

Zoological Department

2016

Rank	Sub-Project	Total Cost	Non-County Funding	County Funding	Project Description
1	WZ11901-Adventure Africa: Elephant Exhibit	\$1,774,000	\$887,000	\$887,000	<p>An appropriation of \$1,774,000 is requested to continue the work on a new Elephant Exhibit and Barn in the Adventure Africa Exhibit area which is designed to include several other exhibits planned for far in the future. Financing is requested from \$887,000 in general obligation bonds and \$887,000 in private contributions. To meet AZA accreditation standards for maintaining elephants at the Zoo, a new elephant facility is required by 2018. This will be one of the premiere animal exhibits at the Zoo and will feature exhibit areas and habitat for a minimum of three African elephants including males. The total cost of the project is estimated at \$16,000,000 with the Zoological Society contributing 50% or \$8,000,000. Work on the project has begun in 2015. To meet the accreditation standards schedule, work needs to continue in 2016, with ground breaking by the end of the year.</p>
2	WZ11401-Zoo Life Support Emergency Generators	\$318,448	\$0	\$318,448	<p>Continuous electrical power is critical in maintaining life support for the animal collection. Life support systems include light, heat, air conditioning, water filtration, hydraulic systems, alarm systems, food storage and water systems. The Zoo is requesting to install permanent electrical generators in five animal areas to maintain power to life-critical systems in the event of a power outage in the following animal locations: Aviary/Flamingo, Apes/Primates/Macaque Island, Aquatic and Reptile Center, Small Mammals and Big Cat County/Winter Quarters/pachyderm East/West Giraffe. The 2016 funding is to address the need at Aviary/Flamingo.</p>

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3	WZ13501-Aquatic & Reptile Center Structural Integrity	\$349,000	\$0	\$349,000	<p>The concrete foundations beneath many exhibits, but specifically the Piranha and Mangrove exhibits, are cracked and the structural integrity is questionable. All exhibits need to be evaluated for structural integrity and many pools need to be repaired to stop water leaks that are contributing to the structural decline.</p>
4	WZ16301-Aquatic & Reptile Center Heating	\$102,000	\$0	\$102,000	<p>The underfloor heating systems for reptile enclosures are dysfunctional and cannot be repaired and require replacement including underfloor heating for the tortoise enclosures.</p> <p>The Aquarium and Reptile Building was opened in 1966. When the building opened the west side of the building had approximately thirteen displays for snakes and reptiles. Under each display, embedded in concrete were electric heating rods. These rods supplied additional heating to the displays that are required for the snakes and reptiles. Over the years when the rods failed, the rods were replaced with new heating rods, on rare occasions the rods would fail in such a way that the rod could no longer be removed or replaced. Approximately 50% of the heating rods are no longer functioning. This creates hot and cold spots which are not good for animals.</p>

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5	WZ15101-Aviary Boiler Replacement	\$291,000	\$0	\$291,000	An appropriation of \$291,000 is requested to replace the boiler system in the Aviary Building. This project would include replacement of the three boilers in the Aviary, and all necessary electric, plumbing, air intake, exhaust gas piping, and monitoring and controls by "Metasys". This work would need to be done during the summer months with the boilers are out of service. The three boilers were installed in 1994. The environmental conditions in the boiler room are very harsh. This boiler room is moist compared to other Zoo boiler rooms. During the yearly boiler inspections, these three boilers were rated in the poorest condition. During most of the heating season, two boilers are running continuously and a third boiler is needed when temperatures drop into the single digits.
6	WZ16101-Aquatic & Reptile Center Ozone & Chiller System	\$200,000	\$0	\$200,000	The major ARC exhibit and some of its life-support systems are 45 years old, and the newest major life-support systems are 20 years old. The ozone water-sterilization system needs to be replaced along with some heat exchangers and valves for the Chiller system. The ARC Ozone System for 23,000 gallons of saltwater for the Pacific Coast exhibit is dysfunctional and needs replacement and the heat exchangers can no longer be repaired.

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7	WZ15005-Point-of-Sale Replacement	\$469,516	\$0	\$469,516	<p>The Wisconsin Department of Transportation (WisDOT) has been authorized to reconstruct the Zoo Freeway Interchange. The interchange project has negatively impacted the Zoo's grounds, facilities and operations. The WisDOT acquired the Zoo's easternmost parking lot that had a capacity of 700 cars, driveways and parking associated with the Zoofari Conference Center as well as the Zoo's entrance/exit drive. Land sale negotiations between the WisDOT and the County were unsuccessful and the WisDOT acquired the Zoo property by eminent domain and awarded the Zoo \$8.5 million. The County is appealing the award. File No. 14-449 authorized the Zoo to use the awarded funds to implement a remediation plan for the loss of parking. In order to replace the lost parking and provide a visitor experience similar to the main entrance, the Zoo is constructing a new parking lot and entrance on the Bliffert property and also adding an Otter Exhibit.</p> <p>The new entrance will require the Zoo to expand its point-of-sale (POS) system to process a high volume of transactions to eliminate traffic congestion on Bluemound Road and the Zoo Interchange. The current system is performing at its maximum and cannot not successfully cover the new entrance nor integrate with the needed technology of the new entrance (i.e. turnstiles). Full operation of the parking lot and entrance is scheduled to open by Memorial Day of 2016, which will require the purchase and implementation of a new system in January of 2016. Zoo staff are preparing a Request for Proposal to be issued in August with the plan of having a contract signed by the end of 2015 for a new POS system.</p> <p>In May of 2015, the Zoo submitted a Request for Information for a replacement POS system including the operation of the new west entrance. Based on the information that was received, it is projected that a replacement system will cost \$1,108,433. The Zoo currently has \$638,917 earmarked for a new POS from the \$8.5 million that was received from the WisDOT. The Zoo is requesting \$469,516 in general obligation bonds to complete the POS project.</p> <p>The County is suing the State for additional funds because the award did not cover the full value of the land nor did it provide the funds necessary to complete the entire remediation project. If the County is successful, the new award can reimburse or payoff the POS system general obligation bonds.</p>

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8	WZ16201-Aquatic Reptile Center Flooded Forest & African Lakes Exh Renov	\$68,200	\$0	\$68,200	An appropriation of \$68,200 is requested to repair significant leaks in the Pacu (Flooded Forest) Exhibit and the African lakes exhibits. The leaks have caused significant decay in the concrete walls and supports under these exhibits need to be repaired. The leak(s) in the Pacu exhibit require Zoo staff to reduce the water level of the exhibit to reduce the loss rate. Major portions of the concrete support walls have now cracked and rusted rebar is exposed. At the African Lakes exhibit water is leaking from the rear of the exhibit and structural changes are beginning to appear.
9	WZ10705-Bear Service Areas-Himalayan Black Bear	\$213,000	\$0	\$213,000	<p>An appropriation of \$213,000 is requested for the Himalayan Black Bear service area.</p> <p>The 2013 Capital Budget provided funds as the initial phase to renovate five Zoo bear service areas (American Black Bear, Polar Bear, Grizzly Bear, Brown Bear and Himalayan Black Bear) and planning and design for the second phase. Additional funding was included in the 2014 and 2015 capital budgets for the bear areas. Funding in 2016 will be used to complete the final bear service area.</p> <p>The bear service areas and bear dens at the Zoo were constructed 50 years ago. Extensive upgrades are necessary to maintain AZA accreditation standards, improve staff safety and facilitate modern animal manage practices.</p>

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Rank	Sub-Project	Total Cost	Non-County Funding	County Funding	Project Description
10	WZ13101-Security Cameras and Card Reader System	\$266,546	\$0	\$266,546	An appropriation of \$266,546 is requested to replace the current security and gate system at the Zoo, which is at the end of its useful life. The current system is over 15 years old and is cumbersome and does not have the flexibility and capacity to add additional cameras and store the needed footage. The Zoo has over 52 revenue generating outlets including concessions, food carts, novelty, gates and rides/shows that require security cameras. In 2016, the West Entrance amenities will be completed and will require additional cameras and monitoring systems to protect the West Entrance and Parking Lot. The cash room and cash counting room also need new high resolution cameras. The security camera system is also needed to secure the Zoo's two warehouses that house over \$2.4 million in inventory. The Animal Division also uses the camera system for monitor animal care. The gate/card reader system is also outdated and a more up-to-date system is needed to run the Zoo more efficiently.
		\$0	\$0	\$0	
		\$0	\$0	\$0	
		\$0	\$0	\$0	
Total		\$4,051,710	\$887,000	\$3,164,710	

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1	WZ11901-Adventure Africa: Elephant Exhibit	\$8,600,000	\$4,300,000	\$4,300,000	This is a continuation of the Adventure Africa: Elephant exhibit. Funding years include 2015-2018.
2	2016-WZ12001-Hippopotamus Exhibit Renovations	\$4,800,000	\$3,600,000	\$1,200,000	The total estimated cost for the Underwater Hippo Exhibit is \$9,600,000. The 2014 Budget included \$4,800,000 to construct a new outdoor hippo underwater viewing exhibit. This will replace the existing hippo exhibit pool and yard, and the existing bongo indoor facilities and yard, all which were constructed 50 years ago. Major components of the new exhibit will include a visitor structure, large hippo pool, hippo exhibit land area and specialized water-filtration plant. The remaining balance of \$4,800,000 is requested for 2017. Funding for 2017 is comprised of \$2,400,000 from private funding, \$1,200,000 for the Zoological Society and \$1,200,000 from bonds.

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Rank	Sub-Project	Total Cost	Non-County Funding	County Funding	Project Description
3	WZ13501-Aquatic & Reptile Center Structural Integrity	\$126,843	\$0	\$126,843	Continuous electrical power is critical in maintaining life support for the animal collection. Life support systems include light, heat, air conditioning, water filtration, hydraulic systems, alarm systems, food storage and water systems. The Zoo is requesting to install permanent electrical generators in five animal areas to maintain power to life-critical systems in the event of a power outage in the following animal locations: Aviary/Flamingo, Apes/Primates/Macaque Island, Aquatic and Reptile Center, Small Mammals and Big Cat County/Winter Quarters/pachyderm East/West Giraffe.
		\$0	\$0	\$0	
		\$0	\$0	\$0	
Total		\$13,526,843	\$7,900,000	\$5,626,843	

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2018

Rank	Sub-Project	Total Cost	Non-County Funding	County Funding	Project Description
1	WZ11901-Adventure Africa: Elephant Exhibit	\$4,825,780	\$2,412,890	\$2,412,890	This is a continuation of the Adventure Africa: Elephant exhibit. Funding years include 2015-2018.
2	WZ14101-Adventure Africa: Rhinos	\$800,000	\$400,000	\$400,000	Planning funds are needed to design phase two of the Adventure Africa exhibit.
3	WZ13501-Aquatic & Reptile Center Structural Integrity	\$134,346	\$0	\$134,346	Continuous electrical power is critical in maintaining life support for the animal collection. Life support systems include light, heat, air conditioning, water filtration, hydraulic systems, alarm systems, food storage and water systems. The Zoo is requesting to install permanent electrical generators in five animal areas to maintain power to life-critical systems in the event of a power outage in the following animal locations: Aviary/Flamingo, Apes/Primates/Macaque Island, Aquatic and Reptile Center, Small Mammals and Big Cat County/Winter Quarters/pachyderm East/West Giraffe.
Total		\$5,760,126	\$2,812,890	\$2,947,236	

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2019

Rank	Sub-Project	Total Cost	Non-County Funding	County Funding	Project Description
1	WZ11901-Adventure Africa: Elephant Exhibit	\$6,131,092	\$3,065,546	\$3,065,546	This a continuation from 2018 and includes construction funds to complete the exhibit.
2	WZ11401-Zoo Life Support Emergency Generators	\$142,521	\$0	\$142,521	Continuous electrical power is critical in maintaining life support for the animal collection. Life support systems include light, heat, air conditioning, water filtration, hydraulic systems, alarm systems, food storage and water systems. The Zoo is requesting to install permanent electrical generators in five animal areas to maintain power to life-critical systems in the event of a power outage in the following animal locations: Aviary/Flamingo, Apes/Primates/Macaque Island, Aquatic and Reptile Center, Small Mammals and Big Cat County/Winter Quarters/pachyderm East/West Giraffe.
Total		\$6,273,613	\$3,065,546	\$3,208,067	

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2020

Rank	Sub-Project	Total Cost	Non-County Funding	County Funding	Project Description
1	WZ16601-East Entry Retail/Relocate Admin Offices	\$3,200,000	\$1,600,000	\$1,600,000	The current entry/exit gift shop is undersized and often spills out into the interior gathering space as well as onto the outdoor plaza with temporary displays. It needs to be enlarged and improved to better engage the guest flow. In order to accomplish this, administration offices need to be relocated into a new addition.
2	WZ16701-Admissions Parking Change/Penguin Exhibit	\$3,300,000	\$1,650,000	\$1,650,000	The ticketing process that now occurs from the vehicle upon entry to the parking lot, will be streamlined to improve efficiency and decrease wait times at the entry. This will require new ticketing kiosks, turnstiles and a new perimeter fence. Additionally, to better meet the husbandry needs of the Humboldt penguins in the entry plaza, the exhibit and holding will be enlarged and improved.
Total		\$6,500,000	\$3,250,000	\$3,250,000	