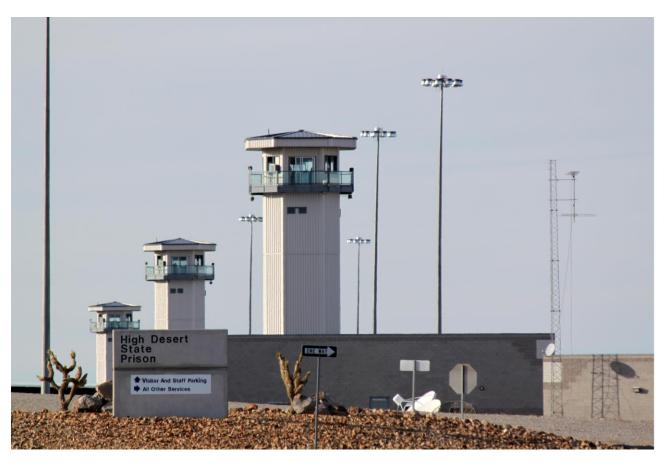
State of Nevada Department of Corrections Facility Condition Analysis

HIGH DESERT STATE PRISON

22010 Cold Creek Road Las Vegas, Nevada 89070

Site Number: 9952 STATE OF NEVADA PUBLIC WORKS DIVISION FACILITY CONDITION ANALYSIS



Report distributed in August, 2017

State of Nevada Department of Corrections Facility Condition Analysis

The Facility Condition Analysis Program was created under the authority found in NRS 341.128. The State Public Works Division develops this report using cost estimates based on contractor pricing which includes materials, labor, location factors and profit and overhead. The costs of project design, management, special testing and inspections, inflation and permitting fees are not included. Cost estimates are derived from the R.S. Means Cost Estimating Guide and from comparable construction costs of projects completed by SPWD project managers.

The deficiencies outlined in this report were noted from a visual survey. This report does not address routine maintenance needs. Recommended projects do not include telecommunications, furniture, window treatments, space change, program issues, or costs that could not be identified or determined from the survey and available building information. If there are buildings without projects listed, this indicates that only routine maintenance needs were found. This report considers probable facility needs for a 10 year planning cycle.

This report is not a guarantee of funding and should not be used for budgeting purposes. This report is a planning level document for agencies and the State Public Works Division to assess the needs of the Building and/or Site and to help support future requests for ADA upgrades / renovations, Capital Improvement Projects and maintenance. The final scope and estimate of any budget request should be developed by a qualified individual. Actual project costs will vary from those proposed in this report when the final scope and budget are developed.

Establishing a Facility Condition Needs Index (FCNI) for each building

The FCA reports identify maintenance items and establish construction cost estimates. These costs are summarized at the end of the report and noted as construction costs per square foot. A FCNI is commonly used by facility managers to make a judgment whether to recommend whole replacement of facilities, rather than expending resources on major repairs and improvements. The FCNI is a ratio between the proposed facility upgrade costs and facility replacement costs (FRC). Those buildings with indices greater than .50 or 50% are recommended to be considered for complete replacement.

Class Definitions

PRIORITY CLASS 1 - Currently Critical (Immediate to Two Years)

Projects in this category require immediate action to return a facility to normal operation, stop accelerated deterioration, correct a fire/life safety hazard, or correct an ADA requirement.

PRIORITY CLASS 2 - Necessary - Not Yet Critical (Two to Four Years)

Projects in this category include conditions requiring appropriate attention to preclude predictable deterioration or potential downtime and the associated damage or higher costs if deferred further.

PRIORITY CLASS 3 - (Four to Ten Years)

Projects in this category include items that represent a sensible improvement to existing conditions. These items are not required for the most basic function of a facility; however, Priority 3 projects will either improve overall usability and/or reduce long-term maintenance.

Site num	nber: 9952	Facility Condition Nee	eds Index	Report		Cost to	Cost to	Cost to	Total Cost	Cost to	FCNI
Index #	Building Name		Sq. Feet	Yr. Buil	Survey Date		Repair: P2	Repair: P3	to Repair	Replace	
2096	SALLYPORT		192	2000	11/1/2016	\$19,296	\$13,376	\$2,880	\$35,552	\$67,200	53%
	22010 Cold Creek Rd	Indian Springs									
2173	HOUSING UNIT #7		44500	2002	11/1/2016	\$871,092	\$3,683,516	\$1,635,000	\$6,189,608	\$15,575,000	40%
	22010 Cold Creek Rd	Indian Springs									
2087	HOUSING UNIT #2		44500	2000	11/1/2016	\$2,309,333	\$3,580,275	\$300,000	\$6,189,608	\$15,575,000	40%
	22010 Cold Creek Rd	Indian Springs									
2089	HOUSING UNIT #3		44500	2000	11/1/2016	\$2,309,333	\$3,580,275	\$300,000	\$6,189,608	\$15,575,000	40%
	22010 Cold Creek Rd	Indian Springs									
2086	HOUSING UNIT #1		44500	2000	11/1/2016	\$2,309,333	\$3,580,275	\$300,000	\$6,189,608	\$15,575,000	40%
	22010 Cold Creek Rd	Indian Springs									
2174	HOUSING UNIT #6		44500	2002	11/1/2016	\$871,092	\$3,683,516	\$1,635,000	\$6,189,608	\$15,575,000	40%
	22010 Cold Creek Rd	Indian Springs									
2175	HOUSING UNIT #5		44500	2002	11/1/2016	\$871,092	\$3,238,516	\$2,080,000	\$6,189,608	\$15,575,000	40%
	22010 Cold Creek Rd	Indian Springs									
2088	HOUSING UNIT #4		44500	2000	11/1/2016	\$2,304,833	\$3,880,275	\$0	\$6,185,108	\$15,575,000	40%
	22010 Cold Creek Rd	Indian Springs									
2099	SECURITY/ ADMINISTR	RATION	13241	2000	11/1/2016	\$114,928	\$1,654,905	\$1,500	\$1,771,333	\$4,634,350	38%
	22010 Cold Creek Rd	Indian Springs									
2090	INFIRMARY/ INTAKE		32986	2000	11/1/2016	\$524,138	\$2,728,516	\$824,650	\$4,077,304	\$11,545,100	35%
	22010 Cold Creek Rd	Indian Springs									
2097	MAINTENANCE/ CENTI	RAL PLANT	30151	2000	11/1/2016	\$1,006,983	\$2,404,393	\$452,265	\$3,863,641	\$11,306,625	34%
	22010 Cold Creek Rd	Indian Springs									
2098	ARMORY/EMERGENCY	Y RESPONSE	3405	2000	11/1/2016	\$127,840	\$209,300	\$1,500	\$338,640	\$1,021,500	33%
	22010 Cold Creek Rd	Indian Springs									
2178	WAREHOUSE/ MOTOR	POOL	37041	2002	11/1/2016	\$323,328	\$595,438	\$2,668,452	\$3,587,218	\$11,112,300	32%
	22010 Cold Creek Rd	Indian Springs									
2172	HOUSING UNIT #8		44500	2002	11/1/2016	\$871,092	\$2,329,275	\$1,635,000	\$4,835,367	\$15,575,000	31%
	22010 Cold Creek Rd	Indian Springs									
2094	ADMINISTRATION		11175	2000	11/1/2016	\$383,363	\$810,225	\$0	\$1,193,588	\$3,911,250	31%
	22010 Cold Creek Rd	Indian Springs									
2095	GATEHOUSE		6165	2000	11/1/2016	\$213,661	\$320,701	\$92,475	\$626,837	\$2,157,750	29%
	22010 Cold Creek Rd	Indian Springs									

Friday, August 25, 2017

Site num	ber: 9952	Facility Condition Ne	eds Index	Report		Cost to	Cost to	Cost to	Total Cost	Cost to	FCNI	
Index #	Building Name	_	Sq. Feet	Yr. Buil	Survey Date		Repair: P2	Repair: P3	to Repair	Replace		
2091	INMATE SERVICES/ CU	JLINARY/ DINING	77005	2000	11/1/2016	\$2,565,165	\$4,649,550	\$693,045	\$7,907,760	\$28,876,875	27%	
	22010 Cold Creek Rd	Indian Springs										
2092	PROGRAM SERVICES/ I	EDUCATION	33652	2000	11/1/2016	\$1,121,516	\$1,475,336	\$504,870	\$3,101,722	\$11,778,200	26%	
	22010 Cold Creek Rd	Indian Springs										
2103	TOWER #5		455	2002	11/1/2016	\$18,640	\$55,795	\$44,975	\$119,410	\$455,000	26%	
	22010 Cold Creek Rd	Indian Springs										
2104	TOWER #6		455	2002	11/1/2016	\$18,640	\$54,795	\$44,975	\$118,410	\$455,000	26%	
	22010 Cold Creek Rd	Indian Springs										
2093	VISITATION		11194	2000	11/1/2016	\$386,850	\$628,790	\$0	\$1,015,640	\$3,917,900	26%	
	22010 Cold Creek Rd	Indian Springs										
2506	GYMNASIUM		14620	2004	11/1/2016	\$126,860	\$633,210	\$540,940	\$1,301,010	\$5,117,000	25%	
	22010 Cold Creek Rd	Indian Springs										
2176	YARD TOWER		455	2000	11/1/2016	\$13,095	\$70,110	\$30,800	\$114,005	\$455,000	25%	
	22010 Cold Creek Rd	Indian Springs										
2177	TOWER #4		455	2002	11/1/2016	\$17,640	\$42,235	\$54,075	\$113,950	\$455,000	25%	
	22010 Cold Creek Rd	Indian Springs										
3776	PUMP HOUSE #2		840	2000	11/1/2016	\$5,000	\$34,800	\$0	\$39,800	\$168,000	24%	
	22010 Cold Creek Rd	Indian Springs										
3775	PUMP HOUSE #1		840	2000	11/1/2016	\$5,000	\$34,800	\$0	\$39,800	\$168,000	24%	
	22010 Cold Creek Rd	Indian Springs										
2947	HOUSING UNIT #10		51609	2009	11/1/2016	\$363,845	\$1,445,052	\$2,429,116	\$4,238,013	\$18,063,150	23%	
	22010 Cold Creek Rd	Indian Springs										
2948	HOUSING UNIT #11		51609	2009	11/1/2016	\$363,845	\$1,445,052	\$2,429,116	\$4,238,013	\$18,063,150	23%	
	22010 Cold Creek Rd	Indian Springs										
2945	HOUSING UNIT #9		51609	2008	11/1/2016	\$363,845	\$1,445,052	\$2,429,116	\$4,238,013	\$18,063,150	23%	
	22010 Cold Creek Rd	Indian Springs										
2946	HOUSING UNIT #12		52096	2008	11/1/2016	\$363,845	\$1,445,052	\$2,429,116	\$4,238,013	\$18,233,600	23%	
	22010 Cold Creek Rd	Indian Springs										
2507	PRISON INDUSTRIES		60000	2004	11/1/2016	\$532,000	\$1,689,000	\$2,520,000	\$4,741,000	\$21,000,000	23%	
	22010 Cold Creek Rd	Indian Springs										
2100	TOWER #1		455	2000	11/1/2016	\$18,640	\$61,710	\$21,700	\$102,050	\$455,000	22%	
	22010 Cold Creek Rd	Indian Springs										
2101	TOWER #2		455	2000	11/1/2016	\$18,640	\$61,710	\$21,700	\$102,050	\$455,000	22%	
	22010 Cold Creek Rd	Indian Springs										

Friday, August 25, 2017

Site num	nber: 9952	Facility Condition Nee	eds Index I	Report		Cost to	Cost to	Cost to	Total Cost	Cost to	
Index #	Building Name		Sq. Feet	Yr. Buil	Survey Date		Repair: P2	Repair: P3	to Repair	Replace	FCNI
2102	TOWER #3		455	2000	11/1/2016	\$18,640	\$61,710	\$21,700	\$102,050	\$455,000	22%
	22010 Cold Creek Rd	Indian Springs									
3774	HAZMAT BUILDING		64	2000	11/1/2016	\$0	\$2,240	\$0	\$2,240	\$12,800	18%
	22010 Cold Creek Rd	Indian Springs									
2505	STORAGE BUILDING		144	2002	11/1/2016	\$0	\$2,880	\$0	\$2,880	\$28,800	10%
	22010 Cold Creek Rd	Indian Springs									
3225	HDSP WATER TANK #3		1859	1998	11/1/2016	\$12,000	\$23,590	\$0	\$35,590	\$1,650,000	2%
	22010 Cold Creek Rd	Indian Springs									
3223	HDSP WATER TANK #1		2952	1978	11/1/2016	\$12,000	\$59,040	\$0	\$71,040	\$4,262,500	2%
	22010 Cold Creek Rd	Indian Springs									
3224	HDSP WATER TANK #2		2952	1998	11/1/2016	\$12,000	\$34,520	\$0	\$46,520	\$4,262,500	1%
	22010 Cold Creek Rd	Indian Springs									
9952	HIGH DESERT STATE PI	RISON SITE		2000	11/1/2016	\$2,657,880	\$340,000	\$603,138	\$3,601,018		0%
	22010 Cold Creek Rd	Indian Springs									
		Report Totals:	906,586	5		\$24,446,324	\$52,088,807	\$26,747,105	\$103,282,236	\$327,206,700	32%

Friday, August 25, 2017

Acronyms List

Acronym	Definition
Building Codes, Laws, Regulations and Guidelines	
AWWA	American Water Works Association
IBC	International Building Code
ICC	International Code Council
IEBC	International Existing Building Code
IECC	International Energy Conservation Code
IFC	International Fire Code
IFGC	International Fuel Gas Code
IRC	International Residential Code
NFPA	National Fire Protection Association
NEC	National Electrical Code
OSHA	Occupational Safety and Health Administration
SAD	Standards for Accessible Design
SMACNA	Sheet Metal and Air Conditioning Contractors
	National Association
UMC	Uniform Mechanical Code
UPC	Uniform Plumbing Code
State of Nevada	
CIP	Capital Improvement Project
FCA	Facility Condition Analysis
FCNI	Facility Condition Needs Index
FRC	Facility Replacement Cost
NAC	Nevada Administrative Code
NDEP	Nevada Department of Environmental Protection
NRS	Nevada Revised Statutes
SFM	State Fire Marshal
SHPO	State Historic Preservation Office
SPWD	State Public Works Division
Miscellaneous	
DDC	Direct Digital Controls
FRP	Fiberglass Reinforced Plastic
GFCI	Ground Fault Circuit Interrupter
LED	Light Emitting Diode
PRV	Pressure Regulating Valve
TDD	Telecommunications Device for the Deaf
VCT	Vinyl Composite Tile

This is a generic acronym list of commonly used terms in the construction industry. Some or all of these acronyms are used throughout the report.

Table of Contents

Building Name	Index #
HIGH DESERT STATE PRISON SITE	9952
PUMP HOUSE #2	3776
PUMP HOUSE #1	3775
HAZMAT BUILDING	3774
HDSP WATER TANK #3	3225
HDSP WATER TANK #2	3224
HDSP WATER TANK #1	3223
HOUSING UNIT #11	2948
HOUSING UNIT #10	2947
HOUSING UNIT #12	2946
HOUSING UNIT #9	2945
PRISON INDUSTRIES	2507
GYMNASIUM	2506
STORAGE BUILDING	2505
WAREHOUSE/ MOTOR POOL	2178
TOWER #4	2177
YARD TOWER	2176
HOUSING UNIT #5	2175
HOUSING UNIT #6	2174
HOUSING UNIT #7	2173
HOUSING UNIT #8	2172
TOWER #6	2104
TOWER #5	2103
TOWER #3	2102
TOWER #2	2101
TOWER #1	2100
SECURITY/ ADMINISTRATION	2099
ARMORY/ EMERGENCY RESPONSE	2098
MAINTENANCE/ CENTRAL PLANT	2097
SALLYPORT	2096
GATEHOUSE	2095
ADMINISTRATION	2094
VISITATION	2093

PROGRAM SERVICES/ EDUCATION	2092
INMATE SERVICES/ CULINARY/ DINING	2091
INFIRMARY/ INTAKE	2090
HOUSING UNIT #3	2089
HOUSING UNIT #4	2088
HOUSING UNIT #2	2087
HOUSING UNIT #1	2086

HIGH DESERT STATE PRISON SITE SPWD Facility Condition Analysis - 9952

Survey Date: 11/1/2016

HIGH DESERT STATE PRISON SITE BUILDING REPORT

The High Desert State Prison is located 40 miles north of Las Vegas on the west side of Highway 95. It is the largest correctional facility within the Department of Corrections. High Desert was designed to incorporate the best technology available to corrections to provide for officer safety and for the management and control of inmates. The complex totals approximately 1,576,000 square feet of space. The institution opened September 1, 2000 and is the reception unit for Southern Nevada.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$2,657,880

Currently Critical

Immediate to Two Years

SECURITY SYSTEM INSTALLATION

Project Index #: 9952SEC1 Construction Cost \$2,417,400

9952PLM2

\$240,480

The building does not have a security system. This project recommends installing video monitoring and recording equipment in every common inmate area and visitor area throughout the High Desert State Prison. This project would also include camera installation in all housing units.

WELL UPGRADE Project Index #:

Construction Cost

The construction of Well #6 was accomplished with CIP project (13-C04). This project would include construction of a well house with associated equipment and connection to the existing water distribution system at High Desert State Prison.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$340,000

Necessary - Not Yet Critical Two to Four Years

Project Index #: 9952ELE2
ELECTRICAL EQUIPMENT SURVEY

Construction Cost \$95,000

The electrical systems are original to the site and should be evaluated to reduce possibility of a fire hazard, equipment down time or energy loss. There seems to be loose connections and electrical deficiencies and repairs needed. It is recommended to perform an infrared and ultrasonic inspection on all electrical site-wide and sample the oil in all oil filled transformers. This project would provide for an electrical engineer to conduct analysis of the current electrical and to recommend a preventative maintenance plan and necessary repairs. Other projects may arise from this survey.

HIGH MAST LAMP REPLACEMENT

Project Index #: 9952ELE1 Construction Cost \$225,000

There are 45 high mast security light poles throughout the facility that have 10 security lamps each. Many of the lamps were burned out at the time of this survey and should be scheduled for replacement. This project would provide for the purchase and installation of 450 LEDs and retrofit the fixtures for the high mast security light poles. The cost includes the removal and the disposal of the existing lamps and fixtures.

Project Index #: 9952ENV1
PIGEON ABATEMENT Construction Cost \$20,000

The site and buildings have been inhabited by pigeons. The birds introduce a potential risk of disease, cause maintenance problems with the mechanical systems and cost labor time for general clean-up. This project provides for removal and disposal of pigeon debris, eggs and carcasses from the site and buildings by a licensed pest control business. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

25-Aug-17 Page 1 of 135

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$603,138

Long-Term Needs Four to Ten Years

Project Index #: 9952SIT1
SLURRY SEAL ASPHALT PAVING Construction Cost \$603,138

It is important to maintain the asphalt concrete paving on the site. This project would provide for minor crack filling and slurry sealing of the paving site wide including access roads and parking areas. Striping is included in this estimate. Thi project should be scheduled on a 5 year cyclical basis to maintain the integrity of the paving and prevent premature failure. 504,110 square feet of asphalt area was used to generate this estimate.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1: \$2,657,880 Priority Class 2: \$340,000 Priority Class 3: \$603,138

Grand Total: \$3,601,018

25-Aug-17 Page 2 of 135

PUMP HOUSE #2

SPWD Facility Condition Analysis - 3776

Survey Date: 11/21/2016

PUMP HOUSE #2 BUILDING REPORT

The Pump House #2 is a facility that has pumps and equipment for pumping water from the wells to the prison. It has a concrete slab-on-grade foundation, CMU walls and a single-ply membrane roof. The pump house has a 1200 amp panel, two roll up doors, one man door and is a conditioned space with a roof top HVAC system.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$5,000

Currently Critical Immediate to Two Years

EXTERIOR LANDING INSTALLATION

There is an out-swinging exterior door from the building which swings out over a step and does not have a landing. IBC Section 1008 requires a landing to be not more than 1/2" below the threshold. This project would provide for the installation of a compliant landing for the door.

3776SFT1

\$5,000

Project Index #:

Construction Cost

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$34,800

Necessary - Not Yet Critical Two to Four Years

Project Index #: 3776EXT1
CONCRETE APRON INSTALLATION Construction Cost \$2,400

There are two rollup doors that don't have concrete aprons on the outside of the building. This project would provide for the installation of two new 120 square foot 4" thick concrete slab-on-grade aprons.

Project Index #: 3776EXT2
EXTERIOR FINISHES Construction Cost \$8.400

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete masonry units and caulking flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

Project Index #: 3776INT1
INTERIOR FINISHES
Construction Cost \$8,400

It is recommended to repair and seal the interior concrete block walls at least once in the 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped.

Project Index #: 3776ELE1
PANIC HARDWARE IN ELECTRICAL ROOMS

Project Index #: 3776ELE1
Construction Cost \$3,000

The Pump House with the uninterruptable power supply contains equipment that meets or exceeds 1,200 amps. It is recommended per the 2012 IBC 1008.1.10 that panic and fire exit hardware be installed. This equipment was not required when the building was constructed. When a remodel occurs, it is suggested to comply with current code. It is recommended that this project be completed within 2-3 years. The estimate is based on one door that requires panic hardware.

25-Aug-17 Page 3 of 135

ROOF REPLACEMENT Project Index #: 3776EXT3
Construction Cost \$12,600

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

BUILDING INFORMATION:

Gross Area (square feet): 840

Year Constructed: 2000

Exterior Finish 1: 100 # Painted CMU

Exterior Finish 2: 0 #

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 0 #
IBC Occupancy Type 2: 0 #

Construction Type: IBC Construction Type:

Percent Fire Suppressed: 0 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$47.38	Project Construction Cost per Square Foot	\$5,000	Priority Class 1:
\$168,000	Total Facility Replacement Construction Cost	\$34,800	Priority Class 2:
\$200	Facility Replacement Cost per Square Foot	\$0	Priority Class 3:
24%	FCNI:	\$39.800	Grand Total:

25-Aug-17 Page 4 of 135

PUMP HOUSE #1

SPWD Facility Condition Analysis - 3775

Survey Date: 11/21/2016

PUMP HOUSE #1 BUILDING REPORT

The Pump House #1 is a facility that has pumps and equipment for pumping water from the wells to the prison. It has a concrete slab-on-grade foundation, CMU walls and a single-ply membrane roof. The pump house has a 1200 amp panel, two roll up doors, one man door and is a conditioned space with a roof top HVAC system.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$5,000

Currently Critical Immediate to Two Years

EXTERIOR LANDING INSTALLATION

There is an out-swinging exterior door from the building which swings out over a step and does not have a landing. IBC Section 1008 requires a landing to be not more than 1/2" below the threshold. This project would provide for the installation of a compliant landing for the door.

3775SFT1

\$5,000

Project Index #:

Construction Cost

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$34,800

Necessary - Not Yet Critical Two to Four Years

CONCRETE APRON INSTALLATION

Project Index #: 3775EXT1
Construction Cost \$2,400

There are two rollup doors that don't have concrete aprons on the outside of the building. This project would provide for the installation of two new 120 square foot 4" thick concrete slab-on-grade aprons.

Project Index #: 3775EXT2
EXTERIOR FINISHES Construction Cost \$8.400

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete masonry units and caulking flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

Project Index #: 3775INT1
INTERIOR FINISHES
Construction Cost \$8,400

It is recommended to repair and seal the interior concrete block walls at least once in the 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped.

PANIC HARDWARE IN ELECTRICAL ROOMS

Project Index #: 3775ELE1
Construction Cost \$3,000

The Pump House with the uninterruptable power supply contains equipment that meets or exceeds 1,200 amps. It is recommended per the 2012 IBC 1008.1.10 that panic and fire exit hardware be installed. This equipment was not required when the building was constructed. When a remodel occurs, it is suggested to comply with current code. It is recommended that this project be completed within 2-3 years. The estimate is based on one door that requires panic hardware.

25-Aug-17 Page 5 of 135

ROOF REPLACEMENT Project Index #: 3775EXT3
Construction Cost \$12,600

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

BUILDING INFORMATION:

Gross Area (square feet): 840

Year Constructed: 2000

Exterior Finish 1: 100 # Painted CMU

Exterior Finish 2: 0 #

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 0 #
IBC Occupancy Type 2: 0 #

Construction Type: IBC Construction Type:

Percent Fire Suppressed: 0 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$47.38	Project Construction Cost per Square Foot	\$5,000	Priority Class 1:
\$168,000	Total Facility Replacement Construction Cost	\$34,800	Priority Class 2:
\$200	Facility Replacement Cost per Square Foot	\$0	Priority Class 3:
24%	FCNI:	\$39,800	Grand Total:

25-Aug-17 Page 6 of 135

HAZMAT BUILDING

SPWD Facility Condition Analysis - 3774

Survey Date: 11/21/2016

HAZMAT BUILDING BUILDING REPORT

The Hazmat Building is a CMU structure designed for storage of materials deemed to be hazardous. It is a self-contained unit with a concrete slab-on-grade foundation and a single-ply membrane roofing system. The building has built in spill containment.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$2,240

Necessary - Not Yet Critical Two to Four Years

Project Index #: 3774EXT1
EXTERIOR FINISHES
Construction Cost \$640

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete masonry units and caulking flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

Project Index #: 3774INT1
INTERIOR FINISHES
Construction Cost \$640

It is recommended to repair and seal the interior concrete block walls at least once in the 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped.

ROOF REPLACEMENT Project Index #: 3774EXT2
Construction Cost \$960

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

25-Aug-17 Page 7 of 135

BUILDING INFORMATION:

Gross Area (square feet): 64

Year Constructed: 2000

Exterior Finish 1: 100 # Painted CMU

Exterior Finish 2: 0 #

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 0 # IBC Occupancy Type 2: 0 #

Construction Type: IBC Construction Type:

Percent Fire Suppressed: 0 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$35.00	Project Construction Cost per Square Foot	\$0	Priority Class 1:
\$13,000	Total Facility Replacement Construction Cost	\$2,240	Priority Class 2:
\$200	Facility Replacement Cost per Square Foot	\$0	Priority Class 3:
17%	FCNI:	\$2,240	Grand Total:

25-Aug-17 Page 8 of 135

HDSP WATER TANK #3

SPWD Facility Condition Analysis - 3225

Survey Date: 11/1/2016

HDSP WATER TANK #3 BUILDING REPORT

The HDSP Water Tank #3 is located on the south side of High Desert State Prison site. The tank is an above ground steel storage tank and has a 600,000 gallon capacity.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$12,000

Currently Critical Immediate to Two Years

GUARDRAIL INSTALLATION

Project Index #: 3225EXT2

Construction Cost \$12,000

The water tank is used to store water for fire protection. It is an AWWA D100 tank. 360° guardrails should be installed per NFPA 22 standards which designate the requirements for water tanks used for private fire protection. This project would provide for the purchase and installation of new guardrails to be located at the top of the water tank.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$23,590

Necessary - Not Yet Critical Two to Four Years

Project Index #: 3225EXT1
EXTERIOR FINISHES
Construction Cost \$18,590

It is important to maintain the finish, weather resistance and appearance of the water tank. This project would provide for the painting of the water tank and caulking of the joints to maintain it in a good, weather tight condition. It is recommended that this project be implemented in the next 2-3 years and is recommended on a cyclical basis based on environmental conditions.

Project Index #: 3225INT1
INTERIOR FINISHES Construction Cost \$5,000

It is important to maintain water quality, quantity and the interior finish of the water tank. This project would include hiring certified divers or draining the tank to inspect and clean the interior walls, and to weld, sandblast and perform repairs and add protective coatings, if needed. It is important to follow all ANSI, NSF and AWWA approved ways to disinfect and repair water tanks. The standard recommendation is to conduct a comprehensive inspection inside the water tank every 5 years, except for newly constructed tanks. Newly constructed water tanks should be inspected within 10 years of service and every 5 years thereafter.

25-Aug-17 Page 9 of 135

BUILDING INFORMATION:

Gross Area (square feet): 1,859

Year Constructed: 1998

Exterior Finish 1: 0 #

Exterior Finish 2: 0 #

Number of Levels (Floors): 0 Basement? No

IBC Occupancy Type 1: 0 #

IBC Occupancy Type 2: 0 #

Construction Type: IBC Construction Type:

Percent Fire Suppressed: 0

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$19.14	Project Construction Cost per Square Foot	\$12,000	Priority Class 1:
\$1,650,000	Total Facility Replacement Construction Cost	\$23,590	Priority Class 2:
\$888	Facility Replacement Cost per Square Foot	\$0	Priority Class 3:
2%	FCNI:	\$35,590	Grand Total:

25-Aug-17 Page 10 of 135

HDSP WATER TANK #2

SPWD Facility Condition Analysis - 3224

Survey Date: 11/1/2016

HDSP WATER TANK #2 BUILDING REPORT

The HDSP Water Tank #2 is located on the south west side of High Desert State Prison site. The tank is an above ground steel storage tank and has a 1.55 million gallon capacity.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$12,000

Currently Critical Immediate to Two Years

GUARDRAIL INSTALLATION

Project Index #: 3224EXT2
Construction Cost \$12,000

The water tank is used to store water for fire protection. It is an AWWA D100 tank. 360° guardrails should be installed per NFPA 22 standards which designate the requirements for water tanks used for private fire protection. This project would provide for the purchase and installation of new guardrails to be located at the top of the water tank.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$34,520

Necessary - Not Yet Critical Two to Four Years

Project Index #: 3224EXT1
EXTERIOR FINISHES Construction Cost \$29,520

It is important to maintain the finish, weather resistance and appearance of the water tank. This project would provide for the painting of the water tank and caulking of the joints to maintain it in a good, weather tight condition. It is recommended that this project be implemented in the next 2-3 years and is recommended on a cyclical basis based on environmental conditions.

Project Index #: 3224INT1
INTERIOR FINISHES
Construction Cost \$5,000

It is important to maintain water quality, quantity and the interior finish of the water tank. This project would include hiring certified divers or draining the tank to inspect and clean the interior walls, and to weld, sandblast and perform repairs and add protective coatings, if needed. It is important to follow all ANSI, NSF and AWWA approved ways to disinfect and repair water tanks. The standard recommendation is to conduct a comprehensive inspection inside the water tank every 5 years, except for newly constructed tanks. Newly constructed water tanks should be inspected within 10 years of service and every 5 years thereafter.

25-Aug-17 Page 11 of 135

BUILDING INFORMATION:

Gross Area (square feet): 2,952

Year Constructed: 1998

Exterior Finish 1: 0 #

Exterior Finish 2: 0 #

Number of Levels (Floors): 0 Basement? No

IBC Occupancy Type 1: 0

IBC Occupancy Type 2: 0 #

Construction Type: IBC Construction Type:

Percent Fire Suppressed: 0

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$15.76	Project Construction Cost per Square Foot	: \$1	Priority Class 1:
\$4,262,000	Total Facility Replacement Construction Cost	: \$3	Priority Class 2:
\$1,444	Facility Replacement Cost per Square Foot	:	Priority Class 3:
1%	FCNI:	\$4	Grand Total:

25-Aug-17 Page 12 of 135

HDSP WATER TANK #1

SPWD Facility Condition Analysis - 3223

Survey Date: 11/1/2016

HDSP WATER TANK #1 BUILDING REPORT

The HDSP Water Tank #1 is located on the south west side of High Desert State Prison site. The tank is an above ground steel storage tank and has a 1.55 million gallon capacity.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$12,000

Currently Critical Immediate to Two Years

GUARDRAIL INSTALLATION Project Index #: 3223EXT2
Construction Cost \$12,000

The water tank is used to store water for fire protection. It is an AWWA D100 tank. 360° guardrails should be installed per NFPA 22 standards which designate the requirements for water tanks used for private fire protection. This project would provide for the purchase and installation of new guardrails to be located at the top of the water tank.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$59,040

Necessary - Not Yet Critical Two to Four Years

Project Index #: 3223EXT1
EXTERIOR FINISHES Construction Cost \$29,520

It is important to maintain the finish, weather resistance and appearance of the water tank. This project would provide for the painting of the water tank and caulking of the joints to maintain it in a good, weather tight condition. It is recommended that this project be implemented in the next 2-3 years and is recommended on a cyclical basis based on environmental conditions.

Project Index #: 3223INT1
INTERIOR FINISHES Construction Cost \$29,520

It is important to maintain water quality, quantity and the interior finish of the water tank. This project would include hiring certified divers or draining the tank to inspect and clean the interior walls, and to weld, sandblast and perform repairs and add protective coatings, if needed. It is important to follow all ANSI, NSF and AWWA approved ways to disinfect and repair water tanks. The standard recommendation is to conduct a comprehensive inspection inside the water tank every 5 years, except for newly constructed tanks. Newly constructed water tanks should be inspected within 10 years of service and every 5 years thereafter.

25-Aug-17 Page 13 of 135

BUILDING INFORMATION:

Gross Area (square feet): 2,952

Year Constructed: 1978

Exterior Finish 1: 0 #

Exterior Finish 2: 0 #

Number of Levels (Floors): 0 Basement? No

IBC Occupancy Type 1: 0

IBC Occupancy Type 2: 0 #

Construction Type: IBC Construction Type:

Percent Fire Suppressed: 0 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$24.07	Project Construction Cost per Square Foot	\$12,000	Priority Class 1:
\$4,262,000	Total Facility Replacement Construction Cost	\$59,040	Priority Class 2:
\$1,444	Facility Replacement Cost per Square Foot	\$0	Priority Class 3:
2%	FCNI:	\$71,040	Grand Total:

25-Aug-17 Page 14 of 135

HOUSING UNIT #11

SPWD Facility Condition Analysis - 2948

Survey Date: 11/1/2016

HOUSING UNIT #11 BUILDING REPORT

The Housing Unit #11 is constructed with tilt-up pre-cast concrete walls, a slab-on-grade foundation and a single-ply membrane roofing system. It has 168 cells, one (1) main security control room and is rated at 280 inmates.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects:

\$363,845

Currently Critical

Immediate to Two Years

ADA TABLE UPGRADE

Project Index #: 2948ADA1 **Construction Cost** \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

> **Project Index #:** 2948SEC1 **Construction Cost** \$258,045

COMMUNICATIONS SYSTEM UPGRADE

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

EXHAUST FAN INSTALLATION

Project Index #: 2948HVA2 **Construction Cost** \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2948SFT2 **Construction Cost** \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

FLOOR DRAIN REPAIR

Project Index #: 2948PLM1 **Construction Cost** \$2,000

The floor drain in the building is clogged and water has pooled around it. The standing water will prematurely deteriorate the building components as well as create a slipping hazard. This project would provide for a licensed contractor to clear the drain and provide any necessary repairs to prevent future problems.

ROOF HATCH REPLACEMENT

Project Index #: 2948SFT3 **Construction Cost** \$5,000

The roof hatch is original to the building and has reached the end of its useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for removal and disposal of the existing roof hatch and purchase and installation of a new roof hatch.

> 25-Aug-17 Page 15 of 135

SPRINKLER HEAD REPLACEMENT

Project Index #: 2948SFT1 Construction Cost \$16,800

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION

Project Index #: 2948ADA2 Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$1,445,052

Necessary - Not Yet Critical Two to Four Years

EXTERIOR FINISHES

Project Index #: 2948EXT1 Construction Cost \$516.090

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is the caulking and sealing of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be caulked and sealed in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

INTERIOR FINISHES

Project Index #: 2948INT1 Construction Cost \$516,090

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

LIGHTING UPGRADE

Project Index #: 2948ENR1 Construction Cost \$412,872

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$2,429,116

Long-Term Needs Four to Ten Years

Project Index #: 2948SEC2 Construction Cost \$421,875

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

Housing Unit 11 was constructed in 2009. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. A total of 168 doors were used for this estimate. Removal and disposal of the existing equipment is included in this estimate.

CELL WATER CONTROL SYSTEMS REPLACEMENT

Project Index #: 2948PLM3 Construction Cost \$504,000

This building is equipped with cell water control systems that are outdated and should be scheduled for replacement. Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

25-Aug-17 Page 16 of 135

Project Index #: 2948PLM5 Construction Cost \$50,000

Construction Cost \$1.438.241

2948ELE2

2948PLM4

\$15,000

Project Index #:

Project Index #:

Construction Cost

COMPUTER WATER CONTROL SYSTEM REPLACEMENT

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

BUILDING INFORMATION:

Gross Area (square feet): 51,609

Year Constructed: 2009

Exterior Finish 1: 100 # Tilt-up Concrete

Exterior Finish 2: 0 #

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: 0 #

Construction Type: Tilt-up Concrete

IBC Construction Type: II-B
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1:	\$363,845	Project Construction Cost per Square Foot	\$82.12
Priority Class 2:	\$1,445,052	Total Facility Replacement Construction Cost	\$18,063,000
Priority Class 3:	\$2,429,116	Facility Replacement Cost per Square Foot	\$350
Grand Total:	\$4,238,013	FCNI:	23%

25-Aug-17 Page 17 of 135

HOUSING UNIT #10

SPWD Facility Condition Analysis - 2947

Survey Date: 11/1/2016

HOUSING UNIT #10 BUILDING REPORT

The Housing Unit #10 is constructed with tilt-up pre-cast concrete walls, a slab-on-grade foundation and a single-ply membrane roofing system. It has 168 cells, one (1) main security control room and is rated at 280 inmates.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$363,845

Currently Critical Immediate to Two Years

ADA TABLE UPGRADE Project Index #: 2947ADA1
Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

Project Index #: 2947SEC1
COMMUNICATIONS SYSTEM UPGRADE Construction Cost \$258,045

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

Project Index #: 2947HVA1
EXHAUST FAN INSTALLATION Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2947SFT2

Sometimes Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

FLOOR DRAIN REPAIR Project Index #: 2947PLM1
Construction Cost \$2,000

The floor drain in the building is clogged and water has pooled around it. The standing water will prematurely deteriorate the building components as well as create a slipping hazard. This project would provide for a licensed contractor to clear the drain and provide any necessary repairs to prevent future problems.

ROOF HATCH REPLACEMENT

Project Index #: 2947SFT3
Construction Cost \$5,000

The roof hatch is original to the building and has reached the end of its useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for removal and disposal of the existing roof hatch and purchase and installation of a new roof hatch.

25-Aug-17 Page 18 of 135

SPRINKLER HEAD REPLACEMENT

Project Index #: 2947SFT1 Construction Cost \$16,800

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION

Project Index #: 2947ADA2 Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$1,445,052

Necessary - Not Yet Critical Two to Four Years

EXTERIOR FINISHES

Project Index #: 2947EXT1 Construction Cost \$516,090

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is the caulking and sealing of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be caulked and sealed in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

INTERIOR FINISHES

Project Index #: 2947INT1 Construction Cost \$516,090

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

LIGHTING UPGRADE

Project Index #: 2947ENR1 Construction Cost \$412,872

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$2,429,116

Long-Term Needs Four to Ten Years

Project Index #: 2947SEC2 Construction Cost \$421,875

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

Housing Unit 10 was constructed in 2009. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. A total of 168 doors were used for this estimate. Removal and disposal of the existing equipment is included in this estimate.

CELL WATER CONTROL SYSTEMS REPLACEMENT

Project Index #: 2947PLM3 Construction Cost \$504,000

This building is equipped with cell water control systems that are outdated and should be scheduled for replacement. Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

25-Aug-17 Page 19 of 135

Project Index #: 2947PLM5 Construction Cost \$50,000

Construction Cost \$1.438.241

2947ELE2

2947PLM4

\$15,000

Project Index #:

Project Index #:

Construction Cost

COMPUTER WATER CONTROL SYSTEM REPLACEMENT

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

BUILDING INFORMATION:

Gross Area (square feet): 51,609

Year Constructed: 2009

Exterior Finish 1: 100 # Tilt-up Concrete

Exterior Finish 2: 0 #

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: 0 #

Construction Type: Tilt-up Concrete

IBC Construction Type: II-B
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1:	\$363,845	Project Construction Cost per Square Foot	\$82.12
Priority Class 2:	\$1,445,052	Total Facility Replacement Construction Cost	\$18,063,000
Priority Class 3:	\$2,429,116	Facility Replacement Cost per Square Foot	\$350
Grand Total:	\$4,238,013	FCNI:	23%

25-Aug-17 Page 20 of 135

HOUSING UNIT #12

Currently Critical

SPWD Facility Condition Analysis - 2946

Survey Date: 11/1/2016

HOUSING UNIT #12 BUILDING REPORT

The Housing Unit #12 is constructed with tilt-up pre-cast concrete walls, a slab-on-grade foundation and a single-ply membrane roofing system. It has 168 cells, one (1) main security control room and is rated at 280 inmates.

PRIORITY CLASS 1 PROJECTS Total

Total Construction Cost for Priority 1 Projects: \$363,845

Immediate to Two Years

ADA TABLE UPGRADE Project Index #: 2946ADA1

Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

Project Index #: 2946SEC1
COMMUNICATIONS SYSTEM UPGRADE Construction Cost \$258,045

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

EXHAUST FAN INSTALLATION

Project Index #: 2946HVA1
Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2946SFT2

Sometimes Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

FLOOR DRAIN REPAIR Project Index #: 2946PLM1
Construction Cost \$2,000

The floor drain in the building is clogged and water has pooled around it. The standing water will prematurely deteriorate the building components as well as create a slipping hazard. This project would provide for a licensed contractor to clear the drain and provide any necessary repairs to prevent future problems.

ROOF HATCH REPLACEMENT Project Index #: 2946SFT3
Construction Cost \$5,000

The roof hatch is original to the building and has reached the end of its useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for removal and disposal of the existing roof hatch and purchase and installation of a new roof hatch.

25-Aug-17 Page 21 of 135

SPRINKLER HEAD REPLACEMENT

Project Index #: 2946SFT1 Construction Cost \$16,800

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION

Project Index #: 2946ADA2 Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$1,445,052

Necessary - Not Yet Critical Two to Four Years

EXTERIOR FINISHES

Project Index #: 2946EXT1 Construction Cost \$516.090

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is the caulking and sealing of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be caulked and sealed in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

INTERIOR FINISHES

Project Index #: 2946INT1 Construction Cost \$516,090

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

LIGHTING UPGRADE

Project Index #: 2946ENR1 Construction Cost \$412,872

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$2,429,116

Long-Term Needs Four to Ten Years

Project Index #: 2946SEC2 Construction Cost \$421,875

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

Housing Unit 12 was constructed in 2008. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. A total of 168 doors were used for this estimate. Removal and disposal of the existing equipment is included in this estimate.

CELL WATER CONTROL SYSTEMS REPLACEMENT

Project Index #: 2946PLM3 Construction Cost \$504,000

This building is equipped with cell water control systems that are outdated and should be scheduled for replacement. Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

25-Aug-17 Page 22 of 135

Project Index #: 2946PLM5 Construction Cost \$50,000

Construction Cost \$1.438.241

2946ELE2

2946PLM4

\$15,000

Project Index #:

Project Index #:

Construction Cost

COMPUTER WATER CONTROL SYSTEM REPLACEMENT

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/ inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

BUILDING INFORMATION:

Gross Area (square feet): 52,096

Year Constructed: 2008

Exterior Finish 1: 100 # Tilt-up Concrete

Exterior Finish 2: 0 #

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: 0 #

Construction Type:

IBC Construction Type: II-B
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1:	\$363,845	Project Construction Cost per Square Foot	\$81.35
Priority Class 2:	\$1,445,052	Total Facility Replacement Construction Cost	\$18,234,000
Priority Class 3:	\$2,429,116	Facility Replacement Cost per Square Foot	\$350
Grand Total:	\$4,238,013	FCNI:	23%

25-Aug-17 Page 23 of 135

HOUSING UNIT #9

SPWD Facility Condition Analysis - 2945

Survey Date: 11/1/2016

HOUSING UNIT #9 BUILDING REPORT

The Housing Unit #9 is constructed with tilt-up pre-cast concrete walls, a slab-on-grade foundation and a single-ply membrane roofing system. It has 168 cells, one (1) main security control room and is rated at 280 inmates.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$363,845

Currently Critical Immediate to Two Years

ADA TABLE UPGRADE Project Index #: 2945ADA1

Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

Project Index #: 2945SEC1
COMMUNICATIONS SYSTEM UPGRADE Construction Cost \$258,045

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

EXHAUST FAN INSTALLATION

Project Index #: 2945HVA1

Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2945SFT2

Sometimes Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

FLOOR DRAIN REPAIR Project Index #: 2945PLM1
Construction Cost \$2,000

The floor drain in the building is clogged and water has pooled around it. The standing water will prematurely deteriorate the building components as well as create a slipping hazard. This project would provide for a licensed contractor to clear the drain and provide any necessary repairs to prevent future problems.

ROOF HATCH REPLACEMENT Project Index #: 2945SFT3
Construction Cost \$5,000

The roof hatch is original to the building and has reached the end of its useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for removal and disposal of the existing roof hatch and purchase and installation of a new roof hatch.

25-Aug-17 Page 24 of 135

SPRINKLER HEAD REPLACEMENT

Project Index #: 2945SFT1 Construction Cost \$16,800

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION

Project Index #: 2945ADA2 Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$1,445,052

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2945EXT1
EXTERIOR FINISHES Construction Cost \$516,090

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is the caulking and sealing of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be caulked and sealed in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

Project Index #: 2945INT1
INTERIOR FINISHES Construction Cost \$516,090

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

LIGHTING UPGRADE Project Index #: 2945ENR1
Construction Cost \$412,872

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$2,429,116

Long-Term Needs Four to Ten Years

Project Index #: 2945SEC2
CELL DOORS, LOCKS AND CONTROLS REPLACEMENT Construction Cost \$421,875

Housing Unit 9 was constructed in 2008. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. A total of 168 doors were used for this estimate. Removal and disposal of the existing equipment is included in this estimate.

Project Index #: 2945PLM3
CELL WATER CONTROL SYSTEMS REPLACEMENT Construction Cost \$504,000

This building is equipped with cell water control systems that are outdated and should be scheduled for replacement. Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

25-Aug-17 Page 25 of 135

Project Index #: 2945PLM5 Construction Cost \$50,000

Construction Cost \$1.438.241

2945ELE2

2945PLM4

\$15,000

Project Index #:

Project Index #:

Construction Cost

COMPUTER WATER CONTROL SYSTEM REPLACEMENT

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/ inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

BUILDING INFORMATION:

Gross Area (square feet): 51,609

Year Constructed: 2008

Exterior Finish 1: 100 # Tilt-up Concrete

Exterior Finish 2: 0 #

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: 0 #

Construction Type:

IBC Construction Type: II-B
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1:	\$363,845	Project Construction Cost per Square Foot	\$82.12
Priority Class 2:	\$1,445,052	Total Facility Replacement Construction Cost	\$18,063,000
Priority Class 3:	\$2,429,116	Facility Replacement Cost per Square Foot	\$350
Grand Total:	\$4,238,013	FCNI:	23%

25-Aug-17 Page 26 of 135

PRISON INDUSTRIES

ADA UPGRADES

SPWD Facility Condition Analysis - 2507

Survey Date: 11/1/2016

PRISON INDUSTRIES BUILDING REPORT

The Prison Industries building is constructed of tilt-up pre-cast concrete walls, concrete floors, prefabricated steel roof trusses, metal decking and a single-ply membrane roof. The building is divided into 6 self-contained individual warehouses with self-leveling dock loaders and a small dining area for the inmates and staff. The building has full fire protection and has ADA compliant restrooms in all warehouse areas.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects:

ts: \$532,000

2507SFT2

2507SFT3

2507SFT1

\$30,000

\$9,000

\$480,000

Currently Critical Immediate to Two Years

Project Index #: 2507ADA2 Construction Cost \$1,000

Section 4.13.9 of the ADAAG states that handles, pulls, latches, locks and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. It is recommended that proper lever hardware be installed in this building to meet these requirements.

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

Project Index #: 2507ADA1
Construction Cost \$12,000

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

This building contains a water fountain that is not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

INSTALL EMERGENCY EGRESS LIGHTING

There is no emergency egress lighting in the warehouse sections. This project would provide for the purchase and installation of emergency egress lighting in each section. Connections to utilities are included in this estimate. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

25-Aug-17 Page 27 of 135

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$1,689,000

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2507EXT1
EXTERIOR FINISHES Construction Cost \$600,000

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete walls, painting the doors and trim and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2507INT1
INTERIOR FINISHES Construction Cost \$600,000

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2507ENR1
LIGHTING UPGRADE Construction Cost \$480,000

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

WATER HEATER REPLACEMENT

Project Index #: 2507PLM0
Construction Cost \$9,000

There are six 30 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$2,520,000

Long-Term Needs Four to Ten Years

Project Index #: 2507ELE1
ELECTRICAL AND COMMUNICATIONS UPGRADE Construction Cost \$900,000

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2507HVA1

Construction Cost \$900,000

The air handlers, fan coils and related equipment are original to the building, dating back to 2004. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 6-7 years to avoid possible failure and emergency funding for replacement.

25-Aug-17 Page 28 of 135

ROOF REPLACEMENT Project Index #: 2507EXT2
Construction Cost \$720,000

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2004. It is recommended that this building be re-roofed in the next 6-7 years to be consistent with the roofing program and the end of the warranty period.

BUILDING INFORMATION:

Gross Area (square feet): 60,000

Year Constructed: 2004

Exterior Finish 1: 100 # Painted Tilt-Up Conc

Exterior Finish 2: 0 #

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 # S-1

IBC Occupancy Type 2: 0

Construction Type: Tilt-Up Concrete and Steel

IBC Construction Type: I-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$79.02	Project Construction Cost per Square Foot	\$532,000	Priority Class 1:
\$21,000,000	Total Facility Replacement Construction Cost	\$1,689,000	Priority Class 2:
\$350	Facility Replacement Cost per Square Foot	\$2,520,000	Priority Class 3:
23%	FCNI:	\$4,741,000	Grand Total:

25-Aug-17 Page 29 of 135

GYMNASIUM

SPWD Facility Condition Analysis - 2506

Survey Date: 11/1/2016

GYMNASIUM BUILDING REPORT

The Gymnasium is constructed of concrete masonry unit walls, steel roof trusses, metal decking and a single-ply membrane roof. The building is used for physical activities and contains a band room, storage rooms, ADA compliant restrooms and a gun post on the upper level. The building has full fire protection.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$126,860

Currently Critical Immediate to Two Years

Project Index #: EMERGENCY EGRESS LIGHTING INSTALLATION Construction Cost

There is no emergency egress lighting in the band room or in the barber/ storage room areas. This project would provide for the purchase and installation of 2 emergency egress lights in these two rooms. Connections to existing utilities is included in this estimate.

2506SFT1

2506SFT2

\$116,960

Project Index #:

Construction Cost

\$900

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION Project Index #: 2506SFT3 Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$633,210

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2506EXT1 EXTERIOR FINISHES Construction Cost \$146,200

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete walls, painting the doors and trim and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

25-Aug-17 Page 30 of 135

Project Index #: 2506INT1
INTERIOR FINISHES Construction Cost \$146,200

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #:

Construction Cost

2506INT2

\$2,800

JANITORS CLOSET REPAIRS

The mop sink in the Janitors Closet has several cracks in the concrete and is leaking. This could lead to mold growth if not addressed. This project would provide for a new fiberglass mop sink and FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

Project Index #: 2506ENR1
LIGHTING UPGRADE Construction Cost \$116,960

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

WATER HEATER REPLACEMENT

Project Index #: 2506PLM1
Construction Cost \$1,750

There is a 66 gallon electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

WINDOW REPLACEMENT Project Index #: 2506EXT4
Construction Cost \$219,300

The existing windows in this building are of double pane wire mesh construction. Some are broken and all are not energy efficient. This project would provide for the removal and replacement of the windows with new dual pane security rated windows.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$540,940

Long-Term Needs Four to Ten Years

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2506HVA1
Construction Cost \$365,500

The air handlers, fan coils and related equipment are original to the building, dating back to 2004. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 4-5 years to avoid possible failure and emergency funding for replacement.

ROOF REPLACEMENT Project Index #: 2506EXT3
Construction Cost \$175,440

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2004. It is recommended that this building be re-roofed in the next 7-8 years to be consistent with the roofing program and the end of the warranty period.

25-Aug-17 Page 31 of 135

BUILDING INFORMATION:

Gross Area (square feet): 14,620

Year Constructed: 2004

Exterior Finish 1: 100 # Concrete Masonry U

Exterior Finish 2: 0 #

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # A-3

IBC Occupancy Type 2: 0 #

Construction Type: Concrete Masonry and Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$88.99	Project Construction Cost per Square Foot	\$126,860	Priority Class 1:
\$5,117,000	Total Facility Replacement Construction Cost	\$633,210	Priority Class 2:
\$350	Facility Replacement Cost per Square Foot	\$540,940	Priority Class 3:
25%	FCNI:	\$1,301,010	Grand Total:

25-Aug-17 Page 32 of 135

STORAGE BUILDING

SPWD Facility Condition Analysis - 2505

Survey Date: 11/1/2016

STORAGE BUILDING BUILDING REPORT

The Storage Building is located at the north side, outside of the secured area at High Desert State Prison. The building is 144 square feet, constructed of concrete masonry units, steel frame truss, and a single-ply membrane roof. The building is used for the supply of oil and grease for Motor Pool.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$2,880

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2505EXT1
EXTERIOR FINISHES
Construction Cost \$1,440

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is sanding, priming, painting and caulking of the flashing, fixtures and all other penetrations. It is recommended that the building be painted in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

Project Index #: 2505INT1
INTERIOR FINISHES
Construction Cost \$1,440

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and adequately prepared to receive the coating. An epoxy-based paint should be utilized in wet areas for durability.

BUILDING INFORMATION:

Gross Area (square feet): 144

Year Constructed: 2002

Exterior Finish 1: 100 # Precast Concrete

Exterior Finish 2: 0 #

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: 0 #

Construction Type:

IBC Construction Type: II-B

Percent Fire Suppressed: 0

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$20.00	Project Construction Cost per Square Foot	\$0	Priority Class 1:
\$29,000	Total Facility Replacement Construction Cost	\$2,880	Priority Class 2:
\$200	Facility Replacement Cost per Square Foot	\$0	Priority Class 3:
10%	FCNI:	\$2,880	Grand Total:

25-Aug-17 Page 33 of 135

WAREHOUSE/ MOTOR POOL

SPWD Facility Condition Analysis - 2178

Survey Date: 11/1/2016

WAREHOUSE/ MOTOR POOL BUILDING REPORT

The Warehouse/ Motor Pool building is located on the north side of the prison, outside of the secured area of High Desert State Prison. The building is constructed of concrete masonry units, prefabricated steel trusses, metal decking and has a single-ply membrane roof. The interior of the building consists of a motor pool/ equipment service area on the west side and a receiving/ warehouse area on the east side. There is a loading dock for large trucks and a parking area for employees.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$323,328

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

2178ADA1

2178SFT3

2178SFT4

\$9,000

\$296,328

\$8,000

Currently Critical Immediate to Two Years

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

This building contains two water fountains that are not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

LOADING DOCK Project Index #: 2178SFT2
Construction Cost \$10,000

The Warehouse/ Motor Pool has a loading dock. The loading dock is used by large trucks and tractor trailers to back in for loading and unloading supplies needed for the High Desert State Prison. There are no wheel blocks installed to prevent the movement of trucks or trailers loading or unloading, per OSHA 1910.178(m)(7) requirements. The forklifts are battery operated. Per OSHA 1910.178(g)(2), the charging area for the forklifts do not provide an area for; flushing and neutralizing spilled electrolytes; for fire protection; for protecting charging apparatus; from damage by trucks, and for adequate ventilation for dispersal of fumes for gassing batteries. This project addresses the installation of blocks for the loading ramp, installation of two bollards to protect the battery charging/ flushing area in case of spills and provide adequate ventilation for dispersal of fumes for gassing batteries.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

25-Aug-17 Page 34 of 135

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$595,438

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2178HVA3
Construction Cost \$1,500

2178INT2

\$1,400

EXHAUST FAN REPLACEMENT

The exhaust fans in the restrooms serving the Warehouse/ Motor Pool building were inoperative and/or damaged at the time of the survey. Due to building code requirements and excessive humidity concerns, this project would provide funding for the purchase and installation of high volume commercial exhaust fans.

Project Index #: 2178EXT1
EXTERIOR FINISHES Construction Cost \$270,410

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete masonry units and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Froject Index #: 2178ELE1
GFCI OUTLETS

Construction Cost \$800

The existing receptacles next to the drinking fountain and eye wash station are standard duplex receptacles. The 2011 NEC Code 210.8 require these locations to have GFCI protection. This project would provide for removing the standard receptacles and installing GFCI receptacles.

JANITORS CLOSET REPAIRS

Project Index #:

Construction Cost

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the CMU walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

Project Index #: 2178ENR1
LIGHTING UPGRADE Construction Cost \$296,328

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

WATER TREATMENT SYSTEM REPLACEMENT

Project Index #: 2178PLM2

Construction Cost \$25,000

The existing water softening/ treatment systems in the building are currently not operational. They are original to the building and approaching the end of their lifecycles. Failure of the equipment causes wear and tear on the domestic water supply lines, plumbing fixtures and HVAC equipment. This project would provide for the replacement of the existing water softeners/ treatment systems with new equipment. This project would also provide for a chemical treatment program including an updated chemicals control system, service and employee training provided by a qualified water treatment vendor. The annual maintenance fee charged by the water treatment vendor would be determined after an investigation of the water system is complete. These annual costs are not included in this project cost. For budgeting purposes, a \$12,000 maintenance fee is suggested.

25-Aug-17 Page 35 of 135

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$2,668,452

Long-Term Needs

Four to Ten Years

ELECTRICAL AND COMMUNICATIONS UPGRADE

Project Index #: 2178ELE2 Construction Cost \$926,025

2178HVA2

2178EXT2

2178PLM1 \$1,500

\$444,492

\$926,025

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

HVAC EQUIPMENT REPLACEMENT

The existing HVAC system consists of ceiling mounted hydronic heaters, 8 packaged heat pumps, 10 swamp coolers and an Evapco cooling tower. The HVAC system was installed in 2002. The HVAC system is not energy efficient and has reached the end of its expected and useful life. This project would provide for installation of new HVAC equipment. The new systems shall be designed to significantly reduce utility usage in order to comply with the 2012 IECC and ASHRAE 90.1. This project includes removal and disposal of the existing HVAC system and all required connections to utilities.

Project Index #: 2178INT1
INTERIOR FINISHES Construction Cost \$370,410

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 4-5 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

ROOF REPLACEMENT

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2002. It is recommended that this building be re-roofed in the next 4-5 years to be consistent with the roofing program and the end of the warranty period.

WATER HEATER REPLACEMENT

There is a 50 gallon electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 8-9 years. It is recommended that a new electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

25-Aug-17 Page 36 of 135

BUILDING INFORMATION:

Gross Area (square feet): 37,041

Year Constructed: 2002

Exterior Finish 1: 100 # Natural Grey CMU

Exterior Finish 2: #

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 80 # S-1 IBC Occupancy Type 2: 20 # S-3

Construction Type: Concrete Masonry & Steel

IBC Construction Type: I-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$96.84	Project Construction Cost per Square Foot	\$323,328	Priority Class 1:
\$11,112,000	Total Facility Replacement Construction Cost	\$595,438	Priority Class 2:
\$300	Facility Replacement Cost per Square Foot	\$2,668,452	Priority Class 3:
32%	FCNI:	\$3,587,218	Grand Total:

25-Aug-17 Page 37 of 135

TOWER #4

SPWD Facility Condition Analysis - 2177

Survey Date: 11/1/2016

TOWER #4 BUILDING REPORT

Tower #4 is located on the north side, outside of the secured area at High Desert State Prison. The guard tower is constructed of precast concrete walls and has a concrete slab-on-grade foundation with a standing seam metal roofing system.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$17,640

Project Index #:

Construction Cost

2177SFT4

\$5,000

Currently Critical Immediate to Two Years

BACKFLOW PREVENTER REPLACEMENT

There is a backflow preventer for the fire suppression system in the building. It is leaking and should be scheduled for replacement. At the time of the survey the staff indicated they have rebuilt the backflow preventer several times, however it continues to leak. This project would provide for replacing the backflow preventer by a licensed fire suppression contractor.

FIRE ALARM SYSTEM REPLACEMENT Project Index #: 2177SFT2

Construction Cost \$3,640

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2177SFT3

Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$42,235

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2177SEC1
DOORS, LOCKS AND CONTROLS REPLACEMENT Construction Cost \$30,000

Tower #4 was constructed in 2002. The doors, locks and controls are original to the building and have been problematic due to age. This project would provide for installing new doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

Project Index #: 2177SFT5
EGRESS LIGHTING REPLACEMENT Construction Cost \$1,000

There are older emergency egress lighting units in this building. These units have a finite lifespan, and this project recommends their replacement with new egress lights, and to also provide additional lights on the main exit routes as needed.

25-Aug-17 Page 38 of 135

FLOORING REPLACEMENT

Project Index #: 2177INT2 Construction Cost \$4,095

The VCT flooring in Tower #4 is damaged and reaching the end of its useful life. It is recommended that the VCT flooring be replaced. This project would provide for removal and disposal of the VCT and installation of new 12x12 VCT with a 6" base.

Project Index #: 2177ENR1
LIGHTING UPGRADE Construction Cost \$3,640

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

Project Index #: 2177ENV2
PEST CONTROL
Construction Cost \$1,000

There are numerous bird and rodent droppings throughout this building. Due to the potential risk of disease, this project provides for treatment and cleanup of the pigeon and rodent droppings by a licensed pest control business.

WATER HEATER REPLACEMENT Project Index #: 2177PLM1
Construction Cost \$2,500

There is an on-demand electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new on-demand electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$54,075

Long-Term Needs Four to Ten Years

Project Index #: 2177EXT1
EXTERIOR FINISHES Construction Cost \$4,550

It is important to maintain the finish, weather resistance and appearance of the building. The caulked joints in the concrete panels form much of the exterior surface of this building, and are uniformly deteriorated. The caulking should be removed and the joints should be re-caulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2177HVA1
Construction Cost \$11,375

The HVAC unit was installed in 2002 and is not energy efficient. It has reached the end of its expected and useful life. This project would provide for the installation of a new HVAC unit and cleaning of the existing duct work and grilles. This project includes the removal and the disposal of the existing equipment and all required connections to the utilities.

Project Index #: 2177INT1
INTERIOR FINISHES
Construction Cost \$4,550

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and adequately prepared to receive the coating. An epoxy-based paint should be utilized in wet areas for durability. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

WINDOW REPLACEMENT Project Index #: 2177EXT2
Construction Cost \$33,600

The existing windows in this building are of single pane wire mesh construction. They are not energy efficient. This project would provide for the removal and replacement of the windows with new dual pane security rated windows.

25-Aug-17 Page 39 of 135

BUILDING INFORMATION:

Gross Area (square feet): 455

Year Constructed: 2002

Exterior Finish 1: 80 # Precast Concrete

Exterior Finish 2: 20 # Glass and Steel

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2:

Construction Type: Precast Concrete & Steel

IBC Construction Type: I-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$250.44	Project Construction Cost per Square Foot	\$17,640	Priority Class 1:
\$455,000	Total Facility Replacement Construction Cost	\$42,235	Priority Class 2:
\$1,000	Facility Replacement Cost per Square Foot	\$54,075	Priority Class 3:
25%	FCNI:	\$113.950	Grand Total:

25-Aug-17 Page 40 of 135

YARD TOWER

SPWD Facility Condition Analysis - 2176

Survey Date: 11/1/2016

YARD TOWER BUILDING REPORT

The Yard Tower is in the center of High Desert State Prison. The guard tower is a steel framed structure with insulated steel siding and a metal roof. The building is currently manned and is used to observe the prisoners in the center of the yard.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$13,095

Currently Critical Immediate to Two Years

Project Index #: 2176SFT4
EXIT SIGN AND EGRESS LIGHTING UPGRADE Construction Cost \$455

The building does not currently have exit signs and emergency egress lighting is insufficient. This project would provide for the purchase and installation of self-illuminated or LED style exit signs with battery-backed internal systems as well as emergency egress lighting to provide illumination along the egress route. IBC 2012 Chapter 10 was referenced for this project.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2176SFT1

Construction Cost \$3,640

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2176SFT2

Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$70,110

Necessary - Not Yet Critical Two to Four Years

BACKFLOW PREVENTER REPLACEMENT Project Index #: 2176PLM2
Construction Cost \$5,000

There is a backflow preventer for the fire suppression system in the building. It is leaking and should be scheduled for replacement. At the time of the survey the staff indicated they have rebuilt the backflow preventer several times, however it continues to leak. This project would provide for replacing the backflow preventer by a licensed fire suppression contractor.

25-Aug-17 Page 41 of 135

CONDENSER DUCTING

Project Index #: 2176ENR2
Construction Cost \$500

The condensing unit located on the middle level of the tower is missing the duct from the outside air intake louver to the condensing unit. This may be a cause for the overheating of the unit. This project would provide for replacing this missing duct and associated connections.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

2176SEC1

2176INT2

2176HVA1

\$11.375

\$4,095

\$30,000

DOORS, LOCKS AND CONTROLS REPLACEMENT

Yard Tower was constructed in 2000. The doors, locks and controls are original to the building and have been problematic due to age. This project would provide for installing new doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

FLOORING REPLACEMENT

The VCT flooring in the tower is damaged and reaching the end of its useful life. It is recommended that the VCT flooring be replaced. This project would provide for removal and disposal of the VCT and installation of new 12x12 VCT with a 6" base.

HVAC EQUIPMENT REPLACEMENT

The HVAC unit was installed in 2000 and is not energy efficient. It has reached the end of its expected and useful life. This project would provide for the installation of a new HVAC unit and cleaning of the existing duct work and grilles. This project includes the removal and the disposal of the existing equipment and all required connections to the utilities.

Project Index #: 2176ENR1
INSULATE BUILDING Construction Cost \$12,000

The tower walls are structural steel with metal siding. The condenser for the cooling system is located inside on the middle level of the tower. During the summer months, the metal siding radiates heat and causes the cooling unit to trip off due to extreme temperatures. This project would provide for 4" thick foil faced rigid insulation to be installed on the inside of the guard tower to help minimize the heat gain on the interior of the guard tower.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2176ENR3
LIGHTING UPGRADE Construction Cost \$3,640

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

PEST CONTROL

Project Index #: 2176ENV1
Construction Cost \$1,000

There are numerous bird and rodent droppings throughout this building. Due to the potential risk of disease, this project provides for treatment and cleanup of the pigeon and rodent droppings by a licensed pest control business.

WATER HEATER REPLACEMENT Project Index #: 2176PLM1 Construction Cost \$2,500

There is an on-demand electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new on-demand electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

25-Aug-17 Page 42 of 135

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$30,800

Project Index #:

Construction Cost

2176EXT3

\$2,500

Long-Term Needs Four to Ten Years

Project Index #: 2176EXT1 EXTERIOR FINISHES **Construction Cost** \$4,550

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is power washing, priming, painting the metal panels and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended to paint the building in the next 4-5 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2176INT1 INTERIOR FINISHES **Construction Cost** \$4,550

It is recommended to paint the interior walls and ceilings at least once in the next 4-5 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

SLIDING GLASS DOOR REPLACEMENT

The sliding glass door is damaged from age and general wear and tear and has reached the end of its expected life. This project would provide for the replacement of the sliding glass door assembly with a new door, frame and hardware. Removal and disposal of the existing door is included in this estimate.

Project Index #: 2176EXT2 WINDOW REPLACEMENT **Construction Cost** \$19,200

The existing windows in this building are of single pane wire mesh construction. They are not energy efficient. This project would provide for the removal and replacement of the windows with new dual pane security rated windows.

BUILDING INFORMATION:

Grand Total:

Gross Area (square feet): 455

Year Constructed: 2000

Exterior Finish 1: 80 # **Metal Siding**

Exterior Finish 2: 20 Glass and Steel

Number of Levels (Floors): 2 **Basement?**

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2:

Construction Type: Steel and Concrete

IBC Construction Type: I-A Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$114,005

\$250.56 **Priority Class 1:** \$13,095 **Project Construction Cost per Square Foot** \$455,000 **Priority Class 2:** \$70,110 **Total Facility Replacement Construction Cost** \$1,000 **Priority Class 3:** \$30,800 Facility Replacement Cost per Square Foot 25% FCNI:

> 25-Aug-17 Page 43 of 135

HOUSING UNIT #5

SPWD Facility Condition Analysis - 2175

Survey Date: 11/1/2016

HOUSING UNIT #5 BUILDING REPORT

The Housing Unit #5 is along the southeast secured side of High Desert State Prison. The building is constructed of tilt-up concrete walls, concrete floors at lower and upper levels, a concrete slab-on-grade foundation, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used to house inmates at the prison.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$871,092

Currently Critical Immediate to Two Years

ADA SHOWER UPGRADE Project Index #: 2175ADA4
Construction Cost \$75,000

This project would provide for three ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of three stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA TABLE UPGRADE

Project Index #: 2175ADA5
Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

Project Index #: 2175SEC1
COMMUNICATIONS SYSTEM UPGRADE Construction Cost \$222,500

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

Project Index #: 2175ADA3

Construction Cost \$4,000

This building contains a water fountain that is not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

Project Index #: 2175SFT4
ELECTRICAL OUTLET & CABLE UPGRADES Construction Cost \$74,592

At the time of the survey the building had residential and commercial cover plates over the electrical outlets and coaxial wires. This poses a safety hazard allowing inmates to remove them and use them as weapons. This could be a safety hazard to inmates and guards. This project would provide for the installation of new security grade cover plates throughout the entire housing unit.

25-Aug-17 Page 44 of 135

EVAPORATIVE COOLER REPLACEMENT

Project Index #: 2175HVA3 Construction Cost \$4,000

There is a guard stationed on the roof to look out onto the yard. They have one overhead swamp cooler to keep them cool in the warmer months. At the time of the survey the swamp cooler was not working. It is severely scaled and has reached the end of its useful and expected life. This project would provide for a new evaporative cooler to be installed including all required connections to utilities. The estimate includes removal and disposal of the old cooler.

EXHAUST FAN INSTALLATION

Project Index #: 2175HVA1 Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2175SFT1
Construction Cost \$356,000

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2175SFT3
Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

ROOF HATCH REPLACEMENT

Project Index #: 2175SFT5 Construction Cost \$10,000

The roof hatches are original to the building and have reached the end of their useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for the removal and the disposal of the existing roof hatches and for the purchase and installation of new roof hatches.

SPRINKLER HEAD REPLACEMENT

Project Index #: 2175SFT2 Construction Cost \$40,000

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION

Project Index #: 2175ADA2
Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

25-Aug-17 Page 45 of 135

Project Index #: 2175STR1 WALKWAY RAILING **Construction Cost** \$3,000

The perimeter roof walkway guardrail is failing. The railing is loose or not attached and is posing a potential safety problem. This project recommends an assessment be performed by a Structural Engineer to determine the cause and provide a design solution. Future projects will be based on the design solution recommendation.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$3,238,516

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost \$1.438.241

Construction Cost

2175SEC2

\$421.875

2175PLM2

2175SEC3

2175ELE1

\$5,000

Two to Four Years **Necessary - Not Yet Critical**

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

The Housing Unit was constructed in 2002. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

CELL WATER CONTROL SYSTEMS REPLACEMENT

Construction Cost \$504,000 This building is equipped with cell water control systems that are outdated and should be scheduled for replacement. Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project

includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing

utilities.

Project Index #: 2175PLM4 COMPUTER WATER CONTROL SYSTEM REPLACEMENT **Construction Cost** \$50,000

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/ inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

ELECTRICAL TRANSFORMER REPLACEMENT

The 50 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

> 25-Aug-17 Page 46 of 135

Project Index #: 2175INT1
INTERIOR FINISHES Construction Cost \$445,000

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

2175INT3

\$1,400

Project Index #:

Construction Cost

JANITORS CLOSET REPAIRS

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

LIGHTING UPGRADE Project Index #: 2175ENR1
Construction Cost \$356,000

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

Project Index #: 2175PLM3
Construction Cost \$15,000

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

WATER HEATER REPLACEMENT Project Index #: 2175PLM1
Construction Cost \$2,000

There are two 18 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that two new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$2,080,000

Long-Term Needs Four to Ten Years

EXTERIOR FINISHES

Project Index #: 2175EXT1

Construction Cost \$445,000

It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2175HVA2
Construction Cost \$667,500

The air handlers, fan coils and related equipment are original to the building, dating back to 2002. The equipment has consistent problems and has reached its expected life span. This project recommends the replacement of all air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 4-5 years to avoid possible failure and emergency funding for replacement.

25-Aug-17 Page 47 of 135

ROOF REPLACEMENT Project Index #: 2175EXT2
Construction Cost \$667,500

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2002. It is recommended that this building be re-roofed in the next 4-5 years to be consistent with the roofing program and the end of the warranty period.

SHOWER UPGRADE Project Index #: 2175INT2
Construction Cost \$300,000

There are twelve shower stalls in the building that are showing signs of failure and should be scheduled for repair or replacement. This project would provide for twelve stainless steel shower cabinets to be installed to provide shower facilities for the housing units. Removal and disposal of the existing materials is included in the estimate.

BUILDING INFORMATION:

Gross Area (square feet): 44,500

Year Constructed: 2002

Exterior Finish 1: 100 # Tilt-Up Concrete

Exterior Finish 2:

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: #

Construction Type: Tilt-Up Concrete

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$139.09	Project Construction Cost per Square Foot	\$871,092	Priority Class 1:
\$15,575,000	Total Facility Replacement Construction Cost	\$3,238,516	Priority Class 2:
\$350	Facility Replacement Cost per Square Foot	\$2,080,000	Priority Class 3:
40%	FCNI:	\$6,189,608	Grand Total:

25-Aug-17 Page 48 of 135

HOUSING UNIT #6

SPWD Facility Condition Analysis - 2174

Survey Date: 11/1/2016

HOUSING UNIT #6 BUILDING REPORT

The Housing Unit #6 is along the southeast secured side of High Desert State Prison. The building is constructed of tilt-up concrete walls, concrete floors at lower and upper levels, a concrete slab-on-grade foundation, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used to house inmates at the prison.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$871,092

Currently Critical Immediate to Two Years

ADA SHOWER UPGRADE Project Index #: 2174ADA4
Construction Cost \$75,000

This project would provide for three ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of three stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA TABLE UPGRADE Project Index #: 2174ADA1
Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

Project Index #: 2174SEC1
COMMUNICATIONS SYSTEM UPGRADE Construction Cost \$222,500

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

Project Index #: 2174ADA3

Construction Cost \$4,000

This building contains a water fountain that is not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

Project Index #: 2174SFT4
ELECTRICAL OUTLET & CABLE UPGRADES Construction Cost \$74,592

At the time of the survey the building had residential and commercial cover plates over the electrical outlets and coaxial wires. This poses a safety hazard allowing inmates to remove them and use them as weapons. This could be a safety hazard to inmates and guards. This project would provide for the installation of new security grade cover plates throughout the entire housing unit.

25-Aug-17 Page 49 of 135

EVAPORATIVE COOLER REPLACEMENT

Project Index #: 2174HVA3 Construction Cost \$4,000

There is a guard stationed on the roof to look out onto the yard. They have one overhead swamp cooler to keep them cool in the warmer months. At the time of the survey the swamp cooler was not working. It is severely scaled and has reached the end of its useful and expected life. This project would provide for a new evaporative cooler to be installed including all required connections to utilities. The estimate includes removal and disposal of the old cooler.

EXHAUST FAN INSTALLATION

Project Index #: 2174HVA1 Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2174SFT2
Construction Cost \$356,000

m. Parts cannot be obtained and due that the greatern has proposed at the construction of th

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2174SFT3
Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

ROOF HATCH REPLACEMENT

Project Index #: 2174SFT5
Construction Cost \$10,000

The roof hatches are original to the building and have reached the end of their useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for the removal and the disposal of the existing roof hatches and for the purchase and installation of new roof hatches.

SPRINKLER HEAD REPLACEMENT

Project Index #: 2174SFT1 Construction Cost \$40,000

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION Project Index #: 2174ADA2
Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

25-Aug-17 Page 50 of 135

Project Index #: 2174STR1 WALKWAY RAILING **Construction Cost** \$3,000

The perimeter roof walkway guardrail is failing. The railing is loose or not attached and is posing a potential safety problem. This project recommends an assessment be performed by a Structural Engineer to determine the cause and provide a design solution. Future projects will be based on the design solution recommendation.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$3,683,516

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost \$1,438,241

Construction Cost

2174SEC2

\$421.875

2174PLM4

2174SEC3

2174ELE1

\$5,000

\$50,000

Two to Four Years **Necessary - Not Yet Critical**

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

The Housing Unit was constructed in 2002. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

Project Index #: 2174PLM2 CELL WATER CONTROL SYSTEMS REPLACEMENT **Construction Cost** \$504,000 This building is equipped with cell water control systems that are outdated and should be scheduled for replacement.

Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

Project Index #: COMPUTER WATER CONTROL SYSTEM REPLACEMENT **Construction Cost**

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/ inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

ELECTRICAL TRANSFORMER REPLACEMENT

The 50 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

> 25-Aug-17 Page 51 of 135

Project Index #: 2174EXT1
EXTERIOR FINISHES Construction Cost \$445,000

It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2174INT1
INTERIOR FINISHES Construction Cost \$445,000

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

Construction Cost

2174INT3

2174PLM3

2174PLM1

2174HVA2

\$667,500

\$15,000

\$1,400

JANITORS CLOSET REPAIRS

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

Project Index #: 2174ENR1
LIGHTING UPGRADE Construction Cost \$356,000

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

WATER HEATER REPLACEMENT

There are two 18 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that two new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$1,635,000

Long-Term Needs Four to Ten Years

HVAC EQUIPMENT REPLACEMENT

The air handlers, fan coils and related equipment are original to the building, dating back to 2002. The equipment has consistent problems and has reached its expected life span. This project recommends the replacement of all air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 4-5 years to avoid possible failure and emergency funding for replacement.

25-Aug-17 Page 52 of 135

ROOF REPLACEMENT Project Index #: 2174EXT2
Construction Cost \$667,500

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2002. It is recommended that this building be re-roofed in the next 4-5 years to be consistent with the roofing program and the end of the warranty period.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

SHOWER UPGRADE Project Index #: 2174INT2
Construction Cost \$300,000

There are twelve shower stalls in the building that are showing signs of failure and should be scheduled for repair or replacement. This project would provide for twelve stainless steel shower cabinets to be installed to provide shower facilities for the housing units. Removal and disposal of the existing materials is included in the estimate.

BUILDING INFORMATION:

Gross Area (square feet): 44,500

Year Constructed: 2002

Exterior Finish 1: 100 # Tilt-Up Concrete

Exterior Finish 2: #

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: #

Construction Type: Tilt-Up Concrete & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$139.09 **Priority Class 1:** \$871,092 **Project Construction Cost per Square Foot** \$15,575,000 **Priority Class 2: Total Facility Replacement Construction Cost** \$3,683,516 \$350 **Priority Class 3:** \$1,635,000 Facility Replacement Cost per Square Foot 40% FCNI: **Grand Total:** \$6,189,608

25-Aug-17 Page 53 of 135

HOUSING UNIT #7

SPWD Facility Condition Analysis - 2173

Survey Date: 11/1/2016

HOUSING UNIT #7 BUILDING REPORT

The Housing Unit #7 is along the southeast secured side of High Desert State Prison. The building is constructed of tilt-up concrete walls, concrete floors at lower and upper levels, a concrete slab-on-grade foundation, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used to house inmates at the prison.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$871,092

Currently Critical Immediate to Two Years

ADA SHOWER UPGRADE Project Index #: 2173ADA4
Construction Cost \$75,000

This project would provide for three ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of three stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA TABLE UPGRADE Project Index #: 2173ADA1
Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

Project Index #: 2173SEC1
COMMUNICATIONS SYSTEM UPGRADE Construction Cost \$222,500

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

Project Index #: 2173ADA3

Construction Cost \$4,000

This building contains a water fountain that is not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

Project Index #: 2173SFT4
ELECTRICAL OUTLET & CABLE UPGRADES Construction Cost \$74,592

At the time of the survey the building had residential and commercial cover plates over the electrical outlets and coaxial wires. This poses a safety hazard allowing inmates to remove them and use them as weapons. This could be a safety hazard to inmates and guards. This project would provide for the installation of new security grade cover plates throughout the entire housing unit.

25-Aug-17 Page 54 of 135

EVAPORATIVE COOLER REPLACEMENT

Project Index #: 2173HVA3 Construction Cost \$4,000

There is a guard stationed on the roof to look out onto the yard. They have one overhead swamp cooler to keep them cool in the warmer months. At the time of the survey the swamp cooler was not working. It is severely scaled and has reached the end of its useful and expected life. This project would provide for a new evaporative cooler to be installed including all required connections to utilities. The estimate includes removal and disposal of the old cooler.

EXHAUST FAN INSTALLATION

Project Index #: 2173HVA1 Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2173SFT2
Construction Cost \$356,000

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2173SFT3
Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

ROOF HATCH REPLACEMENT

Project Index #: 2173SFT6
Construction Cost \$10,000

The roof hatches are original to the building and have reached the end of their useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for the removal and the disposal of the existing roof hatches and for the purchase and installation of new roof hatches.

SPRINKLER HEAD REPLACEMENT

Project Index #: 2173SFT5 Construction Cost \$40,000

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION Project Index #: 2173ADA2
Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

25-Aug-17 Page 55 of 135

Project Index #: 2173STR1 WALKWAY RAILING **Construction Cost** \$3,000

The perimeter roof walkway guardrail is failing. The railing is loose or not attached and is posing a potential safety problem. This project recommends an assessment be performed by a Structural Engineer to determine the cause and provide a design solution. Future projects will be based on the design solution recommendation.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$3,683,516

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost \$1.438.241

Construction Cost

2173SEC2

2173PLM4

2173SEC3

2173ELE1

\$5,000

\$50,000

Two to Four Years **Necessary - Not Yet Critical**

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

Removal and disposal of the existing equipment is included in this estimate.

Construction Cost \$421.875 The Housing Unit was constructed in 2002. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls.

Project Index #: 2173PLM2 CELL WATER CONTROL SYSTEMS REPLACEMENT **Construction Cost** \$504,000 This building is equipped with cell water control systems that are outdated and should be scheduled for replacement.

Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

COMPUTER WATER CONTROL SYSTEM REPLACEMENT

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/ inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

ELECTRICAL TRANSFORMER REPLACEMENT

The 50 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

> 25-Aug-17 Page 56 of 135

Project Index #: 2173EXT1
EXTERIOR FINISHES Construction Cost \$445,000

It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2173INT1
INTERIOR FINISHES
Construction Cost \$445,000

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

Construction Cost

2173INT3

2173PLM3

2173PLM1

2173HVA2

\$667,500

\$15,000

\$1,400

JANITORS CLOSET REPAIRS

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

Project Index #: 2173ENR1
LIGHTING UPGRADE Construction Cost \$356,000

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

WATER HEATER REPLACEMENT

There are two 18 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that two new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$1,635,000

Long-Term Needs Four to Ten Years

HVAC EQUIPMENT REPLACEMENT

The air handlers, fan coils and related equipment are original to the building, dating back to 2002. The equipment has consistent problems and has reached its expected life span. This project recommends the replacement of all air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 4-5 years to avoid possible failure and emergency funding for replacement.

25-Aug-17 Page 57 of 135

ROOF REPLACEMENT Project Index #: 2173EXT2
Construction Cost \$667,500

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2002. It is recommended that this building be re-roofed in the next 4-5 years to be consistent with the roofing program and the end of the warranty period.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

SHOWER UPGRADE Project Index #: 2173INT2
Construction Cost \$300,000

There are twelve shower stalls in the building that are showing signs of failure and should be scheduled for repair or replacement. This project would provide for twelve stainless steel shower cabinets to be installed to provide shower facilities for the housing units. Removal and disposal of the existing materials is included in the estimate.

BUILDING INFORMATION:

Gross Area (square feet): 44,500

Year Constructed: 2002

Exterior Finish 1: 100 # Tilt-Up Concrete

Exterior Finish 2: #

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: #

Construction Type: Tilt-Up Concrete & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$139.09 **Priority Class 1:** \$871,092 **Project Construction Cost per Square Foot** \$15,575,000 **Priority Class 2: Total Facility Replacement Construction Cost** \$3,683,516 \$350 **Priority Class 3:** \$1,635,000 Facility Replacement Cost per Square Foot 40% FCNI: **Grand Total:** \$6,189,608

25-Aug-17 Page 58 of 135

HOUSING UNIT #8

SPWD Facility Condition Analysis - 2172

Survey Date: 11/1/2016

HOUSING UNIT #8 BUILDING REPORT

The Housing Unit #8 is along the southeast secured side of High Desert State Prison. The building is constructed of tilt-up concrete walls, concrete floors at lower and upper levels, a concrete slab-on-grade foundation, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used to house inmates at the prison.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$871,092

Currently Critical Immediate to Two Years

ADA SHOWER UPGRADE Project Index #: 2172ADA4
Construction Cost \$75,000

This project would provide for three ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of three stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA TABLE UPGRADE Project Index #: 2172ADA1
Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

Project Index #: 2172SEC1
COMMUNICATIONS SYSTEM UPGRADE Construction Cost \$222,500

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

Project Index #: 2172ADA3

Construction Cost \$4,000

This building contains a water fountain that is not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

Project Index #: 2172SFT5
ELECTRICAL OUTLET & CABLE UPGRADES Construction Cost \$74,592

At the time of the survey the building had residential and commercial cover plates over the electrical outlets and coaxial wires. This poses a safety hazard allowing inmates to remove them and use them as weapons. This could be a safety hazard to inmates and guards. This project would provide for the installation of new security grade cover plates throughout the entire housing unit.

25-Aug-17 Page 59 of 135

EVAPORATIVE COOLER REPLACEMENT

Project Index #: 2172HVA3 Construction Cost \$4,000

There is a guard stationed on the roof to look out onto the yard. They have one overhead swamp cooler to keep them cool in the warmer months. At the time of the survey the swamp cooler was not working. It is severely scaled and has reached the end of its useful and expected life. This project would provide for a new evaporative cooler to be installed including all required connections to utilities. The estimate includes removal and disposal of the old cooler.

EXHAUST FAN INSTALLATION

Project Index #: 2172HVA1 Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2172SFT4
Construction Cost \$356,000

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2172SFT3
Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

ROOF HATCH REPLACEMENT

Project Index #: 2172SFT6
Construction Cost \$10,000

The roof hatches are original to the building and have reached the end of their useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for the removal and the disposal of the existing roof hatches and for the purchase and installation of new roof hatches.

SPRINKLER HEAD REPLACEMENT

Project Index #: 2172SFT2
Construction Cost \$40,000

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

Project Index #: 2172ADA2 Construction Cost \$60,000

TDD INSTALLATION

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

25-Aug-17 Page 60 of 135

Project Index #: 2172STR1 WALKWAY RAILING **Construction Cost** \$3,000

The perimeter roof walkway guardrail is failing. The railing is loose or not attached and is posing a potential safety problem. This project recommends an assessment be performed by a Structural Engineer to determine the cause and provide a design solution. Future projects will be based on the design solution recommendation.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$2,329,275

Project Index #:

2172SEC2

Two to Four Years **Necessary - Not Yet Critical**

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

Removal and disposal of the existing equipment is included in this estimate.

Construction Cost \$421.875 The Housing Unit was constructed in 2002. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls.

Project Index #: 2172PLM2

CELL WATER CONTROL SYSTEMS REPLACEMENT **Construction Cost** \$588,000 This building is equipped with cell water control systems that are outdated and should be scheduled for replacement.

Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

Project Index #: 2172PLM4 COMPUTER WATER CONTROL SYSTEM REPLACEMENT **Construction Cost** \$50,000

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

Project Index #: 2172ELE1 ELECTRICAL TRANSFORMER REPLACEMENT **Construction Cost** \$5,000

The 50 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

Project Index #: 2172EXT1 EXTERIOR FINISHES **Construction Cost** \$445,000

It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2172INT1 INTERIOR FINISHES **Construction Cost** \$445,000

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

> 25-Aug-17 Page 61 of 135

JANITORS CLOSET REPAIRS

Project Index #: 2172INT3 Construction Cost \$1,400

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

Project Index #: 2172ENR1
LIGHTING UPGRADE Construction Cost \$356,000

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

Project Index #: 2172PLM3
Construction Cost \$15,000

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

WATER HEATER REPLACEMENT

Project Index #: 2172PLM1
Construction Cost \$2,000

There are two 18 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that two new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$1,635,000

Long-Term Needs Four to Ten Years

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2172HVA2
Construction Cost \$667,500

The air handlers, fan coils and related equipment are original to the building, dating back to 2002. The equipment has consistent problems and has reached its expected life span. This project recommends the replacement of all air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 4-5 years to avoid possible failure and emergency funding for replacement.

ROOF REPLACEMENT Project Index #: 2172EXT2
Construction Cost \$667,500

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2002. It is recommended that this building be re-roofed in the next 4-5 years to be consistent with the roofing program and the end of the warranty period.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

SHOWER UPGRADE Project Index #: 2172INT2
Construction Cost \$300,000

There are twelve shower stalls in the building that are showing signs of failure and should be scheduled for repair or replacement. This project would provide for twelve stainless steel shower cabinets to be installed to provide shower facilities for the housing units. Removal and disposal of the existing materials is included in the estimate.

25-Aug-17 Page 62 of 135

BUILDING INFORMATION:

Gross Area (square feet): 44,500

Year Constructed: 2002

Exterior Finish 1: 100 # Tilt-Up Concrete

Exterior Finish 2: #

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: #

Construction Type: Tilt-Up Concrete & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$108.66	Project Construction Cost per Square Foot	\$871,092	Priority Class 1:
\$15,575,000	Total Facility Replacement Construction Cost	\$2,329,275	Priority Class 2:
\$350	Facility Replacement Cost per Square Foot	\$1,635,000	Priority Class 3:
31%	FCNI:	\$4,835,367	Grand Total:

25-Aug-17 Page 63 of 135

TOWER #6

SPWD Facility Condition Analysis - 2104

Survey Date: 11/1/2016

TOWER #6 BUILDING REPORT

Tower #6 is located on the southeast side, outside of the secured area at High Desert State Prison. The building is constructed of precast concrete with a concrete slab-on-grade foundation and has a single-ply roofing system. The building is currently unmanned.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$18,640

Project Index #:

Construction Cost

2104SFT4

\$5,000

Currently Critical Immediate to Two Years

BACKFLOW PREVENTER REPLACEMENT

There is a backflow preventer for the fire suppression system in the building. It is leaking and should be scheduled for replacement. At the time of the survey the staff indicated they have rebuilt the backflow preventer several times, however it continues to leak. This project would provide for replacing the backflow preventer by a licensed fire suppression contractor.

Project Index #: 2104SFT5
EGRESS LIGHTING REPLACEMENT Construction Cost \$1,000

There are older emergency egress lighting units in this building. These units have a finite lifespan, and this project recommends their replacement with new egress lights, and to also provide additional lights on the main exit routes and in individual rooms as needed.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2104SFT2
Construction Cost \$3,640

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2104SFT3

Construction Cost \$9.000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$54,795

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2104SEC1
DOORS, LOCKS AND CONTROLS REPLACEMENT Construction Cost \$30,000

Tower #6 was constructed in 2002. The doors, locks and controls are original to the building and have been problematic due to age. This project would provide for installing new doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

25-Aug-17 Page 64 of 135

Project Index #: 2104EXT1
EXTERIOR FINISHES Construction Cost \$4,550

It is important to maintain the finish, weather resistance and appearance of the building. The caulked joints in the concrete panels, form much of the exterior surface of this building, and are uniformly deteriorated. The caulking should be removed and the joints should be re-caulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT

Project Index #: 2104INT2 Construction Cost \$4,095

The VCT flooring in the building is damaged and reaching the end of its useful life. It is recommended that the VCT flooring be replaced. This project would provide for removal and disposal of the VCT and installation of new 12x12 VCT with a 6" base.

Project Index #: 2104INT1
INTERIOR FINISHES
Construction Cost \$4,550

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and adequately prepared to receive the coating. An epoxy-based paint should be utilized in wet areas for durability. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2104ENR1
LIGHTING UPGRADE Construction Cost \$3,640

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

ROOF REPLACEMENT Project Index #: 2104EXT3
Construction Cost \$5,460

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2002. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

WATER HEATER REPLACEMENT

Project Index #: 2104PLM1

Construction Cost \$2,500

There is an on-demand electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new on-demand electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$44,975

Long-Term Needs Four to Ten Years

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2104HVA1
Construction Cost \$11,375

The HVAC unit was installed in 2002 and is not energy efficient. It has reached the end of its expected and useful life. This project would provide for the installation of a new HVAC unit and cleaning of the existing duct work and grilles. This project includes the removal and the disposal of the existing equipment and all required connections to the utilities.

25-Aug-17 Page 65 of 135

Project Index #: 2104EXT2 Construction Cost \$33,600

WINDOW REPLACEMENT

The existing windows in this building are of single pane wire mesh construction. They are not energy efficient. This project would provide for the removal and replacement of the windows with new dual pane security rated windows.

BUILDING INFORMATION:

Gross Area (square feet): 455

Year Constructed: 2002

Exterior Finish 1: 80 # Precast Concrete

Exterior Finish 2: 20 # Glass and Aluminum

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2:

Construction Type: Precast Concrete & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$260.24	Project Construction Cost per Square Foot	\$18,640	Priority Class 1:
\$455,000	Total Facility Replacement Construction Cost	\$54,795	Priority Class 2:
\$1,000	Facility Replacement Cost per Square Foot	\$44,975	Priority Class 3:
26%	FCNI:	\$118.410	Grand Total:

25-Aug-17 Page 66 of 135

TOWER #5

SPWD Facility Condition Analysis - 2103

Survey Date: 11/1/2016

TOWER #5

BUILDING REPORT

Tower #5 is located along the east fence line, outside of the secured area at High Desert State Prison. The building is constructed of precast concrete with a concrete slab-on-grade foundation and has a single-ply roofing system.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$18,640

Currently Critical Immediate to Two Years

Project Index #: 2103SFT4
BACKFLOW PREVENTER REPLACEMENT Construction Cost \$5,000

There is a backflow preventer for the fire suppression system in the building. It is leaking and should be scheduled for replacement. At the time of the survey the staff indicated they have rebuilt the backflow preventer several times, however it continues to leak. This project would provide for replacing the backflow preventer by a licensed fire suppression contractor.

Project Index #: 2103SFT5
EGRESS LIGHTING REPLACEMENT Construction Cost \$1,000

There are older emergency egress lighting units in this building. These units have a finite lifespan, and this project recommends their replacement with new egress lights, and to also provide additional lights on the main exit routes and in individual rooms as needed.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2103SFT2
Construction Cost \$3,640

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2103SFT3

Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$55,795

Necessary - Not Yet Critical Two to Four Years

DOORS, LOCKS AND CONTROLS REPLACEMENT

Project Index #: 2103SEC1
Construction Cost \$30,000

Tower #5 was constructed in 2002. The doors, locks and controls are original to the building and have been problematic due to age. This project would provide for installing new doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

25-Aug-17 Page 67 of 135

Project Index #: 2103EXT1
EXTERIOR FINISHES Construction Cost \$4,550

It is important to maintain the finish, weather resistance and appearance of the building. The caulked joints in the concrete panels, form much of the exterior surface of this building, and are uniformly deteriorated. The caulking should be removed and the joints should be re-caulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT

Construction Cost \$4,095

2103INT2

Project Index #:

The VCT flooring in the building is damaged and reaching the end of its useful life. It is recommended that the VCT flooring be replaced. This project would provide for removal and disposal of the VCT and installation of new 12x12 VCT with a 6" base.

Project Index #: 2103INT1
INTERIOR FINISHES Construction Cost \$4,550

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and adequately prepared to receive the coating. An epoxy-based paint should be utilized in wet areas for durability. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2103ENR1
LIGHTING UPGRADE Construction Cost \$3,640

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

PEST CONTROL

Project Index #: 2103ENV1
Construction Cost \$1,000

There are numerous bird and rodent droppings throughout this building. Due to the potential risk of disease, this project provides for treatment and cleanup of the pigeon and rodent droppings by a licensed pest control business.

ROOF REPLACEMENT Project Index #: 2103EXT3
Construction Cost \$5,460

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2002. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

WATER HEATER REPLACEMENT Project Index #: 2103PLM1
Construction Cost \$2,500

There is an on-demand electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new on-demand electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

25-Aug-17 Page 68 of 135

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$44,975

Long-Term Needs Four to Ten Years

Project Index #: 2103HVA1
Construction Cost \$11,375

HVAC EQUIPMENT REPLACEMENT

The HVAC unit was installed in 2002 and is not energy efficient. It has reached the end of its expected and useful life. This project would provide for the installation of a new HVAC unit and cleaning of the existing duct work and grilles. This project includes the removal and the disposal of the existing equipment and all required connections to the utilities.

WINDOW REPLACEMENT

Project Index #: 2103EXT2 Construction Cost \$33,600

The existing windows in this building are of single pane wire mesh construction. They are not energy efficient. This project would provide for the removal and replacement of the windows with new dual pane security rated windows.

BUILDING INFORMATION:

Gross Area (square feet): 455

Year Constructed: 2002

Exterior Finish 1: 80 # Precast Concrete

Exterior Finish 2: 20 # Glass and Aluminum

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2:

Construction Type: Precast Concrete & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$262.44	Project Construction Cost per Square Foot	\$18,640	Priority Class 1:
\$455,000	Total Facility Replacement Construction Cost	\$55,795	Priority Class 2:
\$1,000	Facility Replacement Cost per Square Foot	\$44,975	Priority Class 3:
26%	FCNI:	\$119,410	Grand Total:

25-Aug-17 Page 69 of 135

TOWER #3

SPWD Facility Condition Analysis - 2102

Survey Date: 11/1/2016

TOWER #3

BUILDING REPORT

Tower #3 is in the northwest corner of High Desert State Prison. The guard tower is a steel framed structure on a concrete slab-on-grade foundation with steel siding and a metal roof. The building is currently manned and is used to observe the prisoners in the yard.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$18,640

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

Construction Cost

2102SFT3

2102SFT4

2102SFT1

2102SFT2

\$9,000

\$3,640

\$1,000

\$5,000

Currently Critical Immediate to Two Years

BACKFLOW PREVENTER REPLACEMENT

There is a backflow preventer for the fire suppression system in the building. It is leaking and should be scheduled for replacement. At the time of the survey the staff indicated they have rebuilt the backflow preventer several times, however it continues to leak. This project would provide for replacing the backflow preventer by a licensed fire suppression contractor.

EGRESS LIGHTING REPLACEMENT

There are older emergency egress lighting units in this building. These units have a finite lifespan, and this project recommends their replacement with new egress lights, and to also provide additional lights on the main exit routes and in individual rooms as needed.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

25-Aug-17 Page 70 of 135

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$61,710

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2102ENR2
Construction Cost \$1.000

2102SEC1

2102INT2

2102HVA1

\$11,375

\$4,095

\$30,000

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

CONDENSER DUCTING

The condensing unit located in the middle level of the tower is missing the duct from the outside air intake louver to the condensing unit. This may be a cause for the overheating of the unit. This project would provide for replacing this missing duct and associated connections.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

DOORS, LOCKS AND CONTROLS REPLACEMENT

Tower #3 was constructed in 2000. The doors, locks and controls are original to the building and have been problematic due to age. This project would provide for installing new doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

Project Index #: 2102EXT1
EXTERIOR FINISHES Construction Cost \$4,550

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is power washing, priming, painting the metal panels and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended to paint the building in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT

The VCT flooring in the tower is damaged and reaching the end of its useful life. It is recommended that the VCT flooring be replaced. This project would provide for removal and disposal of the VCT and installation of new 12x12 VCT with a 6" base.

HVAC EQUIPMENT REPLACEMENT

The HVAC unit was installed in 2000 and is not energy efficient. It has reached the end of its expected and useful life. This project would provide for the installation of a new HVAC unit and cleaning of the existing duct work and grilles. This project includes the removal and the disposal of the existing equipment and all required connections to the utilities.

Project Index #: 2102INT1
INTERIOR FINISHES
Construction Cost \$4,550

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2102ENR3
LIGHTING UPGRADE Construction Cost \$3,640

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

25-Aug-17 Page 71 of 135

Project Index #: 2102PLM1 Construction Cost \$2,500

WATER HEATER REPLACEMENT

There is an on-demand electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new on-demand electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$21,700

Long-Term Needs Four to Ten Years

Project Index #: 2102EXT3
Construction Cost \$2,500

SLIDING GLASS DOOR REPLACEMENT

The sliding glass door is damaged from age and general wear and tear and has reached the end of its expected life. This project would provide for the replacement of the sliding glass door assembly with a new door, frame and hardware.

Removal and disposal of the existing door is included in this estimate.

WINDOW REPLACEMENT Project Index #: 2102EXT2
Construction Cost \$19,200

The existing windows in this building are of single pane wire mesh construction. They are not energy efficient. This project would provide for the removal and replacement of the windows with new dual pane security rated windows.

BUILDING INFORMATION:

Gross Area (square feet): 455

Year Constructed: 2000

Exterior Finish 1: 80 # Metal Siding

Exterior Finish 2: 20 # Glass and Aluminum

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: #

Construction Type: Steel IBC Construction Type: II-A

Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1: \$18,640 Project Construction Cost per Square Foot \$224.29
Priority Class 2: \$61,710 Total Facility Replacement Construction Cost \$455,000
Priority Class 3: \$21,700 Facility Replacement Cost per Square Foot \$1,000

Grand Total: \$102,050 FCNI: 22%

25-Aug-17 Page 72 of 135

TOWER #2

SPWD Facility Condition Analysis - 2101

Survey Date: 11/1/2016

TOWER #2

BUILDING REPORT

Tower #2 is located on the west (center) perimeter of High Desert State Prison. The guard tower is a steel framed structure on a concrete slab-on-grade foundation with uninsulated steel siding and a metal roof. The building is currently manned and is used to observe the prisoners in the yard.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$18,640

Currently Critical Immediate to Two Years

BACKFLOW PREVENTER REPLACEMENT

Project Index #: 2101SFT3
Construction Cost \$5,000

There is a backflow preventer for the fire suppression system in the building. It is leaking and should be scheduled for replacement. At the time of the survey the staff indicated they have rebuilt the backflow preventer several times, however it continues to leak. This project would provide for replacing the backflow preventer by a licensed fire suppression contractor.

EGRESS LIGHTING REPLACEMENT

Project Index #: 2101SFT4
Construction Cost \$1,000

There are older emergency egress lighting units in this building. These units have a finite lifespan, and this project recommends their replacement with new egress lights, and to also provide additional lights on the main exit routes and in individual rooms as needed.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2101SFT1 Construction Cost \$3,640

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2101SFT2 Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

25-Aug-17 Page 73 of 135

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$61,710

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

2101SEC1

2101INT2

2101HVA1

\$11,375

\$4,095

\$30,000

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2101ENR2
CONDENSER DUCTING

Construction Cost \$1,000

The condensing unit located in the middle level of the tower is missing the duct from the outside air intake louver to the condensing unit. This may be a cause for the overheating of the unit. This project would provide for replacing this missing duct and associated connections.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

DOORS, LOCKS AND CONTROLS REPLACEMENT

Tower #2 was constructed in 2000. The doors, locks and controls are original to the building and have been problematic due to age. This project would provide for installing new doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

Project Index #: 2101EXT1
EXTERIOR FINISHES Construction Cost \$4,550

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is power washing, priming, painting the metal panels and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended to paint the building in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT

The VCT flooring in the tower is damaged and reaching the end of its useful life. It is recommended that the VCT flooring be replaced. This project would provide for removal and disposal of the VCT and installation of new 12x12 VCT with a 6" base.

HVAC EQUIPMENT REPLACEMENT

The HVAC unit was installed in 2000 and is not energy efficient. It has reached the end of its expected and useful life. This project would provide for the installation of a new HVAC unit and cleaning of the existing duct work and grilles. This project includes the removal and the disposal of the existing equipment and all required connections to the utilities.

Project Index #: 2101INT1
INTERIOR FINISHES
Construction Cost \$4,550

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2101ENR3
LIGHTING UPGRADE Construction Cost \$3,640

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

25-Aug-17 Page 74 of 135

Project Index #: 2101PLM1 **Construction Cost** \$2,500

WATER HEATER REPLACEMENT

There is an on-demand electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new on-demand electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$21,700

Four to Ten Years **Long-Term Needs**

> **Project Index #:** 2101EXT3 **Construction Cost** \$2,500

SLIDING GLASS DOOR REPLACEMENT

The sliding glass door is damaged from age and general wear and tear and has reached the end of its expected life. This project would provide for the replacement of the sliding glass door assembly with a new door, frame and hardware. Removal and disposal of the existing door is included in this estimate.

Project Index #: 2101EXT2 WINDOW REPLACEMENT **Construction Cost** \$19,200

The existing windows in this building are of single pane wire mesh construction. They are not energy efficient. This project would provide for the removal and replacement of the windows with new dual pane security rated windows.

BUILDING INFORMATION:

Gross Area (square feet): 455

Year Constructed: 2000

Exterior Finish 1: 80 **Metal Siding**

Exterior Finish 2: 20 **Glass and Aluminum**

#

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 #

IBC Occupancy Type 2:

Construction Type: Steel IBC Construction Type: II-A

Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$102,050

\$224.29 **Priority Class 1:** \$18,640 Project Construction Cost per Square Foot \$455,000 **Priority Class 2:** \$61,710 **Total Facility Replacement Construction Cost** \$1,000 **Priority Class 3:** \$21,700 Facility Replacement Cost per Square Foot 22% **FCNI: Grand Total:**

> 25-Aug-17 Page 75 of 135

TOWER #1

SPWD Facility Condition Analysis - 2100

Survey Date: 11/1/2016

TOWER #1 BUILDING REPORT

Tower #1 is located in the southwest corner of High Desert State Prison. The guard tower is a steel framed structure on a concrete slab-on-grade foundation with steel siding and a metal roof. The building is currently manned and observes the prisoners in the yard.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$18,640

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

Construction Cost

2100SFT3

2100SFT4

2100SFT1

2100SFT2

\$9,000

\$3,640

\$1,000

\$5,000

Currently Critical Immediate to Two Years

BACKFLOW PREVENTER REPLACEMENT

There is a backflow preventer for the fire suppression system in the building. It is leaking and should be scheduled for replacement. At the time of the survey the staff indicated they have rebuilt the backflow preventer several times, however it continues to leak. This project would provide for replacing the backflow preventer by a licensed fire suppression contractor.

EGRESS LIGHTING REPLACEMENT

The building does not currently have exit signs and emergency egress lighting is insufficient. This project would provide for the purchase and installation of self-illuminated or LED style exit signs with battery-backed internal systems as well as emergency egress lighting to provide illumination along the egress route. IBC 2012 Chapter 10 was referenced for this project.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

25-Aug-17 Page 76 of 135

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$61,710

Necessary - Not Yet Critical Two to Four Years

> 2100ENR2 **Project Index #: Construction Cost** \$1,000

> > 2100SFT5

2100INT2

\$30,000

Project Index #:

Construction Cost

CONDENSER DUCTING

The condensing unit located in the middle level of the tower is missing the duct from the outside air intake louver to the condensing unit. This may be a cause for the overheating of the unit. This project would provide for replacing this missing duct and associated connections.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

DOORS, LOCKS AND CONTROLS REPLACEMENT

Tower #1 was constructed in 2000. The doors, locks and controls are original to the building and have been problematic due to age. This project would provide for installing new doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

2100EXT0 **Project Index #: EXTERIOR FINISHES Construction Cost** \$4,550

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost is power washing, priming, painting the metal panels and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended to paint the building in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT

Project Index #: Construction Cost \$4,095

The VCT flooring in the tower is damaged and reaching the end of its useful life. It is recommended that the VCT flooring be replaced. This project would provide for removal and disposal of the VCT and installation of new 12x12 VCT with a 6" base.

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2100HVA1 **Construction Cost** \$11,375

The HVAC unit was installed in 2000 and is not energy efficient. It has reached the end of its expected and useful life. This project would provide for the installation of a new HVAC unit and cleaning of the existing duct work and grilles. This project includes the removal and the disposal of the existing equipment and all required connections to the utilities.

Project Index #: 2100INT1 INTERIOR FINISHES **Construction Cost** \$4,550

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2100ENR3 LIGHTING UPGRADE **Construction Cost** \$3,640

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate

> 25-Aug-17 Page 77 of 135

Project Index #: 2100PLM1 Construction Cost \$2,500

WATER HEATER REPLACEMENT

There is an on-demand electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new on-demand electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$21,700

Long-Term Needs

Four to Ten Years

SLIDING GLASS DOOR REPLACEMENT

Project Index #: 2100EXT1 Construction Cost \$2,500

The sliding glass door is damaged from age and general wear and tear and has reached the end of its expected life. This project would provide for the replacement of the sliding glass door assembly with a new door, frame and hardware. Removal and disposal of the existing door is included in this estimate.

WINDOW REPLACEMENT

Project Index #: 2100EXT2 Construction Cost \$19,200

The existing windows in this building are of single pane wire mesh construction. They are not energy efficient. This project would provide for the removal and replacement of the windows with new dual pane security rated windows.

BUILDING INFORMATION:

Gross Area (square feet): 455

Year Constructed: 2000

Exterior Finish 1: 80 # Metal Siding

Exterior Finish 2: 20 # Glass and Aluminum

#

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2:

Construction Type: Steel IBC Construction Type: II-A

Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$224.29 **Priority Class 1:** \$18,640 Project Construction Cost per Square Foot \$455,000 **Priority Class 2:** \$61,710 **Total Facility Replacement Construction Cost** \$1,000 **Priority Class 3:** \$21,700 Facility Replacement Cost per Square Foot 22% **FCNI: Grand Total:** \$102,050

25-Aug-17 Page 78 of 135

SECURITY/ ADMINISTRATION

SPWD Facility Condition Analysis - 2099

Survey Date: 11/1/2016

SECURITY/ ADMINISTRATION BUILDING REPORT

The Security/ Administration building is located on the south side, outside of the secured area at High Desert State Prison. The building is constructed of concrete masonry units on a concrete slab-on-grade foundation with prefabricated steel trusses, metal decking and has a single-ply membrane roof. The building contains all of the security administration services as well as isolation cells for inmates. The main control room is located in the upper level of the building.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$114,928

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Project Index #:

Construction Cost

Construction Cost

Construction Cost

2099SFT2

2099SFT3

2099SEC2

2099SEC1

\$423,712

\$125,790

\$9,000

\$105,928

Currently Critical Immediate to Two Years

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$1,654,905

Necessary - Not Yet Critical Two to Four Years

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

Security/ Administration was constructed in 2000. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. A total square footage of 13,241 was used for this estimate. Removal and disposal of the existing equipment is included in this estimate.

DOORS CONTROL SYSTEM REPLACEMENT

The control panel/ inmate movement and control system in the Security/ Administration is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

25-Aug-17 Page 79 of 135

ELECTRICAL AND COMMUNICATIONS UPGRADE

Project Index #: 2099ELE2 Construction Cost \$331,025

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

ELECTRICAL TRANSFORMER REPLACEMENT

Project Index #: 2099ELE1
Construction Cost \$5,000

The 45 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

EXTERIOR FINISHES

Project Index #: 2099EXT1 Construction Cost \$132,410

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete masonry units and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2099HVA1 Construction Cost \$198,615

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

Project Index #: 2099INT1
INTERIOR FINISHES
Construction Cost \$132,410

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

JANITORS CLOSET REPAIRS

Project Index #: 2099INT2 Construction Cost \$1,400

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

LIGHTING UPGRADE Project Index #: 2099ENR1
Construction Cost \$105,928

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

25-Aug-17 Page 80 of 135

ROOF REPLACEMENT Project Index #: 2099LGT1
Construction Cost \$198,615

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$1,500

Long-Term Needs Four to Ten Years

WATER HEATER REPLACEMENT

Project Index #: 2099PLM1 Construction Cost \$1,500

There is a 50 gallon electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 4-5 years. It is recommended that a new electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

BUILDING INFORMATION:

Gross Area (square feet): 13,241

Year Constructed: 2000

Exterior Finish 1: 80 # Natural Grey CMU

Exterior Finish 2: 20 # Glass and Steel

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # B

IBC Occupancy Type 2:

Construction Type: Concrete Masonry & Steel

#

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$133.78 **Priority Class 1:** \$114,928 Project Construction Cost per Square Foot \$4,634,000 **Priority Class 2:** \$1,654,905 **Total Facility Replacement Construction Cost** \$350 **Priority Class 3:** \$1,500 Facility Replacement Cost per Square Foot 38% FCNI: **Grand Total:** \$1,771,333

25-Aug-17 Page 81 of 135

ARMORY/ EMERGENCY RESPONSE SPWD Facility Condition Analysis - 2098

Survey Date: 11/1/2016

ARMORY/ EMERGENCY RESPONSE BUILDING REPORT

The Armory/ Emergency Response building is located on the southeast side, outside of the secured area at High Desert State Prison. The building is constructed of concrete masonry units, a concrete slab-on-grade foundation, prefabricated steel frame trusses, and a single-ply membrane roof. The building is no longer used for canine activities and housing. The building is now being used for mail services in this area. The Armory is still housed in the east end of this building.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$127,840

Currently Critical Immediate to Two Years

BACKFLOW PREVENTER REPLACEMENT

Project Index #: 2098SFT3
Construction Cost \$5,000

There is a backflow preventer for the fire suppression system in the building. It is leaking and should be scheduled for replacement. At the time of the survey the staff indicated they have rebuilt the backflow preventer several times, however it continues to leak. This project would provide for replacing the backflow preventer by a licensed fire suppression contractor.

BREAK ROOM REMODEL Project Index #: 2098ADA1
Construction Cost \$15,000

The kitchenette and associated cabinets in the employee break room are original to the building. The quality of construction and installation were inadequate for the high usage at this facility, and the cabinets and countertops are delaminating and failing. This project recommends the replacement of the existing kitchen countertops, cabinets, and associated equipment with heavy duty, quality components. The cabinets should be finished inside and outside with a melamine or similar finish which encapsulates the door, frame, and shelving. The countertops should be constructed of a highly durable product, such as stainless steel, over a moisture resistant underlayment to minimize swelling and damage from water exposure. ADA compliance according to NRS 338.180, IBC - 2012, ICC/ANSI A117.1 - 2009 and the most current version of the ADA Standards for Accessible Design should be incorporated into the design such as providing an accessible sink. This estimate includes removal and disposal of the existing materials.

FIRE ALARM SYSTEM REPLACEMENT Project Index #: 2098SFT2 Construction Cost \$27,240

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION Project Index #: 2098SFT4 Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

25-Aug-17 Page 82 of 135

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2098HVA1 Construction Cost \$46,600

2098PLM2

2098ELE2

2098ELE1

\$5,000

\$85,125

\$25,000

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

The air handlers, fan coils and related HVAC equipment are original to the building, dating back to 2000. At the time of the survey the HVAC equipment was not working and the staff had indicated that it was very problematic and they had abandon the system and installed a mini split for the office location within the building. The equipment has reached its expected life span. This project recommends replacement of all the air handlers, fan coils, ventilation and related HVAC equipment and exhaust fans. It is recommended that this project be implemented in the next year.

WATER TREATMENT SYSTEM REPLACEMENT

The existing water softening/ treatment systems in the building are currently not operational. They are original to the building and approaching the end of their lifecycles. Failure of the equipment causes wear and tear on the domestic water supply lines, plumbing fixtures and HVAC equipment. This project would provide for the replacement of the existing water softeners/ treatment systems with new equipment. This project would also provide for a chemical treatment program including an updated chemicals control system, service and employee training provided by a qualified water treatment vendor. The annual maintenance fee charged by the water treatment vendor would be determined after an investigation of the water system is complete. These annual costs are not included in this project cost. For budgeting purposes, a \$12,000 maintenance fee is suggested.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$209,300

Necessary - Not Yet Critical Two to Four Years

ELECTRICAL AND COMMUNICATIONS UPGRADE

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

ELECTRICAL TRANSFORMER REPLACEMENT

The 30 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

EXTERIOR FINISHES Project Index #: 2098EXT2 Construction Cost \$34,050

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete masonry units and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2098INT1 INTERIOR FINISHES Construction Cost \$34,050

It is recommended that the interior walls and floors be painted or sealed at least once in the next 2-3 years. Prior to painting or sealing, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

25-Aug-17 Page 83 of 135

ROOF REPLACEMENT Project Index #: 2098EXT3
Construction Cost \$51,075

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$1,500

Long-Term Needs Four to Ten Years

WATER HEATER REPLACEMENT

Project Index #: 2098PLM1 Construction Cost \$1,500

There is a 50 gallon electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 4-5 years. It is recommended that a new electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

BUILDING INFORMATION:

Gross Area (square feet): 3,405

Year Constructed: 2000

Exterior Finish 1: 100 # Natural Grey CMU

Exterior Finish 2:

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 # I

IBC Occupancy Type 2: #

Construction Type: Concrete Masonry & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$99.45 **Priority Class 1:** \$127,840 Project Construction Cost per Square Foot \$1,022,000 \$209,300 **Priority Class 2: Total Facility Replacement Construction Cost** \$300 **Priority Class 3:** \$1,500 Facility Replacement Cost per Square Foot 33% FCNI: **Grand Total:** \$338,640

25-Aug-17 Page 84 of 135

MAINTENANCE/ CENTRAL PLANT SPWD Facility Condition Analysis - 2097

Survey Date: 11/1/2016

MAINTENANCE/ CENTRAL PLANT BUILDING REPORT

The Maintenance/ Central Plant building is located on the north side of the site, outside of the secured area at High Desert State Prison. The building is constructed of concrete masonry units, a slab-on-grade concrete foundation, prefabricated steel frame trusses and a single-ply membrane roof. The building contains most of the mechanical equipment required to run the entire prison including the boilers, cooling towers, emergency generators, equipment storage, and offices for maintenance personnel.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$1,006,983

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

Construction Cost

2097ELE2

2097SFT4

2097SFT1

2097SFT2

\$3,000

\$9,000

\$241,208

\$753,775

Currently Critical

Immediate to Two Years

ELECTRICAL AND COMMUNICATIONS UPGRADE

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

PANIC HARDWARE IN ELECTRICAL ROOMS

The electrical room with the uninterruptable power supply contains equipment that meets or exceeds 1,200 amps. It is recommended per the 2012 IBC 1008.1.10 that panic and fire exit hardware be installed. This equipment was not required when the building was constructed in 2000. When a remodel occurs, it is suggested to comply with current code. It is recommended that this project be completed within the next year. The estimate is based on one door that requires panic hardware.

25-Aug-17 Page 85 of 135

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$2,404,393

Necessary - Not Yet Critical Two to Four Years

2097HVA2 **Project Index #:** BOILER BURNER REPLACEMENT **Construction Cost**

The burners on the boilers were not working correctly at the time of the survey. This project recommends replacing all 6 boiler burners with energy-efficient boiler burners. This project would provide for the labor and materials to install 6 new boiler burners.

ENERGY MANAGEMENT SYSTEM INSTALLATION

Project Index #: 2097ENR2 **Construction Cost** \$30,000

\$670,000

The Snider energy management system is original to the building and should be scheduled for replacement. Replacement parts for performing routine and emergency maintenance are not made any more. The system has had numerous failures and the staff no longer has some monitoring capabilities. In a facility of this type, it is imperative that the conditioned spaces are properly controlled at all times. This project would provide for the removal and disposal of the existing energy management system and replacement with new equipment including all required connections to utilities and equipment.

Project Index #: 2097PLM1 EXPANSION TANKS **Construction Cost** \$350,000

The expansion tanks in the Central Plant Boiler Room are undersized for the system which has ruptured the bladders and blown out pump seals. They were not operational at the time of survey. The system was designed to have an acceptance volume/gallon of 3,964. The existing tanks are Wassels model number NLA7500 which has an acceptance volume/gallon number 1980. This project would provide for two expansion tanks, Wassels model number NLA-15000. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2097EXT0 **EXTERIOR FINISHES Construction Cost** \$301,510

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete masonry units and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2097INT3 INTERIOR FINISHES **Construction Cost** \$301,510

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2097INT2 JANITORS CLOSET REPAIRS **Construction Cost** \$1,400

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

> 25-Aug-17 Page 86 of 135

Project Index #: 2097ENR1
LIGHTING UPGRADE Construction Cost \$241,208

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

ROOF REPLACEMENT Project Index #: 2097EXT2
Construction Cost \$452,265

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

VARIABLE FREQUENCY DRIVE REPLACEMENT

The Variable Frequency Drives (VLT 6000) for the hot water drives have been disabled. Staff reports that the hot water VFD's have been problematic and have purposely been by-passed from the HVAC system. This project would provide for purchase and installation of the VFD's for the hot water drives.

2097HVA1

2097PLM2

\$20,000

\$35,000

Project Index #:

Construction Cost

WATER HEATER REPLACEMENT

Project Index #: 2097PLM3

Construction Cost \$1,500

There is a 30 gallon electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

WATER TREATMENT SYSTEM REPLACEMENT Project Index #: Construction Cost

The existing water softening/ treatment systems in the building are currently not operational. They are original to the building and approaching the end of their lifecycles. Failure of the equipment causes wear and tear on the domestic water supply lines, plumbing fixtures and HVAC equipment. This project would provide for the replacement of the existing water softeners/ treatment systems with new equipment. This project would also provide for a chemical treatment program including an updated chemicals control system, service and employee training provided by a qualified water treatment vendor. The annual maintenance fee charged by the water treatment vendor would be determined after an investigation of the water system is complete. These annual costs are not included in this project cost. For budgeting purposes, a \$12,000 maintenance fee is suggested.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$452,265

Long-Term Needs Four to Ten Years

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2097HVA3
Construction Cost \$452,265

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

25-Aug-17 Page 87 of 135

BUILDING INFORMATION:

Gross Area (square feet): 30,151

Year Constructed: 2000

Exterior Finish 1: 90 # Natural Grey CMU

Exterior Finish 2: 10 # Doors and Louvers

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 40 # B
IBC Occupancy Type 2: 60 # S-2

Construction Type: Concrete Masonry & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1:	\$1,006,983	Project Construction Cost per Square Foot	\$128.14
Priority Class 2:	\$2,404,393	Total Facility Replacement Construction Cost	\$11,307,000
Priority Class 3:	\$452,265	Facility Replacement Cost per Square Foot	\$375
Grand Total:	\$3,863,641	FCNI:	34%

25-Aug-17 Page 88 of 135

SALLYPORT

SPWD Facility Condition Analysis - 2096

Survey Date: 11/1/2016

SALLYPORT BUILDING REPORT

The Sallyport is located on the north side, outside of the secured area at High Desert State Prison. The building is a prefabricated steel framed structure with a concrete slab-on-grade foundation, metal siding and a metal roof. This is the only secured entrance into the prison yard for delivery trucks and maintenance personnel. It has a small restroom and a wall mounted heat pump.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$19,296

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

2096SFT2

2096ELE2

2096SFT1

2096SFT3

\$1,536

\$960

\$4,800

Currently Critical Immediate to Two Years

Project Index #: 2096ADA2 ADA UPGRADES **Construction Cost** \$10,000

Section 4.13.9 of the ADAAG states that handles, pulls, latches, locks and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. It is recommended that proper lever hardware be installed in this building to meet these requirements.

EGRESS DOOR UPGRADE

Construction Cost \$2,000 The egress door located on south east side of the building was welded shut from the inside. IBC 2012 Section 1003.6

Obstructions shall not be placed in the required width of a means of egress. This project would provide for the removal of the welded angle iron and would cut any welds holding the door shut. This project should coincide with an Exterior Door Replacement project.

ELECTRICAL AND COMMUNICATIONS UPGRADE

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

EXIT SIGN AND EGRESS LIGHTING INSTALLATION

The building does not have emergency lighting or exit signs. This project would provide for the purchase and installation of self-illuminated or LED style exit signs with battery-backed internal systems as well as emergency egress lighting to provide illumination along the egress route. IBC 2012 Chapter 10 was referenced for this project.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

> 25-Aug-17 Page 89 of 135

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$13,376

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2096EXT2 Construction Cost \$8,000

EXTERIOR DOOR REPLACEMENT

The existing exterior metal doors and frames appear to be original to the building. They are damaged and showing signs of wear and deterioration from constant use. This project would provide for the removal and replacement of two new metal door assemblies including frames, locks, hardware and painting. Removal and disposal of the existing doors and painting of the new doors is included in this estimate.

Project Index #: 2096EXT1
EXTERIOR FINISHES Construction Cost \$1,920

It is important to maintain the finish, weather resistance and appearance of the building. The metal exterior, doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2096INT1
INTERIOR FINISHES Construction Cost \$1,920

It is recommended that the interior walls and floors be painted or sealed at least once in the next 2-3 years. Prior to painting or sealing, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2096ENR1
LIGHTING UPGRADE Construction Cost \$1,536

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$2,880

Long-Term Needs Four to Ten Years

Project Index #: 2096HVA1
HEAT PUMP REPLACEMENT Construction Cost \$2,880

The heat pumps in the building should be scheduled for replacement. They are not energy efficient and have reached the end of their expected and useful life. This project would provide for installation of new heat pump units and the cleaning of the existing ducting and grilles. This project includes removal and disposal of the existing heat pump units and all required connections to utilities.

25-Aug-17 Page 90 of 135

BUILDING INFORMATION:

Gross Area (square feet): 192

Year Constructed: 2000

Exterior Finish 1: 80 # Metal Siding

Exterior Finish 2: 20 # Glass and Aluminum

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 # B IBC Occupancy Type 2: #

Construction Type: Prefabricated Steel Building

IBC Construction Type: II-B
Percent Fire Suppressed: 0 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$185.17	Project Construction Cost per Square Foot	\$19,296	Priority Class 1:
\$67,000	Total Facility Replacement Construction Cost	\$13,376	Priority Class 2:
\$350	Facility Replacement Cost per Square Foot	\$2,880	Priority Class 3:
53%	FCNI:	\$35,552	Grand Total:

25-Aug-17 Page 91 of 135

GATEHOUSE

SPWD Facility Condition Analysis - 2095

Survey Date: 11/1/2016

GATEHOUSE BUILDING REPORT

The Gatehouse is located on the southwest side of High Desert State Prison. The building is constructed of concrete masonry units, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used as the primary entrance into the prison by employees.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for I

Total Construction Cost for Priority 1 Projects: \$213,661

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

Construction Cost

2095ADA2

2095ADA1

2095ADA3

2095ELE1

\$154,125

\$4,000

\$50,000

\$4,000

Currently Critical Immediate to Two Years

ADA ACCESSIBLE COUNTER

The ADA provides for accessibility to sites and services for people with physical limitations. The lobby at the entrance of the building has a service counter for the public to approach which does not meet current requirements. Section 904.4 of the ADA Standards for Accessible Design states that a portion of the counter surface that is 36" long minimum and 36" high maximum above the finish floor shall be provided. This project will provide an accessible counter space in accordance with this requirement. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA SHOWER UPGRADE

This project would provide for three ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of two stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

This building contains a water fountain that is not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

ELECTRICAL AND COMMUNICATIONS UPGRADE

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

25-Aug-17 Page 92 of 135

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2095SFT3 **Construction Cost** \$1,536

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$320,701

Two to Four Years **Necessary - Not Yet Critical**

DOOR CONTROLS SYSTEM REPLACEMENT

2095SEC1 **Project Index #: Construction Cost** \$30,000

Project Index #:

2095INT3

The control panel/inmate movement and control system in the Gatehouse is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

Project Index #: 2095EXT0 EXTERIOR FINISHES **Construction Cost** \$61,650

It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT

VCT with a 6" base.

Construction Cost \$55,485 The VCT flooring in the gymnasium is damaged and reaching the end of its useful life. It is recommended that the VCT flooring be replaced. This project would provide for removal and disposal of the VCT and installation of new 12x12

Project Index #: 2095INT1 INTERIOR FINISHES **Construction Cost** \$61,650

It is recommended to repair, paint or seal the interior concrete block walls at least once in the 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2095INT2 JANITORS CLOSET REPAIRS **Construction Cost** \$1,400

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide fiberglass reinforced panels (FRP) to be installed on the CMU walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

> 25-Aug-17 Page 93 of 135

Project Index #: 2095ENR1
LIGHTING UPGRADE Construction Cost \$1,536

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

ROOF REPLACEMENT Project Index #: 2095EXT3
Construction Cost \$73,980

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

2095PLM1

2095HVA1

\$92,475

\$10,000

Project Index #:

Construction Cost

WATER HEATER REPLACEMENT

There are two 119 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, the units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

WATER TREATMENT SYSTEM REPLACEMENT Project Index #: 2095PLM2 Construction Cost \$25,000

The existing water softening/ treatment systems in the building are currently not operational. They are original to the building and approaching the end of their lifecycles. Failure of the equipment causes wear and tear on the domestic water supply lines, plumbing fixtures and HVAC equipment. This project would provide for the replacement of the existing water softeners/ treatment systems with new equipment. This project would also provide for a chemical treatment program including an updated chemicals control system, service and employee training provided by a qualified water treatment vendor. The annual maintenance fee charged by the water treatment vendor would be determined after an investigation of the water system is complete. These annual costs are not included in this project cost. For budgeting purposes, a \$12,000 maintenance fee is suggested.

PRIORITY CLASS 3 PROJECTS Total Construction Cost for Priority 3 Projects: \$92,475

Long-Term Needs Four to Ten Years

HVAC EQUIPMENT REPLACEMENT Project Index #: Construction Cost

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

25-Aug-17 Page 94 of 135

BUILDING INFORMATION:

Gross Area (square feet): 6,165

Year Constructed: 2000

Exterior Finish 1: 95 # Natural Grey CMU

Exterior Finish 2: 5 # Glass and Steel

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2:

Construction Type: Concrete Masonry & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$101.68	Project Construction Cost per Square Foot	\$213,661	Priority Class 1:
\$2,158,000	Total Facility Replacement Construction Cost	\$320,701	Priority Class 2:
\$350	Facility Replacement Cost per Square Foot	\$92,475	Priority Class 3:
29%	FCNI:	\$626,837	Grand Total:

25-Aug-17 Page 95 of 135

ADMINISTRATION

SPWD Facility Condition Analysis - 2094

Survey Date: 11/1/2016

ADMINISTRATION BUILDING REPORT

The Administration building is located on the southwest corner of High Desert State Prison. The building is constructed of concrete masonry units, a concrete slab-on-grade foundation, prefabricated steel trusses, metal decking and has a single-ply membrane roof. The building contains the administrative support offices and training classrooms for staff.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$383,363

Currently Critical Immediate to Two Years

Project Index #: 2094SFT1
EGRESS LIGHTING UPGRADE Construction Cost \$5,588

There are older emergency egress lighting units in this building. These units have a finite lifespan, and this project recommends their replacement with new egress lights, and to also provide additional lights on the main exit routes and in individual rooms as needed.

Project Index #: 2094ELE1
ELECTRICAL AND COMMUNICATIONS UPGRADE Construction Cost \$279,375

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2094SFT3

Construction Cost \$89,400

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 "If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure". When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2094SFT2

Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

25-Aug-17 Page 96 of 135

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$810,225

Project Index #:

Project Index #:

Project Index #:

Construction Cost

2094HVA1

\$35,000

Construction Cost

Construction Cost

2094INT3

\$100,575

2094HVA2

\$167,625

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2094EXT1
EXTERIOR FINISHES Construction Cost \$111,750

It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT

The VCT (vinyl composite tile) and carpet in the building are damaged and reaching the end of their useful life. It is recommended that the flooring be replaced. This project would provide for removal and disposal of the existing flooring and installation of new 12x12 VCT with a 6" base and heavy duty commercial grade carpet in the next 2-3 years.

HVAC EQUIPMENT REPLACEMENT

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

Project Index #: 2094INT1
INTERIOR FINISHES Construction Cost \$111,750

It is recommended that the interior walls be painted at least once in the next 2-3 years. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2094ENR1
LIGHTING UPGRADE Construction Cost \$89,400

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

ROOF REPLACEMENT Project Index #: 2094EXT2
Construction Cost \$167,625

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

VARIABLE FREQUENCY DRIVE REPLACEMENT

The Variable Frequency Drives throughout the building have been disabled. Staff reports that the VFD's are problematic and have been by-passed from the HVAC system. This project would provide for purchase and installation of new VFD's.

25-Aug-17 Page 97 of 135

WATER HEATER REPLACEMENT

Project Index #: 2094PLM2
Construction Cost \$1,500

There is a 40 gallon electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

Project Index #:

Construction Cost

2094PLM1

\$25,000

WATER TREATMENT SYSTEM REPLACEMENT

The existing water softening/ treatment systems in the building are currently not operational. They are original to the building and approaching the end of their lifecycles. Failure of the equipment causes wear and tear on the domestic water supply lines, plumbing fixtures and HVAC equipment. This project would provide for the replacement of the existing water softeners/ treatment systems with new equipment. This project would also provide for a chemical treatment program including an updated chemicals control system, service and employee training provided by a qualified water treatment vendor. The annual maintenance fee charged by the water treatment vendor would be determined after an investigation of the water system is complete. These annual costs are not included in this project cost. For budgeting purposes, a \$12,000 maintenance fee is suggested.

BUILDING INFORMATION:

Gross Area (square feet): 11,175

Year Constructed: 2000

Exterior Finish 1: 90 # Natural Grey CMU

Exterior Finish 2: 10 # Glass and Steel

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 # B
IBC Occupancy Type 2: #

Construction Type: Concrete Masonry & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$106.81 **Priority Class 1:** \$383,363 **Project Construction Cost per Square Foot** \$3,911,000 **Priority Class 2:** \$810,225 **Total Facility Replacement Construction Cost** \$350 **Priority Class 3:** \$0 Facility Replacement Cost per Square Foot 31% **FCNI: Grand Total:** \$1,193,588

25-Aug-17 Page 98 of 135

VISITATION

SPWD Facility Condition Analysis - 2093

Survey Date: 11/1/2016

VISITATION BUILDING REPORT

The Visitation building is located on the southwest side, adjacent to the secured area at High Desert Prison. The building is constructed of concrete masonry units, a concrete slab-on-grade foundation, prefabricated steel frame trusses, and a single-ply membrane roof. The building is used for visitation of inmates and contains a large contact visitation area, restrooms, small office area and individual non-contact visitation areas.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects: \$386,850

Currently Critical Immediate to Two Years

ADA ACCESSIBLE COUNTER

The ADA provides for accessibility to sites and services for people with physical limitations. The lobby at the entrance of the building has a service counter for the public to approach which does not meet current requirements. Section 904.4 of the ADA Standards for Accessible Design states that a portion of the counter surface that is 36" long minimum and 36" high maximum above the finish floor shall be provided. This project will provide an accessible counter space in accordance with this requirement. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

Project Index #:

Construction Cost

2093ADA2

\$4,000

ADA RESTROOM FIXTURES

Project Index #: 2093ADA3
Construction Cost \$1,000

The fixtures in the ADA restrooms are worn and damaged from many years of use including the water closets, urinals, lavatories, faucets, shower heads and handles. Many fixtures are or have been leaking and have caused extensive scaling and staining to the fixtures themselves. It is recommended that all fixtures be replaced with new ADA compliant units. This project includes removal and disposal of the existing fixtures and installation of new fixtures. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA TABLE UPGRADE Project Index #: 2093ADA1
Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

ADA UPGRADES Project Index #: 2093ADA4
Construction Cost \$600

ADA regulations pertaining to building access, route of travel and restrooms has established building signage criteria for permanent spaces in buildings. The criteria includes: sign mounting heights and locations; character heights and proportions; raised and Braille characters/pictograms; and sign contrast and finish. This project would provide funding for purchase and installation of ADA signage including directional signage from parking to accessible building entrances, route of travel inside the building and restrooms. It is recommended that applicable signage be installed where required. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

25-Aug-17 Page 99 of 135

ELECTRICAL AND COMMUNICATIONS UPGRADE

Project Index #: 2093ELE1 **Construction Cost** \$279,850

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

FIRE ALARM SYSTEM REPLACEMENT

Construction Cost \$89,400 This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due

2093SFT3

2093SFT2

2093SEC1

\$9,000

Project Index #:

Project Index #:

Project Index #:

Construction Cost

to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$628,790

Necessary - Not Yet Critical Two to Four Years

DOOR CONTROLS SYSTEM REPLACEMENT

Construction Cost \$30,000 The control panel/ inmate movement and control system in the building is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a

programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

Project Index #: 2093EXT1 **EXTERIOR FINISHES Construction Cost** \$111,940 It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in

the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended

accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT

Project Index #: 2093INT3 **Construction Cost** \$45,000

The VCT in the building is damaged and reaching the end of its useful life. It is recommended that the flooring be replaced. This project would provide for removal and disposal of the existing flooring and installation of new 12x12 VCT with a 6" base in the next 2-3 years.

> 25-Aug-17 Page 100 of 135

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2093HVA1 Construction Cost \$167,910

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

2093INT1

2093INT2

2093PLM2

2093PLM1

\$25,000

\$1,500

\$1,400

\$111,940

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

Project Index #:
INTERIOR FINISHES
Construction Cost

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

JANITORS CLOSET REPAIRS

The walls adjacent to and above the janitor's closet mop sink did not have a water resistant finish. This project recommends the installation of fiberglass reinforced panels on the walls adjacent to the mop sink to a height of 54" above the finish floor.

ROOF REPLACEMENT Project Index #: 2093EXT3
Construction Cost \$134,100

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

WATER HEATER REPLACEMENT

There is a 40 gallon electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

WATER TREATMENT SYSTEM REPLACEMENT

The existing water softening/ treatment systems in the building are currently not operational. They are original to the building and approaching the end of their lifecycles. Failure of the equipment causes wear and tear on the domestic water supply lines, plumbing fixtures and HVAC equipment. This project would provide for the replacement of the existing water softeners/ treatment systems with new equipment. This project would also provide for a chemical treatment program including an updated chemicals control system, service and employee training provided by a qualified water treatment vendor. The annual maintenance fee charged by the water treatment vendor would be determined after an investigation of the water system is complete. These annual costs are not included in this project cost. For budgeting purposes, a \$12,000 maintenance fee is suggested.

25-Aug-17 Page 101 of 135

BUILDING INFORMATION:

Gross Area (square feet): 11,194

Year Constructed: 2000

Exterior Finish 1: 85 # Natural Grey CMU

Exterior Finish 2: 15 # Glass and Steel

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 50 # A-3 IBC Occupancy Type 2: 50 # I-3

Construction Type: Concrete Masonry & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$90.73	Project Construction Cost per Square Foot	\$386,850	Priority Class 1:
\$3,918,000	Total Facility Replacement Construction Cost	\$628,790	Priority Class 2:
\$350	Facility Replacement Cost per Square Foot	\$0	Priority Class 3:
26%	FCNI:	\$1,015,640	Grand Total:

25-Aug-17 Page 102 of 135

PROGRAM SERVICES/ EDUCATION SPWD Facility Condition Analysis - 2092

Survey Date: 11/1/2016

PROGRAM SERVICES/ EDUCATION BUILDING REPORT

The Program Services/ Education building is located on the southwest corner inside the secured area at High Desert State Prison. The building is constructed of concrete masonry units, a concrete slab-on-grade foundation, prefabricated steel frame trusses, and a single-ply membrane roof. The building contains a chapel, educational classrooms, and the library.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$1,121,516

Currently Critical Immediate to Two Years

ADA DOOR HARDWARE REPLACEMENT

Project Index #: 2092ADA1 Construction Cost \$2,000

The 2010 ADA Standards for Accessible Design states that the force to activate operable parts shall be 5 pounds maximum. It is recommended that 5 pounds or less closers be installed on the men's and woman's ADA restroom doors. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and Sections 309.4 and 404.2.7 of the 2010 ADA Standards for Accessible Design were used as references for this project.

ELECTRICAL AND COMMUNICATIONS UPGRADE

Project Index #: 2092ELE2 Construction Cost \$841,300

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2092SFT2
Construction Cost \$269,216

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2092SFT1 Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

25-Aug-17 Page 103 of 135

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$1,475,336

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

2092INT3

2092HVA1

2092INT2

\$1.500

\$504,780

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2092EXT1 EXTERIOR FINISHES **Construction Cost** \$336,520

It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT **Construction Cost** \$269,216 The VCT and carpet in the building are damaged and reaching the end of their useful life. It is recommended that the

flooring be replaced. This project would provide for removal and disposal of the existing flooring and installation of new 12x12 VCT with a 6" base and heavy duty commercial grade carpet in the next 2-3 years.

Project Index #: 2092ELE1 **GFCI OUTLETS Construction Cost** \$400

The existing receptacle in the mechanical room is a standard duplex receptacle. The 2011 NEC 210.8 require this location to have GFCI protection. This project would provide for removing the standard receptacle and installing a GFCI receptacle.

HVAC EQUIPMENT REPLACEMENT

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

Project Index #: 2092INT1 INTERIOR FINISHES **Construction Cost** \$336,520

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

JANITORS CLOSET REPAIRS

Construction Cost \$1,400 The walls adjacent to and above the janitor's closet mop sink did not have a water resistant finish. This project

recommends the installation of FRP on the walls adjacent to the mop sink to a height of 54" above the finish floor. 2092PLM1 **Project Index #:**

WATER HEATER REPLACEMENT

There is a 40 gallon electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

> 25-Aug-17 Page 104 of 135

Project Index #: 2092PLM2 Construction Cost \$25,000

WATER TREATMENT SYSTEM REPLACEMENT

The existing water softening/ treatment systems in the building are currently not operational. They are original to the building and approaching the end of their lifecycles. Failure of the equipment causes wear and tear on the domestic water supply lines, plumbing fixtures and HVAC equipment. This project would provide for the replacement of the existing water softeners/ treatment systems with new equipment. This project would also provide for a chemical treatment program including an updated chemicals control system, service and employee training provided by a qualified water treatment vendor. The annual maintenance fee charged by the water treatment vendor would be determined after an investigation of the water system is complete. These annual costs are not included in this project cost. For budgeting purposes, a \$12,000 maintenance fee is suggested.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$504,870

Long-Term Needs Four to Ten Years

ROOF REPLACEMENT

Project Index #: 2092LGT1 Construction Cost \$504,870

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

BUILDING INFORMATION:

Gross Area (square feet): 33,652

Year Constructed: 2000

Exterior Finish 1: 100 # Natural Grey CMU

Exterior Finish 2: #

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 # B
IBC Occupancy Type 2: #

Construction Type: Concrete Masonry & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$92.17 **Priority Class 1: Project Construction Cost per Square Foot** \$1,121,516 \$11,778,000 **Priority Class 2: Total Facility Replacement Construction Cost** \$1,475,336 \$350 **Priority Class 3:** \$504,870 Facility Replacement Cost per Square Foot 26% **FCNI: Grand Total:** \$3,101,722

25-Aug-17 Page 105 of 135

INMATE SERVICES/ CULINARY/ DINING SPWD Facility Condition Analysis - 2091

Survey Date: 11/1/2016

INMATE SERVICES/ CULINARY/ DINING BUILDING REPORT

The Inmate Services/ Culinary/ Dining building is located on the west side of High Desert State Prison. The building is constructed of concrete masonry units, a concrete slab-on-grade foundation, prefabricated steel trusses, metal decking, and has a single-ply membrane roof. The interior of the building primarily consists of dining areas, kitchen, bakery, bulk storage and distribution, large mechanical/ electrical room, laundry room and a canteen for inmates. The laundry and culinary areas of the building were designed to accommodate additional equipment for expansion.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$2,565,165

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost \$1,925,125

2091ELE2

2091SFT2

2091SFT3

\$9,000

\$616,040

Currently Critical

Immediate to Two Years

ADA TABLE UPGRADE Project Index #: 2091ADA1
Construction Cost \$7,000

Per the United States Access Board Section 226.1 where dining surfaces are provided for the consumption of food or drink, at least 5 percent of the seating spaces and standing spaces at the dining surfaces shall comply with 902. ICC ANSI-A117.1-2009 Section 902 which says, if fixed seating is provided, a loose seat or open space for a wheelchair location must be available at those accessible tables. This project would provide funding to remove 4 of the fixed seats, which will allow access for seven wheel chairs.

ELECTRICAL AND COMMUNICATIONS UPGRADE

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

25-Aug-17 Page 106 of 135

PANIC HARDWARE IN ELECTRICAL ROOMS

Project Index #: 2091SFT4 Construction Cost \$3,000

The electrical room with the uninterruptable power supply contains equipment that meets or exceeds 1,200 amps. It is recommended per the 2012 IBC 1008.1.10 that panic and fire exit hardware be installed. This equipment was not required when the building was constructed in 2000. When a remodel occurs, it is suggested to comply with current code. It is recommended that this project be completed within 1-2 years. The estimate is based on one door that requires panic hardware.

STEAM PIPE BRACING/ SUPPORT

Project Index #: 2091STR1
Construction Cost \$5,000

During the visit to the bulk storage/ distribution area of this building, the high pressure steam pipes suspended from the ceiling were moving and shaking violently. It appears that there were surges of pressure in the steam lines that were causing a hammer-locking type condition. The pipes have vibrated badly enough that pieces of the FRP pipe insulation and the metal protective sleeves have fallen from the ceiling mounted pipes. This is a safety concern that needs to be addressed immediately. According to the original drawings, these high pressure steam pipes have 150 psig and there are special system design and inspection/ maintenance parameters and procedures that are required. This project would provide for a licensed Mechanical Engineer who specializes in steam boiler design to investigate this condition and provided a report on the conditions that are causing the condition mentioned above. Future projects would be based on this report.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$4,649,550

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2091SFT1
CATWALKS

Construction Cost \$130,500

The mechanical room has equipment located about 20 feet above the finish floor that need to be monitored or serviced on a regular basis. Currently the maintenance staff is using ladders or climbing on the equipment. This project would provide for the installation of 100 feet long, 2 foot wide of catwalk with guard rails and one set of stairs. All required structural supports are included in this project.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

DISHWASHER REPLACEMENT

Project Index #: 2091CUL1 Construction Cost \$350,000

The commercial dishwashers in the kitchen appear to be original to the building and are troublesome and problematic to operate. Considering the age of the dishwashers and the evolving needs of the facility they are recommended to be replaced. This project provides for removal and disposal of the two existing dishwashers and replacement with two new units.

ELECTRICAL UPGRADE

Project Index #: 2091ELE1 Construction Cost \$5,000

The electrical system within the building needs to have repairs made and an inspection on the main electrical distribution panel. Light switches are broken, electrical covers missing, and parts are missing out of the electrical distribution panel. The maintenance staff said the electrical distribution panel is at or over its rating capacity. This project recommends hiring a professional licensed electrician to make repairs and determine if the main electrical distribution panel is at or over its rated capacity. Future projects would be based on the information provided. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

25-Aug-17 Page 107 of 135

Project Index #: 2091EXT4
EXTERIOR FINISHES Construction Cost \$770,050

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide funding to protect the exterior of the building excluding the roof. Included in the cost are cleaning and sealing the concrete masonry units and caulking of the windows, flashing, fixtures and all other penetrations. It is recommended that the building be sealed and caulked in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

2091PLM2

2091HVA1

2091HVA2

2091INT1

\$2,800

\$250,000

\$12,000

Project Index #:

Project Index #:

Construction Cost

Project Index #:

Project Index #:

Construction Cost

Construction Cost \$1,155,075

Construction Cost

GREASE WASTE INTERCEPTOR

The automatic grease waste separator system for the Kitchen is failing to perform as intended. The system is constantly getting clogged with plastic kitchen utensils and other items disposed of by the inmates. The system has clogged and overflowed onto the floor creating a safety and health hazard. This project would provide for bypassing this equipment and having the waste go directly into the grease interceptor located below grade outside. The facility maintenance staff would have a third party vendor provide pumping services per a routine preventive maintenance schedule based on usage developed by staff to meet the demands of the system. The project cost represents an estimated yearly amount required for this service.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

HOT WATER RE-USE ROOM REMODEL

The hot water re-use room was designed to recycle hot final rinse water to be used as a pre-rinse and provide adequate pressure to laundry washers. During the time of the survey, the equipment required high maintenance, parts were obsolete, the holding tanks had failures and the system had been changed over to a cold wash and rinse system for energy savings. The hot water re-use area is due for a remodel to increase capacity and support the cold wash and rinse system. A mechanical engineer is needed to redesign the area and this project would provide for remodeling the existing area.

HVAC EQUIPMENT REPLACEMENT

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

Project Index #: 2091INT2
INTERIOR FINISHES Construction Cost \$770,050

The Inmate Services/Culinary/Dining building has painted CMU walls. All flooring is sealed concrete and non-slip tile. It is recommended that the interior walls be painted and/or sealed at least once in the next 2-4 years. This also includes the sealing of the floor and floor tile maintenance in the kitchen and bakery area. Prior to painting or sealing, all surface should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

JANITORS CLOSET REPAIRS

The mop sinks in the Janitors Closets are mounted adjacent to CMU walls and are showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

25-Aug-17 Page 108 of 135

ROOF REPLACEMENT Project Index #: 2091EXT3
Construction Cost \$1,155,075

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

SUMP PUMP Project Index #: 2091PLM1
Construction Cost \$11,500

The sump pump in the mechanical room portion of the building is constantly failing. The ½ H.P. pump cannot handle al of the potential water that may flow into the pit. This project recommends the installation of 1H.P. sump pump to replace the existing pump.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

WATER HEATER REPLACEMENT

There are five electric on-demand water heaters that are 5-gallon capacity in the building. The average life span of the water heaters is eight to ten years. With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that 5 new 5-gallon on-demand electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

WATER TREATMENT SYSTEM REPLACEMENT

The existing water softening/ treatment systems in the building are currently not operational. They are original to the building and approaching the end of their lifecycles. Failure of the water softening/ treatment system causes additional wear and tear on the domestic water supply lines, water heaters and plumbing fixtures. This project would provide for the installation of a PRV (to be installed prior to the water softener/ treatment system) and the replacement of the existing water softeners/ treatment systems with new equipment. This project would also provide for a chemical treatment program to include an updated chemical control system, service and employee training to be provided by a qualified water treatment vendor. The annual maintenance fee charged by the water treatment vendor would be determined after an investigation of the water system is complete. These annual costs are not included in this project cost. For budgeting purposes, a \$12,000 fee is suggested.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$693,045

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

2091PLM3

2091PLM4

2091INT3

\$693,045

\$25,000

\$12,500

Long-Term Needs Four to Ten Years

FLOORING REPLACEMENT

The tile in the building is damaged and reaching the end of its useful life. It is recommended that the flooring be replaced. This project would provide for removal and disposal of the existing flooring and installation of new culinary grade tile in the next 4-5 years.

25-Aug-17 Page 109 of 135

BUILDING INFORMATION:

Gross Area (square feet): 77,005

Year Constructed: 2000

Exterior Finish 1: 100 # Natural Grey CMU

Exterior Finish 2: #

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: #

Construction Type: Concrete Masonry & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1: \$2,565,165 Project Construction Cost per Square Foot \$102.69

Priority Class 2: \$4,649,550 Total Facility Replacement Construction Cost \$28,877,000

Priority Class 3: \$693,045 Facility Replacement Cost per Square Foot \$375

Grand Total: \$7,907,760 FCNI: 27%

25-Aug-17 Page 110 of 135

INFIRMARY/ INTAKE

SPWD Facility Condition Analysis - 2090

Survey Date: 11/1/2016

INFIRMARY/ INTAKE BUILDING REPORT

The Infirmary/ Intake building is located on the west side of High Desert State Prison. The building is constructed of concrete masonry units, a concrete slab-on-grade foundation, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used for all medical related services and intake for new or transferring inmates.

PRIORITY CLASS 1 PROJECTS Total Construction Cost for Priority 1 Projects:

\$524,138

2090ADA3

2090ADA1

\$225,000

\$4,000

Currently Critical Immediate to Two Years

Project Index #: 2090ADA4 Construction Cost \$4,000

Project Index #:

Project Index #:

Construction Cost

Construction Cost

ADA ACCESSIBLE COUNTER

The ADA provides for accessibility to sites and services for people with physical limitations. The nurse's station at the entrance of the building has a service counter which does not meet current requirements. Section 904.4 of the ADA Standards for Accessible Design states that a portion of the counter surface that is 36" long minimum and 36" high maximum above the finish floor shall be provided. This project will provide an accessible counter space in accordance with this requirement. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA EMPLOYEE LOUNGE UPGRADES

In order to comply with current ADA requirements, modification will be necessary for the employee lounge and the sinks. It is recommended to upgrade some of the features of the rooms for compliance with accessibility standards for employees. This project would provide funding for construction of an accessible sink and faucet, an accessible space at one of the dining tables and an accessible path of travel throughout the room. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA SHOWER UPGRADE

This project would provide for nine ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of nine stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ANCHOR SHELVES Project Index #: 2090SFT2
Construction Cost \$10,000

OSHA recommends that the bottom of all columns be furnished with column base plates, and be anchored to the floor with anchor bolts capable of resisting the forces caused by the loads on the shelving unit. Per OSHA standard 1926.250(a)(1) All materials stored in tiers shall be stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, falling or collapse. This project would provide for a licensed contractor to install anchor bolts and properly secure the shelving units to the floor and to the other shelves. This project should be overseen by a licensed engineer or architect.

25-Aug-17 Page 111 of 135

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

Project Index #: 2090ADA2 Construction Cost \$8,000

2090SFT3

2090SFT4

2090ELE2

2090SEC2

2090SEC1

\$30,000

\$800,000

\$250

\$9,000

\$263,888

Project Index #:

Project Index #:

Project Index #: Construction Cost

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

Construction Cost

This building contains several water fountains that are not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

PROVIDE CLEARANCE AT ELECTRICAL PANELS

There are electrical panels in the building which do not have proper clear floor space around them. The 2012 IFC Section 605.3 states that, A working space of not less than 30 inches in width, 36 inches in depth and 78 inches in height shall be provided in front of electrical service equipment. Where the electrical service equipment is wider than 30 inches, the working space shall not be less than the width of the equipment. No storage of any materials shall be located within the designated working space. This project would provide funds to relocate the items currently blocking the working space.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$2,728,516

Necessary - Not Yet Critical Two to Four Years

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

Infirmary/ Intake was constructed in 2000. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. A total of 100 doors were used for this estimate. Removal and disposal of the existing equipment is included in this estimate.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

25-Aug-17 Page 112 of 135

Project Index #: 2090INT4
DRYER REPLACEMENT Construction Cost \$8,000

The commercial tumbler dryer in the laundry area is original to the building and is troublesome and problematic to operate. Considering the age of the machine and the evolving needs of the facility it is recommended to be replaced. This project provides for the removal and disposal of the existing tumbler dryer and replacement with a new unit. A tota of 1 dryer was used for this estimate.

Project Index #: 2090EXT1
EXTERIOR FINISHES Construction Cost \$329,860

It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

FLOORING REPLACEMENT Project Index #: 2090INT2

Substitution Cost \$296,874

The VCT flooring in the Infirmary/ Intake is damaged and reaching the end of its useful life. It is recommended that the VCT flooring be replaced. This project would provide for removal and disposal of the VCT and installation of new 12x12 VCT with a 6" base.

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2090HVA2
Construction Cost \$494,790

The air handler fan coils and related equipment are original to the building (2000). The equipment has consistent problems and has reached its expected life span. This project recommends replacement of all air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

Project Index #: 2090INT1
INTERIOR FINISHES Construction Cost \$329,860

It is recommended to paint the interior walls and ceilings at least once in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure. Prior to painting, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

JANITORS CLOSET REPAIRS

Project Index #: 2090INT5
Construction Cost \$2,800

The mop sinks in the Janitor Closets are mounted adjacent to CMU walls and are showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

ROOF REPLACEMENT Project Index #: 2090EXT2
Construction Cost \$395.832

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time-frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

25-Aug-17 Page 113 of 135

VENTILATION Project Index #: 2090HVA1
Construction Cost \$5,000

At the time of the survey, the mechanical room was extremely warm. It did not appear to have air conditioning or ventilation. This is causing the motors to become hot and will cause premature failure. This project recommends adding a ventilation system for proper temperature control of the mechanical room.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

WASHING MACHINE REPLACEMENT

One of the existing commercial washing machines appears to be a year 2000 model and has reached the end of its useful life. It is showing signs of age, and is constantly breaking down. This project would provide funding for the purchase and installation of one new 60lb. commercial washing machine.

WATER HEATER REPLACEMENT

There is a 40 gallon electric water heater in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, this unit is showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that a new electric water heater be installed. Removal and disposal of the existing equipment is included in this estimate.

WATER TREATMENT SYSTEM REPLACEMENT

The existing water softening/ treatment systems in the building are currently not operational. They are original to the building and approaching the end of their lifecycles. Failure of the equipment causes wear and tear on the domestic water supply lines, plumbing fixtures and HVAC equipment. This project would provide for the replacement of the existing water softeners/ treatment systems with new equipment. This project would also provide for a chemical treatment program including an updated chemicals control system, service and employee training provided by a qualified water treatment vendor. The annual maintenance fee charged by the water treatment vendor would be determined after an investigation of the water system is complete. These annual costs are not included in this project cost. For budgeting purposes, a \$12,000 maintenance fee is suggested.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$824,650

Project Index #:

Project Index #:

Project Index #:

Project Index #:

Construction Cost

Construction Cost

Construction Cost

Construction Cost

2090INT3

2090PLM3

2090PLM2

2090ELE4

\$824,650

\$25,000

\$1,500

\$9,000

Long-Term Needs Four to Ten Years

ELECTRICAL AND COMMUNICATIONS UPGRADE

This building was constructed before the high demand for electrical services were needed for computers, communications systems and other electrical devices. As time has progressed, the buildings electrical demand and communications system has changed. The electrical system is utilized to its current maximum potential and the communications system is outdated. The electrical panels, switches and receptacles are at their limit. It is recommended to upgrade the entire electrical system and communications system to meet the evolving needs of the building.

25-Aug-17 Page 114 of 135

BUILDING INFORMATION:

Gross Area (square feet): 32,986

Year Constructed: 2000

Exterior Finish 1: 100 # Natural Grey CMU

Exterior Finish 2: #

Number of Levels (Floors): 1 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2:

Construction Type: Concrete Masonry & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1:	\$524,138	Project Construction Cost per Square Foot	\$123.61
Priority Class 2:	\$2,728,516	Total Facility Replacement Construction Cost	\$11,545,000
Priority Class 3:	\$824,650	Facility Replacement Cost per Square Foot	\$350
Grand Total:	\$4,077,304	FCNI:	35%

25-Aug-17 Page 115 of 135

HOUSING UNIT #3

SPWD Facility Condition Analysis - 2089

Survey Date: 11/1/2016

HOUSING UNIT #3 BUILDING REPORT

The Housing Unit #3 is situated along the southeast secured side of High Desert State Prison. The building is constructed of tilt-up concrete walls, concrete floors at lower and upper levels, a concrete slab-on-grade foundation, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used to house inmates at the prison.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$2,309,333

Currently Critical

Immediate to Two Years

ADA SHOWER UPGRADE

Project Index #: 2089ADA4
Construction Cost \$75,000
ts to be installed to provide shower

This project would provide for three ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of three stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA TABLE UPGRADE Project Index #:

Construction Cost

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

COMMUNICATIONS SYSTEM UPGRADE

Project Index #: 2089SEC1 Construction Cost \$222,500

Construction Cost \$1,438,241

Project Index #:

Project Index #:

Construction Cost

2089ADA1

2089SEC3

2089ADA3

\$4,000

\$3,000

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/ inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

This building contains a water fountain that is not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

25-Aug-17 Page 116 of 135

ELECTRICAL OUTLET & CABLE UPGRADES

Project Index #: 2089SFT5 Construction Cost \$74,592

At the time of the survey the building had residential and commercial cover plates over the electrical outlets and coaxial wires. This poses a safety hazard allowing inmates to remove them and use them as weapons. This could be a safety hazard to inmates and guards. This project would provide for the installation of new security grade cover plates throughout the entire housing unit.

EVAPORATIVE COOLER REPLACEMENT

Project Index #: 2089HVA3 Construction Cost \$4,000

There is a guard stationed on the roof to look out onto the yard. They have one overhead swamp cooler to keep them cool in the warmer months. At the time of the survey the swamp cooler was not working. It is severely scaled and has reached the end of its useful and expected life. This project would provide for a new evaporative cooler to be installed including all required connections to utilities. The estimate includes removal and disposal of the old cooler.

EXHAUST FAN INSTALLATION

Project Index #: 2089HVA1 Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2089SFT4
Construction Cost \$356,000

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2089SFT3
Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

ROOF HATCH REPLACEMENT

Project Index #: 2089SFT6
Construction Cost \$10,000

The roof hatches are original to the building and have reached the end of their useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for the removal and the disposal of the existing roof hatches and for the purchase and installation of new roof hatches.

SPRINKLER HEAD REPLACEMENT

Project Index #: 2089SFT2 Construction Cost \$40,000

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

25-Aug-17 Page 117 of 135

TDD INSTALLATION Project Index #: 2089ADA2
Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

WALKWAY RAILING

Project Index #: 2089STR1

Construction Cost \$3,000

The perimeter roof walkway guardrail is failing. The railing is loose or not attached and is posing a potential safety problem. This project recommends an assessment be performed by a Structural Engineer to determine the cause and provide a design solution. Future projects will be based on the design solution recommendation.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$3,580,275

Project Index #:

Construction Cost

2089PLM2

\$504,000

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2089SEC2
CELL DOORS, LOCKS AND CONTROLS REPLACEMENT Construction Cost \$421,875

The Housing Unit was constructed in 2000. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

CELL WATER CONTROL SYSTEMS REPLACEMENT

This building is equipped with cell water control systems that are outdated and should be scheduled for replacement. Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

COMPUTER WATER CONTROL SYSTEM REPLACEMENT

Project Index #: 2089PLM4
Construction Cost \$50,000

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

Project Index #: 2089ELE1
ELECTRICAL TRANSFORMER REPLACEMENT Construction Cost \$5,000

The 50 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

Project Index #: 2089EXT0
EXTERIOR FINISHES Construction Cost \$445,000

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide for caulking all control joints and penetrations on a cyclical basis. The metal doors and window frames should also be sanded and painted a on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

25-Aug-17 Page 118 of 135

HVAC EQUIPMENT REPLACEMENT

Project Index #: 2089HVA2 Construction Cost \$667,500

Project Index #:

Construction Cost

2089INT3

\$1,400

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends the replacement of all air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

Project Index #: 2089INT1
INTERIOR FINISHES Construction Cost \$445,000

The interior finishes are in fair condition. It is recommended that the interior walls and floors be painted or sealed at least once in the next four to six years. Prior to painting or sealing, all surfaces should be repaired and prepped. An epoxy-based paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

JANITORS CLOSET REPAIRS

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

Project Index #: 2089ENR1
LIGHTING UPGRADE Construction Cost \$356,000

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

ROOF REPLACEMENT Project Index #: 2089EXT2
Construction Cost \$667,500

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT Project Index #: 2089PLM3 Construction Cost \$15,000

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

WATER HEATER REPLACEMENT Project Index #: 2089PLM1 Construction Cost \$2,000

There are two 18 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that two new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

25-Aug-17 Page 119 of 135

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$300,000

Long-Term Needs Four to Ten Years

Project Index #: 2089INT5
SHOWER UPGRADE Construction Cost \$300,000

There are twelve shower stalls in the building that are showing signs of failure and should be scheduled for repair or replacement. This project would provide for twelve stainless steel shower cabinets to be installed to provide shower facilities for the housing unit. Removal and disposal of the existing materials is included in the estimate.

BUILDING INFORMATION:

Gross Area (square feet): 44,500

Year Constructed: 2000

Exterior Finish 1: 100 # Tilt-Up Concrete

Exterior Finish 2:

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2:

Construction Type: Tilt-Up Concrete & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

Priority Class 1:	\$2,309,333	Project Construction Cost per Square Foot	\$139.09
Priority Class 2:	\$3,580,275	Total Facility Replacement Construction Cost	\$15,575,000
Priority Class 3:	\$300,000	Facility Replacement Cost per Square Foot	\$350
Grand Total:	\$6,189,608	FCNI:	40%

25-Aug-17 Page 120 of 135

HOUSING UNIT #4

SPWD Facility Condition Analysis - 2088

Survey Date: 11/1/2016

HOUSING UNIT #4 BUILDING REPORT

The Housing Unit #4 is situated along the southeast secured side of High Desert State Prison. The building is constructed of tilt-up concrete walls, concrete floors at lower and upper levels, a concrete slab-on-grade foundation, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used to house inmates at the prison.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$2,304,833

Currently Critical Immediate to Two Years

ADA SHOWER UPGRADE

Project Index #: 2088ADA4
Construction Cost \$75,000

This project would provide for three ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of three stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA TABLE UPGRADE Project Index #: 2088ADA1
Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

COMMUNICATIONS SYSTEM UPGRADE

Project Index #: 2088SEC2 Construction Cost \$222,500

Construction Cost \$1,438,241

Project Index #:

Project Index #:

Construction Cost

2088SEC4

2088SFT5

\$74,592

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/ inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

ELECTRICAL OUTLET & CABLE UPGRADES

At the time of the survey the building had residential and commercial cover plates over the electrical outlets and coaxial wires. This poses a safety hazard allowing inmates to remove them and use them as weapons. This could be a safety hazard to inmates and guards. This project would provide for the installation of new security grade cover plates throughout the entire housing unit.

25-Aug-17 Page 121 of 135

EVAPORATIVE COOLER REPLACEMENT

Project Index #: 2088HVA3 Construction Cost \$4,000

There is a guard stationed on the roof to look out onto the yard. They have one overhead swamp cooler to keep them cool in the warmer months. At the time of the survey the swamp cooler was not working. It is severely scaled and has reached the end of its useful and expected life. This project would provide for a new evaporative cooler to be installed including all required connections to utilities. The estimate includes removal and disposal of the old cooler.

EXHAUST FAN INSTALLATION

Project Index #: 2088HVA1 Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2088SFT4
Construction Cost \$356,000
m. Parts cannot be obtained and du

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2088SFT3
Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

ROOF HATCH REPLACEMENT

Project Index #: 2088SFT6
Construction Cost \$10,000

The roof hatches are original to the building and have reached the end of their useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for the removal and the disposal of the existing roof hatches and for the purchase and installation of new roof hatches.

SPRINKLER HEAD REPLACEMENT

Project Index #: 2088SFT2 Construction Cost \$40,000

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION Project Index #: 2088ADA2
Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

25-Aug-17 Page 122 of 135

2088STR1 **Project Index #:** WALKWAY RAILING **Construction Cost** \$2,500

The perimeter roof walkway guardrail is failing. The railing is loose or not attached and is posing a potential safety problem. This project recommends an assessment be performed by a Structural Engineer to determine the cause and provide a design solution. Future projects will be based on the design solution recommendation.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$3,880,275

Project Index #:

2088SEC3

2088PLM2

Two to Four Years **Necessary - Not Yet Critical**

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

Removal and disposal of the existing equipment is included in this estimate.

Construction Cost \$421.875 The Housing Unit was constructed in 2000. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls.

Project Index #: CELL WATER CONTROL SYSTEMS REPLACEMENT

Construction Cost \$504,000 This building is equipped with cell water control systems that are outdated and should be scheduled for replacement. Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and

experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

Project Index #: 2088PLM4 COMPUTER WATER CONTROL SYSTEM REPLACEMENT **Construction Cost** \$50,000

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

Project Index #: 2088ELE1 ELECTRICAL TRANSFORMER REPLACEMENT **Construction Cost** \$5,000

The 50 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

Project Index #: 2088EXT1 EXTERIOR FINISHES **Construction Cost** \$445,000

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide for caulking all control joints and penetrations on a cyclical basis. The metal doors and window frames should also be sanded and painted a on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #: 2088HVA2 HVAC EQUIPMENT REPLACEMENT **Construction Cost** \$667,500

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends replacement of the air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

> 25-Aug-17 Page 123 of 135

Project Index #: 2088INT1
INTERIOR FINISHES Construction Cost \$445,000

The interior finishes are in fair condition. It is recommended that the interior walls and floors be painted or sealed at least once in the next 2-3 years. Prior to painting or sealing, all surfaces should be repaired and prepped. An epoxybased paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

JANITORS CLOSET REPAIRS

Construction Cost \$1,400

Project Index #:

2088INT3

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

Project Index #: 2088ENR1
LIGHTING UPGRADE Construction Cost \$356,000

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

ROOF REPLACEMENT Project Index #: 2088EXT2
Construction Cost \$667,500

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

SHOWER UPGRADE Project Index #: 2088INT2
Construction Cost \$300,000

There are twelve shower stalls in the building that are showing signs of failure and should be scheduled for repair or replacement. This project would provide for twelve stainless steel shower cabinets to be installed to provide shower facilities for the housing units. Removal and disposal of the existing materials is included in the estimate.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

Project Index #: 2088PLM3
Construction Cost \$15,000

The showers do not have water control systems in place. It is recommended to install new water control systems within the next 2-3 years. Installing water control systems will reduce the water usage in the building. This project includes the installation of new water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

WATER HEATER REPLACEMENT Project Index #: 2088PLM1
Construction Cost \$2,000

There are two 18 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that two new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

25-Aug-17 Page 124 of 135

BUILDING INFORMATION:

Gross Area (square feet): 44,500

Year Constructed: 2000

Exterior Finish 1: 100 # Tilt-Up Concrete

Exterior Finish 2: #

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: #

Construction Type: Tilt-Up Concrete & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$138.99	Project Construction Cost per Square Foot	\$2,304,833	Priority Class 1:
\$15,575,000	Total Facility Replacement Construction Cost	\$3,880,275	Priority Class 2:
\$350	Facility Replacement Cost per Square Foot	\$0	Priority Class 3:
40%	FCNI:	\$6,185,108	Grand Total:

25-Aug-17 Page 125 of 135

HOUSING UNIT #2

SPWD Facility Condition Analysis - 2087

Survey Date: 11/1/2016

HOUSING UNIT #2 BUILDING REPORT

The Housing Unit #2 is situated along the west/north secured side of High Desert State Prison. The building is constructed of tilt-up concrete walls, concrete floors at lower and upper levels, a concrete slab-on-grade foundation, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used to house inmates at the prison.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$2,309,333

Currently Critical Immediate to Two Years

ADA SHOWER UPGRADE

Project Index #: 2087ADA4
Construction Cost \$75,000

Project Index #:

Project Index #:

Construction Cost \$1,438,241

Construction Cost

2087SEC1

2087SEC3

\$222,500

This project would provide for three ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of three stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA TABLE UPGRADE Project Index #: 2087ADA1

Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

COMMUNICATIONS SYSTEM UPGRADE

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

DOOR CONTROLS SYSTEM REPLACEMENT

The control panel/inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

25-Aug-17 Page 126 of 135

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION

Project Index #: 2087ADA3 Construction Cost \$4,000

This building contains a water fountain that is not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

ELECTRICAL OUTLET & CABLE UPGRADES

Project Index #: 2087SFT5 Construction Cost \$74,592

At the time of the survey the building had residential and commercial cover plates over the electrical outlets and coaxial wires. This poses a safety hazard allowing inmates to remove them and use them as weapons. This could be a safety hazard to inmates and guards. This project would provide for the installation of new security grade cover plates throughout the entire housing unit.

EVAPORATIVE COOLER REPLACEMENT

Project Index #: 2087HVA3 Construction Cost \$4,000

There is a guard stationed on the roof to look out onto the yard. They have one overhead swamp cooler to keep them cool in the warmer months. At the time of the survey the swamp cooler was not working. It is severely scaled and has reached the end of its useful and expected life. This project would provide for a new evaporative cooler to be installed including all required connections to utilities. The estimate includes removal and disposal of the old cooler.

EXHAUST FAN INSTALLATION

Project Index #: 2087HVA1
Construction Cost \$10,000

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE ALARM SYSTEM REPLACEMENT

Project Index #: 2087SFT4
Construction Cost \$356,000

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

Project Index #: 2087SFT3
Construction Cost \$9,000

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

ROOF HATCH REPLACEMENT

Project Index #: 2087SFT6
Construction Cost \$10,000

The roof hatches are original to the building and have reached the end of their useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for the removal and the disposal of the existing roof hatches and for the purchase and installation of new roof hatches.

25-Aug-17 Page 127 of 135

SPRINKLER HEAD REPLACEMENT

Project Index #: 2087SFT2 Construction Cost \$40,000

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION Project Index #: 2087ADA2
Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

WALKWAY RAILING

Project Index #: 2087STR1

Construction Cost \$3,000

The perimeter roof walkway guardrail is failing. The railing is loose or not attached and is posing a potential safety problem. This project recommends an assessment be performed by a Structural Engineer to determine the cause and provide a design solution. Future projects will be based on the design solution recommendation. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended

accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 2 PROJECTS Total Construction Cost for Priority 2 Projects: \$3,580,275

Necessary - Not Yet Critical Two to Four Years

Project Index #: 2087SEC2
CELL DOORS, LOCKS AND CONTROLS REPLACEMENT Construction Cost \$421,875

The Housing Unit was constructed in 2000. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

Project Index #: 2087PLM2
CELL WATER CONTROL SYSTEMS REPLACEMENT Construction Cost \$504,000

This building is equipped with cell water control systems that are outdated and should be scheduled for replacement. Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

COMPUTER WATER CONTROL SYSTEM REPLACEMENT

Project Index #: 2087PLM4
Construction Cost \$50,000

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

Project Index #: 2087ELE1
ELECTRICAL TRANSFORMER REPLACEMENT Construction Cost \$5,000

The 50 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

25-Aug-17 Page 128 of 135

Project Index #: 2087EXT1
EXTERIOR FINISHES Construction Cost \$445,000

It is important to maintain the finish, weather resistance and appearance of the building. This project would provide for caulking all control joints and penetrations on a cyclical basis. The metal doors and window frames should also be sanded and painted a on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #:

Project Index #:

Construction Cost

Construction Cost

2087HVA2

2087INT3

\$1,400

\$667,500

HVAC EQUIPMENT REPLACEMENT

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends the replacement of all air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

Project Index #: 2087INT1
INTERIOR FINISHES Construction Cost \$445,000

The interior finishes are in fair condition. It is recommended that the interior walls and floors be painted or sealed at least once in the next 2-3 years. Prior to painting or sealing, all surfaces should be repaired and prepped. An epoxybased paint should be utilized in wet areas for durability.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

JANITORS CLOSET REPAIRS

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

LIGHTING UPGRADE Project Index #: 2087ENR1
Construction Cost \$356,000

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

ROOF REPLACEMENT Project Index #: 2087EXT2
Construction Cost \$667,500

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

Project Index #: 2087PLM3
Construction Cost \$15,000

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

25-Aug-17 Page 129 of 135

Project Index #: 2087PLM1
Construction Cost \$2,000

WATER HEATER REPLACEMENT

There are two 18 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that two new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$300,000

Long-Term Needs Four to Ten Years

SHOWER UPGRADE Project Index #: 2087INT2
Construction Cost \$300,000

There are twelve shower stalls in the building that are showing signs of failure and should be scheduled for repair or replacement. This project would provide for twelve stainless steel shower cabinets to be installed to provide shower facilities for the housing units. Removal and disposal of the existing materials is included in the estimate.

BUILDING INFORMATION:

Gross Area (square feet): 44,500

Year Constructed: 2000

Exterior Finish 1: 100 # Tilt-Up Concrete

Exterior Finish 2:

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2:

Construction Type: Tilt-Up Concrete & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$139.09 **Priority Class 1:** \$2,309,333 **Project Construction Cost per Square Foot** \$15,575,000 **Priority Class 2:** \$3,580,275 **Total Facility Replacement Construction Cost** \$350 **Priority Class 3:** \$300,000 Facility Replacement Cost per Square Foot 40% FCNI: **Grand Total:** \$6,189,608

25-Aug-17 Page 130 of 135

HOUSING UNIT #1

SPWD Facility Condition Analysis - 2086

Survey Date: 11/1/2016

HOUSING UNIT #1 BUILDING REPORT

The Housing Unit #1 is situated along the west/ north secured side of High Desert State Prison. The building is constructed of tilt-up concrete walls, concrete floors at lower and upper levels, a concrete slab-on-grade foundation, prefabricated steel frame trusses, metal decking and has a single-ply membrane roof. The building is used to house inmates at the prison.

PRIORITY CLASS 1 PROJECTS

Total Construction Cost for Priority 1 Projects: \$2,309,333

Currently Critical Immediate to Two Years

ADA SHOWER UPGRADE

Project Index #: 2086ADA1 Construction Cost \$75,000

Project Index #:

Project Index #:

Construction Cost \$1,438,241

Construction Cost

2086SEC2

2086ELE1

\$222,500

This project would provide for three ADA compliant stainless steel shower cabinets to be installed to provide shower facilities for the disabled. Included in this estimate is the installation of three stainless steel ADA compliant shower cabinet units complete with accessible plumbing fixtures, seats, etc. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

ADA TABLE UPGRADE Project Index #: 2086ADA4
Construction Cost \$3,000

Per the United States Access Board and ICC ANSI-A117.1-2009, at least 5 percent of the seating spaces shall be, if fixed seating is provided, a loose seat or open space for a wheelchair. This project would provide funding to remove 3 of the fixed seats, which will allow access for wheel chairs.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

COMMUNICATIONS SYSTEM UPGRADE

This building is equipped with a communications system that at the time of the survey was not working properly. The communications system provides paging, phone communications and communication to inmates. The communications system is an integral component of the notification and safety procedures for the inmates and staff. The system is problematic and replacement parts are no longer available. It is recommended that the communications system be upgraded.

DOOR CONTROL SYSTEM REPLACEMENT

The control panel/inmate movement and control system in the housing unit is not working properly. The cell door indicator lights on the control panel are falsely representing the actual status of the cell doors. The officer sometimes cannot tell if the cell door is open or closed. This project would replace the existing secured door control system with a programmable logic controlled system using touch screens for actuation and door status. This project would replace the existing door control system and the outdated wiring. Removal and disposal of the existing equipment is included in this estimate

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

25-Aug-17 Page 131 of 135

DUAL LEVEL DRINKING FOUNTAIN INSTALLATION Project Index #: 2086ADA2 Construction Cost \$4,000

This building contains a water fountain that is not ADA compliant. The 2012 IBC Section 1109.5 states where drinking fountains are provided on an exterior site, on a floor or within a secured area, no fewer than two drinking fountains shall be provided. One shall comply with the requirements for people who use a wheelchair and one shall comply with the requirements for standing persons. This project would provide funding for the purchase and installation of two drinking fountains to meet the ADA requirements.

Project Index #:

Construction Cost

Construction Cost

Construction Cost

Construction Cost

Construction Cost

Construction Cost

2086SFT2

2086HVA1

2086HVA3

2086SFT3

2086SFT4

2086SFT6

\$10,000

\$9,000

\$356,000

\$10,000

\$4,000

\$74,592

ELECTRICAL OUTLET & CABLE UPGRADES

At the time of the survey the building had residential and commercial cover plates over the electrical outlets and coaxial wires. This poses a safety hazard allowing inmates to remove them and use them as weapons. This could be a safety hazard to inmates and guards. This project would provide for the installation of new security grade cover plates throughout the entire housing unit.

EVAPORATIVE COOLER REPLACEMENT

There is a guard stationed on the roof to look out onto the yard. They have one overhead swamp cooler to keep them cool in the warmer months. At the time of the survey the swamp cooler was not working. It is severely scaled and has reached the end of its useful and expected life. This project would provide for a new evaporative cooler to be installed including all required connections to utilities. The estimate includes removal and disposal of the old cooler.

EXHAUST FAN INSTALLATION

The mechanical room within the housing unit has plumbing fixtures and drains. Due to moisture in this room, the humidity is very high and there is an increase probability for indoor air quality concern. This project would provide for the purchase and installation of a new commercial grade exhaust fan and the assemblies and will include the connections to utilities.

FIRE ALARM SYSTEM REPLACEMENT

This building is equipped with an outdated automatic fire detection and alarm system. Parts cannot be obtained and due to this, the system no longer complies with current requirements. It is recommended that the system be upgraded to current requirements to ensure the safety of the occupants. Also, according to NAC 477.917 If the value of individual or cumulative additions, alterations and repairs to a building or structure in any 12-month period exceeds 50 percent of the value of the building or structure at the commencement of the 12-month period, the building or structure must conform to the requirements for a new building or structure. When completed, the new system will provide visual, as well as audible notification, in accordance with the 2012 IBC Chapter 9, Section 907 and the State Fire Marshal's requirements.

FIRE SUPPRESSION OBSTRUCTION INVESTIGATION

This building has an automatic fire suppression system. Per NFPA 25 Obstruction Investigation and Prevention an inspection of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of inspecting for the presence of foreign organic and inorganic material. It is recommended that this project be completed within the next year and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

ROOF HATCH REPLACEMENT

The roof hatches are original to the building and have reached the end of their useful life. The compression spring operators do not function properly, the latches and handles are worn and the seals and flashing have deteriorated. A faulty roof hatch is a safety hazard to anyone accessing the roof. This project would provide for the removal and the disposal of the existing roof hatches and for the purchase and installation of new roof hatches.

25-Aug-17 Page 132 of 135

SPRINKLER HEAD REPLACEMENT

Project Index #: 2086SFT5 Construction Cost \$40,000

The existing fire suppression sprinkler heads are an older style and are susceptible to damage and misuse by the inmates Inmates have tied strings to the sprinkler heads and have broken them in the past. This project recommends that all of the fire sprinkler heads in all cells be removed and replaced with a new state of the art tamper-resistant sprinkler heads.

TDD INSTALLATION

Project Index #: 2086ADA3 Construction Cost \$60,000

The Housing Unit is not equipped with a TDD. In order to comply with ADA requirements it is recommended to install a TDD system in the Housing Unit. The 2012 IBC, ICC/ANSI A117.1 - 2009, NRS 338.180 and the most current version of the ADA Standards for Accessible Design were used as references for this project.

WALKWAY RAILING

Project Index #: 2086STR1

Construction Cost \$3,000

The perimeter roof walkway guardrail is failing. The railing is loose or not attached and is posing a potential safety problem. This project recommends an assessment be performed by a Structural Engineer to determine the cause and provide a design solution. Future projects will be based on the design solution recommendation. This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

PRIORITY CLASS 2 PROJECTS

Total Construction Cost for Priority 2 Projects: \$3,580,275

Project Index #:

Construction Cost

Necessary - Not Yet Critical Two to Four Years

CELL DOORS, LOCKS AND CONTROLS REPLACEMENT

The Housing Unit was constructed in 2000. The cell doors, locks and controls are original to the building and have been problematic due to inmate abuse and age. This project would provide for installing new cell doors, locks and controls. Removal and disposal of the existing equipment is included in this estimate.

CELL WATER CONTROL SYSTEMS REPLACEMENT

Project Index #: 2086PLM3 Construction Cost \$504,000

2086SEC1

\$421,875

This building is equipped with cell water control systems that are outdated and should be scheduled for replacement. Problems exist with the current water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. It is recommended to replace the water control systems. This project includes the replacement of the water controllers, piping, valves, access panels and all connections to the existing utilities.

COMPUTER WATER CONTROL SYSTEM REPLACEMENT

Project Index #: 2086PLM4 Construction Cost \$50,000

This building is equipped with a computer water control system that is outdated and should be scheduled for replacement. Problems exist with the current computer water control system. It is increasingly difficult to find software updates and experienced repairmen to service the equipment. This project recommends the installation of a new computer water control system for the building. This system will monitor and control the water for all fixtures throughout the building. New electronic sensors will be installed on each water control system.

ELECTRICAL TRANSFORMER REPLACEMENT

Project Index #: 2086ELE2 Construction Cost \$5,000

The 50 kVA electrical transformer that provides services to the building was damaged at the time of inspection and does not function properly. This project recommends replacing the electrical transformer.

25-Aug-17 Page 133 of 135

EXTERIOR FINISHES

Project Index #: 2086EXT2
Construction Cost \$445,000

It is important to maintain the finish, weather resistance and appearance of the building. The caulked control joints in the CMU of the exterior surface of this building are uniformly deteriorated and should be removed and the joints recaulked. The metal doors and window frames should be sanded and painted on a cyclical basis.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

Project Index #:

Project Index #:

Construction Cost

Construction Cost

2086HVA2

2086INT3

\$1,400

\$667,500

HVAC EQUIPMENT REPLACEMENT

The air handlers, fan coils and related equipment are original to the building, dating back to 2000. The equipment has consistent problems and has reached its expected life span. This project recommends the replacement of all air handlers, fan coils, ventilation equipment and exhaust fans. It is recommended that this project be implemented in the next 2-3 years to avoid possible failure and emergency funding for replacement.

Project Index #: 2086INT1
INTERIOR FINISHES Construction Cost \$445,000

This project would provide funding to maintain the interior of the building. Included in the cost is painting the walls and ceilings, sealing the exposed masonry, repairing cracks in the masonry and replacing grout and caulk as needed. An epoxy-based paint should be utilized in wet areas for durability. It is recommended that the interior of the building be painted, sealed and repaired in the next 2-3 years and that this project be scheduled on a cyclical basis to maintain the integrity of the structure.

This project or a portion thereof was previously recommended in the FCA report dated 03/17/2005. It has been amended accordingly to reflect conditions observed during the most recent survey date of 11/01/2016.

JANITORS CLOSET REPAIRS

The mop sink in the Janitors Closet is mounted adjacent to CMU and is showing signs of water damage. This project would provide FRP to be installed on the walls adjacent to the mop sink. The FRP shall extend two feet beyond the edge of the sink and a minimum of 54" above the floor finish.

Project Index #: 2086ENR1
LIGHTING UPGRADE Construction Cost \$356,000

The existing lighting fixtures are the older fluorescent type, and are not energy efficient. This project will upgrade fixtures to higher efficiency units with a longer life cycle. 5,000K LED lamps, without the ballasts, are suggested, and new tombstones (if needed). Occupancy sensors will be installed in low occupancy areas for additional savings. Any electrical wiring upgrades are not included in this estimate.

ROOF REPLACEMENT Project Index #: 2086EXT3
Construction Cost \$667,500

The roof on this building was in fair condition at the time of the survey. The statewide roofing program has set the useful life of an average roof at 20 years. The roof warranty expires at the end of the same time frame. The temperature fluctuations throughout the year, consistent wind which blows sand and dirt on to the roof membrane, and constant exposure to the sun are contributing factors to wear and deterioration. The current roofing system was installed in 2000. It is recommended that this building be re-roofed in the next 2-3 years to be consistent with the roofing program and the end of the warranty period.

SHOWER WATER CONTROL SYSTEMS REPLACEMENT

Project Index #: 2086PLM2
Construction Cost \$15,000

This building is equipped with shower water control systems that are outdated and should be scheduled for replacement. Problems exist with the current shower water control systems. It is increasingly difficult to find replacement parts and experienced repairmen to service the equipment. This project includes the replacement of the shower water controllers, piping, valves, access panels, shower heads and all connections to the existing utilities.

25-Aug-17 Page 134 of 135

Project Index #: 2086PLM1 Construction Cost \$2,000

WATER HEATER REPLACEMENT

There are two 18 gallon electric water heaters in the building. The average life span of a water heater is eight to ten years. With the passage of time and constant use, these units are showing signs of wear and should be scheduled for replacement in the next 2-3 years. It is recommended that two new electric water heaters be installed. Removal and disposal of the existing equipment is included in this estimate.

PRIORITY CLASS 3 PROJECTS

Total Construction Cost for Priority 3 Projects: \$300,000

Long-Term Needs Four to Ten Years

Project Index #: 2086INT2 Construction Cost \$300,000

There are twelve shower stalls in the building that are showing signs of failure and should be scheduled for repair or replacement. This project would provide for twelve stainless steel shower cabinets to be installed to provide shower facilities for the housing units. Removal and disposal of the existing materials is included in the estimate.

BUILDING INFORMATION:

SHOWER UPGRADE

Gross Area (square feet): 44,500

Year Constructed: 2000

Exterior Finish 1: 100 # Tilt-Up Concrete

Exterior Finish 2:

Number of Levels (Floors): 2 Basement? No

IBC Occupancy Type 1: 100 # I-3

IBC Occupancy Type 2: #

Construction Type: Tilt-Up Concrete & Steel

IBC Construction Type: II-A
Percent Fire Suppressed: 100 #

PROJECT CONSTRUCTION COST TOTALS SUMMARY:

\$139.09 **Priority Class 1:** \$2,309,333 **Project Construction Cost per Square Foot** \$15,575,000 **Priority Class 2: Total Facility Replacement Construction Cost** \$3,580,275 \$350 **Priority Class 3:** \$300,000 Facility Replacement Cost per Square Foot 40% FCNI: **Grand Total:** \$6,189,608

NOTES:

The deficiencies outlined in this report were noted from a visual survey. The costs do not represent the cost of a complete facility renovation or maintenance needs. Recommended projects do not include telecommunications, furniture, window treatment, space change, program issues, relocation, swing space, or costs that could not be identified or determined from the survey and available building information.

Individual projects and costs noted herein may be impacted by new construction materials or methods, agency projects, and pending or proposed Capital Improvement Projects (CIP).

This report was created under the authority found in NRS 341.128 by the State Public Works Division and should be utilized as a planning level document.

REPORT DEVELOPMENT:

State Public Works Division 515 E. Musser Street, Suite 102 (775) 684-4141 voice Facilities Condition Analysis Carson City, Nevada 89701-4263 (775) 684-4142 facsimile

25-Aug-17 Page 135 of 135



Tower #4 - Building #2177 Description: Exterior finishes.



Housing Unit #7 – Building #2173
Description: Cell water controls system replacement needed.



Housing Unit #7 - Building #2173
Description: Door controls system replacement needed.



Housing Unit #8 – Building #2172 Description: Exterior finishes.



Housing Unit #8 - Building #2172 Description: Evaporative cooler replacement needed.



Security/ Administration - Building #2099 Description: Water heater replacement needed.



Armory/ Emergency Response - Building #2098 Description: Exterior finishes.



Maintenance/ Central Plant - Building #2097 Description: Boiler burner replacement needed.



Maintenance/ Central Plant - Building #2097 Description: HVAC replacement needed.



Sallyport - Building #2096 Description: Egress door upgrade needed.



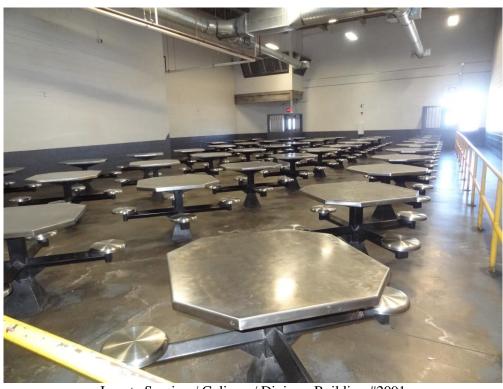
Administration - Building #2094 Description: Roof replacement needed.



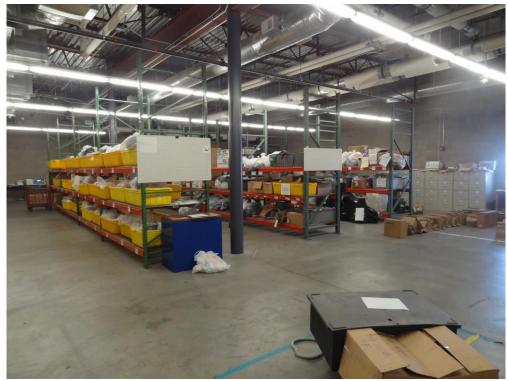
Visitation - Building #2093
Description: Water treatment system replacement needed.



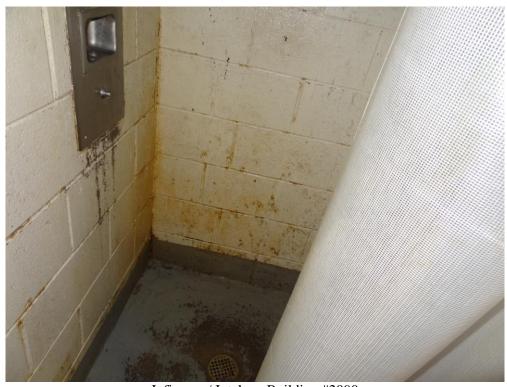
Inmate Services/ Culinary/ Dining - Building #2091 Description: Hot water re-use room remodel needed.



Inmate Services/ Culinary/ Dining - Building #2091 Description: ADA table upgrade needed.



Infirmary/ Intake – Building #2090
Description: Shelves missing proper anchoring.



Infirmary/ Intake – Building #2090 Description: ADA shower upgrade needed.