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Academic and Research Building



University of Nevada, Reno
William N. Pennington Engineering Building



Nevada Army National Guard
Speedway Readiness Center



Nevada Department of Motor Vehicles
South Reno DMV



STATE PUBLIC WORKS BOARD

Recommended Capital Improvement Program

2021 - 2023

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PUBLIC WORKS DIVISION

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January 15, 2021

Members of the Senate and Assembly
81st Session
Nevada State Legislature
Capitol Complex, Carson City, Nevada

In accordance with NRS 341.083, I am pleased to present the final version of the Governor's Recommended Capital Improvement Program (Recommended 2021 CIP) for your consideration. The Recommended 2021 CIP is the culmination of the tireless efforts of State agencies, the Public Works Board and its staff. These efforts include the analysis of agency requests, agency presentations and Board hearings, development of priorities, and the incorporation of recommendations from the Executive Branch.

The Recommended 2021 CIP is comprised of 'critical' projects, which address the need for proper up-keep of State-owned buildings and the ever-present concern over inopportune building system failures. These projects are recommended because their implementation will ensure that building systems are maintained, and State government can carry out its programs and functions. Other projects incorporated in this recommendation include the construction of certain 2019 CIP planning projects.

Projects are organized into groups with the following letter identifiers: "C" for Major Construction projects, "P" for Planning projects, "M" for Maintenance projects, "E" for Economic Development projects and "S" for Statewide projects.

The State-funded portion of the Recommended 2021 CIP equals approximately seventy-two percent of the total agency requests. "State Funding" as used in the Recommended 2021 CIP primarily includes general obligation bonds. "Other Funding" consists of Highway, Federal, and/or agency funding.

The total request for all project categories is \$491,373,321 (\$356,699,068 in "State Funding" and \$134,674,252 in "Other Funding").

Respectfully submitted,

Ward Patrick, P.E.
Administrator

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**2021 Capital Improvement Program
Funding Requests by Department
Governor Recommendations**

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Department	Project Count	Total Cost	Other Funding	State Funding
Nevada Department of Administration	29	157,290,484	33,679,953	123,610,531
Nevada Department of Conservation & Natural Resources	5	9,733,677	1,813,032	7,920,645
Nevada Department of Corrections	17	84,726,916	0	84,726,916
Nevada Department of Health and Human Services	1	28,153,124	0	28,153,124
Nevada Department of Motor Vehicles	1	6,331,883	6,331,883	0
Nevada Department of Public Safety	1	640,384	211,327	429,057
Nevada Department of Tourism and Cultural Affairs	3	2,293,116	0	2,293,116
Nevada Department of Veterans Services	4	9,121,381	6,403,247	2,718,134
Nevada Department of Wildlife	4	13,953,303	7,098,470	6,854,833
Nevada Office of the Military	22	82,603,271	40,691,996	41,911,275
Nevada System of Higher Education	4	96,525,781	38,444,345	58,081,436
Total Projects:	91	491,373,321	134,674,252	356,699,068

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**2021 Capital Improvement Program
Summary List of Projects
Governor Recommendations**

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High Priority and Critical for 2021

Construction

CPMES Rank	Dept.	Div.	Agency	Index Number	Location	Project Name	PM	Other Funding	State Funding	Accum. State Funding	Project Description
C01	CNR	Forestry	Forestry	21008	Elko	Heavy Equipment Repair Shop and Shop Renovation (Northern Region 2 Headquarters)	ALB	0	5,543,284	5,543,284	This project is the continuation of the swept project 19-P08, and will design and construct a 7,200 sf Heavy Equipment Repair Shop and renovation of the 4,600 sf Shop.
C02	Admin	Fleet Services	Fleet Services	7637	Las Vegas	Southern Nevada Fleet Services Maintenance Building (Grant Sawyer Site)	KEN	9,305,815	0	5,543,284	This project is the continuation of 17-P04, construction of a 6,150 sf Fleet Services Division maintenance facility.
C03	Military	NArmyNG	NArmyNG	21142	Stead	Washoe County Training Center Addition (Nevada Army National Guard)	JBC	19,270,080	25,300,695	30,843,979	Design through construction for a 55,000 sf addition to the Washoe County Training Center.
C04	Wildlife	Wildlife	Wildlife	21064	Cave Lake	Cave Creek Dam Rehabilitation (Cave Lake State Park)	BJW	6,898,470	2,614,544	33,458,522	Perform structural and functional upgrades at the Cave Creek Dam.
C05	NSHE	UNLV	UNLV	21208	Las Vegas	Engineering Academic and Research Building (UNLV)	WJL	36,844,345	36,844,345	70,302,867	This project is the continuation of the swept project 19-C30, and will design and construct a 52,000 sf engineering building.
C06	Admin	SPWD	B&G	19016	Carson City	Hobart Reservoir Dam Rehabilitation (Marlette Lake Water System)	BJW	10,021,355	3,912,924	74,215,791	This project is a continuation of 19-S04 and will perform structural and functional upgrades of the Hobart Reservoir Dam.
C07	Military	NArmyNG	NArmyNG	21206	Stead	Construct Organizational Parking (Washoe County Armory)	MJM	1,008,385	432,627	74,648,417	Construct a gravel parking area for the Washoe County Armory.
C08	Military	NArmyNG	NArmyNG	21148	Stead	Purchase of Navy Operational Support Center	JBC	686,035	3,795,470	78,443,888	Purchase the Navy Operational Support Center in Reno (Stead) Nevada and construct minor interior renovations.
C09	CNR	Parks	Parks	21275	Valley of Fire	Comfort Stations Replacement (Valley of Fire State Park)	WJL	379,718	436,579	78,880,467	This project is a continuation of the swept project 19-M50 and will design and construct replacement of 6 Comfort Stations within the Valley of Fire State Park.
C10	Military	NArmyNG	NArmyNG	21824	Stead	Aircraft Storage Hangar and Sitework (Harry Reid Training Center)	JBC	3,650,000	2,843,505	81,723,973	This project will complete the design and construct a 16,355 sf aircraft storage hangar, including sitework, for the Army Aviation Support Facility (AASF) at the Harry Reid Training Center.

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High Priority and Critical for 2021

Construction

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C11	NDVS	VetCem	SNVMC	21823	Boulder City	Cemetery Expansion Supplemental Funding (Southern Nevada Veterans Memorial Cemetery)	ALB	3,541,019	607,271	82,331,244	Development of in-ground and columbarium wall cremation interments.
C12	NSHE	GBC	GBC	21155	Elko	Welding Lab Addition and Renovation (Great Basin College)	ALB	600,000	5,740,320	88,071,564	This project is the continuation of the swept project 19-P70 and will complete design and construction of a 4,500 sf Welding Lab addition and renovation to the 4,830 sf Welding Lab.
C13	NSHE	WNC	WNC	21158	Carson City	Renovation of Marlette Lecture Hall (Western Nevada College)	ALB	0	1,496,771	89,568,335	This project is the continuation of the swept project 19-P71 and will design from design development and construct a renovation of the 1,950 sf Marlette Lecture Hall.
Construction Totals					Total Projects:	13	Total Funding	92,205,223	89,568,335		

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Planning

CPMES Rank	Dept.	Div.	Agency	Index Number	Location	Project Name	PM	Other Funding	State Funding	Accum. State Funding	Project Description
P01	Admin	SPWD	B&G	19021c	Las Vegas	Advance Planning: Grant Sawyer Office Building Remodel	WJL	0	4,943,728	94,512,063	This project is a continuation of the swept project 19-P01 and will complete design from design development through construction documents of the approximately 231,944 sf State Government Office Building.
P02	Admin	SPWD	B&G	21252	Carson City	Advance Planning: Seismic Retrofit and Renovation (Heroes Memorial & Annex)	ALB	0	1,544,163	96,056,226	This project is the continuation of 19-P02, design development through construction of the 21,000 sf seismic retrofit and renovation of the Heroes Memorial Building and Annex.
P03	NDVS	VetHome	SNSVH	21266	Boulder City	Advance Planning: Remodel & Addition (Southern Nevada State Veterans Home)	WJL	2,593,840	1,635,877	97,692,103	Provide programming through construction documents for the SNSVH remodel of shared rooms to individual rooms and upgrade various amenities.
P04	PubSafe	PubSafe	PubSafe	7241	Carson City	Advance Planning: Headquarters Building (Department of Public Safety)	JBC	211,327	429,057	98,121,160	Programming, conceptual design, traffic and utility studies for a 172,000 square foot campus at the old Carson City Armory site.
P05	Military	NArmyNG	NArmyNG	21144	North Las Vegas	Advance Planning: General Instruction Building (Floyd Edsall Training Center)	KEN	4,049,000	1,404,880	99,526,040	Design through construction documents for a General Instruction Building.
P06	DMV	DMV	DMV	19262	Las Vegas	Advance Planning: Department of Motor Vehicles Silverado Ranch Facility	JSP	6,331,883	0	99,526,040	Design through construction documents of a full service Department of Motor Vehicles facility with commercial driver's license services.
Planning Totals					Total Projects:	6	Total Funding	13,186,050	9,957,706		

**2021 Capital Improvement Program
Summary List of Projects
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High Priority and Critical for 2021

Maintenance

CPMES Rank	Dept.	Div.	Agency	Index Number	Location	Project Name	PM	Other Funding	State Funding	Accum. State Funding	Project Description
M01	Admin	SPWD	B&G	19014	Carson City	Central Plant Renovation (Attorney General's Office Building)	TJD	0	1,951,601	101,477,641	This project is a continuation of the swept project 19-M30 and will construct replacement of the existing chiller, cooling tower, boilers, pumps, piping, and controls at the Attorney General's Office Building in Carson City.
M02	DHHS	DHHS	DHHS	21278	Statewide	Deferred Maintenance (Department of Health and Human Services)	BJW	0	28,153,124	129,630,766	This project will address Department of Health and Human Services (DHHS) deferred maintenance at locations statewide.
M03	NDOC	Correctional	NNCC	21062	Carson City	Replace Domestic Water and Sanitary Sewer (Northern Nevada Correctional Center)	BJW	0	13,826,543	143,457,309	Continuation of SPWD Project 19-P04 to replace domestic water and sanitary sewers.
M04	NDOC	Correctional	ESP	21068	Ely	Replace Domestic and Heating Hot Water Piping (Ely State Prison)	BBM	0	10,104,817	153,562,125	This project is the continuation of 19-M11 and will replace the domestic and heating hot water piping in housing units 2-8.
M05	Military	NArmyNG	NArmyNG	21130	Reno	Electrical Circuiting, Devices & Lighting Replacement (Plumb Lane Armory)	JGA	692,676	302,071	153,864,197	Replace electrical feeders, branch circuits, electrical devices, LED lighting and lighting controls in three buildings at the Plumb Lane Armory.
M06	NSHE	NSHE	NSHE	21270	Var. Locations	Deferred Maintenance (HECC/SHECC)	BJW	1,000,000	14,000,000	167,864,197	This project will provide for HECC/SHECC-funded deferred maintenance needs including ADA and life safety.
M07	NDOC	Correctional	ESP	21276	Ely	Underground Piping Replacement (Ely State Prison)	BBM	0	8,399,741	176,263,938	Replacement of the underground heating piping at the Ely State Prison. Continuation of the project designed in 19-M09.
M08	Wildlife	Wildlife	Wildlife	19300	Var. Locations	Construct Water Wells and Water Systems (Various Fish Hatchery Sites)	BJW	0	2,642,494	178,906,432	This project is the continuation of the swept project 19-M14 and will construct water wells and water systems at the Gallagher Fish Hatchery and Spring Creek Rearing Station.
M09	NDOC	Correctional	LCC	19276	Lovelock	Switchgear Renovation and Electrical Testing (Lovelock Correctional Center)	JGA	0	1,546,587	180,453,020	Perform electrical equipment testing, adjustment, and evaluation of electrical systems at the Lovelock Correctional Center.

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M10	NDOC	Correctional	SDCC	7180	Indian Springs	Plumbing Fixture Water Control Renovations (Housing Units 1 through 4 at Southern Desert Correctional Center)	TJD	0	3,226,088	183,679,108	This project is a continuation of the swept project 17-M66 and will design and construct replacement of existing piping, valves, and water saving control system at the Southern Desert Correctional Center.
M11	Admin	SPWD	B&G	21018	Carson City	Uninterruptable Power Supply and Temperature Control System Upgrade (Bryan Building)	BJB	0	1,645,621	185,324,729	Replace temperature control system and UPS at the Bryan Building in Carson City.
M12	Admin	SPWD	B&G	21023	Carson City	Elevator Modernization (EICON Building)	ALB	0	751,789	186,076,518	Modernization of the elevator in the EICON building in Carson City.
M13	Admin	SPWD	B&G	21028	Las Vegas	Terminal Unit Replacement (Department of Motor Vehicles, Flamingo)	BBM	1,014,828	0	186,076,518	The project will renovate the air distribution system for the Flamingo DMV.
M14	Admin	EITS	EITS	21268	Carson City	Data Center Facility Site Upgrades (Enterprise IT Services)	BJW	325,633	0	186,076,518	Remove and replace pedestrian ramp, two pedestrian stairs, access gate and dock lift at the EITS Data Center.
M15	Admin	SPWD	B&G	19017	Carson City	Diversion Dam Controls Upgrade (Marlette Lake Water System)	BJW	0	815,268	186,891,786	Upgrade controls, install metering, install catwalk and chain link fence at Diversion Dam.
M16	NDOC	Correctional	NNCC	21066	Carson City	Electrical Distribution Upgrade (Northern Nevada Correctional Center)	JGA	0	19,669,185	206,560,971	This project is a continuation of 19-P06, construction of power distribution system at the Northern Nevada Correctional Center.
M17	Admin	SPWD	B&G	21030	Carson City	Replace Driveway Snow Melt System (Supreme Court Building)	BJB	0	413,835	206,974,806	Replace the existing electrical-based driveway snow melt system with a hot water-based system at the Supreme Court Building in Carson City.
M18	Military	NArmyNG	NArmyNG	21139	Las Vegas	Construct Organizational Parking Addition (Las Vegas Readiness Center)	MJM	1,833,961	712,429	207,687,234	This is a continuation of project 20-A021 and will construct additional organizational parking at the Las Vegas Readiness Center on Silverado Ranch Boulevard.
M19	Military	NArmyNG	NArmyNG	7608	Carlin	HVAC Systems Renovation (Carlin Readiness Center)	TJD	1,441,982	757,502	208,444,736	Replace existing water source heat pumps, package rooftop units, piping, ductwork, and related controls at the Carlin Readiness Center.

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M20	Wildlife	Wildlife	Wildlife	19260c	Elko	HVAC System Renovation (Elko Office)	TJD	200,000	1,005,764	209,450,501	Replace boilers, pumps, piping, fan coil units, ductwork, and temperature control systems at the Department of Wildlife Office Building in Elko.
M21	Admin	SPWD	B&G	21037	Carson City	HVAC System Replacement (State Mail Services)	BJB	0	467,930	209,918,430	Replace rooftop units serving the Mail Services Building in Carson City.
M23	Admin	SPWD	B&G	21254	Carson City	HVAC Renovation (Department of Motor Vehicles, Carson City)	BJB	5,321,115	0	209,918,430	This project is the continuation 19-P05 and will replace hot and chilled water central plant, hot and chilled water distribution piping, air handling units, terminal units, and computer room cooling units serving all buildings at the DMV in Carson City.
M24	Military	NArmyNG	NArmyNG	21131	Stead	Restroom and Shower Renovation (Washoe County Armory)	MJM	555,633	642,290	210,560,721	Renovate the restrooms and showers at the Washoe County Armory to include the replacement of all fixtures and finishes.
M25	Military	NArmyNG	NArmyNG	21128	North Las Vegas	Remodel Restroom Facilities (Clark County Armory)	KEN	880,630	1,009,824	211,570,544	Remodel restrooms and showers at the Clark County Armory.
M26	NDVS	VetCem	NNVMC	21277	Fernley	Pavilion Renovation (Northern Nevada Veterans Memorial Cemetery)	ALB	0	297,774	211,868,318	This project is the continuation of the swept project 19-M27 and will design construct renovations of the 1,600 sf Cemetery Pavilion.
M27	Military	NArmyNG	NArmyNG	7611	Carlin	Replace Domestic Water Heaters (Carlin Readiness Center)	TJD	586,085	437,108	212,305,426	Replace the existing domestic hot water heaters in 8 buildings at the Carlin Readiness Center.
M28	NDOC	Correctional	FMWCC	21110	North Las Vegas	Replace Emergency Generator (Florence McClure Women's Correctional Center)	JKF	0	1,080,646	213,386,072	Remove and replace emergency generator and concrete pad at Florence McClure Women's Correctional Center.
M29	Admin	SPWD	B&G	21011	Carson City	Replace Exterior Campus Electrical Service Entrance (Department of Motor Vehicles, Carson City)	JGA	746,665	0	213,386,072	Replace utility transformer & main switchboard at the Carson City Department of Motor Vehicles.

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M30	NDOC	Correctional	NNCC	21096	Carson City	Housing Unit 4 HVAC System Renovation (Northern Nevada Correctional Center)	BJB	0	1,984,173	215,370,245	Replace air handling units, condensing units, ductwork, lighting, ceilings, and associated temperature control system at the Northern Nevada Correctional Center Housing Unit #4 in Carson City.
M31	NDOC	Correctional	FMWCC	21075	North Las Vegas	Water Softener Replacement (Florence McClure Women's Correctional Center)	BBM	0	468,422	215,838,667	This project will replace five water softeners and associated equipment.
M32	NDOC	Correctional	HDSP	7106	Indian Springs	Dishwasher Replacement (High Desert State Prison)	BBM	0	493,712	216,332,379	This project will replace the dishwashers at the High Desert State Prison Culinary Building.
M33	Military	NArmyNG	NArmyNG	7524	North Las Vegas	HVAC System Renovation (Clark County Armory)	BBM	738,072	854,733	217,187,112	This project will replace the HVAC system components and provide additional controls at the Clark County Armory.
M34	CNR	CNR	CNR	19387	Virginia City	Office Building Renovations (Comstock Historic Office)	JBC	0	327,254	217,514,366	Replace failing building materials and systems at Museum/Office lobby gallery, conference/meeting room, and offices.
M35	NDOC	Correctional	WSCC	19291	Carson City	Replace Housing Unit 4 Air Handling Units & Multipurpose Building Chiller (Warm Springs Correctional Center)	BJB	0	3,669,038	221,183,405	Replace existing roof-mounted air handling units and associated temperature control system serving Housing Unit 4. Replace air cooled chiller, pumps, piping and associated equipment at the Multipurpose Building.
M36	NDOC	Correctional	FMWCC	19359	North Las Vegas	Install Sanitary Sewer Macerator (Florence McClure Women's Correctional Center)	BJW	0	1,011,322	222,194,727	Install a prefabricated sanitary sewer macerator manhole upstream of the existing lift station at the FMWCC.
M37	Admin	SPWD	B&G	19274	Las Vegas	Install Surveillance Cameras (Department of Motor Vehicles, North Decatur)	JKF	1,316,090	0	222,194,727	Install interior and exterior surveillance cameras at the North Decatur DMV.
M38	Admin	SPWD	B&G	19046	Stewart	Replace Building 89 Chiller (Stewart Facility)	BJB	0	868,598	223,063,325	Replace chiller, piping, pumps, and the temperature control system at Stewart Facility Building 89 in Carson City.

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CPMES Rank	Dept.	Div.	Agency	Index Number	Location	Project Name	PM	Other Funding	State Funding	Accum. State Funding	Project Description
M39	T&CultAffr	MusHist	RR_Mus	19175	Carson City	HVAC System Renovation (Nevada State Railroad Museum)	TJD	0	1,338,211	224,401,536	Replace unit heaters, furnace, and evaporative cooling units in the Jacobsen Interpretive Center and Restoration Shop at the Railroad Museum in Carson City.
M40	NDVS	VetHome	SNSVH	7334	Boulder City	Temperature Controls Replacement (Southern Nevada State Veterans Home)	BBM	268,388	177,212	224,578,747	This project will replace the temperature control system at the Veterans Home located in Boulder City.
M41	T&CultAffr	MusHist	MusHist	21205	Overton	Historic Pit House and Adobe Pueblos Repair (Lost City Museum)	KEN	0	370,808	224,949,555	Assess and repair the historic pit house and adobe pueblos at the Lost City Museum.
M43	Military	NArmyNG	NArmyNG	21133	Carson City	Domestic Hot Water System and Transformer Replacement (Office of the Adjutant General)	BJB	407,829	472,682	225,422,237	Replace domestic hot water system and electrical transformers at the Office of the Adjutant General building in Carson City.
M44	Admin	EITS	EITS	21269	Carson City	Computer Room Cooling System Upgrade (State Computer Facility)	TJD	2,154,029	0	225,422,237	Replace the existing air conditioning equipment that serves the main server room, computer workshop, and communications equipment room at the Computer Facility in Carson City.
M45	CNR	Parks	Parks	19384	Fort Churchill	Park Facilities Maintenance & ADA Upgrades (Fort Churchill State Park)	MCR	582,827	656,774	226,079,011	This is a continuation of the swept project 19-M53 and will construct upgrades to the park facilities plumbing, electrical, and mechanical systems as well as upgrades for ADA code compliance.
M46	Admin	SPWD	B&G	21043b	Carson City	Exterior Renovation (State Capitol and Annex Building)	ALB	0	4,880,113	230,959,124	This project is the continuation of the swept project 17-M70, design and rehabilitation of the exterior surfaces at the Capitol and Annex buildings.
M47	Military	NArmyNG	NArmyNG	7595	Carlin	Recondition Water Storage Tank (Carlin Readiness Center)	BJW	308,212	286,576	231,245,699	Inspect and recondition the 246,000 gallon water storage tank at the Carlin Readiness Center.
M49	Admin	Purchasing	Purchasing	21024	Las Vegas	Building Renovation (Las Vegas Purchasing Warehouse)	BBM	969,423	0	231,245,699	This project will renovate the purchasing warehouse with a replacement roof and the addition of a fire alarm and fire sprinkler system.

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Maintenance

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M50	CNR	Parks	Parks	7098	Cathedral Gorge	Safety Improvements (Miller Point Overlook)	KEN	850,487	956,755	232,202,454	This project will provide safety rehabilitation of the stairs, foundations, guardrails and bridge, and installation of safety railings at overlook edge and at canyon walkways.
M51	Military	NArmyNG	NArmyNG	21127	Carlin	Upgrade Wastewater System (Carlin Readiness Center)	BJW	750,000	322,196	232,524,650	This is the continuation of project 20-A023 and will perform functional and capacity upgrades to the wastewater system at the Carlin Readiness Center.
M52	T&CultAffr	MusHist	HistSoc	7460	Reno	HVAC System Renovation (Nevada Historical Society Building)	BJB	0	584,098	233,108,748	Replace existing roof-mounted packaged gas-electric units at the Nevada Historical Society Building.
M53	Wildlife	Wildlife	Wildlife	21051	Elko	HVAC Systems Installation (Elko Office Warehouse)	TJD	0	592,031	233,700,779	Install heating and cooling system at the Department of Wildlife Warehouse Building in Elko.
M54	NDOC	Correctional	LCC	21085	Lovelock	Chilled Water Plant Renovation (Lovelock Correctional Center)	TJD	0	2,532,354	236,233,133	Replace water-cooled chilled water plant with air-cooled plant at Lovelock Correctional Center in Lovelock.
M55	NDOC	Transitional	CGTH	19330	Las Vegas	Replace Surveillance System (Casa Grande Transitional Housing)	JKF	0	959,603	237,192,736	This project is the continuation of the swept 19-M24 and will design and construct replacement of the interior and exterior cameras and surveillance system at Casa Grande Transitional Housing.
M56	NDOC	Correctional	HDSP	21256	Indian Springs	Central Plant Renovation (High Desert State Prison)	BBM	0	10,411,861	247,604,597	This project is the continuation of 19-P07 and will replace the chilled and heating equipment in the central plant at the High Desert State Prison.
M57	NDOC	NDOC	NDOC	19373a	Indian Springs	Install Recreation Yard Fencing (Southern Desert Correctional Center and High Desert State Prison)	MML	0	1,830,391	249,434,988	This project is a continuation of the swept project 19-M48 and will design and construct recreation yard cages at the Southern Desert Correctional Center and recreation yard fencing at the High Desert State Prison.
M58	NDOC	Correctional	NNCC	7303	Carson City	Replace Locks and Controls Housing Unit 7 (Northern Nevada Correctional Center)	JGA	0	3,512,433	252,947,421	Replace locks, control panels, distress buttons, and cell doors at Northern Nevada Correctional Center Housing Unit 7.

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Maintenance

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Maintenance Totals					Total Projects: 55		Total Funding 22,944,565		153,421,381		

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Economic Development

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E01	Military	NArmyNG	NArmyNG	7586	North Las Vegas	Loading Dock (North Las Vegas Readiness Center)	KEN	332,105	147,190	253,094,611	Design and construct a bi-level concrete loading dock.
E02	Military	NArmyNG	NArmyNG	7583	Carlin	Replace Overhead Doors, Maintenance Building (Carlin Readiness Center)	MJM	237,208	281,940	253,376,551	Replace the existing overhead doors in the maintenance building with coiling doors.
E03	Military	NArmyNG	NArmyNG	21136	Las Vegas	Upgrade Interior Lighting (Las Vegas Readiness Center)	JKF	666,907	292,190	253,668,741	Upgrade interior lighting, lighting controls and HVAC sequence of operations at Las Vegas Readiness Center.
E04	Military	NArmyNG	NArmyNG	7612a	Carlin	Security Fence Addition (Carlin Readiness Center)	BJW	732,758	666,080	254,334,820	Install perimeter security fencing, gates, and access road along the perimeter of the Carlin Readiness Center.
E05	Military	NArmyNG	NArmyNG	21132	North Las Vegas	Security Fencing (Floyd Edsall Training Center)	KEN	1,113,106	75,961	254,410,781	Design and construct security fencing.
E06	Military	NArmyNG	NArmyNG	19124	North Las Vegas	Interior and Exterior Door Replacement (Clark County Armory)	KEN	624,022	724,161	255,134,942	Remove and replace complete door systems.
E07	Military	NArmyNG	NArmyNG	19130	North Las Vegas	Covered Patio (Clark County Armory)	KEN	127,310	149,165	255,284,107	Design and construct a break area patio cover.
Economic Development Totals					Total Projects: 7		Total Funding 3,833,415		2,336,686		

**2021 Capital Improvement Program
Summary List of Projects
Governor Recommendations**

Friday, January 15, 2021
9:50 AM

High Priority and Critical for 2021

Statewide											Accum. State Funding	Project Description
CPMES Rank	Dept.	Div.	Agency	Index Number	Location	Project Name	PM	Other Funding	State Funding	State Funding	Accum. State Funding	Project Description
S01	Admin	SPWD	SPWD	21501	Statewide	Statewide Roofing Program	AJL	0	5,984,653	261,268,760	Roofing replacement and repairs at various buildings.	
S01w	Admin	SPWD	SPWD	21501w	Las Vegas	Roofing Replacement (Nevada Department of Wildlife Las Vegas Headquarters)	AJL	130,000	586,612	261,855,372	This project is a continuation of the project 21-A003 and will replace the Nevada Department of Wildlife's (NDOW) Headquarters building roof in Las Vegas.	
S02	Admin	SPWD	SPWD	21502	Statewide	Statewide ADA Program	MCR	0	2,593,037	264,448,409	Access as required by Title II of the Americans with Disabilities Act.	
S03	Admin	SPWD	SPWD	21503	Statewide	Statewide Fire and Life Safety	KRS	0	2,138,164	266,586,573	Fire Alarm and Fire Sprinkler Systems installation and upgrades.	
S04	Admin	SPWD	SPWD	21504	Statewide	Statewide Advance Planning Program	BJW	0	2,043,408	268,629,981	Necessary studies to formulate future CIPs.	
S05	Admin	SPWD	SPWD	21505	Statewide	Statewide Paving Program	MJM	0	2,385,478	271,015,459	Design, construct and maintain pavements throughout the state.	
S06	Admin	SPWD	SPWD	21506	Statewide	Statewide Indoor Air Quality - Environmental Program	KRS	100,000	1,293,791	272,309,250	Mitigation of asbestos, lead, mold, water quality, and indoor air quality issues.	
S08	Admin	SPWD	SPWD	21508	Statewide	Statewide Energy Efficiency Program	BJW	0	9,389,819	281,699,068	Energy retrofit projects throughout the state.	
S09	Admin	SPWD	SPWD	21509	Statewide	Statewide Building Official Program	BJW	2,275,000	0	281,699,068	Continue to allow the SPWD to accept fees for projects not authorized in the CIP as required to pay for contracted plan review and inspection services on those projects.	
S11	Admin	SPWD	SPWD	21826	Statewide	Statewide Energy Infrastructure and Economic Development Program	BJW	0	75,000,000	356,699,068	Statewide energy infrastructure improvements and economic development.	
Statewide Totals						Total Projects:	10	Total Funding	2,505,000	101,414,961		
High Priority and Critical for 2021 Totals						Total Projects:	91	Total Funding	134,674,252	356,699,068		
Totals						Total Projects:	91	Total Funding	134,674,252	356,699,068		
								Grand Total		491,373,321		

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2021 Capital Improvement Program
Governor Recommendations

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Construction

High Priority and Critical for 2021

Project No: C01 **Title:** Heavy Equipment Repair Shop and Shop Renovation (Northern Region 2 Headquarters)

Description: This project is the continuation of the swept project 19-P08, and will design and construct a 7,200 sf Heavy Equipment Repair Shop and renovation of the 4,600 sf Shop.

Funding Summary

Department: CNR **Division:** Forestry
Agency: Forestry **Project Mgr:** ALB

State: 5,543,284
Agency: 0
Federal: 0
Other: 0
Total: 5,543,284

Project Group: Storage or Warehousing **Building Area:** 7,200 gsf
Project Type: New **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Elko **Total Inflation:** 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	268,323	297,427	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	16,500	17,372		
Materials Testing Services	86,266	95,623		
Structural Plan Check	3,001	3,159		
Mechanical Plan Check	5,501	5,792		
Electrical Plan Check	4,101	4,317		
Civil Plan Check	2,600	2,738		
ADA Plan Check	3,375	3,554		
Fire Marshal Plan Check	6,918	7,284		
Code Compliance Plan Check	9,153	9,637		
Constructability Plan Check	6,582	6,929		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	221,016	221,016		
3rd Party Commissioning	0	0		
FF&E Design Fee	17,507	19,406		
Subtotal	650,842	694,253		
Construction Costs				
Construction	3,501,325	3,871,985		Construction Cost Detail: 1 Heavy Equipment Shop (7,200 sf@ \$222/sf) 1,598,400 2 Shop Renovation (4,600 sf@ \$208/sf) 956,800 3 Site Development (39,160 sf@ \$12/sf) 469,920 4 Heavy Vehicle Lift 157,903 <hr/> Total 3,183,023 Allowances: 1 Remote Site (10%) 318,302 <hr/> Total 318,302 <hr/> Total 3,501,325
Construction Contingency	525,199	580,798		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	4,320	4,777		
Furnishings and Equipment	350,133	388,111		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	4,380,977	4,845,670		
Miscellaneous				
Advertising	2,254	2,499		
Printing	777	862		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	3,032	3,360		
Total Project Cost	5,034,850	5,543,284		

Project No: C01 **Title:** Heavy Equipment Repair Shop and Shop Renovation (Northern Region 2 Headquarters)

Agency: Nevada Division of Forestry

Location: Elko

Detail Description:

This project will complete design development through construction of a 7,200 square foot Heavy Equipment Repair Shop and the 4,600 square foot renovation of the Shop Building. The buildings are currently being schematically designed under 19-P08. The Heavy Equipment Repair Shop will include space for offices, restrooms, showers and support facilities with a 1,300 square foot storage mezzanine. The building will be located west of the existing shop at the Nevada Division of Forestry compound situated on Nevada Youth Training Center property, which will require a land transfer through State Lands Certification. The renovation of the Shop Building will include safety upgrades (fire suppression system and egress lighting) and convert the building into a storage facility for equipment that is currently stored outdoors and covered with tarps for weather protection.

Project Justification:

The existing building, the NDF Northern Region 2 Shop was constructed 39 years ago, lacks essential fire protection systems and does not comply with State building, fire and life safety codes for use as a mechanical repair shop. Further, the existing shop does not have the minimum ceiling height or structural slab floors to accommodate the height and weight of the larger equipment. These deficiencies force work on heavy equipment including bulldozers, motor graders and large apparatus to be performed outside in the dirt and mud or outsourced at a premium in cost and lost time. This project would provide a facility where mechanical repairs can be performed on all the agency's apparatus and heavy equipment used for rangeland firefighting in an indoor serviceable space. If this project is not approved, repairs on the larger more expensive equipment will continue to be outsourced due to weather and lack of adequate facilities.

Background Information:

This request refunds design through construction of 19-P08 that was deferred in summer 2020. This is the sixth CIP request for this project and was previously requested in 2011, 2013, 2015, 2017 and 2019. The initial request was for a 5,000 square foot facility. New management in the region and staff in the regional shop have identified that additional space is needed in order to accommodate a 50-year structure. The added infrastructure will improve that ability of staff to perform in-house repairs. A Land Description was completed by the civil engineer during the schematic phase of the project, which is necessary for applying for State Lands Certification. The August 2014 Facility Condition Analysis report on the NDF Northern Region 2 Shop (FCA Building No. 0619) noted the need for the Exit Sign and Egress Lighting Upgrade (Project Index No. 0619SFT2) and Fire Suppression System Installation (Project Index No. 0619SFT1) projects, which this project will complete.

Project No: C02 **Title:** Southern Nevada Fleet Services Maintenance Building (Grant Sawyer Site)

Description: This project is the continuation of 17-P04, construction of a 6,150 sf Fleet Services Division maintenance facility.

Funding Summary

Department: Admin **Division:** Fleet Services
Agency: Fleet Services **Project Mgr:** KEN

State: 0
Agency: 9,305,815
Federal: 0
Other: 0
Total: 9,305,815

Project Group: Offices or Dorms **Building Area:** 6,150 gsf
Project Type: New **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	198,952	215,923	1 Building (6,150 sf@ \$475/sf) 2,921,250
Surveys	5,000	5,209	2 Porte Cochere (3,240 sf@ \$95/sf) 307,800
Soils Analysis	5,000	5,209	3 Fixed Equipment 595,000
Materials Testing Services	118,273	128,362	4 Sitework (2.30 ac@ \$14/sf) 1,402,632
Structural Plan Check	0	0	5 Earthwork (2.30 ac@ \$6/sf) 601,128
Mechanical Plan Check	0	0	6 Half Street Improvements 590,000
Electrical Plan Check	0	0	Total 6,417,810
Civil Plan Check	0	0	Total 6,417,810
ADA Plan Check	0	0	
Fire Marshal Plan Check	11,730	12,221	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	253,387	253,387	
3rd Party Commissioning	0	0	
FF&E Design Fee	9,500	10,310	
Subtotal	601,842	630,621	
Construction Costs			
Life Cycle Cost Estimate			
Construction	6,417,810	6,954,859	Typical O&M (\$/sf/year today) = 16.22
Construction Contingency	962,672	1,043,229	Estimated Inflation (%/year) = 2.70%
Green Building Equivalence	0	0	Project Area (sf) = 6,150
Utility/Off-Site Costs	46,457	50,345	Life Cycle (years) = 30
Utility Connection Fees	370,000	401,563	Operation & Maintenance Cost = 4,521,730
Data/Telecom Wiring	0	0	Construction Cost = 9,305,815
Furnishings and Equipment	190,000	206,208	Total Life Cycle Cost = 13,827,545
Roof Maint. Agreement	15,000	15,000	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	8,001,939	8,671,202	
Miscellaneous			
Advertising	2,735	2,968	
Printing	943	1,023	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	3,678	3,991	
Total Project Cost	8,607,458	9,305,815	

Project No: C02**Title:** Southern Nevada Fleet Services Maintenance Building (Grant Sawyer Site)**Agency:** Fleet Services**Location:** Las Vegas

Detail Description:

This project will complete through construction a 6,150 sf fleet support facility. Fleet Services will not close the existing Las Vegas facility.

The Fleet Services Division is an Internal Service fund therefore, project funding will be provided by the Fleet Services Division and built into the division FY24-25 budget request.

Project Justification:

The current Fleet Services facility is based in the southern corridor of Las Vegas, within close proximity to the McCarran Airport providing fleet management support for vehicles based throughout the valley. The addition of this proposed north Las Vegas Valley facility will provide customers residing in the northern corridor of the valley efficient access to a fleet services facility. The division's fleet size and customer base has expanded significantly since 2010 with the majority of growth in Clark County. The addition of a North Valley Facility would provide state agencies better access to services provided by the division, reducing customer travel time, increasing customer productivity and creating efficiencies for the State workforce residing in the northern Las Vegas corridor.

Background Information:

This project is a continuation of 17-P04 Advance Planning and will be built on the grounds of the Grant Sawyer Office Building site in Las Vegas.

Project No: C03 **Title:** Washoe County Training Center Addition (Nevada Army National Guard)

Description: Design through construction for a 55,000 sf addition to the Washoe County Training Center.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** JBC

State: 25,300,695
Agency: 0
Federal: 19,270,080
Other: 0
Total: 44,570,775

Project Group: Armory, Military or Prisons **Building Area:** 55,000 gsf
Project Type: Addition **Months To Construction:** 36
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Stead **Total Inflation:** 16.29%

	2020	2023	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	2,796,024	3,263,063	1 Building Addition (55,000 sf@ \$447/sf) 24,585,000
Surveys	0	0	2 Off-site Utilities 3,718,000
Soils Analysis	0	0	3 Building Alteration 684,500
Materials Testing Services	230,598	269,117	4 Site Development (30,000 sf@ \$14/sf) 420,000
Structural Plan Check	9,702	10,481	Total 29,407,500
Mechanical Plan Check	11,882	12,836	
Electrical Plan Check	9,411	10,167	
Civil Plan Check	8,852	9,563	
ADA Plan Check	6,679	7,215	
Fire Marshal Plan Check	49,663	53,651	Total 29,407,500
Code Compliance Plan Check	60,324	65,168	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	235,260	274,557	
PWD Project Mgmt & Inspection	1,057,473	1,057,473	
3rd Party Commissioning	118,000	137,710	
FF&E Design Fee	0	0	
LEED Design	300,000	350,111	
Subtotal	4,893,868	5,521,112	
Construction Costs			
Construction	29,407,500	34,198,719	
Construction Contingency	2,940,750	3,419,872	
Green Building Equivalence	1,176,300	1,367,949	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	27,500	31,980	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	25,000	25,000	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	33,577,050	39,043,520	
Miscellaneous			
Advertising	3,914	4,568	
Printing	1,350	1,575	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	5,264	6,143	
Total Project Cost	38,476,182	44,570,775	

Project No: C03 **Title:** Washoe County Training Center Addition (Nevada Army National Guard)

Agency: Nevada Army National Guard

Location: Stead

Detail Description:

This project will continue design and construct a 55,000 square foot addition to the existing Washoe County Training Center Building at the Harry Reid Training Center. Construction will include alterations to the existing training center, all utility services, information systems, fire detection and alarm systems, roads, walks, curbs, gutters, storm drainage, parking areas, and site improvements. Facilities will be designed in accordance with Department of Defense's (DoD's) Unified Facilities Code including energy efficiencies, building envelope, and integrated building systems performance as per Assistant Secretary of the Army (Installations, Energy & Environment) Sustainable Design and Development Policy Update December 2013. Access for individuals with disabilities will be provided. Antiterrorism measures in accordance with the DoD Minimum Antiterrorism for building standards will be provided.

This is a 50% federally funded project for eligible costs. The state funds will cover the ineligible costs for project management, inspection, plan checking, advertising, printing, and a portion of the design that cannot be covered by federal funds.

Project Justification:

This project is critical to the Nevada Army National Guard mission at the Washoe County Training Center which does not comply with National Guard (NG) Pamphlet (Pam) 415-12 regarding facilities allowances. The Nevada Army National Guard is currently operating in 37% of the space authorized according to NG Pam 415-12. The current facilities lack the training area, administrative space, supply room space, arms vault, kitchen space, toilets/showers, physical fitness space, locker room space, privately owned vehicle parking, military vehicle parking, and unheated storage space that are critical to the Nevada Army National Guard mission.

Nevada Army National Guard units currently lack adequate on-site storage for equipment storage contributing to higher levels of loss and theft. Overcrowding within units will continue to place more wear and tear on the building increasing maintenance cost and shortening the life expectancy of the building. The shortage of administration space will continue to challenge leadership in finding appropriate office space to conduct individual counseling. The lack of organizational parking will force units to continue parking vehicles in violation of Antiterrorism Force Protection standards and not properly separated from privately operated vehicle (POV) parking. Soldiers will continue to park their POVs outside of designated parking areas and out on the street creating potentially unsafe pedestrian/vehicle situations. The lack of space adversely affects retention of Soldiers due to working in confined areas and overcrowded classrooms. Finally units will continue to store unit equipment and supplies in connex boxes where extreme temperatures shorten the life cycle of the equipment and lack the security of interior alarmed storage facility.

Background Information:

The Washoe County Training Center was built in 1997 and serves 55 Authorized Full-time Employees and 646 Guard/Reserve. Hours of Operation are: Administration 5 days/week, with 2-day training assembly 2-3 times/month. Reservists 1 weekend/month.

Project No: C04 **Title:** Cave Creek Dam Rehabilitation (Cave Lake State Park)

Description: Perform structural and functional upgrades at the Cave Creek Dam.

Funding Summary

Department: Wildlife **Division:** Wildlife
Agency: Wildlife **Project Mgr:** BJW

State: 2,614,544
Agency: 0
Federal: 6,898,470
Other: 0
Total: 9,513,014

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 4.10%
Location: Cave Lake **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	811,821	881,073	1 Clearing & Grubbing (2.55 ac@ \$60,000/ac) 153,000
Surveys	0	0	2 Dewatering System Plan 9,000
Soils Analysis	0	0	3 Dewatering System Installation (280 lf@ \$240/lf) 67,200
Materials Testing Services	445,764	483,790	4 Spillway Excavation & Grading (1,400 cy@ \$100/cy) 140,000
Structural Plan Check	0	0	5 Emergency Spillway Concrete (79 cy@ \$3,500/cy) 276,500
Mechanical Plan Check	0	0	6 Abandon Existing Outlet 240,000
Electrical Plan Check	0	0	7 Buttress Embankment (18,250 cy@ \$100/cy) 1,825,000
Civil Plan Check	3,256	3,392	8 Cofferdam 116,000
ADA Plan Check	0	0	9 Install Twin 8-Inch Diameter Low-Level Outlet Conduits (1,300 lf@ \$550/lf) 715,000
Fire Marshal Plan Check	0	0	10 Placement of Riprap (48,000 sf@ \$33/sf) 1,584,000
Code Compliance Plan Check	0	0	11 Installation of Monitoring System 43,000
Constructability Plan Check	0	0	12 Access Road Rehabilitation (120,000 sf@ \$4.50/sf) 540,000
CMAR Pre-Construction Services	0	0	Total 5,708,700
PWD Project Mgmt & Inspection	315,054	315,054	Allowances:
3rd Party Commissioning	0	0	1 Remote Site (10%) 570,870
FF&E Design Fee	0	0	Total 570,870
Subtotal	1,575,896	1,683,309	Total 6,279,570
Construction Costs			
Construction	6,279,570	6,805,051	
Construction Contingency	941,936	1,020,758	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	7,221,506	7,825,808	
Miscellaneous			
Advertising	2,670	2,897	
Printing	921	999	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	3,590	3,897	
Total Project Cost	8,800,992	9,513,014	

Project No: C04 **Title:** Cave Creek Dam Rehabilitation (Cave Lake State Park)

Agency: Wildlife

Location: Cave Lake

Detail Description:

The project will provide final design and construct improvements to rehabilitate the Cave Creek Dam. The Nevada Department of Wildlife (NDOW) is currently completing the preliminary design and environmental permitting effort. The CIP project will accommodate the design effort through final construction documents. The scope of work includes replacement of the low-level outlet, construction of a buttress embankment, height increase of the dam, spillway enlargement, spillway armoring and access road rehabilitation.

The project is 75% funded by NDOW, other than project management and inspection fees which are 100% funded by the state.

Project Justification:

Cave Creek Dam is classified as high hazard by Nevada Division of Water Resources (NDWR) and does not meet current dam safety standards, or Nevada codes, as follows:

The low-level outlet pipe is compromised, and dam core materials are piping to and through the outlet pipe. According to NDOW's dam consultant and NDWR, this outlet should not be used.

The dam does not have adequate freeboard to prevent overtopping by waves in flood events.

The spillway is undersized and highly erosive and will fail in design flood event.

Slope stability on the dam face does not meet required minimum factors of safety.

If not approved, dam decommissioning or failure is imminent. In the event of dam decommissioning or failure, an important recreation destination will be lost, potentially negatively impacting Nevada State Parks, the City of Ely, and White Pine County economically. In the event of dam failure, there will be a potential loss of life and possible flooding in Ely.

The dam is currently being drained by an emergency siphon that keeps the water level artificially low. This emergency measure is required to keep the dam safe until improvements can be made, but impacts the public's ability to access the water.

Background Information:

Cave Creek Dam was originally constructed for irrigation purposes by C-B Ranch Company in approximately 1943 by impounding Cave Creek. In 1961, the dam structure was raised with an additional 20 feet of fill, increasing its height to the present 78 feet (downstream embankment toe to dam crest), to enlarge the reservoir capacity. Flood flows during a storm event in 1969 damaged the downslope portion of the emergency spillway, which was subsequently repaired by regrading and replacement with fill. The dam was purchased by NDOW in 1971 for recreational use of Cave Lake Reservoir. Seepage through the dam embankment and local slope instability on the downstream face was known at that time. Mitigation of this seepage through the dam embankment was implemented in 1973 by installing a vertical drainage system in the downstream embankment. A corrugated metal pipe (CMP) overflow outlet system was also constructed through the crest of the dam in 1973 to control the normal maximum lake level.

Cave Creek Dam has shown signs of seepage and sloughing throughout the years. The original outlet pipe also exhibits damage in the form of crushing and possible displacement at various locations. Due to the presence of the above conditions, concern exists regarding the stability of the dam and warranted a comprehensive evaluation of the dam structure, which was completed in 2015.

Project No: C05 **Title:** Engineering Academic and Research Building (UNLV)

Description: This project is the continuation of the swept project 19-C30, and will design and construct a 52,000 sf engineering building.

Funding Summary

Department: NSHE **Division:** UNLV
Agency: UNLV **Project Mgr:** WJL

State: 36,844,345
Agency: 36,844,345
Federal: 0
Other: 0
Total: 73,688,689

Project Group: Labs, Medical or Museums **Building Area:** 52,000 gsf
Project Type: New **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	1,488,368	1,615,332	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail: 1 Building (52,000 sf@ \$775/sf) 40,300,000 2 Site Development (57,000 sf@ \$25/sf) 1,425,000 3 Pedestrian Corridor (55,000 sf@ \$31/sf) 1,705,000 4 Hydronics Site Infrastructure 9,451,530 5 Landscape Improvements (1 ac@ \$14/sf) 609,840 6 Site Underground Analysis 325,420 <hr/> Total 53,816,790 Total 53,816,790	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	358,929	389,547		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	35,500	38,528		
PWD Project Mgmt & Inspection	1,201,155	1,201,155		
3rd Party Commissioning	67,600	73,367		
FF&E Design Fee	269,084	292,038		
Structural Observations	50,000	54,265		
Subtotal	3,470,636	3,664,232		
Construction Costs				
Construction	53,816,790	58,320,233		Life Cycle Cost Estimate Typical O&M (\$/sf/year today) = 34.97 Estimated Inflation (%/year) = 2.70% Project Area (sf) = 52,000 Life Cycle (years) = 30 Operation & Maintenance Cost = 82,428,540 Construction Cost = 73,688,689 Total Life Cycle Cost = 156,117,230
Construction Contingency	5,381,679	5,832,023		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	5,381,679	5,840,758		
Roof Maint. Agreement	25,000	25,000		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	64,605,148	70,018,014		
Miscellaneous				
Advertising	4,414	4,791		
Printing	1,522	1,652		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	5,936	6,443		
Total Project Cost	68,081,721	73,688,689		

Project No: C05 **Title:** Engineering Academic and Research Building (UNLV)

Agency: University of Nevada, Las Vegas

Location: Las Vegas

Detail Description:

This project will provide for the construction of the 52,000 sf College of Engineering Academic and Research Building at the University of Nevada, Las Vegas (UNLV). The building will consist of multi-story program spaces that include labs/support facilities, teaching spaces, student project/collaboration spaces, faculty/graduate spaces and other. The specific site location for the building is between the Thomas Beam Engineering Building and Ham Hall on the UNLV campus. The selected site will feature an outdoor courtyard/plaza with a shade structure for outdoor gatherings.

UNLV is requesting a 50/50 split with the State of Nevada for the construction of the project. The University proposes a 50% match.

Project Justification:

The UNLV College of Engineering has grown significantly over the last 20 years. The program has experienced a significant enrollment increase that more than doubled between the fall of 2000 and the fall of 2017. Given this significant enrollment increase additional academic and research spaces are necessary for the overall support, growth and quality of the program. This facility will provide collaboration areas for student innovation/demonstrations, teaching labs for both interdisciplinary and functional spaces, research wet and dry labs that feature shared, expandable and modular configurations, access to support and services, as well as offices for faculty/researchers and graduate students integral to the labs. The building will feature common areas that will enhance the learning environment and promote an increase in graduation rate and collaboration with industry partners. Due to the growth of the program, there will be a shortage of labs and instructional spaces if this building is not constructed. The project will include the installation of mechanical hydronic site infrastructure to the existing central plant located on campus.

Background Information:

This project is a continuation of 17-P09 and 19-C30 for the construction of the 52,000 sf College of Engineering Academic and Research Building. The last notable dedicated engineering building completed at the UNLV Campus was the 109,500 sf Thomas Beam Engineering Building (TBE). The building was completed in 1988. The planning for the facility began in April 2016 with a visioning session led by the Design Team with the Engineering Steering Committee.

Project No: C06 **Title:** Hobart Reservoir Dam Rehabilitation (Marlette Lake Water System)

Description: This project is a continuation of 19-S04 and will perform structural and functional upgrades of the Hobart Reservoir Dam.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** BJW

State: 3,912,924
Agency: 0
Federal: 10,021,355
Other: 0
Total: 13,934,279

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
A/E Design & Supervision	1,052,087	1,166,205	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail:
Surveys	20,000	21,057	
Soils Analysis	0	0	
Materials Testing Services	224,519	248,872	
Structural Plan Check	4,655	4,901	
Mechanical Plan Check	7,305	7,691	
Electrical Plan Check	6,383	6,720	
Civil Plan Check	3,844	4,047	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	92,194	102,194	
PWD Project Mgmt & Inspection	560,300	560,300	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Environmental Permitting	75,000	83,135	
Subtotal	2,046,287	2,205,122	
Construction Costs			
Construction	9,219,429	10,195,421	1 Dam Reconstruction (13,865 cy@ \$325/cy) 4,506,125
Construction Contingency	1,382,914	1,529,313	2 Import Additional Dam Material (5,525 cy@ \$195/cy) 1,077,375
Green Building Equivalence	0	0	3 Dam Material Removal (10,400 cy@ \$100/cy) 1,040,000
Utility/Off-Site Costs	0	0	4 Spillway & Vehicle Access 520,000
Utility Connection Fees	0	0	5 Dam Material Off Haul & Disposal (2,050 cy@ \$195/cy) 399,750
Data/Telecom Wiring	0	0	6 Lake Sediment Removal (2,000 cy@ \$195/cy) 390,000
Furnishings and Equipment	0	0	7 Outlet Piping & Valve Assembly (2 ea@ \$150,000/ea) 300,000
Roof Maint. Agreement	0	0	8 Instrumentation & Controls 224,629
Local Government Requirements	0	0	9 Historic Mitigation 200,000
Hazardous Material Abatement	0	0	10 Dam Material Dewatering (8,340 cy@ \$20/cy) 166,800
Subtotal	10,602,343	11,724,735	11 Maintenance Building (100 sf@ \$1,200/sf) 120,000
Miscellaneous			
Advertising	2,966	3,288	12 Access Road Improvements (20,000 sf@ \$5/sf) 100,000
Printing	1,023	1,134	13 Monitoring Wells (2 ea@ \$50,000/ea) 100,000
Temporary Facilities	0	0	14 Riprap (750 cy@ \$65/cy) 48,750
Agency Moving Costs	0	0	15 Road Base on Dam (100 cy@ \$260/cy) 26,000
Land Purchase	0	0	
Subtotal	3,989	4,422	Total 9,219,429
Total Project Cost	12,652,620	13,934,279	Total 9,219,429

Project No: C06 **Title:** Hobart Reservoir Dam Rehabilitation (Marlette Lake Water System)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will provide final design and construction of structural and functional upgrades at the Hobart Reservoir Dam. The schematic level design and grant application is being complete under 19-S04. The scope of work provides upgrades to protect against seismic events, spillway upgrades, access bridge construction, and replacement of discharge piping and outlet valves.

The project has \$10,021,355 of federal grant funding and a 25% state match per the grant requirements. Project Management and Inspection is funded separately by the state.

The federal grant requires \$298,320 of state spending prior to grant award. This spending is reimbursable once the grant is awarded.

Project Justification:

Dam Safety Inspection Reports were received by the State Public Works Division in September 2018 indicating that major work should be undertaken in the near future. In addition to these reports, these dams require functional upgrades of outlet valves and other control features. Failure of this dam would not only interrupt water supplies to Carson City and Storey County but would potentially damage life and property in Washoe Valley.

Background Information:

The Marlette Lake Water System (MLWS) was originally constructed in the 1870's to provide water to Virginia City. It was purchased in 1963 by the State of Nevada and is currently operated by the State Public Works Division. The MLWS provides raw water to Carson City and Storey County and is the only source of water for Virginia City, Gold Hill and Silver City. Water is still conveyed through the 1870's era inverted siphon that runs from a storage tank at Lakeview, under I-580 and back up in elevation to 5-Mile Reservoir near Virginia City.

The Hobart Reservoir Dam is a 28' rubble and earthen structure constructed in 1877. This structure failed in December of 1955 and was repaired.

Project No: C07 **Title:** Construct Organizational Parking (Washoe County Armory)

Description: Construct a gravel parking area for the Washoe County Armory.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** MJM

State: 432,627
Agency: 0
Federal: 1,008,385
Other: 0
Total: 1,441,012

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Stead **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	103,180	114,372	1 Excavate & Export (7,815 cy@ \$30/cy) 234,450
Surveys	15,000	15,793	2 Fencing (2,650 lf@ \$55/lf) 145,750
Soils Analysis	12,500	13,160	3 Retention Basin & Drainage 125,450
Materials Testing Services	19,350	21,448	4 Import & Grade (3,905 cy@ \$25/cy) 97,625
Structural Plan Check	0	0	5 3/4" Gravel Surface (2,125 cy@ \$45/cy) 95,625
Mechanical Plan Check	0	0	6 Clearing & Grubbing (210,125 sf@ \$2/sy) 46,694
Electrical Plan Check	0	0	7 Type 2 Aggregate Base (2,000 cy@ \$18/cy) 36,000
Civil Plan Check	1,709	1,800	8 Sub-grade Stabilization (210,125 sf@ \$1/sy) 23,347
ADA Plan Check	0	0	Total 804,942
Fire Marshal Plan Check	0	0	Allowances:
Code Compliance Plan Check	0	0	1 Secure Facility Allowance (14%) 112,692
Constructability Plan Check	0	0	Total 112,692
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	92,496	92,496	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Drainage Study	6,500	7,205	
Subtotal	250,735	266,274	Total 917,634
Construction Costs			
Construction	917,634	1,014,777	
Construction Contingency	137,645	152,216	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	5,000	5,542	
Hazardous Material Abatement	0	0	
Subtotal	1,060,279	1,172,535	
Miscellaneous			
Advertising	1,477	1,638	
Printing	509	565	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,987	2,202	
Total Project Cost	1,313,001	1,441,012	

Project No: C07 **Title:** Construct Organizational Parking (Washoe County Armory)

Agency: Nevada Army National Guard

Location: Stead

Detail Description:

This project will construct a gravel topped parking area with fencing for organizational vehicle parking at the Washoe County Armory.

This is a 75% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The Nevada Army National Guard has requested an additional structure be designed for construction on the site. The location of this new structure will be located where the current organizational parking is located. Once constructed a new area for organizational vehicles to park will be necessary.

Background Information:

The Washoe County Armory is located on the site of the Harry Reid Training Center in Stead. The construction of this project will need to be completed prior to the construction of the additional structure in order to mitigate disruption of operations at the site. This site is leased by the Nevada National Guard from the Reno Tahoe Airport Authority and the City of Reno Building Department is the authority having jurisdiction. Final plan checking and permitting will be secured through the City for this project.

Project No: C08 **Title:** Purchase of Navy Operational Support Center
Description: Purchase the Navy Operational Support Center in Reno (Stead) Nevada and construct minor interior renovations.
Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** JBC

Funding Summary	
State:	3,795,470
Agency:	0
Federal:	686,035
Other:	0
Total:	4,481,506

Project Group: Armory, Military or Prisons	Building Area: 34,600 gsf
Project Type: Remodel	Months To Construction: 24
Project Site: Local	Const. Annual Inflation Rate: 5.16%
Location: Stead	Total Inflation: 10.59%

	2020	2022	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail: 1 Building Renovation (34,600 sf@ \$17/sf) 588,200 <hr/> Total 588,200 <hr/> Total 588,200
A/E Design & Supervision	68,836	76,303	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	2,509	2,781	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	1,059	1,115	
Civil Plan Check	0	0	
ADA Plan Check	1,765	1,858	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	61,952	61,952	
3rd Party Commissioning	0	0	
FF&E Design Fee	2,941	3,260	
Subtotal	139,061	147,268	
Construction Costs			
Construction	588,200	650,468	
Construction Contingency	88,230	97,570	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	17,300	19,131	
Furnishings and Equipment	58,820	65,200	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	752,550	832,370	
Miscellaneous			
Advertising	1,253	1,389	
Printing	432	479	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	3,324,348	3,500,000	
Subtotal	3,326,033	3,501,868	
Total Project Cost	4,217,644	4,481,506	

Project No: C08 **Title:** Purchase of Navy Operational Support Center

Agency: Nevada Army National Guard

Location: Stead

Detail Description:

The Nevada Army National Guard is seeking assistance in the purchase of the Navy Operational Support Center in Reno-Stead Nevada. In addition, the project will design and construct limited interior alterations to make the existing building compatible with the Nevada National Guard's needs.

This is a 75% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, printing, and purchase of the existing Naval Reserve Center.

Project Justification:

Purchase and renovation of this facility is needed to support the Nevada Army National Guard mission.

Background Information:

The Navy Operational Support Center is currently owned by the University of Nevada Board of Regents. The 34,659 square foot building is situated on a 4.94 acre site at 4601 Cocoa Avenue, Reno, Nevada. The property is improved with a mixed-use office/industrial flex building including 17,570 square feet of office and classroom space located in a two-story structure, a Drill Hall containing 4,057 square feet and an Armory containing 10,680 square feet. In addition, the subject has a detached steel frame shop containing 2,352 square feet. The total gross building is indicated to be 34,600 square feet. The balance of the site includes asphalt paved parking areas and landscaping.

Project No: C09 **Title:** Comfort Stations Replacement (Valley of Fire State Park)

Description: This project is a continuation of the swept project 19-M50 and will design and construct replacement of 6 Comfort Stations within the Valley of Fire State Park.

Funding Summary

Department: CNR **Division:** Parks
Agency: Parks **Project Mgr:** WJL

State: 436,579
Agency: 0
Federal: 379,718
Other: 0
Total: 816,297

Project Group: Offices or Dorms **Building Area:** 900 gsf
Project Type: Remodel **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 4.10%
Location: Valley of Fire **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	73,045	79,276	1 Pre-fabricated Comfort Stations (6 ea@ \$54,560/ea) 327,360
Surveys	30,000	31,253	2 Building Demo (6 ea@ \$8,250/ea) 49,500
Soils Analysis	25,000	26,044	3 Site Development (1,205 sf@ \$14/sf) 16,870
Materials Testing Services	2,607	2,829	4 Earthwork (1,205 sf@ \$10/sf) 12,050
Structural Plan Check	1,487	1,549	Total 405,780
Mechanical Plan Check	0	0	Allowances:
Electrical Plan Check	0	0	1 Remote Site (20%) 81,156
Civil Plan Check	1,228	1,280	Total 81,156
ADA Plan Check	1,461	1,522	Total 486,936
Fire Marshal Plan Check	1,572	1,638	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	56,861	56,861	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	193,260	202,252	
Construction Costs			
Construction	486,936	527,683	
Construction Contingency	73,040	79,152	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	5,000	5,427	
Subtotal	564,976	612,262	
Miscellaneous			
Advertising	1,222	1,326	
Printing	421	457	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,643	1,783	
Total Project Cost	759,880	816,297	

Project No: C09 **Title:** Comfort Stations Replacement (Valley of Fire State Park)

Agency: Nevada Division of State Parks

Location: Valley of Fire

Detail Description:

This project is a continuation of 19-M50 Comfort Stations for the design through construction. The project will replace six (6) restrooms at various remote locations throughout the Valley of Fire State Park.

This project is 50% federal funded and 50% state funded, other than project management and inspection fees which are 100% funded by the state.

Project Justification:

Valley of Fire visitation has increased by 43% in the last 7 years. 2017 had 662,000 visitors at the Park. This increase in visitation has taken a toll on the Comfort Stations through increased usage at the park. The Comfort Stations are over 45 years old, and do not meet ADA requirements, and have exceeded their useful service life. The toilets are old and beginning to deteriorate.

Background Information:

The restrooms were built between 1964 and 1975. Steady increases in visitation over the past several years now have caused regular maintenance on the Comfort Stations. This project is a continuation of 19-M50 Comfort Station at the Valley of Fire State Park in the 2019 CIP.

Project No: C10 **Title:** Aircraft Storage Hangar and Sitework (Harry Reid Training Center)

Description: This project will complete the design and construct a 16,355 sf aircraft storage hangar, including sitework, for the Army Aviation Support Facility (AASF) at the Harry Reid Training Center.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** JBC

State: 2,843,505
Agency: 0
Federal: 3,650,000
Other: 0
Total: 6,493,505

Project Group: Armory, Military or Prisons **Building Area:** 16,355 gsf
Project Type: New **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Stead **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail: 1 Building Construction (16,355 sf@ \$180/sf) 2,943,900 3 Site Development (4.31 ac@ \$4.22/sf) 792,100 4 Off-site Development (2.98 ac@ \$4.98/sf) 646,000 <hr/> Total 4,382,000 Total 4,382,000 Life Cycle Cost Estimate Typical O&M (\$/sf/year today) = 22.88 Estimated Inflation (%/year) = 2.70% Project Area (sf) = 16,355 Life Cycle (years) = 30 Operation & Maintenance Cost = 16,962,318 Construction Cost = 6,493,505 Total Life Cycle Cost = 23,455,823
A/E Design & Supervision	280,776	311,231	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	84,601	93,777	
Structural Plan Check	3,353	3,530	
Mechanical Plan Check	6,095	6,418	
Electrical Plan Check	4,629	4,874	
Civil Plan Check	2,835	2,985	
ADA Plan Check	3,507	3,693	
Fire Marshal Plan Check	8,371	8,814	
Code Compliance Plan Check	11,090	11,676	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	227,506	227,506	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	632,765	674,504	
Construction Costs			
Construction	4,382,000	4,845,890	
Construction Contingency	657,300	726,883	
Green Building Equivalence	175,280	193,836	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	25,000	27,712	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	10,000	10,000	
Local Government Requirements	10,000	11,085	
Hazardous Material Abatement	0	0	
Subtotal	5,259,580	5,815,405	
Miscellaneous			
Advertising	2,413	2,674	
Printing	832	922	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	3,245	3,597	
Total Project Cost	5,895,589	6,493,505	

Project No: C10 **Title:** Aircraft Storage Hangar and Sitework (Harry Reid Training Center)

Agency: Nevada Army National Guard

Location: Stead

Detail Description:

This project will complete the design and construction of a 16,355 square foot aircraft storage hangar for the Army Aviation Support Facility (AASF) at the Harry Reid Training Center. The project will also include the realignment of an existing drainage channel, apron expansion, and a fire water service.

This project is funded with \$3,650,000 of federal funds and the remainder with state funds.

Project Justification:

This project is critical due to the current situation of having aircraft out on the parking apron which is not covered or enclosed, leaving aircraft exposed to the elements. This practice has led to increased maintenance and inspections.

Background Information:

The Army Aviation Support Facility is located on the site of the Harry Reid Training Center in Stead. The facility operates twelve aircraft (six UH-60 Blackhawk helicopters and six CH-47 Chinook helicopters) but only has enough hangar space for six aircraft. This site is leased by the Nevada National Guard from the Reno Tahoe Airport Authority and the City of Reno Building Department is the authority having jurisdiction. Final plan checking and permitting will be secured through the City for this project.

Project No: C11 **Title:** Cemetery Expansion Supplemental Funding (Southern Nevada Veterans Memorial Cemetery)

Description: Development of in-ground and columbarium wall cremation interments.

Funding Summary

Department: NDVS **Division:** VetCem
Agency: SNVMC **Project Mgr:** ALB

State: 607,271
Agency: 0
Federal: 3,541,019
Other: 0
Total: 4,148,290

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Addition **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Boulder City **Total Inflation:** 8.37%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	319,858	347,143	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	12,913	13,452		
Soils Analysis	6,000	6,251		
Materials Testing Services	40,002	43,415		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	2,428	2,529		
ADA Plan Check	3,278	3,415		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	7,730	8,053		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	163,692	163,692		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	555,901	587,950		
Construction Costs				
Construction	2,854,400	3,093,259		Construction Cost Detail: 1 Sitework 2,218,800 2 Columbarium Wall Niches 535,600 <hr/> Total 2,754,400 <hr/> Total 2,754,400
Construction Contingency	428,160	463,989		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	3,282,560	3,557,248		
Miscellaneous				
Advertising	2,119	2,300		
Printing	731	793		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	2,850	3,093		
Total Project Cost	3,841,310	4,148,290		

Project No: C11 **Title:** Cemetery Expansion Supplemental Funding (Southern Nevada Veterans Memorial Cemetery)

Agency: Southern Nevada Veterans Memorial Cemetery

Location: Boulder City

Detail Description:

This project will support continuation of 19-C03.

Funding for this project is \$3,541,019 Federal funding and \$607,271 of State match.

Project Justification:

This is the next phase of expansion according to the master plan. This area of interment will be needed by 2025.

Background Information:

Veterans Memorial Cemetery serves all branches of the Service.

Project No: C12 **Title:** Welding Lab Addition and Renovation (Great Basin College)

Description: This project is the continuation of the swept project 19-P70 and will complete design and construction of a 4,500 sf Welding Lab addition and renovation to the 4,830 sf Welding Lab.

Funding Summary

Department: NSHE **Division:** GBC
Agency: GBC **Project Mgr:** ALB

State: 5,740,320
Agency: 600,000
Federal: 0
Other: 0
Total: 6,340,320

Project Group: Classrooms **Building Area:** 4,500 gsf
Project Type: Addition **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Elko **Total Inflation:** 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	377,060	417,959	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	67,747	75,096		
Structural Plan Check	3,189	3,357		
Mechanical Plan Check	5,972	6,288		
Electrical Plan Check	4,383	4,615		
Civil Plan Check	2,726	2,870		
ADA Plan Check	3,446	3,628		
Fire Marshal Plan Check	7,695	8,102		
Code Compliance Plan Check	10,189	10,727		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	239,467	239,467		
3rd Party Commissioning	9,000	9,976		
FF&E Design Fee	19,861	22,015		
Subtotal	750,734	804,098		
Construction Costs				
Construction	3,972,132	4,392,632		Construction Cost Detail: 1 Welding Lab Addition (4,500 sf@ \$508/sf) 2,286,000 2 Welding Lab Renovation (4,830 sf@ \$224/sf) 1,081,920 3 Welding Booths 162,000 4 Sitework & Utility Relocation (0.13 ac@ \$14/sf) 81,109 <hr/> Total 3,611,029 Allowances: 1 Occupied Facility (10%) 361,103 <hr/> Total 361,103 <hr/> Total 3,972,132
Construction Contingency	595,820	658,895		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	5,400	5,972		
Furnishings and Equipment	397,213	440,298		
Roof Maint. Agreement	10,000	10,000		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	4,980,564	5,507,796		
Miscellaneous				
Advertising	2,338	2,592		
Printing	806	894		
Temporary Facilities	0	0		
Agency Moving Costs	22,500	24,941		
Land Purchase	0	0		
Subtotal	25,644	28,426		
Total Project Cost	5,756,943	6,340,320		

Project No: C12 **Title:** Welding Lab Addition and Renovation (Great Basin College)

Agency: Great Basin College

Location: Elko

Detail Description:

This project will complete the design development through construction for the 4,500 square foot Welding Lab addition and the renovation of the existing 4,830 square foot Welding Lab at the Great Basin College, Elko campus. The buildings are being schematically designed under 19-P70. The expansion includes additional classrooms, welding stations, fabrication, and storage areas. Renovation of the existing building includes minor interior finish remodeling, roof replacement, improved electrical and lighting, essential welding station safety upgrades, replacement of HVAC equipment and controls, and an upgraded welding fume exhaust system. The proposed building expansion will extend southwest into the adjacent lawn and landscaped areas, requiring underground utility relocation work.

Great Basin College will contribute \$600,000 from GBC for Capital Improvement and Institutional Reserve funds to the construction portion of the project.

Project Justification:

Demands on the Welding Program and lab have increased such that classes are scheduled continuously from 7:00 AM to 10:00 PM four days per week, plus most Fridays. Overcrowding is creating safety concerns and class sizes are limited. The 4,500 square foot addition would allow for the expansion of programs to accommodate student demand, integrate new technologies, and new fabrication courses. The existing Welding Technology program produces welders who are American Welding Society (AWS) certified. The job placement rate for students receiving the AWS certification is 90%. If this facility is not expanded, GBC will be unable to expand its welding programs and meet the needs of local industry and the workforce.

Background Information:

This request refunds design through construction of 19-P70 that was deferred in summer 2020. This is the fifth CIP request for this project and was previously requested in 2011, 2013, 2015, 2017 and 2019 and is currently the College's highest priority. During the Schematic Phase in 2020, an asbestos report found no asbestos in the existing Welding Lab. GBC Elko's current welding shop was designed in 1973 for 15-18 students, with additional classes scheduled for specialty and contract training. Welding is also part of the Diesel Technology and Millwright Technology programs. In the early 1990's this capacity was met, reflected by 18-20 full time equivalent (FTE) students enrolled each semester in this lab. However, current enrollment is averaging nearly 45 FTE each semester. Annual program enrollment has more than doubled, far exceeding the intended capacity of the original facility design.

Project No: C13 **Title:** Renovation of Marlette Lecture Hall (Western Nevada College)

Description: This project is the continuation of the swept project 19-P71 and will design from design development and construct a renovation of the 1,950 sf Marlette Lecture Hall.

Funding Summary

Department: NSHE **Division:** WNC
Agency: WNC **Project Mgr:** ALB

State: 1,496,771
Agency: 0
Federal: 0
Other: 0
Total: 1,496,771

Project Group: Classrooms **Building Area:** 1,950 gsf
Project Type: Remodel **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	84,592	93,767	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	3,945	4,373		
Structural Plan Check	1,936	2,038		
Mechanical Plan Check	2,808	2,956		
Electrical Plan Check	1,685	1,774		
Civil Plan Check	0	0		
ADA Plan Check	2,808	2,956		
Fire Marshal Plan Check	2,643	2,782		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	82,054	82,054		
3rd Party Commissioning	0	0		
FF&E Design Fee	4,680	5,188		
Subtotal	187,150	197,889		
Construction Costs				
Construction	936,000	1,035,087		Construction Cost Detail: 1 Building Renovation (1,950 sf@ \$340/sf) 663,000 2 A/V Equipment 273,000 <hr/> Total 936,000 <hr/> Total 936,000
Construction Contingency	140,400	155,263		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	2,340	2,588		
Furnishings and Equipment	93,600	103,753		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	1,172,340	1,296,691		
Miscellaneous				
Advertising	1,470	1,629		
Printing	507	562		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	1,977	2,191		
Total Project Cost	1,361,467	1,496,771		

Project No: C13 Title: Renovation of Marlette Lecture Hall (Western Nevada College)

Agency: Western Nevada College

Location: Carson City

Detail Description:

This project will complete design development through construction of the renovation of the 1,950 square foot Marlette Lecture Hall at Western Nevada College in Carson City. The building is currently being schematically designed under 19-P71. The renovation work will include reconfiguring Marlette Lecture Hall from a 120-seat tiered auditorium style classroom with fixed seating to a less dense and more collaborative teaching classroom with 50 to 60 seats in a less tiered arrangement. Collaborative learning will be facilitated by providing fixed tables with movable chairs, allowing students to turn around and work with the row behind them for group work during a lecture.

Project Justification:

Marlette Lecture Hall has fixed seating with small fold-up tablet writing surfaces. This type of seating is unsuitable for group learning where students can collaborate with each other during the lecture. As a result, Marlette Lecture Hall is scheduled for classes as a last resort.

Background Information:

This request refunds design through construction of 19-P71 that was deferred in summer 2020. This is the second CIP request for this project and was previously requested in 2019. Marlette Lecture Hall was built as a multipurpose classroom, serving as a larger classroom as well as a place for guest speakers and student groups. Marlette Lecture Hall no longer meets the needs of students and faculty for learning and teaching, and no longer meets the needs of the community for a speaker or event space.

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Planning

High Priority and Critical for 2021

Project No: P01 **Title:** Advance Planning: Grant Sawyer Office Building Remodel

Description: This project is a continuation of the swept project 19-P01 and will complete design from design development through construction documents of the approximately 231,944 sf State Government Office Building.

Funding Summary

State: 4,943,728
Agency: 0
Federal: 0
Other: 0
Total: 4,943,728

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** WJL

Project Group: Offices or Dorms **Building Area:** 231,944 gsf
Project Type: Remodel **Months To Construction:** 15
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 5.15%

	2020	2021	Remarks	
Professional Services				
A/E Design & Supervision	3,681,016	3,874,247	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail: 1 Building Renovation (224,000 sf@ \$261/sf) 58,464,000 2 Atrium Infill at Levels 3 & 4 (7,944 sf@ \$655/sf) 5,203,320 3 Site Development 274,890 4 Vehicle Charging Stations (12 ea@ \$15,000/ea) 180,000 <hr/> Total 64,122,210 Total 64,122,210	
Surveys	10,000	10,277		
Soils Analysis	15,000	15,415		
Materials Testing Services	0	0		
Structural Plan Check	18,381	18,889		
Mechanical Plan Check	18,824	19,345		
Electrical Plan Check	13,694	14,073		
Civil Plan Check	17,531	18,015		
ADA Plan Check	10,562	10,854		
Fire Marshal Plan Check	106,943	109,901		
Code Compliance Plan Check	111,809	114,902		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	320,611	337,441		
PWD Project Mgmt & Inspection	262,354	262,354		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	4,586,724	4,805,714		
Construction Costs				
Construction	0	0		
Construction Contingency	0	0		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	125,000	131,562		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	125,000	131,562		
Miscellaneous				
Advertising	4,559	4,798		
Printing	1,572	1,654		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	6,130	6,452		
Total Project Cost	4,717,855	4,943,728		

Project No: P01 **Title:** Advance Planning: Grant Sawyer Office Building Remodel

Agency: Buildings & Grounds

Location: Las Vegas

Detail Description:

This project will complete the Advanced Planning of 19-P01 Grant Sawyer Office Building. This project will replace interior partitions, carpet, wallcovering, interior lighting, HVAC, life safety systems, plumbing, sewer modifications, and will include replacing the existing elevators located at the main lobby. The project will include the following design improvements; atrium infill at levels 3 and 4 and electric vehicle charging stations. The following is a square footage breakdown of the design improvements:

Building Renovation - 224,000 sf
Atrium infill at Levels 3 & 4 - 7,944 sf
Total Square Footage - 231,944 sf

It is anticipated that approximately a \$93,000,000 construction project will be requested in the 2023 Capital Improvement Program as a result of this project.

Project Justification:

The original building systems are beyond their useful life. Maintenance issues, due to the age of the building, are being addressed by Building and Grounds on a case by case basis as they arise. This project will develop a comprehensive plan for addressing these issues as well as propose designs to improve the office workspaces. The CMAR project delivery method has been chosen due to the size of the building, the complexity of the project as a renovation, and the multiple stakeholders at this location.

Background Information:

This project is a continuation of 19-P01. The Grant Sawyer Building was constructed in 1995. The exterior shell was replaced approximately twelve years ago, and the roof and central plant equipment was replaced in 2018. An engineering systems and architectural analysis was completed in January 2019. The analysis recommended to remodel and replace the entire interior infrastructure and building components due to the age and condition of the facility.

Project No: P02 **Title:** Advance Planning: Seismic Retrofit and Renovation (Heroes Memorial & Annex)

Description: This project is the continuation of 19-P02, design development through construction of the 21,000 sf seismic retrofit and renovation of the Heroes Memorial Building and Annex.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** ALB

State: 1,544,163
Agency: 0
Federal: 0
Other: 0
Total: 1,544,163

Project Group: Offices or Dorms **Building Area:** 21,000 gsf
Project Type: Rehab **Months To Construction:** 15
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 6.49%

	2020	2021	Remarks
Professional Services			
A/E Design & Supervision	927,803	989,482	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
Surveys	0	0	
Soils Analysis	0	0	Construction Cost Detail:
Materials Testing Services	0	0	
Structural Plan Check	6,642	6,874	1 Structural Retrofit & Remodel (21,000 sf@ \$743/sf) 15,603,000
Mechanical Plan Check	9,292	9,617	Total 15,603,000
Electrical Plan Check	7,575	7,840	Total 15,603,000
Civil Plan Check	0	0	
ADA Plan Check	5,210	5,392	
Fire Marshal Plan Check	29,470	30,499	
Code Compliance Plan Check	37,072	38,366	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	137,354	146,486	
PWD Project Mgmt & Inspection	159,712	159,712	
3rd Party Commissioning	0	0	
FF&E Design Fee	85,890	91,600	
Architectural Historian	30,000	31,994	
Seismic Structural Evaluation	20,000	21,330	
Subtotal	1,456,021	1,539,191	
Construction Costs			
Construction	0	0	
Construction Contingency	0	0	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	0	0	
Miscellaneous			
Advertising	3,467	3,697	
Printing	1,195	1,275	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	4,662	4,972	
Total Project Cost	1,460,683	1,544,163	

Project No: P02 **Title:** Advance Planning: Seismic Retrofit and Renovation (Heroes Memorial & Annex)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will complete the design development through construction documents for seismic strengthening and a major remodel of the 21,000 square foot Heroes Memorial Building and Annex. The building is currently being schematically designed under 19-P02. This project will provide significant upgrades to the structure, building systems, and provide more effective use of available spaces. Heroes Memorial and the Annex are historic buildings, located on the Capitol Complex, and are part of the Attorney General's office building complex.

It is anticipated that approximately a \$24,400,000 construction project will be requested in the 2023 Capital Improvement Program as a result of this project.

Project Justification:

A study by Melvyn Green and Associates, funded in the 2007 legislative session as part of Project No. 07-M46, identified several deficiencies in the current building. These include: inefficient floor plans and circulation; an unreinforced masonry building that does not meet life safety criteria for seismic performance; ad hoc floor plan changes with some equipment intruding in aisles and exit pathways; there is a circulation conflict at the southwest corner of the building with an elevator shared by the Heroes Memorial and the Annex; and the Attorney General's IT staff is located on the second floor of the Annex with inadequate cooling and electrical service. The engineering report recommends a gut and rehabilitation of the Heroes Memorial Building and significant improvements to the Annex. In May of 2016 a FEMA-154 (Rapid Visual Screening of Buildings for Potential Seismic Hazards) study was conducted by a structural engineer. The final score for this building was 0.9. This indicates that there is a greater than 1 in 10 probability that this building would suffer collapse if subjected to the Maximum Credible Earthquake (MCE) for this location. For basic life-safety performance, FEMA-154 recommends a minimum score of 2, which correlates to a probability of collapse of 1 in 100.

Background Information:

This project was first requested in the 2017 CIP and is a continuation of Project No. 19-P02 which will complete seismic analysis, programming and schematic design for the structural retrofit and renovation of the Heroes Memorial Building and Annex. Designed by Frederick de Longchamps, the Heroes Memorial Building is a two-story plus basement, rectangular building, constructed in 1921 and 14,000 sf in floor area. The attached Annex is a two-story structure, constructed in 1951 and is 7,000 sf in floor area. These buildings have received various minor remodels and mechanical and electrical upgrades over the years. This proposed retrofit and remodel will be similar to projects previously funded retrofits and remodels such as the Laxalt Building, the Carson City Courthouse building, and the Capitol Annex. The Carson City Courthouse (now the Frankie Sue Del Papa Building) is almost identical in appearance, age, and floor plan. The proposed scope of this project will be similar to the seismic retrofit and remodel work done to the Courthouse in the 1999 and 2001 CIP. The Heroes Memorial Building is occupied by the Attorney General's Office and the Annex is occupied by local Veterans groups as well as the Attorneys General's IT staff.

The 2009 Facility Condition Analysis noted the need for the following Heroes Memorial Building (FCA Building No. 0244) projects: Seismic Retrofit (Project Index No. 0244STR1), Exit Sign Upgrade (Project Index No. 0244SFT1), Install Emergency Egress Lighting (Project Index No. 0244SFT2), Install Magnetic Door Holders (Project Index No. 0244SFT5), Panic Hardware Installation (Project Index No. 0244SFT6), Signage for ADA Compliance (Project Index No. 0244ADA2) and Repair Marble Flooring (Project Index No. 0244INT4).

The 2009 Facility Condition Analysis noted the need for the following Heroes Memorial Annex (FCA Building No. 2311) projects: Seismic Retrofit (Project Index No. 2311SFT2), Install Emergency Egress Lighting (Project Index No. 2311SFT1), Exit Sign Upgrade (Project Index No. 2311SFT3), Panic Hardware Installation (Project Index No. 2311SFT5) and Signage for ADA Compliance (Project Index No. 2311ADA3) projects.

Project No: P03 **Title:** Advance Planning: Remodel & Addition (Southern Nevada State Veterans Home)

Description: Provide programming through construction documents for the SNSVH remodel of shared rooms to individual rooms and upgrade various amenities.

Funding Summary

Department: NDVS **Division:** VetHome
Agency: SNSVH **Project Mgr:** WJL

State: 1,635,877
Agency: 0
Federal: 2,593,840
Other: 0
Total: 4,229,717

Project Group: Offices or Dorms **Building Area:** 82,000 gsf
Project Type: Remodel **Months To Construction:** 15
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Boulder City **Total Inflation:** 5.15%

	2020	2021	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	3,024,664	3,183,441	
Surveys	50,240	51,542	
Soils Analysis	30,260	31,044	
Materials Testing Services	0	0	1 Remodel (82,000 sf@ \$196/sf) 16,072,000
Structural Plan Check	9,601	9,849	2 Site Development 4,923,300
Mechanical Plan Check	11,801	12,106	3 Addition (14,400 sf@ \$523/sf) 7,531,200
Electrical Plan Check	9,350	9,592	4 Parking (34,000 sf@ \$14/sf) 476,000
Civil Plan Check	8,751	8,977	
ADA Plan Check	6,630	6,802	Total 29,002,500
Fire Marshal Plan Check	48,995	50,265	Total 29,002,500
Code Compliance Plan Check	59,555	61,098	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	232,020	244,200	
PWD Project Mgmt & Inspection	238,193	238,193	
3rd Party Commissioning	0	0	
FF&E Design Fee	125,450	132,035	
Programming	175,780	185,007	
Subtotal	4,031,289	4,224,153	
Construction Costs			
Construction	0	0	
Construction Contingency	0	0	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	0	0	
Miscellaneous			
Advertising	3,931	4,138	
Printing	1,356	1,427	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	5,287	5,564	
Total Project Cost	4,036,576	4,229,717	

Project No: P03 **Title:** Advance Planning: Remodel & Addition (Southern Nevada State Veterans Home)

Agency: Southern Nevada State Veterans Home

Location: Boulder City

Detail Description:

This project will provide programming and design through construction documents for the renovation of Southern Nevada State Veterans Home located in Boulder City. The project will include programming and a feasibility study of the existing utility infrastructure to develop the overall project efficiently and economically. The project will include renovating interior spaces and the main entrance and vehicular drop off/parking. The interior renovation will include residence bedrooms, common area, central dining, nurses' station, physical therapy spaces, staff work areas, chapel, culinary as well as other support spaces. The proposed remodeling portion will consist of 82,000 sf of existing spaces and will include a 14,400 sf new addition of resident's rooms. Site development will include off site improvements, the replacement and reconfiguration of the existing parking areas and the vehicular drop-off and the addition of perimeter fence encompassing the campus.

The project scope includes:

1. Remodel bedrooms and bathrooms from double occupancy to single occupancy. Remodel from 180 beds (double occupancy) to 120 beds (single occupancy).
2. Remodel the resident areas to enhance the neighborhood community. Remodel the current core of the residential services to include kitchens, dining rooms and various spaces that relate to each other in a more homelike setting.
3. Incorporation of town hall concept, which will include a restaurant style eating.
4. Open access to the central dining room to expand the town hall concept. The access to this area will make events less restrictive and provides greater opportunities for movie theater events. Audio/visual equipment will be included.
5. Smaller nurses stations to promote increased movement throughout each wing.
6. Enlargement of the chapel. More room for residents to be able to join services.
7. The renovation will increase the size of the physical therapy room to offer more equipment and space for individual and group sessions.
8. Redesign of staff work areas. Also, the addition will include a new staff break area.
9. Redesign of entrance. The redesign will enhance the overall arrival experience and as well as facilitate resident movement from within the home to outdoor field trips or visitation with family members.
10. Reconfigured parking to better accommodate the site topography and will increase functionality and aesthetics.
11. Install perimeter security fence and other force protection measures. The renovation will address security through motion activated lighting and modification of landscaping material.

This project is 65% federal funded and 35% state funded, other than project management and inspection fees which are 100% funded by the state.

It is anticipated that approximately a \$43,400,000 construction project will be requested in the 2023 Capital Improvement Program as a result of this project.

Project Justification:

In response to new regulations and guidelines required by the Federal Government, the Veterans Home is presently out of compliance. The regulations now require all bedrooms and bathrooms to be single occupancy, in lieu of the double occupancy that currently exists. The remodel of the Southern Nevada State Veterans Home will improve work environments for staff and a more secure and home-like environment for residents.

Background Information:

The Southern Nevada State Veterans Home is a 180 bed community for veterans, spouses and Gold Star parents. Located 12 miles from Henderson, the SNSVH opened in 2000, it offers skilled nursing services and a variety of programs including Alzheimer's and dementia care that enhance the quality of life for the residents.

Project No: P04 **Title:** Advance Planning: Headquarters Building (Department of Public Safety)

Description: Programming, conceptual design, traffic and utility studies for a 172,000 square foot campus at the old Carson City Armory site.

Funding Summary

Department: PubSafe **Division:** PubSafe
Agency: PubSafe **Project Mgr:** JBC

State: 429,057
Agency: 211,327
Federal: 0
Other: 0
Total: 640,384

Project Group: Offices or Dorms **Building Area:** 172,000 gsf
Project Type: New **Months To Construction:** 15
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 6.49%

	2020	2021	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	11,357	12,112	
Surveys	20,000	20,698	
Soils Analysis	30,000	31,048	
Materials Testing Services	0	0	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	9,469	9,469	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Traffic Study	100,000	106,648	
Conceptual Design	100,000	106,648	
Programming	175,000	186,634	
Utility Study	150,000	159,972	
Subtotal	595,826	633,229	
Construction Costs			
Construction	0	0	
Construction Contingency	0	0	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	0	0	
Miscellaneous			
Advertising	4,989	5,321	
Printing	1,720	1,835	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	6,709	7,155	
Total Project Cost	602,536	640,384	

Project No: P04 **Title:** Advance Planning: Headquarters Building (Department of Public Safety)

Agency: Public Safety

Location: Carson City

Detail Description:

This project will design through conceptual design for the Department of Public Safety headquarters campus in Carson City. The intent of this project is to consolidate the Department's headquarters into a single campus facility and to construct a State Forensic Testing Laboratory and will complete the programming, site design, and utility studies.

The proposed funding for this project is 33% highway funds / 67% state funds.

It is anticipated that final design will be requested in the 2023 Capital Improvement Program as a result of this project.

Project Justification:

The goal of the department is to consolidate personnel and facilities in a centralized Public Safety campus. Currently, DPS staff are working in eight (8) State owned buildings and eight (8) privately leased office locations throughout the Carson City area. This location would bring twelve (12) DPS Divisions together in one DPS Complex. This location would also house a State Forensic Testing Laboratory. This lab would provide State agencies investigative support, with a full service crime scene unit. This would relieve the State's dependency on county lab facilities and their ability to process DPS evidence in a timely manner. The current isolation of the DPS division headquarters offices continues to inhibit the operational effectiveness of the department. This also creates security issues because of ineffective and cumbersome security systems in some of the decentralized office locations. Projections for growth in the Carson City area and the increasing demands for public safety services are well established and make it essential for the department to have adequate centralized facilities to address its current and future needs. Because many public safety emergency responses require multiple disciplines to mitigate, the lack of centralized personnel slows and hinders response capabilities. Construction of this building will allow Public Safety to vacate its current facility at 555 Wright Way and allow DMV expansion in that facility for their current needs and future growth. Because of limited space at the current facility, DPS has already moved some of its divisions out of that building. DMV's space needs also continue to grow and the construction of a new DPS Headquarters Building will benefit both departments.

This DPS Complex will satisfy the department's current needs and accommodate projected future growth. This complex will also add a State Forensic Testing Laboratory, relieving the State's dependency and the expense of utilizing County lab facilities.

Background Information:

This project was requested in 2007, 2009, 2011, 2013, 2015, 2017 and 2019 CIP, yet was not funded. This campus will satisfy the department's current needs and accommodate anticipated future growth. The proposed location for this facility is the State owned 15 acre site off South Carson Street, which was the previous location of the Nevada Army National Guard. Because of its high visibility on a main thoroughfare and the ready access to major traffic routes, this is an excellent location for this facility. As of July 2020, the Department of Public Safety currently occupies 72,387 sf of state owned leased space in Carson City at an annual cost of \$958,080. It also leases 67,242 sf of privately owned space in Carson City at an annual cost of \$1,204,824.

Project No: P05 **Title:** Advance Planning: General Instruction Building (Floyd Edsall Training Center)

Description: Design through construction documents for a General Instruction Building.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** KEN

State: 1,404,880
Agency: 0
Federal: 4,049,000
Other: 0
Total: 5,453,880

Project Group: Armory, Military or Prisons **Building Area:** 68,200 gsf
Project Type: New **Months To Construction:** 15
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: North Las Vegas **Total Inflation:** 5.15%

	2020	2021	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	3,697,281	3,891,366	1 Building Construction (68,200 sf@ \$368/sf) 25,097,600
Surveys	45,000	46,166	2 Additional Primary Facilities 731,000
Soils Analysis	85,000	87,202	3 Earthwork (30 ac@ \$4/sf) 5,227,200
Materials Testing Services	0	0	4 Sitework (83,700 sf@ \$11/sf) 920,700
Structural Plan Check	12,292	12,611	5 Rigid Paving (21,366 sf@ \$13/sf) 277,758
Mechanical Plan Check	13,954	14,315	6 Exercise & Training Courses 417,000
Electrical Plan Check	10,772	11,051	7 Supporting Facilities 1,130,742
Civil Plan Check	11,442	11,739	8 Utilities Building to 300 Feet 532,000
ADA Plan Check	7,922	8,128	9 Onsite Utilities Outside 300 Feet 695,000
Fire Marshal Plan Check	66,759	68,489	10 Offsite Utilities 3,800,000
Code Compliance Plan Check	77,080	79,077	11 Earthwork Outside 300 Feet (2 ac@ \$5/sf) 435,600
Constructability Plan Check	0	0	12 Sitework Outside 300 Feet (36,000 sf@ \$14/sf) 504,000
CMAR Pre-Construction Services	258,496	272,065	
PWD Project Mgmt & Inspection	305,920	305,920	
3rd Party Commissioning	171,972	181,000	
FF&E Design Fee	81,550	85,831	
LEED Design	139,668	147,000	
Programming	149,645	157,500	
Subtotal	5,134,753	5,379,460	Total 39,768,600
Construction Costs			
Construction	0	0	Total 39,768,600
Construction Contingency	0	0	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	65,000	68,412	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	65,000	68,412	
Miscellaneous			
Advertising	4,245	4,467	
Printing	1,464	1,541	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	5,708	6,008	
Total Project Cost	5,205,462	5,453,880	

Project No: P05 **Title:** Advance Planning: General Instruction Building (Floyd Edsall Training Center)

Agency: Nevada Army National Guard

Location: North Las Vegas

Detail Description:

This project will provide design through construction documents for a general instruction building, barracks, dining facility and supporting facilities. The location of the new facility is planned to be within the Floyd Edsall Training Center, north of the Speedway Readiness Center.

This is a 100% federally funded project for eligible costs. The state funds will cover the ineligible costs for project management, inspection, plan checking, advertising, printing, and a portion of the design that cannot be covered by federal funds.

It is anticipated that approximately a \$58,100,000 construction project will be requested in the 2023 Capital Improvement Program as a result of this project.

Project Justification:

This facility is required in order for the 421st Regional Training Institute (RTI) to maintain their accreditation in order to continue to train the National Signal Non-Commissioned Officer (NCO) Corp.

The Nevada Army National Guard requires a self-contained, educational facility with barracks and a dining facility. This educational facility requires adequate space to conduct Non-Commissioned Officer Enlisted Schools (NCOES), Military Occupation Skill (MOS) courses, and 1st Sergeant Courses. Space at Nellis Air Force Base is being used, however this is unsustainable because this is a temporary space and is only 25% of the authorized administration and classroom space.

Background Information:

The Speedway Readiness Center was the first building to be located adjacent to Hollywood Boulevard, and this project will be at the same location.

Project No: P06 **Title:** Advance Planning: Department of Motor Vehicles Silverado Ranch Facility

Description: Design through construction documents of a full service Department of Motor Vehicles facility with commercial driver's license services.

Funding Summary

Department: DMV **Division:** DMV
Agency: DMV **Project Mgr:** JSP

State: 0
Agency: 6,331,883
Federal: 0
Other: 0
Total: 6,331,883

Project Group: Offices or Dorms **Building Area:** 67,000 gsf
Project Type: New **Months To Construction:** 15
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 5.15%

	2020	2021	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	4,719,030	4,966,751	
Surveys	40,000	41,036	
Soils Analysis	20,000	20,518	
Materials Testing Services	0	0	1 Public DMV Facility (43,000 sf@ \$615/sf) 26,445,000
Structural Plan Check	16,560	16,989	2 Parking Lot & Site Development (16 ac@ \$14/sf) 9,757,440
Mechanical Plan Check	17,368	17,818	3 CDL Service Facility (17,000 sf@ \$535/sf) 9,095,000
Electrical Plan Check	12,821	13,153	4 Emissions Facility (7,000 sf@ \$535/sf) 3,745,000
Civil Plan Check	15,710	16,117	5 CDL Test Area (4 ac@ \$16/sf) 2,787,840
ADA Plan Check	9,834	10,089	6 Half Street Improvements (2,815 lf@ \$880/lf) 2,477,200
Fire Marshal Plan Check	94,928	97,387	7 Vehicle Inspection Canopy (4,150 sf@ \$215/sf) 892,250
Code Compliance Plan Check	102,343	104,994	8 Intersection Improvements (1 ac@ \$20/sf) 871,200
Constructability Plan Check	0	0	9 Intersection Signalization 769,528
CMAR Pre-Construction Services	284,202	299,121	Total 56,840,458
PWD Project Mgmt & Inspection	315,756	315,756	
3rd Party Commissioning	0	0	
FF&E Design Fee	280,594	295,324	
Programming Update	55,000	57,887	Total 56,840,458
Subtotal	5,984,146	6,272,942	
Construction Costs			
Construction	0	0	
Construction Contingency	0	0	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	50,000	52,625	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	50,000	52,625	
Miscellaneous			
Advertising	4,462	4,697	
Printing	1,539	1,620	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	6,001	6,316	
Total Project Cost	6,040,147	6,331,883	

Project No: P06 **Title:** Advance Planning: Department of Motor Vehicles Silverado Ranch Facility

Agency: Department of Motor Vehicles

Location: Las Vegas

Detail Description:

This project will design through construction documents for a full service Department of Motor Vehicles (DMV) facility, including Commercial Driver's License (CDL) services, on Silverado Ranch Boulevard in Las Vegas. Project studies will include programming, civil engineering traffic and drainage analysis, zoning approvals, and impact analysis.

The potential building size is expected to be approximately 67,000 sf and would include customer service stations, classrooms, testing spaces, offices, emissions stations and waiting areas. Potential site improvements are expected to include a customer parking lot, inspection canopy, motorcycle and CDL testing tracks, and required off site street improvements.

The proposed site location for the DMV facility is a 20 acre parcel in Las Vegas, at the southeast corner of Silverado Ranch Boulevard and Valley View Boulevard.

This project is 100% Highway Funded.

It is anticipated that approximately a \$80,300,000 construction project will be requested in the 2023 Capital Improvement Program as a result of this project.

Project Justification:

The Donovan CDL Express facility in North Las Vegas is too small to properly accommodate the number of customers that visit the building. Lines of customers can often be seen outside the building, which causes frustration by the time they reach the service counters.

The Henderson DMV facility serves over 1,500 customers each day and business practices have changed since the original construction of the facility. The customer service stations need to be upgraded to better fit modern processes, accommodate an expanded array of computer equipment, and address current accessibility requirements at each station. The parking lot at the Henderson DMV is also undersized, resulting in a shortage of available parking spaces.

If the Silverado Ranch DMV facility is constructed, the DMV anticipates closing both the Donovan Express CDL facility and the Henderson DMV facility, consolidating operations into this new location. The Silverado Ranch DMV facility would conduct all CDL services in the area and would be designed to accommodate future growth in Southern Nevada. The proposed project location has direct vehicular access from Interstate 15 and will better serve both public and CDL customers.

If this project is not funded, future construction of a CDL facility will be delayed, resulting in a continuation of the extended customer wait times at the Donovan Express CDL facility, which will be exacerbated as haulage contractors in the area continue to increase. Customer service at the Henderson DMV would also continue to be constrained by its current facilities, hampering their capacity to optimize the customer service experience, including the ability to provide accessible services for customers with disabilities at each individual station.

Background Information:

The proposed site location is state land. The state acquired the parcel on 8/12/2016 under Recreation and Public Purpose (R&PP) Lease N-92525-01. The lease includes authorization for the development of a CDL course. The plan of development, dated 8/23/2012, that was submitted to the Bureau of Land Management with the R&PP Lease application also includes provisions for future CDL development in the site design.

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Maintenance

High Priority and Critical for 2021

Project No: M01 **Title:** Central Plant Renovation (Attorney General's Office Building)

Description: This project is a continuation of the swept project 19-M30 and will construct replacement of the existing chiller, cooling tower, boilers, pumps, piping, and controls at the Attorney General's Office Building in Carson City.

Funding Summary

State:	1,951,601
Agency:	0
Federal:	0
Other:	0
Total:	1,951,601

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** TJD

Project Group: Offices or Dorms	Building Area: 23,100 gsf
Project Type: Rehab	Months To Construction: 24
Project Site: Local	Const. Annual Inflation Rate: 5.16%
Location: Carson City	Total Inflation: 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	37,076	41,098	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	14,652	16,241		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	88,470	88,470		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	140,198	145,809		
Construction Costs				
Construction	1,410,102	1,559,379		Construction Cost Detail: 1 Chiller Plant Equipment 303,920 2 Temperature Control System 198,550 3 Chilled Water Piping 169,900 4 Cooling Tower Plant Equipment 125,290 5 Electrical Modifications 89,311 6 Domestic Hot Water System 76,890 7 Boiler Plant Equipment 73,970 8 Architectural Modifications 69,560 9 Heating Hot Water Piping 63,180 10 Demolition of Mechanical Systems 37,510 11 Crane/rigging 27,460 12 Testing, Balancing & Commissioning 25,490 13 Seismic Bracing & Firestopping 20,880 <hr/> Total 1,281,911
Construction Contingency	211,515	233,907		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Hazardous Materials Abatement	9,014	9,992		
Subtotal	1,630,631	1,803,278		
Miscellaneous				
Advertising	1,687	1,869	Allowances: 1 Occupied Facility (10%) 128,191 <hr/> Total 128,191 <hr/> Total 1,410,102	
Printing	582	645		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	2,268	2,514		
Total Project Cost	1,773,098	1,951,601		

Project No: M01 **Title:** Central Plant Renovation (Attorney General's Office Building)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will renovate the existing central plant heating and cooling equipment at the Attorney General's Office Building. This project includes replacing the existing chiller, cooling tower, boilers, pumps, piping, and related controls. This project will also replace the existing domestic hot water tempering station with an electronic tempering station. Additionally, the boiler and chiller room walls will be modified and the floor area re-coated to prevent water from penetrating the floor and drain to the occupied spaces below.

This project was developed and designed as part of a 2019 CIP project (19-M30) where the project construction budget was swept in the special session in July 2020 and approved in Senate Bill SB1.

Project Justification:

The existing central plant equipment is approximately 25 years old and has reached the end of its useful service life.

This project will improve energy efficiency at the facility, which will result in reduced Greenhouse Gas emissions. This supports the intent of Senate Bill 254.

The chiller equipment contains R-22 refrigerant which will no longer be available in the United States starting January 1, 2020. The boiler and chiller room exiting needs to be improved to meet current code requirements.

Background Information:

The Attorney General's Office is 23,100 square feet and was constructed in 1937. Various remodels of the building completed and the most recent was in 1993, which included the central plant equipment replacement.

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Description: This project will address Department of Health and Human Services (DHHS) deferred maintenance at locations statewide.

Funding Summary

State:	28,153,124
Agency:	0
Federal:	0
Other:	0
Total:	28,153,124

Department: DHHS **Division:** DHHS
Agency: DHHS **Project Mgr:** BJW

Project Group: Offices or Dorms **Building Area:** 1,636,316 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Statewide **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
A/E Design & Supervision	2,200,300	2,418,848	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
Surveys	5,000	5,209	
Soils Analysis	5,000	5,209	
Materials Testing Services	146,676	160,816	
Structural Plan Check	14,634	15,360	
Mechanical Plan Check	34,471	36,167	
Electrical Plan Check	32,857	34,433	
Civil Plan Check	7,439	7,783	
ADA Plan Check	8,077	8,447	
Fire Marshal Plan Check	14,661	15,380	
Code Compliance Plan Check	4,119	4,291	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	1,593,125	1,593,125	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Health Department Plan Check	4,995	5,421	
Hazardous Materials Testing	3,120	3,458	
Historical Assessment	3,500	3,880	
Structural Evaluation	38,231	42,169	
Hazardous Materials Evaluation	21,500	23,450	
Hazardous Materials Survey	5,000	5,542	
Subtotal	4,142,704	4,388,988	
Construction Costs			
Construction	18,449,546	20,220,903	
Construction Contingency	2,767,432	3,033,135	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	60,000	65,118	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	359,530	393,061	
Hazardous Materials Abatement	11,310	12,537	
Subtotal	21,647,818	23,724,754	
Miscellaneous			
Advertising	26,670	29,284	
Printing	9,197	10,098	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	35,867	39,382	
Total Project Cost	25,826,390	28,153,124	

2020 Project Cost Detail

Priority 1

1 Anti Ligature Fixture Upgrade (Lakes) (21048)	749,579
2 Upgrade Electrical System (CYC) (21163)	4,497,982
3 Security Upgrades (Rawson-Neal) (19624)	1,703,955
4 Building 1 Electrical Upgrade (NNAMHS) (7362)	3,023,849
5 Central Plant Renovation (DiniTownsend) (7370)	3,026,402
6 Central Plant Renovation (NNCAS) (19193)	1,392,835
7 Fire-Smoke Dampers (DiniTownsend) (7371)	783,029
8 Boiler & HVAC Renovations (NYTC) (19239)	1,178,839
9 Multipurpose Building Chiller (NYTC) (19231)	637,651
10 Nurse Station Security (DiniTownsend) (21007)	685,711
11 Old Classroom Building HVAC (CYC) (21162)	452,358
12 Multi-Purpose Building Flooring (CYC) (21272)	1,418,783
13 Rehabilitate Irrigation Well (CYC) (7432)	594,997
14 Access Control Systems (NYTC) (7518)	1,341,404
15 Building 7 Plumbing (SNCAS) (7122)	1,328,907
16 Protective Barriers (DWTC) (21147)	833,596
17 Building 4 HVAC (SNAMHS) (7441)	227,758
18 Chiller Replacement (DRC) (21125)	385,996
19 Bldgs 1, 2 & 5 Boiler Plant (NNAMHS) (7367b)	1,562,757
Total Cost	25,826,390

Priority 2

20 HVAC Replacement (DWTC) (21146)	2,555,723
21 Building 1 Elevator (NNAMHS) (7360)	921,102
22 Interior Lighting (Lake's Crossing) (7652)	845,743
23 Replace Flooring Multiple Bldgs (CYC) (21161)	1,480,206
24 Window Replacement (SNAMHS) (7448)	1,856,747
25 Door Replacement (SNAMHS) (7449)	761,468
26 Flooring Replacment (SNAMHS) (7451)	1,396,006
27 Classroom/Infirmary Bldg Flrng (NYTC) (7515)	844,574
28 DDC System Upgrade (NYTC) (7521)	451,971
29 Patient Restroom Rehab (RNPH) (7442)	2,452,860
30 Door Replacement (Stein Hospital) (7438)	4,807,737
31 Cottages and Admin Bldg Window (CYC) (21160)	1,401,086
32 Window Replacement (SNCAS) (21152)	450,724
33 Bathroom Remodel (SNCAS) (21151)	1,928,666
34 Bathroom Rehabilitation (DWTC) (21149)	1,473,176
35 Exterior Energy Retrofit (NYTC) (21825)	2,217,983
Total Cost	25,845,771

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Agency: Health and Human Services

Location: Statewide

Detail Description:

This project will address Department of Health and Human Services (DHHS) deferred maintenance needs. Priority one projects are those that are planned to be completed within available funding. Priority two projects will be completed as project savings allows. Priority two projects are in priority order. During the course of the biennium, conditions change and project savings may be used to complete emergency repairs or priority two projects that have presented unique needs elevating the priority.

The following are Priority 1 projects:

1. Anti Ligature Fixture Upgrade (Lakes Crossing Center) (21048). This project will remodel 36 client rooms to accommodate new anti-ligature fixtures including stainless steel sink / toilet combination units, fixed beds, and required demolition, patching, repair and finishes.
2. Upgrade Electrical System (Caliente Youth Center) (21163). This project will replace the backup generator, main electrical service, conduits, conductors, panels and transformers in the cottages, administration building, library, and school.
3. Security Upgrades (Rawson-Neal Psychiatric Hospital) (19624). This project will design and remodel the D-Pod Unit at Rawson-Neal Psychiatric Hospital to meet current forensic facility security standards. The remodels will include courtyard fencing, casework for 30 clients, light fixtures, seating, window glazing, additional sally port doors and card access, a drone protection barrier, repairs to damaged finishes, and installing anti-ligature equipment including lighting, louvers and diffusers.
4. Building 1 Electrical Upgrade (Northern Nevada Adult Mental Health Services) (7362). This project will replace the main service entrance, panelboards, conductors, conduit, switches, receptacles, lighting, mechanical equipment connections, fire alarm systems, and telephone/data systems in Building 1 at the Northern Nevada Adult Mental Health Services campus.
5. Central Plant & Control System Renovation (Dini-Townsend Psychiatric Hospital) (7370). This project will provide a renovation of the existing central plant heating and cooling equipment at the Dini-Townsend Psychiatric Hospital. This project will also replace the existing direct digital control system hardware and software. This project will include replacing the existing chiller, cooling tower, plate heat exchanger, boilers, pumps, piping, and related controls. Additionally, this project will replace the existing domestic water heaters and tempering station with an electronic tempering station.
6. Central Plant and Temperature Control System Renovation (Northern Nevada Child and Adolescent Services) (19193). This project will renovate the existing central plant heating and cooling equipment and the temperature control system at the Northern Nevada Child and Adolescent Services Administration Building in Reno. This project includes replacing the existing chiller, boilers, pumps, piping, and related temperature control system.
7. Replace Fire-Smoke Dampers (Dini-Townsend Psychiatric Hospital) (7371). This project will remove and replace existing fire-smoke dampers throughout the building. The fire-smoke dampers will be equipped with monitoring switches such that the facility's staff would be advised should one of the fire-smoke dampers fail or close for any reason.
8. Boiler Replacement and HVAC Renovations (Nevada Youth Training Center) (19239). This project will replace boilers, pumps, piping, unit heaters, evaporative coolers, ductwork, and temperature control systems serving the Industrial/Vocational and Warehouse Buildings at the Nevada Youth Training Center. This project will also replace 5 vehicle and 2 welding exhaust air systems in the Industrial/Vocational Building at the Nevada Youth Training Center.
9. Multipurpose Building Chiller Replacement (Nevada Youth Training Center) (19231). This project will replace the existing air cooled chiller at the Nevada Youth Training Center, Multipurpose Building. This project includes associated piping, equipment, electrical, and direct digital temperature control system modifications.
10. Nurses Station Security Enclosures (Dini-Townsend Psychiatric Hospital) (21007). This project will provide for security / safety glazing enclosures at the Nurses Stations in Dini-Townsend Hospital. Electrical and mechanical modifications are also included as part of this project.

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Agency: Health and Human Services

Location: Statewide

11. Old Classroom Building HVAC Replacement (Caliente Youth Center) (21162). This project will replace four heat pumps that serve the old classroom building at the Caliente Youth Center.
12. Multi-Purpose Building Flooring Replacement (Caliente Youth Center) (21272). This project is a continuation of 19-M20 Flooring Replacement at Caliente Youth Center Multi-Purpose Building. The construction of this project will remove and replace flooring in the gymnasium, dining room, and serving line area. This project will also provide accessible bleachers in the gymnasium and wall protection back-stops.
13. Rehabilitate Irrigation Well (Caliente Youth Center) (7432). This project will design and construct replacement of the existing irrigation well at the Caliente Youth Center (CYC). The project scope involves drilling a new irrigation well, well equipping, and electrical connections.
14. Access Control Systems (Nevada Youth Training Center) (7518). This project will replace the existing door assemblies, door locks, and magnetic door controls in the Administration, Classroom & Infirmary, Warehouse, Mountaineer, Indian, and Explorer R and C Cottages at the Nevada Youth Training Center. This project will supplement access control installation completed as part of previous CIP project (17-M44).
15. Building 7 Plumbing Replacement (Southern Nevada Child and Adolescent Services) (7122). This project will replace the overhead plumbing and HVAC piping for Building #7 (West Neighborhood Family Services Center) at the Southern Nevada Child and Adolescent Services campus in Las Vegas.
16. Protective Barriers (Desert Willow Treatment Center) (21147). This project will design and construct new protective barriers and replace the casework and countertops at the nurse's stations and the front reception desk at the Desert Willow Treatment Center (DWTC).
17. Building 4 HVAC Systems Renovation (Southern Nevada Adult Mental Health Services) (7441). This project will replace the make-up air unit and other HVAC units on Building No. 4 (Kitchen) at the Southern Nevada Adult Mental Health Services campus in Las Vegas.
18. Chiller Replacement (Desert Regional Center) (21125). This project would replace the chiller at the Desert Regional Center (Building 1391).
19. Buildings 1, 2, & 5 Boiler Plant Renovations (Northern Nevada Adult Mental Health Services) (7367b). This project will replace the existing outdoor gas-fired boilers that serve NNAMHS Buildings 1, 2, and 5. New boiler rooms will be constructed to house indoor replacement boilers, pumps, and accessories. The scope of work also includes replacing the existing heating water pumps and associated controls.

The following are Priority 2 projects:

20. HVAC Replacement (Desert Willow Treatment Center) (21146). This project will replace six air handling units at the Desert Willow Treatment Center. Four air handling units are on the roof and two air handling units are on a mezzanine serving the gymnasium. The ninety-one fan coils are located above the ceiling grid throughout the facilities.
21. Building 1 Elevator Installation (Northern Nevada Adult Mental Health Services) (7360). This project will provide a new elevator for ADA access to the second floor of Building 1.
22. Interior Lighting (Lake's Crossing) (7360). This project will replace the interior light fixtures and lamps with new detention rated LED fixtures and lighting controls at the Lake's Crossing Center.
23. Replace Flooring in Multiple Buildings (Caliente Youth Center) (2161). This project will replace the finish flooring in multiple buildings in the Caliente Youth Center.
24. Window Replacement (Southern Nevada Adult Mental Health Services) (7448). This project will replace windows in Buildings 1, 2, 3A, and 6 on the Southern Nevada Adult Mental Health Services, West Charleston Campus. Selected windows in Building 2 will be replaced with impact resistant glazing and sliding glass doors in Building 1 will be replaced as part of this project. This project will also include an evaluation and cost analysis of window replacement alternatives for each building and historical investigations for each building more than 50 years old at the start of construction.

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Agency: Health and Human Services

Location: Statewide

25. Door Replacement (Southern Nevada Adult Mental Health Services) (7449). This project will replace doors and hardware in Buildings 1 and 2, provide security hardware in the computer room of Building 1, installation of two door operators in Building 1, provide card key access system for Buildings 1 and 2, and touch-up paint door frames.

26. Flooring Replacement (Southern Nevada Adult Mental Health Services) (7451). This project will replace vinyl composition tile (VCT), carpet, and repaint interiors in Buildings 1, 2 and 6 at the Southern Nevada Adult Mental Health Services, West Charleston Campus. Along with replacing the floors, this project will also repaint the interior walls of the affected spaces.

27. Classroom/Infirmary Building Flooring Replacement (Nevada Youth Training Center) (7515). This project will replace the flooring in the Classroom/Infirmary building that is heavily damaged and has reached the end of its useful life. This project will include heavy duty vinyl tile, carpet and ceramic tile as well as cove base.

28. Direct Digital Control System Upgrade (Nevada Youth Training Center) (7521). This project will complete the replacement of the direct digital control system for the entire NYTC campus. This project includes HVAC control work at the Frontier/Adventure Dormitory Building, Multipurpose Building, Warehouse, and Industrial Building. This project is a continuation of work completed in SPWD Projects 15-M40, 17-M27, 18-A014, and 19-A026.

29. Patient Restroom Rehabilitation (Rawson-Neal Psychiatric Hospital) (7442). This project will rehabilitate client restrooms at Rawson-Neal Psychiatric Hospital with anti-ligature lighting, stainless steel toilets, stainless steel sinks and faucets, replace exhaust fans, wood lockers, and plumbing shrouds, and selectively replace toilet partitions and ceilings at the showers.

30. Door Replacement (Stein Hospital) (7438). This project will replace doors and hardware in the Stein Hospital and upgrade the access control system.

31. Cottages and Administrative Building Window Replacements (Caliente Youth Center) (21160). This project will replace windows at the Cottages and Administrative Building. The replacement windows will provide for higher energy efficiency and comfort for the youth residing in the Cottages and employees. This project will also include an evaluation and cost analysis of window replacement alternatives for each building more than fifty years old at the start of construction.

32. Window Replacement (Southern Nevada Child and Adolescent Services) (21152). This project will replace windows in Buildings 11, 12, 13, and 14 at the Southern Nevada Child and Adolescent Services campus. This project will replace the windows with dual pane, low-e, impact resistant glass. The frames will be painted to complement the existing buildings. This project will also include an evaluation and cost analysis of window replacement alternatives for each building.

33. Bathroom Remodel (Southern Nevada Child and Adolescent Services) (21151). This project will remodel the bathrooms of the Buildings 11 and 12 at the Southern Nevada Child and Adolescent Services campus to create accessible bathrooms at the first floor, and to install solid surface seamless showers, replace wall and floor finishes, repair under floor plumbing, and replace plumbing fixtures for all bathrooms. This project also will relocate the bathroom floor drains, reslope the floor slab, and replace bathroom floor finishes in Building 13.

34. Bathroom Rehabilitation (Desert Willow Treatment Center) (21149). This project will rehabilitate the patient bathrooms of the Desert Willow Treatment Center to create solid surface seamless showers, install new wall and floor finishes, and replace plumbing fixtures.

35. Building Exterior Energy Retrofit (Nevada Youth Training Center) (21825). This project will design and construct an exterior envelope energy retrofit of the Administration Building, four dormitories, the Education Building, and the Multipurpose Building. The retrofit work includes replacement of the exterior single pane windows, replacing steel and glass doors, painting the Multipurpose Building, and increasing insulation values of the exterior walls of the Administration Building and the four dormitories by applying an exterior insulating finish system (EIFS) to the un-insulated concrete and CMU walls. Design of this project was completed in SPWD project 15-M41.

Project Justification:

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Agency: Health and Human Services

Location: Statewide

The Department of Health and Human Services (DHHS) Priority 1 deferred maintenance projects have been combined into a single maintenance project for the benefit of the State and DHHS. Combining these projects allows the ability to begin the listed Priority 2 projects if savings are identified from Priority 1 projects. This benefits the State and DHHS by allowing the Priority 2 projects to move forward in this biennium rather than waiting until the next biennium. Completing projects sooner decreases potential emergency repairs and improves utilization of state funds.

1. Anti Ligature Fixture Upgrade (Lakes Crossing Center) (21048). Lakes Crossing Center is the State of Nevada's only forensic mental health maximum security facility and is in need of suicide prevention upgrades to meet required State and Federal guidelines for mental health hospitals.
2. Upgrade Electrical System (Caliente Youth Center) (21163). The main electrical service for the campus is original to the building construction, which dates back to 1962. The generator was added in 1994 but has not been upgraded since 1994. The electrical cables are aluminum (the State standard is copper), and the conduits do not have a ground conductor (a life safety issue). The existing electrical system is past its useful life and has life safety issues. Recent projects were affected by the inferior electrical system.
3. Security Upgrades (Rawson-Neal Psychiatric Hospital) (19624). This project is necessary to enable the State to maintain compliance with the terms of the Burnside Consent Decree of December 21, 2015.
4. Building 1 Electrical Upgrade (Northern Nevada Adult Mental Health Services) (7362). The project will increase the building electrical distribution system capacity and reliability to meet increased occupancy and additional equipment power requirements. The existing electrical equipment is 27 years old and has reached the end of its useful life. This project will improve energy efficiency at the facility, which will result in reduced Greenhouse Gas emissions. This supports the intent of Senate Bill 254.
5. Central Plant & Control System Renovation (Dini-Townsend Psychiatric Hospital) (7370). The existing central plant equipment is over 20 years old and is past the end of its useful service life. The equipment contains R-22 refrigerant which cannot be manufactured in, or imported to the USA as of 1/1/2020.
6. Central Plant and Temperature Control System Renovation (Northern Nevada Child and Adolescent Services) (19193). The existing central plant equipment is approximately 23 years old and have reached the end of its useful service life. The chiller equipment also contains R-22 refrigerant which is no longer manufactured in, or imported to the United States. The existing hot and chilled water temperature control valves are failing, resulting in widespread thermal comfort issues and increasing replacement cost as valves become more difficult to obtain. All HVAC systems in the building employ stand-alone controls. Additionally, the stand-alone temperature controls allow for adjacent fan coil units to simultaneously provide heating and cooling, which increases operating costs.
7. Replace Fire-Smoke Dampers (Dini-Townsend Psychiatric Hospital) (7371). The existing fire-smoke dampers are approximately 10 years old. Several of the damper actuators have failed to the closed position and need replacement. The existing fire-smoke dampers are not equipped with monitoring switches, so their position is not reported to the temperature control system. As a result, it is not readily apparent to facilities staff when there is a fire-smoke damper actuator failure.
8. Boiler Replacement and HVAC Renovations (Nevada Youth Training Center) (19239). The existing equipment is over 30 years old is past the end of its useful service life. The boiler serving the Industrial/Vocational has recently experienced a heat exchanger failure and is beyond repair and will need to be replaced. The existing vehicle/welding exhaust system is not adequate and is a hazard for students using the auto shop. This project will improve energy efficiency at the facility, which will result in reduced Greenhouse Gas emissions. This supports the intent of Senate Bill 254.
9. Multipurpose Building Chiller Replacement (Nevada Youth Training Center) (19231). The equipment is approximately 15 years old and is near the end of its useful life. The equipment contains R-22 refrigerant which cannot be manufactured in, or imported to the USA as of 1/1/2020. This project will improve energy efficiency at the facility, which will result in reduced Greenhouse Gas emissions. This supports the intent of Senate Bill 254.
10. Nurses Station Security Enclosures (Dini-Townsend Psychiatric Hospital) (21007). The Dini-Townsend Hospital is an in-patient mental health facility that can be subject to physical abuse of staff by patients and is in need of an area where staff can isolate in safety.

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Agency: Health and Human Services

Location: Statewide

11. Old Classroom Building HVAC Replacement (Caliente Youth Center) (21162). The HVAC Indoor & Roof Top Units Were Installed in 2003. The equipment contains R-22 refrigerant which is no longer manufactured in or imported to the United States.

12. Multi-Purpose Building Flooring Replacement (Caliente Youth Center) (21272). This is a 50 year old facility and the flooring needs replacement in the gymnasium and the dining room area of the Multi-Purpose Building. The Caliente Youth Center (CYC) facility houses 140 youth ages 12 to 18. The CYC facility maintains a high school and is required by Federal law to provide an education to all the youth housed at the facility. An integral part of the educational programs are the various types of physical education classes held in the gymnasium. The gymnasium is also used daily for recreational and sporting activities outside of the school setting especially during the winter months when outdoor recreational facilities are unavailable. The gymnasium and dining room floors need replacing as they are beyond their useful service life.

13. Rehabilitate Irrigation Well (Caliente Youth Center) (7432). The existing 90 foot deep irrigation well was drilled in 1949 and does not meet current regulatory requirements for well construction. The pump and motor have also been in service since that time and cannot be repaired due to their age. The pump cannot be pulled for any maintenance activity do to risk of collapsing the 71 year old well casing.

14. Access Control Systems (Nevada Youth Training Center) (7518). Replacing door controls will improve safety and security for the building personnel. The doors, locks and controls are approximately 40 years old, and have reached the end of their useful life.

15. Building 7 Plumbing Replacement (Southern Nevada Child and Adolescent Services) (7122). The HVAC and plumbing piping are original to the building (1974) and are nearing the end of their useful service life. These pipes ensure that the building's plumbing and HVAC systems remain operational.

16. Protective Barriers (Desert Willow Treatment Center) (21147). Patients of at this psychiatric hospital may occasionally react aggressively towards the staff or towards the equipment behind the nurses stations. The existing nursing stations have an open design that lack protective barriers, so patients are able to walk into the nursing stations freely. This barrier would serve to protect the state's property and the safety of the clients and staff, and it will also serve as additional protection against the spread of infectious diseases as well as protect for equipment and materials from contamination.

17. Building 4 HVAC Systems Renovation (Southern Nevada Adult Mental Health Services) (7441). The kitchen make-up air unit and HVAC units that serve Building No. 4 are approximately 15 years old and are nearing the end of their useful service life. This equipment will provide energy savings and improved reliability.

18. Chiller Replacement (Desert Regional Center) (21125). The existing chiller is approximately 20 years old and has reached the end of its service life. The heat exchanger components inside the chiller have fouled due to scale and some corrosion on the tubes is present also. A replacement chiller will provide greater reliability and an improvement in energy efficiency. The equipment contains R-22 refrigerant which is no longer manufactured in or imported to the United States.

19. Buildings 1, 2, & 5 Boiler Plant Renovations (Northern Nevada Adult Mental Health Services) (7367b). The existing boiler serving Building #1 was replaced as an emergency project under SPWD Project 17-M49A. This is a temporary installation and this project will create a permanent and reliable installation.

20. HVAC Replacement (Desert Willow Treatment Center) (21146). The facility was built in 1998 and all of the air handlers and fan coils are original to the building. These components are past their useful service life. Failure of this equipment would result in not being able to heat or cool an inpatient residential treatment center.

21. Building 1 Elevator Installation (Northern Nevada Adult Mental Health Services) (7360). Building 1 does not currently have an elevator to provide ADA accessibility to the second floor. An employee with disabilities cannot be stationed on the second floor due to lack of accessibility.

22. Interior Lighting (Lake's Crossing) (7652). The lighting fixtures are approximately 40 years old and are at the end of their useful life. This project will reduce energy costs, improve security, safety, and reduce maintenance costs.

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Agency: Health and Human Services

Location: Statewide

23. Replace Flooring in Multiple Buildings (Caliente Youth Center) (21161). The VCT and carpet in these buildings are damaged and reached the end of their useful life. The carpet has substantial wear patterns that are quickly becoming a safety/ tripping hazard. This project will provide for removal and disposal of the existing flooring and installation of new 12x12 VCT and heavy duty commercial grade carpet. The Buildings requesting this work are: 0199; 0211; 0212; 0214; 0215; 0216; 0217; 0218; 0219; 2001.

24. Window Replacement (Southern Nevada Adult Mental Health Services) (7448). The exterior windows in Building 1 are metal frame with single pane glazing, with adjacent of wood framed areas that are rotted. Many of windows leak water and air affecting the heating and cooling of the building as well as staff and/or clients health. The use of Building 2 has changed in the past several years. It is currently functioning as a pharmacy. The existing windows are Lexan and badly damaged. The metal frame windows leak air and water and affect the heating, cooling and staff. Building 3A has wooden frame windows that are in poor condition. In Building 6 all the windows are the original single pane windows and affect the heating, cooling and staff.

25. Door Replacement (Southern Nevada Adult Mental Health Services) (7449). The doors are the original doors installed during construction in 1969 and 1972. Some of the existing doors are damaged from use and age. Control of the exterior doors is critical in maintaining a secured environment for staff and clients.

26. Flooring Replacement (Southern Nevada Adult Mental Health Services) (7451). The vinyl tile and carpet in the buildings is approximately 12 years old. The floor in some offices is visibly soiled. Replacing both the carpet and the VCT flooring will ensure a safe and clean environment for staff, clients and visitors.

27. Classroom/Infirmary Building Flooring Replacement (Nevada Youth Training Center) (7515). Due to the age and heavy foot traffic, the materials are worn out. The public, wards and staff which utilize this building are at risk of tripping on a broken tile or torn piece of carpet. The floor tiles, carpet, etc. have reached the end of their useful life. The materials are at the point of not being able to be maintained.

28. Direct Digital Control System Upgrade (Nevada Youth Training Center) (7521). Some building systems on the campus have direct digital controls while others have pneumatic controls. The direct digital control system will monitor and control the heating, ventilation, and air conditioning equipment in each building from a central computer location. The new proposed control system will also allow for monitoring the equipment remotely. The controls will provide optimized equipment control so lower energy consumption can be achieved.

29. Patient Restroom Rehabilitation (Rawson-Neal Psychiatric Hospital) (7442). Currently, the Rawson-Neal Psychiatric Hospital houses forensic and civil clients. The forensic psychiatric clients require a level of security appropriate to a detention facility and civil psychiatric clients require a physical environment free of hazards that could cause bodily harm or suicide. Clients in this facility can be placed on suicide watch at any time and thus is necessary that the client areas be improved with tamper resistant and anti-ligature fixtures to prevent personal injury or suicide. The wood cabinetry units are worn and showing signs of waterlogging with delamination. Shower heads and control valves are at the end of their useful service life and restroom exhaust fans should be replaced before they fail.

30. Door Replacement (Stein Hospital) (7438). The replacement of interior and exterior doors is necessary to help prevent elopement and strengthen the overall hardening of critical area such as nursing stations, exterior, and interior circulation areas. The doors are deteriorated and at the end of their service life, with wood veneer at interior doors delaminating such that clients can peel them off. The door existing hinges can also be damaged, releasing hydraulic fluid. Door hardware needs to be replaced with anti-ligature hardware for use in a behavioral health facility.

31. Cottages and Administrative Building Window Replacements (Caliente Youth Center) (21160). Most of the windows are double-pane construction in metal frames and are original to the buildings. The window replacements are being requested for the following buildings: 0211; 0212; 0213; 0214; 0215; 0216; 0217; 0218.

32. Window Replacement (Southern Nevada Child and Adolescent Services) (21152). The existing windows for the program are not impact resistant. When the windows are broken, the pieces may be easily used by the youths being served by the facility to harm themselves, others, or staff. In May 2020, the facility experienced 4 broken windows and 2 elopements. When a window is broken

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Agency: Health and Human Services

Location: Statewide

the room is boarded up and considered unusable until the repair is completed, limiting the capacity of the facility to provide mental health services. The double pane windows would also increase resident comfort by reducing drafts and increase energy efficiency with low-e glazing.

33. Bathroom Remodel (Southern Nevada Child and Adolescent Services) (21151). The existing bathroom materials are not seamless and the youths served at the facility have been breaking off pieces for contraband, which could be used by in harmful ways that could impact their health or the health of other patients and staff. The installation of anti-ligature fixtures and bathroom accessories will minimize opportunities for self-harm. Buildings 11 and 12 do not have accessible bathrooms, limiting the youths that may be served by these facilities.

34. Bathroom Rehabilitation (Desert Willow Treatment Center) (21149). The existing bathroom materials are not seamless, and patients have been breaking off pieces for contraband, which could be used by the patients in harmful ways that could impact their health or the health of other patients and staff.

35. Building Exterior Energy Retrofit (Nevada Youth Training Center) (21825). These buildings at the Nevada Youth Training Center were constructed over 40 years ago and the doors and windows are original single pane un-insulated glass in metal frames. The proposed tempered glass dual pane windows will provide a safer environment for the staff and youth and will reduce energy costs associated with heating and cooling of the buildings. Application of an insulating finish to the exterior will also improve energy efficiency of these buildings.

Background Information:

1. Anti Ligature Fixture Upgrade (Lakes Crossing Center) (21048). The Lakes Crossing Center - Building #13 is 35,804 sf and was constructed in 1974.
2. Upgrade Electrical System (Caliente Youth Center) (21163). The CYC Administration is 4,185 sf and was constructed in 1962. The CYC School is 11,760 sf and was constructed in 1962. The cottages are 4,185 sf and built in 1962. The site sits on approximately 33 acres.
3. Security Upgrades (Rawson-Neal Psychiatric Hospital) (19624). The Rawson-Neal Hospital was built in 2006. Two State hospitals with a total of 164 licensed beds are operated as a system with a statewide Director of Forensic Services located at the Lakes Crossing Center in Sparks. The Lakes Crossing Center in Sparks, with 86 beds, was designed and constructed as a forensics hospital and accepts most of the state's higher acuity and higher risk clients. Patient numbers in the last decade had periodically exceeded the number the Lakes Crossing Center could accommodate, resulting in a lawsuit that prompted the State to remodel the Stein Hospital to address the shortage. The Stein Hospital, along with C-Pod Unit located inside Rawson-Neal Hospital in Las Vegas, includes 78 beds, was opened a couple years ago. The facilities in Las Vegas tends to serve less acute, lower risk clients.
4. Building 1 Electrical Upgrade (Northern Nevada Adult Mental Health Services) (7362). The Administration - Building #1 is 32,933 sf and was constructed in 1920.
5. Central Plant & Control System Renovation (Dini-Townsend Psychiatric Hospital) (7370). This building was constructed in 2000 and is approximately 59,000 square feet.
6. Central Plant and Temperature Control System Renovation (Northern Nevada Child and Adolescent Services) (19193). The Administration Building is 17,210 square feet & was constructed in 1977.
7. Replace Fire-Smoke Dampers (Dini-Townsend Psychiatric Hospital) (7371). This building is approximately 59,000 square feet & was constructed in 2000. the actuators on the existing fire-smoke dampers were replaced in 2011.
8. Boiler Replacement and HVAC Renovations (Nevada Youth Training Center) (19239). The Industrial/Vocational Building is 11,264 square feet and was constructed in 1966. The Warehouse is 7,240 sf and was constructed in 1988.
9. Multipurpose Building Chiller Replacement (Nevada Youth Training Center) (19231). The Multipurpose Building is 15,856 square feet and was constructed in 1962.
10. Nurses Station Security Enclosures (Dini-Townsend Psychiatric Hospital) (21007). The Dini-Townsend Hospital-Building #25 is 59,040 sf and was constructed in 2000 This project was previously an approved agency project that

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Agency: Health and Human Services

Location: Statewide

had the funding reallocated.

11. Old Classroom Building HVAC Replacement (Caliente Youth Center) (21162). The Old School Building at the Caliente Youth Center is 11,760 SF and was constructed in 1962.

12. Multi-Purpose Building Flooring Replacement (Caliente Youth Center) (21272). This gymnasium was built in 1966 and the sports flooring was replaced in 1974. The dining room floor was installed in 1996 under project 95-C11. This project was requested in the 2013 and 2015 CIP under a number of campus-wide improvements.

13. Rehabilitate Irrigation Well (Caliente Youth Center) (7432). The Caliente Youth Center houses 140 youth from the ages of 12 to approximately 18 years of age.

14. Access Control Systems (Nevada Youth Training Center) (7518). The Administration is 3,847 sf and was constructed in 1962. The Classrooms & Infirmary is 20,590 sf and was constructed in 1972. The Warehouse is 7,240 sf and was constructed in 1988. The Indian Cottage #4 is 3,847 sf and was constructed in 1962. The Explorer R & C Cottage #3 is 3,847 sf and was constructed in 1962. The Mountaineer Cottage #2 is 3,847 sf and was constructed in 1962.

15. Building 7 Plumbing Replacement (Southern Nevada Child and Adolescent Services) (7122). The West Neighborhood Family Services Center (Building No. 7) is 12,500 sf and was constructed in 1974.

16. Protective Barriers (Desert Willow Treatment Center) (21147). The Desert Willow Treatment Center was constructed in 1998. The existing front desk and nurses stations are original to the construction of the facility.

17. Building 4 HVAC Systems Renovation (Southern Nevada Adult Mental Health Services) (7441). The #4 Food Service Center is 3,400 sf and was constructed in 1972.

18. Chiller Replacement (Desert Regional Center) (21125). The #1391 DRC Administration is 10,656 SF and was constructed in 1976.

19. Buildings 1, 2, & 5 Boiler Plant Renovations (Northern Nevada Adult Mental Health Services) (7367b). The original (east) portion of Building 1 was constructed in 1920 and is approximately 21,700 square feet. The west addition to Building 1 was constructed in 1962 and is approximately 11,300 square feet. The total area of Building 1 is approximately 33,000 square feet. Building 2 was constructed in 1961 and is approximately 9,800 square feet. Building 5 was constructed in 1967 and is approximately 5,500 square feet.

20. HVAC Replacement (Desert Willow Treatment Center) (21146). The #17 Desert Willow Treatment Center is 58,400 SF and was constructed in 1998.

21. Building 1 Elevator Installation (Northern Nevada Adult Mental Health Services) (7360). Building 1 was built in 1920 and utilizes stairways to access the second floor. A building elevator is necessary to provide ADA access.

22. Interior Lighting (Lake's Crossing) (7652). The Lakes Crossing Center - Building #13 is 35,804 sf and was constructed in 1974.

23. Replace Flooring in Multiple Buildings (Caliente Youth Center) (21161). The Caliente Youth Center is a Youth Correctional Facility and the buildings are used as follows: Building A, B, C, H, J, K & L are housing units for the youth; building D is the administration building; the Old School is a classroom facility; the Infirmary is an outpatient facility.

24. Window Replacement (Southern Nevada Adult Mental Health Services) (7448). Building 1 is being used as an outpatient clinic and business office, Building 2 is being used as a pharmacy, drop-in center and business office, Building 3A is currently vacant and Building 6 is being used as a maintenance building with storage areas and offices.

25. Door Replacement (Southern Nevada Adult Mental Health Services) (7449). Building 1 is an outpatient clinic and business office. Building 2 is a pharmacy, outpatient clinic, and business office.

26. Flooring Replacement (Southern Nevada Adult Mental Health Services) (7451). Building 1 is an outpatient clinic and business office. Building 2 is being used as a pharmacy, outpatient clinic and business office. Building 6 is a maintenance building and includes a maintenance area, storage areas and offices.

Project No: M02 **Title:** Deferred Maintenance (Department of Health and Human Services)

Agency: Health and Human Services

Location: Statewide

27. Classroom/Infirmery Building Flooring Replacement (Nevada Youth Training Center) (7515). The Classroom/Infirmery Building was originally constructed in 1972. The ceramic tile and VCT tile flooring is original.

28. Direct Digital Control System Upgrade (Nevada Youth Training Center) (7521). The Nevada Youth Training Center was constructed in 1962. Various building additions to the campus occurred in 1967, 1969, 1973, and 1980. The campus buildings total approximately 102,000 square feet.

29. Patient Restroom Rehabilitation (Rawson-Neal Psychiatric Hospital) (7442). The Rawson-Neal Psychiatric Hospital was constructed in 2006.

30. Door Replacement (Stein Hospital) (7438). Stein Hospital (Building 3) was originally constructed in 1988 psychiatric medical housing unit. Stein Hospital was unoccupied between 2009 and 2016 when the building was remodeled to a forensic psychiatric hospital (CIP project 13-C08), however, that remodel did not include door replacement in the project scope.

31. Cottages and Administrative Building Window Replacements (Caliente Youth Center) (21160). This facility was constructed in the early 1960s and The Cottages & Administrative Building consists of 34,294 sf.

32. Window Replacement (Southern Nevada Child and Adolescent Services) (21152). This cluster of residential units was built in 1981 and is currently being used as part of the Oasis Residential Treatment Center.

33. Bathroom Remodel (Southern Nevada Child and Adolescent Services) (21151). This cluster of residential units was built in 1981 and is currently being used as part of the Oasis Residential Treatment Center. The bathrooms in Building 13 were previously remodeled under 15-S02-2. However, there have been drainage issues at the showers that require rehabilitation.

34. Bathroom Rehabilitation (Desert Willow Treatment Center) (21149). The Desert Willow Treatment Center was constructed in 1998.

35. Building Exterior Energy Retrofit (Nevada Youth Training Center) (21825). The existing windows are single pane construction, original to the buildings, are not energy efficient, and some have been damaged over the years.

Project No: M03 **Title:** Replace Domestic Water and Sanitary Sewer (Northern Nevada Correctional Center)

Description: Continuation of SPWD Project 19-P04 to replace domestic water and sanitary sewers.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: NNCC **Project Mgr:** BJW

State:	13,826,543
Agency:	0
Federal:	0
Other:	0
Total:	13,826,543

Project Group: Armory, Military or Prisons **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	269,198	298,397	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	175,490	194,525	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	376,780	376,780	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Full Time Construction Monitoring	198,000	219,477	
Architectural Historian	20,000	22,169	
Subtotal	1,039,468	1,111,348	
Construction Costs			
Construction	10,403,400	11,504,731	
Construction Contingency	1,040,340	1,150,473	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	50,000	55,423	
Subtotal	11,493,740	12,710,627	
Miscellaneous			
Advertising	3,064	3,396	
Printing	1,057	1,171	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	4,121	4,568	
Total Project Cost	12,537,329	13,826,543	

Construction Cost Detail:

1	Abandon Site Domestic Water (30,100 lf@ \$14/lf)	421,400
2	Abandon Site Sanitary Sewer (14,000 lf@ \$14/lf)	196,000
3	Site Sanitary Sewer (12,300 lf@ \$130/lf)	1,599,000
4	Site Domestic Water (18,700 lf@ \$158/lf)	2,954,600
5	Sanitary Sewer Manhole (57 ea@ \$12,000/ea)	684,000
6	Sanitary Sewer Service Reconnection (47 ea@ \$5,500/ea)	258,500
7	Domestic Water Service Reconnection (57 ea@ \$7,000/ea)	399,000
8	Sidewalk Patching (4,600 sf@ \$20/sf)	92,000
9	Repave Access Roads (120,000 sf@ \$7/sf)	840,000
10	Replace Sanitary Sewer Headworks	625,000
11	Sanitary Sewer Lift Station	415,000
12	Disinfection Testing	40,000
13	Drainage Improvements	145,000
Total		8,669,500
Allowances:		
1	Secure Facility Allowance (10%)	866,950
2	Occupied Facility (10%)	866,950
Total		1,733,900
Total		10,403,400

Project No: M03 **Title:** Replace Domestic Water and Sanitary Sewer (Northern Nevada Correctional Center)

Agency: Northern Nevada Correctional Center

Location: Carson City

Detail Description:

This project will continue SPWD Project 19-P04 and construct a replacement of the domestic water and sanitary sewer system at the Northern Nevada Correctional Center (NNCC). The project scope includes an abandonment of existing sanitary sewer and domestic water utilities and replacement with new sanitary sewer and water utilities, replacement of the sanitary sewer headworks and installation of a lift station.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

NNCC has been expanded several times since the sanitary sewer system was constructed and the system can no longer keep up with the demands. Planned future expansions at NNCC will not be possible without replacing this system. The sanitary sewers were not constructed with adequate slope which causes frequent clogs and the existing transite pipes have deteriorated and cannot be easily repaired. The existing domestic water system is constructed of transite pipes that are past their service life. These pipes are brittle and frequently break. Compounding this problem is the lack of proper shutoff valves in the system.

Background Information:

Northern Nevada Correctional Center is a medium security facility and was originally constructed in the late 1960's and expanded several times. The sanitary sewer and domestic water systems are predominately from the same time period, with additional underground piping added as the facility expanded.

Project No: M04 **Title:** Replace Domestic and Heating Hot Water Piping (Ely State Prison)

Description: This project is the continuation of 19-M11 and will replace the domestic and heating hot water piping in housing units 2-8.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: ESP **Project Mgr:** BBM

State: 10,104,817
Agency: 0
Federal: 0
Other: 0
Total: 10,104,817

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 29,870 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 4.10%
Location: Ely **Total Inflation:** 8.37%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	612,969	665,258	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	0	0		
Structural Plan Check	0	0		
Mechanical Plan Check	10,655	11,100		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	360,046	360,046		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	983,670	1,036,404		
Construction Costs				
Construction	7,273,402	7,882,047		Construction Cost Detail: 1 Demolition of Equipment & Piping 917,612 2 Domestic Water Piping 2,274,988 3 Heating Water Pumps & Piping System Modifications 2,695,144 4 Testing, Balancing, & Commissioning 173,424 <hr/> Total 6,061,168 Allowances: 1 Remote Site (10%) 606,117 2 Secure Facility Allowance (10%) 606,117 <hr/> Total 1,212,234 <hr/> Total 7,273,402
Construction Contingency	1,091,010	1,182,307		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	8,364,412	9,064,354		
Miscellaneous				
Advertising	2,781	3,018		
Printing	959	1,041		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	3,740	4,059		
Total Project Cost	9,351,822	10,104,817		

Project No: M04 **Title:** Replace Domestic and Heating Hot Water Piping (Ely State Prison)

Agency: Ely State Prison

Location: Ely

Detail Description:

This project will replace the existing domestic and heating hot water piping that serves Housing Units 2-8 at the Ely State Prison. The heating hot water and domestic water piping for Housing Unit No. 1 was replaced in project 19-M11. Project 19-M11 also provided the planning and design of the replacement domestic and heating hot water piping systems through the schematic design phase; therefore, this project will provide design development, construction documents and construction administration.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The domestic and heating hot water piping was installed between 1987 and 1989 and has reached the end of its useful life. The piping has severe corrosion damage and pitting.

Background Information:

Ely State Prison is located on a 23 acre site several miles outside Ely on State Route 490. It is a maximum-security prison with a physical plant inventory of 32 minimum-custody dormitory beds and 768 cells. The site has twenty buildings and includes: eight inmate housing units; a scheduled services/administration building; a work and recreation facility; a central plant building with warehouse and vehicle services; a trustee dormitory; main gate house; an armory building; sewage grinder building; equipment storage building; and four guard towers. This prison was built in two phases; the towers, prison support buildings and Housing units 1-4 were built first. Housing units 5-8 were built approximately 2 years later.

Project No: M05 **Title:** Electrical Circuiting, Devices & Lighting Replacement (Plumb Lane Armory)

Description: Replace electrical feeders, branch circuits, electrical devices, LED lighting and lighting controls in three buildings at the Plumb Lane Armory.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** JGA

State: 302,071
Agency: 0
Federal: 692,676
Other: 0
Total: 994,748

Project Group: Armory, Military or Prisons **Building Area:** 14,473 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Reno **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail:
A/E Design & Supervision	66,845	74,096	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	6,756	7,489	
Structural Plan Check	1,635	1,721	
Mechanical Plan Check	0	0	
Electrical Plan Check	1,142	1,203	
Civil Plan Check	1,398	1,472	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	64,840	64,840	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Hazardous Materials Survey	1,400	1,552	
Structural Evaluation	5,000	5,542	
Subtotal	149,016	157,915	
Construction Costs			1 Branch Circuiting - Conduit & Wire (5,250 lf@ \$35/lf) 183,750 2 Panel Feeders - Conduit & Wire (900 lf@ \$75/lf) 67,500 3 Architectural Repairs (125 sf@ \$450/sf) 56,250 4 Interior Lighting (11,457 sf@ \$4/sf) 45,828 5 Interior Lighting Controls (11,457 sf@ \$3/sf) 34,371 6 Trenching, Conduit & Backfill (250 lf@ \$90/lf) 22,500 7 Core Drilling (42 ea@ \$425/ea) 17,850 8 Light Switches & Device Plates (110 ea@ \$93/ea) 10,230 9 Electrical Coordination Study 9,500 10 Receptacles & Device Plates (60 ea@ \$93/ea) 5,580 Total 453,359
			Allowances:
			1 Secure Facility Allowance (20%) 90,672
			2 Occupied Facility (20%) 90,672
			Total 181,344
			Total 634,703
Construction	634,703	701,894	
Construction Contingency	95,205	105,284	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	25,000	27,712	
Subtotal	754,908	834,890	
Miscellaneous			
Advertising	1,304	1,445	
Printing	450	498	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,753	1,944	
Total Project Cost	905,678	994,748	

Project No: M05 **Title:** Electrical Circuiting, Devices & Lighting Replacement (Plumb Lane Armory)

Agency: Nevada Army National Guard

Location: Reno

Detail Description:

This project will replace panelboard feeders, branch circuit conductors, conduits, electrical devices, LED lighting, and lighting controls for three buildings located at the Plumb Lane Armory.

This is a 75% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

Existing feeder and branch circuit conductors are original to the building and rely on the underground raceway systems for the equipment grounding conductor connection. The existing underground conduits have failed due to corrosion and do not provide an effective grounding pathway for the building and increase the risk of electrical shock and electrocution to personnel. The condition of existing conduits, feeders, and branch circuits was identified during completion of approved scope included in CIP project 17-M43. Lighting is approximately 40 years old and at end of service life.

This project will improve energy efficiency at the facility, which will result in reduced greenhouse gas emissions. This supports the intent of Senate Bill 254.

Background Information:

The Plumb Lane Armory was constructed in 1965 and is 11,457 sf. Storage Building 1 was constructed in 1980 and is approximately 405 sf. Storage Building 2 was constructed in 1965 and is approximately 2,611 sf.

Existing feeder, branch circuit wiring, and wiring devices were not included in approved scope of Capital Improvement Project completed in 2019 (17-M43 Power Service Upgrade (Plumb Lane Armory)).

Project No: M06 **Title:** Deferred Maintenance (HECC/SHECC)

Description: This project will provide for HECC/ SHECC-funded deferred maintenance needs including ADA and life safety.

Funding Summary

Department: NSHE **Division:** NSHE
Agency: NSHE **Project Mgr:** BJW

State: 14,000,000
Agency: 0
Federal: 0
Other: 1,000,000
Total: 15,000,000

Project Group: Classrooms **Building Area:** 0 gsf
Project Type: Addition **Months To Construction:** 0
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Var. Locations **Total Inflation:** 0.00%

	2020	2020	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail:
A/E Design & Supervision	0	0	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	158,953	158,953	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	158,953	158,953	
Construction Costs			
Construction	14,841,047	14,841,047	
Construction Contingency	0	0	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	14,841,047	14,841,047	
Miscellaneous			
Advertising	0	0	
Printing	0	0	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	0	0	
Total Project Cost	15,000,000	15,000,000	

Project No: M06 **Title:** Deferred Maintenance (HECC/SHECC)

Agency: Nevada System of Higher Education

Location: Var. Locations

Detail Description:

This project consists of ongoing system-wide repairs and improvements that are completed for less than \$500,000, and are undertaken to reduce the backlog of deferred maintenance. Also included are projects estimated to be completed for under \$100,000, which those are undertaken to renovate existing space, or to improve safety and accessibility of a structure by modifying fire ratings or the exiting system. Historically, the projects are funded at a system-wide level of \$15 million for each biennial budget cycle. The Higher Education Capital Construction (HECC) and Special Higher Education Capital Construction (SHECC) funds are used to finance these projects.

The other funds are from slot tax proceeds.

Project Justification:

This funding is necessary to mitigate the backlog of deferred maintenance.

Background Information:

Beyond the \$15 million in deferred maintenance projects identified for the upcoming biennium, the NSHE Facilities group acknowledge a 10-year, system-wide backlog of projects totaling approximately \$500 million, or \$50 million per year. The backlog was identified during Phase I of a facilities condition assessment conducted by the ISES Corporation on behalf of NSHE's institutions. The study evaluated 71 of NSHE's buildings constructed over 25 years ago, and included an assessment of over 3.346 million square feet of space. The study was used as an internal planning document to assist the institutions with planning deferred maintenance projects for the 2021 budget cycle.

Project No: M07 **Title:** Underground Piping Replacement (Ely State Prison)

Description: Replacement of the underground heating piping at the Ely State Prison. Continuation of the project designed in 19-M09.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: ESP **Project Mgr:** BBM

State: 8,399,741
Agency: 0
Federal: 0
Other: 0
Total: 8,399,741

Project Group: Armory, Military or Prisons **Building Area:** 10,000 gsf
Project Type: Remodel **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 4.10%
Location: Ely **Total Inflation:** 8.37%

	2020	2022	Remarks	
Professional Services				
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.				
Construction Cost Detail:				
A/E Design & Supervision	216,214	234,658	1 Underground Piping Replacement (5,830 lf@ \$380/lf) 2,436,940	
Surveys	40,000	41,671	2 Excavation/backfill Site (8,826 cy@ \$200/cy) 1,941,720	
Soils Analysis	10,000	10,418	3 Piping Anchor Blocks & Guides 125,895	
Materials Testing Services	28,968	31,439	4 Concrete/hardscape Repair 271,440	
Structural Plan Check	0	0	5 Vaults (4 ea@ \$52,559/ea) 231,260	
Mechanical Plan Check	0	0	6 Piping Components 53,875	
Electrical Plan Check	0	0	7 Water Treatment 50,524	
Civil Plan Check	0	0	8 Temporary Fencing (800 ea@ \$125/ea) 110,000	
ADA Plan Check	0	0	Total 5,221,654	
Fire Marshal Plan Check	0	0	Allowances:	
Code Compliance Plan Check	0	0	1 Remote Site (10%) 522,165	
Constructability Plan Check	0	0	2 Secure Facility Allowance (10%) 522,165	
CMAR Pre-Construction Services	0	0	Total 1,044,331	
PWD Project Mgmt & Inspection	268,775	268,775	Total 6,265,985	
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	563,956	586,960		
Construction Costs				
Construction	6,265,985	6,790,328		
Construction Contingency	939,898	1,018,549		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	7,205,882	7,808,878		
Miscellaneous				
Advertising	2,674	2,902		
Printing	922	1,001		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	3,596	3,903		
Total Project Cost	7,773,435	8,399,741		

Project No: M07 **Title:** Underground Piping Replacement (Ely State Prison)

Agency: Ely State Prison

Location: Ely

Detail Description:

This project will replace the underground heating piping throughout the Ely State Prison site. The design of this project was completed under the 19-M09 project.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The underground heating piping at the Ely State Prison is approximately 30 years old. It has failed in numerous locations due to exterior corrosion. Emergency repairs were conducted at Buildings 7, 8 and 12 using funding from CIP 19-M09. The remainder of the site needs the piping to be replaced - central plant, housing units 1, 2, 3, 4, 5, and 6, and buildings 9 and 10.

Background Information:

Ely State Prison is located on a 23 acre site several miles outside Ely on State Route 490. It is a maximum-security prison with a physical plant inventory of 32 minimum-custody dormitory beds and 768 cells. The site has twenty buildings and includes: eight inmate housing units; a scheduled services/administration building; a work and recreation facility; a central plant building with warehouse and vehicle services; a trustee dormitory; main gate house; an armory building; sewage grinder building; equipment storage building; and four guard towers. This prison was built in two phases; the towers, prison support buildings and Housing units 1-4 were built first. Housing units 5-8 were built approximately 2 years later.

Project No: M08 **Title:** Construct Water Wells and Water Systems (Various Fish Hatchery Sites)

Description: This project is the continuation of the swept project 19-M14 and will construct water wells and water systems at the Gallagher Fish Hatchery and Spring Creek Rearing Station.

Funding Summary

Department: Wildlife **Division:** Wildlife
Agency: Wildlife **Project Mgr:** BJW

State: 2,642,494
Agency: 0
Federal: 0
Other: 0
Total: 2,642,494

Project Group: Offices or Dorms **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Var. Locations **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
A/E Design & Supervision	64,478	71,472	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
Surveys	0	0	
Soils Analysis	0	0	Construction Cost Detail:
Materials Testing Services	54,020	59,879	
Structural Plan Check	0	0	1 Gallagher Fish Hatchery 1,442,748
Mechanical Plan Check	0	0	2 Spring Creek Rearing Station 443,205
Electrical Plan Check	0	0	Total 1,885,953
Civil Plan Check	0	0	Total 1,885,953
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	109,932	109,932	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	228,431	241,284	
Construction Costs			
Construction	1,885,953	2,085,605	
Construction Contingency	282,893	312,841	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	2,168,846	2,398,446	
Miscellaneous			
Advertising	1,855	2,056	
Printing	640	709	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,494	2,765	
Total Project Cost	2,399,771	2,642,494	

Project No: M08

Title: Construct Water Wells and Water Systems (Various Fish Hatchery Sites)

Agency: Wildlife

Location: Var. Locations

Detail Description:

This project will design and construct water systems and well improvements at the Gallagher Fish Hatchery and Spring Creek Rearing Station. The design has begun under 19-M14. The Gallagher Fish Hatchery project scope includes a complete replacement of the water distribution system & fire suppression equipment, drilling & equipping a water well, constructing a well equipment house, and reconditioning of the existing water storage tank. The Spring Creek Rearing Station project scope includes drilling & equipping a water well and replacing mechanical equipment inside the existing well equipment house.

Project Justification:

Gallagher Fish Hatchery - The existing water supply is fed by a system of underground vaults that collect spring water. These vaults are not a sealed system and collect dead animals and fish that swim upstream from the fish hatchery due to a lack of backflow protection. The existing ultraviolet (UV) purification system does not reliably treat water. The fire suppression equipment at the facility is in an inoperative condition. The existing site water distribution system is over thirty years old and does not adequately service the facility.

Spring Creek Rearing Station - The existing water well pump sits approximately 14 feet deep and does not meet regulatory requirements for well construction. This well is approximately 150 feet from a sanitary sewer leach field and is at risk of being contaminated.

Background Information:

This request re-funds the construction of 19-M14 that was deferred in summer 2020.

The Gallagher Fish Hatchery is located on the east slope of the Ruby Mountains in Ruby Valley and was originally constructed in 1940, with the last major water system renovation in 1982. The facility has residences, hatchery, offices, rearing stations and raceways, storage and maintenance structures to support NDOW's fish rearing and stocking programs.

The Spring Creek Rearing Station is located approximately 8 miles south of Baker has been used by NDOW for over 50 years to raise fish from fry stage to release stage (8 inches). The facility has residences, raceways, storage and maintenance structures.

Project No: M09 **Title:** Switchgear Renovation and Electrical Testing (Lovelock Correctional Center)

Description: Perform electrical equipment testing, adjustment, and evaluation of electrical systems at the Lovelock Correctional Center.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: LCC **Project Mgr:** JGA

State: 1,546,587
Agency: 0
Federal: 0
Other: 0
Total: 1,546,587

Project Group: Armory, Military or Prisons **Building Area:** 400,000 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Lovelock **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	120,764	133,863	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Perform Electrical Testing 242,500
Structural Plan Check	0	0	2 Electrical Coordination Study 125,500
Mechanical Plan Check	0	0	3 Transfer Switch Renovation 105,600
Electrical Plan Check	1,684	1,773	4 Thermographic Imaging 82,280
Civil Plan Check	0	0	5 Temporary Generator 40,815
ADA Plan Check	0	0	6 Control System Battery Replacement (50 ea@ \$968/ea) 48,400
Fire Marshal Plan Check	0	0	7 Switchgear Software Licensing 27,500
Code Compliance Plan Check	0	0	8 Switchgear Programming & Testing 15,400
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	98,890	98,890	Total 687,995
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	Allowances:
3rd Party Commissioning	108,200	119,936	1 Remote Site (18%) 123,839
Subtotal	329,537	354,462	2 Secure Facility Allowance (18%) 123,839
Construction Costs			
Construction	935,673	1,034,726	Total 247,678
Construction Contingency	140,351	155,209	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	1,076,024	1,189,935	Total 935,673
Miscellaneous			
Advertising	1,470	1,629	
Printing	507	562	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,977	2,191	
Total Project Cost	1,407,538	1,546,587	

Project No: M09 **Title:** Switchgear Renovation and Electrical Testing (Lovelock Correctional Center)

Agency: Lovelock Correctional Center

Location: Lovelock

Detail Description:

This project will perform electrical equipment testing, adjustment, and evaluation of the electrical systems at the Lovelock Correctional Center. This project will also replace medium voltage emergency transfer switch control system, and backup batteries in the Central Plant building and will provide 3rd party commissioning of emergency power system programming and hardware.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The current electrical one-line diagrams and coordination studies are out-of-date per the latest electrical code requirements. The medium voltage automatic transfer switch controls and control batteries are approximately 20 years old and have reached the end of their useful life. The emergency switchgear regularly fails to transfer during a loss of power event at the facility.

Background Information:

The Lovelock Correctional Center (LCC) is located off of Interstate 80, approximately 5 miles north of Lovelock, Nevada. The site has approximately 400,000 square feet of building space and was constructed in two phases. The first was completed in 1993 & the second in 1997. This site houses an average of 1,600 inmates. The Bldg. 07-Central Plant is 7,400 sf and was constructed in 1993.

Project No: M10 **Title:** Plumbing Fixture Water Control Renovations (Housing Units 1 through 4 at Southern Desert Correctional Center)

Description: This project is a continuation of the swept project 17-M66 and will design and construct replacement of existing piping, valves, and water saving control system at the Southern Desert Correctional Center.

Funding Summary

State: 3,226,088
Agency: 0
Federal: 0
Other: 0
Total: 3,226,088

Department: NDOC **Division:** Correctional
Agency: SDCC **Project Mgr:** TJD

Project Group: Armory, Military or Prisons **Building Area:** 17,100 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 4.10%
Location: Indian Springs **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
A/E Design & Supervision	219,731	238,475	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	
Structural Plan Check	0	0	
Mechanical Plan Check	4,268	4,446	
Electrical Plan Check	3,361	3,501	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	141,109	141,109	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	368,469	387,532	
Construction Costs			
Construction	2,267,970	2,457,756	Construction Cost Detail: 1 Plumbing Fixture Valves 616,880 2 Domestic Water Piping 468,680 3 Electrical Modifications 300,705 4 Waste & Vent Piping 186,150 5 Water Controls Hardware 152,575 6 Programming & Software 68,415 7 Testing & Commissioning 48,860 8 Demolition of Piping & Equipment 47,710 <hr/> Total 1,889,975 Allowances: 1 Remote Site (10%) 188,998 2 Secure Facility Allowance (10%) 188,998 <hr/> Total 377,995 <hr/> Total 2,267,970
Construction Contingency	340,196	368,663	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	8,550	9,265	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	2,616,716	2,835,685	
Miscellaneous			
Advertising	1,967	2,135	
Printing	678	736	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,646	2,872	
Total Project Cost	2,987,831	3,226,088	

Project No: M10**Title:** Plumbing Fixture Water Control Renovations (Housing Units 1 through 4 at Southern Desert Correctional Center)**Agency:** Southern Desert Correctional Center**Location:** Indian Springs

Detail Description:

The scope of work for this project includes the replacement of plumbing fixture water controls serving Housing Units 1 through 4 at the Southern Desert Correctional Center. This project was developed and designed as part of a 2017 CIP project (17-M66) where the construction of this project was canceled in the 2020 Special Session, Senate Bill SB1. The project includes replacing existing water controls, piping, and valves.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The plumbing fixture water controls are over 30 years old and have reached the end of their useful life. These water control systems are failing resulting in excessive domestic water usage. Piping in the plumbing chase areas is leaking at valves and needs to be reconfigured for the new valves. Replacing the water controls will significantly reduce housing unit water usage.

Background Information:

Housing Units 1, 2, 3 & 4 are approximately 17,100 square feet each and were constructed in 1982.

Project No: M11 **Title:** Uninterruptable Power Supply and Temperature Control System Upgrade (Bryan Building)

Description: Replace temperature control system and UPS at the Bryan Building in Carson City.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** BJB

State: 1,645,621
Agency: 0
Federal: 0
Other: 0
Total: 1,645,621

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 115,328 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	97,005	107,527	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail:	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	0	0		
Structural Plan Check	0	0		
Mechanical Plan Check	5,606	5,902		
Electrical Plan Check	2,704	2,847		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	94,095	94,095		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	199,410	210,371		
Construction Costs				
Construction	1,126,736	1,246,015		1 Temperature Control System 780,872
Construction Contingency	169,010	186,902		2 Testing & Commissioning 124,670
Green Building Equivalence	0	0	3 Uninterruptable Power Supply 117,280	
Utility/Off-Site Costs	0	0	4 Demolition of Controls & UPS 80,698	
Utility Connection Fees	0	0	5 Electrical Modifications 23,216	
Data/Telecom Wiring	0	0	Total 1,126,736	
Furnishings and Equipment	0	0	Total 1,126,736	
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	1,295,746	1,432,917		
Miscellaneous				
Advertising	1,565	1,735		
Printing	540	598		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	2,105	2,333		
Total Project Cost	1,497,261	1,645,621		

Project No: M11 **Title:** Uninterruptable Power Supply and Temperature Control System Upgrade (Bryan Building)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will replace the temperature control system throughout the building. This project will also replace the uninterruptable power supply (UPS) in the building.

Project Justification:

The temperature control system and UPS are approximately 15 years old and are at the end of their useful service life. The existing temperature control system is obsolete and is becoming costly to service. Additionally, the existing on-site computer that hosts the temperature control system runs on the Microsoft Windows 7 operating system, which has been phased out and is no longer supported.

Background Information:

The Richard H. Bryan Building is 115,328 sf and was constructed in 2005.

Project No: M12 **Title:** Elevator Modernization (EICON Building)

Description: Modernization of the elevator in the EICON building in Carson City.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** ALB

State: 751,789
Agency: 0
Federal: 0
Other: 0
Total: 751,789

Project Group: Offices or Dorms **Building Area:** 383 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	52,593	58,297	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Elevator Modernization 405,600
Structural Plan Check	0	0	2 Cab Interior Upgrade (42 sf@ \$1,300/sf) 54,600
Mechanical Plan Check	1,498	1,577	3 Mechanical Relocation 39,054
Electrical Plan Check	899	946	
Civil Plan Check	0	0	
ADA Plan Check	1,498	1,577	
Fire Marshal Plan Check	1,605	1,690	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	51,015	51,015	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	109,107	115,102	
Construction Costs			
Construction	499,254	552,106	
Construction Contingency	74,888	82,816	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	574,142	634,922	
Miscellaneous			
Advertising	1,184	1,312	
Printing	408	452	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,592	1,764	
Total Project Cost	684,841	751,789	

Project No: M12 **Title:** Elevator Modernization (EICON Building)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will design and construct replacement of safety, communication and notification systems associated with the elevator. The HVAC in the elevator penthouse will be relocated because of lack of clearance to elevator controls.

Project Justification:

It is necessary to replace the existing elevator to provide a safer and more dependable elevator system. New safety laws require the hydraulic cylinder to have two safety plates installed in the cylinder tub; the current cylinder tub has only one. The control panels are not in braille and are located too high off the ground. The control relays are outdated and are no longer able to be purchased. There is no post indicator to show what floor the elevator is on.

Background Information:

This is the third CIP request for this project and was previously requested in 2017 and 2019. The existing internal service was initially installed in 1959 and is due to be replaced. In 2000, the Using Agency requested an elevator replacement, but the Otis representative affirmed that an elevator modernization would suffice.

Project No: M13 **Title:** Terminal Unit Replacement (Department of Motor Vehicles, Flamingo)

Description: The project will renovate the air distribution system for the Flamingo DMV.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** BBM

State: 0
Agency: 1,014,828
Federal: 0
Other: 0
Total: 1,014,828

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 31,800 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	57,583	62,496	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Air Distribution & Ductwork 114,540
Structural Plan Check	0	0	2 Piping System Modifications 106,260
Mechanical Plan Check	4,139	4,311	3 Demolition 42,780
Electrical Plan Check	1,604	1,671	4 Temperature Controls Modifications 128,036
Civil Plan Check	0	0	5 Testing, Balancing & Commissioning 25,944
ADA Plan Check	0	0	6 Seismic Bracing 17,250
Fire Marshal Plan Check	0	0	7 Architectural Modifications 31,050
Code Compliance Plan Check	0	0	8 Electrical Modifications 11,500
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	55,856	55,856	Total 477,360
3rd Party Commissioning	41,340	44,866	
FF&E Design Fee	0	0	Allowances:
Structural Evaluation	10,000	10,853	1 Occupied Facility (20%) 95,472
Subtotal	170,522	180,053	2 Phased Construction (20%) 95,472
Construction Costs			
Construction	668,305	724,229	Total 190,944
Construction Contingency	100,246	108,634	
Green Building Equivalence	0	0	Total 668,305
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	768,550	832,863	
Miscellaneous			
Advertising	1,310	1,421	
Printing	452	490	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,761	1,912	
Total Project Cost	940,833	1,014,828	

Project No: M13 **Title:** Terminal Unit Replacement (Department of Motor Vehicles, Flamingo)

Agency: Buildings & Grounds

Location: Las Vegas

Detail Description:

This project will design and construct an air distribution renovation for the Flamingo DMV.

This project is 100% Highway funded.

Project Justification:

The Flamingo DMV has 54 terminal units. 8 terminal units were replaced from project 15-M28. This would replace the remainder that are failing.

Background Information:

The DMV Flamingo Office is 31,800 sf and was constructed in 1995.

Project No: M14 **Title:** Data Center Facility Site Upgrades (Enterprise IT Services)

Description: Remove and replace pedestrian ramp, two pedestrian stairs, access gate and dock lift at the EITS Data Center.

Funding Summary

Department: Admin **Division:** EITS
Agency: EITS **Project Mgr:** BJW

State: 0
Agency: 325,633
Federal: 0
Other: 0
Total: 325,633

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail:
A/E Design & Supervision	23,268	25,792	
Surveys	5,000	5,264	
Soils Analysis	0	0	
Materials Testing Services	5,656	6,269	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	761	801	
ADA Plan Check	750	790	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	22,570	22,570	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	58,005	61,487	
Construction Costs			
Construction	206,676	228,555	
Construction Contingency	31,001	34,283	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	237,677	262,839	
Miscellaneous			
Advertising	878	973	
Printing	303	335	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,180	1,308	
Total Project Cost	296,863	325,633	

Project No: M14 **Title:** Data Center Facility Site Upgrades (Enterprise IT Services)

Agency: Enterprise Information Technology Services

Location: Carson City

Detail Description:

The project will design and construct removal and replacement of the south building pedestrian ramp and stairs, loading dock pedestrian stairs, sliding access gate and ground dock lift. The project scope includes removal of existing facilities, subgrade preparation, concrete work, handrail installation, and equipment installation.

Enterprise Information Technology Services (EITS) is an Internal Service fund therefore, project funding will be provided by EITS and built into the division FY24-25 budget request.

Project Justification:

The existing pedestrian ramp and stairs are rapidly deteriorating and becoming a safety hazard. The access gate and ground dock lift are at the end of their service life.

Background Information:

The State Computer Facility was originally constructed in 1970. Additions were completed in 1975 and 2007 and the facility is now approximately 23,000 square feet.

Project No: M15 **Title:** Diversion Dam Controls Upgrade (Marlette Lake Water System)

Description: Upgrade controls, install metering, install catwalk and chain link fence at Diversion Dam.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** BJW

State: 815,268
Agency: 0
Federal: 0
Other: 0
Total: 815,268

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	72,253	80,091	
Surveys	5,000	5,264	
Soils Analysis	0	0	
Materials Testing Services	19,042	21,107	
Structural Plan Check	1,500	1,580	
Mechanical Plan Check	1,501	1,581	
Electrical Plan Check	901	948	
Civil Plan Check	1,250	1,317	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	65,230	65,230	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	166,678	177,117	
Construction Costs			
Construction	500,400	553,374	
Construction Contingency	75,060	83,006	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	575,460	636,380	
Miscellaneous			
Advertising	1,189	1,318	
Printing	410	454	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,599	1,772	
Total Project Cost	743,736	815,268	

Project No: M15 **Title:** Diversion Dam Controls Upgrade (Marlette Lake Water System)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will design and install controls, metering , aluminum catwalk, perimeter chain link fence and associated instrumentation updates at the Diversion Dam for the Marlette Lake Water system (MLWS).

Project Justification:

The current controls at the Diversion Dam are over 70 years old and are beyond their life expectancy. There is currently no metering capability at Diversion Dam which puts water rights currently owned by the State of Nevada at risk of forfeiture.

Background Information:

The MLWS was originally constructed in the 1870's to provide water to Virginia City. It was purchased in 1963 by the State of Nevada and is currently run by the State Public Works Division. The MLWS provides raw water to Carson City and Storey County and is the only source of water for Virginia City, Gold Hill and Silver City. Water is still conveyed through the 1870's era inverted siphon that runs from a storage tank at Lakeview, under I-580 and back up in elevation to 5-Mile Reservoir near Virginia City.

Project No: M16 **Title:** Electrical Distribution Upgrade (Northern Nevada Correctional Center)

Description: This project is a continuation of 19-P06, construction of power distribution system at the Northern Nevada Correctional Center.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: NNCC **Project Mgr:** JGA

State: 19,669,185
Agency: 0
Federal: 0
Other: 0
Total: 19,669,185

Project Group: Armory, Military or Prisons **Building Area:** 1,630 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	390,038	432,345	1 2000 kW Emergency Generator (2 ea@ \$1,516,100/ea) 3,032,200
Surveys	0	0	2 Medium Voltage Cable (14,000 lf@ \$153/lf) 2,142,000
Soils Analysis	0	0	3 Medium Voltage Switches (10 ea@ \$135,550/ea) 1,355,500
Materials Testing Services	115,505	128,034	4 Parallel Switchgear 1,306,700
Structural Plan Check	0	0	5 Medium Voltage Transformers (17 ea@ \$59,784/ea) 1,016,328
Mechanical Plan Check	0	0	6 Generator Building (1,630 sf@ \$620/sf) 1,010,600
Electrical Plan Check	0	0	7 Switchgear & Panels (10 ea@ \$72,550/ea) 725,500
Civil Plan Check	0	0	8 Main Service Entrance 720,371
ADA Plan Check	0	0	9 Electrical Room (10 ea@ \$49,820/ea) 498,200
Fire Marshal Plan Check	0	0	10 Testing Coordination Study 201,533
Code Compliance Plan Check	0	0	11 Electrical Distribution Demolition 186,500
Constructability Plan Check	0	0	12 Generator Transformer (2 ea@ \$84,900/ea) 169,800
CMAR Pre-Construction Services	0	0	13 Conductors (4,000 lf@ \$35/lf) 140,000
PWD Project Mgmt & Inspection	460,019	460,019	14 Trenching, Conduit & Backfill (1,500 lf@ \$90/lf) 135,000
3rd Party Commissioning	0	0	15 Temporary Generator 30,000
FF&E Design Fee	0	0	Total 12,670,232
Hazardous Materials Survey	34,000	37,688	
Subtotal	999,562	1,058,085	
Construction Costs			
Allowances:			
Construction	15,204,278	16,813,842	1 Secure Facility Allowance (10%) 1,267,023
Construction Contingency	1,520,428	1,681,384	2 Occupied Facility (10%) 1,267,023
Green Building Equivalence	0	0	Total 2,534,046
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	100,000	110,847	Total 15,204,278
Subtotal	16,824,706	18,606,073	
Miscellaneous			
Advertising	3,372	3,738	
Printing	1,163	1,289	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	4,535	5,027	
Total Project Cost	17,828,803	19,669,185	

Project No: M16 **Title:** Electrical Distribution Upgrade (Northern Nevada Correctional Center)

Agency: Northern Nevada Correctional Center

Location: Carson City

Detail Description:

This project will construct a power distribution system at the Northern Nevada Correctional Center. The power distribution system is currently being designed under 19-P06. Site improvements include a generator building, electrical room additions at 10 buildings, generators, transformers, medium voltage switches, service entrance switchgear, panelboards, conductors.

This project will connect to the recently installed underground electrical raceway systems completed under 2015 CIP construction project 17-M10 Hot Water & Electrical Distribution System (NNCC).

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The site electrical distribution system contains low voltage cable, transformers, & panels that are approximately 56 years old, & have reached the end of their useful life. Existing fire riser/electrical rooms in ten buildings are not adequate for electrical equipment.

This project is a continuation of CIP advance planning project 15-P01 & 19-P06. This project will utilize electrical conduit system completed in Fall 2018.

Background Information:

The Main Gate House, M-1 is 2,200 Sf & was constructed in 1963. The Maintenance Building, M-5 is 3,584 Sf & was constructed in 1969. The Prison Industry Bldg. #1, Waterbeds, M-9 is 10,560 Sf & was constructed in 1967. The Laundry/central Plant, M-7 is 7,000 Sf & was constructed in 1968. The Culinary/dining, M-32 is 16,354 Sf & was constructed in 1987. The Prison Industry, Welding, M-10 is 10,560 Sf & was constructed in 1965. The Prison Industry M-11 is 10,560 Sf & Was Constructed in 1974. The Prison Industry/Property Room/Supply, M-8 is 17,995 Sf & was constructed in 1967. The Visitors Center, M-13 is 4,768 Sf & was constructed in 1974. The Administration/visiting I, M-28 is 9,304 Sf & was constructed in 1974. The Multi-Purpose/gym/chapel, M-14 is 16,306 Sf & was constructed in 1968. The Housing Unit 01, M-15 is 21,586 Sf & was constructed in 1963. The Housing Unit 02, M-16 is 21,586 Sf & was constructed in 1963. The Housing Unit 03, M-17 is 21,586 Sf & was constructed in 1963. The Housing Unit 04, M-18 is 13,641 Sf & was constructed in 1974. The Housing Unit 05, M-19 is 13,641 Sf & was constructed in 1977. The Generator / Switch Gear Room, M-25 is 550 Sf & was constructed in 1974. The Housing Unit 06, M-26 is 10,634 Sf & was constructed in 1981. The Education, M-12 is 7,670 Sf & was constructed in 1963. The Generator / Switch Gear Room, M-25 is 550 Sf & was constructed in 1974. The Regional Medical Facility (unit 8) is 61,138 Sf & was constructed in 1993. The Central Warehouse is 21,300 Sf & was constructed in 1972. The Maintenance Storage is 3,000 Sf & was constructed in 2004. The Housing Unit #10 is 23,780 Sf & was constructed in 2008.

Project No: M17 **Title:** Replace Driveway Snow Melt System (Supreme Court Building)

Description: Replace the existing electrical-based driveway snow melt system with a hot water-based system at the Supreme Court Building in Carson City.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** BJB

State: 413,835
Agency: 0
Federal: 0
Other: 0
Total: 413,835

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 0 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	24,038	26,646	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	3,014	3,341	1 Snow Melt System 136,770
Structural Plan Check	0	0	2 Concrete Driveway (3,300 sf@ \$19/sf) 62,700
Mechanical Plan Check	2,676	2,818	3 Temperature Controls Modifications 30,740
Electrical Plan Check	750	790	4 Demolition of Driveway (3,300 sf@ \$7/sf) 23,100
Civil Plan Check	881	928	5 Electrical Modifications 17,825
ADA Plan Check	0	0	6 Testing & Commissioning 7,660
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	23,317	23,317	Total 278,795
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	Total 278,795
Subtotal	54,678	57,840	
Construction Costs			
Construction	278,795	308,309	
Construction Contingency	41,819	46,246	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	320,614	354,555	
Miscellaneous			
Advertising	966	1,070	
Printing	333	369	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,299	1,440	
Total Project Cost	376,591	413,835	

Project No: M17 **Title:** Replace Driveway Snow Melt System (Supreme Court Building)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will replace the existing electrical-based driveway snow melt system with a hot water-based system. The hot water based system will consist of hot water piping embedded in the new concrete driveway, heat exchanger, pumps, and associated temperature controls. This project requires the replacement of the existing concrete driveway.

Project Justification:

Approximately half of the existing electrical-based snow melt system has failed. The recently-finished boiler plant renovation at the Supreme Court was designed with capacity and connections for a future hot water-based driveway snow melt system. Additionally, a hot water-based snow melt system will cost less to operate than the existing electrical-based one.

Background Information:

The Supreme Court Building is 118,900 sf and was constructed in 1991.

Project No: M18 **Title:** Construct Organizational Parking Addition (Las Vegas Readiness Center)

Description: This is a continuation of project 20-A021 and will construct additional organizational parking at the Las Vegas Readiness Center on Silverado Ranch Boulevard.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** MJM

State: 712,429
Agency: 0
Federal: 1,833,961
Other: 0
Total: 2,546,390

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
A/E Design & Supervision	52,828	57,334	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	38,624	41,919	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	98,403	98,403	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	189,855	197,656	
Construction Costs			
Construction	1,882,496	2,040,025	<p>Construction Cost Detail:</p> <p>1 Clear & Grub (57,525 sf@ \$0.20/sf) 11,505</p> <p>2 Excavate & Export (3,560 cy@ \$32/cy) 113,920</p> <p>3 Import & Compact (1,455 cy@ \$35/cy) 50,925</p> <p>4 Concrete Pavement (57,525 sf@ \$18/sf) 1,035,450</p> <p>5 Lighting & Trenching (10 ea@ \$21,236/ea) 212,360</p> <p>6 Bollards (80 ea@ \$1,222/ea) 97,760</p> <p>7 Drainage Improvements 125,000</p> <p>8 Fencing (1,432 lf@ \$45/lf) 64,440</p> <hr/> <p>Total 1,711,360</p> <p>Allowances:</p> <p>1 Secure Facility Allowance (10%) 171,136</p> <hr/> <p>Total 171,136</p> <hr/> <p>Total 1,882,496</p>
Construction Contingency	282,374	306,004	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	2,164,870	2,346,029	
Miscellaneous			
Advertising	1,854	2,012	
Printing	639	694	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,493	2,705	
Total Project Cost	2,357,218	2,546,390	

Project No: M18 **Title:** Construct Organizational Parking Addition (Las Vegas Readiness Center)

Agency: Nevada Army National Guard

Location: Las Vegas

Detail Description:

This project will construct additional organizational parking with lighting at the Las Vegas Readiness Center (LVRC) on Silverado Ranch Boulevard.

This is a 75% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

Due to force realignment, two Companies are being relocated to LVRC. The current organizational parking at the LVRC is inadequate for the additional rolling stock from these companies.

Background Information:

The design for this project was funded by the Nevada Army National Guard as part of an agency project that was federally funded in 2020 (20-A021).

Project No: M19 **Title:** HVAC Systems Renovation (Carlin Readiness Center)

Description: Replace existing water source heat pumps, package rooftop units, piping, ductwork, and related controls at the Carlin Readiness Center.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** TJD

State: 757,502
Agency: 0
Federal: 1,441,982
Other: 0
Total: 2,199,484

Project Group: Armory, Military or Prisons **Building Area:** 61,000 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Carlin **Total Inflation:** 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	179,631	199,115	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	18,478	20,482		
Structural Plan Check	2,169	2,284		
Mechanical Plan Check	3,423	3,604		
Electrical Plan Check	2,562	2,697		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	128,493	128,493		
3rd Party Commissioning	27,374	30,343		
FF&E Design Fee	0	0		
Subtotal	362,130	387,019		
Construction Costs				
Construction	1,423,200	1,573,864		Construction Cost Detail: 1 Water Source Heat Pumps 470,440 2 Temperature Controls Modifications 171,430 3 Electrical Modifications 109,210 4 Building Modifications 114,340 5 Condenser Water Piping 71,880 6 Package Rooftop Units 70,690 7 Demolition of Equipment & Ductwork 64,660 8 Air Distribution & Ductwork 49,490 9 Temporary Heating & Cooling 39,110 10 Crane/rigging 12,840 11 Test, Balance, & Commissioning 11,910 Total 1,186,000
Construction Contingency	213,480	236,080		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	1,636,680	1,809,943		
Miscellaneous				
Advertising	1,692	1,875	Allowances: 1 Remote Site (10%) 118,600 2 Occupied Facility (10%) 118,600 Total 237,200	
Printing	583	647		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	2,275	2,522		
Total Project Cost	2,001,085	2,199,484	Total 1,423,200	

Project No: M19 **Title:** HVAC Systems Renovation (Carlin Readiness Center)

Agency: Nevada Army National Guard

Location: Carlin

Detail Description:

This project will include the replacement of heat pumps and rooftop units serving various buildings. Additionally, an access platform addition is proposed in the Classroom Building for proper heat pump access.

The mechanical portion of the project includes replacing the existing water source heat pumps, package rooftop units, piping, ductwork, and related controls.

The architectural portion of the project includes an access platform as well as some ceiling removal/replacement to facilitate heat pump access and future maintenance.

This is a 70% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The existing heat pumps and rooftop units are approximately 20 years old and are nearing the end of their useful life.

The equipment contains R-22 refrigerant which cannot be manufactured in, or imported to the USA as of 1/1/2020.

This project will improve energy efficiency at the facility, which will result in reduced Greenhouse Gas emissions. This supports the intent of Senate Bill 254.

Background Information:

Constructed in 1998, this was originally the University of Nevada Carlin Fire Science Academy. The Carlin Readiness Center has seven (7) structures which are approximately total 61,000 total square feet. Another building approximately 5,000 square feet was added to the site in 2013.

Of the seven (7) buildings constructed in 1998 at the Carlin Readiness Center, Buildings 1,2,3,5 and 6 are included in this project.

Project No: M20 **Title:** HVAC System Renovation (Elko Office)

Description: Replace boilers, pumps, piping, fan coil units, ductwork, and temperature control systems at the Department of Wildlife Office Building in Elko.

Funding Summary

Department: Wildlife **Division:** Wildlife
Agency: Wildlife **Project Mgr:** TJD

State: 1,005,764
Agency: 200,000
Federal: 0
Other: 0
Total: 1,205,764

Project Group: Offices or Dorms **Building Area:** 9,000 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Elko **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail:
A/E Design & Supervision	100,563	111,471	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	10,179	11,283	
Structural Plan Check	1,769	1,862	
Mechanical Plan Check	2,306	2,428	
Electrical Plan Check	1,383	1,456	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	87,526	87,526	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Structural Evaluation	9,260	10,264	
Subtotal	212,986	226,291	
Construction Costs			
Construction	768,572	849,935	Allowances: 1 Remote Site (18%) 117,240 Total 117,240
Construction Contingency	115,286	127,490	
Green Building Equivalence	0	0	Total 768,572
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	883,858	977,425	
Miscellaneous			
Advertising	1,374	1,523	
Printing	474	525	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,848	2,049	
Total Project Cost	1,098,691	1,205,764	

Project No: M20 **Title:** HVAC System Renovation (Elko Office)

Agency: Wildlife

Location: Elko

Detail Description:

This project will replace boilers, pumps, piping, fan coil units, ductwork, and temperature control systems serving the Department of Wildlife Office building in Elko.

Agency Funding will be provided by the Nevada Department of Wildlife.

Project Justification:

The existing equipment is approximately 20 years old is nearing the end of its useful service life.

The equipment contains R-22 refrigerant which cannot be manufactured in, or imported to the USA as of 1/1/2020.

This project will improve energy efficiency at the facility, which will result in reduced Greenhouse Gas emissions. This supports the intent of Senate Bill 254.

Background Information:

The Eastern Region NDOW Office Building is 9,000 square feet and was constructed in 2002.

Project No: M21 **Title:** HVAC System Replacement (State Mail Services)

Description: Replace rooftop units serving the Mail Services Building in Carson City.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** BJB

State: 467,930
Agency: 0
Federal: 0
Other: 0
Total: 467,930

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 8,137 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	26,823	29,733	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Temperature Controls Modifications 115,220
Structural Plan Check	0	0	2 Package Rooftop Units 92,840
Mechanical Plan Check	2,987	3,144	3 Testing & Commissioning 28,100
Electrical Plan Check	750	790	4 Ductwork Modifications 19,045
Civil Plan Check	0	0	5 Exhaust Fans 16,270
ADA Plan Check	0	0	6 Demolition of Equipment & Ductwork 15,235
Fire Marshal Plan Check	0	0	7 Electrical Modifications 12,500
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	Total 299,210
PWD Project Mgmt & Inspection	26,019	26,019	
3rd Party Commissioning	0	0	Total 299,210
FF&E Design Fee	0	0	
Hazardous Materials Testing	2,500	2,771	
Subtotal	59,078	62,456	
Construction Costs			
Construction	311,110	344,045	
Construction Contingency	46,667	51,607	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	7,500	8,314	
Subtotal	365,277	403,965	
Miscellaneous			
Advertising	1,012	1,122	
Printing	349	387	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,361	1,508	
Total Project Cost	425,716	467,930	

Project No: M21 **Title:** HVAC System Replacement (State Mail Services)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will replace the existing rooftop units that serve the Mail Services building in Carson City. This project includes replacing the existing rooftop units, roof-mounted exhaust fans, and associated temperature control system.

Project Justification:

The existing mechanical equipment is approximately 24 years old and has reach the end of its useful service life. Additionally, the rooftop units contain R-22 refrigerant which is no longer manufactured in, or imported to the United States.

Background Information:

The State Mail Services Building is 8,137 sf and was constructed in 1953.

Project No: M23 **Title:** HVAC Renovation (Department of Motor Vehicles, Carson City)

Description: This project is the continuation 19-P05 and will replace hot and chilled water central plant, hot and chilled water distribution piping, air handling units, terminal units, and computer room cooling units serving all buildings at the DMV in Carson City.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** BJB

State: 0
Agency: 5,321,115
Federal: 0
Other: 0
Total: 5,321,115

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 115,193 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	84,606	93,783	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	38,522	42,700		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	157,064	157,064		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	280,192	293,548		
Construction Costs				
Construction	3,950,556	4,368,772		Construction Cost Detail: 1 Pumps & Piping Modifications 962,240 2 Control System 774,400 3 Chiller Water Plant Equipment 546,480 4 Air Handling Units 537,192 5 Air Distribution & Ductwork 309,600 6 Demo of Equip, Duct, & Piping 181,680 7 Computer Room Cooling Units 150,000 8 Architectural Modifications 124,200 9 Boiler Plant Equipment 117,720 10 Electrical Modifications 96,600 11 Test, Balance, & Commission 87,000 12 Crane/rigging 55,200 13 Fan Coil Units 8,244 <hr/> Total 3,950,556 <hr/> Total 3,950,556
Construction Contingency	592,583	655,316		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	4,543,139	5,024,088		
Miscellaneous				
Advertising	2,334	2,587		
Printing	805	892		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	3,139	3,480		
Total Project Cost	4,826,471	5,321,115		

Project No: M23 **Title:** HVAC Renovation (Department of Motor Vehicles, Carson City)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will replace the chilled and heating hot water central plant, chilled and heating hot water distribution piping, air handling units, terminal units, and computer room cooling units for the Department of Motor Vehicles buildings in Carson City.

This project is 100% Highway funded.

Project Justification:

The central plant equipment, air handling units, computer room cooling units are over 20 years old and are nearing the end of their useful life. The chiller equipment also contains R-22 refrigerant which will no longer be available in the United States starting January 1, 2020.

Background Information:

The Department of Motor Vehicles Office Building (West Wing) is 31,500 sf and was constructed in 1965.

The Department of Motor Vehicles Office Building Addition (East Wing) is 56,688 sf and was constructed in 1980.

The Department of Motor Vehicles Warehouse is 16,750 sf and was constructed in 1991.

The Department of Motor Vehicles Computer Facility is 10,255 sf and was constructed in 1998.

Project No: M24 **Title:** Restroom and Shower Renovation (Washoe County Armory)

Description: Renovate the restrooms and showers at the Washoe County Armory to include the replacement of all fixtures and finishes.

Funding Summary	
State:	642,290
Agency:	0
Federal:	555,633
Other:	0
Total:	1,197,923

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** MJM

Project Group: Armory, Military or Prisons	Building Area: 0 gsf
Project Type: Remodel	Months To Construction: 24
Project Site: Local	Const. Annual Inflation Rate: 5.16%
Location: Stead	Total Inflation: 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	88,197	97,764	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	3,344	3,707	
Structural Plan Check	0	0	
Mechanical Plan Check	2,369	2,494	
Electrical Plan Check	1,421	1,496	
Civil Plan Check	0	0	
ADA Plan Check	2,369	2,494	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	78,100	78,100	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	175,801	186,055	
Construction Costs			
Construction	789,668	873,264	
Construction Contingency	118,450	130,990	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	5,000	5,542	
Hazardous Material Abatement	0	0	
Subtotal	913,118	1,009,796	
Miscellaneous			
Advertising	1,390	1,541	
Printing	479	531	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,869	2,072	
Total Project Cost	1,090,788	1,197,923	
Construction Cost Detail:			
1	Fixtures (80 ea@ \$2,856/ea)		228,480
2	Tile (7,500 sf@ \$16.25/sf)		121,875
3	Locker Room Equipment		53,750
4	Accessories (3 ea@ \$16,325/ea)		48,975
5	Mechanical		46,750
6	Demolition		36,750
7	Framing		36,575
8	Electrical		32,525
9	Toilet Partitions (3 ea@ \$8,545/ea)		25,635
10	Concrete Floor Replacement (4 ea@ \$3,755/ea)		15,020
11	Drywall (3,500 sf@ \$3.15/sf)		11,025
12	Paint (4,000 sf@ \$1.80/sf)		7,200
13	Insulation & Sealants		4,650
Total			669,210
Allowances:			
1	Phased Construction (18%)		120,458
Total			120,458
Total			789,668

Project No: M24 **Title:** Restroom and Shower Renovation (Washoe County Armory)

Agency: Nevada Army National Guard

Location: Stead

Detail Description:

This project will remodel two shower and restroom facilities, and a separate set of restrooms. The scope will include a complete removal and replacement of all fixtures and finishes and will make necessary repairs and relocations to plumbing systems. The design will include modifications to comply with the Americans with Disabilities Act.

This is a 50% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The fixtures and finishes are failing in this facility. Deteriorating grout and failed drainage systems are causing water to pool which is undermining the tile floor finishes and causing corrosion to metal framing members.

Background Information:

This facility is 63,358 square feet and was constructed in 1997. It has two sets of large men's and women's shower/restroom combination facilities and an additional men's and women's set of restrooms. This is the first request for this project.

Project No: M25 **Title:** Remodel Restroom Facilities (Clark County Armory)

Description: Remodel restrooms and showers at the Clark County Armory.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** KEN

State: 1,009,824
Agency: 0
Federal: 880,630
Other: 0
Total: 1,890,453

Project Group: Armory, Military or Prisons **Building Area:** 2,667 gsf
Project Type: Remodel **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: North Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	148,200	160,842	1 Men's Restroom & Showers 1st Floor (1,095 sf@ \$437/sf) 478,515
Surveys	0	0	2 Women's Restroom & Showers 1st Flr (1,016 sf@ \$437/sf) 443,992
Soils Analysis	0	0	3 Men's Restroom 2nd Floor (252 sf@ \$437/sf) 110,124
Materials Testing Services	0	0	4 Women's Restroom 2nd Floor (304 sf@ \$437/sf) 132,848
Structural Plan Check	0	0	Total 1,165,479
Mechanical Plan Check	3,261	3,397	Allowances:
Electrical Plan Check	2,270	2,365	1 Phased Construction (10%) 116,548
Civil Plan Check	0	0	Total 116,548
ADA Plan Check	3,039	3,166	Total 1,282,027
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	4,224	4,400	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	113,478	113,478	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Hazardous Materials Evaluation	2,500	2,713	
Subtotal	276,972	290,361	
Construction Costs			
Construction	1,282,027	1,389,308	
Construction Contingency	192,304	208,396	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	1,474,331	1,597,704	
Miscellaneous			
Advertising	1,636	1,776	
Printing	564	612	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,200	2,388	
Total Project Cost	1,753,502	1,890,453	

Project No: M25 **Title:** Remodel Restroom Facilities (Clark County Armory)

Agency: Nevada Army National Guard

Location: North Las Vegas

Detail Description:

This project will provide for the design and remodel for the existing men's and women's restrooms and showers at the Clark County Armory. Once completed, it will provide needed upgraded restrooms for soldiers.

This is a 50% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

Existing men's and women's restrooms and showers are over 20 years old and are beyond their useful service life.

Background Information:

The existing Clark County Armory is approximately 76,000 sf and was built in the year 1997.

This project was previously requested in 2015 and 2017 CIP.

Project No: M26 **Title:** Pavilion Renovation (Northern Nevada Veterans Memorial Cemetery)

Description: This project is the continuation of the swept project 19-M27 and will design construct renovations of the 1,600 sf Cemetery Pavilion.

Funding Summary

Department: NDVS **Division:** VetCem
Agency: NNVMC **Project Mgr:** ALB

State: 297,774
Agency: 0
Federal: 0
Other: 0
Total: 297,774

Project Group: Offices or Dorms **Building Area:** 1,600 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Fernley **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	30,074	33,336	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Cemetery Pavilion Renovation (1,600 sf@ \$82/sf) 131,200
Structural Plan Check	931	980	2 Roofing Replacement (1,600 sf@ \$15/sf) 24,000
Mechanical Plan Check	0	0	Total 155,200
Electrical Plan Check	0	0	Allowances:
Civil Plan Check	0	0	1 Remote Site (20%) 31,040
ADA Plan Check	0	0	Total 31,040
Fire Marshal Plan Check	0	0	Total 186,240
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	25,357	25,357	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	56,362	59,673	
Construction Costs			
Construction	186,240	205,956	
Construction Contingency	27,936	30,893	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	214,176	236,849	
Miscellaneous			
Advertising	840	931	
Printing	290	321	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,129	1,252	
Total Project Cost	271,667	297,774	

Project No: M26 Title: Pavilion Renovation (Northern Nevada Veterans Memorial Cemetery)

Agency: Northern Nevada Veterans Memorial Cemetery

Location: Fernley

Detail Description:

This project will design and renovate the Pavilion at the Northern Nevada Veterans Memorial Cemetery. Renovation work includes replacing the glass window units with perforated metal panels, replacement of the concrete masonry walls, a roof replacement, beam seat refinishing and replacing the heavy timber beams with steel beams.

Project Justification:

The project is necessary in order to meet the goals of honoring veterans, eligible family members, and Gold Star Families with dignified burial and final resting places, commemorating service and sacrifice. The Northern Nevada Veterans Memorial Cemetery experiences conflicts with scheduling memorial or interment services three times a week. The cemetery staff does not schedule services as close together as they could due to this conflict.

Background Information:

This request refunds design through construction of 19-M27 that was deferred in spring 2020. This is the third CIP request for this project and was previously requested in 2017 and 2019.

The Facility Conditions Analysis also notes the need for the Storefront / Sloped Glazing Replacement (Project Index No. 1943EXT1) and the Exterior Finishes (Project Index No. 1943EXT2) projects at the Cemetery Pavilion (FCA Building No. 1943), which was built in 1990. The Cemetery Pavilion is located north of the main entrance and is a post and beam construction with exposed glued laminated timber beam frame and exposed aggregate columns. The roof is a sloped / stepped metal hip. There is storefront glass / sloped glazing component on three side and the fourth side is open. The primary use of the building is used as an outside meeting or gathering place. No major maintenance projects have been funded for this structure.

Project No: M27 **Title:** Replace Domestic Water Heaters (Carlin Readiness Center)

Description: Replace the existing domestic hot water heaters in 8 buildings at the Carlin Readiness Center.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** TJD

State: 437,108
Agency: 0
Federal: 586,085
Other: 0
Total: 1,023,193

Project Group: Armory, Military or Prisons **Building Area:** 66,000 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Carlin **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	86,012	95,342	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	8,621	9,557	1 Water Heaters, Gas 119,145
Structural Plan Check	1,648	1,735	2 Tempering Station 97,090
Mechanical Plan Check	1,945	2,048	3 Domestic Water Piping 89,945
Electrical Plan Check	1,167	1,228	5 Temperature Controls Modifications 64,670
Civil Plan Check	0	0	5 Water Heaters, Electric 39,940
ADA Plan Check	0	0	7 Test, Balance, & Commissioning 34,255
Fire Marshal Plan Check	0	0	8 Gas Piping 27,910
Code Compliance Plan Check	0	0	9 Electrical Modifications 27,611
Constructability Plan Check	0	0	10 Demolition of Equipment & Piping 23,680
CMAR Pre-Construction Services	0	0	11 Temporary Domestic Hot Water 25,130
PWD Project Mgmt & Inspection	78,491	78,491	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Structural Evaluation	7,611	8,437	
Subtotal	185,495	196,837	Total 549,376
Construction Costs			
Allowances:			
Construction	648,264	716,891	1 Remote Site (18%) 98,888
Construction Contingency	97,240	107,534	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	745,503	824,424	Total 98,888
Miscellaneous			
Advertising	1,296	1,437	
Printing	447	495	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,743	1,932	Total 648,264
Total Project Cost	932,741	1,023,193	

Project No: M27 **Title:** Replace Domestic Water Heaters (Carlin Readiness Center)

Agency: Nevada Army National Guard

Location: Carlin

Detail Description:

This project will replace the existing gas-fired domestic hot water heaters in seven buildings at the Carlin Readiness Center. The project will include replacing existing water heaters, piping, pumps, and related controls. Some of the water heating systems do not include a hot water return piping circuit, which will be added to those water heating systems to conserve water use and provide instant hot water to the low flow plumbing fixtures when used. The seven buildings included in this project are the Fire Station Building, Turnout Building, Buildings and Grounds Building, Classroom Building, Staff Residence, Administration Building, and the Dining Facility.

This project is 77.5% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The existing domestic hot water heaters are more than 20 years old and are past the end of their useful life.

This project will improve energy efficiency at the facility, which will result in reduced Greenhouse Gas emissions. This supports the intent of Senate Bill 254.

Background Information:

Constructed in 1998, this was originally the University of Nevada Carlin Fire Science Academy. The Carlin Readiness Center has seven (7) structures which are approximately 61,000 total square feet. Another building approximately 5,000 square feet was added to the site in 2013.

Of the seven (7) buildings constructed in 1998 at the Carlin Readiness Center, all of these buildings are included in this project.

Project No: M28 **Title:** Replace Emergency Generator (Florence McClure Women's Correctional Center)

Description: Remove and replace emergency generator and concrete pad at Florence McClure Women's Correctional Center.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: FMWCC **Project Mgr:** JKF

State: 1,080,646
Agency: 0
Federal: 0
Other: 0
Total: 1,080,646

Project Group: Armory, Military or Prisons **Building Area:** 199,212 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: North Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail: 1 Replace Generator 515,250 2 Demolish Existing Generator Pad 25,250 3 Install Generator Pad 37,500 4 Electrical Coordination Study 25,625 5 Safety Bollards (6 ea@ \$1,505/ea) 9,030 6 Extend Conduit & Conductors (135 lf@ \$35/lf) 4,725 <hr/> Total 617,380 Allowances: 1 Secure Facility Allowance (18%) 111,128 <hr/> Total 111,128 <hr/> Total 728,508
A/E Design & Supervision	76,712	83,256	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	7,729	8,388	
Structural Plan Check	1,729	1,801	
Mechanical Plan Check	0	0	
Electrical Plan Check	1,311	1,366	
Civil Plan Check	1,501	1,564	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	74,410	74,410	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	163,392	170,785	
Construction Costs			
Construction	728,508	789,471	
Construction Contingency	109,276	118,421	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	837,785	907,891	
Miscellaneous			
Advertising	1,349	1,464	
Printing	465	505	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,814	1,969	
Total Project Cost	1,002,991	1,080,646	

Project No: M28 **Title:** Replace Emergency Generator (Florence McClure Women's Correctional Center)

Agency: Florence McClure Womens Correctional Center

Location: North Las Vegas

Detail Description:

This project will replace the generator, which was installed in 1997. The generator will connect to the existing automatic transfer switch (ATS), which was replaced in June 2020. A new generator pad will need to be installed for the replacement generator, as the replacement generator will be larger.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The existing emergency generator is original to the building, which is 1997. The automatic transfer switch was replaced by the agency in 2020, due to broken parts and obsolete replacement parts. This emergency generator is the same age, and will have issues with replacement parts and maintenance issues. The generator has 757.3 hours, with 1,430 starts. The generator block heater caught fire on 6/11/2020 during routine maintenance.

Background Information:

The Administration / Housing Units is 199,212 sf and was constructed in 1997.

Project No: M29 **Title:** Replace Exterior Campus Electrical Service Entrance (Department of Motor Vehicles, Carson City)

Description: Replace utility transformer & main switchboard at the Carson City Department of Motor Vehicles.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** JGA

State: 0
Agency: 746,665
Federal: 0
Other: 0
Total: 746,665

Project Group: Offices or Dorms **Building Area:** 115,193 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
A/E Design & Supervision	46,555	51,605	
Surveys	5,000	5,264	
Soils Analysis	0	0	
Materials Testing Services	4,740	5,254	
Structural Plan Check	1,442	1,518	
Mechanical Plan Check	0	0	
Electrical Plan Check	795	837	
Civil Plan Check	1,153	1,214	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	45,159	45,159	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	104,845	110,852	
Construction Costs			
Construction	441,900	488,681	
Construction Contingency	66,285	73,302	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	65,000	72,050	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	573,185	634,033	
Miscellaneous			
Advertising	1,194	1,323	
Printing	412	456	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,606	1,780	
Total Project Cost	679,635	746,665	

Project No: M29 **Title:** Replace Exterior Campus Electrical Service Entrance (Department of Motor Vehicles, Carson City)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will upgrade the campus main utility electrical service entrance with an underground feeder, a main utility transformer and meter/main switchboard at the Carson City Department of Motor Vehicles. The electrical service entrance is located outdoors in the central courtyard and serves all facilities on the campus. This project will continue the upgrade of the electrical distribution system that replaced the emergency generator in 2019 (17-M24 DMV Generator).

This project is 100% Highway funded.

Project Justification:

The existing equipment provides electrical service to all buildings on the DMV campus, is approximately 27 years old and has reached the end of its useful life. The utility transformer and main switchboard is located in the central outdoor courtyard, is connected with an exposed above ground bus duct system that is known to fail and is subject to damage by staff and public. The bus bar system is a safety risk to people who may inadvertently cause damage by leaning or sitting on the bus duct system which would also interrupt the electrical utility service to all buildings at the facility.

DMV Computer Facility provides network communications to all Nevada DMV facilities and utility outage would interrupt business at all connected facilities statewide.

Background Information:

The DMV Office Building (west Wing) is 31,500 Sf & was constructed in 1965. The DMV Office Building Addition (east Wing) is 56,688 Sf & was constructed in 1980. The DMV Computer Facility is 10,255 Sf & was constructed in 1998. The DMV Warehouse is 16,750 Sf & was constructed in 1991.

Project No: M30 **Title:** Housing Unit 4 HVAC System Renovation (Northern Nevada Correctional Center)

Description: Replace air handling units, condensing units, ductwork, lighting, ceilings, and associated temperature control system at the Northern Nevada Correctional Center Housing Unit #4 in Carson City.

Funding Summary	
State:	1,984,173
Agency:	0
Federal:	0
Other:	0
Total:	1,984,173

Department: NDOC **Division:** Correctional
Agency: NNCC **Project Mgr:** BJB

Project Group: Armory, Military or Prisons	Building Area: 13,641 gsf
Project Type: Rehab	Months To Construction: 24
Project Site: Local	Const. Annual Inflation Rate: 5.16%
Location: Carson City	Total Inflation: 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	138,635	153,672	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	13,730	15,219	
Structural Plan Check	2,127	2,240	
Mechanical Plan Check	3,318	3,493	
Electrical Plan Check	2,372	2,498	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	111,322	111,322	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Hazardous Materials Testing	3,500	3,880	
Subtotal	275,004	292,323	
Construction Costs			
Construction	1,317,942	1,457,463	
Construction Contingency	197,691	218,619	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	12,000	13,302	
Subtotal	1,527,633	1,689,384	
Miscellaneous			
Advertising	1,654	1,834	
Printing	570	632	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,225	2,466	
Total Project Cost	1,804,862	1,984,173	

Construction Cost Detail:	
1	Remove & Replace Security Ceiling (7,600 sf@ \$30/sf) 262,200
2	Air Handling Systems 214,325
3	Temperature Controls Modifications 202,500
4	Air Distribution & Ductwork 157,390
5	Demolition of Equipment & Ductwork 73,970
6	Repair Ceiling in Cell (96 ea@ \$750/ea) 72,000
7	Interior Lighting Replacement (7,600 sf@ \$8/sf) 60,800
8	Test, Balance, & Commission 39,850
9	Electrical Power Modifications 15,250
Total 1,098,285	
Allowances:	
1	Secure Facility Allowance (10%) 109,829
2	Occupied Facility (10%) 109,829
Total 219,657	
Total 1,317,942	

Project No: M30 **Title:** Housing Unit 4 HVAC System Renovation (Northern Nevada Correctional Center)

Agency: Northern Nevada Correctional Center

Location: Carson City

Detail Description:

This project will replace the air handling units, condensing units, all ductwork, air distribution, and associated temperature control system. This project will also replace all security ceilings and interior lighting in the center common area and corridors. Additionally, this project will repair the security ceilings in all 96 cells.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The air handling units are approximately 20 years old and have reached the end of their service life. The existing evaporative cooling outdoor air handling unit is severely corrosion-damaged. The existing duct system has been damaged by inmate activity, which prompted NNCC to install flexible replacement duct about two years ago. This excessive use of flexible duct compromises air delivery to the cells.

Background Information:

The Housing Unit 04, M-18 is 13,641 sf and was constructed in 1974.

Project No: M31 **Title:** Water Softener Replacement (Florence McClure Women's Correctional Center)

Description: This project will replace five water softeners and associated equipment.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: FMWCC **Project Mgr:** BBM

State: 468,422
Agency: 0
Federal: 0
Other: 0
Total: 468,422

Project Group: Armory, Military or Prisons **Building Area:** 199,212 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: North Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	33,176	36,006	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	
Structural Plan Check	0	0	
Mechanical Plan Check	944	984	
Electrical Plan Check	0	0	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	32,181	32,181	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Water Quality Testing	5,000	5,427	
Subtotal	71,301	74,597	
Construction Costs			
Construction	314,832	341,177	
Construction Contingency	47,225	51,177	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	362,057	392,354	
Miscellaneous			
Advertising	1,008	1,094	
Printing	347	377	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,355	1,471	
Total Project Cost	434,713	468,422	

Project No: M31 **Title:** Water Softener Replacement (Florence McClure Women's Correctional Center)

Agency: Florence McClure Womens Correctional Center

Location: North Las Vegas

Detail Description:

This project will replace five water softeners and associated equipment at the Florence McClure Women's Correctional Center.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The five existing water softeners are original to the facility which was constructed in 1997. These units have failed and are no longer operational or maintainable.

Background Information:

The administration / housing units for the original portion of FMWCC are 199,212 sf and were constructed in 1997. The State Public Works Division did not manage the design and construction of the original facility.

Project No: M32 **Title:** Dishwasher Replacement (High Desert State Prison)

Description: This project will replace the dishwashers at the High Desert State Prison Culinary Building.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: HDSP **Project Mgr:** BBM

State:	493,712
Agency:	0
Federal:	0
Other:	0
Total:	493,712

Project Group: Armory, Military or Prisons	Building Area:	12,500	gsf
Project Type: Rehab	Months To Construction:	24	
Project Site: Remote	Const. Annual Inflation Rate:	4.10%	
Location: Indian Springs	Total Inflation:	8.37%	

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	46,108	50,042	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	0	0		
Structural Plan Check	0	0		
Mechanical Plan Check	956	996		
Electrical Plan Check	750	781		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	43,369	43,369		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	91,184	95,188		
Construction Costs				
Construction	318,598	345,259		Construction Cost Detail: 1 Dishwashers 140,800 2 Demolition & Installation 56,320 3 Exhaust Fan 15,500 4 Roofing 7,612 5 Electrical Modifications 7,338 <hr/> Total 227,570 Allowances: 1 Remote Site (20%) 45,514 2 Secure Facility Allowance (20%) 45,514 <hr/> Total 91,028 <hr/> Total 318,598
Construction Contingency	47,790	51,789		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	366,388	397,047		
Miscellaneous				
Advertising	1,012	1,098		
Printing	349	379		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	1,361	1,477		
Total Project Cost	458,932	493,712		

Project No: M32 **Title:** Dishwasher Replacement (High Desert State Prison)

Agency: High Desert State Prison

Location: Indian Springs

Detail Description:

The scope of this project is to replace two dishwashing machines in the Culinary Building at the High Desert State Prison.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The dishwashers have been in operation for approximately 20 years and have reached the end of their useful service life. The facility requires two fully functional dishwashing machines in order to clean and sanitize trays and culinary utensils.

Background Information:

The dishwashers were placed in operation in September of 2000 when the facility first opened. This project was also requested in 2015 and 2017.

Project No: M33 **Title:** HVAC System Renovation (Clark County Armory)

Description: This project will replace the HVAC system components and provide additional controls at the Clark County Armory.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** BBM

State: 854,733
Agency: 0
Federal: 738,072
Other: 0
Total: 1,592,806

Project Group: Armory, Military or Prisons **Building Area:** 76,062 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: North Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	113,345	123,014	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	0	0		
Structural Plan Check	2,031	2,116		
Mechanical Plan Check	3,077	3,206		
Electrical Plan Check	1,939	2,020		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	107,071	107,071		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Structural Evaluation	10,000	10,853		
Subtotal	237,462	248,279		
Construction Costs				
Construction	1,077,067	1,167,198		
Construction Contingency	161,560	175,080		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	1,238,628	1,342,277		
Miscellaneous				
Advertising	1,541	1,673		
Printing	532	577		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	2,073	2,250		
Total Project Cost	1,478,163	1,592,806		

Construction Cost Detail:

1	Fan Coil Units & Unit Heaters	129,304
2	Make-up Air Units	79,024
3	Exhaust Fans	48,276
4	Ductwork Modifications	62,111
5	Piping Modifications	143,824
6	Evaporative Cooler with Relief Hoods	59,976
7	Demolition	80,069
8	Lay-in Ceiling (1,500 sf@ \$10/sf)	15,000
9	Crane/rigging	9,950
10	Electrical Modifications	54,814
11	Temperature Controls	216,673
12	Testing & Balancing	15,500
13	Commissioning	14,325
13	Architectural Patching	12,500
14	Water Treatment	3,450
Total		944,796
Allowances:		
1	Occupied Facility (14%)	132,271
Total		132,271
Total		1,077,067

Project No: M33 **Title:** HVAC System Renovation (Clark County Armory)

Agency: Nevada Army National Guard

Location: North Las Vegas

Detail Description:

This project will replace the evaporative coolers, unit heaters, make-up air units, fan coil units and add additional temperature controls at the Clark County Armory.

This is a 50% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The fan coils and evaporative coolers are 23 years old and are nearing the end of their useful service life. The temperature controls will shut down the HVAC in areas that communicate directly with the outdoor environment to save energy in the event exterior doors are open.

Background Information:

The Clark County Armory (Floyd Edsall Training Center) is 76,062 sf and was constructed in 1997.

Project No: M34 **Title:** Office Building Renovations (Comstock Historic Office)

Description: Replace failing building materials and systems at Museum/Office lobby gallery, conference/meeting room, and offices.

Funding Summary

Department: CNR **Division:** CNR
Agency: CNR **Project Mgr:** JBC

State: 327,254
Agency: 0
Federal: 0
Other: 0
Total: 327,254

Project Group: Offices or Dorms **Building Area:** 4,000 gsf
Project Type: Remodel **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Virginia City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	25,070	27,789	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Upgrade gallery HVAC 42,000
Structural Plan Check	0	0	2 Replace Aluminum Storefront Glazing (512 sf@ \$75/sf) 38,400
Mechanical Plan Check	750	790	3 Roller Window Shades (800 sf@ \$60/sf) 48,000
Electrical Plan Check	750	790	4 Retrofit Existing Lighting (24 ea@ \$800/ea) 19,200
Civil Plan Check	0	0	5 Display Lighting (3 ea@ \$3,200/ea) 9,600
ADA Plan Check	0	0	6 Art Hanging System (48 lf@ \$200/lf) 9,600
Fire Marshal Plan Check	0	0	7 Repair & Seal Exterior Wooden Doors (2 ea@ \$4,000/ea) 8,000
Code Compliance Plan Check	0	0	8 Replace Interior Wood Doors (6 ea@ \$600/ea) 3,600
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	24,318	24,318	Total 178,400
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	50,888	53,686	
Construction Costs			
Allowances:			
Construction	214,080	236,743	1 Occupied Facility (20%) 35,680
Construction Contingency	32,112	35,511	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	246,192	272,255	Total 35,680
Miscellaneous			
Advertising	881	977	
Printing	304	337	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,185	1,313	
Total Project Cost	298,265	327,254	Total 214,080

Project No: M34 **Title:** Office Building Renovations (Comstock Historic Office)

Agency: Conservation & Natural Resources

Location: Virginia City

Detail Description:

This project will improve aspects of failing building materials and systems at the Comstock Historic District Museum/Office Building. This project includes replacing the existing storefront glazing and realigning the large exterior doors to prevent water, air, dust, and insect infiltration at the interpretive exhibit galley. In addition, roller window shades will be installed and the mechanical HVAC systems will be upgraded to improve the thermal stability and comfort of the gallery space. The existing light fixtures in the Conference/Meeting Room, Lobby, and Office will be upgraded to a more energy efficient LED light source. The project will also include the repair of exhibit lighting and art hanging system for the conference/meeting Room.

Project Justification:

The existing gaskets and glazing units have failed due to the freeze/thaw exposure and moisture infiltration within the system. The insulated glass units should be replaced and coupled with roller shade window coverings and mechanical systems upgrades in order to protect the exhibits, control energy consumption, and aid user comfort in the Interpretive Exhibit Gallery. The hinges that secure the large pair of wooden doors no longer hold the doors plumb and tight in the opening. It requires several personnel and additional mechanical means to operate the doors. The doors no longer shut completely or seal resulting in large gaps where water, air, dust, and insects can pass freely. The interior wood doors have cracked leaving visible gaps that present privacy issues at the restrooms and office doors. The existing lighting in the Lobby, Conference/Meeting Room, and office areas are metal-halide and do not allow for proper light color rendering, flexible operation, or energy efficiency. The existing lighting and walls of the Conference/Meeting Room do not allow for proper needed additional exhibit space even with the general lighting retrofit, therefore an art hanging gallery wall system and display lighting is needed.

Background Information:

The building was constructed in 2005 and is 4,000 square feet. This project was requested in the 2019 CIP.

Project No: M35 **Title:** Replace Housing Unit 4 Air Handling Units & Multipurpose Building Chiller (Warm Springs Correctional Center)

Description: Replace existing roof-mounted air handling units and associated temperature control system serving Housing Unit 4. Replace air cooled chiller, pumps, piping and associated equipment at the Multipurpose Building.

Funding Summary

State: 3,669,038
Agency: 0
Federal: 0
Other: 0
Total: 3,669,038

Department: NDOC **Division:** Correctional
Agency: WSCC **Project Mgr:** BJB

Project Group: Labs, Medical or Museums **Building Area:** 46,000 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
A/E Design & Supervision	275,400	305,272	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	24,828	27,521	
Structural Plan Check	2,582	2,719	
Mechanical Plan Check	4,456	4,691	
Electrical Plan Check	3,473	3,657	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	5,193	5,468	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	172,569	172,569	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Structural Evaluation	8,931	9,900	
Hazardous Materials Testing	2,350	2,605	
Subtotal	499,783	534,402	
Construction Costs			
Construction	2,455,933	2,715,924	Construction Cost Detail: 1 Air Handling Systems 1,135,000 2 Demo of Equipment & Piping 40,810 3 Chiller Plant Equipment 111,760 3 Package Rooftop Units 25,000 4 Exhaust Fans 14,500 5 Chiller Water Piping Systems 78,120 5 Air Distribution & Ductwork 64,000 6 Temperature Controls Modifications 457,656 7 Test, Balance, & Commission 64,000 8 Seismic Bracing & Firestopping 20,740 9 Architectural Modifications 44,000 10 Electrical Modifications 98,240 11 Fire Alarm System Modifications 28,000 12 Crane/rigging 50,840 Total 2,232,666
Construction Contingency	368,390	407,389	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	7,500	8,314	
Subtotal	2,831,822	3,131,626	
Miscellaneous			
Advertising	2,020	2,239	Allowances: 1 Secure Facility Allowance (10%) 223,267 Total 223,267 Total 2,455,933
Printing	696	772	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,716	3,010	
Total Project Cost	3,334,322	3,669,038	

Project No: M35**Title:** Replace Housing Unit 4 Air Handling Units & Multipurpose Building Chiller (Warm Springs Correctional Center)**Agency:** Warm Springs Correctional Center**Location:** Carson City

Detail Description:

This project will design and construct replacement of the existing roof-mounted heating & air conditioning units serving Housing Unit 4 and the existing air cooled chiller equipment at the Multipurpose Building. This project also includes associated piping, equipment, electrical and direct digital temperature control system modifications.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The air handling units and controls are approximately 20 years old and have reached the end of their useful life. One of the air handling units is currently being replaced by SPWD Project 19-A003 due to an equipment failure.

The chiller equipment is over 30 years old and is past the end of its useful life. The equipment contains R-22 refrigerant which cannot be manufactured in, or imported to the USA as of 1/1/2020. This project will improve energy efficiency at the facility, which will result in reduced greenhouse gas emissions. This support the intent of SB 254.

Background Information:

Housing Unit 4 is 46,000 square feet & was constructed in 1998.

The Multipurpose Building is 21,000 square feet and was constructed in 1980.

Project No: M36 **Title:** Install Sanitary Sewer Macerator (Florence McClure Women's Correctional Center)

Description: Install a prefabricated sanitary sewer macerator manhole upstream of the existing lift station at the FMWCC.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: FMWCC **Project Mgr:** BJW

State: 1,011,322
Agency: 0
Federal: 0
Other: 0
Total: 1,011,322

Project Group: Armory, Military or Prisons **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: North Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	74,919	81,310	
Surveys	7,500	7,813	
Soils Analysis	5,000	5,209	
Materials Testing Services	14,119	15,323	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	1,195	1,245	
Civil Plan Check	1,430	1,490	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	69,664	69,664	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	173,826	182,054	
Construction Costs			
Construction	663,880	719,434	
Construction Contingency	99,582	107,915	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	763,462	827,349	
Miscellaneous			
Advertising	1,315	1,427	
Printing	453	492	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,769	1,919	
Total Project Cost	939,057	1,011,322	

Construction Cost Detail:

1	Parking Lot Reconfiguration	140,000
2	Install Sanitary Sewer Macerator	253,500
3	Electrical Connections	10,500
4	Electrical Service (240 lf@ \$60/lf)	14,400
5	Temporary Access Gate & Fencing	55,800
Total		474,200
Allowances:		
1	Secure Facility Allowance (20%)	94,840
2	Occupied Facility (20%)	94,840
Total		189,680
Total		663,880

Project No: M36 **Title:** Install Sanitary Sewer Macerator (Florence McClure Women's Correctional Center)

Agency: Florence McClure Womens Correctional Center

Location: North Las Vegas

Detail Description:

The project will design and construct a sewage macerator upstream of the existing sanitary sewer lift station at the Florence McClure Women's Correctional Center (FMWCC). The project scope includes excavation, macerator installation, electrical service and connections, parking lot reconfiguration, temporary construction access gates and fencing. The temporary improvements are required to allow construction in the existing sally port and the parking reconfiguration is needed to allow large vehicles access to the sally port.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The existing lift station does not have means to prevent clogging from inappropriately flushed items and requires constant maintenance to clear clogged pipes and raw sewage overflows.

Background Information:

The FMWCC site is on 43 acres in North Las Vegas and was purchased by the State of Nevada in 2003 and constructed in 1997.

Project No: M37 **Title:** Install Surveillance Cameras (Department of Motor Vehicles, North Decatur)

Description: Install interior and exterior surveillance cameras at the North Decatur DMV.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** JKF

State: 0
Agency: 1,316,090
Federal: 0
Other: 0
Total: 1,316,090

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 23,568 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	79,154	85,906	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Interior Cameras (41 ea@ \$5,830/ea) 239,030
Structural Plan Check	0	0	2 Exterior Cameras (23 ea@ \$6,600/ea) 151,800
Mechanical Plan Check	0	0	3 Enhanced Digital Storage 150,550
Electrical Plan Check	5,676	5,913	4 Camera Cabling (4,977 lf@ \$30/lf) 149,310
Civil Plan Check	0	0	5 Viewing Software License 110,000
ADA Plan Check	0	0	6 Camera Viewing Station 5,500
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	76,780	76,780	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	161,610	168,599	Total 806,190
Allowances:			
			1 Occupied Facility (14%) 112,867
			Total 112,867
			Total 919,057
Construction Costs			
Construction	919,057	995,964	
Construction Contingency	137,858	149,395	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	1,056,915	1,145,359	
Miscellaneous			
Advertising	1,461	1,585	
Printing	504	547	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,965	2,132	
Total Project Cost	1,220,490	1,316,090	

Project No: M37 **Title:** Install Surveillance Cameras (Department of Motor Vehicles, North Decatur)

Agency: Buildings & Grounds

Location: Las Vegas

Detail Description:

This project will install IP based security cameras, including a network provision for remote monitoring and remove redundant cabling from existing analog security cameras at the North Decatur DMV. The system will network the cameras for remote viewing by staff, locally and in Carson City.

This Project is 100% Highway funded.

Project Justification:

The existing surveillance system is original to the building, image quality is very poor and is not evidence capable.

Background Information:

The North Decatur DMV Services Center is 23,568 sf and was constructed in 2006.

Project No: M38 **Title:** Replace Building 89 Chiller (Stewart Facility)

Description: Replace chiller, piping, pumps, and the temperature control system at Stewart Facility Building 89 in Carson City.

Funding Summary

Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** BJB

State: 868,598
Agency: 0
Federal: 0
Other: 0
Total: 868,598

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 0 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Stewart **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	49,509	54,879	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Chilled Water Plant Equipment 248,400
Structural Plan Check	0	0	2 Chilled Water Pumps & Piping Mods 105,500
Mechanical Plan Check	3,838	4,041	3 Demolition of Equipment & Piping 15,000
Electrical Plan Check	1,379	1,452	4 Temperature Controls Modifications 147,600
Civil Plan Check	0	0	5 Test, Balance, & Commission 34,500
ADA Plan Check	0	0	6 Electrical Modifications 14,500
Fire Marshal Plan Check	0	0	7 Crane/rigging 9,000
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	Total 574,500
PWD Project Mgmt & Inspection	48,024	48,024	
3rd Party Commissioning	0	0	Total 574,500
FF&E Design Fee	0	0	
Structural Evaluation	5,000	5,542	
Subtotal	107,750	113,938	
Construction Costs			
Construction	574,500	635,318	
Construction Contingency	86,175	95,298	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	20,000	22,169	
Subtotal	680,675	752,785	
Miscellaneous			
Advertising	1,258	1,394	
Printing	434	481	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,691	1,875	
Total Project Cost	790,117	868,598	

Project No: M38 **Title:** Replace Building 89 Chiller (Stewart Facility)

Agency: Buildings & Grounds

Location: Stewart

Detail Description:

This project will replace the air-cooled chiller, chilled water pumps, piping, piping accessories, and associated temperature controls serving the Stewart Facility, Building 89.

Project Justification:

The air-cooled chiller is over 20 years old and has reached the end of its useful life. The chiller equipment also contains R-22 refrigerant which will no longer be available in the United States starting January 1, 2020.

Background Information:

Building #89 is 17,545 square feet and was constructed in 1931.

Project No: M39 **Title:** HVAC System Renovation (Nevada State Railroad Museum)

Description: Replace unit heaters, furnace, and evaporative cooling units in the Jacobsen Interpretive Center and Restoration Shop at the Railroad Museum in Carson City.

Funding Summary	
State:	1,338,211
Agency:	0
Federal:	0
Other:	0
Total:	1,338,211

Department: T&CultAffr **Division:** MusHist
Agency: RR_Mus **Project Mgr:** TJD

Project Group: Labs, Medical or Museums	Building Area:	16,936	gsf
Project Type: Rehab	Months To Construction:	24	
Project Site: Local	Const. Annual Inflation Rate:	5.16%	
Location: Carson City	Total Inflation:	10.59%	

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	96,838	107,342	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	9,096	10,082		
Structural Plan Check	1,861	1,959		
Mechanical Plan Check	2,583	2,720		
Electrical Plan Check	1,550	1,632		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	91,344	91,344		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Structural Evaluation	6,981	7,738		
Subtotal	210,254	222,818		
Construction Costs				
Construction	861,146	952,309		Construction Cost Detail: 1 Air Handling Units 305,431 2 Furnaces & Condensing Units 143,011 3 Architectural Modifications 98,459 4 Ductwork & Air Distribution 93,078 5 Temperature Control System 82,581 6 Electrical Modifications 46,398 7 Demolition of Mechanical Systems 34,215 8 Testing, Balancing & Commissioning 31,281 9 Crane/rigging 26,692 <hr/> Total 861,146
Construction Contingency	129,172	142,846		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Hazardous Materials Abatement	12,160	13,479		
Subtotal	1,002,478	1,108,634		
Miscellaneous				
Advertising	1,429	1,584		
Printing	493	546		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Hazardous Materials Testing	4,175	4,628		
Subtotal	6,096	6,758		
Total Project Cost	1,218,828	1,338,211		

Project No: M39 **Title:** HVAC System Renovation (Nevada State Railroad Museum)

Agency: Railroad Museum

Location: Carson City

Detail Description:

This project will replace the unit heaters, furnace, and condensing unit serving the Jacobsen Interpretive Center and Restoration Shop at the Railroad Museum in Carson City. Evaporative cooling units will also be added to serve the visitors area in the Jacobsen Interpretive Center. This project also includes the addition of a temperature control system to control the new equipment.

Project Justification:

The mechanical equipment is over 25 years old and is past its useful life. Several of the unit heaters do not function and the heating capacity is inadequate for the spaces served.

The equipment contains R-22 refrigerant which cannot be manufactured in, or imported to the USA as of 1/1/2020.

Background Information:

The Jacobsen Interpretive Center is 10,536 square feet and was constructed in 1988. The Restoration Shop is 6,400 square feet and was constructed in 1980.

Project No: M40 **Title:** Temperature Controls Replacement (Southern Nevada State Veterans Home)

Description: This project will replace the temperature control system at the Veterans Home located in Boulder City.

Funding Summary

Department: NDVS **Division:** VetHome
Agency: SNSVH **Project Mgr:** BBM

State: 177,212
Agency: 0
Federal: 268,388
Other: 0
Total: 445,600

Project Group: Labs, Medical or Museums **Building Area:** 83,960 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Boulder City **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	33,705	36,581	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Direct Digital Control System 128,707
Structural Plan Check	0	0	2 System Graphics & Programming 40,595
Mechanical Plan Check	898	936	3 Electrical/wiring Modifications 43,330
Electrical Plan Check	750	781	4 Testing & Balancing 20,004
Civil Plan Check	0	0	5 Commissioning 16,891
ADA Plan Check	0	0	Total 249,527
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	Allowances:
Constructability Plan Check	0	0	1 Occupied Facility (20%) 49,905
CMAR Pre-Construction Services	0	0	Total 49,905
PWD Project Mgmt & Inspection	32,694	32,694	
3rd Party Commissioning	0	0	Total 299,432
FF&E Design Fee	0	0	
Subtotal	68,048	70,992	
Construction Costs			
Construction	299,432	324,489	
Construction Contingency	44,915	48,673	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	344,347	373,163	
Miscellaneous			
Advertising	990	1,075	
Printing	341	371	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,331	1,445	
Total Project Cost	413,727	445,600	

Project No: M40 **Title:** Temperature Controls Replacement (Southern Nevada State Veterans Home)

Agency: Southern Nevada State Veterans Home

Location: Boulder City

Detail Description:

This project will provide for the replacement of the temperature control system serving the Nevada State Veteran's Home.

This project is 65% federal funded and 35% state funded, other than project management and inspection fees which are 100% funded by the state.

Project Justification:

The existing direct digital control system is approximately 20 years old and is significantly outdated. It is no longer supported by the manufacturer in terms of hardware and software.

Background Information:

The Southern Nevada Veterans Home is 83,960 sf and was constructed in 2000.

Project No: M41 **Title:** Historic Pit House and Adobe Pueblos Repair (Lost City Museum)

Description: Assess and repair the historic pit house and adobe pueblos at the Lost City Museum.

Funding Summary

Department: T&CultAffr **Division:** MusHist
Agency: MusHist **Project Mgr:** KEN

State:	370,808
Agency:	0
Federal:	0
Other:	0
Total:	370,808

Project Group: Mech/Elect/Struct/Roofing	Building Area:	1,140	gsf
Project Type: Rehab	Months To Construction:	24	
Project Site: Remote	Const. Annual Inflation Rate:	4.10%	
Location: Overton	Total Inflation:	8.37%	

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	40,780	44,259	
Surveys	10,000	10,418	
Soils Analysis	10,000	10,418	
Materials Testing Services	2,328	2,526	
Structural Plan Check	1,452	1,513	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	27,598	27,598	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Architectural Historian	30,000	32,559	
Hazardous Materials Evaluation	5,000	5,427	
Subtotal	127,158	134,717	
Construction Costs			
Construction	171,000	185,309	
Construction Contingency	25,650	27,796	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	20,000	21,706	
Subtotal	216,650	234,812	
Miscellaneous			
Advertising	877	951	
Printing	302	328	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,179	1,279	
Total Project Cost	344,986	370,808	

Project No: M41 **Title:** Historic Pit House and Adobe Pueblos Repair (Lost City Museum)

Agency: Museums and History

Location: Overton

Detail Description:

This project will provide assessment, construction drawings, and repair of the Lost City Museum Pit House and Lost City Outdoor Exhibit to mitigate potential damage and stabilize them structurally.

Project Justification:

Without proper assessment and care, the buildings are vulnerable to collapse. A yearly maintenance project prevents their decay, but is not sufficient to assess and repair or replace structural beams.

These two outdoor exhibits are unique to southern Nevada and are the reason why many tourists visit the Museum. No other museum has exhibits that are historic in their own right. These have been interactive for many years, allowing the public to enter the structures and learn firsthand how people lived in the past. Losing the structures would be a devastating loss to Nevada history and the public.

At this time, visitors are barred entrance from these structures.

Background Information:

A site visit and observation report was performed under 19-A020 by an historic masonry consultant.

These two buildings (Lost City Museum Pit House 0268 and Lost City Outdoor Exhibit 0856) are the oldest exhibits that belong to the Division of Museums and History. They are both listed on the National Register for Historic Landmarks because of their historic significance. They were constructed in 1935 by the Civilian Conservation Corps. They have been on display for the public for 85 years.

They are constructed out of adobe bricks. Adobe is made from local clay and plant material, which are baked in the sun in a revival of Puebloan architecture. This style of construction will require a specialist for the review of structural integrity and repair of adobe structures.

Project No: M43 **Title:** Domestic Hot Water System and Transformer Replacement (Office of the Adjutant General)

Description: Replace domestic hot water system and electrical transformers at the Office of the Adjutant General building in Carson City.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** BJB

State: 472,682
Agency: 0
Federal: 407,829
Other: 0
Total: 880,511

Project Group: Armory, Military or Prisons **Building Area:** 79,738 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	61,873	68,584	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Water Heaters & Tempering Valves 222,180
Structural Plan Check	0	0	2 Electrical Transformers 139,765
Mechanical Plan Check	1,762	1,855	3 Temperature Controls Modifications 49,765
Electrical Plan Check	1,057	1,113	4 Domestic Water Piping 29,800
Civil Plan Check	0	0	5 Demolition of Equipment & Piping 29,245
ADA Plan Check	0	0	6 Gas Piping 12,940
Fire Marshal Plan Check	0	0	7 Testing & Commissioning 5,840
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	Total 489,535
PWD Project Mgmt & Inspection	60,017	60,017	Allowances:
3rd Party Commissioning	0	0	1 Occupied Facility (20%) 97,907
FF&E Design Fee	0	0	Total 97,907
Subtotal	124,709	131,569	Total 587,442
Construction Costs			
Construction	587,442	649,630	
Construction Contingency	88,116	97,445	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	675,558	747,075	
Miscellaneous			
Advertising	1,252	1,388	
Printing	432	479	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,684	1,867	
Total Project Cost	801,952	880,511	

Project No: M43 **Title:** Domestic Hot Water System and Transformer Replacement (Office of the Adjutant General)

Agency: Nevada Army National Guard

Location: Carson City

Detail Description:

This project will replace the existing domestic hot water system, which is comprised of a non-functioning solar hot water collector array, storage tanks, and heat exchanger. The new domestic hot water system will consist of stand-alone gas-fired water heaters. This project will also replace various overloaded electrical transformers throughout the building.

This is a 50% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The existing domestic hot water system cannot meet domestic hot water demand, in part, because the solar hot water portion of the system has failed. Currently, the heating hot water boilers provide all of the heating capacity for the domestic hot water needs via a heat exchanger and storage tank. On a low-temperature day, the heating hot water boilers are nearly at-capacity to maintain space temperature setpoints, which leaves little remaining capacity to heat domestic water. The new domestic hot water system will consist of stand-alone gas-fired water heaters. So, the heating hot water plant will no longer be tied to domestic hot water production.

Additionally, this project will replace electrical transformers throughout the building. The existing transformers are overloaded which results in less efficient operation, noise, and heat. The new transformers will be sized for the current building electrical loads.

Background Information:

The Lawrence E. Jacobsen Center is 79,738 sf and was constructed in 2002.

Project No: M44 **Title:** Computer Room Cooling System Upgrade (State Computer Facility)

Description: Replace the existing air conditioning equipment that serves the main server room, computer workshop, and communications equipment room at the Computer Facility in Carson City.

Funding Summary

Department: Admin **Division:** EITS
Agency: EITS **Project Mgr:** TJD

State: 0
Agency: 2,154,029
Federal: 0
Other: 0
Total: 2,154,029

Project Group: Offices or Dorms **Building Area:** 23,000 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail:
A/E Design & Supervision	143,339	158,886	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	14,179	15,717	
Structural Plan Check	2,145	2,258	
Mechanical Plan Check	3,363	3,540	
Electrical Plan Check	2,453	2,582	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	121,556	121,556	
3rd Party Commissioning	29,900	33,143	
FF&E Design Fee	0	0	
Hazardous Materials Testing	10,500	11,639	
Structural Evaluation	12,340	13,678	
Subtotal	339,774	363,001	
Construction Costs			
Construction	1,362,768	1,507,034	
Construction Contingency	204,415	226,055	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	50,000	55,423	
Subtotal	1,617,183	1,788,513	
Miscellaneous			
Advertising	1,688	1,871	
Printing	582	645	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,270	2,516	
Total Project Cost	1,959,226	2,154,029	

Project No: M44 **Title:** Computer Room Cooling System Upgrade (State Computer Facility)

Agency: Enterprise Information Technology Services

Location: Carson City

Detail Description:

This project will replace the existing air conditioning equipment that serves the main server room, computer workshop, and communications equipment room at the State Computer Facility in Carson City. This project was developed and designed as part of a 2017 CIP Project (17-P03). The project design was completed through design development. This project will continue the design process and includes construction.

Enterprise Information Technology Services (EITS) is an Internal Service fund therefore, project funding will be provided by EITS and built into the division FY24-25 budget request.

Project Justification:

The existing air conditioning equipment is more than 20 years old and has reached the end of its useful service life.

Background Information:

The State Computer Facility was originally constructed in 1970. Additions were completed in 1975 and 2007 and the facility is now approximately 23,000 square feet.

Project No: M45 **Title:** Park Facilities Maintenance & ADA Upgrades (Fort Churchill State Park)

Description: This is a continuation of the swept project 19-M53 and will construct upgrades to the park facilities plumbing, electrical, and mechanical systems as well as upgrades for ADA code compliance.

Funding Summary

Department: CNR **Division:** Parks
Agency: Parks **Project Mgr:** MCR

State: 656,774
Agency: 0
Federal: 582,827
Other: 0
Total: 1,239,601

Project Group: Labs, Medical or Museums **Building Area:** 3,259 gsf
Project Type: Remodel **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Fort Churchill **Total Inflation:** 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	38,621	42,810	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	4,575	5,071		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	73,947	73,947		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	117,143	121,828		
Construction Costs				
Construction	866,349	958,063		Construction Cost Detail: 1 Site Improvements 196,000 2 Electrical Upgrades 127,680 3 Mechanical Upgrades 118,720 4 Building Upgrades 117,645 5 ADA Restroom Upgrades 92,500 6 Plumbing Upgrades 76,160 7 Group Use Ramada Repairs 31,250 <hr/> Total 759,955 Allowances: 1 Remote Site (14%) 106,394 <hr/> Total 106,394 <hr/> Total 866,349
Construction Contingency	129,952	143,709		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	12,500	13,856		
Subtotal	1,008,801	1,115,628		
Miscellaneous				
Advertising	1,439	1,595		
Printing	496	550		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	1,935	2,145		
Total Project Cost	1,127,879	1,239,601		

Project No: M45 **Title:** Park Facilities Maintenance & ADA Upgrades (Fort Churchill State Park)

Agency: Nevada Division of State Parks

Location: Fort Churchill

Detail Description:

This project will provide updates to the building's electrical, mechanical, and plumbing systems as well as upgrades to the restrooms and site for ADA code compliance at the Fort Churchill State Park Museum/Visitor Center, Shop/Office, and Shop/Public Restroom Buildings. This project will replace much of the building's main electrical system, fire alarm systems, and telephone/data systems. The exterior concrete walking surfaces and accessible parking spaces will be replaced. This project would also renovate the group use ramada shade structure. The existing concrete slab would be replaced by a new reinforced concrete slab. The masonry and timber structure will be evaluated for compliance with current codes and will be repaired. This project is a continuation of 19-M53 which provided design through construction documents.

This project is 50% federal funded and 50% state funded, other than project management and inspection fees which are 100% funded by the state.

Project Justification:

The current museum electrical and mechanical systems are more than 20 years old and are past their useful life. The existing plumbing fixtures and flush valves are unreliable and use significantly more water than modern water-conserving fixtures. The concrete walking surfaces are cracked and are spalling and in need of replacement due to tripping hazards and non-accessible slopes. The existing restrooms and building entrances are not ADA compliant and needs replacement and or modification. The concrete slab floor of the group use ramada is settling, heaving, cracking and spalling. The slab is beyond its serviceable life and in need of replacement. The masonry and timber structure has deteriorated at the column base connections and is in need of repair.

Background Information:

The Museum/Visitor Center is 1,300 sf and was constructed in 1935. The Park Shop/Office is 1,200 sf and was constructed in 1992. The Shop/Public Restroom Building is 759 sf. There have been various improvements and repairs over the decades, the most recent being the installation of a new roof in 2013 (SPWD Project 11-S01(8H)). The group use ramada portion of the project was requested in the 2015 and 2017 CIP.

Project No: M46 **Title:** Exterior Renovation (State Capitol and Annex Building)
Description: This project is the continuation of the swept project 17-M70, design and rehabilitation of the exterior surfaces at the Capitol and Annex buildings.
Department: Admin **Division:** SPWD
Agency: B&G **Project Mgr:** ALB

Funding Summary	
State:	4,880,113
Agency:	0
Federal:	0
Other:	0
Total:	4,880,113

Project Group: Offices or Dorms	Building Area: 64,642 gsf
Project Type: Rehab	Months To Construction: 24
Project Site: Local	Const. Annual Inflation Rate: 5.16%
Location: Carson City	Total Inflation: 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	238,335	264,186	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail: 1 Repair & Repaint Exterior 993,821 2 Repair & Repaint Windows (178 ea@ \$3,248/ea) 578,144 3 Scaffolding 536,981 4 Roofing Improvements 218,000 5 Repoint Sandstone Masonry (3,000 lf@ \$67/lf) 201,000 6 Landscape Improvements 98,000 7 Clean Sandstone Masonry (43,000 sf@ \$3/sf) 129,000 8 Door Repairs 151,000 9 Repair Gutters (600 lf@ \$47/lf) 28,200 10 Vine Removal 16,354 11 Exterior Sealant 13,380 <hr/> Total 2,963,880 Allowances: 1 Occupied Facility (10%) 318,112 <hr/> Total 318,112 Total 3,281,992	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	0	0		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	162,453	162,453		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	400,787	426,639		
Construction Costs				
Construction	3,499,231	3,869,668		
Construction Contingency	524,885	580,450		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	4,024,116	4,450,119		
Miscellaneous				
Advertising	2,251	2,495		
Printing	776	860		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	3,027	3,355		
Total Project Cost	4,427,930	4,880,113		

Project No: M46 **Title:** Exterior Renovation (State Capitol and Annex Building)

Agency: Buildings & Grounds

Location: Carson City

Detail Description:

This project will construct an exterior renovation of the structure of the Capitol Building and Annex. The work that is associated with this project will consist of painting and repair of the windows and doors, the fascia and soffits and the roof balustrade. Additional work will include painting the columns, repairing the copper gutters and cleaning and re-pointing sandstone mortar joints.

Project Justification:

The Capitol balustrade is cracking and has begun to leak. The fascia and soffits, as well as the wood windows and doors have not been repaired or painted since the Capitol renovation in 1979. The copper gutter system has cracks and joint separations that need repair in order to prevent encroachment of water into the building. Mildew and environmental contaminants have discolored the sandstone surface. These surfaces should be cleaned, and the mortar joints re-pointed to avoid further deterioration and to maintain a watertight exterior to the building. This project is necessary to maintain the exterior finishes of the facility and prevent further decay.

Background Information:

This is the fourth CIP request for this project and was previously requested in 2015 and 2017 and was approved as a CIP Project No. 17-M70 however the low bid was rejected due to being overbudget. The funds were subsequently swept in the July 2020 special session (Senate Bill SB1).

The 2011 SPWD Facility Condition Analysis noted the need for the Exterior Finishes (Project Index No. 0235EXT1) and the Remove Vine Growth from Building (Project Index No. 0235SFT4) projects, which needed completion by 2014 at the Nevada State Capitol (FCA Building No. 0235). The Nevada State Capitol is a 54,778 square foot sandstone masonry building which was constructed in 1870.

The 2011 SPWD Facility Condition Analysis also noted the need for the Exterior Finishes (Project Index No. 0203EXT2) project, which needed completion by 2014 at the State Capitol Annex (FCA Building No. 0203). The State Capitol Annex is a 9,684 square foot sandstone masonry and wood frame structure with a composition roofing system on a concrete and stone foundation and was constructed in 1905.

Project No: M47 **Title:** Recondition Water Storage Tank (Carlin Readiness Center)

Description: Inspect and recondition the 246,000 gallon water storage tank at the Carlin Readiness Center.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** BJW

State: 286,576
Agency: 0
Federal: 308,212
Other: 0
Total: 594,787

Project Group: Armory, Military or Prisons **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Carlin **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	51,195	56,748	
Surveys	5,000	5,264	
Soils Analysis	0	0	
Materials Testing Services	15,362	17,028	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	750	790	
Civil Plan Check	1,018	1,071	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	40,966	40,966	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Water Tank Interior Inspection	5,000	5,542	
NDEP Review	1,500	1,663	
Water Quality Testing	5,000	5,542	
Subtotal	125,790	134,614	
Construction Costs			
Construction	360,600	398,774	
Construction Contingency	54,090	59,816	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	414,690	458,590	
Miscellaneous			
Advertising	1,062	1,177	
Printing	366	406	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,428	1,583	
Total Project Cost	541,908	594,787	

Project No: M47 **Title:** Recondition Water Storage Tank (Carlin Readiness Center)

Agency: Nevada Army National Guard

Location: Carlin

Detail Description:

This project will recondition the existing 246,000 gallon water storage tank at the Carlin Readiness Center. The project scope includes tank inspection, recoating, welding, and structural bolt tightening as required. The water storage tank will also be sanitized as recommended by the Bureau of Safe Drinking Water.

This is a 56% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The paint on this water tank is deteriorating and the interior is starting to rust in newly exposed areas. Inspection and maintenance of this facility is required to ensure safe drinking water is available to the hundreds of people who drink from this tank each year.

Background Information:

The existing water storage tank was constructed in 1998 when this facility was the Carlin Fire Science Academy. The Nevada Army National Guard purchased the Carlin Fire Science Academy under CIP Project 09-C15 Carlin Readiness Center.

Project No: M49 **Title:** Building Renovation (Las Vegas Purchasing Warehouse)

Description: This project will renovate the purchasing warehouse with a replacement roof and the addition of a fire alarm and fire sprinkler system.

Funding Summary

Department: Admin **Division:** Purchasing
Agency: Purchasing **Project Mgr:** BBM

State: 0
Agency: 969,423
Federal: 0
Other: 0
Total: 969,423

Project Group: Storage or Warehousing **Building Area:** 12,625 gsf
Project Type: Remodel **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	61,359	66,593	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Roofing Replacement (12,625 sf@ \$27/sf) 340,875
Structural Plan Check	0	0	2 Fire Alarm/sprinklers Addition 300,000
Mechanical Plan Check	0	0	Total 640,875
Electrical Plan Check	0	0	
Civil Plan Check	0	0	Total 640,875
ADA Plan Check	0	0	
Fire Marshal Plan Check	1,943	2,024	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	60,376	60,376	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Hazardous Materials Evaluation	7,500	8,140	
Subtotal	131,178	137,133	
Construction Costs			
Construction	640,875	694,504	
Construction Contingency	96,131	104,176	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	10,000	10,000	
Local Government Requirements	0	0	
Hazardous Material Abatement	20,000	21,706	
Subtotal	767,006	830,386	
Miscellaneous			
Advertising	1,305	1,416	
Printing	450	488	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,754	1,904	
Total Project Cost	899,939	969,423	

Project No: M49 **Title:** Building Renovation (Las Vegas Purchasing Warehouse)

Agency: Nevada State Purchasing

Location: Las Vegas

Detail Description:

This project will replace the roof for the purchasing warehouse located in Las Vegas. It will also add fire sprinklers and a fire alarm to the building.

Purchasing is an Internal Service fund therefore, project funding will be provided by Purchasing and built into the division FY24-25 budget request.

Project Justification:

The roof is original to the building and has failed multiple times requiring temporary repairs. A fire sprinkler system and fire alarm system are required items when performing a renovation of this magnitude.

Background Information:

The Purchasing Warehouse is approximately 12,625 sf and was constructed in 1960.

Project No: M50 **Title:** Safety Improvements (Miller Point Overlook)

Description: This project will provide safety rehabilitation of the stairs, foundations, guardrails and bridge, and installation of safety railings at overlook edge and at canyon walkways.

Funding Summary	
State:	956,755
Agency:	0
Federal:	850,487
Other:	0
Total:	1,807,241

Department: CNR **Division:** Parks
Agency: Parks **Project Mgr:** KEN

Project Group: Mech/Elect/Struct/Roofing	Building Area:	0	gsf
Project Type: Rehab	Months To Construction:	24	
Project Site: Remote	Const. Annual Inflation Rate:	4.10%	
Location: Cathedral Gorge	Total Inflation:	8.37%	

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	121,957	132,361	
Surveys	50,000	52,089	
Soils Analysis	25,000	26,044	
Materials Testing Services	15,126	16,416	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	1,847	1,924	
ADA Plan Check	3,023	3,150	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	3,993	4,160	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	106,268	106,268	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Architectural Historian	20,000	21,706	
Subtotal	347,214	364,118	
Construction Costs			
Construction	1,156,100	1,252,844	
Construction Contingency	173,415	187,927	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	1,329,515	1,440,770	
Miscellaneous			
Advertising	1,612	1,750	
Printing	556	603	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,168	2,353	
Total Project Cost	1,678,897	1,807,241	

Construction Cost Detail:		
1	Railings at Upper & Lower Canyon (5,000 lf@ \$120/lf)	600,000
2	Demolition	72,000
3	Replace Stairs & Handrails (2 ea@ \$62,500/ea)	125,000
4	Steel Coating of Metal Stairs & Guardrails (2 ea@ \$13,000/ea)	26,000
5	Rehab Metal Stair Foundations (2 ea@ \$36,000/ea)	72,000
6	Bridge with Railings (100 sf@ \$250/sf)	25,000
7	Concrete Landings (4 ea@ \$1,250/ea)	5,000
8	Solar Powered Overhead Lighting (7 ea@ \$18,000/ea)	126,000
Total		1,051,000
Allowances:		
1	Remote Site (10%)	105,100
Total		105,100
Total		1,156,100

Project No: M50 **Title:** Safety Improvements (Miller Point Overlook)

Agency: Nevada Division of State Parks

Location: Cathedral Gorge

Detail Description:

This project will provide life safety rehabilitation of the trailhead stair structures, foundations, guard rails and the bridge at the Miller Point Overlook at the Cathedral Gorge State Park. It also provides safety railings at the edges of the upper and lower canyon visitor walking trails.

This project is 50% federal funded and 50% state funded, other than project management and inspection fees which are 100% funded by the state.

Project Justification:

The steel framed trailhead stairways are the sole access point to the canyon below. Due to extreme weather conditions, the exterior coatings have eroded and the supporting foundations are degrading. These modifications will greatly improve the safety of the stairs and bridge.

Background Information:

This project was previously requested in the 2015, 2017, and 2019 CIP's.

Project No: M51 **Title:** Upgrade Wastewater System (Carlin Readiness Center)

Description: This is the continuation of project 20-A023 and will perform functional and capacity upgrades to the wastewater system at the Carlin Readiness Center.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** BJW

State: 322,196
Agency: 0
Federal: 750,000
Other: 0
Total: 1,072,196

Project Group: Armory, Military or Prisons **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Carlin **Total Inflation:** 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	29,826	33,062	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	26,188	29,028		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	70,177	70,177		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	126,191	132,267		
Construction Costs				
Construction	737,500	815,574		Construction Cost Detail: 1 Lower Lift Station Upgrades 40,000 2 Wash Pad Drainage 25,000 3 Plant Pump Down 25,000 4 Aeration System Improvements 235,000 5 Electrical 85,000 6 Headworks Improvements 115,000 7 Effluent Lift Station Upgrade 30,000 8 Bypass Pumping 70,000 <hr/> Total 625,000 Allowances: 1 Remote Site (18%) 112,500 <hr/> Total 112,500 <hr/> Total 737,500
Construction Contingency	110,625	122,336		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	848,125	937,910		
Miscellaneous				
Advertising	1,355	1,502		
Printing	467	518		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	1,822	2,020		
Total Project Cost	976,138	1,072,196		

Project No: M51 **Title:** Upgrade Wastewater System (Carlin Readiness Center)

Agency: Nevada Army National Guard

Location: Carlin

Detail Description:

The project will provide construction of upgrades to the wastewater system at the Carlin Readiness Center to allow Project Challenge to increase future use at the facility. Design is currently being provided by project 21-A023. The project scope includes a wastewater modeling study, lift station upgrades, wash pad drainage improvements, aeration system improvements, headworks improvements, effluent lift station upgrades and associated electrical improvements.

This is a 75% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The existing wastewater system is designed and permitted to handle an average daily flow rate of 20,000 gallons per day. The facility is anticipated to produce an average daily flow rate of 26,000 gallons per day when Project Challenge is in full operation. Failure to meet the permit requirements exposes the facility to administrative and judicial sanctions and potential revocation of the wastewater permit which could close the facility.

A further consideration is that the existing facility is anticipated to have difficulty meeting allowable total nitrogen levels in the effluent even in lower occupancy levels at the facility. The original system design relied upon some nitrogen treatment taking place within the fire water treatment pond system which was installed when the facility was constructed but has subsequently been removed.

Background Information:

The existing wastewater treatment system was constructed in 1998 when this facility was the Carlin Fire Science Academy. The Nevada Army National Guard purchased the Carlin Fire Science Academy under CIP Project 09-C15 Carlin Readiness Center.

Project Challenge is a program to benefit at risk youth in Nevada. The program is anticipated to accommodate up to 300 youths at the facility and significantly changes the facility use and wastewater system requirements.

Project No: M52 **Title:** HVAC System Renovation (Nevada Historical Society Building)

Description: Replace existing roof-mounted packaged gas-electric units at the Nevada Historical Society Building.

Funding Summary

Department: T&CultAffr **Division:** MusHist
Agency: HistSoc **Project Mgr:** BJB

State: 584,098
Agency: 0
Federal: 0
Other: 0
Total: 584,098

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 10,000 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Reno **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	33,693	37,348	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	4,202	4,658	1 Temperature Controls Modifications 103,590
Structural Plan Check	0	0	2 Package Rooftop Units 103,450
Mechanical Plan Check	3,251	3,422	3 Air Distribution & Ductwork 55,315
Electrical Plan Check	938	988	4 Seismic Bracing 16,520
Civil Plan Check	0	0	5 Crane/rigging 14,180
ADA Plan Check	0	0	6 Demolition of Equipment & Ductwork 10,750
Fire Marshal Plan Check	0	0	7 Testing & Commissioning 4,650
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	Total 308,455
PWD Project Mgmt & Inspection	32,682	32,682	Allowances:
3rd Party Commissioning	0	0	1 Occupied Facility (20%) 65,141
FF&E Design Fee	0	0	
Hazardous Materials Testing	1,200	1,330	Total 65,141
Subtotal	75,966	80,428	Total 373,596
Construction Costs			
Construction	390,846	432,222	
Construction Contingency	58,627	64,833	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	4,500	4,988	
Subtotal	453,973	502,043	
Miscellaneous			
Advertising	1,091	1,209	
Printing	376	417	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,467	1,626	
Total Project Cost	531,406	584,098	

Project No: M52 **Title:** HVAC System Renovation (Nevada Historical Society Building)

Agency: Historical Society

Location: Reno

Detail Description:

This project will replace five (5) rooftop packaged gas-electric units & the associated exposed ductwork on the roof of the Nevada Historical Society Building in Reno. These heating & cooling units serve the archival storage portion of the building.

Project Justification:

The existing rooftop units are more than 20 years old & have reached the end of their useful service life. The rooftop units also contain R-22 refrigerant which is no longer manufactured in, or imported to the United States. The ductwork exposed on the roof has leaks & is a source of potential water damage inside the building.

Background Information:

The archival storage portion of this building was constructed in 1981 & is approximately 10,000 square feet. One of the rooftop units may need to be relocated due to its proximity to the edge of the roof, & that relocation will require a structural evaluation during the design phase of the project.

Project No: M53 **Title:** HVAC Systems Installation (Elko Office Warehouse)

Description: Install heating and cooling system at the Department of Wildlife Warehouse Building in Elko.

Funding Summary

Department: Wildlife **Division:** Wildlife
Agency: Wildlife **Project Mgr:** TJD

State: 592,031
Agency: 0
Federal: 0
Other: 0
Total: 592,031

Project Group: Storage or Warehousing **Building Area:** 5,200 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Elko **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
A/E Design & Supervision	44,788	49,646	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	5,058	5,607	
Structural Plan Check	1,376	1,449	
Mechanical Plan Check	1,128	1,188	
Electrical Plan Check	750	790	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	43,444	43,444	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Structural Evaluation	2,870	3,181	
Architectural Evaluation	3,160	3,503	
Subtotal	102,575	108,808	
Construction Costs			
Construction	376,120	415,937	
Construction Contingency	56,418	62,390	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	432,538	478,327	
Miscellaneous			
Advertising	1,072	1,189	
Printing	370	410	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Hazardous Materials Testing	2,975	3,298	
Subtotal	4,417	4,896	
Total Project Cost	539,530	592,031	

Construction Cost Detail:

1 Unit Heaters	63,480
2 Architectural Modifications	45,678
3 Evaporative Cooling Equipment	41,400
4 Temperature Control System	37,122
5 Domestic Water Piping	31,740
6 Exhaust Fan System	24,840
7 Electrical Modifications	23,051
8 Testing, Balancing & Commissioning	18,492
9 Gas Piping	17,250
10 Crane/rigging	5,750
11 Temporary Storage	4,630
Total	313,433
Allowances:	
1 Remote Site (20%)	62,687
Total	62,687
Total	376,120

Project No: M53**Title:** HVAC Systems Installation (Elko Office Warehouse)**Agency:** Wildlife**Location:** Elko

Detail Description:

This project will install unit heaters and evaporative coolers to serve the Eastern Region Nevada Division of Wildlife Warehouse building in Elko. The project will include natural gas piping, fill and drain piping, ductwork, and related temperature controls system. This project also includes the installation of building insulation in approximately half of the building.

Project Justification:

The Warehouse building is currently unconditioned. By adding heating and cooling in this building, NDOW staff would be able to utilize the building year round to conduct their work activities. This project will provide heating, cooling, and ventilation to protect chemicals, equipment, evidence and the building infrastructure. Building insulation will be installed in about half of the building that was not insulated when constructed.

Background Information:

The Eastern Region NDOW Warehouse is 5,200 sf and was constructed in 2002.

Project No: M54 **Title:** Chilled Water Plant Renovation (Lovelock Correctional Center)

Description: Replace water-cooled chilled water plant with air-cooled plant at Lovelock Correctional Center in Lovelock.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: LCC **Project Mgr:** TJD

State: 2,532,354
Agency: 0
Federal: 0
Other: 0
Total: 2,532,354

Project Group: Armory, Military or Prisons **Building Area:** 7,400 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Lovelock **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	209,763	232,516	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	21,574	23,914	1 Chilled Water Plant Equipment 807,025
Structural Plan Check	2,269	2,389	2 Chilled Water Pumps & Piping 300,080
Mechanical Plan Check	3,673	3,867	3 Temperature Controls Modifications 218,590
Electrical Plan Check	3,004	3,163	4 Demolition of Chilled Water System 34,365
Civil Plan Check	0	0	5 Electrical Modifications 17,540
ADA Plan Check	0	0	6 Testing & Commissioning 11,455
Fire Marshal Plan Check	0	0	7 Crane/rigging 5,175
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	Total 1,394,230
PWD Project Mgmt & Inspection	136,125	136,125	Allowances:
3rd Party Commissioning	0	0	1 Remote Site (10%) 139,423
FF&E Design Fee	0	0	2 Secure Facility Allowance (10%) 139,423
Subtotal	376,409	401,974	Total 278,846
Construction Costs			
Construction	1,673,076	1,850,192	Total 1,673,076
Construction Contingency	250,961	277,529	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	1,924,037	2,127,721	
Miscellaneous			
Advertising	1,784	1,977	
Printing	615	682	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,399	2,659	
Total Project Cost	2,302,845	2,532,354	

Project No: M54 **Title:** Chilled Water Plant Renovation (Lovelock Correctional Center)

Agency: Lovelock Correctional Center

Location: Lovelock

Detail Description:

This project will replace the water-cooled chilled water central plant at Lovelock Correctional Center. This project includes replacing the existing chillers, cooling towers, pumps, piping, and related controls.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The existing chilled water central plant is approximately 15 years old. The existing chillers have suffered several compressor failures, and as a result, are costly to keep in operation. The existing chilled water plant also requires a high degree of maintenance, due to the water-cooled design.

Background Information:

Central Plant Building (Building #7) is 7,400 sf and was constructed in 1993.

Project No: M55 **Title:** Replace Surveillance System (Casa Grande Transitional Housing)

Description: This project is the continuation of the swept 19-M24 and will design and construct replacement of the interior and exterior cameras and surveillance system at Casa Grande Transitional Housing.

Funding Summary

Department: NDOC **Division:** Transitional
Agency: CGTH **Project Mgr:** JKF

State: 959,603
Agency: 0
Federal: 0
Other: 0
Total: 959,603

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 0 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	19,951	21,653	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	58,406	58,406	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	78,357	80,059	
Construction Costs			
Construction	704,200	763,129	
Construction Contingency	105,630	114,469	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	809,830	877,598	
Miscellaneous			
Advertising	1,334	1,447	
Printing	460	499	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,793	1,946	
Total Project Cost	889,981	959,603	
Construction Cost Detail:			
1	Fixed Cameras (110 ea@ \$3,310/ea)		364,100
2	Pan-tilt-zoom Cameras (20 ea@ \$4,370/ea)		87,400
3	Camera Cable & Conduit (4,155 ea@ \$17/ea)		70,635
4	Enhanced Digital Storage		65,285
5	Monitoring Station (3 ea@ \$3,120/ea)		9,360
	Total		596,780
Allowances:			
1	Occupied Facility (18%)		107,420
	Total		107,420
	Total		704,200
AE Fee Calculation:			
	A/E Design & Supervision (1.50 % @ \$1,330,084)		19,951
			19,951

Project No: M55 **Title:** Replace Surveillance System (Casa Grande Transitional Housing)

Agency: Casa Grande Transitional Housing

Location: Las Vegas

Detail Description:

This project will replace the existing non-operative surveillance system. The project will include fixed and pan-tilt-zoom cameras, and digital storage to retain images for future use. This project was designed under CIP 19-M24.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The existing system in the NDOC Administration building is not functional. The administration building houses the NDOC Director, Deputy Directors, Human Resources and the Pharmacy. These areas are at risk. This project will be coordinated with NDOC Management Information System (MIS) staff to ensure consistency with other institutions.

Background Information:

This request re-funds the construction of 19-M24 that was deferred in summer 2020. The Administrative building and the custody unit surveillance systems need to be compatible within the institution as well as within the NDOC organization, therefore the entire system needs to be replaced. The facility was built in 2005.

Project No: M56 **Title:** Central Plant Renovation (High Desert State Prison)

Description: This project is the continuation of 19-P07 and will replace the chilled and heating equipment in the central plant at the High Desert State Prison.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: HDSP **Project Mgr:** BBM

State: 10,411,861
Agency: 0
Federal: 0
Other: 0
Total: 10,411,861

Project Group: Armory, Military or Prisons **Building Area:** 10,000 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 4.10%
Location: Indian Springs **Total Inflation:** 8.37%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	243,429	264,195	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	0	0		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	307,124	307,124		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	550,554	571,319		
Construction Costs				
Construction	7,892,898	8,553,384		Construction Cost Detail: 1 Boiler Plant Equipment 3,320,280 2 Chilled Water Plant Equipment 1,201,290 3 Pumps & Piping Modifications 989,294 4 Demolition 71,553 5 Air Distribution & Ductwork 52,219 6 Fan Coils 22,080 7 Exhaust Fans 12,006 8 Temperature Controls 325,266 9 Testing, Balancing & Commissioning 26,427 10 Seismic Bracing 17,250 11 Electrical Modifications 143,750 12 Crane/rigging 46,000 13 Piping Repairs 350,000 Total 6,577,415
Construction Contingency	1,183,935	1,283,008		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	9,076,833	9,836,391		
Miscellaneous				
Advertising	2,844	3,086	Allowances: 1 Remote Site (10%) 657,742 2 Secure Facility Allowance (10%) 657,742 Total 1,315,483 Total 7,892,898	
Printing	981	1,064		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	3,824	4,151		
Total Project Cost	9,631,211	10,411,861		

Project No: M56 **Title:** Central Plant Renovation (High Desert State Prison)

Agency: High Desert State Prison

Location: Indian Springs

Detail Description:

This project will replace the existing central plant heating and cooling equipment at the High Desert State Prison. This project will include replacing the existing chillers, boilers, cooling towers, plate heat exchangers, pumps, piping, and related controls.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The existing central plant equipment is approximately 20 years old and is at the end of its useful service life. The equipment replacement will increase the system efficiency, reliability, and provide operational cost savings. This project is a continuation of project 19-P07.

Background Information:

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. The complex building(s) total approximately 900,000 square feet of space. The institution opened September 1, 2000 and is the reception unit for Southern Nevada.

Project No: M57	Title: Install Recreation Yard Fencing (Southern Desert Correctional Center and High Desert State Prison)	
Description: This project is a continuation of the swept project 19-M48 and will design and construct recreation yard cages at the Southern Desert Correctional Center and recreation yard fencing at the High Desert State Prison.		Funding Summary
Department: NDOC	Division: NDOC	State: 1,830,391
Agency: NDOC	Project Mgr: MML	Agency: 0
		Federal: 0
		Other: 0
		Total: 1,830,391

Project Group: Armory, Military or Prisons	Building Area: 0 gsf
Project Type: Rehab	Months To Construction: 24
Project Site: Remote	Const. Annual Inflation Rate: 4.10%
Location: Indian Springs	Total Inflation: 8.37%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	157,691	171,143	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded. Construction Cost Detail: 1 Expanded Metal Rec Yards (2,000 lf@ \$281/lf) 562,000 2 Expanded Metal Rec Cages (7 ea@ \$67,500/ea) 472,500 <hr/> Total 1,034,500 Allowances: 1 Remote Site (10%) 103,450 2 Secure Facility Allowance (10%) 103,450 <hr/> Total 206,900 Total 1,241,400	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	0	0		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	109,815	109,815		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	267,506	280,958		
Construction Costs				
Construction	1,241,400	1,345,282		
Construction Contingency	186,210	201,792		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	1,427,610	1,547,074		
Miscellaneous				
Advertising	1,617	1,755		
Printing	557	605		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	2,174	2,360		
Total Project Cost	1,697,290	1,830,391		

Project No: M57**Title:** Install Recreation Yard Fencing (Southern Desert Correctional Center and High Desert State Prison)**Agency:** Corrections**Location:** Indian Springs

Detail Description:

This project is a continuation of 19-M48 and will provide recreation yard cages at Housing Unit 8 at the Southern Desert Correctional Center and recreation yard fencing at the High Desert State Prison. Recreation cages will be constructed with lids and pad lock gates with cuff ports.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

There is a need to separate inmates from other inmates and prison staff at both facilities. Recreation yards and cages permit inmates to exercise outside without contacting other inmates. The number of inmates in Housing Unit 8 has increased and currently has six recreation cages.

Background Information:

High Desert State Prison is 900,000 sf and was constructed in 2000. Southern Desert Correctional Center is 480,000 sf and was constructed in 1980. The physical plant capacity of HDSP is 2016 cells and SDCC is 480 medium-custody dormitory beds and 911 cells.

Project No: M58 **Title:** Replace Locks and Controls Housing Unit 7 (Northern Nevada Correctional Center)

Description: Replace locks, control panels, distress buttons, and cell doors at Northern Nevada Correctional Center Housing Unit 7.

Funding Summary

Department: NDOC **Division:** Correctional
Agency: NNCC **Project Mgr:** JGA

State: 3,512,433
Agency: 0
Federal: 0
Other: 0
Total: 3,512,433

Project Group: Armory, Military or Prisons **Building Area:** 44,500 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Carson City **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	247,784	274,661	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	
Structural Plan Check	2,544	2,678	
Mechanical Plan Check	0	0	
Electrical Plan Check	3,416	3,596	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	5,035	5,301	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	152,350	152,350	
3rd Party Commissioning	57,850	64,125	
FF&E Design Fee	0	0	
Structural Evaluation	5,000	5,542	
Subtotal	473,979	508,254	
Construction Costs			
Construction	2,359,920	2,609,747	
Construction Contingency	353,988	391,462	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	2,713,908	3,001,209	
Miscellaneous			
Advertising	1,992	2,208	
Printing	687	762	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	2,679	2,970	
Total Project Cost	3,190,566	3,512,433	

Project No: M58 **Title:** Replace Locks and Controls Housing Unit 7 (Northern Nevada Correctional Center)

Agency: Northern Nevada Correctional Center

Location: Carson City

Detail Description:

This project will replace sally port doors, door Locks, door controls, control panels, and renovate cell doors at the Northern Nevada Correctional Center Housing Unit 7. This project will also replace distress buttons located in each cell.

If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.

Project Justification:

The existing equipment is approximately 32 years old and is at the end of its useful life. The software that runs the Housing Unit 7 locking system is pre-Windows XP software and requires a specific out-of-state technician to repair it.

Background Information:

The Housing Unit 7 is 44,500 sf and was constructed in 1990.

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Economic Development

High Priority and Critical for 2021

Project No: E01 **Title:** Loading Dock (North Las Vegas Readiness Center)

Description: Design and construct a bi-level concrete loading dock.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** KEN

State: 147,190
Agency: 0
Federal: 332,105
Other: 0
Total: 479,294

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: North Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	33,705	36,581	
Surveys	15,000	15,627	
Soils Analysis	10,000	10,418	
Materials Testing Services	6,468	7,019	1 Loading Dock (2,080 sf@ \$85/sf) 176,800
Structural Plan Check	1,299	1,354	2 Earthwork (6,552 sf@ \$5/sf) 32,760
Mechanical Plan Check	0	0	3 Paving Around Dock (3,952 sf@ \$16/sf) 63,232
Electrical Plan Check	0	0	4 Concrete Pad in Front of Dock (520 sf@ \$32/sf) 16,640
Civil Plan Check	916	954	5 Steel Framing with Bumpers 10,000
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	32,694	32,694	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	100,082	104,646	
Construction Costs			
Construction	299,432	324,489	
Construction Contingency	44,915	48,673	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	344,347	373,162	
Miscellaneous			
Advertising	1,018	1,105	
Printing	351	381	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,369	1,486	
Total Project Cost	445,798	479,294	

Project No: E01 **Title:** Loading Dock (North Las Vegas Readiness Center)

Agency: Nevada Army National Guard

Location: North Las Vegas

Detail Description:

This project will design and construct a bi-level concrete loading dock at the North Las Vegas Readiness Center.

This is a 75% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

There is a need for a loading dock to load and unload military vehicles, cargo and shipments at the North Las Vegas Readiness Center.

Background Information:

North Las Vegas Readiness Center is 68,000 sf and was constructed in 2013. It is part of the Floyd Edsall Training Center (FETC).

This project was previously requested in the 2017 and 2019 CIP.

Project No: E02 **Title:** Replace Overhead Doors, Maintenance Building (Carlin Readiness Center)

Description: Replace the existing overhead doors in the maintenance building with coiling doors.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** MJM

State: 281,940
Agency: 0
Federal: 237,208
Other: 0
Total: 519,148

Project Group: Armory, Military or Prisons **Building Area:** 0 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Carlin **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	47,248	52,373	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	4,421	4,901	1 Insulated Coiling Doors (9 ea@ \$24,655/ea) 221,895
Structural Plan Check	1,328	1,398	2 Electrical Modifications 26,560
Mechanical Plan Check	0	0	3 Selective Demolition (9 ea@ \$2,765/ea) 24,885
Electrical Plan Check	750	790	Total 273,340
Civil Plan Check	0	0	
ADA Plan Check	0	0	Allowances:
Fire Marshal Plan Check	0	0	1 Remote Site (20%) 54,668
Code Compliance Plan Check	0	0	Total 54,668
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	Total 328,008
PWD Project Mgmt & Inspection	41,021	41,021	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	94,768	100,482	
Construction Costs			
Construction	328,008	362,732	
Construction Contingency	49,201	54,410	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	377,209	417,142	
Miscellaneous			
Advertising	1,022	1,133	
Printing	352	391	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,375	1,524	
Total Project Cost	473,352	519,148	

Project No: E02 **Title:** Replace Overhead Doors, Maintenance Building (Carlin Readiness Center)

Agency: Nevada Army National Guard

Location: Carlin

Detail Description:

This project will design and replace 9 overhead glass panel doors with insulated coiling doors on Maintenance Building (Building 6- old fire station). The replacement doors will use motorized openers as recommended by the manufacturer and will be high wind/hurricane rated.

This is a 50% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The glass panel doors are not energy efficient and reduce overhead clearance. The doors are not reliable and the building needs highly reliable panels and openers. Insulated extruded aluminum slat doors have proven to be very effective to insulate in the winter and to withstand high winds that are common in the area.

Background Information:

The Elko County Readiness Center was re-assigned from the UNR Fire Science Academy to the Nevada Army National Guard (NVARNG) in the 2012. The Readiness Center building was constructed on the site as a part of the 2009 CIP, but the facility as a whole was largely left vacant. However, during those years requests for various projects have been submitted for this facility, some of which were funded in the interest of maintaining a campus that could be activated for use should the need arise. The 2019 Nevada Legislative Session authorized funding for the NVARNG Project Challenge Program. This program is expected to utilize the majority of this facility within the next several years. As a result of the continued increase of population and use there are several projects requested in this biennium that should be moved to the forefront in order to provide a safe, secure, and manageable facility for the staff and youth that will be occupying it.

Project No: E03 **Title:** Upgrade Interior Lighting (Las Vegas Readiness Center)

Description: Upgrade interior lighting, lighting controls and HVAC sequence of operations at Las Vegas Readiness Center.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** JKF

State: 292,190
Agency: 0
Federal: 666,907
Other: 0
Total: 959,097

Project Group: Armory, Military or Prisons **Building Area:** 78,744 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	68,830	74,702	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Replace Interior Lighting to LED (78,744 sf@ \$4/sf) 314,976
Structural Plan Check	0	0	2 Upgrade Interior Lighting Controls (78,744 sf@ \$3/sf) 236,232
Mechanical Plan Check	0	0	3 Electrical & HVAC Commissioning (78,744 sf@ \$1.30/sf) 102,367
Electrical Plan Check	1,176	1,226	Total 653,575
Civil Plan Check	0	0	
ADA Plan Check	0	0	Total 653,575
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	66,765	66,765	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	136,772	142,693	
Construction Costs			
Construction	653,575	708,267	
Construction Contingency	98,036	106,240	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	751,611	814,507	
Miscellaneous			
Advertising	1,300	1,410	
Printing	448	486	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,748	1,897	
Total Project Cost	890,132	959,097	

Project No: E03 **Title:** Upgrade Interior Lighting (Las Vegas Readiness Center)

Agency: Nevada Army National Guard

Location: Las Vegas

Detail Description:

This project will replace light fixtures with LED light fixtures, install ceiling mount occupancy sensors with relays that will connect to the existing building control system, provide day lighting controls, and replace existing wall mounted switches with dimming controls providing higher levels of lighting to under-lit work areas. Update the sequence of operations for the HVAC system that include occupancy controls, and program the new LED light fixtures to turn off during unoccupied times.

This is a 75% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The facilities' occupancy is approximately 20% most of the time, and this occupancy is located in the office area, leaving the remainder of the facility empty. This project will replace the existing fluorescent fixtures with high efficient LED fixtures and connect the lighting system to the existing HVAC controls system, modifying the operations of the HVAC system when the space is unoccupied.

This project will improve energy efficiency at the facility, which will result in reduced Greenhouse Gas emissions. This supports the intent of Senate Bill 254.

Background Information:

The Las Vegas Readiness Center is 78,744 sf and was constructed in 2007.

Project No: E04 **Title:** Security Fence Addition (Carlin Readiness Center)

Description: Install perimeter security fencing, gates, and access road along the perimeter of the Carlin Readiness Center.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** BJW

State: 666,080
Agency: 0
Federal: 732,758
Other: 0
Total: 1,398,837

Project Group: Mech/Elect/Struct/Roofing **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Remote **Const. Annual Inflation Rate:** 5.16%
Location: Carlin **Total Inflation:** 10.59%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	89,015	98,670	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	5,000	5,264		
Soils Analysis	0	0		
Materials Testing Services	24,399	27,046		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	1,718	1,809		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	86,345	86,345		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	206,477	219,134		
Construction Costs				
Construction	925,908	1,023,927		
Construction Contingency	138,886	153,589		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	1,064,794	1,177,516		
Miscellaneous				
Advertising	1,467	1,626		
Printing	506	561		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	1,973	2,187		
Total Project Cost	1,273,245	1,398,837		

Project No: E04 **Title:** Security Fence Addition (Carlin Readiness Center)

Agency: Nevada Army National Guard

Location: Carlin

Detail Description:

This project will design and install a perimeter security fence along the perimeter of the Carling Readiness Center. The scope of work includes clearing, grading, and dust palliative to create an access road, a chain link security fence and swing gates at key locations.

This is a 56% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

This project will provide a security perimeter at the facility to help protect youth in Project Challenge.

Background Information:

The Nevada Army National Guard purchased the Carlin Fire Science Academy under CIP Project 09-C15 Carlin Readiness Center.

Project No: E05 **Title:** Security Fencing (Floyd Edsall Training Center)

Description: Design and construct security fencing.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** KEN

State: 75,961
Agency: 0
Federal: 1,113,106
Other: 0
Total: 1,189,067

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Civil/Sitework **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: North Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	85,497	92,790	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	12,500	13,022		
Soils Analysis	5,000	5,209		
Materials Testing Services	16,295	17,685		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	1,546	1,610		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	72,321	72,321		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Drainage Study	15,000	16,280		
Subtotal	208,158	218,916		
Construction Costs				
Construction	769,000	833,351		Construction Cost Detail: 1 Security Fencing (8,200 lf@ \$55/lf) 451,000 2 Sitework (13,700 sy@ \$9/sy) 123,300 3 Culverts at Drainage Crossings (6 ea@ \$15,000/ea) 90,000 4 Dust Palliative (13,700 sy@ \$6/sy) 82,200 5 24' Swing Gate (3 ea@ \$7,500/ea) 22,500 <hr/> Total 769,000 <hr/> Total 769,000
Construction Contingency	115,350	125,003		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	9,000	9,768		
Hazardous Material Abatement	0	0		
Subtotal	893,350	968,121		
Miscellaneous				
Advertising	1,391	1,509		
Printing	480	520		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	1,870	2,030		
Total Project Cost	1,103,378	1,189,067		

Project No: E05 **Title:** Security Fencing (Floyd Edsall Training Center)

Agency: Nevada Army National Guard

Location: North Las Vegas

Detail Description:

This project will construct a security fence at the Floyd Edsall Training Center (FETC). It will run between the Floyd Edsall Training Center site located off of Range Road and the Speedway Readiness Center located off of Hollywood Boulevard. It will tie into existing fencing at each site.

The fence will be a 7 ft high chain link fence with barbed wire on top in accordance with the following drawings and specifications: Unified Facilities Criteria (UFC) 4-022-03, Detail sheet UFC 700-704 (Chain Link Fence and Details).

This is a 100% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

This fencing project is necessary to protect military property and to keep the public from accessing military training areas. This part of the Floyd Edsall Training Center parcel needs to be secured to prevent homeless encampments on Guard property.

Background Information:

There is an existing fence that extends part of the way toward the Speedway Readiness Center. It starts at the south-east corner of the Floyd Edsall Training Center site on Range Road and extends to the east. Structures at the Floyd Edsall Training Center Site on Range Road were constructed between 1997 and 2013. The Speedway Readiness Center was constructed in 2020.

Project No: E06 **Title:** Interior and Exterior Door Replacement (Clark County Armory)

Description: Remove and replace complete door systems.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** KEN

State: 724,161
Agency: 0
Federal: 624,022
Other: 0
Total: 1,348,183

Project Group: Armory, Military or Prisons **Building Area:** 0 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: North Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
Construction Cost Detail:			
A/E Design & Supervision	96,356	104,575	
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	1 Exterior Door Replacement (42 ea@ \$3,900/ea) 163,800
Structural Plan Check	0	0	2 Interior Door Replacement (145 ea@ \$3,000/ea) 435,000
Mechanical Plan Check	0	0	3 Selective Demolition (187 ea@ \$250/ea) 46,750
Electrical Plan Check	1,648	1,716	4 Architectural Repairs (187 ea@ \$200/ea) 37,400
Civil Plan Check	0	0	5 Re-connect Ext Elect Components (5 ea@ \$1,000/ea) 5,000
ADA Plan Check	2,746	2,861	6 Re-connect Int Elect Components (27 ea@ \$1,000/ea) 27,000
Fire Marshal Plan Check	0	0	7 Replace Damaged Frames 40,000
Code Compliance Plan Check	0	0	8 Ext Door with Glazing Replacement (8 ea@ \$6,000/ea) 48,000
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	93,432	93,432	Total 802,950
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	Allowances:
Hazardous Materials Survey	2,500	2,713	1 Occupied Facility (14%) 112,413
Subtotal	196,681	205,298	Total 112,413
Construction Costs			
Total 915,363			
Construction	915,363	991,961	
Construction Contingency	137,304	148,794	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	1,052,667	1,140,756	
Miscellaneous			
Advertising	1,459	1,583	
Printing	503	546	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,962	2,129	
Total Project Cost	1,251,311	1,348,183	

Project No: E06 **Title:** Interior and Exterior Door Replacement (Clark County Armory)

Agency: Nevada Army National Guard

Location: North Las Vegas

Detail Description:

This project will replace doors and accessories at exterior and interior doors at the Clark County Armory. Re-use and re-connect electronic security components consisting of card readers and alarms.

This is a 50% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

The existing door systems are worn out and lack replacement components in the building constructed in 1995. The parts for each door have worn out, including hinges, latches, closures, panic bars, strikes, center mullions, locks, deadbolts, thresholds, kick plates, coordinators, etc. Building over-use shows in 25 year old building. Paving projects have directed water into building along asphalt interfaces and therefore the door systems are failing.

The ramifications if the project is not approved are the inability to lock doors and maintain security such as personal identifiable information, use panic bars, keep water out, and inability to find spare parts. Additionally, maintaining these doors will be beyond the skill set of the maintenance personnel.

Background Information:

The Clark County Armory at the Floyd Edsall Training Center (FETC) is 76,062 sf and was constructed in 1997. This was previously requested in the 2019 CIP.

Project No: E07 **Title:** Covered Patio (Clark County Armory)

Description: Design and construct a break area patio cover.

Funding Summary

Department: Military **Division:** NArmyNG
Agency: NArmyNG **Project Mgr:** KEN

State:	149,165
Agency:	0
Federal:	127,310
Other:	0
Total:	276,475

Project Group: Armory, Military or Prisons	Building Area:	1,100	gsf
Project Type: Remodel	Months To Construction:	24	
Project Site: Local	Const. Annual Inflation Rate:	4.10%	
Location: North Las Vegas	Total Inflation:	8.37%	

	2020	2022	Remarks
Professional Services			
All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.			
A/E Design & Supervision	19,353	21,003	
Surveys	15,000	15,627	
Soils Analysis	5,000	5,209	
Materials Testing Services	1,000	1,085	
Structural Plan Check	746	777	
Mechanical Plan Check	750	781	
Electrical Plan Check	750	781	
Civil Plan Check	665	693	
ADA Plan Check	0	0	
Fire Marshal Plan Check	664	691	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	16,945	16,945	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Structural Evaluation	10,000	10,853	
Subtotal	70,873	74,447	
Construction Costs			
Construction	161,160	174,646	
Construction Contingency	24,174	26,197	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	185,334	200,843	
Miscellaneous			
Advertising	812	882	
Printing	280	304	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	1,092	1,185	
Total Project Cost	257,299	276,475	

Project No: E07 **Title:** Covered Patio (Clark County Armory)

Agency: Nevada Army National Guard

Location: North Las Vegas

Detail Description:

This project will provide a 1100 square foot shade structure. The shade structure would provide a break area for the building occupants.

This is a 50% federally funded project for eligible costs. The state funds will cover the balance of the costs and the ineligible costs for project management, inspection, plan checking, advertising, and printing.

Project Justification:

This is a cost effective way to provide a break area. Additionally, water intrusion occurs at a few of the exterior doors in the proposed area of the building and this would assist in diverting some of the water away from those exterior doors.

Background Information:

The Clark County Armory at the Floyd Edsall Training Center (FETC) is 76,062 sf and was constructed in 1997. This project was requested in the 2019 CIP.

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Statewide

High Priority and Critical for 2021

Project No: S01 **Title:** Statewide Roofing Program

Description: Roofing replacement and repairs at various buildings.

Funding Summary

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** AJL

State: 5,984,653
Agency: 0
Federal: 0
Other: 0
Total: 5,984,653

Project Group: Offices or Dorms **Building Area:** 8,931,474 gsf
Project Type: Reroof **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Statewide **Total Inflation:** 10.59%

	2020	2022	Remarks
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Professional Services		
A/E Design & Supervision	280,936	309,003
Surveys	0	0
Soils Analysis	0	0
Materials Testing Services	0	0
Structural Plan Check	0	0
Mechanical Plan Check	0	0
Electrical Plan Check	0	0
Civil Plan Check	0	0
ADA Plan Check	0	0
Fire Marshal Plan Check	0	0
Code Compliance Plan Check	0	0
Constructability Plan Check	0	0
CMAR Pre-Construction Services	0	0
PWD Project Mgmt & Inspection	622,305	622,305
3rd Party Commissioning	0	0
FF&E Design Fee	0	0
Subtotal	903,241	931,308

Construction Costs		
Construction	3,980,728	4,382,504
Construction Contingency	567,109	624,200
Green Building Equivalence	0	0
Utility/Off-Site Costs	0	0
Utility Connection Fees	0	0
Data/Telecom Wiring	0	0
Furnishings and Equipment	0	0
Roof Maint. Agreement	40,000	40,000
Local Government Requirements	0	0
Hazardous Material Abatement	2,500	2,713
Subtotal	4,590,337	5,049,417

Miscellaneous		
Advertising	2,674	2,920
Printing	922	1,007
Temporary Facilities	0	0
Agency Moving Costs	0	0
Land Purchase	0	0
Subtotal	3,596	3,927
Total Project Cost	5,497,174	5,984,653

All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.

2020 Project Cost Detail

Priority 1

1 Roofing, Ops, Cul & HU 1-5 (SCC) (7236)	485,505
2 Roofing & Siding (CC NSRM) (19170)	1,057,192
3 Roofing, Four Residences (LSP) (19423)	130,197
4 Roofing (Belrose Building) (21031)	927,867
5 Roof Access, Hatch & Ladder (NSM, LV) (7108)	63,320
6 Roofing (Spring Mountain Ranch) (7147)	288,479
7 Roofing (B&G Garage, CC) (7224)	63,571
8 Rain Gutters (Office and Shop, Elko) (7542)	55,418
9 Roofing (Indian Hills CC) (21200)	412,483
10 Roofing, Buckland (Ft. Churchill SP) (21243)	202,260
11 Roofing, Classroom and Infirmary (NYTC) (7517)	551,697
12 Roofing, HU 1 & 2 (NNCC) (19364)	1,059,184
13 Emergency Roofing Repairs (21501a)	200,000
Total Cost	5,497,174

Priority 2

14 Roofing, HU 2 (WSCC) (7110)	375,151
15 Roofing, Comfort Station 1&2 (Big Bend) (7151)	35,899
16 Roofing, Shop Building (Lahontan) (19422)	47,494
17 Roofing, Admin Bldg 1 (WSCC) (19363)	526,700
Total Cost	985,244

Project No: S01 Title: Statewide Roofing Program

Agency: State Public Works Division

Location: Statewide

Detail Description:

This project will install new roofing systems on various state buildings at:

1. Operations and Culinary, Housing Units 1-5, Stewart Conservation Camp (SCC), asphalt shingles, (7236).
2. Two Buildings, Railroad Museum, Carson City (CC) single ply and asphalt shingles, Carson City (19170).
3. Four Residences, Lahontan State Park, asphalt shingles, (19423).
4. Belrose Building, single ply, (21031).
5. Roof Access, Hatch and Ladder Replacement, Nevada State Museum (NSM), Las Vegas, (7108)
6. Visitor Center, Vera's Stables, Pump House, Sheds, Spring Mountain Ranch, wood shingles, (7147).
7. Buildings and Grounds Garage, Carson City, asphalt shingles, (7224).
8. Rain Gutters and Ice Dam Protection, Nevada Division of Forestry (NDF), Elko (7542).
9. Indian Hills Curatorial Center, Nevada State Museum (NSM) Carson City, (21200).
10. Buckland Station, Fort Churchill, asphalt shingles, (21243).
11. Classroom and Infirmary, Nevada Youth Training Center, single ply, E (7517).
12. Housing Units 1 and 2, Northern Nevada Correctional Center (NNCC), Carson City, (19364).
13. Emergency Repairs, various buildings.

Priority one projects are those that are planned to be completed within available funding. Priority two projects will be completed as project savings allows. Priority two projects are in priority order. During the course of the biennium, conditions change and project savings may be used to complete emergency repairs or priority two projects that have presented unique needs elevating the priority.

Project Justification:

The current roofing systems are beyond their useful service life. A roof replacement will ensure a water tight roofing system and protect the building interior.

Background Information:

The State Public Works Division requires that all low sloped (membrane) roofs be covered under a No Dollar Limit (NDL) Warranty. The membrane manufacturer must agree to the provisions of the NDL warranty prior to acceptance of the roof submittal. Additionally, the SPWD requires an annual inspection of all warranted roofs by the manufacturer and SPWD personnel as part of the Preventative Maintenance Agreement.

Project No: S01w **Title:** Roofing Replacement (Nevada Department of Wildlife Las Vegas Headquarters)

Description: This project is a continuation of the project 21-A003 and will replace the Nevada Department of Wildlife's (NDOW) Headquarters building roof in Las Vegas.

Funding Summary

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** AJL

State: 586,612
Agency: 130,000
Federal: 0
Other: 0
Total: 716,612

Project Group: Offices or Dorms **Building Area:** 32,000 gsf
Project Type: Reroof **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 4.10%
Location: Las Vegas **Total Inflation:** 8.37%

	2020	2022	Remarks	
Professional Services				
A/E Design & Supervision	9,876	10,718	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	0	0		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	45,218	45,218		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Subtotal	55,094	55,937		
Construction Costs				
Construction	522,000	565,681		Construction Cost Detail: 1 Membrane Installation (32,000 sf@ \$11/sf) 352,000 2 Cover Board (32,000 sf@ \$3/sf) 96,000 3 Demolition (32,000 sf@ \$1/sf) 32,000 4 Misc Components (32,000 sf@ \$1/sf) 32,000 5 Plywood Deck Replacement (5,000 sf@ \$2/sf) 10,000 <hr/> Total 522,000 <hr/> Total 522,000
Construction Contingency	78,300	84,852		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	10,000	10,000		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	610,300	660,534		
Miscellaneous				
Advertising	97	105		
Printing	33	36		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	130	142		
Total Project Cost	665,525	716,612		

Project No: S01w **Title:** Roofing Replacement (Nevada Department of Wildlife Las Vegas Headquarters)

Agency: State Public Works Division

Location: Las Vegas

Detail Description:

This project will replace the entire roof on the NDOW's Head Quarters building located in Las Vegas, NV. Due to the multiple roofs leaks repaired in the past, plywood decking will be replaced. The design will be provided by project 21-A003.

NDOW will provide \$130,000 of agency funding for this project.

Project Justification:

The current roofing system was installed in 1980. Multiple repairs have been made over the last year. A new roof is needed to protect the building interior.

Background Information:

The State Public Works Division requires that all low sloped (membrane) roofs be covered under a No Dollar Limit (NDL) Warranty developed by the SPWD staff. The membrane manufacturer must agree to the provisions of the NDL warranty prior to acceptance of the roof submittal. Additionally, the SPWD requires an annual inspection of all new roofs by the manufacturer and SPWD personnel as part of the Preventative Maintenance Agreement.

Project No: S02 **Title:** Statewide ADA Program
Description: Access as required by Title II of the Americans with Disabilities Act.

Funding Summary

State: 2,593,037
Agency: 0
Federal: 0
Other: 0
Total: 2,593,037

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** MCR

Project Group: Offices or Dorms **Building Area:** 240,783 gsf
Project Type: Remodel **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Statewide **Total Inflation:** 10.59%

	2020	2022	Remarks
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	2020	2022
Professional Services		
A/E Design & Supervision	231,907	252,978
Surveys	25,900	27,269
Soils Analysis	0	0
Materials Testing Services	20,470	22,584
Structural Plan Check	0	0
Mechanical Plan Check	3,238	3,374
Electrical Plan Check	2,019	2,103
Civil Plan Check	1,379	1,451
ADA Plan Check	4,738	4,953
Fire Marshal Plan Check	3,365	3,506
Code Compliance Plan Check	0	0
Constructability Plan Check	0	0
CMAR Pre-Construction Services	0	0
PWD Project Mgmt & Inspection	361,518	361,518
3rd Party Commissioning	0	0
FF&E Design Fee	0	0
Health Department Plan Check	3,000	3,256
Camera Pipe Inspections	9,000	9,768
Subtotal	666,534	692,759

All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.

2020 Project Cost Detail

Priority 1

1 ADA Site/Parking Upgrades (NYTC) (19232)	296,713
2 ADA Upgrades (DRC Building 1308) (7049)	617,252
3 ADA Upgrades (SNCAS Building 8 & 14) (7121)	1,126,430
4 ADA Upgrades (Stewart Campus Building 6) (7685)	269,845
5 Statewide ADA Emergency Funding (21502a)	100,000
Total Cost	2,410,240

Priority 2

6 Housing & Admin Remodel (NYTC) (19213)	1,590,068
7 ADA Route, Elko Aroboretum (NDF Elko) (7534)	419,916
8 ADA Upgrades (Lost City Museum) (19188)	49,958
9 ADA Upgrades (DRC Building 1309) (7050)	444,657
Total Cost	2,504,599

Construction Costs		
Construction	1,506,639	1,642,192
Construction Contingency	210,996	229,741
Green Building Equivalence	0	0
Utility/Off-Site Costs	0	0
Utility Connection Fees	0	0
Data/Telecom Wiring	0	0
Furnishings and Equipment	0	0
Roof Maint. Agreement	0	0
Local Government Requirements	0	0
Hazardous Material Abatement	20,600	22,357
Subtotal	1,738,235	1,894,290

Miscellaneous		
Advertising	4,068	4,453
Printing	1,403	1,536
Temporary Facilities	0	0
Agency Moving Costs	0	0
Land Purchase	0	0
Subtotal	5,471	5,989
Total Project Cost	2,410,240	2,593,037

Project No: S02 Title: Statewide ADA Program

Agency: State Public Works Division

Location: Statewide

Detail Description:

The scope of this program will provide Statewide Accessibility under Title II, program accessibility, of the Americans with Disabilities Act for the removal of barriers.

1. This project will remove and replace damaged concrete throughout the site and provide ADA accessible parking in the Administration parking area for ADA compliance.
2. This project will remodel building 1308 at Desert Regional Center to comply with the Americans with Disabilities Act Guidelines.
3. This project will remodel Building 14 and Building 8 at Southern Nevada Child & Adolescent Services campus to comply with the Americans with Disabilities Act Guidelines.
4. This project will remove and replace the existing exterior concrete ramps and stairs to Building 6 at the Stewart Campus. The work will comply with the Americans with Disabilities Act.

Priority one projects are those that are planned to be completed within available funding. Priority two projects will be completed as project savings allows. Priority two projects are in priority order. During the course of the biennium, conditions change and project savings may be used to complete emergency repairs or priority two projects that have presented unique needs elevating the priority.

Project Justification:

The Statewide ADA program is prioritized in accordance with the following decision matrix:

All Department of Justice directives are given the highest priority. Next, state agencies are given the following priority order:

Mental Health, Administration, Museums, Prisons, Parks, Wildlife and then all others based on the programs offered to the public. This priority order is based on the accessibility needs of the clientele and the programs offered at these facilities, to decrease the State's exposure to accessibility liabilities.

Background Information:

Title II of the Americans with Disabilities Act is a civil rights law and under that law all states are required to provide program access. Based on past experience with this program, these types of small multi-dimensional retrofit projects require higher than average architectural and engineering fees.

Project No: S03 **Title:** Statewide Fire and Life Safety
Description: Fire Alarm and Fire Sprinkler Systems installation and upgrades.

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** KRS

Funding Summary	
State:	2,138,164
Agency:	0
Federal:	0
Other:	0
Total:	2,138,164

Project Group: Offices or Dorms **Building Area:** 8,379,337 gsf
Project Type: Remodel **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Statewide **Total Inflation:** 10.59%

	2020	2022	Remarks
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Professional Services		
A/E Design & Supervision	171,949	186,617
Surveys	0	0
Soils Analysis	0	0
Materials Testing Services	0	0
Structural Plan Check	0	0
Mechanical Plan Check	3,360	3,500
Electrical Plan Check	2,447	2,549
Civil Plan Check	0	0
ADA Plan Check	0	0
Fire Marshal Plan Check	3,384	3,526
Code Compliance Plan Check	0	0
Constructability Plan Check	0	0
CMAR Pre-Construction Services	0	0
PWD Project Mgmt & Inspection	245,245	245,245
3rd Party Commissioning	0	0
FF&E Design Fee	0	0
Subtotal	426,385	441,437

All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.

2020 Project Cost Detail

Priority 1

1 Fire Alarm System Installation (Ely State Prison) (19370)	1,992,089
Total Cost	1,992,089

Priority 2

2 Bldg 90 Fire Protection (Stewart) (7218)	568,368
3 Replace Halon Fire Suppression System (NSLA) (21042)	206,217
4 Fire Sprinkler (NNAMHS - Maintenance) (7351)	285,216
5 Fire Alarm Replacement (DRC) (19158)	132,790
6 Fire Suppression Installation (CYC) (19225)	224,379
Total Cost	1,416,971

Construction Costs		
Construction	1,359,533	1,473,300
Construction Contingency	203,930	220,995
Green Building Equivalence	0	0
Utility/Off-Site Costs	0	0
Utility Connection Fees	0	0
Data/Telecom Wiring	0	0
Furnishings and Equipment	0	0
Roof Maint. Agreement	0	0
Local Government Requirements	0	0
Hazardous Material Abatement	0	0
Subtotal	1,563,463	1,694,295

Miscellaneous		
Advertising	1,666	1,808
Printing	575	624
Temporary Facilities	0	0
Agency Moving Costs	0	0
Land Purchase	0	0
Subtotal	2,241	2,432
Total Project Cost	1,992,089	2,138,164

Project No: S03 Title: Statewide Fire and Life Safety

Agency: State Public Works Division

Location: Statewide

Detail Description:

This project will replace the fire alarm system at Ely State Prison. The system is approaching 20 years old and has recently had system failures that shutdown the entire system. The manufacture is no longer supporting this system due to age and outdated technology.

Priority one projects are those that are planned to be completed within available funding. Priority two projects will be completed as project savings allows. Priority two projects are in priority order. During the course of the biennium, conditions change and project savings may be used to complete emergency repairs or priority two projects that have presented unique needs elevating the priority.

Project Justification:

This work is required to maintain existing fire and life safety systems.

Background Information:

SPWD uses Fire Marshal NAC 477 requirements and "Prioritization Report for Fire Protection Systems in State Owned Buildings" developed by the Fire Marshal office, Risk Management, and SPWD to maintain and upgrade existing building's fire protection systems.

Project No: S04 **Title:** Statewide Advance Planning Program

Description: Necessary studies to formulate future CIPs.

Funding Summary

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** BJW

State: 2,043,408
Agency: 0
Federal: 0
Other: 0
Total: 2,043,408

Project Group: Classrooms **Building Area:** 0 gsf
Project Type: Addition **Months To Construction:** 15
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Statewide **Total Inflation:** 6.49%

	2020	2021	Remarks	
Professional Services				
A/E Design & Supervision	200,000	213,296	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.	
Surveys	0	0		
Soils Analysis	0	0		
Materials Testing Services	0	0		
Structural Plan Check	0	0		
Mechanical Plan Check	0	0		
Electrical Plan Check	0	0		
Civil Plan Check	0	0		
ADA Plan Check	0	0		
Fire Marshal Plan Check	0	0		
Code Compliance Plan Check	0	0		
Constructability Plan Check	0	0		
CMAR Pre-Construction Services	0	0		
PWD Project Mgmt & Inspection	1,523,500	1,523,500		
3rd Party Commissioning	0	0		
FF&E Design Fee	0	0		
Information Technology Support	275,000	293,281		
Subtotal	1,998,500	2,030,077		
Construction Costs				
Construction	0	0		
Construction Contingency	0	0		
Green Building Equivalence	0	0		
Utility/Off-Site Costs	0	0		
Utility Connection Fees	0	0		
Data/Telecom Wiring	0	0		
Furnishings and Equipment	0	0		
Roof Maint. Agreement	0	0		
Local Government Requirements	0	0		
Hazardous Material Abatement	0	0		
Subtotal	0	0		
Miscellaneous				
Advertising	2,500	2,666		
Printing	10,000	10,665		
Temporary Facilities	0	0		
Agency Moving Costs	0	0		
Land Purchase	0	0		
Subtotal	12,500	13,331		
Total Project Cost	2,011,000	2,043,408		

Project No: S04 Title: Statewide Advance Planning Program

Agency: State Public Works Division

Location: Statewide

Detail Description:

Advance Planning provides funding for specific studies; greatly facilitates orderly programming, scheduling, and funding of construction projects over two or more biennia; and allows for greater in depth evaluation of proposed projects.

Advance Planning for the contracting of consultants provides funding for numerous miscellaneous planning and/or study projects for which the need only becomes apparent during the biennium, including, but not limited to, evaluations of requested projects for the subsequent Capital Improvement Program (CIP).

SPWD formulation of future CIPs is the in-house effort to define and estimate projects for the Capital Improvement program. This biennial effort is funded in this project to assure accountability for time expended. It was determined that the time spent on developing the CIP would be accumulated under this project number.

Project Justification:

Developing systematic decision making methods leads to decisions made in the State's best interest. These feasibility studies are justified by the increasing need for maintenance funding. The continuing increase in the age of state owned facilities justifies this project. With the facility floor plans and infrastructure becoming less and less efficient these planning funds are necessary. Changes in technology and the needs for "new government" also supports the justification for this statewide program.

Background Information:

The SPWD has been receiving more applications every year, in 2016 619 applications were received, in 2018 750 applications were received and in 2020 914 CIP projects were received. Historically, the SPWD received less than 400 CIP project requests. With the need for contracted planning efforts increasing, it is estimated that \$200,000 is needed for contracted professional support and \$275,000 is needed for contract information technology support in the development of the 2023 CIP.

Project No: S05 **Title:** Statewide Paving Program
Description: Design, construct and maintain pavements throughout the state.

Funding Summary

State:	2,385,478
Agency:	0
Federal:	0
Other:	0
Total:	2,385,478

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** MJM

Project Group: Civil/Sitework **Building Area:** 0 gsf
Project Type: Addition **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Statewide **Total Inflation:** 10.59%

	2020	2022	Remarks
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Professional Services		
A/E Design & Supervision	180,574	198,856
Surveys	0	0
Soils Analysis	0	0
Materials Testing Services	52,121	57,401
Structural Plan Check	0	0
Mechanical Plan Check	0	0
Electrical Plan Check	0	0
Civil Plan Check	5,883	6,167
ADA Plan Check	1,617	1,694
Fire Marshal Plan Check	0	0
Code Compliance Plan Check	0	0
Constructability Plan Check	0	0
CMAR Pre-Construction Services	0	0
PWD Project Mgmt & Inspection	353,827	353,827
3rd Party Commissioning	0	0
FF&E Design Fee	0	0
Subtotal	594,022	617,945

Construction Costs		
Construction	1,398,480	1,535,589
Construction Contingency	202,272	222,044
Green Building Equivalence	0	0
Utility/Off-Site Costs	0	0
Utility Connection Fees	0	0
Data/Telecom Wiring	0	0
Furnishings and Equipment	0	0
Roof Maint. Agreement	0	0
Local Government Requirements	0	0
Hazardous Material Abatement	0	0
Subtotal	1,600,752	1,757,633

Miscellaneous		
Advertising	6,700	7,361
Printing	2,310	2,538
Temporary Facilities	0	0
Agency Moving Costs	0	0
Land Purchase	0	0
Subtotal	9,011	9,900
Total Project Cost	2,203,785	2,385,478

All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.

2020 Project Cost Detail

Priority 1

1 Caliente Youth Center (Slurry) (7428)	275,398
2 RR Museum, Boulder City (Slurry) (7712)	86,480
3 Stewart Facility Roads (Slurry) (7217)	446,176
4 Southern NV Veterans Cemetery (Slurry) (7620)	286,825
5 Northern NV Veterans Cemetery (Slurry) (7636b)	291,022
6 NNV Adult Mental Health Bldg 8 (Slurry) (21122)	110,797
7 NDF, East Lake (Slurry) (7547a)	69,781
8 Nevada Youth Training Center (Slurry) (7510)	471,189
9 Las Vegas Agriculture (Slurry) (19008)	116,116
10 Emergency Repairs (21505a)	50,000

Total Cost 2,203,785

Priority 2

11 Desert Regional Center (Slurry) (7054)	161,424
12 Blasdel Parking Lot (Slurry) (21041)	334,897
13 Sierra Front Dispatch Tarmac (Slurry) (7546)	125,896
14 N NV Adult Mental Health (Slurry) (7348)	560,467
15 Sparks Agriculture (Slurry) (21271)	114,636
16 Transverse Drive (Rehab) (7393)	785,977
17 Little Washoe Lake (Slurry) (21229)	61,401

Total Cost 2,144,698

Project No: S05 Title: Statewide Paving Program

Agency: State Public Works Division

Location: Statewide

Detail Description:

This project will provide for statewide slurry seal, rehabilitation and new paving.

Projects noted as "Slurry" consist of crack sealing, surface sealing and restriping, and may also include patching and repairs. All projects other than the "Emergency Repair" line item in this request are primarily slurry. Projects noted as "Rehab" consist of pulverization and repaving, overlays, and may also include associated utility adjustments or concrete work. The top five projects on the list were projects that were previously approved in the 2019 Statewide Paving Program, but had to be canceled prior to completion due to the budget shortfall and the funding sweep implemented by SB1.

The State has an interest in providing electric vehicle charging stations (EVCS) at facilities where the public can easily access them. Projects in this request that lend themselves to this have had the estimated cost for underground conduit installation added to the project cost estimate. The projects in the priority one recommendation for the program that have this included in the estimate are project number 7217 (Stewart Facility) and 19008 (Agriculture Facility, Las Vegas).

Emergency repair funds will be used to patch potholes, re-stripe parking lots where the striping has faded that are not in the current program for sealing, replace faded and hard to read parking lot signage, fill large cracks that have created tripping hazards, and replace or re-install broken or displaced parking blocks.

Priority one projects are those that are planned to be completed within available funding. Priority two projects will be completed as project savings allows. Priority two projects are in priority order. During the course of the biennium, conditions change and project savings may be used to complete emergency repairs or priority two projects that have presented unique needs elevating the priority.

Project Justification:

The purpose of this Statewide Paving Program is to optimize paving life cycle costs, extend the pavement longevity and maintain safe paving surfaces for employees and the public. Crack seal and slurry seal is a preferred method of meeting these goals. This program will also address pavement that is in need of repair. If the pavement has deteriorated to the point it cannot be repaired, then reconstruction (rehabilitation) is the recommended solution. New paving construction projects are also considered to be within the scope of this statewide program. The projects within the program may also construct paving improvements to bring facilities into compliance with ADA and code requirements.

Background Information:

The goal of this program is to bring the paved parking areas and access roads to an adequate service level and perform economical cyclical maintenance rather than premature pavement replacement.

Project No: S06 **Title:** Statewide Indoor Air Quality - Environmental Program

Description: Mitigation of asbestos, lead, mold, water quality, and indoor air quality issues.

Funding Summary

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** KRS

State: 1,293,791
Agency: 100,000
Federal: 0
Other: 0
Total: 1,393,791

Project Group: Offices or Dorms

Building Area: 1,429,596 gsf

Project Type: Rehab

Months To Construction: 24

Project Site: Local

Const. Annual Inflation Rate: 5.16%

Location: Statewide

Total Inflation: 10.59%

	2020	2022	Remarks
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Professional Services

A/E Design & Supervision	81,344	89,765
Surveys	0	0
Soils Analysis	0	0
Materials Testing Services	1,380	1,530
Structural Plan Check	0	0
Mechanical Plan Check	0	0
Electrical Plan Check	1,515	1,595
Civil Plan Check	627	660
ADA Plan Check	0	0
Fire Marshal Plan Check	0	0
Code Compliance Plan Check	0	0
Constructability Plan Check	0	0
CMAR Pre-Construction Services	0	0
PWD Project Mgmt & Inspection	155,712	155,712
3rd Party Commissioning	0	0
FF&E Design Fee	0	0
Hazardous Materials Evaluation	138,279	152,113
Subtotal	378,857	401,374

All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.

2020 Project Cost Detail

Priority 1

1	Emergency Mitigation - Risk Management (21506a)	100,000
2	Asbestos, Mold & Lead Paint Surveys (21506b)	50,000
3	Air Quality & Vapor Barrier (Stewart) (21039)	431,905
4	Environmental Remediation (Ash Canyon) (21040)	184,666
5	Flooring & Asbestos (NNCAS) (21123)	435,123
6	Asbestos Survey (Caliente Youth Center) (19226)	84,085
	Total Cost	1,285,778

Construction Costs

Construction	771,825	842,946
Construction Contingency	100,774	111,442
Green Building Equivalence	0	0
Utility/Off-Site Costs	0	0
Utility Connection Fees	0	0
Data/Telecom Wiring	0	0
Furnishings and Equipment	0	0
Roof Maint. Agreement	0	0
Local Government Requirements	0	0
Hazardous Material Abatement	30,000	33,254
Subtotal	902,598	987,642

Miscellaneous

Advertising	3,214	3,551
Printing	1,108	1,224
Temporary Facilities	0	0
Agency Moving Costs	0	0
Land Purchase	0	0
Subtotal	4,323	4,775

Total Project Cost 1,285,778 1,393,791

Project No: S06 Title: Statewide Indoor Air Quality - Environmental Program

Agency: State Public Works Division

Location: Statewide

Detail Description:

This project will address environmental issues at State-owned and leased buildings. The primary environmental issues are asbestos, indoor air quality (IAQ), lead paint, and mold. The US Environmental Protection Agency (EPA) and Occupational & Health Administration (OSHA) agencies require a building owner to address all known or suspected health concerns.

1. This project will investigate active health & safety and environmental issues in State Owned and Leased Buildings. The funding for this project is provided by Risk Management.
2. This project will address unanticipated health & safety and environmental issues in State Owned buildings.
3. This project will address environmental concerns identified in seven occupied buildings crawl spaces at the Stewart Facility. The work includes environmental abatement and installation of plastic vapor barriers in the building crawl spaces.
4. This project will remediate the animal infestation and convert the former Ash Canyon Water Treatment Building into a usable storage facility for B&G equipment and materials.
5. This project will abate asbestos flooring, remove deteriorated non-asbestos flooring, and replace in Northern Nevada Adult Mental Health Services Buildings 8A and 8N.
6. This project will conduct a campus wide update of the Asbestos Hazard Emergency Response Act (AHERA) Asbestos Survey for the Caliente Youth Center.

Agency funding is provided by the Risk Management Division.

Project Justification:

This program has approximately 2,600 State-owned buildings. Environmental issues occur during the normal operation of the buildings and must be addressed once they are identified.

Background Information:

There are approximately 2,600 state-owned buildings. This does not include Legislative, NDOT or NSHE buildings. Buildings & Grounds leases 320 buildings for additional agency office space.

Project No: S08 **Title:** Statewide Energy Efficiency Program

Description: Energy retrofit projects throughout the state.

Funding Summary

State:	9,389,819
Agency:	0
Federal:	0
Other:	0
Total:	9,389,819

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** BJW

Project Group: Armory, Military or Prisons **Building Area:** 101,328 gsf
Project Type: Rehab **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Statewide **Total Inflation:** 10.59%

	2020	2022	Remarks
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Professional Services		
A/E Design & Supervision	565,677	621,148
Surveys	0	0
Soils Analysis	0	0
Materials Testing Services	0	0
Structural Plan Check	0	0
Mechanical Plan Check	0	0
Electrical Plan Check	19,312	20,273
Civil Plan Check	0	0
ADA Plan Check	0	0
Fire Marshal Plan Check	0	0
Code Compliance Plan Check	0	0
Constructability Plan Check	0	0
CMAR Pre-Construction Services	0	0
PWD Project Mgmt & Inspection	503,774	503,774
3rd Party Commissioning	0	0
FF&E Design Fee	0	0
Subtotal	1,088,762	1,145,195

All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.

2020 Project Cost Detail

Priority 1

1	Replace High Mast Lighting (ESP) (7165)	1,569,237
2	Replace High Mast Lighting (NNCC) (7312)	1,087,276
3	Replace High Mast Lighting (WSCC) (19334)	658,886
4	Replace High Mast Lighting (LCC) (19360)	1,282,883
5	Replace High Mast Lighting (HDSP) (21061)	2,578,768
6	Replace Interior Lighting (NYTC) (7500)	1,440,380
Total Cost		8,617,430

Construction Costs		
Construction	6,514,285	7,133,438
Construction Contingency	977,143	1,070,016
Green Building Equivalence	0	0
Utility/Off-Site Costs	0	0
Utility Connection Fees	0	0
Data/Telecom Wiring	0	0
Furnishings and Equipment	0	0
Roof Maint. Agreement	0	0
Local Government Requirements	0	0
Hazardous Material Abatement	25,000	27,712
Subtotal	7,516,428	8,231,165

Miscellaneous		
Advertising	9,101	10,008
Printing	3,138	3,451
Temporary Facilities	0	0
Agency Moving Costs	0	0
Land Purchase	0	0
Subtotal	12,240	13,459
Total Project Cost	8,617,430	9,389,819

Project No: S08 Title: Statewide Energy Efficiency Program

Agency: State Public Works Division

Location: Statewide

Detail Description:

This project will perform the following energy efficiency projects at various locations:

1. Replace High Mast Lighting (Ely State Prison) (7165). This project will replace the fixture cabling system and high mast lighting fixtures with LED lighting fixtures at Ely State Prison. Lowering operators have failed in the up position requiring scissor lift rental to access fixtures for repair and maintenance. The existing lighting fixtures and pole components are over 30 years old and at the end of their useful life. If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.
2. Replace High Mast Lighting (Northern Nevada Correctional Center) (7312). This project will replace the high mast lighting fixtures with LED lighting fixtures and will also replace the cables and operators for the existing poles at the Northern Nevada Correctional Center. If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.
3. Replace High Mast Lighting (Warm Springs Correctional Center) (19334). This project will replace the high mast lighting fixtures with LED lighting fixtures and will also replace the cables and operators for the existing poles at the Warm Springs Correctional Center. If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.
4. High-Mast Lighting (Lovelock Correctional Center) (19360). Installation of LED fixtures and operators will reduce energy and maintenance costs. Lowering operators have failed in the up position requiring scissor lift rental to access fixtures for repair and maintenance. The existing lighting fixtures and pole components are approximately 26 years old and at the end of their useful life. If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.
5. Replace High Mast Lighting (High Desert State Prison) (21061). This project will replace the fixture cabling system and high mast lighting fixtures with LED lighting fixtures at High Desert State Prison. Lowering operators have failed in the up position requiring scissor lift rental to access fixtures for repair and maintenance. The existing lighting fixtures and pole components are approximately 20 years old and at the end of their useful life. If this project requires custody escort services, then this expense will need to be included in the Nevada Department of Corrections' operating budget.
6. Replace Interior Lighting (Nevada Youth Training Center) (7500). This project will replace interior lighting & lamps with LED lighting and lighting controls in the Administration, Classroom/Infirmary, Multi-Purpose, Warehouse, Gymnasium, Industrial/Vocational buildings, and eight cottages at the Nevada Youth Training Center.

Project Justification:

This project will improve energy efficiency at these facilities, which will result in reduced Greenhouse Gas emissions. This supports the intent of Senate Bill 254.

1. Replace High Mast Lighting (Ely State Prison) (7165). The existing light fixtures are high pressure sodium (orange light) and are original to the facility. The light fixtures are at the end of their life and should be replaced with an energy efficient fixture. With the replacement fixtures, the facility will have reduced maintenance for the LED fixtures, better light distribution, better quality of light (white light) and energy savings.
2. Replace High Mast Lighting (Northern Nevada Correctional Center) (7312). Installation of new LED fixtures and operators will reduce energy and maintenance costs. The existing lighting fixtures and pole components are approximately 10 to 26 years old and are at the end of their useful life.
3. Replace High Mast Lighting (Warm Springs Correctional Center) (19334). Installation of new LED fixtures and operators will reduce energy and maintenance costs. The existing lighting fixtures and pole components are approximately 24 years old and are at the end of their useful life.
4. High-Mast Lighting (Lovelock Correctional Center) (19360). Installation of LED fixtures and operators will reduce energy and maintenance costs. Lowering operators have failed in the up position requiring scissor lift rental to access fixtures for repair and maintenance. The existing lighting fixtures and pole components are approximately 26 years old and at the end of their useful life.
5. Replace High Mast Lighting (High Desert State Prison) (21061). The existing light fixtures are high pressure

Project No: S08 Title: Statewide Energy Efficiency Program

Agency: State Public Works Division

Location: Statewide

sodium (orange light) and are original to the facility. The light fixtures are at the end of their life and should be replaced with an energy efficient fixture. With the replacement fixtures, the facility will have reduced maintenance for the LED fixtures, better light distribution, better quality of light (white light) and energy savings.

6. Replace Interior Lighting (Nevada Youth Training Center) (7500). The interior lighting fixtures on campus are approximately 50 years old, inefficient and at the end of their useful life.

Background Information:

1. Replace High Mast Lighting (Ely State Prison) (7165). The prison yard is approximately 52 acres and was constructed in 1984.

The Housing Unit #1 is 29,870 sf and was constructed in 1987.

2. Replace High Mast Lighting (Northern Nevada Correctional Center) (7312). The Northern Nevada Correctional Center Site was originally developed in 1963 and houses approximately 1500 inmates.

3. Replace High Mast Lighting (Warm Springs Correctional Center) (19334). The Warm Springs Corrections Center (WSSC) was a women's prison until September 1997 when it was converted to a medium security men's prison. The institution has been remodeled and expanded four times over the past 39 years.

4. High-Mast Lighting (Lovelock Correctional Center) (19360). Lovelock Correctional Center was built in 1992.

5. Replace High Mast Lighting (High Desert State Prison) (21061). The Housing Units 1 through 4 are 44,500 sf and was constructed in 2000. The newest Housing Unit 9 through 12 are 52,096 sf and was constructed in 2008. Some of the existing fixtures date back to 2000, and the newest fixtures were installed in 2008.

6. Replace Interior Lighting (Nevada Youth Training Center) (7500). The Administration is 3,847 sf and was constructed in 1962. The Multipurpose, Dining & Culinary is 15,856 sf and was constructed in 1962. The Gymnasium is 15,316 sf and was constructed in 1976. The Industrial/Vocational is 11,264 sf and was constructed in 1966. The Classrooms & Infirmary is 20,590 sf and was constructed in 1972. The Adventurer Cottage is 3,990 sf and was constructed in 1966. The Pioneer Cottage #5 is 3,847 sf and was constructed in 1964. The Frontier Cottage #6 is 3,990 sf and was constructed in 1966. The Indian Cottage #4 is 3,847 sf and was constructed in 1962. The Explorer R & C Cottage #3 is 3,847 sf and was constructed in 1962. The Mountaineer Cottage #2 is 3,847 sf and was constructed in 1962. The Forester Cottage #1 is 3,847 sf and was constructed in 1964.

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Project No: S09 **Title:** Statewide Building Official Program

Description: Continue to allow the SPWD to accept fees for projects not authorized in the CIP as required to pay for contracted plan review and inspection services on those projects.

Funding Summary

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** BJW

State: 0
Agency: 2,275,000
Federal: 0
Other: 0
Total: 2,275,000

Project Group: Classrooms **Building Area:** 0 gsf
Project Type: Addition **Months To Construction:** 24
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Statewide **Total Inflation:** 10.59%

	2020	2022	Remarks
Professional Services			
A/E Design & Supervision	0	0	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	0	0	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Permit Fees	2,275,000	2,275,000	
Subtotal	2,275,000	2,275,000	
Construction Costs			
Construction	0	0	
Construction Contingency	0	0	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Subtotal	0	0	
Miscellaneous			
Advertising	0	0	
Printing	0	0	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	0	0	
Total Project Cost	2,275,000	2,275,000	

Project No: S09 **Title:** Statewide Building Official Program

Agency: State Public Works Division

Location: Statewide

Detail Description:

NRS 341 requires the State Public Works Division to be the building official for building projects on State land or funded with State money. Some building projects requiring SPWD building official oversight are not included in the CIP program. This project will allow the SPWD to accept fees for those non-CIP projects and use the fees to pay for contracted plan review and inspection services on those non-CIP projects. Each project will be accounted for in a separate category in the accounting system.

Excess funds from this program and previous building official activities can be used for any 1562 budgeted activity.

This project is funded 100% from agency fees for non-CIP projects, (i.e., Agency Projects).

Project Justification:

This project will provide the necessary means to efficiently administer building official projects.

Background Information:

In the past, the SPWD tracked these projects in a database and paid plan check fees for these projects out of budget account 1562. That system was cumbersome, inefficient, and prone to mistakes. Since the 2007 CIP, the Governor and Legislature have authorized the current method in Project S09 which is efficient and effective.

Project No: S11 **Title:** Statewide Energy Infrastructure and Economic Development Program

Description: Statewide energy infrastructure improvements and economic development.

Funding Summary

Department: Admin **Division:** SPWD
Agency: SPWD **Project Mgr:** BJW

State: 75,000,000
Agency: 0
Federal: 0
Other: 0
Total: 75,000,000

Project Group: Offices or Dorms **Building Area:** 0 gsf
Project Type: New **Months To Construction:** 0
Project Site: Local **Const. Annual Inflation Rate:** 5.16%
Location: Statewide **Total Inflation:** 0.00%

	2020	2020	Remarks
Professional Services			
A/E Design & Supervision	0	0	All costs are estimated based upon 2020 information. During project implementation, funds will be shifted between categories as necessitated by actual costs. The total budget will not be exceeded.
Surveys	0	0	
Soils Analysis	0	0	
Materials Testing Services	0	0	
Structural Plan Check	0	0	
Mechanical Plan Check	0	0	
Electrical Plan Check	0	0	
Civil Plan Check	0	0	
ADA Plan Check	0	0	
Fire Marshal Plan Check	0	0	
Code Compliance Plan Check	0	0	
Constructability Plan Check	0	0	
CMAR Pre-Construction Services	0	0	
PWD Project Mgmt & Inspection	0	0	
3rd Party Commissioning	0	0	
FF&E Design Fee	0	0	
Subtotal	0	0	
Construction Costs			
Construction	0	0	
Construction Contingency	0	0	
Green Building Equivalence	0	0	
Utility/Off-Site Costs	0	0	
Utility Connection Fees	0	0	
Data/Telecom Wiring	0	0	
Furnishings and Equipment	0	0	
Roof Maint. Agreement	0	0	
Local Government Requirements	0	0	
Hazardous Material Abatement	0	0	
Governors Recommended Funding	75,000,000	75,000,000	
Subtotal	75,000,000	75,000,000	
Miscellaneous			
Advertising	0	0	
Printing	0	0	
Temporary Facilities	0	0	
Agency Moving Costs	0	0	
Land Purchase	0	0	
Subtotal	0	0	
Total Project Cost	75,000,000	75,000,000	

Project No: S11 **Title:** Statewide Energy Infrastructure and Economic Development Program

Agency: State Public Works Division

Location: Statewide

Detail Description:

Project Justification:

Background Information: