: Pete T. Cenarrusa

Campus: Capitol Mall

Asset Number: 8

Report is grouped by Year

Currency: USD

Address 1	450 W. State	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

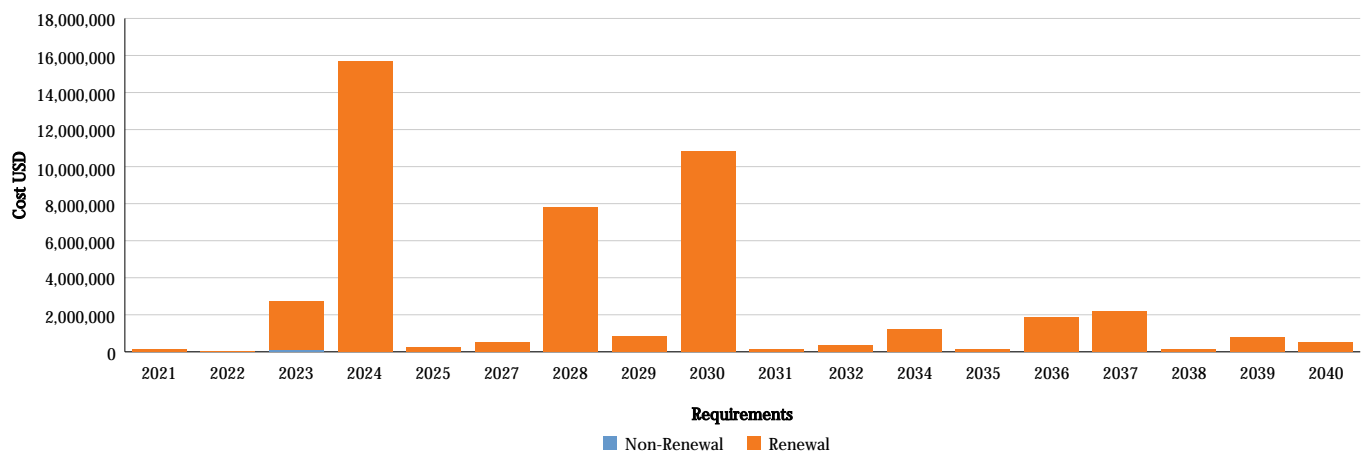
Current Replacement Value

48,932,806

Size

169,128 SF

## Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2021	154,246	0	154,246
2022	0	1,627	1,627
2023	2,609,255	138,903	2,748,158
2024	15,684,471	0	15,684,471
2025	269,357	0	269,357
2027	538,442	0	538,442
2028	7,792,101	0	7,792,101
2029	818,643	0	818,643
2030	10,837,740	0	10,837,740
2031	157,256	0	157,256
2032	362,030	0	362,030
2034	1,190,720	0	1,190,720
2035	120,946	0	120,946
2036	1,862,810	0	1,862,810
2037	2,177,409	0	2,177,409





# Requirement Forecast Report

## By Name

Year	Renewal Requirements	Non-Renewal Requirements	Total
2038	158,733	0	158,733
2039	781,617	0	781,617
2040	521,932	0	521,932
<b>Total</b>	<b>46,037,708</b>	<b>140,530</b>	<b>46,178,238</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2021	E1093 - Food Service Equipment	Refrigerated Storage - Kitchen Walk-In - Rm 023 Renewal	25,291	0	25,291
	D3040 - Distribution Systems	Heat Exchanger - Steam/HW - Shell and Tube - Abandon Renewal	128,955	0	128,955
		<b>Subtotal for 2021</b>	<b>154,246</b>	<b>0</b>	<b>154,246</b>
2022	D4010 - Sprinklers	Fire Protection - Sprinkler Discharge Pattern Obstructed	0	1,627	1,627
		<b>Subtotal for 2022</b>	<b>0</b>	<b>1,627</b>	<b>1,627</b>
2023	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	13,420	0	13,420
	D5012 - Low Tension Service and Dist.	Electrical System - Lacking Arc Flash Labeling - 2017	0	66,744	66,744
	D5021 - Branch Wiring Devices	Branch Wiring System - Conduit Floor Penetrations Lacking Fire Stopping	0	7,182	7,182
	D5012 - Low Tension Service and Dist.	Main Electrical Service - Electrical Room - Incorrect Door Swing and Missing Panic Hardware	0	5,620	5,620
	D5037 - Fire Alarm Systems	Fire Alarm Systems - Horn/Strobes Lacking - Building	0	58,262	58,262
	D5021 - Branch Wiring Devices	Branch Wiring System - HVAC Units Lacking GFCI Receptacles (Roof)	0	1,094	1,094
	D3068 - Building Automation Systems	Air Compressor - HVAC Controls - Reciprocating - Duplex 5 HP Renewal	78,743	0	78,743
	D2020 - Domestic Water Distribution	Domestic Water Distribution Piping Renewal	1,003,202	0	1,003,202
	D3060 - Controls and Instrumentation	Pneumatic Controls Renewal	1,513,891	0	1,513,891
		<b>Subtotal for 2023</b>	<b>2,609,255</b>	<b>138,903</b>	<b>2,748,158</b>
2024	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 480/277V & 208/120V, 3PH Renewal	614,419	0	614,419
	D5092 - Emergency Light and Power Systems	Exit Signs - LED Renewal	164,286	0	164,286
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Soffits Renewal	25,567	0	25,567
	D3011 - Oil Supply System	Underground Fuel Tank - Steel - 1000 Gal Renewal	59,193	0	59,193
	D5012 - Low Tension Service and Dist.	Motor Control Center - MCC-3 - 600A, 480V, 3PH Renewal	74,735	0	74,735
	D5012 - Low Tension Service and Dist.	Normal Power Main Service Entrance Switchboard - Lighting - 3000A, 480/277V, 3PH Renewal	218,306	0	218,306
	D5012 - Low Tension Service and Dist.	Normal Power Main Service Entrance Switchboard - Power - 3000A, 480/277V, 3PH Renewal	181,201	0	181,201
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	1,768	0	1,768
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-E Renewal	336,927	0	336,927
	D5092 - Emergency Light and Power Systems	Emergency Generator - 600kW - Diesel - Interior - Facilities Renewal	347,485	0	347,485
	D5022 - Lighting Equipment	Lighting Control System - Relay Renewal	91,691	0	91,691
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Wall Packs Renewal	5,113	0	5,113
	G4021 - Fixtures and Transformers	Lighting Fixtures - Site - HID - Globe/Square - Sidewalks Renewal	36,037	0	36,037
	D2010 - Plumbing Fixtures	Sinks - Custodial/Utility Renewal	79,482	0	79,482
	D5021 - Branch Wiring Devices	Branch Wiring - Trench Duct System Renewal	1,546,627	0	1,546,627
	D5092 - Emergency Light and Power	Emergency Power Main Distribution Switchboard - 1000A, 480/277V, 3PH Renewal	64,986	0	64,986



# Requirement Forecast Report

## By Name

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2024	Systems				
	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	442,142	0	442,142
	G4024 - Site Lighting Controls	Lighting Control System - Contactor - Outside Lighting Renewal	8,245	0	8,245
	G4021 - Fixtures and Transformers	Lighting Fixtures - Site - HID - Well Lights - Flagpoles Renewal	15,227	0	15,227
	D5012 - Low Tension Service and Dist.	Motor Control Center - MCC-2 - 600A, 480V, 3PH Renewal	103,525	0	103,525
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	1,807,548	0	1,807,548
	G4022 - Poles	Site Lighting - Concrete Pole/Base for Globe/Square Fixture - Sidewalks/Entrance Renewal	66,302	0	66,302
	G4023 - Wiring Conduits and Ductbanks	Site Lighting - Underground Circuitry - Globe/Square Fixtures Renewal	20,969	0	20,969
	D5033 - Telephone Systems	Telephone System Renewal	572,851	0	572,851
	D5032 - Intercommunication and Paging System	Emergency Communications - Security Renewal	5,233	0	5,233
	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Zoned Renewal	392,458	0	392,458
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	85,907	0	85,907
	G4023 - Wiring Conduits and Ductbanks	Site Lighting - Underground Circuitry - Building to Globe/Square Fixtures Renewal	9,152	0	9,152
	D4010 - Sprinklers	Sprinkler System - Wet - Light Hazard Renewal	166,009	0	166,009
	D3040 - Distribution Systems	Stairwell Pressurization Fans Renewal	130,339	0	130,339
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-W Renewal	336,927	0	336,927
	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices - Conduit Renewal	450,070	0	450,070
	B2030 - Exterior Doors	Exterior Doors - Pair - Hollow Metal Renewal	19,300	0	19,300
	D3040 - Distribution Systems	HVAC Ductwork - Supply - VAV Renewal	3,099,639	0	3,099,639
	G4021 - Fixtures and Transformers	Lighting Fixtures - Site - HID - Bollards - Entrance Renewal	13,011	0	13,011
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Hot Water Renewal	1,807,548	0	1,807,548
	D2010 - Plumbing Fixtures	Restroom Fixtures - Shower - Individual Prefab Renewal	5,918	0	5,918
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	440,383	0	440,383
	D5012 - Low Tension Service and Dist.	Distribution System - Interior Distribution Transformers Renewal	201,428	0	201,428
	D3040 - Distribution Systems	HVAC Ductwork - Return Renewal	679,436	0	679,436
	D5012 - Low Tension Service and Dist.	Motor Control Center - MCC-1 - 600A, 480V, 3PH Renewal	103,525	0	103,525
	D5092 - Emergency Light and Power Systems	Emergency Electrical Distribution - ATS - 1200A, 480V, 3PH Renewal	85,079	0	85,079
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - T8 - General Overhead Renewal	763,673	0	763,673
	D20 - Plumbing	Sump Pumps Renewal	4,803	0	4,803
		<b>Subtotal for 2024</b>	<b>15,684,471</b>	<b>0</b>	<b>15,684,471</b>
2025	D3050 - Terminal and Package Units	Split System AC - 3 Ton Renewal	8,256	0	8,256
	D4012 - Sprinkler Pumping Equipment	Fire Pump - Electric - 125 HP Renewal	196,878	0	196,878
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - Master Renewal	45,118	0	45,118
	D5038 - Security and Detection Systems	Security System - Video Intercom System - Freight Elevator Renewal	8,139	0	8,139
	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System Renewal	10,966	0	10,966
		<b>Subtotal for 2025</b>	<b>269,357</b>	<b>0</b>	<b>269,357</b>
2027	D5038 - Security and Detection Systems	Security System - Access Control System Renewal	243,350	0	243,350
	C3020 - Floor Finishes	Painted Finish or Sealer on Concrete Renewal	11,354	0	11,354
	D2020 - Domestic Water Distribution	Water Heater - Elec - Comm - 120 Gal Renewal	38,337	0	38,337
	D5038 - Security and Detection Systems	Security System - CCTV Renewal	245,402	0	245,402
		<b>Subtotal for 2027</b>	<b>538,442</b>	<b>0</b>	<b>538,442</b>
2028	B2020 - Exterior Windows	Aluminum Windows Renewal	3,312,351	0	3,312,351



# Requirement Forecast Report

## By Name

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2028	G2030 - Pedestrian Paving	Pedestrian Pavement - Brick Pavers Renewal	129,543	0	129,543
	D1095 - Chutes	Chute - 11 Stories - Abandon Renewal	4,415	0	4,415
	D3040 - Distribution Systems	HVAC Pump - Chilled Water - Base-Mounted - 40 HP Renewal	125,425	0	125,425
	D2040 - Rain Water Drainage	Roof Drainage - Gravity Renewal	669,559	0	669,559
	D2030 - Sanitary Waste	Sanitary Waste - Gravity Discharge Renewal	859,772	0	859,772
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Renewal	41,906	0	41,906
	C3020 - Floor Finishes	VCT - Older Renewal	8,842	0	8,842
	B2010 - Exterior Walls	Exterior Closure - Corrugated Metal Panels Renewal	72,991	0	72,991
	D3040 - Distribution Systems	HVAC Pump - Hot Water - Base-Mounted - 20 HP Renewal	89,652	0	89,652
	C3030 - Ceiling Finishes	ACT System Renewal	2,477,644	0	2,477,644
<b>Subtotal for 2028</b>			<b>7,792,101</b>	<b>0</b>	<b>7,792,101</b>
2029	C1020 - Interior Doors	Interior Doors - Aluminum Storefront Renewal	169,260	0	169,260
	B2030 - Exterior Doors	Exterior Doors - Pair - Aluminum Storefront Renewal	71,885	0	71,885
	B2030 - Exterior Doors	Exterior Doors - Single - Hollow Metal Renewal	56,759	0	56,759
	B2030 - Exterior Doors	Exterior Doors - Single - Aluminum Storefront Renewal	22,414	0	22,414
	C3020 - Floor Finishes	Ceramic Floor Tile Renewal	202,521	0	202,521
	C1020 - Interior Doors	Interior Doors - Hollow Metal Renewal	154,926	0	154,926
	D2020 - Domestic Water Distribution	Pressure Booster Pump - Triplex 7.5 HP Renewal	140,878	0	140,878
<b>Subtotal for 2029</b>			<b>818,643</b>	<b>0</b>	<b>818,643</b>
2030	C1030 - Fittings	Restroom Accessories Renewal	261,667	0	261,667
	B3010 - Roof Coverings	Inverted Roof Membrane Assembly (IRMA) w/ Pavers Renewal	1,151,910	0	1,151,910
	C3010 - Wall Finishes	Painted Finish Renewal	148,942	0	148,942
	B2030 - Exterior Doors	Automatic Openers - Pair - Exterior Renewal	55,821	0	55,821
	B2010 - Exterior Walls	Exterior Coatings - Painted Finish Renewal	6,545	0	6,545
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	1,250,561	0	1,250,561
	D5039 - Local Area Networks	LAN & VoIP System Renewal	1,101,436	0	1,101,436
	B2013 - Exterior Louvers, Screens, and Fencing	Metal Screen Walls - Louvers Renewal	6,427,830	0	6,427,830
	C3020 - Floor Finishes	VCT - Newer Renewal	29,076	0	29,076
	C1020 - Interior Doors	Automatic Openers - Pair - Interior Renewal	279,106	0	279,106
	C1020 - Interior Doors	Automatic Openers - Single - Interior Renewal	124,845	0	124,845
<b>Subtotal for 2030</b>			<b>10,837,740</b>	<b>0</b>	<b>10,837,740</b>
2031	C3011 - Wall Finishes to Inside Exterior Walls	Gypsum Drywall - Inside Face of Exterior Walls Renewal	31,073	0	31,073
	C3020 - Floor Finishes	Quarry Tile Renewal	126,182	0	126,182
<b>Subtotal for 2031</b>			<b>157,256</b>	<b>0</b>	<b>157,256</b>
2032	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.5 Renewal	47,993	0	47,993
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.1 Renewal	47,993	0	47,993
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.4 Renewal	52,259	0	52,259
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.2 Renewal	47,993	0	47,993
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Cab Finishes - Elevator No.3 Renewal	47,993	0	47,993
	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	117,801	0	117,801
<b>Subtotal for 2032</b>			<b>362,030</b>	<b>0</b>	<b>362,030</b>
2034	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Zoned Renewal	135,987	0	135,987



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2034	D5033 - Telephone Systems	Telephone System Renewal	906,793	0	906,793
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	2,799	0	2,799
	D5022 - Lighting Equipment	Lighting Control System - Relay Renewal	145,142	0	145,142
		<b>Subtotal for 2034</b>	<b>1,190,720</b>	<b>0</b>	<b>1,190,720</b>
2035	D2023 - Domestic Water Supply Equipment	Non-Potable Fire Water Tank - Concrete - 25,000 Gallons Renewal	108,063	0	108,063
	D5038 - Security and Detection Systems	Security System - Video Intercom System - Freight Elevator Renewal	12,883	0	12,883
		<b>Subtotal for 2035</b>	<b>120,946</b>	<b>0</b>	<b>120,946</b>
2036	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	53,455	0	53,455
	C3020 - Floor Finishes	Carpeting - Tile - Older Renewal	1,801,021	0	1,801,021
	D20 - Plumbing	Sump Pumps Renewal	8,334	0	8,334
		<b>Subtotal for 2036</b>	<b>1,862,810</b>	<b>0</b>	<b>1,862,810</b>
2037	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.1 Renewal	49,953	0	49,953
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.4 Renewal	90,968	0	90,968
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.3 Renewal	49,953	0	49,953
	D1011 - Passenger Elevators	Traction Geared Passenger Elevator - Control System - No.5 Renewal	49,953	0	49,953
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - LED - Wall Packs Renewal	7,698	0	7,698
	D5038 - Security and Detection Systems	Security System - CCTV Renewal	388,458	0	388,458
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	1,105,261	0	1,105,261
	D5038 - Security and Detection Systems	Security System - Access Control System Renewal	385,210	0	385,210
		<b>Subtotal for 2037</b>	<b>2,177,409</b>	<b>0</b>	<b>2,177,409</b>
2038	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	132,006	0	132,006
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	26,727	0	26,727
		<b>Subtotal for 2038</b>	<b>158,733</b>	<b>0</b>	<b>158,733</b>
2039	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Zoned Renewal	781,617	0	781,617
		<b>Subtotal for 2039</b>	<b>781,617</b>	<b>0</b>	<b>781,617</b>
2040	C1030 - Fittings	Toilet Partitions - Metal Renewal	337,148	0	337,148
	C3010 - Wall Finishes	Ceramic Wall Tile Renewal	146,501	0	146,501
	D3050 - Terminal and Package Units	Split System AC - 3 Ton Renewal	16,442	0	16,442
	D4090 - Other Fire Protection Systems	Fire Suppression System - FM200 System Renewal	21,841	0	21,841
		<b>Subtotal for 2040</b>	<b>521,932</b>	<b>0</b>	<b>521,932</b>
		<b>Total</b>	<b>46,037,708</b>	<b>140,530</b>	<b>46,178,238</b>



# Requirement Forecast Report

## By Name

Agency: State of Idaho

Asset: State Library

Campus: Capitol Mall

Asset Number: 10

Report is grouped by Year

Currency: USD

Address 1	325 W. State	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

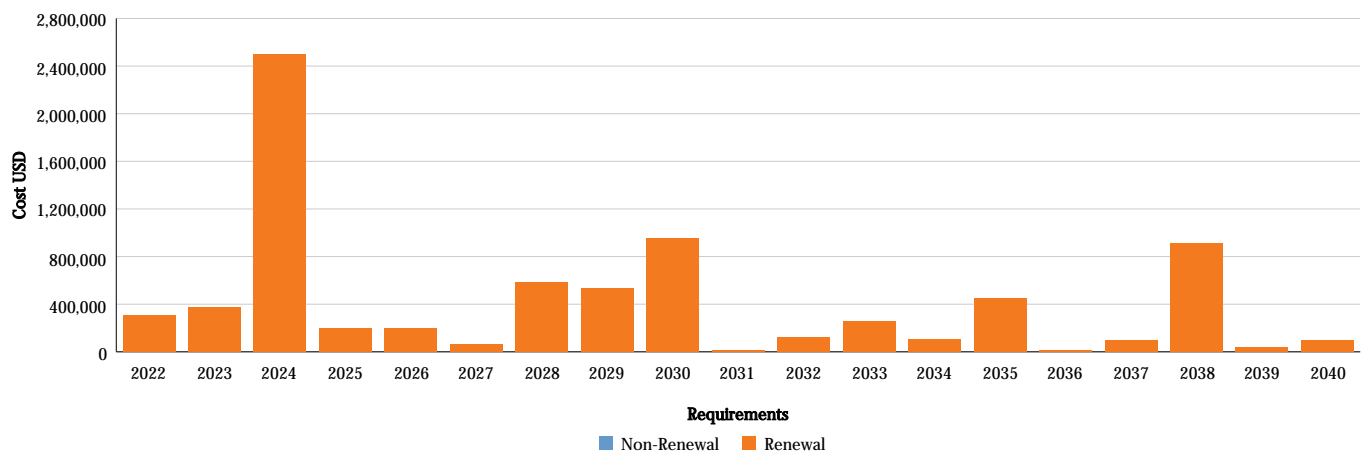
Current Replacement Value

12,825,154

Size

36,309 SF

### Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2022	310,418	0	310,418
2023	376,123	0	376,123
2024	2,496,526	0	2,496,526
2025	199,720	0	199,720
2026	193,592	0	193,592
2027	64,442	0	64,442
2028	580,484	0	580,484
2029	531,508	0	531,508
2030	950,506	0	950,506
2031	16,646	0	16,646
2032	117,801	0	117,801
2033	254,824	0	254,824
2034	104,084	0	104,084
2035	448,573	0	448,573
2036	14,851	0	14,851



# Requirement Forecast Report

## By Name

Year	Renewal Requirements	Non-Renewal Requirements	Total
2037	93,023	0	93,023
2038	907,213	0	907,213
2039	34,966	0	34,966
2040	94,088	0	94,088
<b>Total</b>	<b>7,789,387</b>	<b>0</b>	<b>7,789,387</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2022	D3060 - Controls and Instrumentation	Pneumatic Controls Renewal	310,418	0	310,418
		<b>Subtotal for 2022</b>	<b>310,418</b>	<b>0</b>	<b>310,418</b>
2023	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units Renewal	36,239	0	36,239
	D3068 - Building Automation Systems	Air Compressor - HVAC Controls - Reciprocating - Duplex 5 HP Renewal	78,743	0	78,743
	D1090 - Other Conveying Systems	Dumbwaiter - 2 Floors Renewal	32,350	0	32,350
	D2020 - Domestic Water Distribution	Domestic Water Distribution Piping Renewal	215,371	0	215,371
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	13,420	0	13,420
		<b>Subtotal for 2023</b>	<b>376,123</b>	<b>0</b>	<b>376,123</b>
2024	D3040 - Distribution Systems	HVAC Ductwork - Return Renewal	145,864	0	145,864
	D20 - Plumbing	Sump Pump Renewal	2,401	0	2,401
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-1 Renewal	195,496	0	195,496
	D3040 - Distribution Systems	HVAC Pumps - Chilled Water - 5 HP - Mechanical Room #1 Renewal	26,321	0	26,321
	D1010 - Elevators and Lifts	Hydraulic Passenger Elevator - 2 Story - 2500 lb Renewal	136,994	0	136,994
	D2040 - Rain Water Drainage	Roof Drainage - Gravity Renewal	119,619	0	119,619
	D2030 - Sanitary Waste	Sanitary Waste - Gravity Discharge Renewal	153,602	0	153,602
	D5012 - Low Tension Service and Dist.	Switchboard - 400A, 480/277V, 3PH Renewal	42,596	0	42,596
	D3040 - Distribution Systems	Air Handling Unit - Indoor - CV - AHU-2 Renewal	195,496	0	195,496
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Sidewalk - 4-Ft. Wide Renewal	11,666	0	11,666
	D2020 - Domestic Water Distribution	Water Heater - Elec - 20 Gal Renewal	4,566	0	4,566
	D5012 - Low Tension Service and Dist.	Motor Control Center - No.1 - 600A, 480V, 3PH Renewal	80,099	0	80,099
	D3040 - Distribution Systems	HVAC Ductwork - Supply - Single Zone Renewal	243,106	0	243,106
	D3040 - Distribution Systems	HVAC Pump - Hot Water - 3 HP - Mechanical Room #1 Renewal	11,616	0	11,616
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Hot Water Renewal	194,025	0	194,025
	D3040 - Distribution Systems	Exhaust System - General Building and Restroom Renewal	94,921	0	94,921
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID Renewal	3,068	0	3,068
	D3050 - Terminal and Package Units	Split System AC - 2 Ton Renewal	7,293	0	7,293
	D3040 - Distribution Systems	HVAC Pumps - Chilled Water - 1.5 HP - Mechanical Room #2 Renewal	17,471	0	17,471
	D1010 - Elevators and Lifts	Hydraulic Freight Elevator - 2 Story - 2500 lb Renewal	217,133	0	217,133
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	194,025	0	194,025
	D2010 - Plumbing Fixtures	Sinks - Custodial/Utility Renewal	7,226	0	7,226
	D5033 - Telephone Systems	Telephone System Renewal	50,069	0	50,069
	D5092 - Emergency Light and Power Systems	Exit Signs - CFL Renewal	11,118	0	11,118



# Requirement Forecast Report

## *By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2024	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Fluorescent Renewal	142,274	0	142,274
	D3050 - Terminal and Package Units	Split System AC - 3 Ton Renewal	10,264	0	10,264
	D4010 - Sprinklers	Sprinkler System - Wet - Light Hazard Renewal	178,197	0	178,197
		<b>Subtotal for 2024</b>	<b>2,496,526</b>	<b>0</b>	<b>2,496,526</b>
2025	D5038 - Security and Detection Systems	Security System - Access Control System Renewal	95,316	0	95,316
	D5022 - Lighting Equipment	Lighting Control System - Contactor - Library Area Renewal	8,284	0	8,284
	D5038 - Security and Detection Systems	Security System - CCTV Renewal	96,120	0	96,120
		<b>Subtotal for 2025</b>	<b>199,720</b>	<b>0</b>	<b>199,720</b>
2026	D2020 - Domestic Water Distribution	Water Heater - Elec - 30 Gal Renewal	6,749	0	6,749
	C3030 - Ceiling Finishes	ACT System - Older Renewal	186,843	0	186,843
		<b>Subtotal for 2026</b>	<b>193,592</b>	<b>0</b>	<b>193,592</b>
2027	C3020 - Floor Finishes	Painted Finish or Sealer on Concrete Renewal	5,677	0	5,677
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	58,765	0	58,765
		<b>Subtotal for 2027</b>	<b>64,442</b>	<b>0</b>	<b>64,442</b>
2028	D3050 - Terminal and Package Units	Computer Room Cooling - DX w/Air Cooled Remote Condenser Renewal	79,402	0	79,402
	C3020 - Floor Finishes	VCT Renewal	26,525	0	26,525
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	72,642	0	72,642
	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Addressable Renewal	58,598	0	58,598
	C3020 - Floor Finishes	Carpeting - Broadloom Renewal	275,566	0	275,566
	B2010 - Exterior Walls	Exterior Sealants Renewal	67,751	0	67,751
		<b>Subtotal for 2028</b>	<b>580,484</b>	<b>0</b>	<b>580,484</b>
2029	G2040 - Site Development	Planter Walls - Concrete (2-Ft High) Renewal	34,722	0	34,722
	C3010 - Wall Finishes	Wood Wall Paneling Renewal	42,588	0	42,588
	C3030 - Ceiling Finishes	ACT System - Newer Renewal	415,055	0	415,055
	C1020 - Interior Doors	Interior Doors - Wood Renewal	39,144	0	39,144
		<b>Subtotal for 2029</b>	<b>531,508</b>	<b>0</b>	<b>531,508</b>
2030	D5039 - Local Area Networks	LAN System Renewal	155,453	0	155,453
	E1090 - Other Equipment	Access Fixed Ladders - Exterior Renewal	5,354	0	5,354
	C3010 - Wall Finishes	Painted Finish Renewal	21,934	0	21,934
	B2030 - Exterior Doors	Exterior Doors - Pair - Aluminum - Glazed Renewal	75,263	0	75,263
	C3020 - Floor Finishes	Vinyl Sheet Goods Renewal	17,701	0	17,701
	C1030 - Fittings	Restroom Accessories Renewal	73,023	0	73,023
	C3020 - Floor Finishes	Ceramic Floor Tile Renewal	193,865	0	193,865
	B2030 - Exterior Doors	Exterior Doors - Pair - Hollow Metal Renewal	25,423	0	25,423
	C1035 - Identifying Devices	Fittings - Signage Renewal	7,320	0	7,320
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops Renewal	375,168	0	375,168
		<b>Subtotal for 2030</b>	<b>950,506</b>	<b>0</b>	<b>950,506</b>
2031	D2020 - Domestic Water Distribution	Water Heater - Elec - 50 Gal Renewal	10,276	0	10,276
	C3011 - Wall Finishes to Inside Exterior Walls	Gypsum Drywall - Inside Face of Exterior Walls Renewal	6,370	0	6,370
		<b>Subtotal for 2031</b>	<b>16,646</b>	<b>0</b>	<b>16,646</b>
2032	D2020 - Domestic Water Distribution	Heat Exchanger - Plate & Frame - Geo-Thermal to Heating Hot Water Renewal	117,801	0	117,801
		<b>Subtotal for 2032</b>	<b>117,801</b>	<b>0</b>	<b>117,801</b>
2033	D5092 - Emergency Light and Power	Emergency Battery Pack Light Units Renewal	57,365	0	57,365



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2033	Systems				
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	197,459	0	197,459
		<b>Subtotal for 2033</b>	<b>254,824</b>	<b>0</b>	<b>254,824</b>
2034	D5092 - Emergency Light and Power Systems	Exit Signs - CFL Renewal	17,599	0	17,599
	D2020 - Domestic Water Distribution	Water Heater - Elec - 20 Gal Renewal	7,228	0	7,228
	D5033 - Telephone Systems	Telephone System Renewal	79,257	0	79,257
		<b>Subtotal for 2034</b>	<b>104,084</b>	<b>0</b>	<b>104,084</b>
2035	D5038 - Security and Detection Systems	Security System - Access Control System Renewal	150,880	0	150,880
	B2015 - Balcony Walls and Handrails	Exterior Railings - Steel Picket Renewal	84,168	0	84,168
	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	10,961	0	10,961
	B2016 - Exterior Soffits	Plaster Soffit System Renewal	35,071	0	35,071
	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	15,340	0	15,340
	D5038 - Security and Detection Systems	Security System - CCTV Renewal	152,153	0	152,153
		<b>Subtotal for 2035</b>	<b>448,573</b>	<b>0</b>	<b>448,573</b>
2036	D2020 - Domestic Water Distribution	Water Heater - Elec - 30 Gal Renewal	10,684	0	10,684
	D20 - Plumbing	Sump Pump Renewal	4,167	0	4,167
		<b>Subtotal for 2036</b>	<b>14,851</b>	<b>0</b>	<b>14,851</b>
2037	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	93,023	0	93,023
		<b>Subtotal for 2037</b>	<b>93,023</b>	<b>0</b>	<b>93,023</b>
2038	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices Renewal	470,169	0	470,169
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	26,727	0	26,727
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 480/277V & 208/120V, 3PH Renewal	327,819	0	327,819
	D5012 - Low Tension Service and Dist.	Distribution System - Interior Distribution Transformers Renewal	82,498	0	82,498
		<b>Subtotal for 2038</b>	<b>907,213</b>	<b>0</b>	<b>907,213</b>
2039	D3050 - Terminal and Package Units	Split System AC - 3 Ton Renewal	20,441	0	20,441
	D3050 - Terminal and Package Units	Split System AC - 2 Ton Renewal	14,525	0	14,525
		<b>Subtotal for 2039</b>	<b>34,966</b>	<b>0</b>	<b>34,966</b>
2040	C1030 - Fittings	Toilet Partitions - Metal Renewal	94,088	0	94,088
		<b>Subtotal for 2040</b>	<b>94,088</b>	<b>0</b>	<b>94,088</b>
		<b>Total</b>	<b>7,789,387</b>	<b>0</b>	<b>7,789,387</b>





# Requirement Forecast Report

## By Name

Agency: State of Idaho

Asset: Supreme Court

Campus: Capitol Mall

Asset Number: 11

Report is grouped by Year

Currency: USD

Address 1	451 W. State	Address 2	-
City	Boise	State/Province/Region	Idaho
Country	UNITED STATES OF AMERICA	ZIP	-

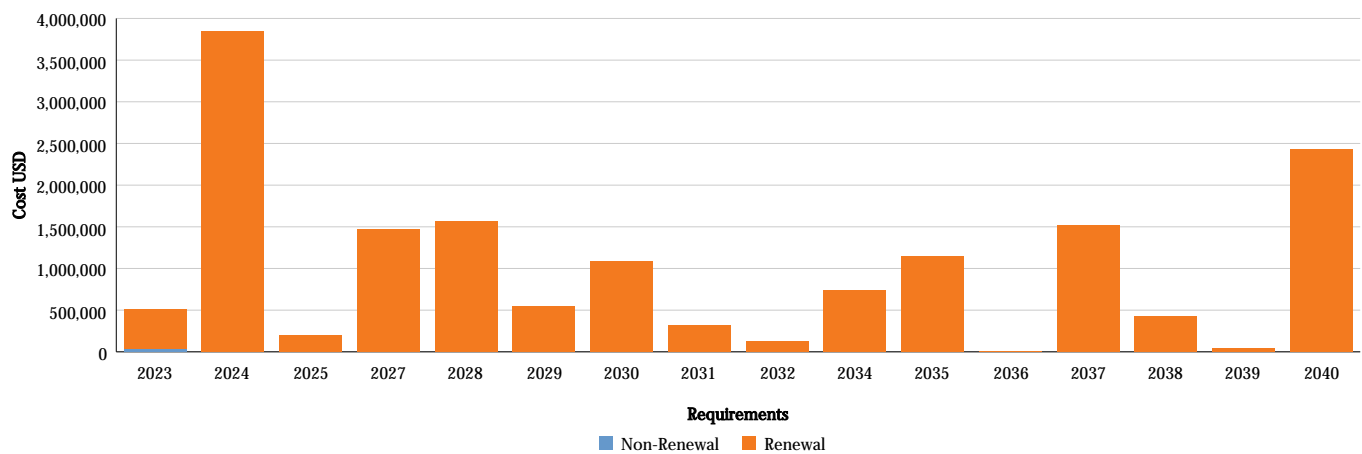
Current Replacement Value

20,242,317

Size

64,750 SF

### Summary of Funding Needed by Requirement Type and Year



Year	Renewal Requirements	Non-Renewal Requirements	Total
2023	468,905	35,665	504,570
2024	3,850,378	0	3,850,378
2025	194,059	0	194,059
2027	1,468,272	0	1,468,272
2028	1,571,650	0	1,571,650
2029	551,063	0	551,063
2030	1,080,832	0	1,080,832
2031	316,563	0	316,563
2032	125,573	0	125,573
2034	736,840	0	736,840
2035	1,143,755	0	1,143,755
2036	4,167	0	4,167
2037	1,523,864	0	1,523,864
2038	427,165	0	427,165
2039	40,713	0	40,713



# Requirement Forecast Report

## By Name

Year	Renewal Requirements	Non-Renewal Requirements	Total
2040	2,425,799	0	2,425,799
<b>Total</b>	<b>15,929,598</b>	<b>35,665</b>	<b>15,965,263</b>

## Detail of Funding Needed by Year

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2023	D5012 - Low Tension Service and Dist.	Electrical System - Lacking Arc Flash Labeling	0	22,978	22,978
	D5012 - Low Tension Service and Dist.	Electrical Room Door - Lacking Panic Hardware	0	6,210	6,210
	D5021 - Branch Wiring Devices	Branch Wiring System - Outlets Lacking GFCI Type Receptacles & Covers - Exterior	0	1,424	1,424
	D2020 - Domestic Water Distribution	Domestic Water Distribution Piping Renewal	384,072	0	384,072
	D1090 - Other Conveying Systems	Dumbwaiter - 3 Floors Renewal	39,574	0	39,574
	D3068 - Building Automation Systems	Air Compressor - HVAC Controls - Reciprocating - Simplex 3 HP Renewal	45,259	0	45,259
	D5021 - Branch Wiring Devices	Branch Wiring System - Lacking GFCI Receptacle at Grade HVAC Unit	0	5,054	5,054
		<b>Subtotal for 2023</b>	<b>468,905</b>	<b>35,665</b>	<b>504,570</b>
2024	G4023 - Wiring Conduits and Ductbanks	Site Lighting - Underground Circuitry - Globe Fixtures Renewal	15,727	0	15,727
	D5033 - Telephone Systems	Telephone System Renewal	219,314	0	219,314
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	1,768	0	1,768
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units - 2005 Renewal	33,832	0	33,832
	D3040 - Distribution Systems	HVAC Ductwork - Return Renewal	260,119	0	260,119
	D1010 - Elevators and Lifts	Hydraulic Passenger Elevator - 3 Story - 2500 lb Renewal	205,491	0	205,491
	D1010 - Elevators and Lifts	Hydraulic Passenger Elevator - 3 Story - 3500 lb Renewal	219,185	0	219,185
	D5012 - Low Tension Service and Dist.	Motor Control Center - Penthouse - 600A, 480V, 3PH Renewal	55,911	0	55,911
	D5038 - Security and Detection Systems	Security System - Access Control System - 1998 Renewal	81,174	0	81,174
	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton Renewal	6,391	0	6,391
	D2010 - Plumbing Fixtures	Water Coolers - Wall-Mounted Renewal	23,298	0	23,298
	D5012 - Low Tension Service and Dist.	Distribution System - Interior Distribution Transformers Renewal	13,454	0	13,454
	D2010 - Plumbing Fixtures	Sinks - Custodial/Utility Renewal	34,239	0	34,239
	G4022 - Poles	Site Lighting - Concrete Pole/Base for Globe Fixture - Sidewalks Renewal	39,781	0	39,781
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Floodlights - Wall Renewal	22,499	0	22,499
	D2030 - Sanitary Waste	Sanitary Waste - Gravity Discharge Renewal	273,918	0	273,918
	G4021 - Fixtures and Transformers	Site Lighting - Globe Fixture - Sidewalks Renewal	27,028	0	27,028
	G4023 - Wiring Conduits and Ductbanks	Site Lighting - Underground Circuitry - Building to Globe Fixtures Renewal	9,152	0	9,152
	D4020 - Standpipes	Standpipe System - Dry Renewal	34,096	0	34,096
	D5022 - Lighting Equipment	Lighting Control System - Contactor - Building Outside Lighting Renewal	16,491	0	16,491
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Soffits Renewal	22,499	0	22,499
	D2040 - Rain Water Drainage	Roof Drainage - Gravity Renewal	213,318	0	213,318
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - HID - Steps Renewal	17,015	0	17,015
	D5022 - Lighting Equipment	Lighting Control System - Dimming - Court Room Renewal	37,628	0	37,628
	G4024 - Site Lighting Controls	Lighting Control System - Contactor - Sidewalk Lighting Renewal	8,245	0	8,245
	D5092 - Emergency Light and Power Systems	Exit Signs - CFL Renewal	9,913	0	9,913
	D5012 - Low Tension Service and Dist.	Distribution Equipment - Panelboards and Feeders - 480/277V & 208/120V, 3PH - 1970 Renewal	159,481	0	159,481



# Requirement Forecast Report

## *By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2024	D20 - Plumbing	Sump Pump Renewal	2,401	0	2,401
	D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices - 1970 Renewal	145,462	0	145,462
	D5012 - Low Tension Service and Dist.	Secondary Distribution Switchboard - Old Main - 2000A, 208Y/120V, 3PH Renewal	215,748	0	215,748
	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	14,051	0	14,051
	D5021 - Branch Wiring Devices	Branch Wiring - Heat Tracing System - Ramps & Steps Renewal	31,393	0	31,393
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - T8 - General Overhead - 1970 Renewal	111,815	0	111,815
	D3040 - Distribution Systems	HVAC Ductwork - Supply - VAV Renewal	1,186,685	0	1,186,685
	D5038 - Security and Detection Systems	Security System - CCTV - 1998 Renewal	81,858	0	81,858
<b>Subtotal for 2024</b>			<b>3,850,378</b>	<b>0</b>	<b>3,850,378</b>
2025	B2010 - Exterior Walls	Exterior Sealants Renewal	190,714	0	190,714
	D3050 - Terminal and Package Units	Split System AC - 3/4 Ton Renewal	3,346	0	3,346
<b>Subtotal for 2025</b>			<b>194,059</b>	<b>0</b>	<b>194,059</b>
2027	C3030 - Ceiling Finishes	ACT System - Floors 1 & 2 - Older Renewal	220,866	0	220,866
	D5022 - Lighting Equipment	Lighting Control System - Relay - Basement Renewal	168,153	0	168,153
	D5038 - Security and Detection Systems	Security System - Access Control System - 2017 Renewal	93,165	0	93,165
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units and Ballasts - 2017 Renewal	32,472	0	32,472
	D5038 - Security and Detection Systems	Security System - CCTV - 2017 Renewal	93,951	0	93,951
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	104,797	0	104,797
	B3010 - Roof Coverings	Modified Bitumen, Siplast Renewal	754,868	0	754,868
<b>Subtotal for 2027</b>			<b>1,468,272</b>	<b>0</b>	<b>1,468,272</b>
2028	C1035 - Identifying Devices	Fittings - Signage Renewal	35,615	0	35,615
	C1020 - Interior Doors	Interior Doors - Wood - Older Renewal	274,171	0	274,171
	C1020 - Interior Doors	Interior Doors - Hollow Metal Renewal	11,098	0	11,098
	B2030 - Exterior Doors	Exterior Doors - Pair - Hollow Metal Renewal	23,192	0	23,192
	C1010 - Partitions	Windows/Storefront Partitions - Metal - Floor 1 & 2 Renewal	416,589	0	416,589
	C3020 - Floor Finishes	VCT Renewal	56,586	0	56,586
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Sidewalk - 4-Ft. Wide Renewal	21,308	0	21,308
	D2010 - Plumbing Fixtures	Restroom Fixtures Renewal	236,056	0	236,056
	B2020 - Exterior Windows	Aluminum Windows Renewal	473,193	0	473,193
	B2010 - Exterior Walls	Exterior Closure - Stucco Finish - Mechanical Penthouse Renewal	23,842	0	23,842
	<b>Subtotal for 2028</b>		<b>1,571,650</b>	<b>0</b>	<b>1,571,650</b>
2029	C1020 - Interior Doors	Interior Doors - Glazed Wood Renewal	6,676	0	6,676
	B2030 - Exterior Doors	Exterior Doors - Single - Aluminum - Glazed Renewal	33,621	0	33,621
	D2010 - Plumbing Fixtures	Sinks - Stainless Steel Renewal	20,376	0	20,376
	D2010 - Plumbing Fixtures	Emergency Eyewash Renewal	8,233	0	8,233
	B1014 - Ramps	Exterior Ramp - Accessible - Concrete Renewal	59,464	0	59,464
	G2040 - Site Development	Planter Walls - Concrete (4-Ft High) Renewal	124,998	0	124,998
	B2030 - Exterior Doors	Exterior Doors - Pair - All-Glass - Main Entrance Renewal	155,546	0	155,546
	C1020 - Interior Doors	Interior Doors - All-Glass Renewal	54,084	0	54,084
	G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete Plaza Renewal	88,065	0	88,065
	<b>Subtotal for 2029</b>		<b>551,063</b>	<b>0</b>	<b>551,063</b>
2030	D5039 - Local Area Networks	LAN & VoIP System Renewal	421,681	0	421,681
	B2010 - Exterior Walls	Exterior Coatings - Painted Finish Renewal	8,181	0	8,181



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
2030	C3020 - Floor Finishes	Vinyl Sheet Goods Renewal	115,059	0	115,059
	C3010 - Wall Finishes	Wood Wall Paneling - Courtroom & Lobby Renewal	89,178	0	89,178
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops - Floor 1 & 2 Renewal	140,688	0	140,688
	C3020 - Floor Finishes	Carpeting - Broadloom - Courtroom Renewal	37,400	0	37,400
	C3020 - Floor Finishes	Ceramic Floor Tile Renewal	212,040	0	212,040
	C3010 - Wall Finishes	Painted Finish Renewal	56,605	0	56,605
<b>Subtotal for 2030</b>			<b>1,080,832</b>	<b>0</b>	<b>1,080,832</b>
2031	D5022 - Lighting Equipment	Lighting Fixtures - Interior - T8 - General Overhead - 2011 Renewal	152,957	0	152,957
	D2020 - Domestic Water Distribution	Water Heater - Elec - Comm - 120 Gal Renewal	46,069	0	46,069
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Decorative - 2nd Floor Courtroom Renewal	117,538	0	117,538
<b>Subtotal for 2031</b>			<b>316,563</b>	<b>0</b>	<b>316,563</b>
2032	D5037 - Fire Alarm Systems	Fire Alarm System - Head-End Control Equipment - Addressable Renewal	125,573	0	125,573
<b>Subtotal for 2032</b>			<b>125,573</b>	<b>0</b>	<b>125,573</b>
2034	D5033 - Telephone Systems	Telephone System Renewal	347,162	0	347,162
	D5092 - Emergency Light and Power Systems	Exit Signs - CFL Renewal	15,692	0	15,692
	D5038 - Security and Detection Systems	Security System - CCTV - 1998 Renewal	129,577	0	129,577
	D5038 - Security and Detection Systems	Security System - Access Control System - 1998 Renewal	128,494	0	128,494
	D5022 - Lighting Equipment	Lighting Control System - Dimming - Court Room Renewal	59,563	0	59,563
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units - 2005 Renewal	53,554	0	53,554
	D2020 - Domestic Water Distribution	Water Heater - Elec - Point of Use Renewal	2,799	0	2,799
<b>Subtotal for 2034</b>			<b>736,840</b>	<b>0</b>	<b>736,840</b>
2035	C3020 - Floor Finishes	Vinyl Plank Flooring Renewal	16,792	0	16,792
	D3060 - Controls and Instrumentation	DDC/Pneumatic Controls - Hybrid Renewal	1,058,656	0	1,058,656
	D3050 - Terminal and Package Units	Unit and Cabinet Unit Heaters - Hot Water Renewal	48,760	0	48,760
	D4030 - Fire Protection Specialties	Fire Extinguishers - Dry Chem w/Cabinet Renewal	19,546	0	19,546
<b>Subtotal for 2035</b>			<b>1,143,755</b>	<b>0</b>	<b>1,143,755</b>
2036	D20 - Plumbing	Sump Pump Renewal	4,167	0	4,167
<b>Subtotal for 2036</b>			<b>4,167</b>	<b>0</b>	<b>4,167</b>
2037	D5022 - Lighting Equipment	Lighting Fixtures - Interior - LED - General Overhead - 2017 Renewal	170,203	0	170,203
	D5022 - Lighting Equipment	Lighting Fixtures - Exterior - LED - Wall Washers Renewal	48,115	0	48,115
	D5092 - Emergency Light and Power Systems	Emergency Battery Pack Light Units and Ballasts - 2017 Renewal	51,401	0	51,401
	D5037 - Fire Alarm Systems	Fire Alarm System - Raceway and Wiring Renewal	423,145	0	423,145
	D5038 - Security and Detection Systems	Security System - CCTV - 2017 Renewal	148,720	0	148,720
	D5038 - Security and Detection Systems	Security System - Access Control System - 2017 Renewal	147,476	0	147,476
	D5037 - Fire Alarm Systems	Fire Alarm System - Initiating & Alarm Devices - Addressable Renewal	165,888	0	165,888
	D5022 - Lighting Equipment	Lighting Control System - Relay - Basement Renewal	266,177	0	266,177
	D5092 - Emergency Light and Power Systems	Exit Signs - LED Renewal	57,047	0	57,047
	D5022 - Lighting Equipment	Lighting Fixtures - Interior - Decorative - Basement Office Area Renewal	45,693	0	45,693
<b>Subtotal for 2037</b>			<b>1,523,864</b>	<b>0</b>	<b>1,523,864</b>
2038	C1030 - Fittings	Toilet Partitions - Plastic Laminate Renewal	293,521	0	293,521
	C3010 - Wall Finishes	Ceramic Wall Tile Renewal	133,643	0	133,643



# Requirement Forecast Report

*By Name*

Year	System	Requirement Name	Renewal	Non-Renewal	Total
Subtotal for 2038			427,165	0	427,165
2039	D2030 - Sanitary Waste	Sewage Ejector Pumps - Duplex Renewal	27,984	0	27,984
	D3050 - Terminal and Package Units	Split System AC - 1.5 Ton Renewal	12,729	0	12,729
Subtotal for 2039			40,713	0	40,713
2040	D3040 - Distribution Systems	Air Handling Unit - Indoor - VAV - Courtroom Renewal	150,892	0	150,892
	C3030 - Ceiling Finishes	ACT System - Floors 1 & 2 - Newer Renewal	687,890	0	687,890
	D3050 - Terminal and Package Units	Split System AC - 3/4 Ton Renewal	6,664	0	6,664
	C3020 - Floor Finishes	Carpeting - Tile - Floor 1 & 2 Renewal	593,620	0	593,620
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Chilled Water Renewal	480,994	0	480,994
	E2012 - Fixed Casework	Fixed Casework - Plastic Laminate Countertops - Basement Renewal	24,745	0	24,745
	D3040 - Distribution Systems	Piping Distribution - 2-Pipe - Hot Water Renewal	480,994	0	480,994
Subtotal for 2040			2,425,799	0	2,425,799
Total			15,929,598	35,665	15,965,263

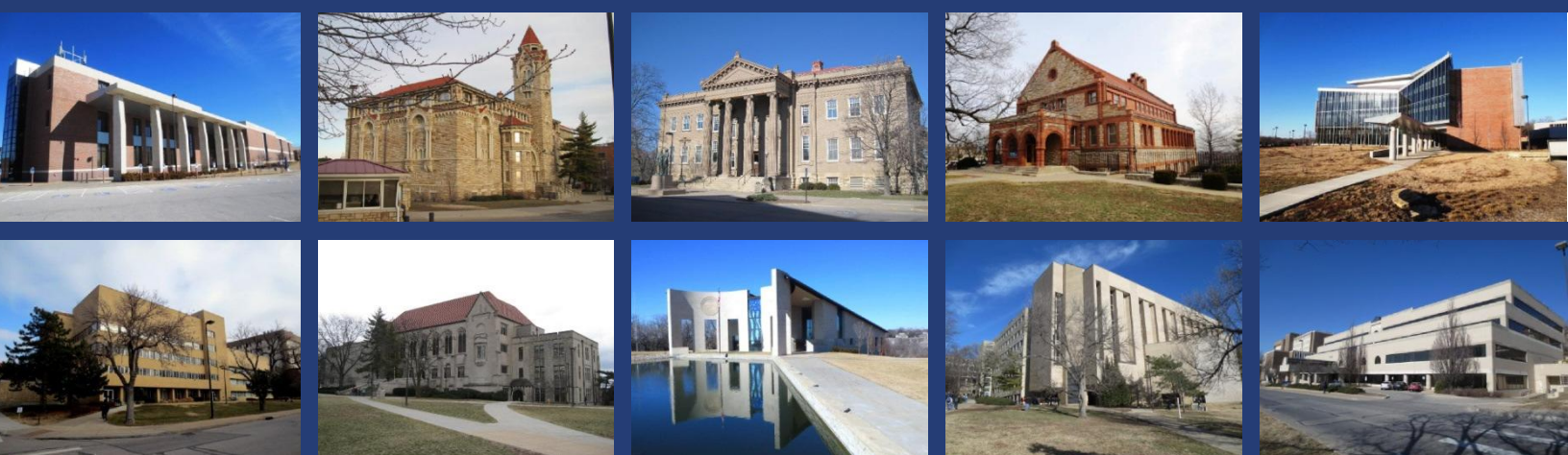
## **Appendix D: Gordian Executive Summary Report Example**

# Executive Summary Report

## Major University Anytown, USA



### *2016 Asset Condition Assessments* *Building and Infrastructure Assets* *Located on Two University Campuses*



Submitted by:

**VFA / Accruent**

Susan Buchanan, Project Director

George Lovely, Project Manager

**December 2016**





## Major University

Anytown, USA

### Assessment Summary

#### Building Assets Assessed in 2016

Assets Assessed:	81 Buildings
Total Asset Area:	6,416,000 Sq. Ft.
Replacement Value:	\$1,545,100,000
Average Asset Age:	55 Years
Age Range:	5 to 126 Years

Assessed Systems	3,296
Assessed System Value	\$296,127,000
Modeled Systems	238
Modeled System Value	\$1,183,525,000

Portfolio-wide FCI:	(Good) .08 FCI
Average Asset FCI:	(Fair) .12 FCI
FCI Range:	.00 to 1.0 FCI

Condition Range: “Excellent” to “Very Poor”

#### Infrastructure Assets Assessed in 2016

Assets Assessed:	33 Infrastructure Assets
Systems Assessed:	480 Systems
Replacement Value:	\$149,147,000

### ASSESSMENT SCOPE / METHODOLOGY

In the spring and summer of 2016 VFA, Inc. was engaged by the University to conduct a facility condition assessment on 81 buildings (Assets) located on the Western and Eastern Park campuses.

At the University’s direction, the scope of assessment work varied depending on the Asset. Only 3 Assets were given a complete facility assessment, while exterior envelopes, major mechanical Systems and ADA compliance were checked on 71 Assets. Six other Assets were just checked for ADA compliance.

Available building documents were reviewed, and assessment teams performed a walk-through of the subject buildings to visually evaluate each of the component “Systems” scheduled to be assessed.

Each of the component Architectural, Mechanical, and/or Electrical ‘Systems’ included in the assessment were visually inspected, their apparent age, condition, and remaining useful life were identified, and their value estimated.

“Requirements”, i.e., improvements needed to address observed life safety concerns, significant building code issues, and major near term (5 year) repairs, not requiring complete replacement of Systems were identified. For Systems with fewer than six



**Figure 1: Aerial View of the West Campus, Looking East**

years of Observed useful life remaining, renewal Requirements calling for the full replacement of the System were automatically generated by the VFA.facility software.

In addition to building assessments, the nature and scope of campus Infrastructure Systems were also identified, documentation reviewed, above ground elements visually assessed.

Following the field survey, the assembled Asset information was entered into the University’s VFA.facility database, providing a record of the observed Asset conditions, and



for each of the Assets' Systems that were assessed, database records were created containing the observed and collected information.

Building Systems that were not included in the field assessment scope were 'Modeled' to provide a value for the difference between the sum of the assessed Systems' values and the building's replacement value established by the Board of Regents. Such Systems are identified in the database with the prefix "MBOR", and represent approximately 75% of the partially assessed Assets' replacement value.

"Requirements", improvements needed to address an Asset's observed life safety concerns, significant building code issues, or major near term (5 year) repairs identified in the field, were created in the database, while the age-based System renewals calling for the complete replacement of Systems were automatically generated for those with fewer than 6 years of observed life remaining.

Each Requirement includes a brief description of the observed deficiency, a photo, a database link to the appropriate building System, and a priority (1-4) denoting when the corrective action should be performed. Each Requirement also includes a linked corrective "Action", a brief description of the proposed improvement's scope, and projected costs for labor and materials, linked to an R.S. Means database that annually updates the costing based on current market information.

## ASSESSMENT FINDINGS - FCI

Except for the three Assets that were fully assessed, the methodology used in assessing the majority of MU Assets limits the conclusions that can be drawn regarding their overall condition. For the three Assets that were fully assessed however, the Student Union, the Memorial Union, and the Acme Recreation Center, we can make a judgment of their overall conditions by comparing their value to the costs projected for returning them to 'like new' condition.

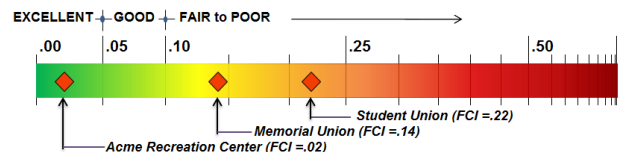
To establish a standard measure of each of the three Assets' conditions, the data assembled in VFA.facility was used to generate a Facility Condition Index, or FCI. This is done by taking their current replacement value (CRV), generated by summing the values of their component building Systems, and comparing it to the cost of projected repairs and renewals over the next five years.

The FCI is an internationally recognized standard for assessing building condition, and as shown in *Figure 2* below, is simply the ratio of the cost of needed improvements and renewals identified over the next 5 years, the Requirements, divided by the Asset's calculated replacement value (CRV), expressed as a decimal fraction of one.

$$\text{FCI} = \frac{\text{REQUIREMENT COST OVER THE NEXT 5 YEARS}}{\text{ASSET'S CURRENT REPLACEMENT VALUE}}$$

**Figure 2: 5-year FCI Formula**

FCI's are calculated using just the highest priority items and the most critical needs, the Requirements identified as necessary in the next 5 years, and thus, the lower an Asset's FCI value, the better the building's current overall condition is judged to be.



**Figure 2: APPA FCI Scale – Three Fully Assessed Assets**

The FCI values for the three Assets fully assessed in 2016 are shown on the APPA FCI scale in *Figure 2* above and range from the Acme Recreation Center in 'Excellent' condition with an FCI of .02, to the Memorial Union in 'Good to Fair' condition at .14, and the Student Union in 'Fair to Poor' condition at and FCI of .22. These are values that represent the projected overall condition of the three Assets five years from now, assuming that no capital improvements are made in that time. (See Appendix A)

## ASSESSMENT FINDINGS – Partial FCIs

Seventy-one MU Assets were partially assessed, with assessment fieldwork limited to ADA compliance items, exterior envelope Systems, and major electrical and mechanical equipment. Trying to use the data to establish 'standard' APPA type FCIs, as was done for the three fully assessed Assets, would lead to artificially low FCI values, since, while the 'modeled' Systems were assigned a value, they were not assessed for age or condition, and no costs were established for any necessary repairs or renewals.

The same scope of Systems were assessed for all 71 Assets, however, so we can make some judgment about their *relative* conditions and when we compare them, we see the Assets' *partial* FCIs range from a low of 0.0 for seven Assets, meaning no repairs or renewals were identified for their assessed Systems, to eight Assets with partial FCIs over .10, indicating that repairs and renewals for just the subset of the Asset's Systems that were assessed already exceeds 10% of the Board of Regents total assigned value for the Asset.

## ASSESSMENT FINDINGS - SCI

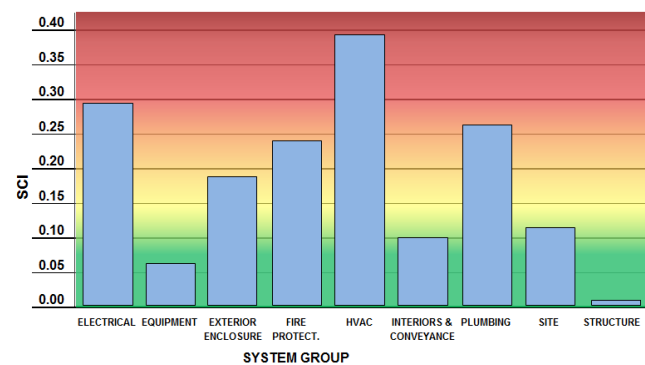
Given the partial nature of the assessments done for the majority of the MU Assets, a more accurate sense of what was observed can be seen by looking at their SCIs. Similar to the FCI, the SCI is the '**System Condition Index**' and provides a measure of the relative condition of an Asset's, or group of Assets', assessed building Systems. The SCI is defined as the ratio of the total cost of capital improvements needed to upgrade a building System to 'like new' condition, divided by the calculated replacement value of that System.

$$\text{SCI} = \frac{\text{System 5-year Requirement Costs}}{\text{System Current Replacement Value}}$$

Like the FCI, the lower the SCI value, the better the System's overall condition is assumed to be.

Utilizing the reporting capabilities in VFA.facility, the condition and costs for Systems, and groups of Systems, may be evaluated in a variety of ways, including by individual Asset, groups of Assets, or a campus-wide 'roll-up'.

Figure 3, below, displays the 5-Year SCIs for the major Systems Groups (>\$1million) in the 71 Assets partially assessed in 2016, and



**Figure 3: Major System Group SCIs**

highest on the list are, not surprisingly, the Systems that include major pieces of mechanical equipment, as many were found to be beyond their useful lives. Likewise, Major Plumbing and Electrical System components were also aged, though their typically longer lifetimes means their SCIs were not as high as those of HVAC Systems.

## REQUIREMENT COSTS

With the condition data contained in the database, and using the reporting functions within VFA.facility, we can begin assess capital funding needs in variety of ways, recognizing the scope of the assessment limits the conclusion we can draw from it.

## The Three Fully Assessed Assets

When we look at the three Assets that were fully assessed, the two Unions and Acme, we can state that the projected costs for all observed repair and renewals over the next five years are approximately \$6.98 million,

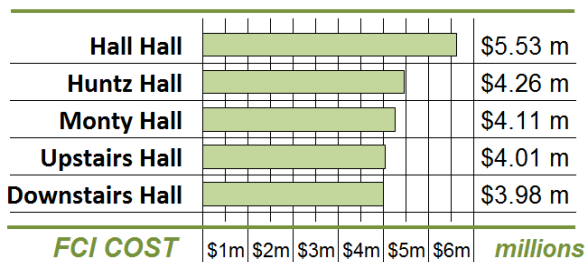
with no adjustment for inflation. The bulk of those costs, \$4.96 million, will be required to upgrade the Memorial Union, while Student Union is expected to require some \$1.6 million, and Acme just over \$408,000.

Given the partial scope of the assessments for the other Assets, however, we only have limited information about their Requirement costs over the next five years, information limited to the Systems that were actually assessed in the field, and thus our observations are more limited.

### Seventy-One Partially Assessed Assets

Looking at the 71 Assets that were partially assessed, recognizing that we are only considering costs for the repair and renewals of the major electrical and mechanical components, building envelopes, life safety, and ADA issues, we can then see which Assets will generate the highest costs over the next five years for those Systems.

When the 71 Assets are ranked by the highest anticipated 5-year Requirement costs for the assessed Systems, we see (*Figure 4*, below), that the Asset with highest projected partial cost over the next five years is Hall Hall at



**Figure 4:** Ancillary Assets by 5-Year FCI Cost

just over \$5.5 million. Combined, the top five Assets, only 7% of the 71 Assets partially assessed, and less than 20% of their total building area, are projected to require fully one third of the \$65.3 million in partial repair and renewal costs identified over the next five years. The 20 Assets with the lowest observed 5-year costs meanwhile, cover some 8% of the building areas partially assessed, yet generate only 1% of the projected costs. (See Appendix B)

### Seven Modeled Assets

There are seven Assets that were only assessed for issues related to accessibility (ADA) and had all of their component Systems 'modeled' based on standard assumptions about the percentage of building costs typically represented by the various building Systems as a portion of their MBOR replacement values. Systems were given standard System lifetimes based on their type, and each Systems age was based on the Asset's construction date.

The seven modeled Assets have FCIs ranging from .11 to 1.0, with a total generated 5-year capital costs, based strictly on the modeled Systems ages, of \$27.6 million. The cost of the identified ADA improvements meanwhile, Requirements that were identified based on actually field assessments, is \$324,000, or a little more than 1% of the total FCI costs.

### FUNDING NEEDS

With the new condition data contained in the database, and using the funding module within VFA.facility, we can assess short term funding needs for the MU Assets assessed in 2016.

Since most Asset were only partially assessed, and many of their Systems only modeled, using the outputs from the VFA.facility Funding Module would not yield reliable FCI based results, thus the example below focuses on the three Assets that were fully assessed, the Student Union, the Memorial Union, and the Acme Recreation Center.

### Three Fully Assessed Assets: 10-Year Funding Scenarios in VFA.facility

Using the funding module within VFA.facility MU can examine various funding strategies, analyze their fiscal implications over various time periods, and project the impact of deferred maintenance, on individual Assets,

groups of Assets, or, once the all Assets have been fully assessed, across the entire portfolio. Values for a range of parameters, either assumed or measured, and different time ranges, can be entered into the funding module for analysis purposes, and the cost implications, and probable impact on facility conditions over time, assessed.

To illustrate just a few examples of the wide range of condition impacts and capital costs various budget strategies would produce, Figure 5 below, depicts the results of three potential funding scenarios, applied to the three Assets fully assessed in 2016, projected out over the next 10 years. (See Appendix C)

The three Scenarios shown assume that all the identified Requirements, both those needed and recommended, as well as renewals arising in later years, will be addressed. An industry standard 2% annual deterioration is applied to deferred costs, to simplify comparisons, an annual inflation rate of 0% is assumed over the time period examined, and costs follow a five-year moving average.

The three 10-year Funding scenarios investigated in Figure 5 are:

- What Funding is required to maintain the current average FCI of around .12 for the next 10 years?
- What's the result of annual Funding at 3% of the CRV for the next 10 years?
- What Funding is required to lower the current projected 5-year FCI of .12 (fair) to .00 (like new) over the next 10 years?

### **Scenario 1:**

#### **Fund to Maintain an Average FCI of .12**

If MU chose to preserve the three Assets' current average FCI of .12 (fair) over the next 10 years, the estimated annual average capital investment funding needs would be just over \$3.15 million per year, ranging from

a high of \$6.7 million in year 1, when many renewals are due, to a low \$1.4 million in year. The current work backlog of \$7.83 million would remain unchanged.

### **Scenario 1 Summary**

*Average Annual Funding: \$3,153,000*  
*Total 10-year Funding: \$31,529,000*  
*Year 10 FCI: 0.12 (fair)*  
*Year 10 Backlog: \$7.83 million*  
*Year 10 Reserve: \$0*

### **Scenario 2:**

#### **Fund at 3.0% of the Three Assets' CRV**

If MU opted to set a funding level of 3.0% of the current \$65.4 million CRV, the current replacement value, for all three Assets, the annual capital investment funding over each of the next 10 years would be just over \$1.96 million. The average FCI would vary each year throughout period examined from a low of .12 (fair) in year 1, rising to a high of .33 (poor) in year 10 as this funding level consistently fails to meet the cost of System renewals. The work backlog would grow from an initial \$7.83 million to \$21.8 million in year 10. The funding reserve throughout would be \$0.

### **Scenario 2 Summary**

*Annual Funding: \$1,963,000*  
*Total 10-year Funding: \$19,626,000*  
*Year 10 FCI: 0.33 (poor)*  
*Year 10 Backlog: \$21.8 million*  
*Year 10 Reserve: \$0*

### **Scenario 3:**

#### **Fund to Reduce FCI to .00 in 10 years**

If MU chose to reduce the current average FCI level of the three Assets from the current .12 (fair) to an FCI of .00 (like new) in 10 years, it would require an annual capital investment ranging from a high of \$7.46 million in year 1, to a low of \$2.10 million in year 7, and averaging \$3.87 million per year. The Assets' initial FCI of .12 would be

steadily reduced and in year 10 FCI would be 0.0, a value considered virtually 'like new' by the APPA, but with aged Systems that will need more investment in coming years than a truly new facility. Both the funding reserve and the backlog in year 10 would be \$0.

### Scenario 3 Summary

**Average Annual Funding: \$3,865,000**

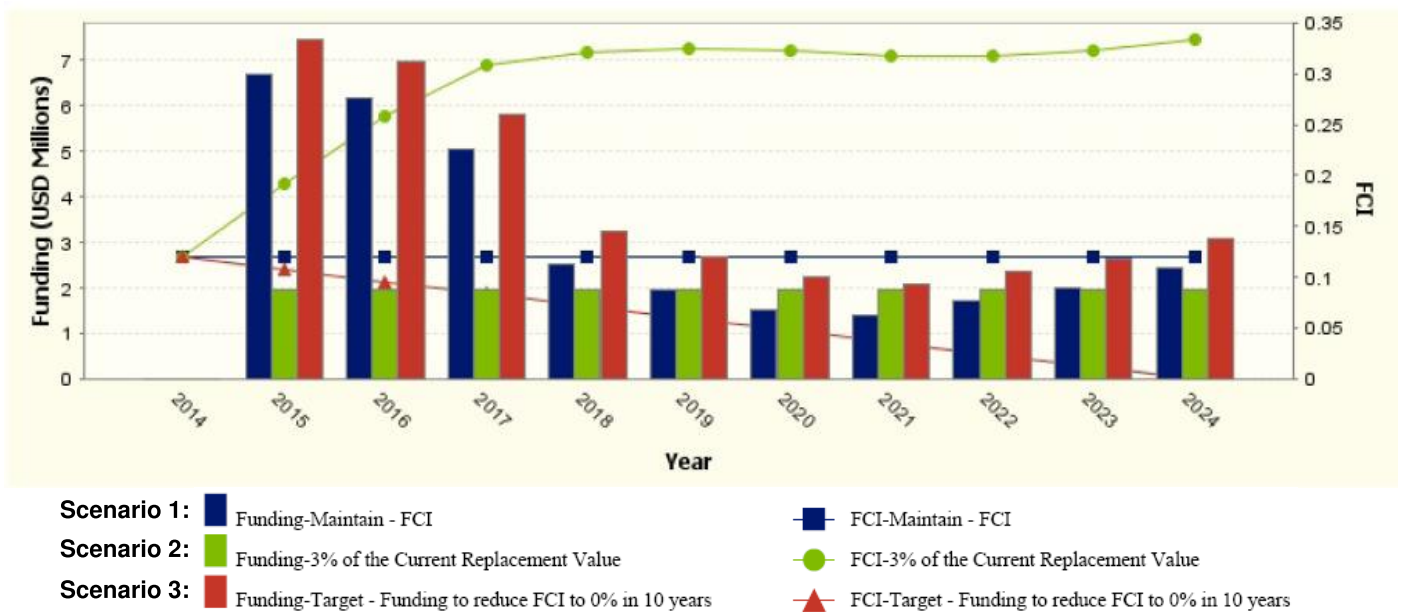
**Total 10-year Funding: \$38,652,000**

**Year 10 FCI: 0.0 (like new)**

**Year 10 Backlog: \$0**

**Year 10 Reserve: \$0**

**Figure 9: Three Fully Assessed Assets – Three 10-Year Funding Scenarios**



### Seventy-One Partially Assessed Assets: 10-Year Funding Scenarios in VFA.facility

MU can utilize the funding module within VFA.facility to examine funding needs for the 71 Assets partially Assessed in 2016, provided the understanding is that the costs, and results of various funding strategies, only apply to the narrow subset of Systems that were field assessed and for which the scope, cost, age, and condition were identified.

The Systems for the 71 Assets partially assessed represent only about 25% of the MBOR replacement value for these Assets,



and thus it is not unreasonable to assume that the costs identified likely represent only a fourth of those actually needed.

Similarly, since the Assets' FCIs are calculated against the full KBOR replacement value, the values are *partial* FCIs, artificially reduced by the scope of the assessments, and again likely representative of only a fourth or so of their true value.

Accepting these limitations, we can proceed to look at the fiscal implications on the subset of Systems across all 71 Assets (See Appendix D) in much the same way as we looked at the fully assessed Assets with three Scenarios considered as outlined below and illustrated in Figure 6:

- What Funding is required to maintain the current average *partial* FCI of around .025 for the subset of Asset Systems assessed over the next 10 years?
- What's the result of annual Funding at .75% of the CRV for the next 10 years, one fourth of value used for fully assessed Assets?
- What Funding is required to lower the current projected 5-year *partial* FCI of .025 to .00 (like new) over the next 10 years?

### **Scenario 1:**

#### Fund to Maintain the *Partial* FCI of .025

If MU chose to preserve the 71 Assets' subset of Systems at their current average *partial* FCI of .025 over the next 10 years, the estimated annual average capital investment funding needs would be just under \$12.3 million per year, ranging from a high of \$27.6 million in year 1, when many renewals are due, to a low \$6.91 million in year 7. The current work backlog of \$35.16 million would remain unchanged.

### **Scenario 1 Summary**

*Average Annual Funding: \$12,293,000*  
*Total 10-year Funding: \$122,931,000*  
*Year 10 partial FCI: 0.025*  
*Year 10 Backlog: \$35.16 million*  
*Year 10 Reserve: \$0*

### **Scenario 2:**

#### Fund at .75% of the Assets' KBOR CRV

If MU opted to set a funding level of .75% of the current \$1.387 billion KBOR CRV for all 71 Assets, the annual capital investment funding over each of the next 10 years would be just under \$10.7 million. The average *partial* FCI would vary each year throughout period examined from its initial low of .025 in year 1, rising to a high of .048 in year 4 and finishing with a value of .042 in year 10. The work backlog would vary throughout the period ending with a backlog of \$59.9 million, and a funding reserve of \$2.59 million in year 10.

### **Scenario 2 Summary**

*Annual Funding: \$10,664,000*  
*Total 10-year Funding: \$106,638,000*  
*Year 10 partial FCI: 0.046*  
*Year 10 Backlog: \$59.9 million*  
*Year 10 Reserve: \$2.59 million*

### **Scenario 3:**

#### Fund to Reduce the Partial FCI to .00

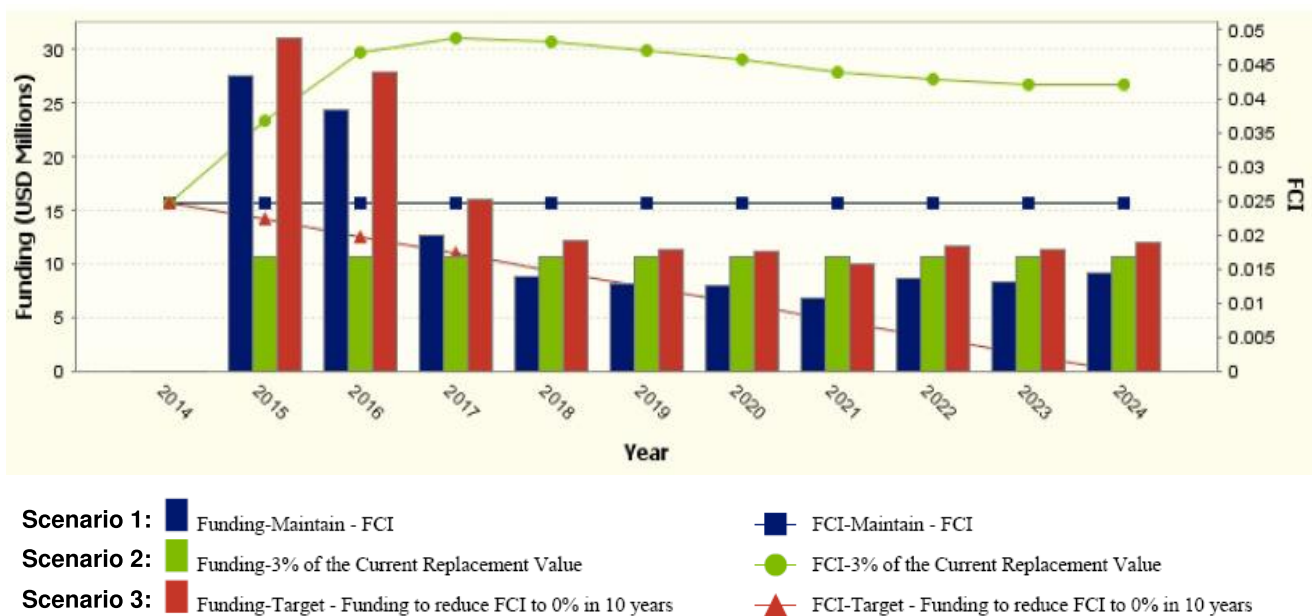
If MU chose to reduce the current average *partial* FCI level of the 71 Assets from the current .025 to a *partial* FCI of .00 (like new) in 10 years, it would require an annual capital investment ranging from a high of \$31.09 million in year 1, to a low of \$10.0 million in year 7, and averaging \$15.49 million per year. The Assets' initial *partial* FCI of .025 would be steadily reduced to 0.0 in year 10, virtually 'like new', but aged, and both the funding reserve and the backlog in year 10 would be \$0.

### Scenario 3 Summary

Average Annual Funding: **\$15,492,000**  
 Total 10-year Funding: **\$154,923,000**  
 Year 10 partial FCI: **0.0 (like new)**  
 Year 10 Backlog: **\$0**  
 Year 10 Reserve: **\$0**

**Figure 9: 71 Partially Assessed Assets – Three 10-Year Funding Scenarios for Systems Assessed in 2016**

*Note: FCIs shown are partial values*



## **APPENDICES**

A. Asset Detail Report -  
3 Full Assessed Assets

31 pages

B. Requirement List Report  
5 Highest Cost Assets

25 pages

C. Three Fully Assessed  
Assets – Funding  
Scenarios

6 pages

D. Seventy-Two Partially  
Assessed Assets –  
Funding Scenarios

6 pages



## **APPENDIX A**

Asset Detail Report  
3 Full Assessed  
Assets



# Asset Detail Report

## By Asset Name

Appendix A - 2016 Assessments - Three Fully Assessed Assets

# Table of Contents

Region: Major University

Campus: Memorial Unions

Asset: Student Union-158 

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 1

Asset: Memorial Union-2 

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 9

Campus: Recreational Services

Asset: Student Recreation Fitness Center-205 

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 22



## Asset Detail Report By Asset Name

Region: Major University  
Campus: MU Memorial Union

Asset: Union  
Asset Number: 158

Assets are ordered by Asset Name

Currency: USD

### Statistics

FCI Cost:	1,603,746
RI Cost:	1,659,247
Total Requirement Cost:	1,659,248

FCI:	0.22
RI:	0.23

Current Replacement Value	7,189,371
Size	48,250 SF
Year Constructed	1979
Year Renovated	-
Commission Date	-
Decommission Date	-
Ownership	Client Owned
Floors	3

Type	Building
------	----------

Campus Zone:	3
MU Mission Critical:	No
Exterior Envelope:	Yes

Address 1	1601 Irving Hill Road
Address 2	-
City	Anytown
State/Province/Region	USA
Zip/Postal Code	00000
Architect	Raymond and Phillip Coolidge
Historical Category	-
Construction Type	IBC - Type 2A
Use	Memorial Union - Multipurpose

Eligible for KBOR Funding:	No
ADA:	Yes
Major M/E/P:	Yes

### Photo



Student Union

### Asset Description

#### General

Union is located at 1601 Irving Hill Road, on the East Campus of the University. The three (3) story building was originally constructed in 1979. The facility has a total area of 48,250 gross square feet (GSF).



## Asset Detail Report

### By Asset Name

The building houses the University Career Center and Workshop on the lower level. A MU Bookstore, a convenience shop and the Crimson Cafe are on the second floor. The third level has meeting and conference rooms and the offices of Legal Services for Students.

ADA: The building is equipped with one (1) hydraulic elevator, has accessible toilet facilities on each level, and appears generally ADAAG compliant. The fire alarm system is equipped with visual warning devices.

The facility is a Mixed Occupancy of Business and Assembly and Type 2A Partially Sprinklered construction.

### Requirements

Requirement Name	Renewal	Prime System	Category	Priority	Action Date	Estimated Cost
ACT System - Older Renewal	Yes	C3030 - Ceiling Finishes	Beyond Useful Life	3- Necessary - Not Yet Critical	Apr 1, 2016	159,956
ADA - Equipment and Furnishings - Fixed Casework - Non-Compliant Service Counters	No	E - Equipment and Furnishings	Accessibility	Not Time Critical		1,419
ADA - Interior Doors - Maneuvering Clearances Not Compliant	No	C1020 - Interior Doors	Accessibility	Not Time Critical		39,490
Aluminum Windows - Older Renewal	Yes	B2020 - Exterior Windows	Beyond Useful Life	2- Potentially Critical	Feb 4, 2015	127,750
Branch Wiring - Equipment & Devices Renewal	Yes	D5021 - Branch Wiring Devices	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	162,202
Carpeting - Broadloom - Older Renewal	Yes	C3020 - Floor Finishes	Beyond Useful Life	2- Potentially Critical	Apr 1, 2015	203,371
Central AHU - Constant Volume Renewal	Yes	D3040 - Distribution Systems	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	91,965
Chilled Water Pump Renewal	Yes	D3040 - Distribution Systems	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	7,803
Condenser Water Pump Renewal	Yes	D3040 - Distribution	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	13,026



## Asset Detail Report By Asset Name

Requirement Name	Renewal	Prime System	Category	Priority	Action Date	Estimated Cost
Systems						
Distribution Equipment, Panelboards, and Feeders - 1979 Renewal	Yes	D5012 - Low Tension Service and Dist.	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	121,813
Distribution Panel - 800A 208V - MDP2 Renewal	Yes	D5010 - Electrical Service and Distribution	Beyond Useful Life	3- Necessary - Not Yet Critical	Mar 18, 2018	22,495
Door Assembly - 3 x 7 HM Renewal	Yes	B2030 - Exterior Doors	Beyond Useful Life	2- Potentially Critical	Feb 4, 2015	7,558
Door Assembly - 3 x 7 Storefront Renewal	Yes	B2030 - Exterior Doors	Beyond Useful Life	2- Potentially Critical	Feb 18, 2015	4,695
Door Assembly - 6 x 7 Storefront Renewal	Yes	B2030 - Exterior Doors	Beyond Useful Life	2- Potentially Critical	Feb 18, 2015	67,027
Elastomeric Coating Renewal	Yes	B30 - Roofing	Beyond Useful Life	2- Potentially Critical	Feb 18, 2015	83,308
Emergency Battery Pack Lights Renewal	Yes	D5092 - Emergency Light and Power Systems	Beyond Useful Life	3- Necessary - Not Yet Critical	Mar 18, 2019	43,688
Exterior Soffits - Painted Finish Peeling and Stained	No	B2016 - Exterior Soffits	Appearance	2- Potentially Critical	Feb 4, 2015	6,171
Exterior Walls - Cracked and Damaged Brick Walls	No	B2010 - Exterior Walls	Reliability	1- Currently Critical	Feb 4, 2014	4,808
Fan Coil System - Cabinet Renewal	Yes	D3040 - Distribution Systems	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	18,086
Heating Hot Water Pump Renewal	Yes	D3040 - Distribution Systems	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	6,740
High Voltage Gear - Unprotected	No	D5011 - High Tension	Grandfathered Code	Not Time Critical		8,422



# Asset Detail Report

## By Asset Name

Requirement Name	Renewal	Prime System	Category	Priority	Action Date	Estimated Cost
		Service and Dist.				
High Voltage Switch Renewal	Yes	D5011 - High Tension	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	52,175
		Service and Dist.				
High Voltage Transformer Renewal	Yes	D5011 - High Tension	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	41,359
		Service and Dist.				
Main Distribution Panels - 800A 208V Renewal	Yes	D5010 - Electrical	Beyond Useful Life	3- Necessary - Not Yet Critical	Mar 18, 2018	22,495
		Service and Distribution				
Main Electrical Service - 2000A 208V Renewal	Yes	D5010 - Electrical	Beyond Useful Life	3- Necessary - Not Yet Critical	Mar 18, 2018	47,422
		Service and Distribution				
Pedestrian Paving - Cracked and Damaged	No	G2030 - Pedestrian Paving	Reliability	1- Currently Critical	Feb 4, 2014	7,988
Pole Lights Renewal	Yes	D5020 - Lighting and Branch Wiring	Beyond Useful Life	1- Currently Critical	Mar 18, 2013	27,069
Security System - Burglar Alarm System Renewal	Yes	D5038 - Security and Detection Systems	Beyond Useful Life	3- Necessary - Not Yet Critical	Mar 18, 2019	5,901
Skylights - Dome Types Renewal	Yes	B3021 - Glazed Roof Openings	Beyond Useful Life	3- Necessary - Not Yet Critical	Apr 1, 2018	10,427
Steam to HHW Heat Exchanger Renewal	Yes	D3020 - Heat Generating Systems	Beyond Useful Life	3- Necessary - Not Yet Critical	Mar 18, 2018	26,780
Water Dist Complete Renewal	Yes	D2020 - Domestic Water Distribution	Beyond Useful Life	3- Necessary - Not Yet Critical	Mar 18, 2018	189,059
Water Heater - Steam Renewal	Yes	D2020 - Domestic	Beyond Useful Life	3- Necessary - Not Yet	Mar 18, 2018	26,780



# Asset Detail Report

## By Asset Name

Requirement Name	Renewal	Prime System	Category	Priority	Action Date	Estimated Cost
		Water Distribution		Critical		
Total						1,659,248

### Replacement Value Based on System Cost with Overheads

#### System Costs

System	System Name	Cost
A - Substructure	Foundation Wall and Footings 10-Ft - Full Basement	90,396
A - Substructure	Structural Slab on Grade - Non-Industrial	100,926
A - Substructure	Foundation Wall and Footings - No Basement	10,382
A - Substructure	Foundation Wall and Footings 20-Ft - Full Basement	105,759
A - Substructure	Grade Beams - Average	154,449
B10 - Superstructure	Multi-Story - Concrete	1,324,744
B1014 - Ramps	Accessible Ramp - Exterior Concrete	22,872
B1015 - Exterior Stairs and Fire Escapes	Exterior Stairs - Steel Grating	10,938
B1015 - Exterior Stairs and Fire Escapes	Exterior Stairs - Concrete	46,219
B2010 - Exterior Walls	Solid Brick Walls	316,220
B2010 - Exterior Walls	Stucco On CMU Walls	8,670
B2010 - Exterior Walls	Metal Paneled Walls - Aveage	6,568
B2013 - Exterior Louvers, Screens, and Fencing	Metal Wall Louvers	20,432
B2015 - Balcony Walls and Handrails	Metal Pipe Railings	95,328
B2016 - Exterior Soffits	Fiber Cement Soffit	23,100
B2020 - Exterior Windows	Aluminum Windows - Older	102,200
B2020 - Exterior Windows	Aluminum Windows - Newer	36,500
B2030 - Exterior Doors	Door Assembly - 3 x 7 Storefront	3,756
B2030 - Exterior Doors	Automatic Openers - Single	17,391
B2030 - Exterior Doors	Door Assembly - 6 x 7 Storefront	53,622
B2030 - Exterior Doors	Door Assembly - 6 x 7 HM	3,901
B2030 - Exterior Doors	Door Assembly - 3 x 7 HM	6,046
B2030 - Exterior Doors	Overhead Sectional Doors - Electric Operation	5,947
B30 - Roofing	Modified Bitumen	102,554





## Asset Detail Report

### By Asset Name

System	System Name	Cost
B30 - Roofing	Metal Roofing - Economy	5,208
B30 - Roofing	Elastomeric Coating	66,646
B3021 - Glazed Roof Openings	Skylights - Monumental	3,018
B3021 - Glazed Roof Openings	Skylights - Dome Types	8,342
C1010 - Partitions	GWB Walls - Standard (Non-Painted)	96,544
C1010 - Partitions	CMU Block Walls - Plain	32,768
C1010 - Partitions	GWB Partitions On Furring	7,122
C1010 - Partitions	Plaster Walls - 3 Coats	25,944
C1010 - Partitions	Folding Partitions - Metal	22,503
C1010 - Partitions	Brick Walls	306,440
C1010 - Partitions	Windows/Storefront Partitions - Average	23,696
C1020 - Interior Doors	Automatic Openers - Single	5,797
C1020 - Interior Doors	Swinging Doors - 3 x 7 Storefront	5,653
C1020 - Interior Doors	Overhead/Rolling Grille Door - Mid-Size	9,462
C1020 - Interior Doors	Swinging Doors - Pair - 6 x 7 Wd	32,010
C1020 - Interior Doors	Swinging Doors - Pair - 6 x 7 HM	26,033
C1020 - Interior Doors	Swinging Doors - 3 x 7 Wd	183,730
C1020 - Interior Doors	Swinging Doors - 3 x 7 HM	25,253
C1020 - Interior Doors	Overhead/Rolling Counter Door - Small	3,738
C1030 - Fittings	Toilet Partitions - Average	8,866
C1030 - Fittings	Restroom Accessories - Average	39,403
C1035 - Identifying Devices	Fittings - Signage (Room Numbering and Identification)	21,717
C20 - Stairs	Stairs	33,474
C3010 - Wall Finishes	Slatwall Panels	12,684
C3010 - Wall Finishes	Wall Covering - Vinyl	2,502
C3010 - Wall Finishes	Ceramic Wall Tile	25,096
C3010 - Wall Finishes	Painted Finish - Average (1 Coat Prime - 2 Coats Finish)	43,966
C3020 - Floor Finishes	Carpeting - Broadloom - Older	162,697
C3020 - Floor Finishes	Ceramic Tile - Older	24,068
C3020 - Floor Finishes	Epoxy Flooring	27,575
C3020 - Floor Finishes	VCT	41,124
C3020 - Floor Finishes	Ceramic Tile - Newer	60,973
C3020 - Floor Finishes	Carpeting - Broadloom - Newer	85,953



# Asset Detail Report

## By Asset Name

System	System Name	Cost
C3030 - Ceiling Finishes	GWB Taped and Finished	5,640
C3030 - Ceiling Finishes	Painted Plaster	31,692
C3030 - Ceiling Finishes	ACT System - Newer	36,818
C3030 - Ceiling Finishes	ACT System - Older	127,965
D1010 - Elevators and Lifts	Hydraulic Passenger Elev	76,621
D20 - Plumbing	Sump Pump - Submersible	5,083
D2010 - Plumbing Fixtures	Kitchenette - Cabinet, Counter and Sink	5,284
D2010 - Plumbing Fixtures	Water Coolers - Wall-Mounted	5,284
D2010 - Plumbing Fixtures	Restroom Fixtures	76,327
D2010 - Plumbing Fixtures	Custodial/Utility Sinks - Each	15,954
D2020 - Domestic Water Distribution	Water Heater - Steam	23,911
D2020 - Domestic Water Distribution	Water Softener System	11,289
D2020 - Domestic Water Distribution	Water Dist Complete	168,053
D2030 - Sanitary Waste	Sanitary Waste - Gravity Disch	108,218
D2040 - Rain Water Drainage	Roof Drainage - Gravity - Average	30,310
D3020 - Heat Generating Systems	Steam to HHW Heat Exchanger	23,911
D3030 - Cooling Generating Systems	Cooling Tower - Galvanized	47,526
D3030 - Cooling Generating Systems	Chiller - McQuay - 1995	117,480
D3040 - Distribution Systems	Kitchen Hood Exhaust	67,628
D3040 - Distribution Systems	Fan Coil System - Cabinet	14,469
D3040 - Distribution Systems	Chilled Water Pump	6,242
D3040 - Distribution Systems	Central AHU - Constant Volume	73,572
D3040 - Distribution Systems	Central AHU - Variable Volume - McQuay	36,786
D3040 - Distribution Systems	Condenser Water Pump	10,421
D3040 - Distribution Systems	Condensate Return Pump	9,774
D3040 - Distribution Systems	Chilled and Heating Hot Water Distribution Piping	34,377
D3040 - Distribution Systems	Heating Hot Water Pump	5,392
D3050 - Terminal and Package Units	Ductwork	144,339
D3060 - Controls and Instrumentation	Controls Air Compressors - Reciprocating	4,889
D3060 - Controls and Instrumentation	DDC/Pneumatic System - Hybrid - Average	238,188
D3060 - Controls and Instrumentation	Variable Frequency Drives	23,108
D40 - Fire Protection	Kitchen Hood Suppression	12,290
D40 - Fire Protection	Backflow Preventer - Domestic Water	1,908
D40 - Fire Protection	Wet Sprinkler System - Basement Only	96,334



# Asset Detail Report

## By Asset Name

System	System Name	Cost
D40 - Fire Protection	Backflow Preventer - Sprinkler System	10,451
D5010 - Electrical Service and Distribution	Distribution Panel - 800A 208V - MDP2	17,996
D5010 - Electrical Service and Distribution	Main Distribution Panels - 800A 208V	17,996
D5010 - Electrical Service and Distribution	Main Electrical Service - 2000A 208V	37,938
D5011 - High Tension Service and Dist.	High Voltage Switch	41,740
D5011 - High Tension Service and Dist.	High Voltage Transformer	33,087
D5012 - Low Tension Service and Dist.	Distribution Equipment, Panelboards, and Feeders - 1995	58,470
D5012 - Low Tension Service and Dist.	Distribution Equipment, Panelboards, and Feeders - 1979	97,450
D5012 - Low Tension Service and Dist.	Distribution Equipment, Panelboards, and Feeders - 2006	38,980
D5020 - Lighting and Branch Wiring	Pole Lights	27,069
D5021 - Branch Wiring Devices	Branch Wiring - Equipment & Devices	129,762
D5022 - Lighting Equipment	Lighting Fixtures	204,792
D5033 - Telephone Systems	Telephone System	113,350
D5037 - Fire Alarm Systems	Fire Alarm System	65,748
D5038 - Security and Detection Systems	Security System - CCTV - Bookstore	9,563
D5038 - Security and Detection Systems	Security System - Burglar Alarm System	4,721
D5039 - Local Area Networks	LAN System	108,390
D5092 - Emergency Light and Power Systems	Emergency Battery Pack Lights	34,951
D5092 - Emergency Light and Power Systems	Exit Signs	29,859
E - Equipment and Furnishings	Kitchen Cabinets	36,741
E - Equipment and Furnishings	Kitchen Equipment	35,746
E - Equipment and Furnishings	Fixed Casework - Average	13,777
E1010 - Commercial Equipment	Walk-In Coolers	86,314
G2030 - Pedestrian Paving	Pedestrian Pavement - Concrete	39,960
G2040 - Site Development	Retaining Wall - CIP Concrete	48,512
Subtotal		7,189,371

### Overhead Costs

Description	Cost
	0

Total Replacement Value Based on System Cost with Overheads 7,189,371

## F. Past Performance

Accruent has a long history of supporting State and Local Government organizations with their assessment services, professional services, consulting, and Software needs. We are proud to have delivered facilities condition assessments to the following organizations in the United States. References from 3 select client representatives are found below.

- Alexandria, VA (City of)
- Anaheim, CA (City of)
- Anoka County MN (County of)
- Angelo State University (TX)
- Arkansas Department of Finance and Administration
- Atlanta, GA (City of)
- Arlington County, VA
- Baltimore, MD (City of)
- Baylor University (TX)
- Bedford, MA (City of)
- Bellingham, WA (City of)
- Bloomington, MN (City of)
- Buffalo NY (City of) Office of Strategic Planning
- California Dept. of Corrections and Rehabilitation
- California Judicial Council
- Colorado Dept. of Education
- Colorado State University
- Commonwealth of KY Council on Post-Secondary Education
- Connecticut Department of Higher Education
- Cook County, IL
- Dallas County, TX
- D.C Dept. of General Services
- Duluth, MN (City of)
- Edina, MN (City of)
- Farmington Hills, MI (City of)
- Fresno County, CA
- Georgia Dept. of Transportation
- Grand Junction, CO (City of)
- Hillsborough County, FL
- Houston, TX (City of)
- Idaho Dept. of Correction
- Illinois State Capital Development Board
- Johnson County, KS
- Kansas City, MO
- Lake County, IL
- Lane County, OR
- Louisiana Dept. of Administration
- Madison, WI (City of)
- McHenry County, IL
- Marin County, CA
- Mesa County, CO
- Miami Beach, FL (City of)
- Miami-Dade County, FL
- Milwaukee County, WI
- Missouri Dept. of Administration
- Missouri Dept. of Transportation
- New Caney ISD (TX)
- Newport News, VA (City of)
- Ohio Department of Administrative Services
- Palm Springs, CA (City of)
- Palo Alto, CA (City of)
- Pearland, TX (City of)
- Red Wing, MN (City of)
- Rice University
- Santa Clara County, CA
- Sonoma County, CA
- Stafford County, VA
- St. Louis County, MN
- Tarleton State University (TX)
- Texas A&M University System
- Texas Department of Transportation
- Texas Woman's University
- Travis County, TX
- Union County, NC
- University of Houston System
- University of North Texas System
- University of Texas – Austin
- Wake County, NC
- Washington County, MN
- Wicomico MD (County Of) Board of Education
- Winchester, MA (City of)
- Wisconsin Department of Transportation

D.C Department of General Services	
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<b>Date of Service</b>	6/19/2020 – Present
<b>Scope Description</b>	Accruent provides ongoing facilities condition assessment services, professional services, consulting and VFA.facility software.

Missouri Department of Transportation	
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<b>Date of Service</b>	2002 – Present
<b>Scope Description</b>	Accruent provided facilities condition assessment services, professional services, FCA training programs, and VFA.facility software.

County of Fresno, CA	
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<b>Address</b>	Internal Services 333 Pontiac Way Clovis, CA 93612
<b>Date of Service</b>	6/29/2016 – Present
<b>Scope Description</b>	Accruent provided Facilities Condition Assessment Services, Consulting Services, and VFA.facility Software.