



# **Requirement Detail Report**

**By Asset Name and Priority**

**State Capital Building (01)**

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**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	ACT System - Concealed Spline - 1965 Renewal		
<b>Linked System</b>	Ceiling Finishes	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Ceiling Finishes	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	73,508

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for ACT System - Concealed Spline - 1965. System Description: Concealed spline 12 x 12 x 3/4-in. ACT ceiling system with "Z" grid at isolated offices including: ground floor (NW corner), 1st floor (SE corner), 2nd floor (SE corner), 3rd floor (SE corner).

**PHOTOS**



ACT System - Concealed Spline - 1965 Renewal  
 ACT System - Concealed Spline - 1965 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for ACT System - Concealed Spline - 1965 Renewal	1.00	Ea.	73,508.39	73,508
				<b>Subtotal:</b>	73,508
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	73,508

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Aluminum Windows - Dome Barrel - 1985 Renewal		
<b>Linked System</b>	Exterior Windows	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Windows	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	155,248

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Aluminum Windows - Dome Barrel - 1985. System Description: The dome barrel includes fixed aluminum framed exterior units with insulating glass. Includes interior wood trim.

% renewal increased to account for restricted access to windows.

Years remaining adjusted per Owner review comments received 02/14/2011.

**PHOTOS**



Aluminum Windows - Dome Barrel - 1985 Renewal  
Aluminum Windows - Dome Barrel - 1985 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Aluminum Windows - Dome Barrel - 1985 Renewal	1.00	Ea.	155,247.60	155,248
				<b>Subtotal:</b>	155,248
				<b>Adjustment Factor:</b>	1.0000

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

**Total:** 155,248

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Audio Systems - Amplifier Beyond Rated Life - Room 119		
<b>Linked System</b>	Intercommunication and Paging System	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Intercommunication and Paging System	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	66,610

**REQUIREMENT DESCRIPTION**

There is an aged amplifier located in a restroom, Room 119 on the first floor.

**PHOTOS**



Audio Systems - Amplifier Beyond Rated Life - Room 119  
 Audio Systems - Amplifier Beyond Rated Life - Room 119

**ACTION DESCRIPTION**

Replace the aged amplifier located in Room 119. Relocate the amplifier to a proper location. Reroute all conduit and wiring as applicable. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50309100240	Communication and alarm systems, includes outlets, boxes, conduit and wire, sound systems, 30 outlets	1.00	Ea.	40,458.69	40,459
U111366003800	Movie equipment, sound systems, Dolby/Super Sound, incl. amplifier, maximum	1.00	Ea.	21,560.92	21,561
U168208401000	Sound system, monitor panel	1.00	Ea.	573.14	573
U168208401200	Sound system, antenna, AM & FM	1.00	Ea.	315.27	315

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U168208401400	Sound system, volume control	1.00	Ea.	172.80	173
U168208401600	Sound system, amplifier, 250 W	1.00	Ea.	1,962.09	1,962
U168208401800	Sound system, cabinet	1.00	Ea.	1,566.61	1,567
				<b>Subtotal:</b>	66,610
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	66,610

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Audio Systems - Amplifier Beyond Rated Life - Room B36		
<b>Linked System</b>	Intercommunication and Paging System	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Intercommunication and Paging System	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	26,151

**REQUIREMENT DESCRIPTION**

The amplifier serving Room G15 is aged and beyond its useful life in accordance with BOMA (2003) recommendations. The unit is located in Room B36.

**PHOTOS**



Audio Systems - Amplifier Beyond Rated Life - Room B36  
 Audio Systems - Amplifier Beyond Rated Life - Room B36

**ACTION DESCRIPTION**

Replace the aged amplifier located in Room B36. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U111366003800	Movie equipment, sound systems, Dolby/Super Sound, incl. amplifier, maximum	1.00	Ea.	21,560.92	21,561
U168208401000	Sound system, monitor panel	1.00	Ea.	573.14	573
U168208401200	Sound system, antenna, AM & FM	1.00	Ea.	315.27	315
U168208401400	Sound system, volume control	1.00	Ea.	172.80	173
U168208401600	Sound system, amplifier, 250 W	1.00	Ea.	1,962.09	1,962
U168208401800	Sound system, cabinet	1.00	Ea.	1,566.61	1,567

All costs in USD.



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Subtotal:</b>	26,151
<b>Adjustment Factor:</b>	1.0000
<b>Total:</b>	26,151

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Audio Systems - Volume Control Beyond Rated Life - Room 316B		
<b>Linked System</b>	Intercommunication and Paging System	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Intercommunication and Paging System	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	5,110

**REQUIREMENT DESCRIPTION**

There is a small aged sound control box located in Room 316B serving the Supreme Court.

**PHOTOS**



Audio Systems - Volume Control Beyond Rated Life - Room 316B  
 Audio Systems - Volume Control Beyond Rated Life - Room 316B

**ACTION DESCRIPTION**

Replace the aged sound control station located in Room 316B. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U111366003700	Movie equipment, sound systems, mono, incl. amplifier, minimum	1.00	Ea.	4,363.74	4,364
U168208401000	Sound system, monitor panel	1.00	Ea.	573.14	573
U168208401400	Sound system, volume control	1.00	Ea.	172.80	173
				<b>Subtotal:</b>	5,110
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	5,110

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Conduits Rusted and Deteriorated - Room B34A		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	12,831

**REQUIREMENT DESCRIPTION**

Electrical conduits located on the exterior wall at the South Entrance and in the Ground Floor storage units at the South Entrance are rusted and starting to deteriorate. Conduits in the Basement Tunnel B34A are completely rusted in half exposing the interior wiring. There are also two junction box covers missing in B34A.

**PHOTOS**



Branch Wiring - Conduits Rusted and Deteriorated - Room B34A  
 Branch Wiring - Conduits Rusted and Deteriorated - Room B34A

**ACTION DESCRIPTION**

Replace the rusted conduits on the exterior wall at the South Entrance, in the Ground Floor storage units at the South Entrance, and in the Basement Tunnel B34A. Replace missing junction box covers in B34A.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102301240	Branch installation 600 V, including EMT conduit and THW wire, 20 A	1,000.00	L.F.	7.81	7,810
U018323601030	Electrical Facilities Maintenance, distribution systems and equipment, reset breaker or replace fuse	5.00	Ea.	36.65	183

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	2.00	Week	326.04	652
U160553000200	Conduit, electric metallic tubing (EMT), 1/2" to 1" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	1,000.00	L.F.	1.75	1,750
U160553001720	Junction boxes, 4" square & octagon, electrical demolition, remove, incl removal of supports and terminations	10.00	Ea.	8.61	86
U160553001840	Wire, THW-THWN-THHN, #12, electrical demolition, removed from in place conduit, to 15' high	40.00	C.L.F.	12.53	501
U161366000250	Outlet boxes, pressed steel, covers, blank, 4" square	10.00	Ea.	12.55	126
U161366009000	Outlet boxes, minimum labor/equipment charge	10.00	Job	172.24	1,722
				<b>Subtotal:</b>	12,831
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	12,831

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Improper Installation - Room 355		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	973

**REQUIREMENT DESCRIPTION**

There is a surface mounted junction box and receptacle improperly mounted to a flush mount multiple outlet faceplate in Room 355 in violation of NFPA 70 (2005) Articles 110.3(B) and 110.12.

**PHOTOS**



Branch Wiring - Improper Installation - Room 355  
Branch Wiring - Improper Installation - Room 355

**ACTION DESCRIPTION**

Remove the improperly mounted junction box and receptacle outlet in Room 355 and provide new proper installation. Replace the damaged flush mount faceplate.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102301240	Branch installation 600 V, including EMT conduit and THW wire, 20 A	10.00	L.F.	7.81	78
AD50201250560	Receptacle duplex 120 V grounded, 20 A with box, plate, 3/4" EMT & wire	1.00	Ea.	285.57	286
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	1.00	Job	348.48	348

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U160553001760	Switch boxes, electrical demolition, remove, incl removal of supports and terminations	1.00	Ea.	6.44	6
U160553001780	Receptacle & switch plates, electrical demolition, remove	1.00	Ea.	2.68	3
U160553001790	Receptacle & switches, 15 to 30 amp, electrical demolition, remove	1.00	Ea.	5.10	5
U160553009000	Electrical demolition, minimum labor/equipment charge	1.00	Job	172.24	172
U161409103100	Wall plate, stainless steel, 4 gang	2.00	Ea.	37.22	74
				<b>Subtotal:</b>	973
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	973

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Insufficient Outlets - Basement		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Capacity/Design	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	6,104

**REQUIREMENT DESCRIPTION**

There are an insufficient number of receptacle outlets in many areas of the Basement resulting in widespread use of extension cords and power strips. Specific locations include Room B59B.

**PHOTOS**



Branch Wiring - Insufficient Outlets - Basement  
Branch Wiring - Insufficient Outlets - Basement

**ACTION DESCRIPTION**

Provide additional receptacle outlets in areas identified in the Basement as required to eliminate the use of extension cords and power strips. Unit count is based on approximately 25% increase in number of outlets and is for budget purposes only. Actual count may vary. Areas identified include but are not necessarily limited to Room B59B.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50201200920	Receptacles and wall switches, 1000 SF, 14 receptacles	1,000.00	S.F.	3.49	3,490
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	5.00	Job	348.48	1,742
U095109009000	Ceiling Tiles, minimum labor/equipment charge	5.00	Job	174.24	871
				<b>Subtotal:</b>	6,104
				<b>Adjustment Factor:</b>	1.0000

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

**Total:** 6,104

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Insufficient Outlets - First Floor		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Capacity/Design	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	24,414

**REQUIREMENT DESCRIPTION**

There are an insufficient number of receptacle outlets in many areas of the First Floor resulting in widespread use of extension cords and power strips. Specific locations include Room 120, 103E.

**PHOTOS**



Branch Wiring - Insufficient Outlets - First Floor  
Branch Wiring - Insufficient Outlets - First Floor

**ACTION DESCRIPTION**

Provide additional receptacle outlets in areas identified on the First Floor as required to eliminate the use of extension cords and power strips. Unit count is based on approximately 25% increase in number of outlets and is for budget purposes only. Actual count may vary. Areas identified include but are not necessarily limited to Room 120, 103E.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50201200920	Receptacles and wall switches, 1000 SF, 14 receptacles	4,000.00	S.F.	3.49	13,960
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	20.00	Job	348.48	6,970
U095109009000	Ceiling Tiles, minimum labor/equipment charge	20.00	Job	174.24	3,485
				<b>Subtotal:</b>	24,414
				<b>Adjustment Factor:</b>	1.0000

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

**Total:** 24,414

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Insufficient Outlets - Ground Floor		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Capacity/Design	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	12,207

**REQUIREMENT DESCRIPTION**

There are an insufficient number of receptacle outlets in many areas of the Ground Floor resulting in widespread use of extension cords and power strips. Specific locations include Room G18.

**PHOTOS**



Branch Wiring - Insufficient Outlets - Ground Floor  
 Branch Wiring - Insufficient Outlets - Ground Floor

**ACTION DESCRIPTION**

Provide additional receptacle outlets in areas identified on the Ground Floor as required to eliminate the use of extension cords and power strips. Unit count is based on approximately 25% increase in number of outlets and is for budget purposes only. Actual count may vary. Areas identified include but are not necessarily limited to Room G18.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50201200920	Receptacles and wall switches, 1000 SF, 14 receptacles	2,000.00	S.F.	3.49	6,980
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	10.00	Job	348.48	3,485
U095109009000	Ceiling Tiles, minimum labor/equipment charge	10.00	Job	174.24	1,742
				<b>Subtotal:</b>	<b>12,207</b>

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

**Adjustment Factor:** 1.0000  
**Total:** 12,207

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Insufficient Outlets - Second Floor		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Capacity/Design	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	12,207

**REQUIREMENT DESCRIPTION**

There are an insufficient number of receptacle outlets in many areas of the Second Floor resulting in widespread use of extension cords and power strips. Specific locations include Room 214.

**PHOTOS**



Branch Wiring - Insufficient Outlets - Second Floor  
Branch Wiring - Insufficient Outlets - Second Floor

**ACTION DESCRIPTION**

Provide additional receptacle outlets in areas identified on the Second Floor as required to eliminate the use of extension cords and power strips. Unit count is based on approximately 25% increase in number of outlets and is for budget purposes only. Actual count may vary. Areas identified include but are not necessarily limited to Room 214.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50201200920	Receptacles and wall switches, 1000 SF, 14 receptacles	2,000.00	S.F.	3.49	6,980
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	10.00	Job	348.48	3,485
U095109009000	Ceiling Tiles, minimum labor/equipment charge	10.00	Job	174.24	1,742
				<b>Subtotal:</b>	<b>12,207</b>

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

**Adjustment Factor:** 1.0000  
**Total:** 12,207

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Insufficient Outlets - Third Floor		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Capacity/Design	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	148,208

**REQUIREMENT DESCRIPTION**

There are an insufficient number of receptacle outlets in many areas of the Third Floor resulting in widespread use of extension cords and power strips. Specific locations include Rooms 317A/B/C, 321, 323-330, 302-309.

**PHOTOS**



Branch Wiring - Insufficient Outlets - Third Floor  
Branch Wiring - Insufficient Outlets - Third Floor

**ACTION DESCRIPTION**

Provide additional receptacle outlets in areas identified on the Third Floor as required to eliminate the use of extension cords and power strips. Unit count is based on approximately 25% increase in number of outlets and is for budget purposes only. Actual count may vary. Areas identified include but are not necessarily limited to Rooms 317A/B/C, 321, 323-330, 302-309.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50201200920	Receptacles and wall switches, 1000 SF, 14 receptacles	20,000.00	S.F.	3.49	69,800
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	150.00	Job	348.48	52,272
U095109009000	Ceiling Tiles, minimum labor/equipment charge	150.00	Job	174.24	26,136
				<b>Subtotal:</b>	148,208
				<b>Adjustment Factor:</b>	1.0000

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

**Total:** 148,208

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring – Outlets Not Installed at HVAC Units		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	12,261

**REQUIREMENT DESCRIPTION**

Receptacle outlets are not installed in accessible locations or within 25 feet of all HVAC units on the roof for use by workers servicing the equipment in violation of NFPA 70 (2005) Article 210.63.

**PHOTOS**



Branch Wiring – Outlets Not Installed at HVAC Units

Branch Wiring – Outlets Not Installed at HVAC Units

**ACTION DESCRIPTION**

Provide receptacle outlets in accessible locations on the roof and within 25 feet of all HVAC equipment for use by workers servicing the equipment. Provide roof penetrations as required. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102301240	Branch installation 600 V, including EMT conduit and THW wire, 20 A	375.00	L.F.	7.81	2,929
AD50201250640	Receptacle duplex G.F.I. 20 A with box, plate, 3/4" EMT & wire	15.00	Ea.	315.32	4,730
U073203004040	Roof tiles, pipe flashing tile w/rubber boot, 100% recycled copper, for 1-1/2" pipe	15.00	Ea.	89.10	1,337

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U073203009000	Concrete Tiles, minimum labor/equipment charge	15.00	Job	217.71	3,266
				<b>Subtotal:</b>	12,261
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	12,261

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Bronze Lamp Post - Wired With Extension Cord		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	1,370

**REQUIREMENT DESCRIPTION**

A bronze post lamp located on the second floor at the SE corner of the Rotunda is wired with an extension cord in violation of NFPA 70 (2005) Article 400.8(1).

**PHOTOS**



Bronze Lamp Post - Wired With Extension Cord

Bronze Lamp Post - Wired With Extension Cord

**ACTION DESCRIPTION**

Remove the extension cord connecting the bronze post lamp on the second floor at the SE corner of the Rotunda and provide proper wiring for the post lamp.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U022102001999	Concrete core drilling, includes bit, layout and set up, minimum equipment/labor charge	1.00	Job	278.86	279
U160553009000	Electrical demolition, minimum labor/equipment charge	1.00	Job	172.24	172
U161209009000	Wire, minimum labor/equipment charge	1.00	Job	172.24	172
U161322059990	Conduit, to 15' high, minimum labor/equipment charge	1.00	Job	172.24	172
U161366009000	Outlet boxes, minimum labor/equipment charge	2.00	Job	172.24	344

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U165104409000	Interior lighting fixtures, minimum labor/equip charge	1.00	Job	229.66	230
				<b>Subtotal:</b>	1,370
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	1,370

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Building Floodlights - Luminaire Supports on Roof Starting to Rust		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Reliability	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	9,840

**REQUIREMENT DESCRIPTION**

Steel frames on the roof supporting building floodlights are starting to show signs of age with paint peeling and steel supports starting to rust.

**PHOTOS**



Building Floodlights - Luminaire Supports on Roof Starting to Rust  
 Building Floodlights - Luminaire Supports on Roof Starting to Rust

**ACTION DESCRIPTION**

Remove all rust and repaint the steel supports on the roof supporting building floodlights.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U099106200190	Paints & Coatings, misc. exterior, wrought iron railings, brushwork, zinc chromate, primer, 60" high, 1" rail, 1/2" sq. verticals, 6" O.C.	500.00	L.F.	5.03	2,515
U099106200210	Paints & Coatings, misc. exterior, wrought iron railings, brushwork, zinc chromate, 1 additional finish coat, 60" high, 1" rail, 1/2" sq. verticals, 6" O.C.	500.00	L.F.	3.23	1,615
U099909001310	Surface Preparation, exterior, misc., wire brush, metal, pedestrian gate	1,000.00	S.F.	5.71	5,710

*All costs in USD.*

<b>Subtotal:</b>	9,840
<b>Adjustment Factor:</b>	1.0000
<b>Total:</b>	9,840

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Built-up Membrane with Thickset Pavers on Roof - 2nd Floor Balconies - 1985 Renewal		
<b>Linked System</b>	Roofing	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Roofing	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	100,024

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Built-up Membrane with Thickset Pavers on Roof - 2nd Floor Balconies - 1985. System Description: The roof covering includes thickset brick paver ballast above asphalt membrane on concrete or masonry roof deck at 2nd floor balconies.

**PHOTOS**



Built-up Membrane with Thickset Pavers on Roof - 2nd Floor Balconies - 1985 Renewal

Built-up Membrane with Thickset Pavers on Roof - 2nd Floor Balconies - 1985 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Built-up Membrane with Thickset Pavers on Roof - 2nd Floor Balconies - 1985 Renewal	1.00	Ea.	100,024.13	100,024
				<b>Subtotal:</b>	100,024
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	100,024

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Carpeting - Broadloom - High Quality - 3rd Floor - 1980 Renewal		
<b>Linked System</b>	Floor Finishes	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Floor Finishes	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	46,456

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Carpeting - Broadloom - High Quality - 3rd Floor - 1980. System Description: Floor finishes include deluxe carpeting with carpet pad in 3rd floor NE corner TV room (317), corridors, support spaces, etc.

**PHOTOS**



Carpeting - Broadloom - High Quality - 3rd Floor - 1980 Renewal  
 Carpeting - Broadloom - High Quality - 3rd Floor - 1980 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Carpeting - Broadloom - High Quality - 3rd Floor - 1980 Renewal	1.00	Ea.	46,456.25	46,456
				<b>Subtotal:</b>	46,456
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	46,456

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Central AHU - Const Volume w/Distribution Renewal		
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	7,565,707

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Central AHU - Const Volume w/Distribution. System Description: The HVAC system includes constant volume air handling units, distribution ductwork, diffusers and plenum return. There are a total of 28 air handling units throughout the building, most with constant velocity terminal units.

**PHOTOS**



Central AHU - Const Volume w/Distribution Renewal  
 Central AHU - Const Volume w/Distribution Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Central AHU - Const Volume w/Distribution Renewal	1.00	Ea.	7,565,707.46	7,565,707
				<b>Subtotal:</b>	7,565,707
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	7,565,707

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Communication Wiring - Improperly Installed - Room 215/218		
<b>Linked System</b>	Local Area Networks	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Local Area Networks	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	1,380

**REQUIREMENT DESCRIPTION**

Communications wiring in Room 215 and 218 is hanging from the ceiling without any support and or installed exposed around door frames and baseboard molding in violation of NFPA 70 (2005) Article 800.24.

**PHOTOS**



Communication Wiring - Improperly Installed - Room 215/218  
 Communication Wiring - Improperly Installed - Room 215/218

**ACTION DESCRIPTION**

Remove communication wiring drapped across the walls or along door frames and baseboard molding in Rooms 215 and 218 and provide proper installation of communication cables.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50309200102	Internet wiring, 2 data/voice outlets per 1000 S.F.	2.00	M.S.F.	690.24	1,380
				<b>Subtotal:</b>	1,380
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	1,380

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Communication Wiring - Improperly Installed - Room 317		
<b>Linked System</b>	Local Area Networks	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Local Area Networks	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	1,380

**REQUIREMENT DESCRIPTION**

Communications wiring in Room 317A/B/C is laying on the floor in violation of NFPA 70 (2005) Article 800.24.

**PHOTOS**



Communication Wiring - Improperly Installed - Room 317  
 Communication Wiring - Improperly Installed - Room 317

**ACTION DESCRIPTION**

Remove communication wiring from the floor in Rooms 317A/B/C and provide proper installation of communication cables.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50309200102	Internet wiring, 2 data/voice outlets per 1000 S.F.	2.00	M.S.F.	690.24	1,380
				<b>Subtotal:</b>	1,380
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	1,380

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Communication Wiring - Poor Installation - Room B31		
<b>Linked System</b>	Local Area Networks	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Local Area Networks	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	36,386

**REQUIREMENT DESCRIPTION**

Communications wiring in Room B31 is poorly installed with lack of proper supports in violation of NFPA 70 (2005) Articles 800.24, 300.4(D) and 300.11.

**PHOTOS**



Communication Wiring - Poor Installation - Room B31

Communication Wiring - Poor Installation - Room B31

**ACTION DESCRIPTION**

Provide proper installation of communication cables in Room B31. Remove all abandoned cables as applicable. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50309200110	Internet wiring, 8 data/voice outlets per 1000 S.F.	2.00	M.S.F.	2,574.63	5,149
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	8.00	Week	326.04	2,608
U160557000120	Fiber optic cable, electrical demolition, remove	5,000.00	L.F.	0.29	1,450
U160557000240	Telephone cable, electrical demolition, remove	5,000.00	L.F.	0.25	1,250

*All costs in USD.*



Requirement Detail Report

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U160557000320	High performance cable, 4 pair, electrical demolition, remove	5,000.00	L.F.	0.33	1,650
U160557000340	High performance cable, 25 pair, electrical demolition, remove	5,000.00	L.F.	0.77	3,850
U160557000400	Terminal cabinet, electrical demolition, remove	10.00	Ea.	137.80	1,378
U161311050400	Cable tray, ladder type, galvanized steel, 4" deep, 4" rung spacing, 18" wide, to 15' elevation, incl fittings & supports	500.00	L.F.	38.10	19,050
				<b>Subtotal:</b>	36,386
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	36,386

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Computer Room Cooling - DX w/Air Cooled Remote Condenser Renewal		
<b>Linked System</b>	Terminal and Package Units	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Terminal and Package Units	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	54,459

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Computer Room Cooling - DX w/Air Cooled Remote Condenser. System Description: The HVAC system includes a computer room cooling unit with an air cooled remote condenser. The Liebert under floor AC unit is located on the ground floor computer room 3B.

**PHOTOS**



Computer Room Cooling - DX w/Air Cooled Remote Condenser Renewal  
 Computer Room Cooling - DX w/Air Cooled Remote Condenser Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Computer Room Cooling - DX w/Air Cooled Remote Condenser Renewal	1.00	Ea.	54,459.29	54,459
				<b>Subtotal:</b>	54,459
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	54,459

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Computer Servers - Insufficient Working Space - Room 214		
<b>Linked System</b>	Local Area Networks	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Local Area Networks	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	99,973

**REQUIREMENT DESCRIPTION**

The computer servers located in the closet off of Room 214 are installed such that working space about the equipment is insufficient for personnel to service the equipment in violation of NFPA 70 (2005) Article 110.26.

**PHOTOS**



Computer Servers - Insufficient Working Space - Room 214  
 Computer Servers - Insufficient Working Space - Room 214

**ACTION DESCRIPTION**

Relocate the computer servers located in the closet off of Room 214 to a location that provides adequate space for proper servicing of the equipment. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AC10101241450	Wood partition, 5/8" fire rated gypsum board face, 1/4" sound deadening gypsum board, 2x4 @ 16" OC, 5/8" fire rated gypsum board opposite face, 1.5" fiberglass insulation	1,500.00	S.F.	7.69	11,535
AC10201168180	Labeled metal door/metal frame, mineral core, 1.5 hr, 20 ga full panel, 6'-0" x 7'-0", welded frame, 8-3/4"	1.00	Ea.	2,758.22	2,758

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
AD50309200110	Internet wiring, 8 data/voice outlets per 1000 S.F.	2.00	M.S.F.	2,574.63	5,149
U018401007140	Moving Equipment, remove and reset, 100' distance, no obstructions, assembly or leveling unless noted, storage rack, open, large	10.00	Ea.	148.16	1,482
U161367008320	Cabinet, double door, 72" H x 72" W x 24" D, NEMA 12, floor mounted	10.00	Ea.	3,858.21	38,582
U161367009000	Electronic rack enclosures, 72" H x 30" W x 36" D	10.00	Ea.	3,472.51	34,725
U161367009990	Pull boxes & cabinets, minimum labor/equipment charge	10.00	Job	344.49	3,445
U162706205230	Transformer handling, add to normal labor cost in restricted areas, approximately 1000 pounds, 150 kVA	2.00	Ea.	1,148.29	2,297
				<b>Subtotal:</b>	99,973
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	99,973

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Custodial/Utility Sinks Renewal		
<b>Linked System</b>	Plumbing Fixtures	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Plumbing Fixtures	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	44,711

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Custodial/Utility Sinks. System Description: The plumbing fixtures include wall hung CI and floor mounted custodial/utility sinks. Includes rough-in and faucet.

**PHOTOS**



Custodial/Utility Sinks Renewal  
 Custodial/Utility Sinks Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Custodial/Utility Sinks Renewal	1.00	Ea.	44,711.25	44,711
				<b>Subtotal:</b>	44,711
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	44,711

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Door Assembly - 3 x 7 HM - 1965 Renewal		
<b>Linked System</b>	Exterior Doors	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Doors	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	17,967

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Door Assembly - 3 x 7 HM - 1965. System Description: Exterior doors include 3 x 7 steel door and steel frame with hinges and lockset. Includes painted door and painted frame at storage areas below south steps, NE equipment access and dome barrel.

**PHOTOS**



Door Assembly - 3 x 7 HM - 1965 Renewal  
 Door Assembly - 3 x 7 HM - 1965 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Door Assembly - 3 x 7 HM - 1965 Renewal	1.00	Ea.	17,966.90	17,967
				<b>Subtotal:</b>	17,967
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	17,967

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Door Assembly - 5 x 7 Wood and Glass French Doors Renewal		
<b>Linked System</b>	Exterior Doors	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Doors	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	328,858

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Door Assembly - 5 x 7 Wood and Glass French Doors. System Description: The exterior French doors at all 2nd floor balconies include pr. of original construction, swinging glazed wood leafs plus glazed transom, ornamental wood frame and hardware.

Note: Replacement French doors shall respect historic nature of building.

**PHOTOS**



Door Assembly - 5 x 7 Wood and Glass French Doors Renewal  
 Door Assembly - 5 x 7 Wood and Glass French Doors Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Door Assembly - 5 x 7 Wood and Glass French Doors Renewal	1.00	Ea.	328,857.52	328,858
				<b>Subtotal:</b>	328,858
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	328,858

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Electrical Power Distribution - Computer Regulators Renewal		
<b>Linked System</b>	Low Tension Service and Dist.	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Low Tension Service and Dist.	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	47,090

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Electrical Power Distribution - Computer Regulators. System Description: There are three sets of computer regulating transformers in the building. One set is located in the electrical closet off of Room 313, one in Room 107B and the other set is located in Room 112C.

Note: During the 2010 assessment, it could not be determined what the regulators were connected to. The regulators are extremely loud and should be replaced as soon as possible or removed if no longer required.

**PHOTOS**



Electrical Power Distribution - Computer Regulators Renewal  
 Electrical Power Distribution - Computer Regulators Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Electrical Power Distribution - Computer Regulators Renewal	1.00	Ea.	47,090.18	47,090
				<b>Subtotal:</b>	47,090
				<b>Adjustment Factor:</b>	1.0000

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

**Total:** 47,090

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Emergency Lighting - Inadequate		
<b>Linked System</b>	Emergency Light and Power Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Emergency Light and Power Systems	<b>Finish Date</b>	-
<b>Category</b>	Life Safety	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	493,240

**REQUIREMENT DESCRIPTION**

Emergency lighting is not provided for all means of egress throughout the building in violation of NFPA 101 (2006) Section 7.9. Existing emergency lighting consists of a minimal number of aged low voltage units in various areas of the building. Per maintenance personnel, during power outages, emergency lighting is inadequate with many areas and floors left in the dark.

NOTE: This requirement should be mutually inclusive with the requirement titled "Emergency Lighting Renewal".

**PHOTOS**



Emergency Lighting - Inadequate  
 Emergency Lighting - Inadequate

**ACTION DESCRIPTION**

Provide additional emergency throughout the entire building as required. Engineering costs included to determine and provide proper layout. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102301240	Branch installation 600 V, including EMT conduit and THW wire, 20 A	12,500.00	L.F.	7.81	97,625
E015904000160M	Rent aerial lift to 25'high 2000 lb cap scissor type	6.00	Ea./month	1,499.62	8,998
RC30132100010	Repair acoustical tile - (2% of walls)	20.00	C.S.F.	532.02	10,640

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
RC30132140010	Repair 5/8" drywall - (2% of walls)	2,000.00	S.F.	2.71	5,420
U013107000140	Field personnel, field engineer, maximum	4.00	Week	2,474.20	9,897
U161366009000	Outlet boxes, minimum labor/equipment charge	250.00	Job	172.24	43,060
U165303200700	Emergency lighting units, nickel cadmium battery operated, twin sealed beam light, 25 W, 6 V each	250.00	Ea.	795.26	198,815
U165303200780	Emergency lighting units, additional remote mount, sealed beam, 25 W 6 V	250.00	Ea.	54.52	13,630
U165303200900	Fluorescent lamp pack, self-contained	250.00	Ea.	239.01	59,753
U165303203060	Solid state battery charger, 1 phase, 208/240/480V, 18 cell, incl wall bracket	16.00	Ea.	2,837.66	45,403
				<b>Subtotal:</b>	493,240
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	493,240

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Emergency Lighting Renewal		
<b>Linked System</b>	Emergency Light and Power Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Emergency Light and Power Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	58,666

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Emergency Lighting. System Description: Emergency lighting consists of an aged antiquated 32V system with a minimal number of wall mount light fixtures over several doorways and in corridors.

**PHOTOS**



Emergency Lighting Renewal  
 Emergency Lighting Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Emergency Lighting Renewal	1.00	Ea.	58,666.09	58,666
				<b>Subtotal:</b>	58,666
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	58,666

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Exhaust System - General Building Renewal		
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	525,526

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Exhaust System - General Building. System Description: The HVAC ventilation system includes roof-mounted and in-line exhaust fans with ducting.

**PHOTOS**



Exhaust System - General Building Renewal  
 Exhaust System - General Building Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Exhaust System - General Building Renewal	1.00	Ea.	525,525.69	525,526
				<b>Subtotal:</b>	525,526
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	525,526

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Exhaust System - Restroom Renewal		
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	15,210

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Exhaust System - Restroom. System Description: HVAC ventilation system includes roof-mounted restroom exhaust fans with ducting.

**PHOTOS**



Exhaust System - Restroom Renewal  
 Exhaust System - Restroom Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Exhaust System - Restroom Renewal	1.00	Ea.	15,209.53	15,210
				<b>Subtotal:</b>	15,210
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	15,210

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Exit Signs - Means of Egress Not Properly Marked - Ground Floor		
<b>Linked System</b>	Emergency Light and Power Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Emergency Light and Power Systems	<b>Finish Date</b>	-
<b>Category</b>	Life Safety	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	14,089

**REQUIREMENT DESCRIPTION**

The path of egress in the office space on the East end of the Ground Floor is not properly marked with exit signs in violation of NFPA 101 (2006) Article 7.10.1.1. Signs are missing and/or installed in inappropriate locations.

NOTE: This requirement should be mutually inclusive with requirement titled "Exit Signs Renewal".

**PHOTOS**



Exit Signs - Means of Egress Not Properly Marked - Ground Floor

Exit Signs - Means of Egress Not Properly Marked - Ground Floor

**ACTION DESCRIPTION**

Reconfigure the exit signage in the office spaces on the East end of the Ground Floor such that the means of egress is properly marked. Relocate existing signs and provide additional signs as required. Engineering costs included for design layout.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102301240	Branch installation 600 V, including EMT conduit and THW wire, 20 A	250.00	L.F.	7.81	1,953
E015904000150M	Rent aerial lift to 15'high 1000 lb cap scissor type	1.00	Ea./month	1,247.96	1,248
U013107000140	Field personnel, field engineer, maximum	1.00	Week	2,474.20	2,474

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U095107609000	Complete Suspended Ceilings, minimum labor/equipment charge	10.00	Job	348.48	3,485
U161366009000	Outlet boxes, minimum labor/equipment charge	10.00	Job	172.24	1,722
U165303200260	Exit lighting, L.E.D. w/ battery unit, double face, ceiling or wall mount	10.00	Ea.	320.68	3,207
				<b>Subtotal:</b>	14,089
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	14,089

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Fan Coil System - Cabinet - Heating/Cooling - 4 Pipe Renewal		
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	1,856,330

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Fan Coil System - Cabinet - Heating/Cooling - 4 Pipe. System Description: HVAC system includes perimeter wall hung cabinet type fan coil 4-pipe chilled water and heating water system.

**PHOTOS**



Fan Coil System - Cabinet - Heating/Cooling - 4 Pipe Renewal  
 Fan Coil System - Cabinet - Heating/Cooling - 4 Pipe Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Fan Coil System - Cabinet - Heating/Cooling - 4 Pipe Renewal	1.00	Ea.	1,856,329.77	1,856,330
				<b>Subtotal:</b>	1,856,330
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	1,856,330

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Fire Pump – Circuit Conductors Not Fire Rated		
<b>Linked System</b>	Emergency Light and Power Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Emergency Light and Power Systems	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	18,609

**REQUIREMENT DESCRIPTION**

Circuit conductors serving the fire pump appear to be improperly installed by being routed directly through the building without proper fire resistant ratings or protection in violation of NFPA 70 (2005) Article 695.6(B).

NOTE: As this installation was recently installed in 2000, wiring may qualify for an exception to the code section referenced. This could not be fully determined during the 2010 assessment. It is recommended the local authority having jurisdiction (AHJ) be consulted concerning this installation prior to implementing any Actions. If installation meets local fire codes and approval by local AHJ, this requirement should be deleted.

**PHOTOS**



Fire Pump – Circuit Conductors Not Fire Rated  
 Fire Pump – Circuit Conductors Not Fire Rated

**ACTION DESCRIPTION**

Replace conduit and wiring serving the fire pump with Type MI fire rated cable.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	1.00	Week	326.04	326

All costs in USD.

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U160553000100	Conduit, rigid galvanized steel, 1/2" to 1" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	200.00	L.F.	2.85	570
U160553001910	Wire, THW-THWN-THHN, 1/0, electrical demolition, removed from in place conduit, to 15' high	6.00	C.L.F.	41.50	249
U160553009000	Electrical demolition, minimum labor/equipment charge	5.00	Job	172.24	861
U161205001000	Mineral insulated cable, 1 conductor, 600 volt, 1/0	6.00	C.L.F.	2,368.40	14,210
U161205005000	Mineral insulated cable terminations, 1 conductor, 600 volt, 1/0	6.00	Ea.	164.34	986
U161205008800	Mineral insulated cable crimping tool, plier type	1.00	Ea.	63.38	63
U161205009000	Mineral insulated cable stripping tool	1.00	Ea.	238.37	238
U161205009200	Mineral insulated cable hand vise	1.00	Ea.	70.97	71
U161205009500	Mineral insulated cable, minimum labor/equipment charge	6.00	Job	172.24	1,033
				<b>Subtotal:</b>	18,609
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	18,609

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Floor Duct - Floor Raceway Outlets Improperly Located		
<b>Linked System</b>	Floor Raceway Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Floor Raceway Systems	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	57,800

**REQUIREMENT DESCRIPTION**

Floor duct outlets are improperly located in Room 318 such that extension cords duct taped to the floor are being used to connect equipment to outlets in violation of NFPA 70 (2005) Article 400.8(1).

**PHOTOS**



Floor Duct - Floor Raceway Outlets Improperly Located  
 Floor Duct - Floor Raceway Outlets Improperly Located

**ACTION DESCRIPTION**

Relocate floor duct outlets in Room 318 specifically, and other rooms as applicable such that outlets are located close or near utilization equipment as applicable. Reuse existing equipment to the extent possible. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50201150240	Receptacle systems, underfloor duct, 5' on center, high density	5,000.00	S.F.	11.56	57,800
				<b>Subtotal:</b>	57,800
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	57,800

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Fluorescent Lighting - Wired With Extension Cord - Room B60		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	1,091

**REQUIREMENT DESCRIPTION**

A fluorescent fixture in Room B60 is wired with extension cord in violation of NFPA 70 (2005) Article 400.8(1).

**PHOTOS**



Fluorescent Lighting - Wired With Extension Cord - Room B60  
 Fluorescent Lighting - Wired With Extension Cord - Room B60

**ACTION DESCRIPTION**

Remove the extension cord connecting the fluorescent fixture in Room B60 and provide proper wiring.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U160553009000	Electrical demolition, minimum labor/equipment charge	1.00	Job	172.24	172
U161209009000	Wire, minimum labor/equipment charge	1.00	Job	172.24	172
U161322059990	Conduit, to 15' high, minimum labor/equipment charge	1.00	Job	172.24	172
U161366009000	Outlet boxes, minimum labor/equipment charge	2.00	Job	172.24	344
U165104409000	Interior lighting fixtures, minimum labor/equip charge	1.00	Job	229.66	230
				<b>Subtotal:</b>	1,091
				<b>Adjustment Factor:</b>	1.0000

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

**Total:** 1,091

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Four Pipe Distribution System w/Pump Renewal		
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	5,571,893

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Four Pipe Distribution System w/Pump. System Description: HVAC distribution is provided by a four-pipe distribution system. This system provides heating hot water and chilled water to air handlers and terminal devices such as fan coil units and reheat coils.

**PHOTOS**



Four Pipe Distribution System w/Pump Renewal  
Four Pipe Distribution System w/Pump Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Four Pipe Distribution System w/Pump Renewal	1.00	Ea.	5,571,893.47	5,571,893
				<b>Subtotal:</b>	5,571,893
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	5,571,893

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Guardrails - Non-Compliant Heights - Rotunda - Third Floor		
<b>Linked System</b>	Stair Handrails and Balustrades	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Stair Handrails and Balustrades	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Arch	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	50,867

**REQUIREMENT DESCRIPTION**

According to 2009 IBC Section 1013 code compliant guardrails are required at all vertical drops that exceed 30 inches in height.

1013.1 Where required. Guards shall be located along open-sided walking surfaces, mezzanines, industrial equipment platforms, stairways, ramps and landings that are located more than 30 inches (762 mm) above the floor or grade below. Guards shall be adequate in strength and attachment in accordance with Section 1607.7. Where glass is used to provide a guard or as a portion of the guard system, the guard shall also comply with Section 2407. Guards shall also be located along glazed sides of stairways, ramps and landings that are located more than 30 inches (762 mm) above the floor or grade below where the glazing provided does not meet the strength and attachment requirements in Section 1607.7.

1013.2 Height. Guards shall form a protective barrier not less than 42 inches (1067 mm) high, measured vertically above the leading edge of the tread, adjacent walking surface or adjacent seatboard.

Metal guardrails facing central rotunda and galleries at third floor do not meet height requirements and present a potential fall hazard. Guardrails are original construction and thus historic in character. Historically sensitive repair is required.

**PHOTOS**



Guardrails - Non-Compliant Heights - Rotunda - Third Floor

Guardrails - Non-Compliant Heights - Rotunda - Third Floor

**ACTION DESCRIPTION**

Modify existing non-compliant guardrails to provide new code-compliant guardrails that respect historical character of original units. Recommend providing a new top rail at proper height on existing guardrail units.

Est. 7 guardrail units @ 8 LF each = 56 LF

*All costs in USD.*

**ESTIMATE**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
LCARPJ	Carpenters	80.00	hour	81.24	6,499
LSSWLJ	Welders, Structural Steel	40.00	hour	105.47	4,219
U055207000965	Railing, pipe, stainless steel, wall rail, mirror polish, 1-1/2" diam., shop fabricated	160.00	L.F.	240.97	38,555
U055207009000	Railing, pipe, steel, shop fabricated, minimum labor/equipment charge	3.00	Job	531.31	1,594
				<b>Subtotal:</b>	50,867
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	50,867

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Guardrails - Non-Compliant Heights - Rotunda and Stair Galleries - Second Floor		
<b>Linked System</b>	Stair Handrails and Balustrades	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Stair Handrails and Balustrades	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Arch	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	114,868

**REQUIREMENT DESCRIPTION**

According to 2009 IBC Section 1013 code compliant guardrails are required at all vertical drops that exceed 30 inches in height.

1013.1 Where required. Guards shall be located along open-sided walking surfaces, mezzanines, industrial equipment platforms, stairways, ramps and landings that are located more than 30 inches (762 mm) above the floor or grade below. Guards shall be adequate in strength and attachment in accordance with Section 1607.7. Where glass is used to provide a guard or as a portion of the guard system, the guard shall also comply with Section 2407. Guards shall also be located along glazed sides of stairways, ramps and landings that are located more than 30 inches (762 mm) above the floor or grade below where the glazing provided does not meet the strength and attachment requirements in Section 1607.7.

1013.2 Height. Guards shall form a protective barrier not less than 42 inches (1067 mm) high, measured vertically above the leading edge of the tread, adjacent walking surface or adjacent seatboard.

Marble guardrails facing both central rotunda and monumental stair galleries at second floor do not meet height requirements and present a potential fall hazard. Guardrails are original construction and thus historic in character. Historically sensitive repair is required.

**PHOTOS**



Guardrails - Non-Compliant Heights - Rotunda and Stair Galleries - Second Floor

Guardrails - Non-Compliant Heights - Rotunda and Stair Galleries - Second Floor

**ACTION DESCRIPTION**

Modify existing non-compliant guardrails to provide new code-compliant guardrails that respect historical character of original units. Recommend providing a new top rail at proper height on existing guardrail units.

Est. 7 guardrail units @ 8 LF each = 56 LF

*All costs in USD.*



ESTIMATE

Code	Description	Quantity	Unit	Unit Cost	Total Cost
LCARPJ	Carpenters	180.00	hour	81.24	14,623
LSSWLJ	Welders, Structural Steel	90.00	hour	105.47	9,492
U055207000965	Railing, pipe, stainless steel, wall rail, mirror polish, 1-1/2" diam., shop fabricated	370.00	L.F.	240.97	89,159
U055207009000	Railing, pipe, steel, shop fabricated, minimum labor/equipment charge	3.00	Job	531.31	1,594
				<b>Subtotal:</b>	114,868
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	114,868

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Guardrails - Non-Compliant Heights - Stair Galleries - First Floor		
<b>Linked System</b>	Stair Handrails and Balustrades	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Stair Handrails and Balustrades	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Arch	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	50,336

**REQUIREMENT DESCRIPTION**

According to 2009 IBC Section 1013 code compliant guardrails are required at all vertical drops that exceed 30 inches in height.

1013.1 Where required. Guards shall be located along open-sided walking surfaces, mezzanines, industrial equipment platforms, stairways, ramps and landings that are located more than 30 inches (762 mm) above the floor or grade below. Guards shall be adequate in strength and attachment in accordance with Section 1607.7. Where glass is used to provide a guard or as a portion of the guard system, the guard shall also comply with Section 2407. Guards shall also be located along glazed sides of stairways, ramps and landings that are located more than 30 inches (762 mm) above the floor or grade below where the glazing provided does not meet the strength and attachment requirements in Section 1607.7.

1013.2 Height. Guards shall form a protective barrier not less than 42 inches (1067 mm) high, measured vertically above the leading edge of the tread, adjacent walking surface or adjacent seatboard.

Metal guardrails facing monumental stair galleries at first floor do not meet height requirements and present a potential fall hazard. Guardrails are original construction and thus historic in character. Historically sensitive repair is required.

**PHOTOS**



Guardrails - Non-Compliant Heights - Stair Galleries - First Floor

Guardrails - Non-Compliant Heights - Stair Galleries - First Floor

**ACTION DESCRIPTION**

Modify existing non-compliant guardrails to provide new code-compliant guardrails that respect historical character of original units. Recommend providing a new top rail at proper height on existing guardrail units.

Est. 7 guardrail units @ 8 LF each = 56 LF

*All costs in USD.*

**ESTIMATE**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
LCARPJ	Carpenters	80.00	hour	81.24	6,499
LSSWLJ	Welders, Structural Steel	40.00	hour	105.47	4,219
U055207000965	Railing, pipe, stainless steel, wall rail, mirror polish, 1-1/2" diam., shop fabricated	160.00	L.F.	240.97	38,555
U055207009000	Railing, pipe, steel, shop fabricated, minimum labor/equipment charge	2.00	Job	531.31	1,063
				<b>Subtotal:</b>	50,336
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	50,336

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Heat Exchanger - Liquid/Liquid - Plate and Frame Renewal		
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	621,022

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Heat Exchanger - Liquid/Liquid - Plate and Frame. System Description: Heating hot water is provided by a primary heat exchanger which takes heated water from "District Energy" and uses it to produce heating hot water for the building. This water is then used to provide heating hot water for air handling units and reheat units as well as domestic hot water (via separate heat exchangers from the ones in this system).

**PHOTOS**



Heat Exchanger - Liquid/Liquid - Plate and Frame Renewal  
Heat Exchanger - Liquid/Liquid - Plate and Frame Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Heat Exchanger - Liquid/Liquid - Plate and Frame Renewal	1.00	Ea.	621,021.83	621,022
				<b>Subtotal:</b>	621,022
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	621,022

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Heat Pump - Split DX - 1995 Renewal		
<b>Linked System</b>	Terminal and Package Units	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Terminal and Package Units	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	18,230

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Heat Pump - Split DX - 1995. System Description: The HVAC system includes a number of split DX heat pumps, typically used to provide supplemental cooling to specific areas like tel/data rooms. This system is specifically for the 4 units that were installed in the mid-1990's.

**PHOTOS**



Heat Pump - Split DX - 1995 Renewal  
Heat Pump - Split DX - 1995 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Heat Pump - Split DX - 1995 Renewal	1.00	Ea.	18,229.60	18,230
				<b>Subtotal:</b>	18,230
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	18,230

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Hydraulic Passenger Elevator Renewal		
<b>Linked System</b>	Elevators and Lifts	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Elevators and Lifts	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	76,752

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Hydraulic Passenger Elevator. System Description: The conveying equipment includes a passenger hydraulic elevator. This elevator serves two floors of the the governor's office, and has a capacity of 1,200 lb.

**PHOTOS**



Hydraulic Passenger Elevator Renewal  
Hydraulic Passenger Elevator Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Hydraulic Passenger Elevator Renewal	1.00	Ea.	76,751.50	76,752
				<b>Subtotal:</b>	76,752
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	76,752

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Interior Lighting - Quartz Wall Sconces Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	762,685

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Interior Lighting - Quartz Wall Sconces. System Description: Brass wall sconces are installed throughout most corridors, around the Rotunda on all levels and in the Supreme Court. Luminaires utilize 300W quartz lamps and provide accent uplighting throughout. The sconces are wired and connected with mineral insulated (MI) cable.

**PHOTOS**



Interior Lighting - Quartz Wall Sconces Renewal

Interior Lighting - Quartz Wall Sconces Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Interior Lighting - Quartz Wall Sconces Renewal	1.00	Ea.	762,685.30	762,685
				<b>Subtotal:</b>	762,685
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	762,685

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Lighting Dimming Systems - Supreme Court - Located in Stairwell		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Life Safety	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	216,384

**REQUIREMENT DESCRIPTION**

The lighting dimming control board serving the Supreme Court is aged and beyond its rated life. The board is old technology and replacement parts are becoming obsolete. The control panel is also located in the stairwell on the NE corner of the third floor in violation of NFPA 101 (2006) Section 7.1.3.2.3.

**PHOTOS**



Lighting Dimming Systems - Supreme Court - Located in Stairwell  
 Lighting Dimming Systems - Supreme Court - Located in Stairwell

**ACTION DESCRIPTION**

Replace the Supreme Court lighting dimming control panel. Install new controller is proper location such that it is not located in the stairwell. Reroute all conduit and wiring as applicable. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102301240	Branch installation 600 V, including EMT conduit and THW wire, 20 A	1,000.00	L.F.	7.81	7,810
AD50102301320	Branch installation 600 V, including EMT conduit and THW wire, 50 A	1,000.00	L.F.	12.38	12,380
AD50102301440	Branch installation 600 V, including EMT conduit and THW wire, 100 A	100.00	L.F.	20.19	2,019

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	4.00	Week	326.04	1,304
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	25.00	Job	348.48	8,712
U110636000150	Stage equipment, control boards with dimmers & breakers, maximum	1.00	Ea.	141,901.84	141,902
U160553009000	Electrical demolition, minimum labor/equipment charge	100.00	Job	172.24	17,224
U161209009000	Wire, minimum labor/equipment charge	100.00	Job	172.24	17,224
U161367000240	Pull boxes, sheet metal, type SC, 18" W x 18" H x 4" D, NEMA 1	25.00	Ea.	220.51	5,513
U162706205230	Transformer handling, add to normal labor cost in restricted areas, approximately 1000 pounds, 150 kVA	2.00	Ea.	1,148.29	2,297
				<b>Subtotal:</b>	216,384
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	216,384

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Lighting and Branch Wiring - Beyond Rated Life - Room G21A		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	21,675

**REQUIREMENT DESCRIPTION**

Fluorescent lighting in Room G21A is beyond its rated life in accordance with BOMA (2003) recommendations. The fixtures are extremely aged and deteriorated. In addition, other branch wiring in Room G21A is also aged and should be replaced.

**PHOTOS**



Lighting and Branch Wiring - Beyond Rated Life - Room G21A

Lighting and Branch Wiring - Beyond Rated Life - Room G21A

**ACTION DESCRIPTION**

Replace the fluorescent lighting in Room G21A including additional aged branch wiring equipment and devices.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50201200920	Receptacles and wall switches, 1000 SF, 14 receptacles	1,000.00	S.F.	3.49	3,490
AD50201200960	Receptacles and wall switches, 1000 SF, 2 switches	1,000.00	S.F.	0.51	510
AD50201650360	Safety switch, 30 A fused, 3 phase, 15 HP, 460 V or 20 HP, 575 V	4.00	Ea.	659.26	2,637
AD50202100520	Fluorescent fixtures recess mounted in ceiling, 1.6 watt per SF, 40 FC, 10 fixtures @32watt per 1000 SF	1,000.00	S.F.	5.65	5,650

*All costs in USD.*

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	4.00	Week	326.04	1,304
U160553000200	Conduit, electric metallic tubing (EMT), 1/2" to 1" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	1,000.00	L.F.	1.75	1,750
U160553001100	Safety switches, 250 or 600 V, 30 amp, electrical demolition, remove, incl disconnection	4.00	Ea.	56.01	224
U160553001640	Pull boxes & cabinets, sheet metal, 6" x 6" x 4", electrical demolition, remove, incl removal of supports and terminations	25.00	Ea.	22.15	554
U160553001760	Switch boxes, electrical demolition, remove, incl removal of supports and terminations	25.00	Ea.	6.44	161
U160553001780	Receptacle & switch plates, electrical demolition, remove	25.00	Ea.	2.68	67
U160553001790	Receptacle & switches, 15 to 30 amp, electrical demolition, remove	25.00	Ea.	5.10	128
U160553001840	Wire, THW-THWN-THHN, #12, electrical demolition, removed from in place conduit, to 15' high	40.00	C.L.F.	12.53	501
U160553002420	Fluorescent fixtures, interior, industrial, 2 lamp, 4' long, electrical demolition, remove, pendant mount, to 15' high, incl removal of chain or rod hanger	10.00	Ea.	39.37	394
U160553009000	Electrical demolition, minimum labor/equipment charge	25.00	Job	172.24	4,306
				<b>Subtotal:</b>	21,675
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	21,675

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Local Area Networks – Communications Wiring Improperly Supported - Attic		
<b>Linked System</b>	Local Area Networks	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Local Area Networks	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	57,150

**REQUIREMENT DESCRIPTION**

Communications wiring including telephone and local area network circuits is installed through the attic space surrounding the main dome without proper support. Many cables are loosely installed without any support in violation of NFPA 70 (2005) Article 800.24, or supported via straps or tape to other mechanical or electrical conduits in violation of Article 800.133(C).

**PHOTOS**



Local Area Networks – Communications Wiring Improperly Supported - Attic  
 Local Area Networks – Communications Wiring Improperly Supported - Attic

**ACTION DESCRIPTION**

Provide a complete cable tray infrastructure system throughout the attic space around the main dome for all communication wiring. Installation shall include cable tray and fittings, approved hook type hangers and conduits as required. Unit count is for budget purposes only. Actual count may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U161311050400	Cable tray, ladder type, galvanized steel, 4" deep, 4" rung spacing, 18" wide, to 15' elevation, incl fittings & supports	1,500.00	L.F.	38.10	57,150
				<b>Subtotal:</b>	57,150
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	57,150

All costs in USD.



*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Local Area Networks – Communications Wiring Improperly Supported - Basement Corridor		
<b>Linked System</b>	Local Area Networks	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Local Area Networks	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	114,300

**REQUIREMENT DESCRIPTION**

Communications wiring including telephone and local area network circuits is installed along the main corridor in the Basement without proper support. Many cables are loosely installed without any support in violation of NFPA 70 (2005) Article 800.24, or supported via straps or tape to other mechanical or electrical conduits in violation of Article 800.133(C). Additional locations identified during the 2010 assessment include Room B59B and B22C.

**PHOTOS**



Local Area Networks – Communications Wiring Improperly Supported - Basement Corridor  
 Local Area Networks – Communications Wiring Improperly Supported - Basement Corridor

**ACTION DESCRIPTION**

Provide a complete cable tray infrastructure system throughout the basement corridor for all communication wiring. Installation shall include cable tray and fittings, approved hook type hangers and conduits as required. Unit count is for budget purposes only. Actual count may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U161311050400	Cable tray, ladder type, galvanized steel, 4" deep, 4" rung spacing, 18" wide, to 15' elevation, incl fittings & supports	3,000.00	L.F.	38.10	114,300
				<b>Subtotal:</b>	114,300
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	114,300

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Marble Veneer Walls and Ornate Trim - Main Building Renewal		
<b>Linked System</b>	Exterior Walls	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Walls	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	5,193,830

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Marble Veneer Walls and Ornate Trim - Main Building. System Description: The exterior walls and decorative trim elements at main building (1st-4th floor plus roof) are of high quality, high cost marble with massive stone, masonry, concrete masonry unit (CMU) or cast-in-place (CIP) concrete backup wall system. Includes statuary, belts, roof rail balusters and other ornate architectural trim elements. System life extended by renovation work.

Note: Some immediate renewal work is required to eliminate possibility of pieces of stone breaking away and falling to the ground and injuring a passing citizen. Coordinate system renewal with other Owner initiated studies that identify and prioritize potential immediate hazards.

**PHOTOS**



Marble Veneer Walls and Ornate Trim - Main Building Renewal  
 Marble Veneer Walls and Ornate Trim - Main Building Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Marble Veneer Walls and Ornate Trim - Main Building Renewal	1.00	Ea.	5,193,830.07	5,193,830
				<b>Subtotal:</b>	5,193,830

All costs in USD.



*Requirement Detail Report*

**By Asset Name and Priority**

**Adjustment Factor:** 1.0000  
**Total:** 5,193,830

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Marble Veneer Walls and Ornate Trim - Record Study		
<b>Linked System</b>	Exterior Walls	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Walls	<b>Finish Date</b>	-
<b>Category</b>	Appearance	<b>Status</b>	In Project
<b>Inspector</b>	Arch	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	279,907

**REQUIREMENT DESCRIPTION**

Exterior ornate marble trim elements at both main building and dome barrel as well as other exterior locations are showing marked deterioration from age, elements, acid rain, other environmental pollutants, etc. These exterior elements are irreplaceable state treasures and with the passage of time it will become even more difficult to replace, repair or reproduce them.

Many, if not most of these elements (statuary, quoins, belts, window trim, columns and capitals, etc.) are 2-3 floors or more above finish grade and thus difficult to accurately inventory. Plans should be undertaken to develop a 3D laser imagery database of all exterior marble details and trim so accurate reproductions can be made and the visual integrity of the entire building maintained.

**PHOTOS**



Marble Veneer Walls and Ornate Trim - Record Study  
 Marble Veneer Walls and Ornate Trim - Record Study

**ACTION DESCRIPTION**

Provide a comprehensive 3D laser imagery inventory of all exterior marble trim elements and note existing conditions of same.

Maintain database developed by this inventory to assist in future marble restoration efforts.

Note: Costs are rough estimate of professional effort required to develop a scope of work for this requirement.

**ESTIMATE**

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
E015906000120C	Lifting and hoisting equipment rental; aerial lift truck, 2 pers, 80'	40.00	Ea./day	782.53	31,301
NU 011073004040	Consultant, large building, using DOE software energy analysis, minimum	374,984.00	SF Flr.	0.05	18,749
U013107000120	Field personnel, field engineer, average	16.00	Week	2,168.40	34,694
U013107000140	Field personnel, field engineer, maximum	16.00	Week	2,474.20	39,587
U013215001720	Construction photographs, cameraman and film, incl. processing, color	80.00	Day	1,536.70	122,936
U015407800710	Swing staging, lightweight (not for masons), powered (electric or air), rent/mo, 150' height, 2' wide x 24' long	4.00	Ea.	1,044.96	4,180
U015407802200	Swing staging, move swing staging (setup, move and remove)	16.00	Move	1,778.68	28,459
				<b>Subtotal:</b>	279,907
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	279,907

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Panelboards – Inadequate Working Space - Basement		
<b>Linked System</b>	Low Tension Service and Dist.	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Low Tension Service and Dist.	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	1,743

**REQUIREMENT DESCRIPTION**

Electrical Room B1-P (Security) and the electrical room in the Kitchen are being used for storage such that sufficient access and working space is not maintained about electrical equipment to permit ready and safe operation and maintenance of the electrical equipment in violation of NFPA 70 (2005) Article 110.26.

**PHOTOS**



Panelboards – Inadequate Working Space - Basement  
 Panelboards – Inadequate Working Space - Basement

**ACTION DESCRIPTION**

Remove all stored equipment and/or materials from the Electrical Room B1-P (Security) and the electrical room in the Kitchen such that proper working space is maintained at electrical equipment to permit ready and safe operation and maintenance of the equipment.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
LCLABJ	Common Building Laborers	8.00	hour	64.82	519
LELECJ	Electricians	8.00	hour	91.64	733
LHELPJ	Helpers Average (5 trades)	8.00	hour	61.38	491
				<b>Subtotal:</b>	1,743
				<b>Adjustment Factor:</b>	1.0000

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

**Total:** 1,743

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Panelboards – Inadequate Working Space - Second Floor		
<b>Linked System</b>	Low Tension Service and Dist.	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Low Tension Service and Dist.	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2011	<b>Estimated Cost</b>	3,485

**REQUIREMENT DESCRIPTION**

The electrical rooms 211B, 217D, 214A1 and 214A2 are being used for storage such that sufficient access and working space is not maintained about electrical equipment to permit ready and safe operation and maintenance of the electrical equipment in violation of NFPA 70 (2005) Article 110.26.

**PHOTOS**



Panelboards – Inadequate Working Space - Second Floor  
 Panelboards – Inadequate Working Space - Second Floor

**ACTION DESCRIPTION**

Remove all stored equipment and/or materials from Electrical Rooms 211B, 214A1 and 214A2 such that proper working space is maintained at electrical equipment to permit ready and safe operation and maintenance of the equipment.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
LCLABJ	Common Building Laborers	16.00	hour	64.82	1,037
LELECEJ	Electricians	16.00	hour	91.64	1,466
LHELPEJ	Helpers Average (5 trades)	16.00	hour	61.38	982
				<b>Subtotal:</b>	3,485
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	3,485

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Perimeter Heat System - Hydronic Fin Tube Renewal		
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	522,564

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Perimeter Heat System - Hydronic Fin Tube. System Description: HVAC distribution includes a two-pipe system of heating hot water, with perimeter units. These units are found primarily on the second floor perimeter offices beneath the doors and windows.

**PHOTOS**



Perimeter Heat System - Hydronic Fin Tube Renewal  
 Perimeter Heat System - Hydronic Fin Tube Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Perimeter Heat System - Hydronic Fin Tube Renewal	1.00	Ea.	522,564.13	522,564
				<b>Subtotal:</b>	522,564
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	522,564

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Rain Water Drainage - Site System Renewal		
<b>Linked System</b>	Rain Water Drainage	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Rain Water Drainage	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	21,171

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Rain Water Drainage - Site System. System Description: The building includes a rain water drainage system, of cast iron piping, with gravity discharge to the municipal system. This system is specifically for the piping from the building to the municipal system.

**PHOTOS**

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Rain Water Drainage - Site System Renewal	1.00	Ea.	21,171.19	21,171
				<b>Subtotal:</b>	21,171
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	21,171

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Restroom Fixtures Renewal	
<b>Linked System</b>	Plumbing Fixtures	<b>Inspection Date</b> 11/08/2010
<b>Prime System</b>	Plumbing Fixtures	<b>Finish Date</b> -
<b>Category</b>	Beyond Useful Life	<b>Status</b> Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b> 0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b> 312,526

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Restroom Fixtures. System Description: The restroom fixtures include vitreous china urinals, water closets, and lavatories. There are also two tile shower units in the basement.

**PHOTOS**



Restroom Fixtures Renewal  
 Restroom Fixtures Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Restroom Fixtures Renewal	1.00	Ea.	312,525.52	312,526
				<b>Subtotal:</b>	312,526
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	312,526

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Return Air Ductwork and Fan Renewal		
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	4,254,138

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Return Air Ductwork and Fan. System Description: The HVAC system has return air ductwork and centrifugal and axial in-line return air fans. These fans return air back to the air handling units.

**PHOTOS**



Return Air Ductwork and Fan Renewal  
Return Air Ductwork and Fan Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Return Air Ductwork and Fan Renewal	1.00	Ea.	4,254,138.26	4,254,138
				<b>Subtotal:</b>	4,254,138
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	4,254,138

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Roof Drainage - Gravity Renewal		
<b>Linked System</b>	Rain Water Drainage	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Rain Water Drainage	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	831,010

### REQUIREMENT DESCRIPTION

Auto generated renewal requirement for Roof Drainage - Gravity. System Description: Rain water drainage includes interior piping, roof drains and 4-inch discharge piping by gravity flow to a municipal main.

### PHOTOS



Roof Drainage - Gravity Renewal

Roof Drainage - Gravity Renewal

### ACTION DESCRIPTION

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

### ESTIMATE

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Roof Drainage - Gravity Renewal	1.00	Ea.	831,010.25	831,010
				<b>Subtotal:</b>	831,010
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	831,010

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Sanitary Waste - Gravity Disch Renewal		
<b>Linked System</b>	Sanitary Waste	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Sanitary Waste	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	1,038,221

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Sanitary Waste - Gravity Disch. System Description: The building includes a sanitary waste system, of cast iron piping, with gravity discharge to the municipal system.

**PHOTOS**



Sanitary Waste - Gravity Disch Renewal  
Sanitary Waste - Gravity Disch Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Sanitary Waste - Gravity Disch Renewal	1.00	Ea.	1,038,221.48	1,038,221
				<b>Subtotal:</b>	1,038,221
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	1,038,221

All costs in USD.



**Requirement Detail Report**

**By Asset Name and Priority**

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Sanitary Waste - Site System Renewal		
<b>Linked System</b>	Sanitary Waste	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Sanitary Waste	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	23,281

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Sanitary Waste - Site System. System Description: The building includes a sanitary waste system, of cast iron piping, with gravity discharge to the municipal system. This system is specifically for the piping from the building to the municipal system.

**PHOTOS**

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Sanitary Waste - Site System Renewal	1.00	Ea.	23,281.05	23,281
				<b>Subtotal:</b>	23,281
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	23,281

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Sump Pump - Submersible Renewal		
<b>Linked System</b>	Plumbing	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Plumbing	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	11,065

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Sump Pump - Submersible. System Description: The water drainage system includes a sump 1/2 HP submersible pump. Note: available Means cost line items for alarm system selected for budgetary purposes only.

**PHOTOS**



Sump Pump - Submersible Renewal  
Sump Pump - Submersible Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Sump Pump - Submersible Renewal	1.00	Ea.	11,065.06	11,065
				<b>Subtotal:</b>	11,065
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	11,065

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Unit Heaters - Electric Renewal		
<b>Linked System</b>	Terminal and Package Units	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Terminal and Package Units	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	58,297

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Unit Heaters - Electric. System Description: Heating is provided by suspended, electric unit heaters. These are located in electrical rooms and service areas that do not have access to heating hot water.

**PHOTOS**



Unit Heaters - Electric Renewal  
Unit Heaters - Electric Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Unit Heaters - Electric Renewal	1.00	Ea.	58,296.90	58,297
				<b>Subtotal:</b>	58,297
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	58,297

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Unit Heaters - Hot Water Renewal		
<b>Linked System</b>	Terminal and Package Units	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Terminal and Package Units	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	90,112

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Unit Heaters - Hot Water. System Description: Heating is provided by suspended, forced hot water unit heaters. These are found typically in service areas and mechanical rooms.

**PHOTOS**



Unit Heaters - Hot Water Renewal  
Unit Heaters - Hot Water Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Unit Heaters - Hot Water Renewal	1.00	Ea.	90,112.33	90,112
				<b>Subtotal:</b>	90,112
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	90,112

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Water Dist Complete Renewal	<b>Inspection Date</b>	11/08/2010
<b>Linked System</b>	Domestic Water Distribution	<b>Finish Date</b>	-
<b>Prime System</b>	Domestic Water Distribution	<b>Status</b>	Open
<b>Category</b>	Beyond Useful Life	<b>Actual Cost</b>	0
<b>Inspector</b>	System Renewal	<b>Estimated Cost</b>	881,545
<b>Action Date</b>	11/08/2010		

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Water Dist Complete. System Description: The building domestic water distribution system includes two 3 inch main lines, water meters, double check backflow preventers, with rough ins included. This system does not include a water heater.

**PHOTOS**



Water Dist Complete Renewal  
Water Dist Complete Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Water Dist Complete Renewal	1.00	Ea.	881,544.91	881,545
				<b>Subtotal:</b>	881,545
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	881,545

All costs in USD.



**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Water Dist. - Site System Renewal		
<b>Linked System</b>	Domestic Water Distribution	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Domestic Water Distribution	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	19,752

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Water Dist. - Site System. System Description: The building domestic water distribution system includes two 3 inch main lines. This system is specifically for the supply lines to the building from the municipal water supply.

**PHOTOS**

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Water Dist. - Site System Renewal	1.00	Ea.	19,752.02	19,752
				<b>Subtotal:</b>	19,752
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	19,752

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Water Heater - Domestic Hot Water Heat Exchangers Renewal		
<b>Linked System</b>	Domestic Water Distribution	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Domestic Water Distribution	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	102,701

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Water Heater - Domestic Hot Water Heat Exchangers. System Description: Domestic hot water is produced from heating hot water that is circulated through two plate and frame heat exchangers to produce domestic hot water.

**PHOTOS**



Water Heater - Domestic Hot Water Heat Exchangers Renewal  
 Water Heater - Domestic Hot Water Heat Exchangers Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Water Heater - Domestic Hot Water Heat Exchangers Renewal	1.00	Ea.	102,700.50	102,701
				<b>Subtotal:</b>	102,701
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	102,701

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Water Heater - Hot Water Heat Exchanger and Storage Tank Renewal		
<b>Linked System</b>	Domestic Water Distribution	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Domestic Water Distribution	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	82,454

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Water Heater - Hot Water Heat Exchanger and Storage Tank. System Description: The domestic hot water is provided by a 120 gallon domestic water storage tank. The domestic hot water is created using a plate and frame heat exchanger and includes circulating pumps. This system is specifically for the cafe dishwasher.

Note: An exact match for this item was not available in RS Means. Similar components have been selected for budgetary purposes.

**PHOTOS**



Water Heater - Hot Water Heat Exchanger and Storage Tank Renewal  
 Water Heater - Hot Water Heat Exchanger and Storage Tank Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Water Heater - Hot Water Heat Exchanger and Storage Tank Renewal	1.00	Ea.	82,454.28	82,454
				<b>Subtotal:</b>	82,454
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	82,454

All costs in USD.



*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Wood Windows - Main Building Renewal		
<b>Linked System</b>	Exterior Windows	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Windows	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	28,173

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Wood Windows - Main Building. System Description: The building includes fixed and operable wood framed exterior units with insulating and/or ballistics glass at Governor's office and Attorney General's office. Includes interior wood trim.

Note: Replacement windows shall respect historic nature of building.

**PHOTOS**



Wood Windows - Main Building Renewal  
Wood Windows - Main Building Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Wood Windows - Main Building Renewal	1.00	Ea.	28,173.10	28,173
				<b>Subtotal:</b>	28,173
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	28,173

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 1- Currently Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Work and Exam Stations - Wall Sink Renewal		
<b>Linked System</b>	Plumbing Fixtures	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Plumbing Fixtures	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2010	<b>Estimated Cost</b>	7,025

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Work and Exam Stations - Wall Sink. System Description: The plumbing fixtures include wall mounted stainless steel lavatories. These are located in the kitchen area for hand washing.

Note: exact match for the style of sink used not available in RS Means. Similar items have been selected for budgetary purposes.

**PHOTOS**



Work and Exam Stations - Wall Sink Renewal  
 Work and Exam Stations - Wall Sink Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Work and Exam Stations - Wall Sink Renewal	1.00	Ea.	7,024.84	7,025
				<b>Subtotal:</b>	7,025
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	7,025

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Crystal Chandeliers - Type W Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	83,296

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Crystal Chandeliers - Type W. System Description: Antique crystal chandeliers are installed in the Governors Sitting Room. Similiar crystal luminaires (not chandeliers) are installed in the Senate Retiring Room.

"The chandeliers are 106 years old and it is expected to last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. Observed years remaining has been increased slightly but sockets and wiring needs to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$275.00 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. The fixtures are identified as Type W on the original purchase order. Actual historical assessed value may vary. Percent renewal increased due to historical value.

**PHOTOS**



Antique Lighting - Crystal Chandeliers - Type W Renewal  
 Antique Lighting - Crystal Chandeliers - Type W Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Crystal Chandeliers - Type W Renewal	1.00	Ea.	83,295.93	83,296
				<b>Subtotal:</b>	83,296
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	83,296

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Faux Brass Composite Accent Lights - Type AA Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	103,695

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Faux Brass Composite Accent Lights - Type AA. System Description: Antique accent uplights are installed in the House Chamber. Luminaires are configured with three lamp sockets per fixture. The fixture bodies are a faux brass cast composite mold consisting of plaster, wood chips and horse hair. Three metal reflectors were added in 1968.

"Fixture bodies are 106 years old and it is expected they will last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. The fixtures are in good working order for their age due to diligent maintenance. Observed years remaining have been increased slightly but fixtures need to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$285.53 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Fixtures are identified as Type AA on the original purchase order. Actual historical assessed value may vary. Percent Renewal Increased due to Historical Value.

**PHOTOS**



Antique Lighting - Faux Brass Composite Accent Lights - Type AA Renewal  
 Antique Lighting - Faux Brass Composite Accent Lights - Type AA Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Faux Brass Composite Accent Lights - Type AA Renewal	1.00	Ea.	103,694.94	103,695
				<b>Subtotal:</b>	103,695
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	103,695

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Faux Brass Composite Chandeliers - Type V4 Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	78,734

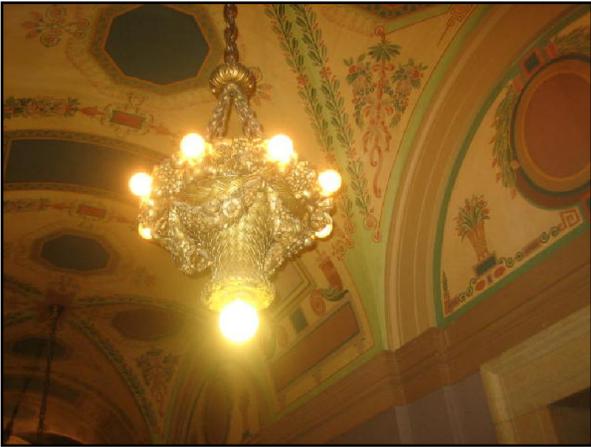
**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Faux Brass Composite Chandeliers - Type V4. System Description: Antique chandeliers are installed on the first floor adjacent to the grand stairwells. Luminaires are configured with ten lamp sockets per fixture. The chandelier body is a faux brass composite mold consisting of plaster, wood chips and horse hair.

"Fixture bodies are 106 years old and it is expected they will last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. The fixtures are in good working order for their age due to diligent maintenance. Observed years remaining have been increased slightly but fixtures need to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$100.00 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Fixtures are identified as Type V4 on the original purchase order. Actual historical assessed value may vary. Percent renewal increased due to historical value.

**PHOTOS**



Antique Lighting - Faux Brass Composite Chandeliers - Type V4 Renewal  
 Antique Lighting - Faux Brass Composite Chandeliers - Type V4 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

*All costs in USD.*



Requirement Detail Report

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Faux Brass Composite Chandeliers - Type V4 Renewal	1.00	Ea.	78,734.25	78,734
				<b>Subtotal:</b>	78,734
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	78,734

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Faux Brass Composite Rosettes - Type N Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	628,356

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Faux Brass Composite Rosettes - Type N. System Description: Antique rosettes are installed in the Ground Floor and Second Floor corridors and vestibules, House Chamber and Senate Chamber. Luminaires are configured with nine lamp sockets with Edison type incandescent lamps per fixture. Fixture bodies are a faux brass cast composite consisting of plaster, wood chips and horse hair.

"Fixture bodies are 106 years old and it is expected they will last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. The fixtures are in good working order for their age due to diligent maintenance. Observed years remaining have been increased slightly but fixtures need to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$49.53 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Fixtures are identified as Type N on the original purchase order. Actual historical assessed value may vary. Percent renewal increased due to historical value.

**PHOTOS**



Antique Lighting - Faux Brass Composite Rosettes - Type N Renewal  
 Antique Lighting - Faux Brass Composite Rosettes - Type N Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Faux Brass Composite Rosettes - Type N Renewal	1.00	Ea.	628,356.36	628,356
				<b>Subtotal:</b>	628,356
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	628,356

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Faux Brass Composite Wall Fixture - Type EE Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	38,088

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Faux Brass Composite Wall Fixture - Type EE. System Description: Antique wall fixtures are installed in the House Retiring Room. Luminaires are configured with three lamp sockets with candle type incandescent lamps per fixture. Fixture bodies are a faux brass cast composite consisting of plaster, wood chips and horse hair.

"Fixture bodies are 106 years old and it is expected they will last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. The fixtures are in good working order for their age due to diligent maintenance. Observed years remaining have been increased slightly but fixtures need to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$75.00 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Fixtures are identified as Type EE on the original purchase order. Actual historical assessed value may vary. Percent renewal increased due to historical value.

**PHOTOS**



Antique Lighting - Faux Brass Composite Wall Fixture - Type EE Renewal  
 Antique Lighting - Faux Brass Composite Wall Fixture - Type EE Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Faux Brass Composite Wall Fixture - Type EE Renewal	1.00	Ea.	38,087.63	38,088
				<b>Subtotal:</b>	38,088
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	38,088

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Faux Brass Composite Wall Fixture - Type GG Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	55,429

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Faux Brass Composite Wall Fixture - Type GG. System Description: Antique wall fixtures are installed in the House and Senate Chambers. Luminaires are configured with six lamp sockets per fixture. The fixture bodies are a faux brass cast composite mold consisting of plaster, wood chips and horse hair.

"Fixture bodies are 106 years old and it is expected they will last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. The fixtures are in good working order for their age due to diligent maintenance. Observed years remaining have been increased slightly but fixtures need to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$68.07 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Fixtures are identified as Type GG on the original purchase order. Actual historical assessed value may vary. Percent Renewal Increased due to Historical Value.

**PHOTOS**



Antique Lighting - Faux Brass Composite Wall Fixture - Type GG Renewal  
 Antique Lighting - Faux Brass Composite Wall Fixture - Type GG Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Faux Brass Composite Wall Fixture - Type GG Renewal	1.00	Ea.	55,428.64	55,429
				<b>Subtotal:</b>	55,429
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	55,429

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Main Crystal Chandelier Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	154,398

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Main Crystal Chandelier. System Description: The main crystal chandelier is approximately 6 feet in diameter and weighs 2500 lbs including 20 feet of chain. There are 40,000 crystal beads strung on solid nickel wire and ninety two 75W incandescent lamps. The chandelier is raised and lowered via an electric wench (Included under separate system) located above the Rotunda ceiling.

"The main chandelier is 106 years old and it is expected to last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. During the 2010 assessment, the chandelier was in the process of being cleaned and relamped. Observed years remaining has been increased slightly but sockets and wiring needs to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$1250.00 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Actual historical assessed value may vary. Percent renewal increased due to historical value.

(An unofficial historical assessment in 1979 estimated the price at \$250,000)

**PHOTOS**



Antique Lighting - Main Crystal Chandelier Renewal

Antique Lighting - Main Crystal Chandelier Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Main Crystal Chandelier Renewal	1.00	Ea.	154,398.27	154,398
				<b>Subtotal:</b>	154,398
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	154,398

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Solid Bronze Rosettes - Type DD Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	15,207

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Solid Bronze Rosettes - Type DD. System Description: Antique solid bronze rosettes are installed in the House Retiring Room. Luminaires are configured with four lamp sockets with candle type incandescent lamps per fixture.

"Fixture bodies are 106 years old and it is expected they will last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. The fixtures are in good working order for their age due to diligent maintenance. Observed years remaining have been increased slightly but fixtures need to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$12.00 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Fixtures are identified as Type DD on the original purchase order. Actual historical assessed value may vary. Percent renewal increased due to historical value.

**PHOTOS**



Antique Lighting - Solid Bronze Rosettes - Type DD Renewal  
 Antique Lighting - Solid Bronze Rosettes - Type DD Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
X-	Sum for Antique Lighting - Solid Bronze Rosettes - Type DD Renewal	1.00	Ea.	15,206.62	15,207
				<b>Subtotal:</b>	15,207
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	15,207

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Solid Bronze Rosettes - Type V6 Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	11,497

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Solid Bronze Rosettes - Type V6. System Description: Antique solid bronze rosettes are installed under the drive thru ports at the South and West Entrances. Luminaires are configured with five lamp sockets with Edison type incandescent lamps per fixture.

"Fixture bodies are 106 years old and it is expected they will last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. The fixtures are in good working order for their age due to diligent maintenance. Observed years remaining have been increased slightly but fixtures need to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$17.50 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Fixtures are identified as Type V6 on the original purchase order. Actual historical assessed value may vary. Percent renewal increased due to historical value.

**PHOTOS**



Antique Lighting - Solid Bronze Rosettes - Type V6 Renewal  
 Antique Lighting - Solid Bronze Rosettes - Type V6 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Solid Bronze Rosettes - Type V6 Renewal	1.00	Ea.	11,496.69	11,497
				<b>Subtotal:</b>	11,497
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	11,497

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Solid Bronze Wall Fixture - Type VI Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	30,625

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Solid Bronze Wall Fixture - Type VI. System Description: Antique solid bronze wall fixtures are installed in the East and West entrance vestibules on the First Floor. Luminaires are configured with six lamp sockets with Edison type incandescent lamps per fixture.

"Fixture bodies are 106 years old and it is expected they will last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. The fixtures are in good working order for their age due to diligent maintenance. Observed years remaining have been increased slightly but fixtures need to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$120.00 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Fixtures are identified as Type VI on the original purchase order. Actual historical assessed value may vary. Percent renewal increased due to historical value.

**PHOTOS**



Antique Lighting - Solid Bronze Wall Fixture - Type VI Renewal  
 Antique Lighting - Solid Bronze Wall Fixture - Type VI Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

*All costs in USD.*



Requirement Detail Report

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Solid Bronze Wall Fixture - Type VI Renewal	1.00	Ea.	30,625.31	30,625
				<b>Subtotal:</b>	30,625
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	30,625

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Antique Lighting - Solid Bronze Wall Fixture - Type VII Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	190,709

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Antique Lighting - Solid Bronze Wall Fixture - Type VII. System Description: Antique solid bronze wall fixtures are installed along the Ground Floor entry corridor and Rotunda. Luminaires are configured with six lamp sockets with Edison type incandescent lamps per fixture.

"Fixture bodies are 106 years old and it is expected they will last another 100 years under same environment but will require new or retrofitted lamp sockets in the near future. The fixtures are in good working order for their age due to diligent maintenance. Observed years remaining have been increased slightly but fixtures need to be replaced or completely reconditioned in the near future."

Note: Non-Means line item used for base fixture. Unit cost is based on average price as shown on original purchase order of \$85.00 and escalated to 2010 dollars with a 3.5% discount factor over 106 years (38.34). Original prices provided by State Capitol Historical Society. Fixtures are identified as Type VII on the original purchase order. Actual historical assessed value may vary. Percent renewal increased due to historical value.

**PHOTOS**



Antique Lighting - Solid Bronze Wall Fixture - Type VII Renewal  
 Antique Lighting - Solid Bronze Wall Fixture - Type VII Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Antique Lighting - Solid Bronze Wall Fixture - Type VII Renewal	1.00	Ea.	190,709.35	190,709
				<b>Subtotal:</b>	190,709
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	190,709

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Exit Signs Renewal	
<b>Linked System</b>	Emergency Light and Power Systems	<b>Inspection Date</b> 11/08/2010
<b>Prime System</b>	Emergency Light and Power Systems	<b>Finish Date</b> -
<b>Category</b>	Beyond Useful Life	<b>Status</b> Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b> 0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b> 363,947

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Exit Signs. System Description: Exit signs are generally older signs that have been retrofitted with LED lamps. Most units do not have emergency battery backup. It is assumed exit signs are connected to emergency power panels.

“This system is functional but lamps are starting to burn out in accordance with maintenance personnel and should be upgraded or replaced in the near future as replacement parts become obsolete. The observed years remaining have been adjusted to reflect a slight extended life expectancy of this system.”

**PHOTOS**



Exit Signs Renewal

Exit Signs Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Exit Signs Renewal	1.00	Ea.	363,946.58	363,947
				<b>Subtotal:</b>	363,947
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	363,947

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Exterior Lighting - Cupola Accent Lighting Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	296,266

## REQUIREMENT DESCRIPTION

Auto generated renewal requirement for Exterior Lighting - Cupola Accent Lighting. System Description: The three small cupolas on the upper roof are illuminated via incandescent lamps installed in wireway around each of the structures. Lighting is controlled via large dimming units installed on lower floors in Room 318C, electrical closet off of Room 313, and small closet adjacent to Room 326A. There are six sets of contactors in Room B31 that control ON-OFF functions. System includes all luminaires, wireway and controls.

“This system is functional and adequate for the facility due to good maintenance but all controls should be upgraded or replaced in the near future as replacement parts are obsolete. The observed years remaining have been adjusted to reflect the extended life expectancy of this system.”

## PHOTOS



Exterior Lighting - Cupola Accent Lighting Renewal

Exterior Lighting - Cupola Accent Lighting Renewal

## ACTION DESCRIPTION

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

## ESTIMATE

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Exterior Lighting - Cupola Accent Lighting Renewal	1.00	Ea.	296,265.60	296,266
				<b>Subtotal:</b>	296,266

All costs in USD.



*Requirement Detail Report*

**By Asset Name and Priority**

**Adjustment Factor:** 1.0000  
**Total:** 296,266

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Exterior Lighting - Pole Lights Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	183,529

## REQUIREMENT DESCRIPTION

Auto generated renewal requirement for Exterior Lighting - Pole Lights. System Description: Exterior lighting includes architectural type steel pole lighting around the perimeter at doorways, walkways, and patios. Poles have recently been retrofitted with compact fluorescent lamps (CFL). Luminaires include five CFL with plastic globes per pole. System includes all feeder wiring and controls.

"Although recently retrofitted with new lamps, several poles have broken lenses or lamps, and steel poles are aged and showing signs of rust damage on bases and risers. Condition does not warrant an immediate need and observed years have been increased slightly to compensate for recent retrofit but poles should be replaced or reconditioned in the near future."

## PHOTOS



Exterior Lighting - Pole Lights Renewal  
 Exterior Lighting - Pole Lights Renewal

## ACTION DESCRIPTION

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

## ESTIMATE

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Exterior Lighting - Pole Lights Renewal	1.00	Ea.	183,529.08	183,529
				<b>Subtotal:</b>	183,529
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	183,529

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Lighting Dimming Systems - Beyond Rated Life - Conference Room 107		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	162,727

**REQUIREMENT DESCRIPTION**

The lighting dimming control board serving the Conference Room 107 is aged and beyond its rated life. The board is old technology and replacement parts are becoming obsolete.

**PHOTOS**



Lighting Dimming Systems - Beyond Rated Life - Conference Room 107

Lighting Dimming Systems - Beyond Rated Life - Conference Room 107

**ACTION DESCRIPTION**

Replace the Conference Room 107 lighting dimming control panel located in Room 107B. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	4.00	Week	326.04	1,304
U110636000150	Stage equipment, control boards with dimmers & breakers, maximum	1.00	Ea.	141,901.84	141,902
U160553009000	Electrical demolition, minimum labor/equipment charge	50.00	Job	172.24	8,612
U161209009000	Wire, minimum labor/equipment charge	50.00	Job	172.24	8,612

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U162706205230	Transformer handling, add to normal labor cost in restricted areas, approximately 1000 pounds, 150 kVA	2.00	Ea.	1,148.29	2,297
				<b>Subtotal:</b>	162,727
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	162,727

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Lighting Dimming Systems - Beyond Rated Life - House Chamber		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	179,951

**REQUIREMENT DESCRIPTION**

The lighting dimming control board serving the House Chambers is aged and beyond its rated life. The board is old technology and replacement parts are becoming obsolete.

**PHOTOS**



Lighting Dimming Systems - Beyond Rated Life - House Chamber  
 Lighting Dimming Systems - Beyond Rated Life - House Chamber

**ACTION DESCRIPTION**

Replace the House Chamber lighting dimming control panel located in Room 310. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	4.00	Week	326.04	1,304
U110636000150	Stage equipment, control boards with dimmers & breakers, maximum	1.00	Ea.	141,901.84	141,902
U160553009000	Electrical demolition, minimum labor/equipment charge	100.00	Job	172.24	17,224
U161209009000	Wire, minimum labor/equipment charge	100.00	Job	172.24	17,224

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U162706205230	Transformer handling, add to normal labor cost in restricted areas, approximately 1000 pounds, 150 kVA	2.00	Ea.	1,148.29	2,297
				<b>Subtotal:</b>	179,951
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	179,951

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Lighting Dimming Systems - Beyond Rated Life - Senate Chamber		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	49,943

**REQUIREMENT DESCRIPTION**

The lighting dimming control board serving the Senate Chambers is aged and beyond its rated life. The board is old technology and replacement parts are becoming obsolete.

**PHOTOS**



Lighting Dimming Systems - Beyond Rated Life - Senate Chamber

Lighting Dimming Systems - Beyond Rated Life - Senate Chamber

**ACTION DESCRIPTION**

Replace the Senate Chamber lighting dimming control panel located in Closet located adjacent to Corridor 239. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	4.00	Week	326.04	1,304
U110636000050	Stage equipment, control boards with dimmers & breakers, minimum	1.00	Ea.	14,190.37	14,190
U160553009000	Electrical demolition, minimum labor/equipment charge	100.00	Job	172.24	17,224

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U161209009000	Wire, minimum labor/equipment charge	100.00	Job	172.24	17,224
				<b>Subtotal:</b>	49,943
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	49,943

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Lighting Dimming Systems - Beyond Rated Life - Senate Hearing Room		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	179,951

**REQUIREMENT DESCRIPTION**

The lighting dimming control board serving the Senate Hearing Room is aged and beyond its rated life. The board is old technology and replacement parts are becoming obsolete.

**PHOTOS**



Lighting Dimming Systems - Beyond Rated Life - Senate Hearing Room  
 Lighting Dimming Systems - Beyond Rated Life - Senate Hearing Room

**ACTION DESCRIPTION**

Replace the Senate Hearing Room lighting dimming control panel located in Room B36. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	4.00	Week	326.04	1,304
U110636000150	Stage equipment, control boards with dimmers & breakers, maximum	1.00	Ea.	141,901.84	141,902
U160553009000	Electrical demolition, minimum labor/equipment charge	100.00	Job	172.24	17,224
U161209009000	Wire, minimum labor/equipment charge	100.00	Job	172.24	17,224

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U162706205230	Transformer handling, add to normal labor cost in restricted areas, approximately 1000 pounds, 150 kVA	2.00	Ea.	1,148.29	2,297
				<b>Subtotal:</b>	179,951
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	179,951

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Lighting Dimming Systems - Dimmer Switches Beyond Rated Life - Supreme Court		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	16,958

**REQUIREMENT DESCRIPTION**

The dimmer switches serving the Supreme Court are aged and beyond its rated life and replacement parts are becoming obsolete.

**PHOTOS**



Lighting Dimming Systems - Dimmer Switches Beyond Rated Life - Supreme Court  
 Lighting Dimming Systems - Dimmer Switches Beyond Rated Life - Supreme Court

**ACTION DESCRIPTION**

Replace the Supreme Court dimmer switches located in the walkway behind the court room on the Second Floor. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	3.00	Job	348.48	1,045
U110636000050	Stage equipment, control boards with dimmers & breakers, minimum	1.00	Ea.	14,190.37	14,190
U160553009000	Electrical demolition, minimum labor/equipment charge	5.00	Job	172.24	861
U161209009000	Wire, minimum labor/equipment charge	5.00	Job	172.24	861
				<b>Subtotal:</b>	<b>16,958</b>

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

**Adjustment Factor:** 1.0000  
**Total:** 16,958

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Panelboards - Beyond Rated Life - Basement		
<b>Linked System</b>	Low Tension Service and Dist.	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Low Tension Service and Dist.	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	142,352

**REQUIREMENT DESCRIPTION**

Various panelboards located in the basement were not replaced with the recent electrical system upgrade and are approaching or beyond their rated life in accordance with BOMA (2003) recommendations. Equipment is dated and replacement parts are becoming obsolete. Panelboards observed include but may not necessarily be limited to Rooms B36 (1) B71B (1), B56 (1), B46D (1), Corridor B10B (2).

**PHOTOS**



Panelboards - Beyond Rated Life - Basement

Panelboards - Beyond Rated Life - Basement

**ACTION DESCRIPTION**

Replace the aged panelboards in the basement including all feeder conduit and wiring back to source as applicable. Panelboards include but may not necessarily be limited to Rooms B13 (1), B36 (1), B71B (1), B56 (1), B46D (1), Corridor B10B (2). Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102300280	Feeder installation 600 V, including RGS conduit and XHHW wire, 200 A	600.00	L.F.	49.25	29,550
AD50102300360	Feeder installation 600 V, including RGS conduit and XHHW wire, 600 A	100.00	L.F.	185.10	18,510

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	7.00	Week	326.04	2,282
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	7.00	Job	348.48	2,439
U160553000120	Conduit, rigid galvanized steel, 1-1/4" to 2" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	600.00	L.F.	3.44	2,064
U160553000160	Conduit, rigid galvanized steel, 4" to 6" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	200.00	L.F.	8.61	1,722
U160553001270	Panelboards, 4 wire, 120/208 V, 200 amp, to 42 circuits, electrical demolition, remove, incl removal of all breakers, conduit terminations & wire connections	6.00	Ea.	574.15	3,445
U160553001285	Panelboards, 4 wire, 120/208 V, 600 amp, to 42 circuits, electrical demolition, remove, incl removal of all breakers, conduit terminations & wire connections	1.00	Ea.	861.22	861
U160553001680	Pull boxes & cabinets, sheet metal, 24" x 24" x 6", electrical demolition, remove, incl removal of supports and terminations	7.00	Ea.	56.01	392
U160553001940	Wire, THW-THWN-THHN, 4/0, electrical demolition, removed from in place conduit, to 15' high	24.00	C.L.F.	62.63	1,503
U160553001990	Wire, THW-THWN-THHN, 500 kcmil, electrical demolition, removed from in place conduit, to 15' high	8.00	C.L.F.	85.06	680
U160553009000	Electrical demolition, minimum labor/equipment charge	6.00	Job	172.24	1,033
U160608009000	Grounding, minimum labor/equipment charge	7.00	Job	172.24	1,206
U161209009000	Wire, minimum labor/equipment charge	64.00	Job	172.24	11,023
U161322059990	Conduit, to 15' high, minimum labor/equipment charge	16.00	Job	172.24	2,756
U161367009990	Pull boxes & cabinets, minimum labor/equipment charge	7.00	Job	344.49	2,411
U164407202250	Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	6.00	Ea.	4,898.50	29,391
U164408200430	Circuit breaker, 3 pole, 480 V, 125 to 400 amp, LA frame, for feeder section	6.00	Ea.	3,414.62	20,488
U164408404600	Switchboards, circuit breaker, mold case, 3 pole, 4 wire, 600 amp	1.00	Ea.	10,594.39	10,594
				<b>Subtotal:</b>	142,352
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	142,352

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Panelboards - Beyond Rated Life - First Floor		
<b>Linked System</b>	Low Tension Service and Dist.	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Low Tension Service and Dist.	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	14,134

**REQUIREMENT DESCRIPTION**

Various panelboards located on the First Floor were not replaced with the recent electrical system upgrade and are approaching or beyond their rated life in accordance with BOMA (2003) recommendations. Equipment is dated and replacement parts are becoming obsolete. Panelboards observed include but may not necessarily be limited to Rooms 112A (1).

**PHOTOS**



Panelboards - Beyond Rated Life - First Floor

Panelboards - Beyond Rated Life - First Floor

**ACTION DESCRIPTION**

Replace the aged panelboards on the First Floor including all feeder conduit and wiring back to source as applicable. Panelboards include but may not necessarily be limited to Rooms 112A (1). Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102300280	Feeder installation 600 V, including RGS conduit and XHHW wire, 200 A	100.00	L.F.	49.25	4,925
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	1.00	Week	326.04	326

All costs in USD.



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	1.00	Job	348.48	348
U160553000120	Conduit, rigid galvanized steel, 1-1/4" to 2" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	100.00	L.F.	3.44	344
U160553001270	Panelboards, 4 wire, 120/208 V, 200 amp, to 42 circuits, electrical demolition, remove, incl removal of all breakers, conduit terminations & wire connections	1.00	Ea.	574.15	574
U160553001680	Pull boxes & cabinets, sheet metal, 24" x 24" x 6", electrical demolition, remove, incl removal of supports and terminations	1.00	Ea.	56.01	56
U160553001940	Wire, THW-THWN-THHN, 4/0, electrical demolition, removed from in place conduit, to 15' high	4.00	C.L.F.	62.63	251
U160553009000	Electrical demolition, minimum labor/equipment charge	1.00	Job	172.24	172
U160608009000	Grounding, minimum labor/equipment charge	1.00	Job	172.24	172
U161209009000	Wire, minimum labor/equipment charge	8.00	Job	172.24	1,378
U161322059990	Conduit, to 15' high, minimum labor/equipment charge	2.00	Job	172.24	344
U161367009990	Pull boxes & cabinets, minimum labor/equipment charge	1.00	Job	344.49	344
U164407202250	Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.00	Ea.	4,898.50	4,899
				<b>Subtotal:</b>	14,134
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	14,134

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Panelboards - Beyond Rated Life - Ground Floor		
<b>Linked System</b>	Low Tension Service and Dist.	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Low Tension Service and Dist.	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	70,670

**REQUIREMENT DESCRIPTION**

Various panelboards located on the Ground Floor were not replaced with the recent electrical system upgrade and are approaching or beyond their rated life in accordance with BOMA (2003) recommendations. Equipment is dated and replacement parts are becoming obsolete. Panelboards observed include but may not necessarily be limited to Rooms G24J (3), G14 (1), Storage Room at South Entrance (1).

**PHOTOS**



Panelboards - Beyond Rated Life - Ground Floor

Panelboards - Beyond Rated Life - Ground Floor

**ACTION DESCRIPTION**

Replace the aged panelboards on the Ground Floor including all feeder conduit and wiring back to source as applicable. Panelboards include but may not necessarily be limited to Rooms G24J (3), G14 (1), Storage Room at South Entrance (1). Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102300280	Feeder installation 600 V, including RGS conduit and XHHW wire, 200 A	500.00	L.F.	49.25	24,625
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	5.00	Week	326.04	1,630

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	5.00	Job	348.48	1,742
U160553000120	Conduit, rigid galvanized steel, 1-1/4" to 2" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	500.00	L.F.	3.44	1,720
U160553001270	Panelboards, 4 wire, 120/208 V, 200 amp, to 42 circuits, electrical demolition, remove, incl removal of all breakers, conduit terminations & wire connections	5.00	Ea.	574.15	2,871
U160553001680	Pull boxes & cabinets, sheet metal, 24" x 24" x 6", electrical demolition, remove, incl removal of supports and terminations	5.00	Ea.	56.01	280
U160553001940	Wire, THW-THWN-THHN, 4/0, electrical demolition, removed from in place conduit, to 15' high	20.00	C.L.F.	62.63	1,253
U160553009000	Electrical demolition, minimum labor/equipment charge	5.00	Job	172.24	861
U160608009000	Grounding, minimum labor/equipment charge	5.00	Job	172.24	861
U161209009000	Wire, minimum labor/equipment charge	40.00	Job	172.24	6,890
U161322059990	Conduit, to 15' high, minimum labor/equipment charge	10.00	Job	172.24	1,722
U161367009990	Pull boxes & cabinets, minimum labor/equipment charge	5.00	Job	344.49	1,722
U164407202250	Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	5.00	Ea.	4,898.50	24,493
				<b>Subtotal:</b>	70,670
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	70,670

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Panelboards - Beyond Rated Life - Roof		
<b>Linked System</b>	Low Tension Service and Dist.	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Low Tension Service and Dist.	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	51,203

**REQUIREMENT DESCRIPTION**

Panelboards located on the roof serving the roof mounted building floodlights are aged and beyond their rated life in accordance with BOMA (2003) recommendations. Finishes are starting to deteriorate from exposure to the weather and replacement parts are becoming obsolete.

**PHOTOS**



Panelboards - Beyond Rated Life - Roof  
 Panelboards - Beyond Rated Life - Roof

**ACTION DESCRIPTION**

Replace the panelboards on the roof serving the building floodlights including all feeder conduit and wiring back to source as applicable. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102300240	Feeder installation 600 V, including RGS conduit and XHHW wire, 100 A	300.00	L.F.	27.19	8,157
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	6.00	Week	326.04	1,956

*All costs in USD.*

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U160553000120	Conduit, rigid galvanized steel, 1-1/4" to 2" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	300.00	L.F.	3.44	1,032
U160553001260	Panelboards, 4 wire, 120/208 V, 125 amp, to 20 circuits, electrical demolition, remove, incl removal of all breakers, conduit terminations & wire connections	6.00	Ea.	287.07	1,722
U160553001680	Pull boxes & cabinets, sheet metal, 24" x 24" x 6", electrical demolition, remove, incl removal of supports and terminations	6.00	Ea.	56.01	336
U160553001900	Wire, THW-THWN-THHN, #2, electrical demolition, removed from in place conduit, to 15' high	12.00	C.L.F.	30.90	371
U160553009000	Electrical demolition, minimum labor/equipment charge	6.00	Job	172.24	1,033
U160608009000	Grounding, minimum labor/equipment charge	6.00	Job	172.24	1,033
U161209009000	Wire, minimum labor/equipment charge	48.00	Job	172.24	8,268
U161322059990	Conduit, to 15' high, minimum labor/equipment charge	12.00	Job	172.24	2,067
U161367002550	Pull boxes, sheet metal, type SC, raintight & weatherproof, 30" L x 24" W x 12" D, NEMA 3R	6.00	Ea.	810.39	4,862
U161367009990	Pull boxes & cabinets, minimum labor/equipment charge	6.00	Job	344.49	2,067
U164407202100	Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 100 amp, 30 circuits, NQOD, incl 20 A 1 pole plug-in breakers	6.00	Ea.	3,049.73	18,298
				<b>Subtotal:</b>	51,203
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	51,203

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Panelboards - Beyond Rated Life - Second Floor		
<b>Linked System</b>	Low Tension Service and Dist.	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Low Tension Service and Dist.	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	28,268

**REQUIREMENT DESCRIPTION**

Various panelboards located on the Second Floor were not replaced with the recent electrical system upgrade and are approaching or beyond their rated life in accordance with BOMA (2003) recommendations. Equipment is dated and replacement parts are becoming obsolete. Panelboards observed include but may not necessarily be limited to Rooms 211E(2).

**PHOTOS**



Panelboards - Beyond Rated Life - Second Floor

Panelboards - Beyond Rated Life - Second Floor

**ACTION DESCRIPTION**

Replace the aged panelboards on the Second Floor including all feeder conduit and wiring back to source as applicable. Panelboards include but may not necessarily be limited to Rooms 211E(2). Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102300280	Feeder installation 600 V, including RGS conduit and XHHW wire, 200 A	200.00	L.F.	49.25	9,850
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	2.00	Week	326.04	652

*All costs in USD.*



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Code</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	2.00	Job	348.48	697
U160553000120	Conduit, rigid galvanized steel, 1-1/4" to 2" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	200.00	L.F.	3.44	688
U160553001270	Panelboards, 4 wire, 120/208 V, 200 amp, to 42 circuits, electrical demolition, remove, incl removal of all breakers, conduit terminations & wire connections	2.00	Ea.	574.15	1,148
U160553001680	Pull boxes & cabinets, sheet metal, 24" x 24" x 6", electrical demolition, remove, incl removal of supports and terminations	2.00	Ea.	56.01	112
U160553001940	Wire, THW-THWN-THHN, 4/0, electrical demolition, removed from in place conduit, to 15' high	8.00	C.L.F.	62.63	501
U160553009000	Electrical demolition, minimum labor/equipment charge	2.00	Job	172.24	344
U160608009000	Grounding, minimum labor/equipment charge	2.00	Job	172.24	344
U161209009000	Wire, minimum labor/equipment charge	16.00	Job	172.24	2,756
U161322059990	Conduit, to 15' high, minimum labor/equipment charge	4.00	Job	172.24	689
U161367009990	Pull boxes & cabinets, minimum labor/equipment charge	2.00	Job	344.49	689
U164407202250	Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	2.00	Ea.	4,898.50	9,797
				<b>Subtotal:</b>	28,268
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	28,268

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Panelboards - Beyond Rated Life - Third Floor		
<b>Linked System</b>	Low Tension Service and Dist.	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Low Tension Service and Dist.	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	113,073

**REQUIREMENT DESCRIPTION**

Various panelboards located on the Third Floor were not replaced with the recent electrical system upgrade and are approaching or beyond their rated life in accordance with BOMA (2003) recommendations. Equipment is dated and replacement parts are becoming obsolete. Panelboards observed include but may not necessarily be limited to Corridor at Room 323 (1), Electrical Room Senate Chamber (3), Electrical Room off of Room 313 (2), Room 318C (2).

**PHOTOS**



Panelboards - Beyond Rated Life - Third Floor

Panelboards - Beyond Rated Life - Third Floor

**ACTION DESCRIPTION**

Replace the aged panelboards on the Third Floor including all feeder conduit and wiring back to source as applicable. Panelboards include but may not necessarily be limited to Corridor at Room 323 (1), Electrical Room Senate Chamber (3), Electrical Room off of Room 313 (2), Room 318C (2). Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AD50102300280	Feeder installation 600 V, including RGS conduit and XHHW wire, 200 A	800.00	L.F.	49.25	39,400
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	8.00	Week	326.04	2,608

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U092801009000	Gypsum wallboard, repairs, minimum labor/equipment charge	8.00	Job	348.48	2,788
U160553000120	Conduit, rigid galvanized steel, 1-1/4" to 2" diameter, electrical demolition, remove conduit to 15' high, incl fittings & hangers	800.00	L.F.	3.44	2,752
U160553001270	Panelboards, 4 wire, 120/208 V, 200 amp, to 42 circuits, electrical demolition, remove, incl removal of all breakers, conduit terminations & wire connections	8.00	Ea.	574.15	4,593
U160553001680	Pull boxes & cabinets, sheet metal, 24" x 24" x 6", electrical demolition, remove, incl removal of supports and terminations	8.00	Ea.	56.01	448
U160553001940	Wire, THW-THWN-THHN, 4/0, electrical demolition, removed from in place conduit, to 15' high	32.00	C.L.F.	62.63	2,004
U160553009000	Electrical demolition, minimum labor/equipment charge	8.00	Job	172.24	1,378
U160608009000	Grounding, minimum labor/equipment charge	8.00	Job	172.24	1,378
U161209009000	Wire, minimum labor/equipment charge	64.00	Job	172.24	11,023
U161322059990	Conduit, to 15' high, minimum labor/equipment charge	16.00	Job	172.24	2,756
U161367009990	Pull boxes & cabinets, minimum labor/equipment charge	8.00	Job	344.49	2,756
U164407202250	Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	8.00	Ea.	4,898.50	39,188
				<b>Subtotal:</b>	113,073
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	113,073

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 2- Potentially Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Site Lighting Renewal		
<b>Linked System</b>	Site Lighting	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Site Lighting	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2012	<b>Estimated Cost</b>	469,324

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Site Lighting. System Description: Site lighting includes architectural type steel pole site lighting around the perimeter along sidewalks and roadways. Poles have recently been retrofitted with compact fluorescent lamps (CFL). Luminaires include one compact fluorescent lamp with plastic globe per pole. System includes all feeder wiring and controls.

"Although recently retrofitted with new lamps, several poles have broken lenses or lamps, and steel poles are aged and showing signs of rust damage on bases and risers. Condition does not warrant an immediate need and observed years have been increased slightly to compensate for recent retrofit but poles should be replaced or reconditioned in the near future."

**PHOTOS**



Site Lighting Renewal  
 Site Lighting Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Site Lighting Renewal	1.00	Ea.	469,324.47	469,324
				<b>Subtotal:</b>	469,324
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	469,324

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Access Control - Exterior Back Boxes Rusted		
<b>Linked System</b>	Security and Detection Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Security and Detection Systems	<b>Finish Date</b>	-
<b>Category</b>	Appearance	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	741

**REQUIREMENT DESCRIPTION**

Exterior back boxes holding card swipe units at the South Entrance and side door at the North Entrance are aged and rusted.

**PHOTOS**



Access Control - Exterior Back Boxes Rusted  
 Access Control - Exterior Back Boxes Rusted

**ACTION DESCRIPTION**

Replace the exterior rusted back boxes at the card swipe units located at the South Entrance and side door at the North Entrance.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U018323600810	Electrical Facilities Maintenance, control device, disassemble, clean and reinstall	2.00	Ea.	104.73	209
U160553001760	Switch boxes, electrical demolition, remove, incl removal of supports and terminations	2.00	Ea.	6.44	13
U160553009000	Electrical demolition, minimum labor/equipment charge	2.00	Job	172.24	344
U161366001750	Outlet boxes, cast, FSC, 1 gang, 1/2" hub	2.00	Ea.	87.01	174
				<b>Subtotal:</b>	741
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	741

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Aluminum Windows - Main Building - 1985 Renewal		
<b>Linked System</b>	Exterior Windows	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Windows	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	1,923,777

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Aluminum Windows - Main Building - 1985. System Description: The building includes fixed and operable aluminum framed exterior units with insulating glass. Includes interior wood trim.

Note: Replacement windows shall respect historic nature of building.

**PHOTOS**



Aluminum Windows - Main Building - 1985 Renewal  
Aluminum Windows - Main Building - 1985 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Aluminum Windows - Main Building - 1985 Renewal	1.00	Ea.	1,923,776.51	1,923,777
				<b>Subtotal:</b>	1,923,777
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	1,923,777

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Boiler Steam - Humidification Renewal		
<b>Linked System</b>	Heat Generating Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Heat Generating Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2013	<b>Estimated Cost</b>	64,484

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Boiler Steam - Humidification. System Description: The building has two 120kW electric steam boilers used for humidification.

**PHOTOS**



Boiler Steam - Humidification Renewal  
 Boiler Steam - Humidification Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Boiler Steam - Humidification Renewal	1.00	Ea.	64,484.35	64,484
				<b>Subtotal:</b>	64,484
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	64,484

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Chandelier Hoist Renewal		
<b>Linked System</b>	Hoists and Cranes	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Hoists and Cranes	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	21,649

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Chandelier Hoist. System Description: There is a 2 ton electric hoist installed above the dome used to raise and lower the main crystal chandelier.

**PHOTOS**



Chandelier Hoist Renewal  
Chandelier Hoist Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Chandelier Hoist Renewal	1.00	Ea.	21,648.89	21,649
				<b>Subtotal:</b>	21,649
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	21,649

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Door Assembly - 3 x 7 HM - 1985 Renewal		
<b>Linked System</b>	Exterior Doors	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Doors	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	11,880

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Door Assembly - 3 x 7 HM - 1985. System Description: Exterior doors include 3 x 7 steel door and steel frame with hinges, lockset (lever), exit hardware and closer. Includes painted door and painted frame at basement exits.

**PHOTOS**



Door Assembly - 3 x 7 HM - 1985 Renewal  
 Door Assembly - 3 x 7 HM - 1985 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Door Assembly - 3 x 7 HM - 1985 Renewal	1.00	Ea.	11,879.74	11,880
				<b>Subtotal:</b>	11,880
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	11,880

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Door Assembly - 6 x 7 HM - 1985 Renewal		
<b>Linked System</b>	Exterior Doors	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Doors	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	7,428

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Door Assembly - 6 x 7 HM - 1985. System Description: Exterior doors include pr. 3 x 7 steel doors and steel frame with hinges, locksets (lever), exit hardware and closers at exterior service locations. Includes painted doors and painted frame.

**PHOTOS**



Door Assembly - 6 x 7 HM - 1985 Renewal  
 Door Assembly - 6 x 7 HM - 1985 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Door Assembly - 6 x 7 HM - 1985 Renewal	1.00	Ea.	7,428.33	7,428
				<b>Subtotal:</b>	7,428
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	7,428

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Elevator Cab #3 - Damaged Ceiling and Floor		
<b>Linked System</b>	Passenger Elevators	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Passenger Elevators	<b>Finish Date</b>	-
<b>Category</b>	Appearance	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	2,610

**REQUIREMENT DESCRIPTION**

Elevator #3 is used for freight as required and the floor and ceiling have been damaged from such use.

**PHOTOS**



Elevator Cab #3 - Damaged Ceiling and Floor  
Elevator Cab #3 - Damaged Ceiling and Floor

**ACTION DESCRIPTION**

Replace the damaged floor and ceiling boards in elevator #3.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	1.00	Week	326.04	326
U090601109000	Ceiling demolition, minimum labor/equipment charge	1.00	Job	276.57	277
U090601209000	Flooring demolition, minimum labor/equipment charge	1.00	Job	138.28	138
U140552000050	Elevator, cab, track and equipment, removal	1.00	Stop	886.40	886
U142702003350	Passenger Elevator Options, cab finishes (based on 3500 lb cab size), acrylic panel ceiling	1.00	Ea.	775.50	776

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U142702003525	Passenger Elevator Options, cab finishes (based on 3500 lb cab size), textured rubber flooring	1.00	Ea.	206.80	207
				<b>Subtotal:</b>	2,610
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	2,610

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Fluorescent Lighting - Approaching Rated Life		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	1,974,872

**REQUIREMENT DESCRIPTION**

Fluorescent lamps and ballasts throughout are approaching their rated life in accordance with BOMA (2003) recommendations. Units are replaced individually as they fail but it is recommended all lamps and ballasts be replaced as a group in the near future.

**PHOTOS**



Fluorescent Lighting - Approaching Rated Life  
 Fluorescent Lighting - Approaching Rated Life

**ACTION DESCRIPTION**

Replace the fluorescent ballasts and lamps building wide. Existing luminaires to remain in place to the extent possible. Estimate assumes 10% replacement of luminaires as required. Hazardous waste costs included for lamp disposal. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
E015904000150M	Rent aerial lift to 15'high 1000 lb cap scissor type	8.00	Ea./month	1,247.96	9,984
RD50232600010	Replace fluor. ballast for fluorescent lighting fixture, 80 W	11,000.00	Ea.	129.19	1,421,090
RD50232600020	Replace lamps (2 lamps) fluorescent lighting fixture, 80 W	11,000.00	Ea.	35.46	390,060
RD50232600030	Replace fixture fluorescent lighting fixture, 80 W	600.00	Ea.	236.27	141,762

*All costs in USD.*

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U021103001120	Hazardous waste cleanup/pickup/disposal, solid pickup, bulk material, minimum	8.00	Ton	192.85	1,543
U022203500600	Selective demolition, rubbish handling, dumpster, 6 C.Y., 2 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	32.00	Week	326.04	10,433
				<b>Subtotal:</b>	1,974,872
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	1,974,872

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Heat Exchanger - Shell and Tube Renewal		
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2013	<b>Estimated Cost</b>	152,797

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Heat Exchanger - Shell and Tube. System Description: The HVAC system includes two liquid / liquid shell and tube heat exchangers used to produce building heating hot water.

**PHOTOS**



Heat Exchanger - Shell and Tube Renewal  
Heat Exchanger - Shell and Tube Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Heat Exchanger - Shell and Tube Renewal	1.00	Ea.	152,797.18	152,797
				<b>Subtotal:</b>	152,797
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	152,797

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Interior Lighting - Spotlights - Rotunda Renewal		
<b>Linked System</b>	Lighting Equipment	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Lighting Equipment	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2013	<b>Estimated Cost</b>	17,481

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Interior Lighting - Spotlights - Rotunda. System Description: Surface mount spotlights are installed around the top interior of the Rotunda. Fixtures are equipped with 300W incandescent PAR type Spotlights.

“This system is in good working order due to good maintenance but maintenance indicates the lamps burn out on a regular basis. The observed years remaining have been increased due to good maintenance but the fixtures should be replaced or retrofitted with more energy efficient lamps with longer life spans to reduce maintenance efforts.”

**PHOTOS**



Interior Lighting - Spotlights - Rotunda Renewal  
 Interior Lighting - Spotlights - Rotunda Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Interior Lighting - Spotlights - Rotunda Renewal	1.00	Ea.	17,481.20	17,481
				<b>Subtotal:</b>	17,481
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	17,481

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Marble Veneer Walls and Ornate Trim - Dome Barrel Renewal		
<b>Linked System</b>	Exterior Walls	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Exterior Walls	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	In Project
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	2,199,519

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Marble Veneer Walls and Ornate Trim - Dome Barrel. System Description: The exterior walls and decorative trim elements at dome barrel for Dome 1 are of high quality, high cost marble with stone, masonry, concrete masonry unit (CMU) or cast-in-place (CIP) concrete backup wall system. Includes statuary, columns, belts and other ornate architectural trim elements. System life extended by renovation work.

Dome rehabilitation was underway at time of 2010 reassessment. Adjust Years Remaining to account for ultimate scope of work on this system.

**PHOTOS**



Marble Veneer Walls and Ornate Trim - Dome Barrel Renewal  
 Marble Veneer Walls and Ornate Trim - Dome Barrel Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Marble Veneer Walls and Ornate Trim - Dome Barrel Renewal	1.00	Ea.	2,199,519.09	2,199,519
				<b>Subtotal:</b>	2,199,519
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	2,199,519

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Ornately Detailed Vaulted Painted Plaster Ceilings - 1st and 2nd Floors - 1965 Renewal		
<b>Linked System</b>	Ceiling Finishes	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Ceiling Finishes	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	6,574,189

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Ornately Detailed Vaulted Painted Plaster Ceilings - 1st and 2nd Floors - 1965. System Description: The exposed interior gothic vaulted ceilings and decorative trim elements at main galleries, etc. at 1st and 2nd floors are of high quality, high cost ornately detailed three-coat painted plaster ceiling system on metal lath on vaulted masonry structural subceilings. Structural subceilings described elsewhere. Includes fresco painting, gilt coatings, etc. Quantity accounts for vaulted surfaces.

% renewal increased to allow for historical palette research.

**PHOTOS**



Ornately Detailed Vaulted Painted Plaster Ceilings - 1st and 2nd Floors - 1965 Renewal  
 Ornately Detailed Vaulted Painted Plaster Ceilings - 1st and 2nd Floors - 1965 Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Ornately Detailed Vaulted Painted Plaster Ceilings - 1st and 2nd Floors - 1965 Renewal	1.00	Ea.	6,574,188.87	6,574,189
				<b>Subtotal:</b>	6,574,189
				<b>Adjustment Factor:</b>	1.0000

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

**Total:** 6,574,189

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Sewage Ejector Pumps - Duplex Renewal		
<b>Linked System</b>	Sanitary Waste	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Sanitary Waste	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	15,656

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Sewage Ejector Pumps - Duplex. System Description: Duplex sewage ejector pumps. These systems are located in the west electric vault and the B-25 machinery room.

**PHOTOS**



Sewage Ejector Pumps - Duplex Renewal  
Sewage Ejector Pumps - Duplex Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Sewage Ejector Pumps - Duplex Renewal	1.00	Ea.	15,655.63	15,656
				<b>Subtotal:</b>	15,656
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	15,656

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Tel / Data Room - Cooling Inadequate	
<b>Linked System</b>	Distribution Systems	<b>Inspection Date</b> 11/08/2010
<b>Prime System</b>	Distribution Systems	<b>Finish Date</b> -
<b>Category</b>	Capacity/Design	<b>Status</b> Open
<b>Inspector</b>	Mech	<b>Actual Cost</b> 0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b> 8,651

**REQUIREMENT DESCRIPTION**

Telephone and data closet 217D as well as the House television room 317 are inadequately cooled for the sensitive equipment inside. The addition of dedicated cooling systems for the rooms is recommended to prevent loss or damage to this equipment.

**PHOTOS**



Tel / Data Room - Cooling Inadequate  
 Tel / Data Room - Cooling Inadequate

**ACTION DESCRIPTION**

Install split DX AC units to improve cooling in the rooms listed in the requirement.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U157309001020	Split ductless system, cooling only, single zone, ceiling mount, 2 ton cooling	2.00	Ea.	3,747.43	7,495
U157309007010	Split ductless system, accessories for all split ductless systems, for ambient frost control, add	2.00	Ea.	376.26	753
U157309007040	Split ductless system, accessories for all split ductless systems, for tube / wiring kit, 35' kit	2.00	Ea.	201.69	403
				<b>Subtotal:</b>	8,651
				<b>Adjustment Factor:</b>	1.0000

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

**Total:** 8,651

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Voting Boards - House Chamber Renewal		
<b>Linked System</b>	Intercommunication and Paging System	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Intercommunication and Paging System	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2015	<b>Estimated Cost</b>	361,526

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Voting Boards - House Chamber. System Description: There are two analog type voting boards in the House Chamber. System consists of board and lamps, relays and hard wired connections to each desk.

“This system is functional and adequate for the facility due to good maintenance but should be upgraded or replaced in the near future as replacement parts become obsolete. The observed years remaining have been adjusted to reflect the extended life expectancy of this system.”

**PHOTOS**



Voting Boards - House Chamber Renewal

Voting Boards - House Chamber Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Voting Boards - House Chamber Renewal	1.00	Ea.	361,526.48	361,526
				<b>Subtotal:</b>	361,526
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	361,526

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 3- Necessary - Not Yet Critical

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Water Coolers - Wall-Mount Dual-Height Renewal		
<b>Linked System</b>	Plumbing Fixtures	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Plumbing Fixtures	<b>Finish Date</b>	-
<b>Category</b>	Beyond Useful Life	<b>Status</b>	Open
<b>Inspector</b>	System Renewal	<b>Actual Cost</b>	0
<b>Action Date</b>	11/08/2014	<b>Estimated Cost</b>	12,328

**REQUIREMENT DESCRIPTION**

Auto generated renewal requirement for Water Coolers - Wall-Mount Dual-Height. System Description: Plumbing fixtures include dual-height water coolers.

The system includes supply and drain piping. Unit quantity adjusted to account for the high end finish used.

**PHOTOS**



Water Coolers - Wall-Mount Dual-Height Renewal

Water Coolers - Wall-Mount Dual-Height Renewal

**ACTION DESCRIPTION**

Estimated Cost= (System.Replacement Cost \* System.Percent Renew)/100

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
X-	Sum for Water Coolers - Wall-Mount Dual-Height Renewal	1.00	Ea.	12,328.09	12,328
				<b>Subtotal:</b>	12,328
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	12,328

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 4- Recommended Improvements

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Computer Servers - Poor Location - Room 217D		
<b>Linked System</b>	Local Area Networks	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Local Area Networks	<b>Finish Date</b>	-
<b>Category</b>	Capacity/Design	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	-	<b>Estimated Cost</b>	31,675

## REQUIREMENT DESCRIPTION

Computer servers located in Room 217D which is an existing restroom. Although the restroom is not used by personnel, the equipment should be located in a more suitable location.

## PHOTOS



Computer Servers - Poor Location - Room 217D

Computer Servers - Poor Location - Room 217D

## ACTION DESCRIPTION

Relocate the computer servers located in Room 217D to a more suitable location. Unit counts for budget purposes only. Actual counts may vary.

## ESTIMATE

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AC10101241450	Wood partition, 5/8" fire rated gypsum board face, 1/4" sound deadening gypsum board, 2x4 @ 16" OC, 5/8" fire rated gypsum board opposite face, 1.5" fiberglass insulation	1,500.00	S.F.	7.69	11,535
AC10201168180	Labeled metal door/metal frame, mineral core, 1.5 hr, 20 ga full panel, 6'-0" x 7'-0", welded frame, 8-3/4"	1.00	Ea.	2,758.22	2,758
AD50309200110	Internet wiring, 8 data/voice outlets per 1000 S.F.	2.00	M.S.F.	2,574.63	5,149

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U018401007140	Moving Equipment, remove and reset, 100' distance, no obstructions, assembly or leveling unless noted, storage rack, open, large	5.00	Ea.	148.16	741
U161367008320	Cabinet, double door, 72" H x 72" W x 24" D, NEMA 12, floor mounted	1.00	Ea.	3,858.21	3,858
U161367009000	Electronic rack enclosures, 72" H x 30" W x 36" D	2.00	Ea.	3,472.51	6,945
U161367009990	Pull boxes & cabinets, minimum labor/equipment charge	2.00	Job	344.49	689
				<b>Subtotal:</b>	31,675
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	31,675

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 4- Recommended Improvements

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Computer Servers - Poor Location - Room G38		
<b>Linked System</b>	Local Area Networks	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Local Area Networks	<b>Finish Date</b>	-
<b>Category</b>	Capacity/Design	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	-	<b>Estimated Cost</b>	97,676

**REQUIREMENT DESCRIPTION**

The computer servers located in Room G38 are located in the middle of office and cubicle spaces. The servers are loud and obtrusive and in their present location disturb personnel in the offices and cubicles.

**PHOTOS**



Computer Servers - Poor Location - Room G38  
 Computer Servers - Poor Location - Room G38

**ACTION DESCRIPTION**

Relocate the computer servers located in Room G38 to one end of the area and provide an enclosed room to reduce or eliminate noise in the office and cubicle spaces. Unit counts for budget purposes only. Actual counts may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
AC10101241450	Wood partition, 5/8" fire rated gypsum board face, 1/4" sound deadening gypsum board, 2x4 @ 16" OC, 5/8" fire rated gypsum board opposite face, 1.5" fiberglass insulation	1,500.00	S.F.	7.69	11,535
AC10201168180	Labeled metal door/metal frame, mineral core, 1.5 hr, 20 ga full panel, 6'-0" x 7'-0", welded frame, 8-3/4"	1.00	Ea.	2,758.22	2,758
AD50309200110	Internet wiring, 8 data/voice outlets per 1000 S.F.	2.00	M.S.F.	2,574.63	5,149

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U018401007140	Moving Equipment, remove and reset, 100' distance, no obstructions, assembly or leveling unless noted, storage rack, open, large	10.00	Ea.	148.16	1,482
U161367008320	Cabinet, double door, 72" H x 72" W x 24" D, NEMA 12, floor mounted	10.00	Ea.	3,858.21	38,582
U161367009000	Electronic rack enclosures, 72" H x 30" W x 36" D	10.00	Ea.	3,472.51	34,725
U161367009990	Pull boxes & cabinets, minimum labor/equipment charge	10.00	Job	344.49	3,445
				<b>Subtotal:</b>	97,676
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	97,676

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 4- Recommended Improvements

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Dumb Waiter - Abandoned In Place	<b>Inspection Date</b>	11/08/2010
<b>Linked System</b>	Not Applicable	<b>Finish Date</b>	-
<b>Prime System</b>	-	<b>Status</b>	Open
<b>Category</b>	Obsolescence	<b>Actual Cost</b>	0
<b>Inspector</b>	Mech	<b>Estimated Cost</b>	8,807
<b>Action Date</b>	-		

**REQUIREMENT DESCRIPTION**

The building includes an abandoned dumb waiter system. This system should be removed to make room for other equipment.

**PHOTOS**



Dumb Waiter - Abandoned In Place  
Dumb Waiter - Abandoned In Place

**ACTION DESCRIPTION**

Remove and properly dispose of the abandoned Dumb Waiter.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
LCLAMJ	Common Maintenance Laborer	40.00	hour	45.57	1,823
LCLNRJ	Cleaner	20.00	hour	63.59	1,272
LSKWKJ	Skilled Workers Average (35 trades)	40.00	hour	83.76	3,350
U022203500700	Selective demolition, rubbish handling, dumpster, 10 C.Y., 4 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost.	2.00	Week	516.23	1,032
U140551000050	Dumbwaiter, cab, track and equipment, removal	3.00	Stop	443.20	1,330
				<b>Subtotal:</b>	<b>8,807</b>

All costs in USD.



*Requirement Detail Report*

**By Asset Name and Priority**

**Adjustment Factor:** 1.0000  
**Total:** 8,807

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 5- Grandfathered Code

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Outlets at Vending Machines Not GFCI Type - Cafeteria		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Grandfathered Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	-	<b>Estimated Cost</b>	1,546

**REQUIREMENT DESCRIPTION**

Outlets serving vending machines in the Basement Cafeteria are not GFCI type as required by NFPA 70 (2005) Article 422.51.

Note: Vending machines may already have factory installed internal GFCI protection. This could not be determined during site assessment. If field verified, this requirement should be deleted.

**PHOTOS**



Branch Wiring - Outlets at Vending Machines Not GFCI Type - Cafeteria  
 Branch Wiring - Outlets at Vending Machines Not GFCI Type - Cafeteria

**ACTION DESCRIPTION**

Provide GFCI type outlets for vending machines in the Cafeteria entrance hallway and serving line. Unit count for budget purposes only, actual count may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U018323601030	Electrical Facilities Maintenance, distribution systems and equipment, reset breaker or replace fuse	9.00	Ea.	36.65	330
U018401007040	Moving Equipment, remove and reset, 100' distance, no obstructions, assembly or leveling unless noted, storage cabinet, metal, large	9.00	Ea.	41.49	373

All costs in USD.



Requirement Detail Report

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U160553001780	Receptacle & switch plates, electrical demolition, remove	9.00	Ea.	2.68	24
U160553001790	Receptacle & switches, 15 to 30 amp, electrical demolition, remove	9.00	Ea.	5.10	46
U160553009000	Electrical demolition, minimum labor/equipment charge	1.00	Job	172.24	172
U161409102482	Duplex receptacle, ground fault interrupting, 20 amp	9.00	Ea.	66.69	600
				<b>Subtotal:</b>	1,546
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	1,546

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 5- Grandfathered Code

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Outlets at Vending Machines Not GFCI Type - Room 315		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Grandfathered Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	-	<b>Estimated Cost</b>	477

**REQUIREMENT DESCRIPTION**

Outlets serving vending machines on the Third Floor Room 315 are not GFCI type as required by NFPA 70 (2005) Article 422.51.

Note: Vending machines may already have factory installed internal GFCI protection. This could not be determined during site assessment. If field verified, this requirement should be deleted.

**PHOTOS**



Branch Wiring - Outlets at Vending Machines Not GFCI Type - Room 315

Branch Wiring - Outlets at Vending Machines Not GFCI Type - Room 315

**ACTION DESCRIPTION**

Provide GFCI type outlets for vending machines in the Cafeteria entrance hallway and serving line. Unit count for budget purposes only, actual count may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U018323601030	Electrical Facilities Maintenance, distribution systems and equipment, reset breaker or replace fuse	2.00	Ea.	36.65	73
U018401007040	Moving Equipment, remove and reset, 100' distance, no obstructions, assembly or leveling unless noted, storage cabinet, metal, large	2.00	Ea.	41.49	83

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U160553001780	Receptacle & switch plates, electrical demolition, remove	2.00	Ea.	2.68	5
U160553001790	Receptacle & switches, 15 to 30 amp, electrical demolition, remove	2.00	Ea.	5.10	10
U160553009000	Electrical demolition, minimum labor/equipment charge	1.00	Job	172.24	172
U161409102482	Duplex receptacle, ground fault interrupting, 20 amp	2.00	Ea.	66.69	133
				<b>Subtotal:</b>	477
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	477

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 5- Grandfathered Code

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Branch Wiring - Outlets in Kitchen Not GFCI Type		
<b>Linked System</b>	Branch Wiring Devices	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Branch Wiring Devices	<b>Finish Date</b>	-
<b>Category</b>	Grandfathered Code	<b>Status</b>	Open
<b>Inspector</b>	Elec	<b>Actual Cost</b>	0
<b>Action Date</b>	-	<b>Estimated Cost</b>	2,395

**REQUIREMENT DESCRIPTION**

Outlets in the Cafeteria kitchen in the Basement are not GFCI type as required by NFPA 70 (2005) Article 210.8.B (2).

**PHOTOS**



Branch Wiring - Outlets in Kitchen Not GFCI Type  
 Branch Wiring - Outlets in Kitchen Not GFCI Type

**ACTION DESCRIPTION**

Provide GFCI type outlets for all outlets in the Cafeteria kitchen. Unit count for budget purposes only, actual count may vary.

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U018323601030	Electrical Facilities Maintenance, distribution systems and equipment, reset breaker or replace fuse	20.00	Ea.	36.65	733
U160553001780	Receptacle & switch plates, electrical demolition, remove	20.00	Ea.	2.68	54
U160553001790	Receptacle & switches, 15 to 30 amp, electrical demolition, remove	20.00	Ea.	5.10	102
U160553009000	Electrical demolition, minimum labor/equipment charge	1.00	Job	172.24	172
U161409102482	Duplex receptacle, ground fault interrupting, 20 amp	20.00	Ea.	66.69	1,334

All costs in USD.



*Requirement Detail Report*

**By Asset Name and Priority**

<b>Subtotal:</b>	2,395
<b>Adjustment Factor:</b>	1.0000
<b>Total:</b>	2,395

*All costs in USD.*

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 5- Grandfathered Code

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Interior Stairs - Missing or Non-Compliant Handrails - Curved Monumental Stairs		
<b>Linked System</b>	Curved Stairs	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Curved Stairs	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Arch	<b>Actual Cost</b>	0
<b>Action Date</b>	-	<b>Estimated Cost</b>	60,926

**REQUIREMENT DESCRIPTION**

According to 2009 IBC, Section 1003.3.3.6, stairways shall have handrails on each side. Rails must be provided with the required extensions, and meet the handgrip dimensional requirements.

The interior floating curved monumental stairs at the north (House) wing of the building are not equipped with compliant handrails at the required locations. Metal handrails at stairs do not meet height or continuity requirements. Siderails are not present. Handrails are original construction and thus historic in character. Historically sensitive handrail modernization or installation is required.

**PHOTOS**



Interior Stairs - Missing or Non-Compliant Handrails - Curved Monumental Stairs  
Interior Stairs - Missing or Non-Compliant Handrails - Curved Monumental Stairs

**ACTION DESCRIPTION**

Provide IBC compliant handrails at the indicated locations. Drill mounting pockets into marble steps and grout new guardrails in place.

Side rail: Est. 1 handrail unit/flight x 3 flights @ 40 LF/flight each = 120 LF

Wall rail: Est. 1 handrail unit/flight x 3 flights @ 36 LF/flight each = 108 LF

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
LCARPJ	Carpenters	40.00	hour	81.24	3,250

*All costs in USD.*



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
LSSWLJ	Welders, Structural Steel	20.00	hour	105.47	2,109
U036104000350	Grout, non-shrink, for column and machine bases, non-metallic, 2" deep	4.00	S.F.	42.17	169
U050903400900	Concrete impact drilling, for anchors, up to 4" D, 1-1/2" dia, in concrete or brick walls and floors, incl bit & layout, excl anchor	18.00	Ea.	20.52	369
U055207000740	Railing, pipe, stainless steel, mirror polish, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/4" dia, shop fabricated	120.00	L.F.	241.70	29,004
U055207000965	Railing, pipe, stainless steel, wall rail, mirror polish, 1-1/2" diam., shop fabricated	108.00	L.F.	240.97	26,025
				<b>Subtotal:</b>	60,926
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	60,926

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 5- Grandfathered Code

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Interior Stairs - Missing or Non-Compliant Handrails - East Monumental Stairs		
<b>Linked System</b>	Stairs	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Stairs	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Arch	<b>Actual Cost</b>	0
<b>Action Date</b>	-	<b>Estimated Cost</b>	72,538

**REQUIREMENT DESCRIPTION**

According to 2009 IBC, Section 1003.3.3.6, stairways shall have handrails on each side, or where the width exceeds 88-inches must be equipped with an intermediate rail. Rails must be provided with the required extensions, and meet the handgrip dimensional requirements.

The interior grand monumental stairs at the east (Supreme Court) wing of the building are not equipped with compliant handrails at the required locations. Marble handrails at stairs do not meet height or continuity requirements. Handrails are original construction and thus historic in character. Historically sensitive handrail modernization or installation is required.

**PHOTOS**



Interior Stairs - Missing or Non-Compliant Handrails - East Monumental Stairs

Interior Stairs - Missing or Non-Compliant Handrails - East Monumental Stairs

**ACTION DESCRIPTION**

Provide IBC compliant handrails at the indicated locations. Drill mounting pockets into marble steps and grout new guardrails in place.

Est. 3 handrail units/flight x 6 flights @ 14 LF/flight each = 27 LF

**ESTIMATE**

Code	Description	Quantity	Unit	Unit Cost	Total Cost
LCARPJ	Carpenters	72.00	hour	81.24	5,849
LSSWLJ	Welders, Structural Steel	36.00	hour	105.47	3,797

All costs in USD.



*Requirement Detail Report*

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U036104000350	Grout, non-shrink, for column and machine bases, non-metallic, 2" deep	12.00	S.F.	42.17	506
U050903400900	Concrete impact drilling, for anchors, up to 4" D, 1-1/2" dia, in concrete or brick walls and floors, incl bit & layout, excl anchor	72.00	Ea.	20.52	1,477
U055207000740	Railing, pipe, stainless steel, mirror polish, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/4" dia, shop fabricated	252.00	L.F.	241.70	60,908
				<b>Subtotal:</b>	72,538
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	72,538

All costs in USD.

**Agency:** Administration  
**Location:** Capital Complex  
**Priority:** 5- Grandfathered Code

**Asset Name:** State Capitol Building  
**Asset Number:** 1

<b>Requirement Name</b>	Interior Stairs - Missing or Non-Compliant Handrails - West Monumental Stairs		
<b>Linked System</b>	Stairs	<b>Inspection Date</b>	11/08/2010
<b>Prime System</b>	Stairs	<b>Finish Date</b>	-
<b>Category</b>	Building Code	<b>Status</b>	Open
<b>Inspector</b>	Arch	<b>Actual Cost</b>	0
<b>Action Date</b>	-	<b>Estimated Cost</b>	72,538

## REQUIREMENT DESCRIPTION

According to 2009 IBC, Section 1003.3.3.6, stairways shall have handrails on each side, or where the width exceeds 88-inches must be equipped with an intermediate rail. Rails must be provided with the required extensions, and meet the handgrip dimensional requirements.

The interior grand monumental stairs at the west (Senate) wing of the building are not equipped with compliant handrails at the required locations. Marble handrails at stairs do not meet height or continuity requirements. Handrails are original construction and thus historic in character. Historically sensitive handrail modernization or installation is required.

## PHOTOS



Interior Stairs - Missing or Non-Compliant Handrails - West Monumental Stairs

Interior Stairs - Missing or Non-Compliant Handrails - West Monumental Stairs

## ACTION DESCRIPTION

Provide IBC compliant handrails at the indicated locations. Drill mounting pockets into marble steps and grout new guardrails in place.

Est. 3 handrail units/flight x 6 flights @ 14 LF/flight each = 27 LF

## ESTIMATE

Code	Description	Quantity	Unit	Unit Cost	Total Cost
LCARPJ	Carpenters	72.00	hour	81.24	5,849
LSSWLJ	Welders, Structural Steel	36.00	hour	105.47	3,797

All costs in USD.



Requirement Detail Report

By Asset Name and Priority

Code	Description	Quantity	Unit	Unit Cost	Total Cost
U036104000350	Grout, non-shrink, for column and machine bases, non-metallic, 2" deep	12.00	S.F.	42.17	506
U050903400900	Concrete impact drilling, for anchors, up to 4" D, 1-1/2" dia, in concrete or brick walls and floors, incl bit & layout, excl anchor	72.00	Ea.	20.52	1,477
U055207000740	Railing, pipe, stainless steel, mirror polish, 2 rails, 3'-6" high, posts @ 5' O.C., 1-1/4" dia, shop fabricated	252.00	L.F.	241.70	60,908
				<b>Subtotal:</b>	72,538
				<b>Adjustment Factor:</b>	1.0000
				<b>Total:</b>	72,538

All costs in USD.