

October 8, 1993  
NC 311J.2

Introduced by: RON SIMS  
Proposed No.: 93-768

ORDINANCE NO. 11129

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AN ORDINANCE finding that revisions to the Zoo Capital Improvement Program Plan and the Financial and Development Plan as approved by the Zoo Development Oversight Committee and submitted to King County by the City of Seattle, pursuant to conditions stipulated in the Zoo Cooperative Agreement between King County and the City of Seattle are necessary and appropriate to substantially complete the Zoo development program as approved in King County Ordinance 7344.

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**PREAMBLE:**

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In 1985, the voters approved a Zoo Bond Levy in an amount not to exceed \$31,500,000 for the purpose of making improvements to the Woodland Park Zoo. Transfer of bond proceeds to the city of Seattle, and use of bond proceeds by the city are governed under a Zoo Cooperative Agreement between King County and the city of Seattle as approved in King County Ordinance 7616. Pursuant to Section 8 of the Interlocal Agreement, the city has submitted its proposed Zoo Capital Improvement Program Plan revisions to King County for approval.

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**BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:**

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**SECTION 1.** The King County council finds that the revised Zoo Capital Improvement Program Plan and the Financial and Development Plan attached as Exhibit A are necessary and appropriate to substantially complete the Zoo Development Plan as approved in King County Ordinance 7344.

1 SECTION 2. The King County council approves the attached  
2 Zoo Project and Financial Plans as submitted.

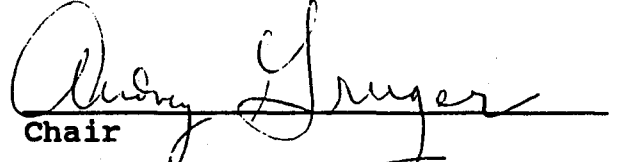
3 INTRODUCED AND READ for the first time this 25<sup>th</sup>  
4 day of October, 1993.

5 PASSED this 22<sup>nd</sup> day of November, 1993

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KING COUNTY COUNCIL  
KING COUNTY, WASHINGTON

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Chair

10 ATTEST:

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Deputy Clerk of the Council

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APPROVED this 2<sup>nd</sup> day of December, 1993.

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King County Executive

	-----Actuals-----							-----Projected-----					TOTALS
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
<b>--First Bond Sale Projects--</b>													
Zoo Project Overall Planning (72801)	65.0	138.1	17.1	35.5	13.2	42.8	5.4	5.0	5.0	5.0	3.0		335.0
- Inflated Dollars	65.0	138.1	17.1	35.5	13.2	42.8	5.4	5.0	5.0	5.0	3.0		335.0
Major Utilities Instalation (72802)		37.6	173.2	92.6	671.1	776.2	1,623.3	130.0					3,504.0
- Inflated Dollars		37.6	173.2	92.6	671.1	776.2	1,623.3	130.0					3,504.0
Asian Elephant Exhibit (72803) (incl in-kind)	489.3	2,258.1	2,674.4	694.2	6.3	76.1	10.2	94.3					6,303.0
- Inflated Dollars	489.3	2,258.1	2,674.4	694.2	6.3	76.1	10.2	94.3					6,303.0
NW Parking Lot and Parking Study (Consolidated 72805)		31.4	97.1	30.1	199.2	446.7	(0.4)	(0.0)					804.0
- Inflated Dollars		31.4	97.1	30.1	199.2	446.7	(0.4)	(0.0)					804.0
Graphics and site improvements (First bond sale related) (72806)		17.1	113.2	176.0	93.5	34.3	0.6	90.3					525.0
- Inflated Dollars		17.1	113.2	176.0	93.5	34.3	0.6	90.3					525.0
Asian Trop Forest Zone (72807) (incl \$100K in kind)	0.1	40.4	266.1	187.5	254.0	201.8	178.4	1,820.0	3,021.3	1,187.3	500.0	250.0	7,907.0
- Inflated Dollars	0.1	40.4	266.1	187.5	254.0	201.8	178.4	1,820.0	3,021.3	1,187.3	500.0	250.0	7,907.0
African/ S Amer Tropical Forest Zone (72808)		72.9	182.0	285.3	1,358.9	5,852.8	1,269.1	600.0	294.9	5.1			9,921.0
- Inflated Dollars		72.9	182.0	285.3	1,358.9	5,852.8	1,269.1	600.0	294.9	5.1			9,921.0
Family Farm improvements (Consolidated 72809)		1.6	3.6	10.5	40.1	45.3	114.4	700.0	138.5				1,054.0
- Inflated Dollars		1.6	3.6	10.5	40.1	45.3	114.4	700.0	138.5				1,054.0
Keeper and maintenance improvements (Consolidated 72810, design only)	0.8	40.8	169.0	207.4	489.1	(0.0)	25.3						932.4
- Inflated Dollars	0.8	40.8	169.0	207.4	489.1	(0.0)	25.3						932.4
Gift/Food/bookstore (72813); ** (\$1,809,000 segregated to 72822)		6.9	109.9	12.3	9.2	20.9	21.5	430.0	230.3				841.0
- Inflated Dollars		6.9	109.9	12.3	9.2	20.9	21.5	430.0	230.3				841.0
Taiga Zone / Montane (Consolidated 72814 - design only)			47.6	88.1	135.5	275.2	482.3						1,028.6
- Inflated Dollars			47.6	88.1	135.5	275.2	482.3						1,028.6
Visitor Amenities (72829)			22.4	68.5	53.8	117.1	883.3	311.2	100.0	80.0	26.8		1,663.0
- Inflated Dollars			22.4	68.5	53.8	117.1	883.3	311.2	100.0	80.0	26.8		1,663.0
Education/Adminstration Facilities (72822); ** (segregated from 72813)					76.2	34.0	122.1	1,000.0	651.7				1,884.0
- Inflated Dollars					76.2	34.0	122.1	1,000.0	651.7				1,884.0
Status, first bond sale projects:													
Total Project Costs in 1988 dollars	555.2	2,644.8	3,875.6	1,888.0	3,400.0	7,923.0	4,735.6	5,180.8	4,441.8	1,277.4	529.7	250.0	36,701.9
Inflation reserve													
Project Costs in actual dollars	555.2	2,644.8	3,875.6	1,888.0	3,400.0	7,923.0	4,735.6	5,180.8	4,441.8	1,277.4	529.7	250.0	36,701.9
Unallocated contingency reserves													
Total inflation and contingency reserves													
Total Project Costs	555.2	2,644.8	3,875.6	1,888.0	3,400.0	7,923.0	4,735.6	5,180.8	4,441.8	1,277.4	529.7	250.0	36,701.9

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--Second Bond Sale Projects--

	-----Actuals-----										-----Projected-----		TOTALS
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
Graphics and site improvements (Second bond sale related) (72806)						43.6	80.0	159.7	250.0	200.0	192.7	50.0	976.0
- Inflated Dollars						43.6	80.0	159.7	250.0	200.0	192.7	50.0	976.0
Taiga Zone / Montane (Consolidated 72814 - construction)							851.7	4,797.0	800.0	199.7			6,648.4
- Inflated Dollars							851.7	4,797.0	800.0	199.7			6,648.4
Keeper and maintenance improvements (Consolidated 72810, construction)						2,763.4	1,033.5	117.7	20.0	150.0	50.0		4,134.6
- Inflated Dollars						2,763.4	1,033.5	117.7	20.0	150.0	50.0		4,134.6
Completion of Savanna Zone (72816)					0.4	45.7	34.3	100.0	200.0	406.6			787.0
- Inflated Dollars					0.4	45.7	34.3	100.0	200.0	406.6			787.0
Steppe Zone (72817)									50.0	100.0	200.0		350.0
- Inflated Dollars									50.0	100.0	200.0		350.0
Desert Zone/Tropical Nocturnal (Consolidated 72824)						7.1	108.0	100.0	210.0	400.9	100.0		926.0
- Inflated Dollars						7.1	108.0	100.0	210.0	400.9	100.0		926.0
Temperate Deciduous and Rain Forest Zones (72825)						4.2	182.9	900.0	262.9	(0.0)			1,350.0
- Inflated Dollars						4.2	182.9	900.0	262.9	(0.0)			1,350.0
Other Special Exhibits (72827)								35.0	300.0				335.0
- Inflated Dollars								35.0	300.0				335.0
Off-site breeding and holding (72828)				15.0	9.2	1.1		150.0	200.0	200.0	196.8		772.0
- Inflated Dollars				15.0	9.2	1.1		150.0	200.0	200.0	196.8		772.0
Status, second bond sale projects:													
Total Project Costs in <sup>current</sup> 1988 dollars				15.0	9.6	2,865.1	2,290.4	6,359.4	2,292.9	1,657.2	739.4	50.0	16,279.0
Inflation reserve													
Project Costs in actual dollars				15.0	9.6	2,865.1	2,290.4	6,359.4	2,292.9	1,657.2	739.4	50.0	16,279.0
Unallocated contingency reserves													
Total inflation and contingency reserves													
Total Project Costs				15.0	9.6	2,865.1	2,290.4	6,359.4	2,292.9	1,657.2	739.4	50.0	16,279.0
Summary status, all projects:													
Total Project Costs in <sup>current</sup> 1988 dollars	555.2	2,644.8	3,875.6	1,903.0	3,409.0	10,788.2	7,025.9	11,540.3	6,734.7	2,934.6	1,269.1	300.0	52,980.9
Inflation reserve													
Project Costs in actual dollars	555.2	2,644.8	3,875.6	1,903.0	3,409.6	10,788.2	7,025.9	11,540.3	6,734.7	2,934.6	1,269.1	300.0	52,980.9
Unallocated contingency reserves	---	---	---	---									
Total inflation and contingency reserves													
Total Project Costs	555.2	2,644.8	3,875.6	1,903.0	3,409.6	10,788.2	7,025.9	11,540.3	6,734.7	2,934.6	1,269.1	300.0	52,980.9

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

1. TROPICAL ASIA

Stage I--A zone characterized by a wide variety of trees in a lush wet setting and a very high density of animals supported by a complex variety of vegetation and food resources. This zone will include extensive holding, landscaping and visitor education facilities. Major elements of the Asian Tropical Forest include: "Save Our Elephants" area with free-roaming elephant forest, elephant barn, paddock, and outdoor elephant bathing pool; marsh pond with Asian waterfowl, elephant demonstration area and Thai logging camp; elephant forest overlook; Thai forest stream and waterfall; muntjac deer, sun bear, and tree python exhibits; Thai village and garden.

**#803 ZOO ASIAN ELEPHANT EXHIBIT**  
 DESCRIPTION (1991): This project replaced the old elephant house with a major new exhibit southeast of the feline house. The exhibit is patterned after a Thai logging village set in the tropical rain forest of Asia. Private donations via the "Save Our Elephants" campaign and the Woodland Park Zoological Society contributed about \$2.7 million to the project. Although the new exhibit was opened to the public in 1989, construction on some components will continue through 1991. The budget has been increased to provide for bird holding at the new marsh area, modifications to the elephant pool filtration system, and other exhibit adjustments.

The combined project known as Tropical Asia is currently budgeted at \$9,160,000. This is the most complex and expensive project in the program. It includes some of the most difficult animals in the zoo to provide for (including elephants, orangutans, and tigers). The original budgets for this project are not adequate to meet the stringent requirements of these animals, especially the orangutan. \$4,050,000 in additional funds are being recommended for this project. \$200,000 would be used to provide bird holding at the new Asian elephant exhibit. The remaining funds would allow for the completion of the zone.

The \$1,000,000 in additional funds will provide for improvements to the sun bear and tiger exhibits and the creation of an exterior exhibit for macaques. The majority of the project will be completed by 1995, leaving tiger and sun bear exhibit improvements to be completed by 1997.

Stage II--This stage will feature three or four primate islands and approximately 1/4 acre tiger compound with holding area.

**#807 ZOO ASIAN TROPICAL FOREST**  
 DESCRIPTION (1994): This project will include completion of the Asian tropical zone started with the new Asian elephant exhibit. It will be immediately north of the new elephant exhibit and provide a naturalistic habitat for such animals as tigers, muntjacs, tree pythons, sun bear, siamangs, orangutans, and macaques. Related support and visitor facilities will also be constructed. The budget shown below includes in-kind donations from the Woodland Park Zoological Society to assist with the exhibit landscaping and related aspects of the project. In 1993, the Zoo Bond Oversight Committee recommended a budget increase of \$1.0 million for this exhibit.

BUDGET (All numbers in this report have been rounded to the nearest thousand.)

			<u>SCHEDULE</u>	<u>KEY ELEMENTS</u>	<u>Completed</u>	<u>Current Program</u>	<u>Deleted</u>	<u>Notes</u>
Original Allocation:	803	\$6,034,000	Original:	803	1985-1987	Holding	X	
	807	2,414,000		807	1988-1989	Landscaping	X	
Allocation (1990 C.I.P.):	803	6,103,000	1991 Reprogramming:	803	1985-1989	Elephant Forest	X	
	807	3,057,000		807	1988-1993	Barn	X	
Allocation (1991 C.I.P.):	803	6,303,000	1993 Reprogramming:	803	1985-1989	Paddock	X	
	807	6,907,000		807	1988-1997	Bathing Pool	X	
Proposed Allocation:	803	6,303,000				Demonstration Area	X	
	807	7,907,000				Marsh Pond and Birds	X	
						Forest Overlook	X	
						Waterfall	X	
						Muntjac Deer		X
						Sun Bear		X
						Tree Python		X
						Thai Village	X	
						Garden	X	
						Orangutan		X
						Tiger		X
						Siamang		X

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

ZOO AFRICAN AND SOUTH AMERICAN TROPICAL FOREST EXHIBITS

The following exhibits are envisioned: African Tropical Forest: A major portion of the gorilla exhibit has been developed; future expansion is planned. Additional primate islands for colobus monkeys, lemurs, and DeBrazza monkeys are proposed. South American Tropical Forest: A large conservatory for South American bird species, as well as exhibits of squirrel monkeys, lemurs, and tapirs are envisioned.

#808 ZOO AFRICAN/SOUTH AMERICAN TROPICAL FOREST/ AVIARY  
 DESCRIPTION (1994): "The Tropical Rain Forest" is the name which the zoo has adopted for this zone for interpretive and operational purposes. The African and South American tropical forest zone includes an expanded gorilla exhibit, new exhibit space for animals such as the ring-tailed lemur, colobus and DeBrazza monkeys. The project provides a new tropical forest building to replace the former aviary. The tropical forest building primarily houses birds, but it also has some mammals, reptiles, insects, and fish. This zone is situated near the zoo's west entry. In 1993, the Zoo Bond Oversight Committee recommended a budget increase of \$1.04 million for this exhibit.

Early in the design it became apparent that some desirable elements (i.e., colobus monkey, tapir) could not be incorporated within the budget. A project that was believed to be within the budget was developed and advertised for bid in the spring of 1990. The bids received were approximately \$1 million in excess of the construction budget. Due to technical errors the bids on the first advertisement were disqualified and the project was re-advertised. Bids at the second opening were approximately \$100,000 higher than the first bids. After careful analysis of the bids and review with the Bond Oversight Committee a construction contract was awarded to Strand Construction Inc. In order to make this award a number of areas of the project had to be scaled back, including artificial exhibitry and landscaping, both elements critical to the quality of the finished product. In addition, the expansion of the gorilla exhibit and improvements to the lemur exhibit, which had been additive bid items, could not be awarded. It is therefore proposed that the budget for this project be increased by \$2,200,000.

The exhibit opened to the public in September 1992, however, a number of adjustments and completion of project elements will require \$1,040,000 in additional funds and lengthening of the schedule.

BUDGET

SCHEDULE

Original Allocation: \$6,759,000  
 Allocation (1990 C.I.P.): 6,681,000  
 Allocation (1991 C.I.P.): 8,881,000  
 Proposed Allocation: 9,921,000

Original: 1987-1989  
 1991 Reprogramming: 1987-1992  
 1993 Reprogramming: 1987-1995

KEY ELEMENTS

Completed

Current Program

Deleted

Notes

Gorilla X  
 Colobus X  
 Lemurs X  
 DeBrazza X  
 Large Conservatory X  
 Tapirs X  
 Pygmy marmoset X  
 Squirrel Monkey X

X

X

Difficulties in holding these animals in an open exhibit has led to the decision not to display them.

Conservatory Elements  
 Small Mammals X  
 Reptiles X  
 Insects X

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

NORTHERN TRAIL

Taiga Zone--A high-latitude zone characterized by extensive and dense stands of conifers. Animals in this zone are characterized by heavy insulation, hibernation and food storage. Because of glacial scouring, ponds and lakes are numerous in this zone.

This zone as proposed would feature a simulated river with waterfalls, rapids, bars and ponds that would service and enhance habitats for animals including wolves, Kodiak bears, river otters, and snowy owls.

Montane Zone--A generally high altitude zone characterized by rugged rocky areas as well as more gentle slopes with accumulated loose stones or rock debris. Plants and animals of this zone have adapted to extreme temperature variations and rugged terrain. This zone would feature expansion of snow leopard habitat and new exhibits for lesser pandas, mountain goats, marmots, and bharal sheep.

#814 TAIGA AND MONTANE ZONES ("NORTHERN TRAIL") DESCRIPTION (1994): The "Northern Trail" is the name adopted for this project for interpretive and operational purposes. The tundra zone will be incorporated into the Northern Trail by adding a tundra interpretive center building. (See 72827 - Other Special Exhibits.) The taiga zone will have about three acres of extensive and dense stands of conifers and animals characterized by heavy insulation, hibernation, and food storage. The zone will also feature ponds, a braided stream, and related environmental conditions for wolves, brown bears, river otters, and bald eagles. The proposed "Alaska Exhibit" will be part of the taiga zone, which will be situated in the central part of the northern edge of the zoo grounds. Snowy owls will be included in an adjacent part of the Alaska exhibit.

The montane zone located southeast of the taiga and north of the Asian tropical forest will feature rugged rocky areas as well as more gentle slopes with accumulated loose stones and rock debris. The montane habitat will exhibit animals and plants that have adapted to extremes of temperature and rugged terrain. The animals include snow leopards, lesser pandas, mountain goats, marmots, and bharal sheep. The snow leopard and lesser panda exhibits have been improved and the bharal sheep will use the existing mountain goat area.

The project will require additional funding due to the need for extensive utility work, extensive animal care and holding requirements, the difficulty of the terrain, and the high cost of public construction projects. The addition of \$2 million to the budget will provide for completion of the taiga and tundra elements of this project and limited improvements for the montane. The required animals identified in the bond resolution will be accommodated by the project, with snow leopards, mountain goats, and sheep receiving improvements to existing exhibits.

No changes in scope or budget are proposed. The schedule is lengthened to reflect the exhibit adjustment period. The exhibit is scheduled to open in the fall of 1994.

BUDGET

SCHEDULE

Original Allocation:	Taiga	\$3,000,000
	Montane	2,937,000
		\$5,937,000
Allocation (1990 C.I.P.):		5,677,000
Allocation (1991 C.I.P.):		7,677,000
Proposed Allocation:		7,677,000

Original:	1990-1992
1991 Reprogramming:	1988-1994
1993 Reprogramming:	1988-1995

<u>KEY ELEMENTS</u>
River/Rapids
Wolves
Kodiak Bears
River Otters
Snowy Owls
Snow Leopard
Lesser Pandas
Mountain Goats
Marmots
Bharal Sheep
Eagle (Taiga Campaign)

Completed

Current Program

Deleted

Notes

X  
X  
X  
X  
X  
X  
X  
X  
X  
X  
X

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

4. SAVANNA ZONE

A mid-latitude zone characterized by open grassland with scattered trees. Animal life ranges from larger ungulates, carnivores and birds to a wide variety of smaller burrowing mammals.

This zone would feature the addition of a rhinoceros exhibit to complete the African Savanna. An Australian Savanna exhibit would include walleroos, emus, and black swans.

#816 ZOO SAVANNA ZONE

DESCRIPTION (1994): The existing savanna area will be enhanced to provide an environment of open grassland with scattered trees. Animal life there ranges from larger ungulates, carnivores, and birds to a wide variety of smaller burrowing animals. This zone includes African and Australasian exhibit areas. (The proposed rhinoceros has been deleted from the African Savanna due to the requirements for adequate facilities for this endangered species which could not be met with the available space and funding.)

Based on the recent international attention concerning the endangered status of the rhinoceros and its extensive holding and exhibit requirements, and following review with the Bond Oversight Committee, it is recommended that this portion of the program be deleted from the African Savanna and, in turn, that the budget be reduced by \$1,500,000.

The remaining \$787,000 will be allocated to improve animal exhibits and visitor circulation in the African Savanna and Australasia exhibit areas.

No changes in scope or budget. The schedule is lengthened to reflect the exhibit adjustment period.

BUDGET

SCHEDULE

KEY ELEMENTS

Completed

Current Program

Deleted

Notes

Original Allocation: \$2,414,000  
 Allocation (1990 C.I.P.): 2,287,000  
 Allocation (1991 C.I.P.): 787,000  
 Proposed Allocation: 787,000

Original: 1990-1993  
 1991 Reprogramming: 1990-1993  
 1993 Reprogramming: 1990-1995

Africa:  
 Rhinoceros

X

- Based on the recent international attention concerning the endangered status of the rhinoceros and its extensive holding and exhibit requirements, it is not appropriate to proceed with this element of the project.
1. The public expects Woodland Park Zoo to make exhibiting decisions based on the welfare of the animals.
  2. The funds reallocated to other sub-projects will ensure that educational opportunities for the public and animal welfare are enhanced.
  3. There will be no effect on comfort or accessibility.
  4. The size of exhibit and the holding facilities that could be built would not provide appropriate conditions for the rhinoceros.
  5. The overall effect will be to reduce operating and maintenance costs.
  6. Less disruption of existing exhibits and animals will result.
  7. While the rhinoceros would be a popular animal, not having it is not expected to affect the zoo's revenues.

Australasia:  
 Walleroos  
 Emus  
 Black Swans

X  
 X  
 X

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

5. STEPPE ZONE

The Steppe Zone, which is widespread on the interiors of continents, is characterized by the low stature of its plant species which varies, depending on rainfall, from more open terrain with shorter grass. Colder grasslands will support populations of large hoofed animals which move over the landscape in regular migrations. A variety of carnivores, burrowing herbivores, bison, antelope and prairie dogs are planned for the North American steppe, while the South American Steppe would contain llamas, maned wolves, and rheas.

#817 ZOO STEPPE ZONE

DESCRIPTION (1994): This zone is characterized by low plants and grasses; colder grasslands support large hoofed animals that move about the landscape in large migrations. A new habitat for flamingos and improvements to the existing exhibits will be provided. In 1993, the Zoo Bond Oversight Committee recommended a budget reduction of \$998,000 for this exhibit.

It is proposed to reduce the project both in size and scope to provide a moderate exhibit for priority animal species only. Consideration will be given to using a portion of the area formerly identified for the steppe exhibit (currently occupied by the pony ride and associated facilities) for pony ride and associated facilities. Improvements to the pony facilities will be funded as part of project #809. As a result of the scope reduction, the project budget would be reduced by \$1,900,000.

Reduction of the project budget and scope from \$1,348,000 to \$350,000, and providing for completion of the flamingo exhibit portion of the concept plan to the quality standards that the zoo has become recognized for. Other exhibit improvements while less refined would be logical first steps toward completion of the exhibit concept plan for the Steppe Zone and would include circulation modifications, landscape improvements, overlook modifications and interpretive graphics.

The proposed project elements are consistent with the Bond Issue Summary Description.

BUDGET

SCHEDULE

Original Allocation: \$3,427,000  
 Allocation (1990 C.I.P.): 3,248,000  
 Allocation (1991 C.I.P.): 1,348,000  
 Proposed Allocation: 350,000

Original: 1991-1993  
 1991 Reprogramming: 1994-1997  
 1993 Reprogramming: 1993-1995

KEY ELEMENTS

Grasslands  
 Prairie Dogs  
 Bison

Antelope  
 Llamas  
 Maned Wolves  
 Rheas

Completed

X

Current Program

X

X  
 X  
 X  
 X

Deleted

X

Notes

These large animals need big, open spaces to be properly exhibited. Based on available land in the zoo, they are not considered a priority.

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

DESERT ZONE

This zone receives low but variable rainfall and is characterized by scattered, well-spaced shrubs, succulents and quick growing and flowering annuals which sprout immediately after infrequent heavy rains. Many of the animals have evolved physiological and/or behavioral adaptations to a minimal water supply. This exhibit may feature an expansion of the tropical/nocturnal house for desert species.

TROPICAL AND NOCTURNAL HOUSE IMPROVEMENTS

Various exhibit modifications and other work on complex mechanical and building systems to update the facility. Work will include structural changes needed to house more bird species to increase the number of mixed exhibits.

#824 ZOO DESERT ZONE AND TROPICAL/NOCTURNAL IMPROVEMENTS  
 DESCRIPTION (1994): This zone receives low but variable rainfall and is characterized by scattered, well-spaced shrubs, succulents, and quick-growing flowering annuals that sprout immediately after the infrequent heavy rains. The animals of this environment have evolved physiological and behavioral adaptations to the low water supply. The existing penguin exhibit will be improved to provide increased animal space and a more natural setting. The project will also modify and upgrade existing buildings to accommodate current and future needs as they eventually become part of the desert and African/South American tropical forest zones. In 1993, the Zoo Bond Oversight Committee recommended a budget reduction of \$1,648,000 for the exhibit.

Based on our climate, the desert zone is envisioned as an interior exhibit pavilion approximately 7,500 square feet. There are no budget adjustments proposed.

Approval is requested for reduction of the project budget and scope from \$2,572,000 to \$926,000.

The current Desert Zone project budget falls far short of the cost to develop a new bio-climatic exhibit comparable to the standards set by earlier exhibits in comprehensive habitat program and design. Therefore, rather than construct a project that would not meet the high public expectations for Woodland Park Zoo, selected elements of the concept plan will be developed to the quality standards that the zoo has become recognized for. These initial developments would include improvements to the existing Tropical/Nocturnal House and penguin exhibit consistent with the long range concept plans for the zone, while also coordinated with the existing and proposed adjacent zoo developments including: the primary Food Service Facility; Tropical Rain Forest; and Steppe Zone.

The proposed project elements are consistent with the Bond Issue Summary Description.

BUDGET

SCHEDULE

Original Allocation:	Desert	\$2,414,000
	Trop/Noc	300,000
		<u>\$2,714,000</u>
Allocation (1990 C.I.P.):		2,572,000
Allocation (1991 C.I.P.):		2,572,000
Proposed Allocation:		926,000

Original:	1993-1994
1991 Reprogramming:	1991-1994
1993 Reprogramming:	1993-1996

KEY ELEMENTS

More Birds  
 Mixed Exhibits  
 Desert Plantings

Completed

Current Program

X  
 X  
 X

Deleted

Notes

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

TEMPERATE DECIDUOUS FOREST ZONE

This zone is characterized by multi-leveled forests with trees, shrubs, herbs and a diverse collection of animals, including large carnivores, ungulates, small rodents, and birds. A major portion of this zone has been completed with the swamp and marsh exhibit. New portions may include white-tailed deer, song birds, and turtles.

#825 ZOO TEMPERATE DECIDUOUS AND RAIN FOREST DESCRIPTION (1994): The temperate forest zone will feature mixed species, including bird life and the replication of their environments. The temperate forest is characterized by multi-layered elements with trees, shrubs, herbs, and a diverse collection of animals, which may include large carnivores, ungulates, small rodents, song birds, white-tailed deer, and turtles. Part of this zone is the already-completed swamp and marsh exhibit. This temperate forest represents the North American forests inhabited by species native to our Puget Sound region. Cougars will remain in their current exhibit. The new exhibit includes the Family Farm, which is a part of the same bioclimatic zone. In 1993, the Zoo Bond Oversight Committee recommended a budget reduction of \$42,000 for this exhibit based on the construction bid awarded in March 1993.

No changes in scope or budget are proposed.

One year is added to the development schedule to reflect:

1. Contracting requirements
2. New two-stage zoo design process
3. Permit processing
4. Complex construction sequencing
5. Project close-out

No changes in the scope are proposed. The schedule has been accelerated to allow the project to be combined with #809 Family Farm and Special Exhibits. The budget would be reduced by \$42,000 based on the construction bid award.

TEMPERATE RAIN FOREST ZONE

The North American Temperate Rain Forest located along the Pacific Coast contains the tallest forest in the world. Conifer dominate an understory of shrubs and ferns. This zone represents King County's "native habitat." A miniature forest is proposed to create a habitat for elk, cougar and other species which once flourished in King County.

BUDGET

SCHEDULE

KEY ELEMENTS

Completed

Current Program

Deleted

Notes

Original Allocation: \$1,469,000  
 Allocation (1990 C.I.P.): 1,392,000  
 Allocation (1991 C.I.P.): 1,392,000  
 Proposed Allocation: 1,350,000

Original: 1993-1995  
 1991 Reprogramming: 1993-1996  
 1993 Reprogramming: 1992-1994

Ungulates  
 Birds  
 Turtles  
 Cougar  
 Elk

X  
 X  
 X  
 X

X

Will remain in current exhibit. Included as part of the Northern Trail.

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## ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGEC.I.P. DESCRIPTION1990 REPROGRAMMING -- PROPOSED ACTION1993 REPROGRAMMING -- PROPOSED ACTION

## D. SPECIAL PURPOSE EXHIBITS

A) FAMILY FARM  
 Described generally as various minor improvements, potentially to include: new facility for domestic wine and improvement to the animal contact area. Expand the farm theme to the west of the exhibit area. Make the pond areas less formal. Remodel the Northwest Aviary. Possibly change the use of the nursery and bird-rearing area to be more farm-related animals.

Other options include: incorporate draft horses into Family Farm as working components, revise landscape design to demonstrate farm orchard.

B) TROPICAL/NOCTURNAL HOUSE  
 (SEE DESERT ZONE)

C) HORSE AND PONY FACILITIES  
 Ponies and horses are combined  
 New stables, yards, and other needed improvements.

D) OTHER SPECIAL EXHIBITS  
 As described by zoo staff, other special exhibits include, at present, birds of prey and the Backyard Ecology area. Other temporary and/or permanent special exhibits are anticipated although none has been identified or costed out at this time. Possibilities include exhibit areas for animals on short-term loan or international exchange, such as koalas, giant pandas, or golden monkeys. Other exhibits could include an insect zoo; special educational exhibits to illustrate a particular interpretive theme; rotating different species according to need. Examples: convergent evolution; special adaptations such as protective coloration, and mimicry.

#809 ZOO FAMILY FARM, HORSE AND PONY, AND SPECIAL EXHIBIT IMPROVEMENTS  
 DESCRIPTION (1994): The Family Farm, Horse and Pony, and Special Exhibit Improvements project will emphasize a discovery concept oriented toward children's activities, improvements to the animal contact areas, and the redevelopment of the "Foreign Friends Village" to provide interest and excitement for children. The Family Farm is part of the temperate forest. Pony facilities will remain generally in their current area but will be improved. In 1993, the Zoo Bond Oversight Committee recommended a budget reduction of \$158,000 for this project based on the construction bid awarded in March, 1993.

#827 ZOO OTHER SPECIAL EXHIBITS II  
 DESCRIPTION (1994): This project category will provide the educational and illustrative portions of the Tundra Interpretive Center located in the "Northern Trail."

It is proposed to revise the scope to emphasize a discovery concept directed toward children's activities, improvements to animal contact areas, and the redevelopment of the "Foreign Friends Village" into an activity center providing interest and excitement for children. This will require an addition to the budget of \$500,000. As noted in the Steppe Zone, facilities for ponies will remain in the general area that they currently occupy. All requirements of the bond resolution will be met with the exception of draft horses which are not currently kept as a zoo animal and may not be compatible with future plans.

No changes to scope or budget are proposed. All requirements of the bond resolution will be met.

No changes in scope are proposed. The schedule is lengthened to reflect the exhibit adjustment period. The budget would be reduced by \$158,000 based on the construction bid award.

No changes in scope are proposed. Educational and illustrative portions of the Tundra Interpretive Center located in #814 Northern Trail will be provided. The schedule has been accelerated so that it will be completed before the Northern Trail opens in the fall of 1994. The budget would be reduced by \$91,000.

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BUDGET

Original Allocation:		
Family Farm	809	\$ 250,000
Horse & Pony	818	250,000
Special Exhibits	819	250,000
Special Exhibits	827	450,000
		<u>\$1,200,000</u>
Allocation (1990 C.I. .):		
	809	\$ 712,000
	(includes 818 & 819)	
	827	426,000
		<u>\$1,138,000</u>
Allocation (1991 C.I. .):		
	809	\$1,212,000
	827	426,000
		<u>\$1,638,000</u>

SCHEDULE

Original:	Family Farm 809	1987
	Horse & Pony 818	1990-1991
	Special Exhibits 819	1990-1991
	Special Exhibits 827	1993-1994
1991 Reprogramming:		
	Family Farm 809	1987-1993
	(includes 818 & 819)	
	Special Exhibits 827	1994-1996
1993 Reprogramming:		
	Family Farm 809	1987-1994
	(includes 818 & 819)	
	Special Exhibits 827	1993-1994

<u>KEY ELEMENTS</u>	<u>Completed</u>	<u>Current Program</u>	<u>Deleted</u>	<u>Notes</u>
309:				
Pond Modifications		X		
Landscape Revision		X		
Domestic Swine		X		
Contact Area		X		
NW Aviary Rehab.		X		
318:				
Pony Yard/Stable		X		
Draft Horses			X	The wagon ride program, which required draft horses, was eliminated for operational and safety reasons.
319 & 827:				
Short-Term Loans		X		
Insects		X		
Education/Discovery		X		

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

10. ANIMAL CARE AND ZOO SUPPORT FACILITIES

(A) KEEPER FACILITIES

Provide adequate crew quarters, including offices, restrooms, lockers, showers, and lunch room facilities. Animal curator relocated to administrative offices.

#810 ZOO KEEPER, MAINTENANCE, VETERINARY, AND RELATED IMPROVEMENTS

DESCRIPTION (1994): This project involves construction of offices, restrooms, lockers, showers, a lunchroom for zoo staff, workshop space, storage, horticulture space, and related services areas. The project also provides facilities and improvements to safely store and mix the chemicals used for pest control, painting, horticulture, and other purposes at the zoo. The project replaces the existing animal health complex to provide surgical treatment, recovery, pharmacy, office, laboratory, and related support areas. It also provides new holding cages for sick and quarantined animals and animals kept off-exhibit. These off-exhibit facilities will support special breeding programs, house animals that are not needed for current exhibits, and permit temporary holding during periods of habitat/exhibit renovation and transfer/shipping activities. This project involves redevelopment of the service complex at the southeast corner of the zoo grounds. Renovation of the existing veterinary building will follow the move of the animal health unit into its new facilities. In 1993, the Zoo Bond Oversight Committee recommended a \$220,000 increase in the budget to provide greenhouses to support the new tropical exhibits.

The bond program anticipated renovating the old veterinary facilities which are located in the middle of the zoo grounds. This space is prime exhibit for the public and with very limited overall space available within the zoo, it was determined early in the program that the veterinary facilities should be relocated to the southeast corner of the zoo property, adjacent to the existing maintenance facilities. This was a sound programmatic decision, however it has had cost impacts. It is more expensive to develop this new site than it would have been to renovate the old one. The second cost impact has come from higher standards being required for zoo animal health facilities. It is proposed that \$1,500,000 be added to the budget to complete this and the other components of this section in accordance with the bond resolution requirements.

The \$220,000 in additional funds will provide greenhouses to support the new tropical exhibits. With the exception of the greenhouses this project is complete.

(B) MAINTENANCE & HORTICULTURAL FACILITIES

Provide increased storage space for maintenance and gardening supplies, small shop areas for carpentry, painting and other crafts. Also provide an on-site plant holding area for donated plants, and structure for storing toxic substances.

(C) ADMINISTRATIVE OFFICES

Commission recommends that administrative offices be moved to the ARC building following relocation of the education staff to the Poncho Theater. Provide centralized office space for zoo director, business manager, operations manager, two secretaries, accounting staff and animal curators. (SEE PROJECT #813)

(D) HOLDING & BREEDING FACILITIES

Adequate off-exhibit areas are needed to hold animals involved in breeding programs, undergoing rehabilitation or are surplus to the zoo's animal collection.

ON SITE: Provide additional cages and other facilities at the conservation area in the commissary complex and at other locations. (SEE PROJECT #810)

OFF SITE: Purchase 25 to 40 acres of farmland within one hour's drive of the zoo; construct improvements to create an off-site holding and breeding facility.

#828 ZOO OFF-SITE BREEDING AND HOLDING FACILITY

DESCRIPTION (1994): An animal breeding and holding facility will be developed in cooperation with the Center for Wildlife Conservation (CWC) and other institutions. The new facility will provide for breeding, quarantine, rehabilitation and research programs. It will be a functional, non-exhibit development outside the present zoo grounds. The schedule for acquisition and development will depend on the availability of suitable land. The budget will provide for a basic, secure facility on land which is anticipated to be donated, in accordance with the program intent of Resolution 28324.

A search for an appropriate site is currently underway and several potential sites have been identified. These sites would be available to the zoo without cost for acquisition. Therefore, it is proposed that the budget be reduced by \$800,000. The remaining funds would be used to develop the site.

No changes are proposed.

(E) VETERINARY FACILITIES

Renovate/reconstruct aged and inadequate animal health facilities.

Complete repairs and construction of a major expansion and modernization of veterinary facilities to provide approximately 2,000 square feet of modern surgical space. Also renovate animal hospital areas to provide additional office, laboratory, and support space. (SEE PROJECT #810)

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

<u>BUDGET</u>		<u>SCHEDULE</u>		<u>KEY ELEMENTS</u>	<u>Completed</u>	<u>Current Program</u>	<u>Deleted</u>	<u>Notes</u>
Original Allocation:	810	\$ 450,000	Original:	810	1993-1995			
	811	1,000,000		811	1988-1989			New structure
	821	1,400,000		821	1990-1992			
	804	50,000		804	1986			
	812	350,000		812	1988-1989			New structure
		<u>\$3,250,000</u>						
Allocation (1990 C.I.P.):		\$3,347,000	1991 Reprogramming:		1993-1996		X	
Allocation (1991 C.I.P.):		4,847,000	1993 Reprogramming:		1992-1994			
Proposed Allocation:		5,067,000						
				811 & 821:				
				Modern Surgical Space	X			New facilities are being developed
				Offices	X			
				Laboratory	X			
				Support Space	X			
				804: Chemical Storage	X			
				812: On-Site Holding	X			

<u>BUDGET</u>		<u>SCHEDULE</u>		<u>KEY ELEMENTS</u>	<u>Completed</u>	<u>Current Program</u>	<u>Deleted</u>	<u>Notes</u>
Original Allocation:	828	\$1,500,000	Original:		1994-1995			
Allocation (1990 C.I.P.):		1,572,000	1991 Reprogramming:		1989-1994		X	
Allocation (1991 C.I.P.):		772,000	1993 Reprogramming:		1989-1994			
Proposed Allocation:		772,000						
				25-40 acres for				
				off-site holding				
				and breeding				

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

1. EDUCATION FACILITIES AND VISITOR AMENITIES

A) EDUCATION/VISITOR FACILITIES

Replacement and expansion of the Poncho Theater for an education center to replace the existing ARC: to include meeting rooms, a discovery room, and approximately 2,000 square feet of offices.

#822 ZOO EDUCATION AND ADMINISTRATION FACILITIES DESCRIPTION (1994): The project will create a new education center by building 5,000 - 7,000 S.F. of space adjacent to the theater near the zoo's south gate and by making minor improvements to the theater itself. The new education facilities will include a lecture/film auditorium, staff offices, library, meeting and classrooms, and related storage and support spaces. This project reflects an expanded vision of the zoo's mission in the area of conservation, environmental, and zoological education. In 1993, the Zoo Bond Oversight Committee recommended a budget increase of \$75,000 for this project to provide new seats in the Poncho Auditorium.

Interim administrative offices have been provided in the area of the old elephant exhibit in lieu of remodeling the ARC. This was made necessary due to delays in the zoo gaining access to the Poncho Theater which was linked to the relocation of the education function from the ARC. No additional funds are proposed for this element. Even though the Children's Theater is still occupying the Poncho Theater, they do have plans to relocate to the Seattle Center. Therefore, it is proposed that we proceed immediately with development of the education center at the south entry. Due in part to the delay in being able to implement this project and to the fact that the Poncho Theater will only be available on a limited basis for several more years, the cost of providing adequate educational facilities is higher than originally projected. It is proposed that \$1,000,000 be added to the education component.

The \$75,000 in additional funds will provide for new seating in the Poncho Auditorium which is becoming a part of the new Education Center. No changes in the schedule are proposed.

B) GIFT SHOP/BOOKSTORE

Commission recommends the expansion/relocation of the bookstore to a main entrance as a first priority because of the potential for increased zoo revenue and public service. Shop should have ample display for educational and souvenir items as well as rental of wheelchairs, strollers, umbrellas and other visitor conveniences. Zoological Society offices should also be incorporated.

#813 ZOO FOOD SERVICES GIFT AND BOOKSHOP FACILITIES DESCRIPTION (1994): This project will provide food service facilities for zoo patrons through a concession contract with the Woodland Park Zoological Society. A new restaurant and satellite will be funded by the concessionaire and will be completed in May, 1994. A new and larger gift/bookstore will be completed in late 1993.

No changes are proposed.

The revised schedule reflects the terms of contract with the Zoological Society.

Construct a gift shop/bookstore located at or near a main gate with access from within and outside zoo grounds. Incorporate office space for Woodland Park Zoological Society.

C) RESTROOM FACILITIES AND OTHER AMENITIES

Additional restrooms are needed as well as pathways, water fountains and benches. New covered structures are also needed to shelter exhibit-viewing, picnic, and resting areas.

#829 ZOO VISITOR AMENITIES DESCRIPTION (1994): This project will provide drinking fountains, park furniture, new and/or remodeled restrooms, pathways, entries, special event and picnic areas, landscaping, and covered shelters for rest and viewing. The project will be phased over several years to mesh with the sequence of new exhibits and future increases in visitor attendance, but most of the project will be completed in 1993.

Because the various elements of this project are being developed over a long period of time, it is proposed that the budget be increased by \$425,000 to adjust for cost escalations.

No changes in scope or budget are proposed. The schedule is lengthened to reflect the project close-out period.

Redevelopment of west entry mall; improvement of north meadow for special events, improvement of existing restrooms (at water tower and family farm); provision of additional restrooms, pathways, benches, trails, bicycle racks, drinking fountains and more.

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

(D) GRAPHICS  
Satellite interpretive centers are needed at strategic locations throughout the zoo as well as a comprehensive signage and graphics program to orient and guide visitors and to explain specific exhibits.

(E) EATING FACILITIES  
Commission recommends the location of several covered eating facilities on the grounds to serve zoo customers and staff. Eating facilities should be designed to accommodate families with small children. At least one should be a sit-down facility, located to be convenient to zoo patrons and to minimize disruption and be compatible with Long-Range Plans. Satellite facilities to accommodate brown baggers. (SEE PROJECT #813)

(F) COVERED AREAS  
Provide additional covered facilities for exhibit viewing, pictures, resting during inclement weather. Included in C.

(This item is not separately identified in documents other than the Zoo Commission Report.)

(G) PARKING FACILITIES  
Present parking space is inadequate to accommodate zoo visitors, especially on peak attendance days. Commission acknowledged the potential community impact of parking lots and street parking, and recommended efforts to provide alternative transportation modes and to encourage visitor attendance during non-peak periods.

\$300 to study existing parking lot design at zoo to add to capacity without significant conversion of zoo area or park land perimeter to parking and to provide a new lot at the site of the existing elephant house.

\$400,000 to remove existing north lot (future Steppe Zone) and replace. Improvements to largely consist of modifying aisles, space width, and changes to entrance/exits and traffic flow to achieve most efficient design.

C.I.P. DESCRIPTION

#806 ZOO INTERPRETATION, GRAPHICS, SITE IMPROVEMENTS DESCRIPTION (1994): The zoo will establish satellite interpretive centers at strategic locations throughout the grounds and will design and implement a comprehensive signage and graphics program to orient and guide visitors and to explain specific exhibits. The interpretive program will be keyed to the overall bioclimatic zone themes of the zoo. This project will also provide signage and interpretive graphics for each exhibit developed throughout the 1986-96 period of the zoo bonds program.

#805 ZOO PARKING LOT IMPROVEMENTS DESCRIPTION (1991): This project will make improvements to the north and south parking lots at the zoo, including regulatory signage and equipment, striping, reconfiguration, paving, and drainage. The present 770 off-street parking spaces at the zoo cannot meet demand on peak visitor days, and there is no land available for additional parking lots. This project makes more efficient use of existing lots. In 1990, the Zoo Bond Oversight Committee recommended the \$125,000 budget increase to compensate for inflation in construction costs and to provide storm water detention at the north parking lot.

1990 REPROGRAMMING -- PROPOSED ACTION

No budget adjustment is being proposed. However, it is anticipated that funds for interpretation and graphics will be augmented by zoo sub-account funds on an incremental basis over the next several years.

Improvements are being made to the zoo's two primary lots (north and south). The existing inside north lot (future steppe zone) is not being removed as part of this project and instead is being used for a construction staging area and parking for interim administrative offices. The zoo's 10-year development plan reviewed the placement of additional parking spaces in the area of the old elephant exhibit and determined that the area would be better used as exhibit space in the future. Due to general cost escalation and the requirement to provide storm water detention in the north parking lot, it is proposed that the budget be augmented by \$125,000.

1993 REPROGRAMMING -- PROPOSED ACTION

No changes in scope or budget are proposed. The schedule is lengthened to reflect the project close-up period.

No changes are proposed.

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

<u>BUDGET</u>			<u>SCHEDULE</u>		<u>KEY ELEMENTS</u>	<u>Completed</u>	<u>Current Program</u>	<u>Deleted</u>	<u>Notes</u>
Original Allocation:	820	\$ 50,000	Original:	820	1990		X		
	822	500,000		822	1990-1991	X	X		
	Subtotal	\$ 550,000		813	1987-1989				
	813	900,000		829	1993-1995	X	X		
	829	1,300,000		806	1986-1987		X		
	806	1,200,000		805	1986-1987		X		
	805	\$ 300,000	1991 Reprogramming:	823	1989-1990				
	823	400,000		822	1991-1994				
	Subtotal	\$ 700,000		813	1987-1992				
				829	1988-1995	X			
Allocation (1990 C.I.F.):	820	\$ 70,000		806	1987-1996				
	822	739,000							
	813	841,000		805	1987-1991				
	Combined as 813	\$1,650,000		(includes 823)					
	829	\$1,238,000	1993 Reprogramming:	822	1991-1994				
	806	1,501,000		813	1987-1994				
	805 (includes 823)	679,000		829	1988-1996				
Allocation (1991 C.I.F.):	820	\$ 70,000		806	1987-1997				
	822	1,739,000							
	Combined as 822	\$1,809,000		805	1987-1991				
	813	841,000		(includes 823)					
	829	1,663,000							
	806	1,501,000							
	805 (includes 823)	804,000							
Proposed Allocation:	822	\$1,884,000							
	813	841,000							
	829	1,663,000							
	806	1,501,000							
	805	804,000							

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

2. PROJECTS NOT IDENTIFIED IN THE BOND LANGUAGE  
(continued)

1) MAJOR UTILITIES

#802 MAJOR UTILITIES  
DESCRIPTION (1991): This project will replace and/or renovate the old, fragmented, often inadequate utility systems at the zoo complex and provide new systems where needed to accommodate the 10-year zoo development program. The major site utilities include electrical, power, water service, sanitary and storm sewage disposal and/or treatment, solid waste handling, telecommunications, heating fuel supply, and related elements in the overall zoo-wide service network. Parts of the utility system have been completed and additional components will be constructed in stages through 1993. For the 1991 CIP, the Zoo Bond Oversight Committee proposed a \$1.5 million budget increase to complete the essential elements of the system.

The bond program failed to recognize the need for utility systems in areas of the zoo where they were not available or inadequate to support additional facilities. The major utilities project was created at the beginning of the development program by taking a percentage of each of the capital projects so that these utilities could be addressed in a comprehensive manner providing services to each of the various bond projects. This project never has contemplated nor does it have the funds necessary to provide any utilities off site. The on-site utility needs could easily amount to \$5,000,000. However, it is proposed to add \$1,500,000 to the project budget to provide only the essential connections for the various bond projects.

No changes are proposed.

BUDGET

SCHEDULE

KEY ELEMENTS

Completed

Current Program

Deleted

Notes

Original Allocation: \$ -0-  
Allocation (1990 C.I.P.): 2,004,000  
Allocation (1991 C.I.P.): 3,504,000  
Proposed Allocation: 3,504,000

1987-1993

Water System  
Improvements X  
Electrical X  
Natural Gas X  
Communications X  
Sewer X

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ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

12. PROJECTS NOT IDENTIFIED IN THE BOND LANGUAGE  
(continued)

(B) MAJOR UTILITIES

**#802 MAJOR UTILITIES**  
**DESCRIPTION (1993):** This project will replace and/or renovate the old, fragmented, often inadequate utility systems at the zoo complex and provide new systems where needed to accommodate the 10-year zoo development program. The major utilities include electrical power, water service, sanitary and storm sewage disposal and/or treatment, solid waste handling, telecommunications, heating fuel supply, and related elements in the overall zoo-wide service network. Parts of the utility system have been completed and additional components will be constructed in stages through 1993. In 1990, the Zoo Bond Oversight Committee recommended a \$1.5 million budget increase to complete the essential elements of the system.

The bond program failed to recognize the need for utility systems in areas of the zoo where they were not available or inadequate to support additional facilities. The major utilities project was created at the beginning of the development program by taking a percentage of each of the capital projects so that these utilities could be addressed in a comprehensive manner providing services to each of the various bond projects. This project never has contemplated nor does it have the funds necessary to provide any utilities off site. The on-site utility needs could easily amount to \$5,000,000. However, it is proposed to add \$1,500,000 to the project budget to provide only the essential connections for the various bond projects.

No changes are proposed.

BUDGET

SCHEDULE

KEY ELEMENTS

Completed

Current Program

Deleted

Notes

Original Allocation: \$ -0-  
 Allocation (1990 C.I.P.): 2,004,000  
 Allocation (1991 C.I.P.): 3,504,000  
 Proposed Allocation: 3,504,000

1987-1993

Water System X  
 Improvements X  
 Electrical X  
 Natural Gas X  
 Communications X  
 Sewer X

11129

ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

C.I.P. DESCRIPTION

1990 REPROGRAMMING -- PROPOSED ACTION

1993 REPROGRAMMING -- PROPOSED ACTION

PROJECTS NOT IDENTIFIED IN THE BOND LANGUAGE  
(continued)

ONE PERCENT OF ZOO BONDS FOR ART

#830 ONE PERCENT ZPCF ART  
DESCRIPTION (1994): An apportionment of one percent  
of the construction expenditures of all bond pro-  
ceeds (exclusive of private contributions) is set  
aside in this CIP project to provide for public  
works of art at the zoo to be integrated with

11129