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MOORPARK COLLEGE FACILITIES MASTER PLAN UPDATE AMERICA'S TEACHING ZOO MASTER PLAN

January 14, 2015

Gensler

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African Lions

America's Teaching Zoo
Hillside Theater

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1.0 INTRODUCTION

1.1 Project Overview

Project Purpose

1.2 Project Background

History

Timeline

1.3 Planning Process

Process Overview



1.1 Project Overview

Project Purpose & Description

Moorpark College is preparing a **Facilities Master Plan Update** to guide campus development over the next ten to fifteen years and to support the goals, aspirations and Educational Master Plan of the College. As part of this process, the College has identified the need for a new Master Plan for America's Teaching Zoo.

America's Teaching Zoo (ATZ) is located on the campus of Moorpark College, and supports the College's program in Exotic Animal Training and Management (EATM). The purpose of the **America's Teaching Zoo Master Plan** is to provide a framework for the development of the Zoo over the next decade, in concert with the Moorpark College Master Plan. It will accommodate the

physical facility needs of the EATM program, enhance animal welfare and support the Zoo's conservation and education programs.

Moorpark College is unique among California colleges and universities in that it is the only college to offer a program in Exotic Animal Training and Management as well as an on-campus zoo open to the public. The EATM program is distinguished from other community college programs in that over forty percent of the students in the program already have Associate Degrees and twenty-five percent of the students already have a Bachelor Degree. The program serves a diverse student population, ranging in age from recent high-school graduates to older

adults returning to school, and attracts students from around the world.

Since the EATM program was established in 1974, its graduates have built careers around the world in animal training, conservation and education. The ATZ Master Plan will ensure the continued growth and success of the EATM program and America's Teaching Zoo and support the educational mission of Moorpark College.



1.2 Project Background

History of America's Teaching Zoo

The Exotic Animal Training and Management (EATM) Program was established as a major at Moorpark College in 1974. For the first fifteen years, animals were housed in the "Lower Compound," a collection of animal enclosures constructed near the current football stadium.

In 1990, the EATM Compound was moved to its current location, on a 5 acre site overlooking all of the Moorpark College campus. Animal enclosures were built, and new enclosures are consistently being constructed and updated.

The animal collection has gradually increased over the years as animals were acquired through donations and breeding loans from major zoos and research centers. This extraordinary collection has included exotic animals ranging from marmosets to an Asian elephant, leopard geckos to alligators, turacos to emus. The Zoo is currently home to African lions, spotted hyenas, mountain lions, a wide variety of primates, birds, and many other exotic and endangered animals. New animals are continuously being acquired, as space allows.

As the animal collection grew, so did the program. New courses were developed and enrollment increased. Today, Moorpark College graduates can be found at zoos, aquariums, museums and animal parks around the country, training and caring for exotic animals and educating the public about animals and conservation.

[Excerpted from the Moorpark College website]

Timeline

Information Provided by Moorpark College

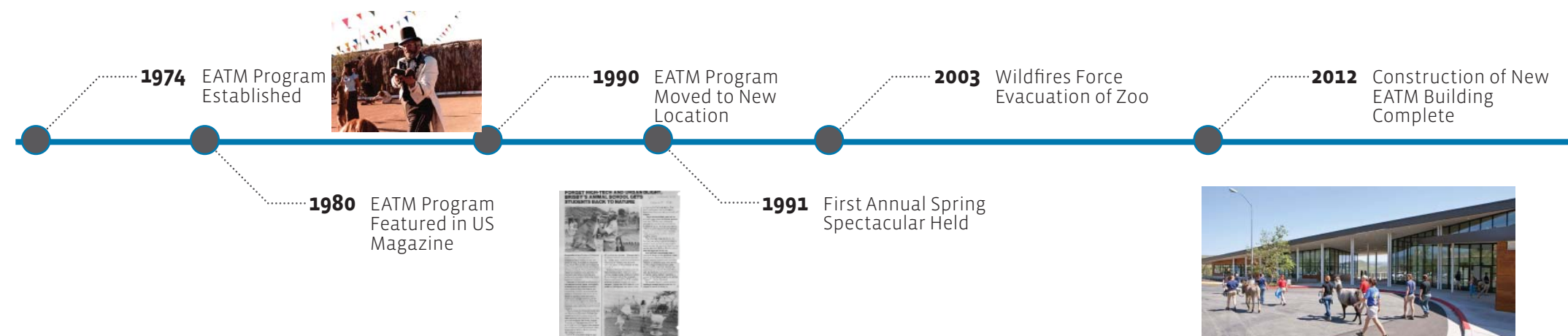


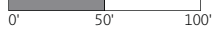




Fig 1.1
Aerial View

 Zoo Perimeter

 N Scale 1" = 100'-0" @ 11"x17"
 0' 50' 100'

1.3 Planning Process

Process Overview

The planning process is organized into five major tasks. Collaboration and input from ATZ / EATM faculty and staff was integrated into the process at each phase.

Project Start Up

The planning process began with a Kick-Off Meeting and Vision Session, which set the stage for ongoing collaboration. At this meeting the consultant team and ATZ / EATM staff worked to establish a vision for the project; identify strengths, weakness, opportunities and threats; and set goals and priorities for the future development of the Zoo.

Existing Site Conditions Analysis

Beginning with an initial site visit, the consultant team has researched and reviewed the existing physical conditions and planning issues. The following chapter summarizes the findings of that analysis, which formed a basis for the development of a Program and Master Plan Options.

Program Analysis

Working with the ATZ / EATM faculty, staff and administrators, the consultant team has evaluated and documented the existing and projected facility needs for the Zoo. The findings of this Program Analysis are presented in Chapter Three of this report, and provided the basis for the development of the Master Plan Options, detailed in Chapter Six.

Master Plan Options

Incorporating the findings of the Existing Conditions Analysis and Program Analysis, the consultant team developed three preliminary Master Plan Options that demonstrate various ways of achieving the goals and principles identified. These planning options illustrate alternatives for land use, circulation and open space. Working together, faculty, staff and administrators and the consultant team evaluated the various approaches and selected a preferred option, which formed the foundation of the final Master Plan detailed in Chapters Seven and Eight.

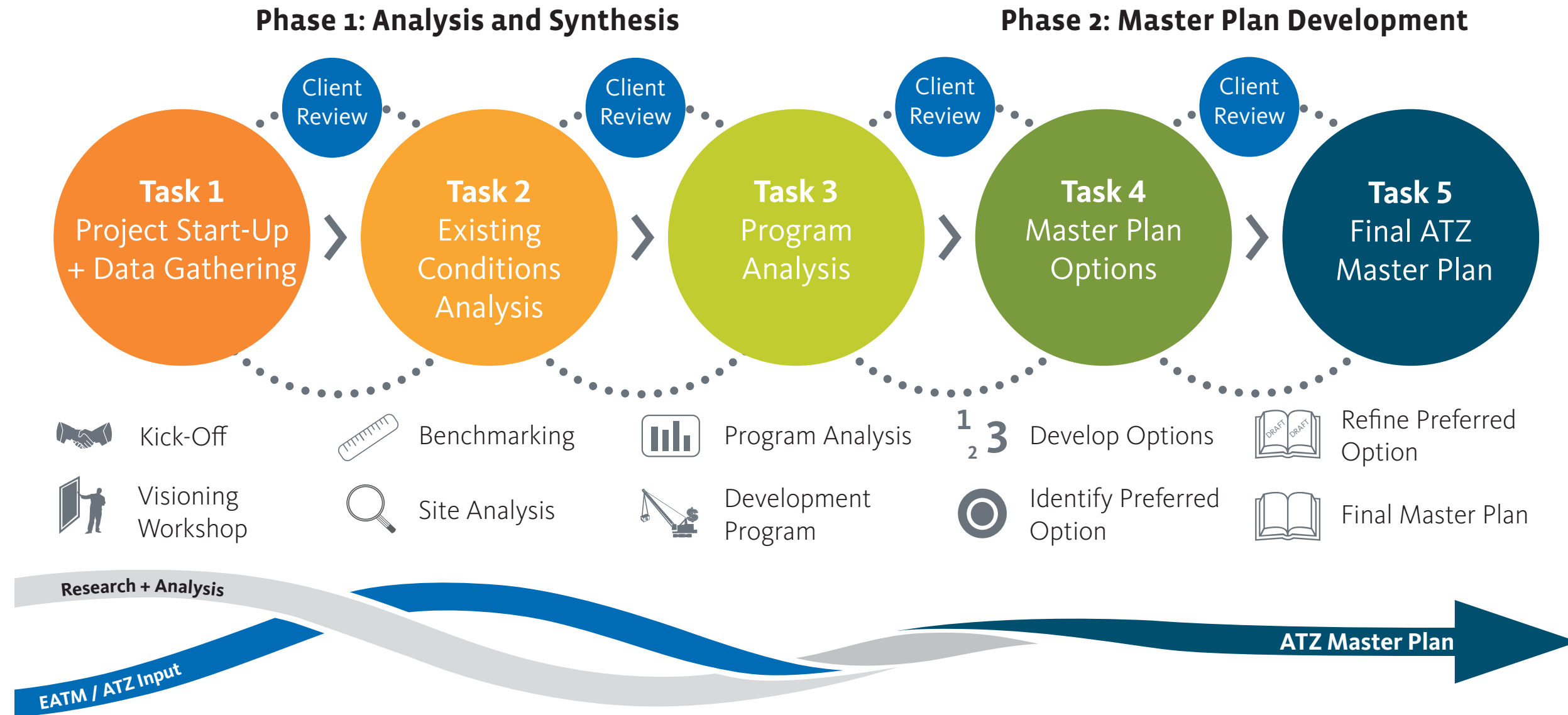


Fig 1.2
Planning Process



The Wilson Family
Carnivore Habitat

African Lions



America's Teaching Zoo
Hillside Theater



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2.0 EXISTING CONDITIONS

2.1 Campus Context

- Overview
- Organization
- Project Location

2.2 Built Systems

- Facility Overview
- Facility Condition
- Facility Use
- Infrastructure & Utilities

2.3 Natural Systems

- Topography
- Landscape & Open Space
- Trees

2.4 Visitor Experience

- Amenities
- Animal Exhibits
- Views



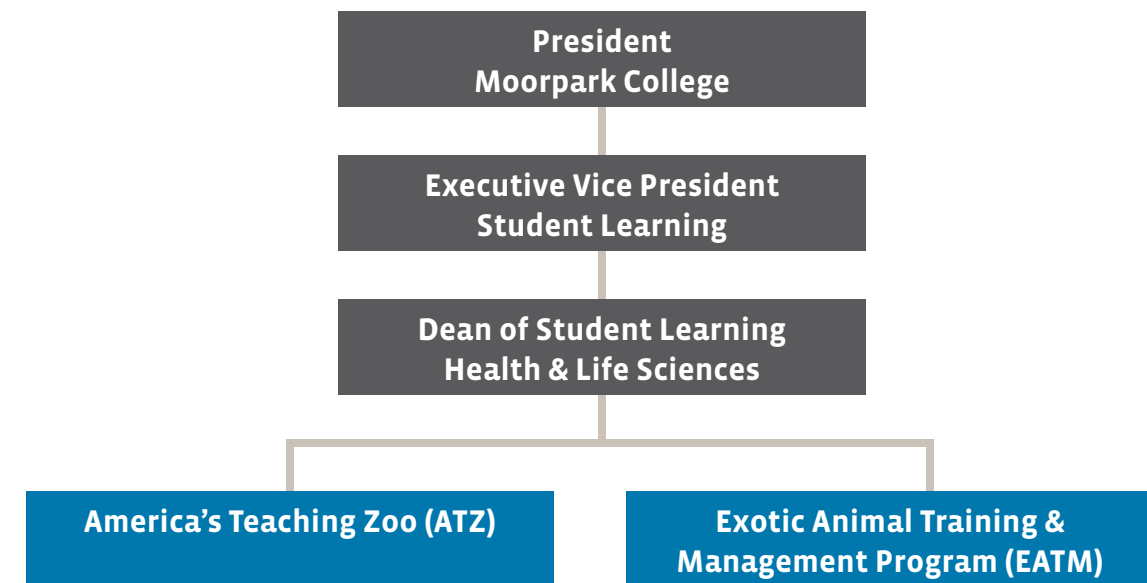
2.1 Campus Context

Overview

America's Teaching Zoo is located in Moorpark, California on the campus of Moorpark College, one of three campuses of the Ventura County Community College District. The Zoo occupies five acres of the 150-acre campus. The EATM Building and Zoo are located to the west of the academic core of the campus, on a ridge overlooking the athletic facilities to the south.

The Zoo is operated in concert with the Exotic Animal Training and Management Program, both of which are overseen by the Dean of Student Learning for Health and Life Sciences.

Organization



Project Location

California
(38.3 Million Residents)

Ventura County
(823,000 Residents)

City of Moorpark
(31,415 Residents)

Moorpark College
Campus Master Plan Study Area
(150 acres)

America's Teaching Zoo
Master Plan Study Area
(5 acres)

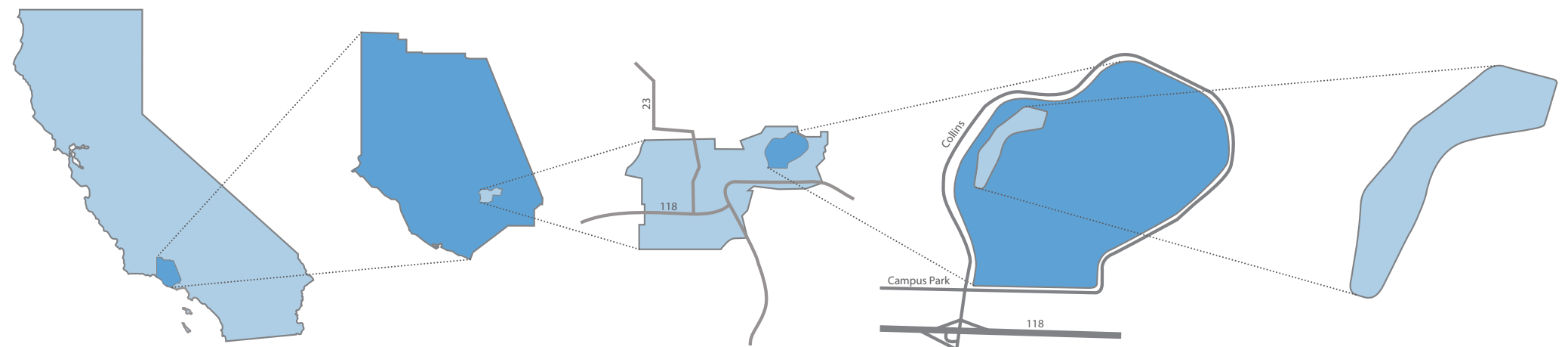




Fig 2.1
Existing Campus

Facilities

- (COM) Communications Building
- (PA) Performing Arts Building
- (A) Administration Building
- (HSS) Humanities / Social Sciences Building
- (M) Music Building
- (FH) Fountain Hall
- (LLR) Library Learning Resources
- (PS) Physical Sciences Building
- (T) Technology / Business Building
- (LMC) Life Sciences / Math Building
- (HSC) Health Science Center
- (SSC) Student Services Annex
- (CC) Campus Center
- (AA) Applied Arts Building
- (CDC) Child Development Center
- (AC) Academic Center
- (G) Gymnasium
- (EATM) EATM Building
- (ATZ) America's Teaching Zoo
- ① Observatory
- ② Parking Structure
- ③ Maintenance / Operations Center
- ④ Baseball Field
- ⑤ Griffin Stadium
- ⑥ Field Hockey Stadium



Scale 1" = 400'-0" @ 11"x17"
0' 200' 400'

2.2 Built Systems

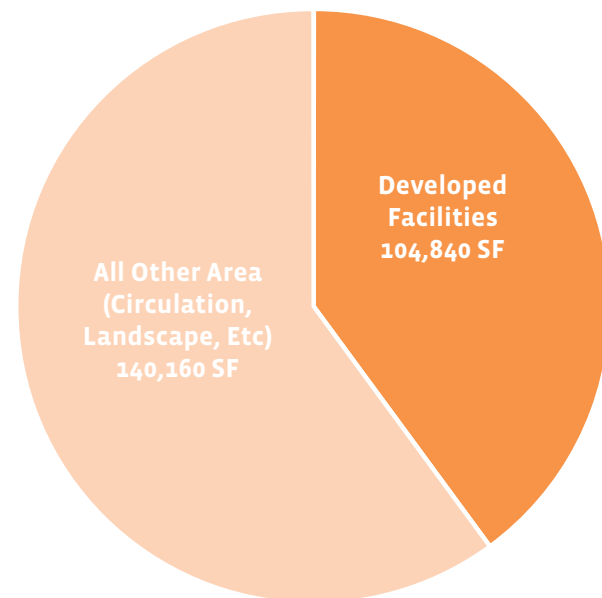
Facility Overview

America's Teaching Zoo encompasses approximately 245,000 square-feet of site area within the current boundaries of the Zoo.

Existing facilities encompass a total area of 104,840 square-feet, covering approximately 40% of the site area within the current Zoo boundary (these figures do not include the EATM Building, which is located outside of the Zoo boundary).

The remaining 60% of the site area is comprised of open space, circulation and landscaped area, as well as undeveloped area.

Site Coverage



Existing Facilities by Area

Facility Number	Facility Name	Existing Net Total Area	Existing Service / Circulation Area	Existing Gross Total Area
1	Zoo Building 1	1,775 SF	N/A	1,775 SF
2	Zoo Building 2	2,820 SF	N/A	2,820 SF
3	Main Theater	8,400 SF	N/A	8,400 SF
4	Picnic Area [Undeveloped]	2,060 SF	N/A	2,060 SF
5	Small Tortoise Exhibit	650 SF	N/A	650 SF
6	Workshop Area	1,600 SF	N/A	1,600 SF
7	Avian Facility (Parrot Gardens)	2,508 SF	12,401 SF	14,909 SF
8	Show Animal Facility	2,472 SF	4,952 SF	7,424 SF
9	Carnivore Facility	4,472 SF	6,657 SF	11,129 SF
10	Small Theater	3,800 SF	N/A	3,800 SF
11	Butterfly Conservation Station	400 SF	600 SF	1,000 SF
12	Domestic Hoofstock Facility	4,641 SF	6,180 SF	10,821 SF
13	Birds of Prey Exhibit	Included in Animal Maintenance		
14	Animal Maintenance	2,130 SF	5,950 SF	8,080 SF
15	Hay Barn / Treatment Room	1,458 SF	N/A	1,458 SF
16	Commissary	1,130 SF	N/A	1,130 SF
17	Primate Gardens	3,540 SF	12,510 SF	16,050 SF
18	Quarantine Area	1,400 SF	10,350 SF	11,750 SF
19	Alligator Habitat	360 SF	N/A	360 SF
20	Galapagos Tortoise Exhibit	1,200 SF	N/A	1,200 SF
21	Aviary	1,500 SF	N/A	1,500 SF
22	Recreation Lawn [Undeveloped]	2,500 SF	N/A	2,500 SF
23	EATM Building [Not Included]			

Note: Picnic Area and Recreation Lawn areas shown for information only. These facilities are not included as developed facilities.

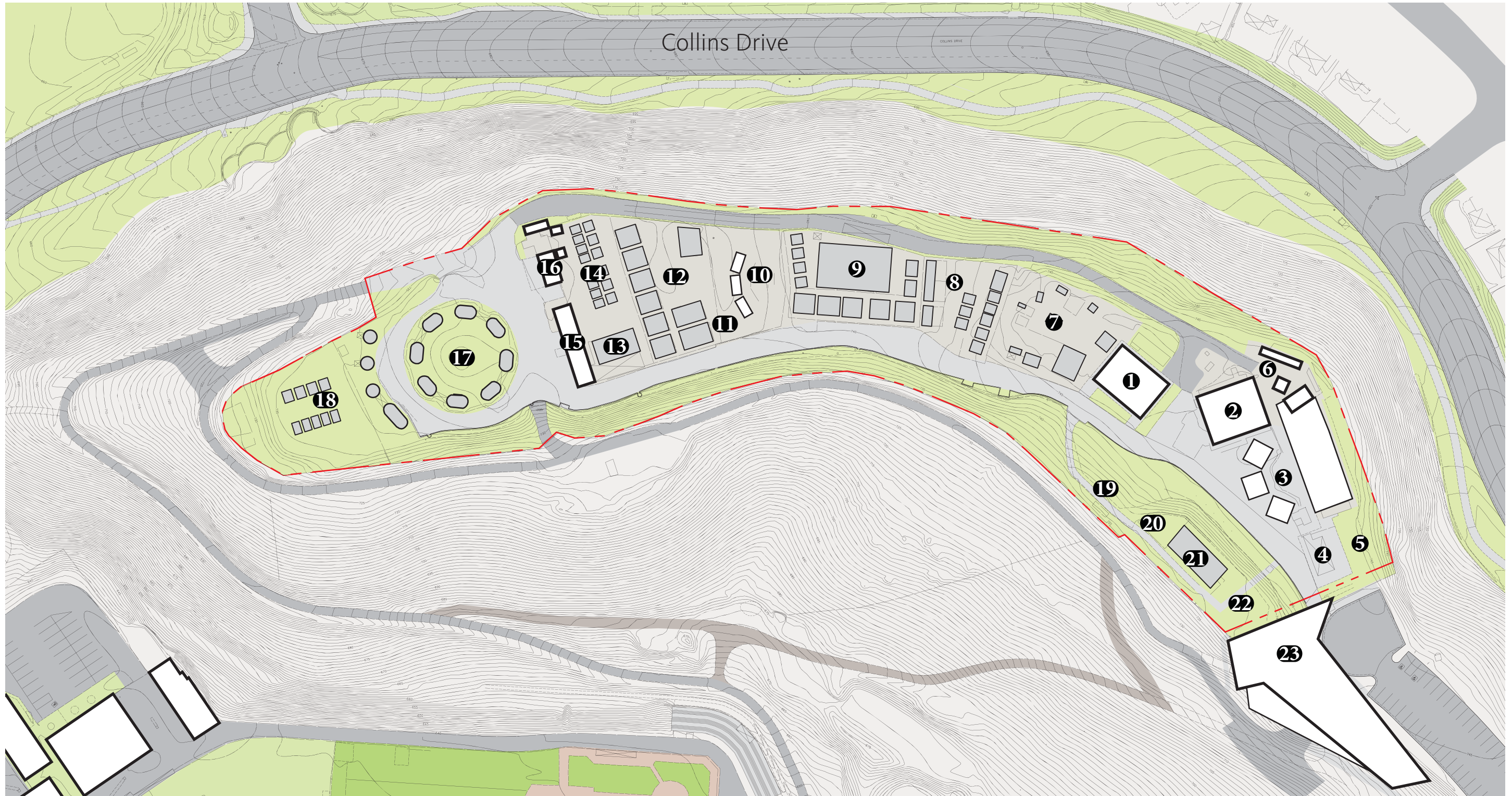


Fig 2.2
Facilities

- | | | | | |
|--------------------------|--------------------------|-----------------------------|------------------------------|------------------------|
| ① Zoo Building 1 | ⑦ Parrot Gardens | ⑬ Birds of Prey Exhibit | ⑲ Alligator Exhibit | Existing Building |
| ② Zoo Building 2 | ⑧ Show Animal Area | ⑭ Animal Maintenance | ⑳ Galapagos Tortoise Exhibit | Existing Exhibits |
| ③ Main Theater | ⑨ Carnivore Area | ⑮ Hay Barn / Treatment Room | ㉑ Aviary | Existing Zoo Perimeter |
| ④ Picnic Area | ⑩ Small Theater | ⑯ Commissary | ㉒ Recreation Lawn | |
| ⑤ Small Tortoise Exhibit | ⑪ Butterfly Conservation | ⑰ Primate Gardens | ㉓ EATM Building | |
| ⑥ Workshop Area | ⑫ Hoofstock Area | ⑱ Quarantine Area | | |
- Scale 1" = 100'-0" @ 11"x17"
 0' 50' 100'

Built Systems

Facility Use

Existing facilities can be categorized in three generalized uses: Animal Housing and Care facilities, Zoo Operations facilities, and Guest Services and Education facilities.

Animal Housing and Care facilities include animal enclosures and the associated service and circulation area enclosed within the secondary barrier of the facility. Animal Housing and Care facilities comprise the majority of the developed area within the Zoo, encompassing a total area of 61,400 square -feet. Of this area, approximately 30% is dedicated to animal enclosures and 70% is used for service and circulation.

Zoo Operations facilities include areas used by ATZ staff as well as EATM students, such as the classrooms and staff offices housed in Buildings Zoo 1 and Zoo 2, the workshop area, the commissary and veterinary treatment room. Zoo Operations facilities comprise approximately 20% of facilities, by area, and include a total area of 19,600 square-feet.

Guest Services and Education facilities include areas primarily used for zoo visitors, such as the picnic area and theatres. In total, these facilities comprise approximately 17% of facilities, by area, and include 16,800 square-feet of area.

Existing Uses by Area

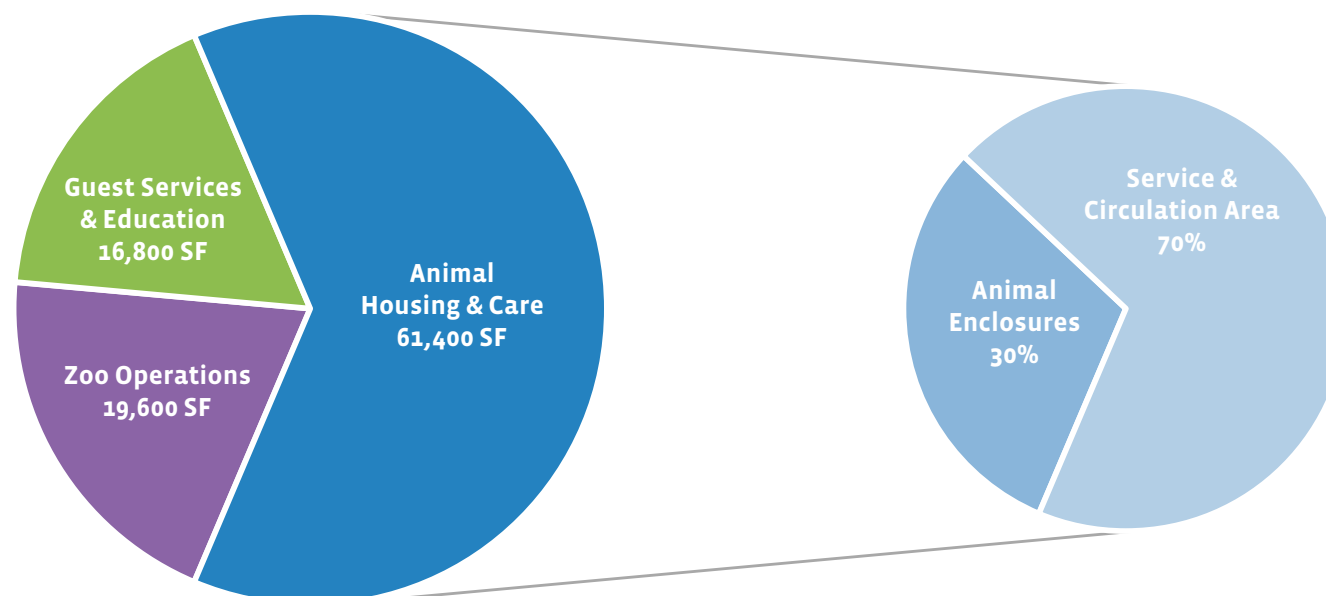




Fig 2.3
Facility Use

- | | | | | |
|--------------------------|---------------------------|------------------------------|-------------------------------|----------------------------|
| 1 Zoo Building 1 | 7 Parrot Gardens | 13 Birds of Prey Exhibit | 19 Alligator Exhibit | Animal Housing / Care |
| 2 Zoo Building 2 | 8 Show Animal Area | 14 Animal Maintenance | 20 Galapagos Tortoise Exhibit | Zoo Operations |
| 3 Main Theater | 9 Carnivore Area | 15 Hay Barn / Treatment Room | 21 Aviary | Guest Services / Education |
| 4 Picnic Area | 10 Small Theater | 16 Commissary | 22 Recreation Lawn | |
| 5 Small Tortoise Exhibit | 11 Butterfly Conservation | 17 Primate Gardens | 23 EATM Building | |
| 6 Workshop Area | 12 Hoofstock Area | 18 Quarantine Area | | |
- N
Scale 1" = 100'-0" @ 11"x17"
0' 50' 100'

Built Systems

Facility Condition

Based on an analysis by EATM and ATZ faculty and staff, over 80% of facilities are in need of replacement or repair, with 30% of existing facilities ranked “poor.” Approximately 20% of existing facilities are in “good” condition and require only minor upgrades or improvements to continue serving their use.

Animal Housing and Care facilities include a greater percentage of poor condition facilities, with the plurality of Animal Housing and Care facilities rated “poor.” In particular, the Aviary, Mews and Carnivore Facility were all identified as facilities in need of replacement. In contrast, the

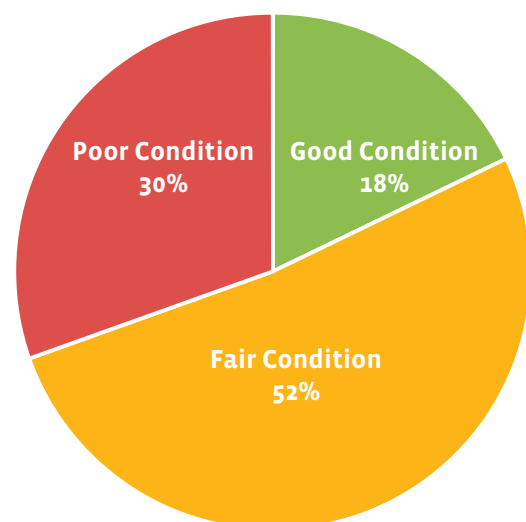
Primate Gardens and Alligator Exhibit were cited as among the best facilities in the Zoo.

Zoo Operations facilities include a greater percentage of fair condition facilities, with over 60% of Zoo Operations facilities rated “fair.” Of note, the only office and rest room facilities on site were rated “poor.” Zoo Operations and the EATM program also utilize the EATM building, which is located outside of the current perimeter of the Zoo and is not included in this analysis.

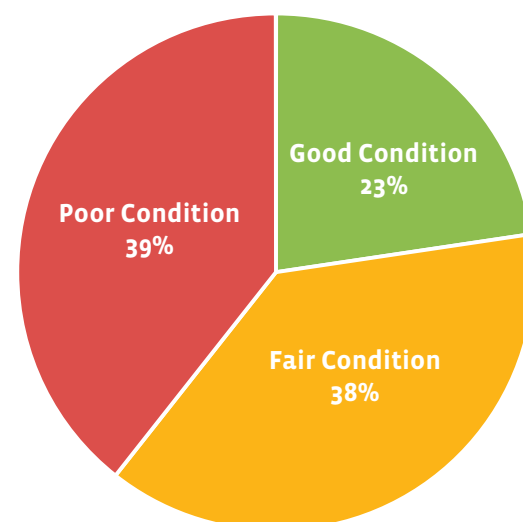
Guest Services and Education facilities were all rated “fair,” however certain elements of these

facilities, such as the backstage area of the main theatre, were rated “poor.” There is also the need for additional facilities to serve program elements that currently cannot be accommodated on the site.

All Facilities



Animal Housing & Care Facilities Only



Zoo Operations Facilities Only

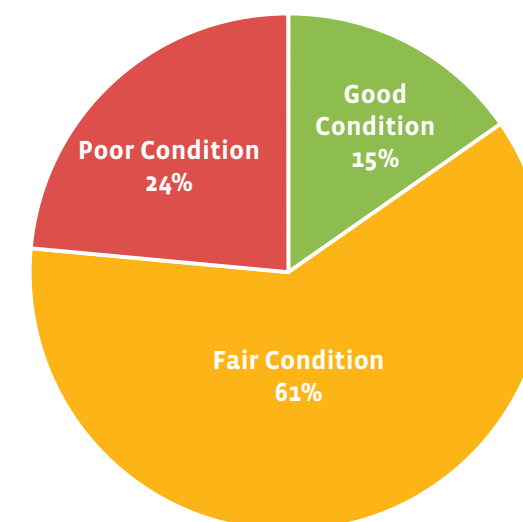




Fig 2.4
Facility
Condition

- | | | | | |
|--------------------------|--------------------------|-----------------------------|------------------------------|------------------|
| ① Zoo Building 1 | ⑦ Parrot Gardens | ⑬ Birds of Prey Exhibit | ⑲ Alligator Exhibit | ■ Good Condition |
| ② Zoo Building 2 | ⑧ Show Animal Area | ⑭ Animal Maintenance | ⑳ Galapagos Tortoise Exhibit | ■ Fair Condition |
| ③ Main Theater | ⑨ Carnivore Area | ⑮ Hay Barn / Treatment Room | ㉑ Aviary | ■ Poor Condition |
| ④ Picnic Area | ⑩ Small Theater | ⑯ Commissary | ㉒ Recreation Lawn | |
| ⑤ Small Tortoise Exhibit | ⑪ Butterfly Conservation | ⑰ Primate Gardens | ㉓ EATM Building | |
| ⑥ Workshop Area | ⑫ Hoofstock Area | ⑱ Quarantine Area | | |
- N Scale 1" = 100'-0" @ 11"x17"
 0' 50' 100'

Built Systems

Utilities

America's Teaching Zoo is serviced by existing infrastructure and is connected to the utility systems of the Moorpark College campus. In general, mainline utilities are located underground beneath the main Zoo road and the unpaved service road located just outside of the Zoo perimeter.

Storm-water runoff and runoff from Zoo operations, including cleaning animal enclosures, is captured and filtered through a bioswale before being discharged into the municipal sewer system.

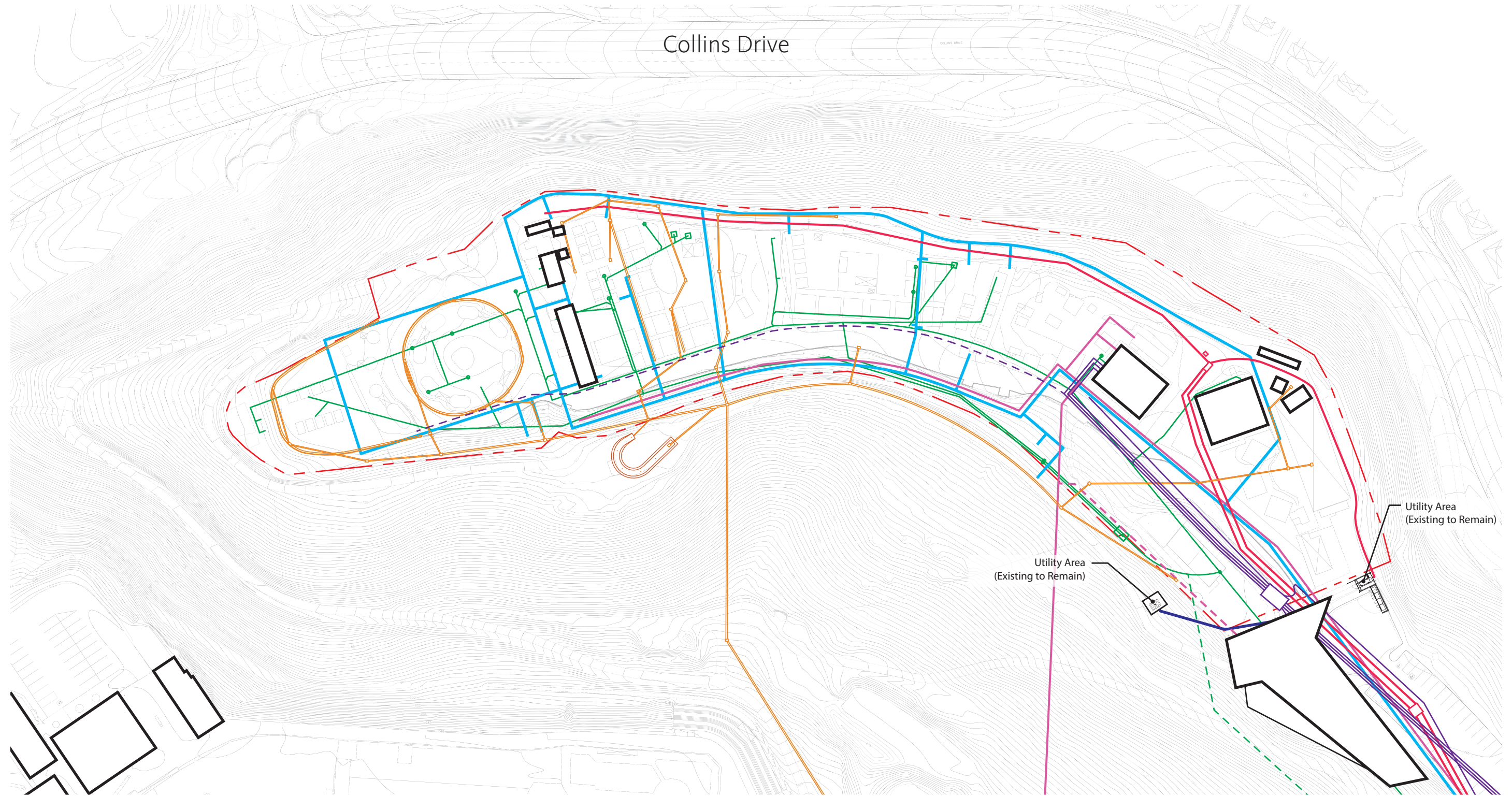


Fig 2.5
Utilities & Infrastructure

Electricity	Water	Existing Building
Telecomm	Chilled Water	Existing Zoo Perimeter
Gas	Sewer	
	Storm Drain	

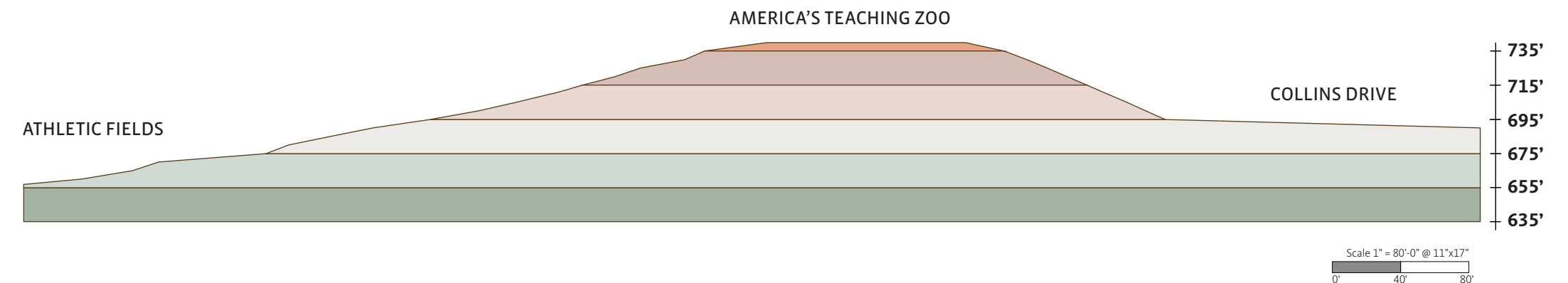
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0' 50' 100'

2.3 Natural Systems

Topography

America's Teaching Zoo is located along the top of a ridge, overlooking the athletic fields to the south and the Campus Hills residential area to the north. While the project site is generally flat, steep down slopes to the north and south of the site affect development opportunities beyond the current Zoo perimeter.

Section View



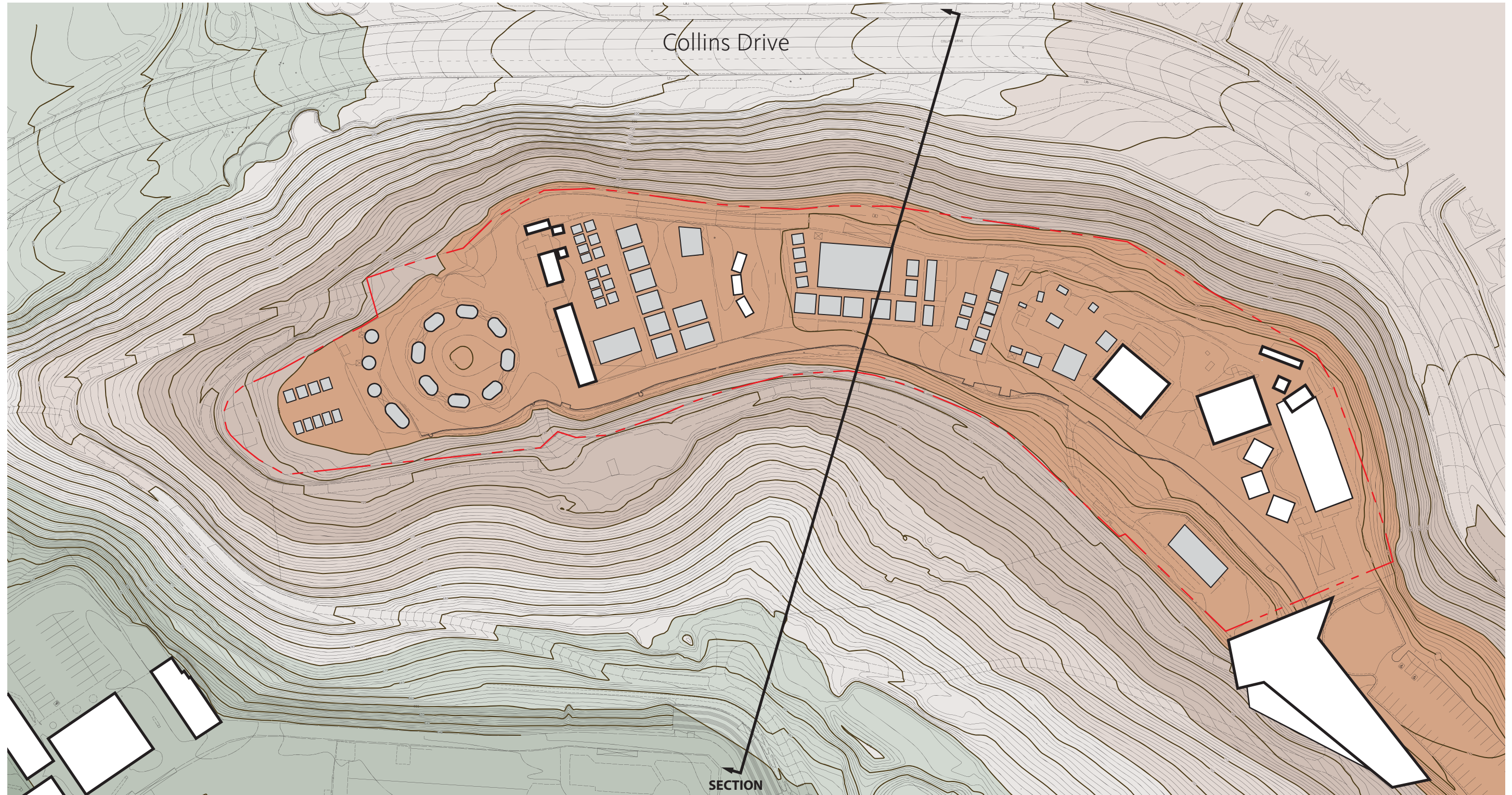
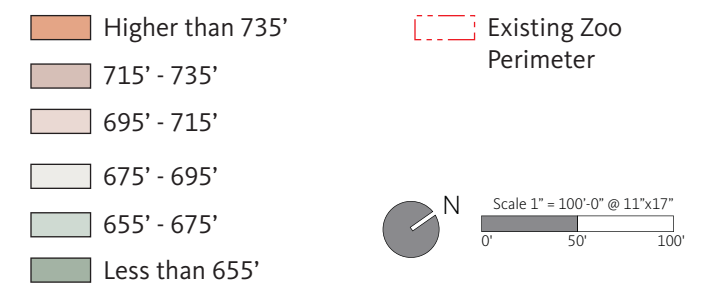


Fig 2.6
Topography



Natural Systems

Landscape & Open Space

America's Teaching Zoo features a varied landscape with established plants and trees and multiple open spaces. The existing landscape includes both native and introduced plant species, many of which are used to provide food and browse for the animal collection. Mature existing trees provide shade cover in some areas that is essential to the comfort and well-being of both visitors and animals.

Open spaces include both landscaped and paved areas across the site, with asphalt paving dominating the visitor areas along the animal enclosures.

Existing Landscape

American Agave



Rose Garden



Orange Tree Citrus sinensis



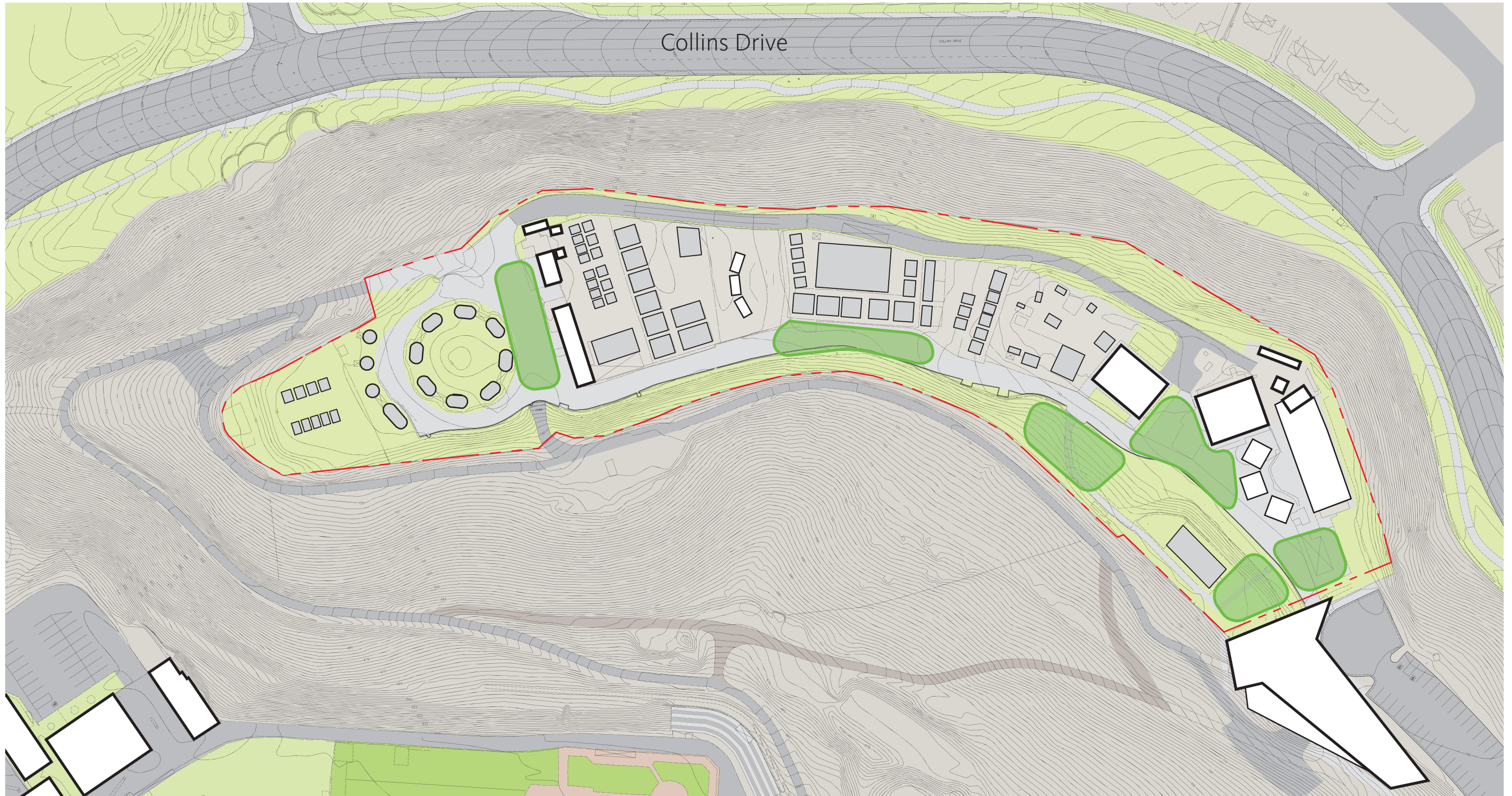
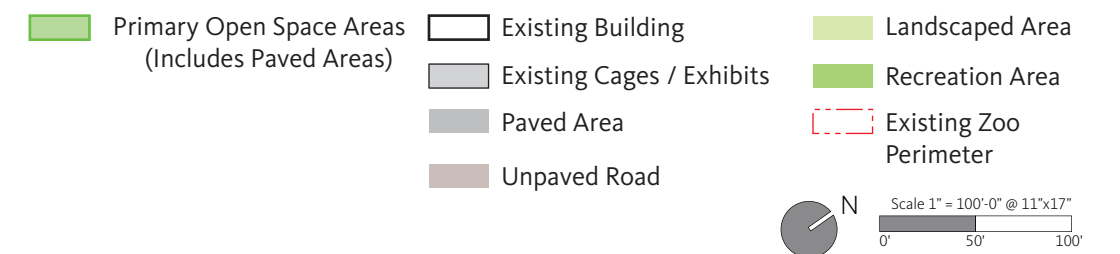


Fig 2.7
Landscape & Open Space



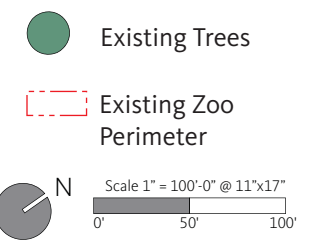
Natural Systems

Existing Trees





Fig 2.8
**Existing
Tree Plan**



2.4 Visitor Experience

Access and Circulation

Primary access to America's Teaching Zoo is provided through the existing surface parking areas located at the north end of the Moorpark College campus. In general, students, staff and visitors enter the site through pedestrian and vehicular gates located adjacent to the EATM Building (Gates 1A and 1B). Secondary service access is also provided through Gates 2 and 3, located at the opposite end of the site.

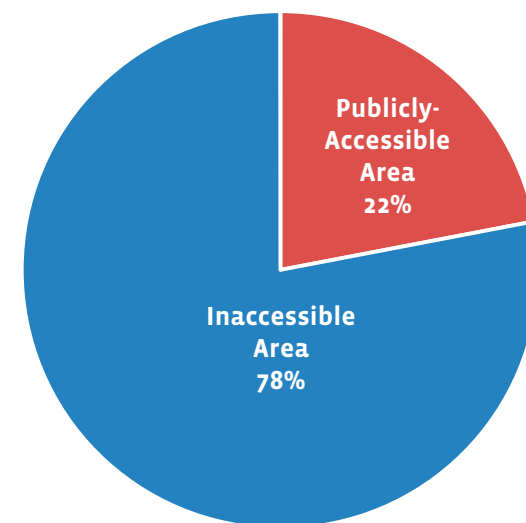
Access and circulation within America's Teaching Zoo is provided by two roadways running the length of the site. The main roadway, also known as the Front Road, is used for both visitor

circulation and service access. This results in conflicts between visitors and service vehicles. It also requires visitors to double back along the same route to exit the Zoo. The second roadway, known as the Back Road, is not open to the public, and is used exclusively for service. Primary access to the animal enclosures for students and staff is provided by the Back Road.

In general, school groups and summer camp groups are escorted through the Zoo by staff or students. Other visitors are allowed to explore the Zoo unaccompanied during the hours when the zoo is open to the general public on

weekends. Public access throughout the site is restricted in order to protect the safety of both visitors and animals, and to allow for students and staff to perform their work. Of the total area within the Zoo perimeter, only approximately twenty percent is publicly-accessible, while approximately eighty percent is restricted to student and staff only.

Public Access



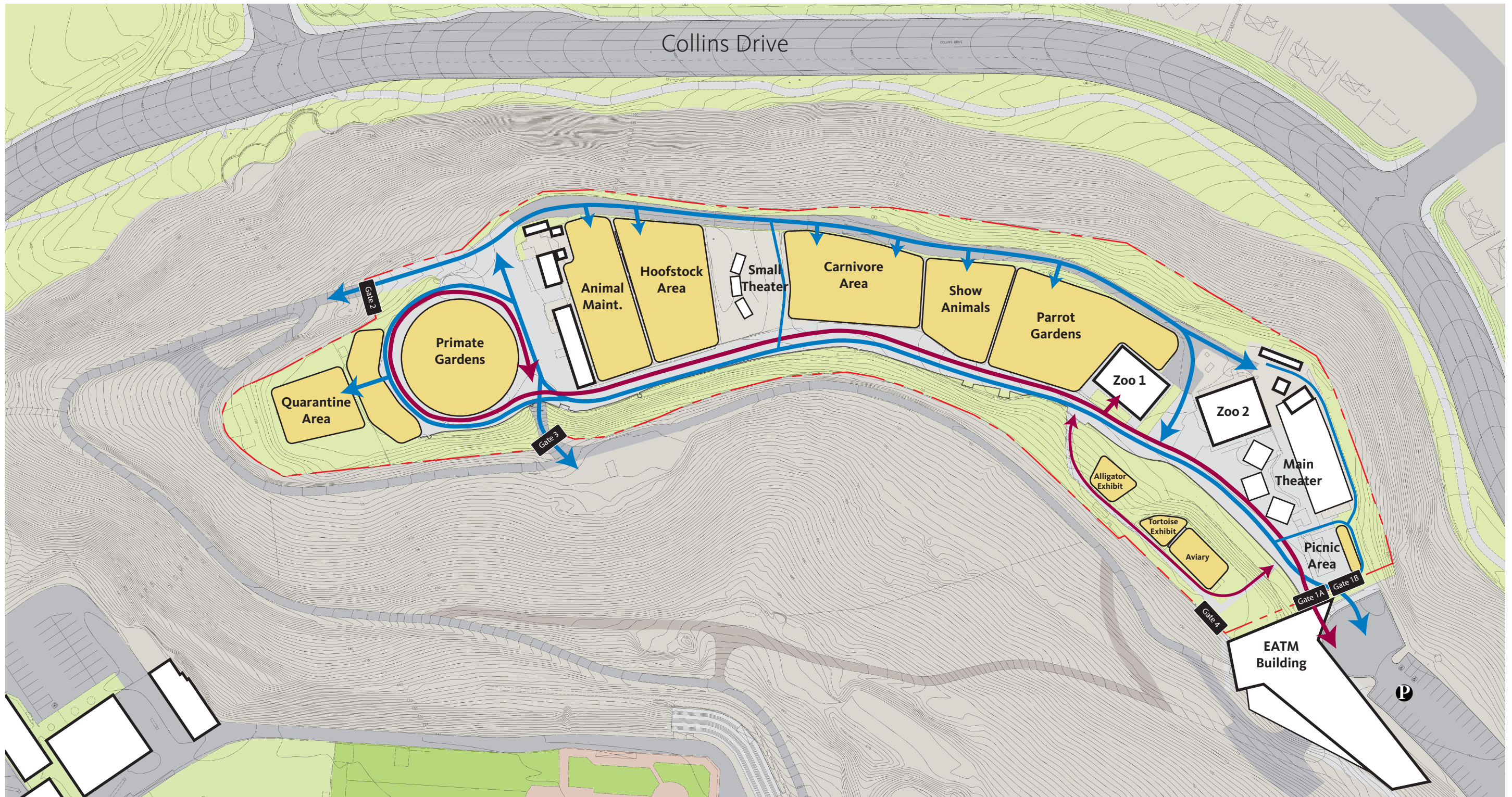
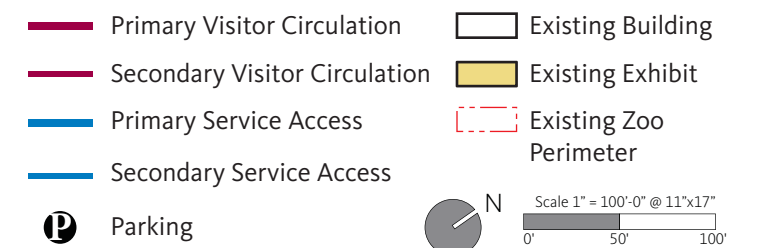


Fig 2.9
Access & Circulation



Visitor Experience

Amenities

Currently, America's Teaching Zoo offers limited visitor amenities. Amenities are concentrated at the east end of the site. While the Zoo provides a picnic area and recreation area, there is no food service offered. Restroom facilities are limited and in poor condition.

Animal Exhibits

Existing animal exhibits are organized linearly along the site, with primary visitor viewing from the Front Road. While some exhibits allow visitors to view animals up-close, such as the Carnivore Exhibit, many exhibits feature obstructed views with multiple layers of chain-link fencing and animal enclosures oriented away from visitor areas.

Views

The Zoo site affords visitors panoramic views of lower Moorpark College campus, Simi Hills and Big Mountain. Primary views to the south are provided from multiple points on the Front Road while more limited views to the north are provided from the Back Road.

Visitor Amenities

Picnic Area



Recreation Area



Visitor Restrooms



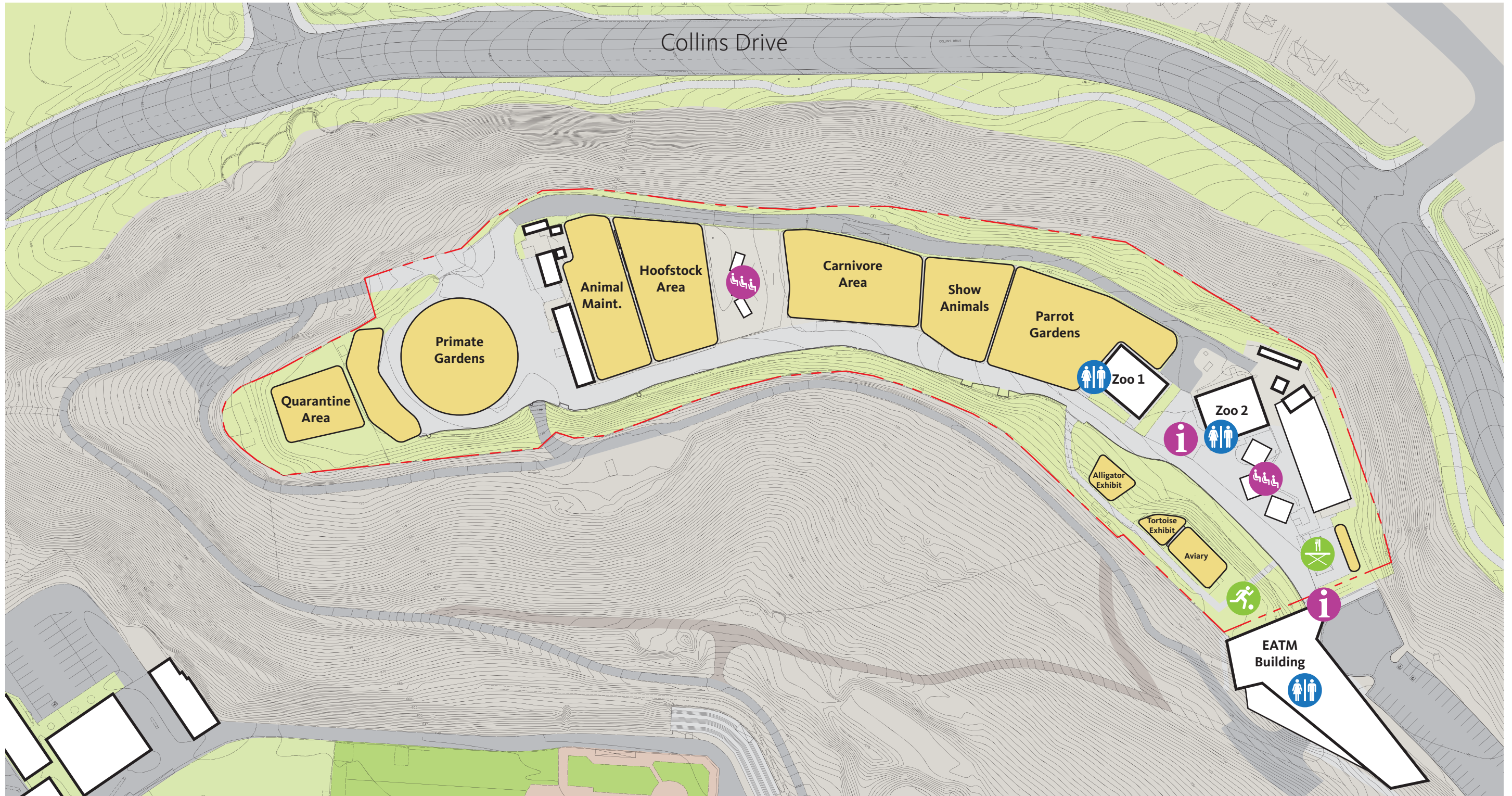
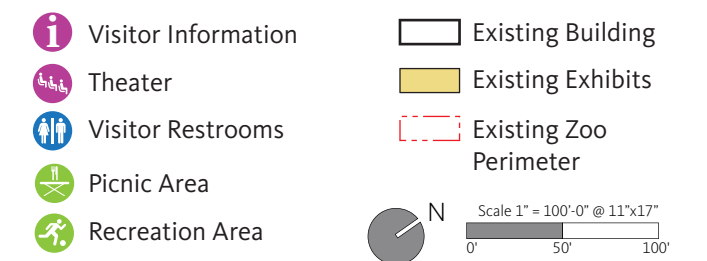


Fig 2.10
Visitor Amenities



Visitor Experience

Animal Exhibits

1 Parrot Gardens Exhibit



2 Show Animals Exhibit



3 Carnivore Exhibit



4 Butterfly Conservation Station



5 Birds of Prey Exhibit



6 Primate Gardens Exhibit





Fig 2.11
Animal Exhibits

- Vantage Point
- View Corridor
- Existing Building
- Existing Exhibits
- Existing Zoo Perimeter

N
Scale 1" = 100'-0" @ 11"x17"
0' 50' 100'

Visitor Experience

Views

1 View from Alligator Exhibit



2 View from Parrot Gardens



3 View from Parrot Gardens



4 View from Parrot Gardens



5 View from Birds of Prey Exhibit



6 View from Birds of Prey Exhibit



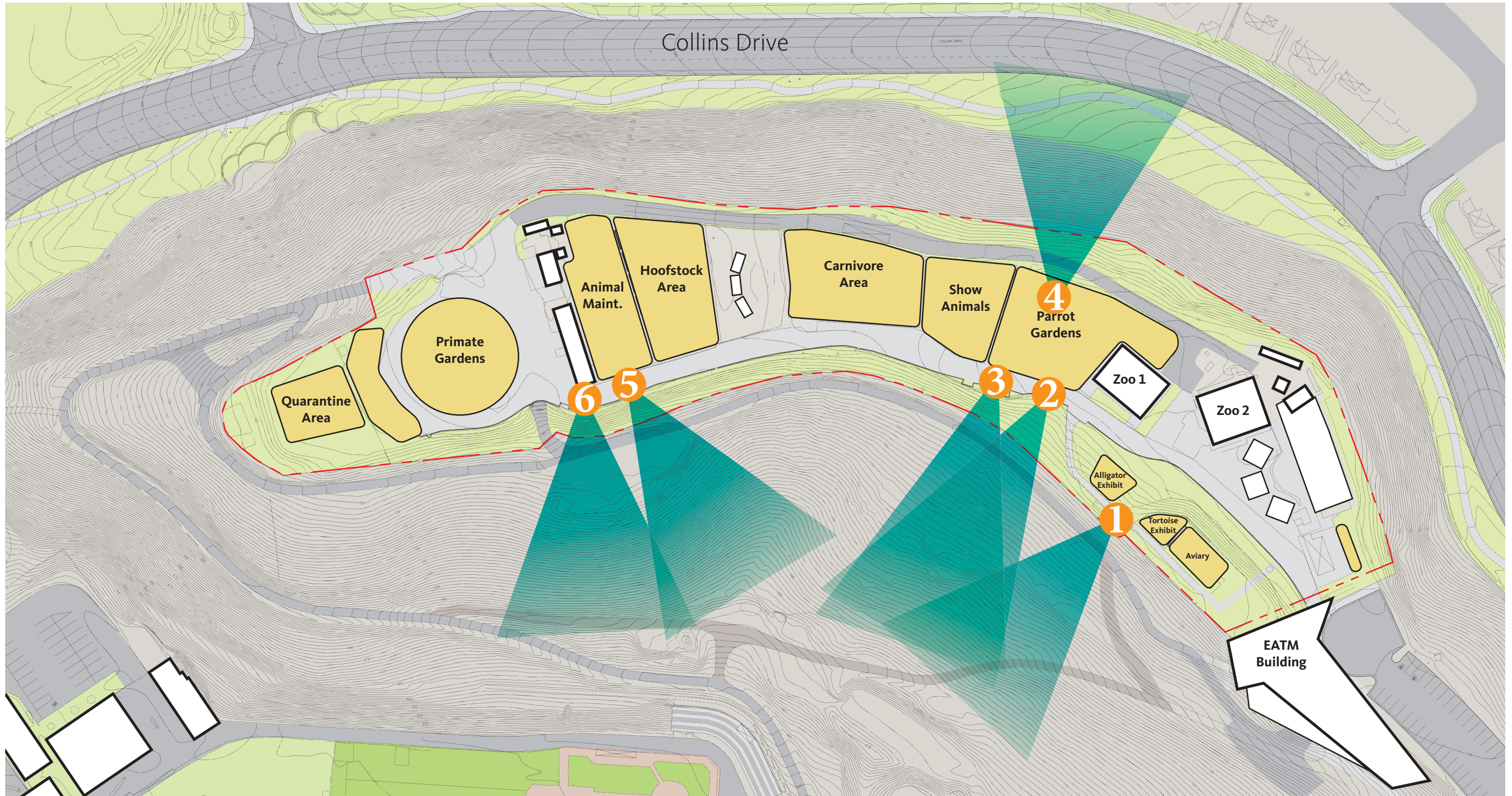
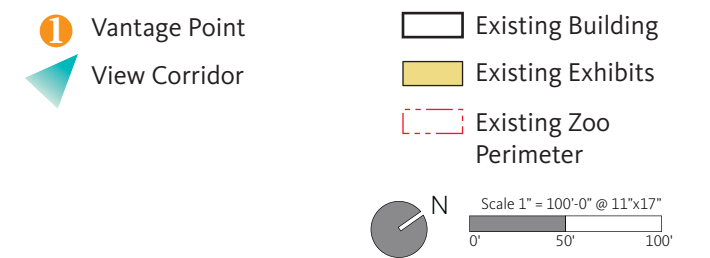


Fig 2.12
Views





The Wilson Family
Carnivore Habitat

African Lions



America's Teaching Zoo
Hillside Theater



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3.0 DEVELOPMENT PROGRAM

3.1 Overview

Development Program

3.2 Zoo Operations & Management

Existing Facilities

Proposed Facilities

3.3 Animal Housing & Care

Existing Facilities

Proposed Facilities

3.4 Guest Services & Education

Existing Facilities

Proposed Facilities



3.1 Overview

Development Program

The future development of America's Teaching Zoo will require changes to the Zoo's existing physical facilities. While some facilities will be maintained and enhanced, others may be extensively renovated, relocated, or removed and replaced with new facilities. The potential disposition of facilities is informed by the existing conditions analysis and an understanding of the physical condition and functional performance of existing facilities. The proposed disposition plan, to the right, illustrates which facilities are recommended be retained, renovated or replaced.

The development program, detailed in the following sections, quantifies the size of existing and proposed facilities, as well as the program elements contained in each facility. In general, facilities are organized in three categories: Zoo Operations and Management facilities, which include staff offices and student areas; Animal Housing and Care facilities, which include animal enclosures and exercise areas; and, Guest Services and Education facilities, which include theatres recreational areas, and visitor amenities.



Fig 3.1
Proposed Disposition

- | | | | |
|--------------------------|---------------------------|------------------------------|-------------------------------|
| 1 Zoo Building 1 | 7 Parrot Gardens | 13 Birds of Prey Exhibit | 19 Alligator Exhibit |
| 2 Zoo Building 2 | 8 Show Animal Area | 14 Animal Maintenance | 20 Galapagos Tortoise Exhibit |
| 3 Main Theater | 9 Carnivore Area | 15 Hay Barn / Treatment Room | 21 Aviary |
| 4 Picnic Area | 10 Small Theater | 16 Commissary | 22 Recreation Lawn |
| 5 Small Tortoise Exhibit | 11 Butterfly Conservation | 17 Primate Gardens | 23 EATM Building |
| 6 Workshop Area | 12 Hoofstock Area | 18 Quarantine Area | |
- Proposed Demolition
 Proposed Relocation
 Existing to Remain
- N
 Scale 1" = 100'-0" @ 11"x17"
 0' 50' 100'

3.2 Zoo Operations & Management

Existing Facilities

Existing Zoo Operations and Management Facilities are clustered in two areas on the project site, while individual program elements are divided between multiple facilities. This division creates inefficiencies and operational issues. Zoo offices, classrooms, student spaces and visitor and staff restrooms are housed in two aging facilities near the zoo entrance. Veterinary offices are located in those buildings as well, while the veterinary treatment room is located near the rear of the zoo, along with the commissary and quarantine area.

Proposed Facilities

The development program proposes two new consolidated Zoo Operations and Management facilities, to replace the existing Zoo 1, Zoo 2 and Hay Barn. Zoo Operations and student services are consolidated in a new Zoo Operations Building. Veterinary offices and treatment rooms are enhanced and collocated in a new Veterinary Center.

Facility / Program Element		Existing Capacity / Area			Proposed Capacity / Area		
Number	Name	Existing Net Total Area	Existing Circulation / Service Area	Existing Gross Total Area	Proposed Net Total Area	Proposed Circulation / Service Area	Proposed Gross Total Area
Subtotal	Animal Care and Housing	24,700 SF	49,800 SF	74,500 SF	47,700 SF	36,100 SF	83,800 SF
Subtotal	Zoo Operations	10,200 SF	10,400 SF	20,600 SF	16,800 SF	2,900 SF	19,700 SF
Subtotal	Guest Services and Education	16,800 SF	N/A	16,800 SF	21,800 SF	4,400 SF	26,200 SF
Total	All Facilities	51,700 SF	60,200 SF	111,900 SF	86,300 SF	43,400 SF	129,700 SF
Site Area				245,000 SF			373,000 SF

Facility / Program Element		Existing Capacity / Area					Proposed Capacity / Area				
Number	Name	Existing Number of Units	Existing Area per Unit (Average)	Existing Net Total Area	Existing Circulation / Service Area	Existing Gross Total Area	Proposed Number of Units	Proposed Area per Unit (Average)	Proposed Net Total Area	Proposed Circulation / Service Area	Proposed Gross Total Area
Zoo Operations & Management Facilities (Continued)											
1	Zoo Building 1			1,775 SF		1,775 SF					N/A
1.1	Administration / Open Office Area	1	300 SF	300 SF	N/A	300 SF	N/A	Demolish; Replace with New Zoo Operations Building			N/A
1.2	Staff Office	3	95 SF	285 SF	N/A	285 SF	N/A	Demolish; Replace with New Zoo Operations Building			N/A
1.3	Reptile House	1	930 SF	930 SF	N/A	930 SF	N/A	Demolish; Replace with New Zoo Operations Building			N/A
1.4	Restrooms	2	130 SF	260 SF	N/A	260 SF	N/A	Demolish; Replace with New Zoo Operations Building			N/A
2	Zoo Building 2			2,820 SF		2,820 SF					N/A
2.1	Classroom / Student Lounge	1	1,740 SF	1,740 SF	N/A	1,740 SF	N/A	Demolish; Replace with New Zoo Operations Building			N/A
2.2	Conference Room	1	280 SF	280 SF	N/A	280 SF	N/A	Demolish; Replace with New Zoo Operations Building			N/A
2.3	Computer Lab	1	280 SF	280 SF	N/A	280 SF	N/A	Demolish; Replace with New Zoo Operations Building			N/A
2.4	Vet Office	3	120 SF	360 SF	N/A	360 SF	N/A	Demolish; Replace with New Zoo Operations Building			N/A
2.5	Restrooms	2	80 SF	160 SF	N/A	160 SF	N/A	Demolish; Replace with New Zoo Operations Building			N/A
6	Workshop / Storage Area			1,600 SF		1,600 SF			2,400 SF		2,400 SF
6.1	Work Area (Outdoor)	1	1,200 SF	1,200 SF	N/A	1,200 SF	1	1,200 SF	1,200 SF	N/A	1,200 SF
6.2	Storage Area	1	400 SF	400 SF	N/A	400 SF	3	400 SF	1,200 SF	N/A	1,200 SF
15	Veterinary Center (Current Hay Barn)			1,458 SF	SF	1,458 SF			3,100 SF	620 SF	3,720 SF
15.1	Surgery Room	N/A	Proposed New Facility			N/A	N/A	200 SF	200 SF	40 SF	240 SF
15.2	Exam Room / X-Ray Room / Pharmacy	1	458 SF	458 SF	N/A	458 SF	1	500 SF	500 SF	100 SF	600 SF
15.3	Staff Offices	N/A	Currently Located in Zoo 2			N/A	2	100 SF	200 SF	40 SF	240 SF
15.4	Storage Room	N/A	Proposed New Facility			N/A	1	500 SF	500 SF	100 SF	600 SF
15.5	Staff Restroom / Shower Room	N/A	Proposed New Facility			N/A	1	100 SF	100 SF	20 SF	120 SF
15.6	Locker Room	N/A	Proposed New Facility			N/A	1	100 SF	100 SF	20 SF	120 SF
15.7	Recovery Area	N/A	Proposed New Facility			N/A	1	1,500 SF	1,500 SF	300 SF	1,800 SF
15.8	Hay Barn / Storage Area	1	1,000 SF	1,000 SF		1,000 SF	N/A	See Note			N/A
16	Commissary			1,130 SF		1,130 SF			1,192 SF	238 SF	1,430 SF
16.1	Kitchen / Food Prep Area	1	1,130 SF	1,130 SF	N/A	1,130 SF	1	800 SF	800 SF	160 SF	960 SF
16.2	Refrigerated Storage	N/A	Included Above			N/A	1	42 SF	42 SF	8 SF	50 SF
16.3	Dry Storage	N/A	Included Above			N/A	1	50 SF	50 SF	10 SF	60 SF
16.4	Other Storage	N/A	Included Above			N/A	1	50 SF	50 SF	10 SF	60 SF
16.5	Guest Restrooms						2	125 SF	250 SF	50 SF	300 SF

Facility / Program Element		Existing Capacity / Area					Proposed Capacity / Area				
Number	Name	Existing Number of Units	Existing Area per Unit (Average)	Existing Net Total Area	Existing Circulation / Service Area	Existing Gross Total Area	Proposed Number of Units	Proposed Area per Unit (Average)	Proposed Net Total Area	Proposed Circulation / Service Area	Proposed Gross Total Area
Zoo Operations & Management Facilities											
18	Quarantine Area					11,750 SF			2,100 SF	420 SF	2,520 SF
18.1	Outdoor Quarantine Enclosure	10	140 SF	1,400 SF	10,350 SF	11,750 SF	10	140 SF	1,400 SF	280 SF	1,680 SF
18.2	Indoor Quarantine Room	N/A		Proposed New Facility		N/A	2	200 SF	400 SF	80 SF	480 SF
18.3	Storage Room	N/A		Proposed New Facility		N/A	1	300 SF	300 SF	60 SF	360 SF
28	New Zoo Operations Building / Event Facility					N/A			8,000 SF	1,600 SF	9,600 SF
28.1	Reception Area / Open Office	N/A		Proposed New Facility		N/A	1	600 SF	600 SF	120 SF	720 SF
28.2	Classroom	N/A		Proposed New Facility		N/A	1	2,500 SF	2,500 SF	500 SF	960 SF
28.3	Conference Room	N/A		Proposed New Facility		N/A	1	300 SF	300 SF	60 SF	360 SF
28.4	Staff Offices	N/A		Proposed New Facility		N/A	6	100 SF	600 SF	120 SF	720 SF
28.5	Zoo Operations Storage Rooms	N/A		Proposed New Facility		N/A	3	100 SF	300 SF	60 SF	360 SF
28.6	Computer Lab	N/A		Proposed New Facility		N/A	1	600 SF	600 SF	120 SF	720 SF
28.7	Student Learning Lab	N/A		Proposed New Facility		N/A	1	600 SF	600 SF	120 SF	720 SF
28.8	Locker Rooms	N/A		Proposed New Facility		N/A	2	125 SF	250 SF	50 SF	300 SF
28.9	Restrooms (Students / Staff Only)	N/A		Proposed New Facility		N/A	2	125 SF	250 SF	50 SF	300 SF
28.10	Restrooms (Public)	N/A		Proposed New Facility		N/A	2	125 SF	250 SF	50 SF	300 SF
28.11	Mutli-Purpose Room / Event Space	N/A		Proposed New Facility		N/A	1	1,200 SF	1,200 SF	240 SF	1,440 SF
28.12	Catering Kitchen	N/A		Proposed New Facility		N/A	1	350 SF	350 SF	70 SF	420 SF
28.13	Event Storage Rooms	N/A		Proposed New Facility		N/A	2	100 SF	200 SF	40 SF	240 SF
Totals											
Subtotal	Zoo Operations & Management			10,200 SF	10,400 SF	20,600 SF			16,800 SF	2,900 SF	19,700 SF

Existing Facilities

Existing Animal Housing and Care Facilities are generally clustered by taxonomy, with multiple enclosures for related species grouped within a fenced compound. Exceptions include the Show Animal Facility and Animal Maintenance Facility, where unrelated animals are housed together.

Proposed Facilities

The development program continues to organize animal enclosures and exhibits by taxonomy and relocates animals currently housed in the mixed-taxa compounds. The program also includes one mixed-species exhibit focused on animals native to California. Proposed animal enclosures are sized to improve conditions and are intended as the primary animal housing. Separate “off-exhibit” holding areas are generally not provided.

3.3 Animal Housing & Care

Facility / Program Element			Existing Capacity / Area					Proposed Capacity / Area					
Number	Name	Existing Species	Existing Number of Units	Existing Area per Unit (Average)	Existing Net Total Area	Existing Circulation / Service Area	Existing Gross Total Area	Proposed Species	Proposed Number of Units	Proposed Area per Unit (Average)	Proposed Net Total Area	Proposed Circulation / Service Area	Proposed Gross Total Area
Animal Housing & Care Facilities													
5	Small Tortoise Habitat				650 SF		650 SF						N/A
5.1	Small Tortoise Enclosure	Leopard Tortoise, African Spurred Tortoise	2	325 SF	650 SF			N/A	N/A	Relocate to New Testudine Facility			N/A
7	Avian Facility (Parrot Gardens)				2,508 SF	12,401 SF	14,909 SF				5,150 SF	2,575 SF	7,725 SF
7.1	Exotic Bird Enclosures: Outdoor Area	Parrots etc.	24	52 SF	1,248 SF			Parrots etc.	24	55 SF	1,320 SF	660 SF	1,980 SF
7.2	Exotic Bird Enclosures: Indoor Area (Barn)	N/A	N/A	Proposed New Facility				Parrots etc.	24	20 SF	480 SF	240 SF	720 SF
7.3	Emu Enclosure	Emus	1	1,260 SF				Emus	1	1,260 SF	1,260 SF	630 SF	1,890 SF
7.4	Hornbill Aviary	N/A	N/A	Currently Housed in Aviary				Hornbills	1	750 SF	750 SF	375 SF	1,125 SF
7.5	Abdim's Stork Enclosure	N/A	N/A	Currently Housed in Show Animal Facility				Abdim's Stork	1	140 SF	140 SF	70 SF	210 SF
7.6	Flight Cage	N/A	N/A	Proposed New Facility				Training	1	450 SF	450 SF	225 SF	675 SF
7.7	Mixed-Species Aviary	N/A	N/A	Proposed New Facility				Varies	1	750 SF	750 SF	375 SF	1,125 SF
8	Show Animal Facility				2,472 SF	4,952 SF	7,424 SF						N/A
8.1	Hoofstock Enclosure	Llamas	3	400 SF	1,200 SF			N/A	N/A	Relocate Animals to Other Facilities, As Appropriate			N/A
8.2	Large Enclosure	Varies	6	142 SF	852 SF			N/A	N/A	Relocate Animals to Other Facilities, As Appropriate			N/A
8.3	Medium Enclosure	Varies	3	104 SF	312 SF			N/A	N/A	Relocate Animals to Other Facilities, As Appropriate			N/A
8.4	Small Enclosure	Varies	3	36 SF	108 SF			N/A	N/A	Relocate Animals to Other Facilities, As Appropriate			N/A
9	Carnivore Facility				4,472 SF	6,657 SF	11,129 SF				10,370 SF	5,185 SF	15,555 SF
9.1	Carnivore Exercise Enclosure	Varies	1	1,600 SF	1,600 SF			Varies	1	2,400 SF	2,400 SF	1,200 SF	3,600 SF
9.2	Large Enclosure	Lions, Hyenas, Puma Singing Dogs, Etc.	5	400 SF	2,000 SF			Lions, Tiger, Hyenas	4	1,600 SF	6,400 SF	3,200 SF	9,600 SF
9.3	Medium Enclosure	Coyote	2	240 SF	480 SF			Coyote, Serval, Sining Dogs, Ocelot	6	400 SF	2,400 SF	1,200 SF	3,600 SF
9.4	Small Enclosure	Ocelot, Serval	4	98 SF	392 SF			N/A	N/A	Replace with Medium Enclosures			
9.5	Shift Cages	N/A	N/A	Proposed New Facility				N/A	8	60 SF	480 SF	240 SF	720 SF
9.6	Holding Area	N/A	N/A	Proposed New Facility				N/A	8	80 SF	640 SF	320 SF	960 SF
9.7	Recovery Area	N/A	N/A	Proposed New Facility				N/A	2	150 SF	300 SF	150 SF	450 SF
9.8	Training Area	N/A	N/A	Proposed New Facility				N/A	1	150 SF	150 SF	75 SF	225 SF

Facility / Program Element			Existing Capacity / Area					Proposed Capacity / Area					
Number	Name	Existing Species	Existing Number of Units	Existing Area per Unit (Average)	Existing Net Total Area	Existing Circulation / Service Area	Existing Gross Total Area	Proposed Species	Proposed Number of Units	Proposed Area per Unit (Average)	Proposed Net Total Area	Proposed Circulation / Service Area	Proposed Gross Total Area
Animal Housing & Care Facilities													
11	Butterfly Conservation Station				1,200 SF	1,155 SF	2,355 SF				1,640 SF	760 SF	2,400 SF
11.1	Butterfly Greenhouse / Enclosed Building		2	136 SF	272 SF	1,155 SF	1,155 SF	PVB	2	150 SF	300 SF	150 SF	450 SF
11.2	Butterfly Boxes		2	235 SF	470 SF	Included Above		PVB, LMB	2	270 SF	540 SF	270 SF	810 SF
11.3	Butterfly Gardens		1	394 SF	394 SF	Included Above			1	700 SF	700 SF	290 SF	990 SF
11.4	Soil Sterilization Pit		1	64 SF	64 SF	Included Above			1	100 SF	100 SF	50 SF	150 SF
12	Domestic Hoofstock Facility				4,641 SF	6,180 SF	10,821 SF				9,443 SF	4,722 SF	14,165 SF
12.1	Water Buffalo Enclosure		N/A	Currently Housed in Enclosures Listed Below				Water Buffalo	1	1,600 SF	1,600 SF	800 SF	2,400 SF
12.2	Large Enclosure	Water Buffalo, Sheep	2	800 SF	1,600 SF			Sheep, Lamas	2	800 SF	1,600 SF	800 SF	2,400 SF
12.3	Medium Enclosure	Donkey, Miniature Horse	6	400 SF	2,400 SF			Donkey, Miniature Horse, Goats	6	400 SF	2,400 SF	1,200 SF	3,600 SF
12.4	Small Enclosure	N/A	2	172 SF	344 SF			Potbellied Pig	4	220 SF	880 SF	440 SF	1,320 SF
12.5	Marine Mammal Enclosure	N/A	1	297 SF	297 SF			N/A	N/A	Relocate to Marine Mammal Facility			N/A
12.6	Exercise/Training Area	N/A	N/A	Proposed New Facility				N/A	1	1,963 SF	1,963 SF	982 SF	2,945 SF
12.7	Hay Bar/ Storage Area	N/A	N/A	Currently Housed with Veterinary Center				N/A	1	1,000 SF	1,000 SF	500 SF	1,500 SF
13	Mews				750 SF		750 SF						N/A
13.1	Mews	Birds of Prey	1	750 SF	750 SF			N/A	N/A	Demolish Facility; Relocate to California Habitat			
14	Animal Maintenance (Off-Exhibit Area)				1,380 SF	5,950 SF	7,330 SF				1,400 SF	700 SF	2,100 SF
14.1	Large Enclosure	Varies	6	100 SF	600 SF			Varies	4	200 SF	800 SF	400 SF	1,200 SF
14.2	Medium Enclosure	Varies	8	80 SF	640 SF			Varies	6	100 SF	600 SF	300 SF	900 SF
14.3	Small Enclosure	Varies	4	35 SF	140 SF			N/A	N/A	Replace with Medium Enclosures			
17	Primate Gardens				3,540 SF	12,510 SF	16,050 SF				2,135 SF	13,360 SF	15,060 SF
17.1	Large Enclosure		1	435 SF	435 SF				1	435 SF	435 SF	12,510 SF	12,510 SF
17.2	Medium Enclosure	Baboons, Capuchins, Siamangs, Spider Monkeys, Etc.	8	315 SF	2,520 SF			Baboons, Capuchins, Siamangs, Spider Monkeys, Etc.	8	315 SF			
17.3	Small Enclosure	Coatis, Lemurs	3	195 SF	585 SF			Coatis, Lemurs	3	195 SF			
17.4	New Large Enclosure	N/A	N/A	Currently Housed in Show Animal Facility				Baboons	2	300 SF	600 SF	300 SF	900 SF
17.5	New Medium Enclosure	N/A	N/A	Currently Housed in Show Animal Facility				Capuchins, Squirrel Monkeys	6	150 SF	900 SF	450 SF	1,350 SF
17.6	New Small Enclosure	N/A	N/A	Currently Housed in Animal Maintenance				Tamarin	2	100 SF	200 SF	100 SF	300 SF

Facility / Program Element		Existing Capacity / Area						Proposed Capacity / Area					
Number	Name	Existing Species	Existing Number of Units	Existing Area per Unit (Average)	Existing Net Total Area	Existing Circulation / Service Area	Existing Gross Total Area	Proposed Species	Proposed Number of Units	Proposed Area per Unit (Average)	Proposed Net Total Area	Proposed Circulation / Service Area	Proposed Gross Total Area
Animal Housing & Care Facilities													
19	Alligator Habitat				360 SF		360 SF				360 SF	180 SF	540 SF
19.1	Alligator Enclosure	Alligator	1	360 SF	360 SF		360 SF	Alligator	1	360 SF	360 SF	180 SF	540 SF
20	Testudine Facilities				1,200 SF		1,200 SF				1,930 SF	965 SF	2,895 SF
20.1	Galapagos Tortoise Enclosure	Galapagos Tortoise	1	1,200 SF	1,200 SF		1,200 SF	Galapagos Tortoise	1	1,200 SF	1,200 SF	600 SF	1,800 SF
20.2	Snapping Turtle Enclosure	N/A	N/A	Currently Housed in Aviary			N/A	Hornbill	1	80 SF	80 SF	40 SF	120 SF
20.3	Small Tortoise Enclosure	N/A	N/A	Currently Housed in Small Tortoise Enclosure			N/A	Snapping Turtle	2	325 SF	650 SF	325 SF	975 SF
21	Aviary				1,500 SF		1,500 SF						N/A
21.1	Hornbill Enclosure	Hornbill	1	750 SF	750 SF		750 SF	N/A	N/A	Demolish Facility; Relocate to Avian Facility			N/A
21.2	Snapping Turtle Enclosure	Snapping Turtle	1	750 SF	750 SF		750 SF	N/A	N/A	Demolish Facility; Relocate to Testudine Facility			N/A
23	New Reptile House						N/A				800 SF	400 SF	1,200 SF
23.1	Reptile House	N/A	N/A	Currently Housed in Zoo 1			N/A	Existing Reptile Collection	1	800 SF	800 SF	400 SF	1,200 SF
24	Exotic Hoofstock Facility						N/A				4,750 SF	2,375 SF	7,125 SF
24.1	Large Enclosure	N/A	N/A	Proposed New Facility			N/A	TBD	1	3,200 SF	3,200 SF	1,600 SF	4,800 SF
24.2	Small Enclosure	N/A	N/A	Proposed New Facility			N/A	TBD	1	1,000 SF	1,000 SF	500 SF	1,500 SF
24.3	Exotic Hoofstock Barn	N/A	N/A	Proposed New Facility			N/A		1	550 SF	550 SF	275 SF	825 SF
25	California Habitat						N/A				5,120 SF	2,560 SF	7,680 SF
25.1	Large Enclosure	N/A	N/A	Currently Housed in Carnivore Facility			N/A	Mountain Lion	1	1,200 SF	1,200 SF	600 SF	1,800 SF
25.2	Medium Enclosure	N/A	N/A	Currently Housed in Show Animal Facility / Animal Maintenance			N/A	Beaver, Raccoon, Bobcat, Lynx	4	400 SF	1,600 SF	800 SF	2,400 SF
25.3	Small Enclosure	N/A	N/A	Currently Housed in Show Animal Facility			N/A	Skunk, Badger, Etc.	4	200 SF	800 SF	400 SF	1,200 SF
25.4	Birds of Prey Exhibits	N/A	N/A	Currently Housed in Mews			N/A	Eagle, Hawks, Vulture, Owls, Etc.	8	90 SF	720 SF	360 SF	1,080 SF
25.5	California Reptile Exhibit	N/A	N/A	Proposed New Facility			N/A	California Reptiles	1	200 SF	200 SF	100 SF	300 SF
25.6	Botanical Gardens	N/A	N/A	Proposed New Facility			N/A		1	600 SF	600 SF	300 SF	900 SF

Facility / Program Element			Existing Capacity / Area					Proposed Capacity / Area					
Number	Name	Existing Species	Existing Number of Units	Existing Area per Unit (Average)	Existing Net Total Area	Existing Circulation / Service Area	Existing Gross Total Area	Proposed Species	Proposed Number of Units	Proposed Area per Unit (Average)	Proposed Net Total Area	Proposed Circulation / Service Area	Proposed Gross Total Area
Animal Housing & Care Facilities													
26	Small Mammal Habitat						N/A				1,520 SF	760 SF	2,280 SF
26.1	Large Enclosure	N/A	N/A	Proposed New Facility			N/A	Red Foxes, Coati	4	200 SF	800 SF	400 SF	1,200 SF
26.2	Small Enclosure	N/A	N/A	Proposed New Facility			N/A	Porcupine, Fennec Foxes, Kinkajou, Opossum	6	120 SF	720 SF	360 SF	1,080 SF
27	Marine Mammal Facility						N/A				3,100 SF	1,550 SF	4,650 SF
27.1	Large Enclosure/Pool	N/A	N/A	Proposed New Facility			N/A	Sea Lions	1	1,200 SF	1,200 SF	600 SF	1,800 SF
27.2	Small Enclosure/Pool	N/A	N/A	Proposed New Facility			N/A	Sea Lions	2	600 SF	1,200 SF	600 SF	1,800 SF
27.3	Guest Viewing Area	N/A	N/A	Proposed New Facility			N/A		1	300 SF	300 SF	150 SF	450 SF
27.4	Pump Room/Mechanical	N/A	N/A	Proposed New Facility			N/A		1	400 SF	400 SF	200 SF	600 SF
Totals													
Subtotal	Animal Housing & Care				24,700 SF	49,800 SF	74,500 SF				47,700 SF	36,100 SF	83,800 SF

3.4 Guest Services & Education

Existing Facilities

Existing Guest Services and Education facilities are clustered near the entrance of the Zoo.

Proposed Facilities

The development program expands Guest Services and Education facilities with new and enhanced program elements to better meet programmatic and functional needs.

Facility / Program Element		Existing Capacity / Area					Proposed Capacity / Area				
Number	Name	Existing Number of Units	Existing Area per Unit (Average)	Existing Net Total Area	Existing Circulation / Service Area	Existing Gross Total Area	Proposed Number of Units	Proposed Area per Unit (Average)	Proposed Net Total Area	Proposed Circulation / Service Area	Proposed Gross Total Area
Guest Services & Education Facilities											
3	Main Theater			8,400 SF		8,400 SF			8,400 SF	1,680 SF	10,080 SF
3.1	Guest Seating	350	10 SF	3,500 SF	N/A	3,500 SF	350	10 SF	3,500 SF	700 SF	4,200 SF
3.2	Stage Area	1	1,100 SF	1,100 SF	N/A	1,100 SF	1	1,100 SF	1,100 SF	220 SF	1,320 SF
3.3	Backstage Area	1	3,800 SF	3,800 SF	N/A	3,800 SF	1	3,800 SF	3,800 SF	760 SF	4,560 SF
4	Picnic & Recreation Areas			2,060 SF		2,060 SF			4,000 SF	800 SF	4,800 SF
4.1	Covered Picnic Area(s)	1	2,060 SF	2,060 SF	N/A	2,060 SF	2	2,000 SF	4,000 SF	800 SF	4,800 SF
10	Second Theater			3,800 SF		3,800 SF			3,800 SF	760 SF	4,560 SF
10.1	Guest Seating	200	10 SF	2,000 SF	N/A	2,000 SF	200	10 SF	2,000 SF	400 SF	2,400 SF
10.2	Stage Area	1	800 SF	800 SF	N/A	800 SF	1	800 SF	800 SF	160 SF	960 SF
10.3	Backstage Area	1	1,000 SF	1,000 SF	N/A	1,000 SF	1	1,000 SF	1,000 SF	200 SF	1,200 SF
22	Outdoor Event Facility					2,500 SF			5,000 SF	1,000 SF	6,000 SF
22.1	Recreation / Event Lawn	1	2,500 SF	2,500 SF	N/A	2,500 SF	1	5,000 SF	5,000 SF	1,000 SF	6,000 SF
28	Guest Restroom (Marine Mammal Area)				N/A	2,500 SF			600 SF	120 SF	720 SF
	Restrooms				N/A	2,500 SF	2	300 SF	600 SF	120 SF	720 SF
Totals											
Subtotal	Guest Services and Education			16,800 SF	N/A	16,800 SF			21,800 SF	4,400 SF	26,200 SF



The Wilson Family
Carnivore Habitat
African Lions

America's Teaching Zoo
Hillside Theater

Donated by:
The Fishman Family
2015

4.0 CASE STUDIES

4.1 Scale Comparisons

Central Park Zoo

Santa Fe College Teaching Zoo



4.1 Scale Comparisons

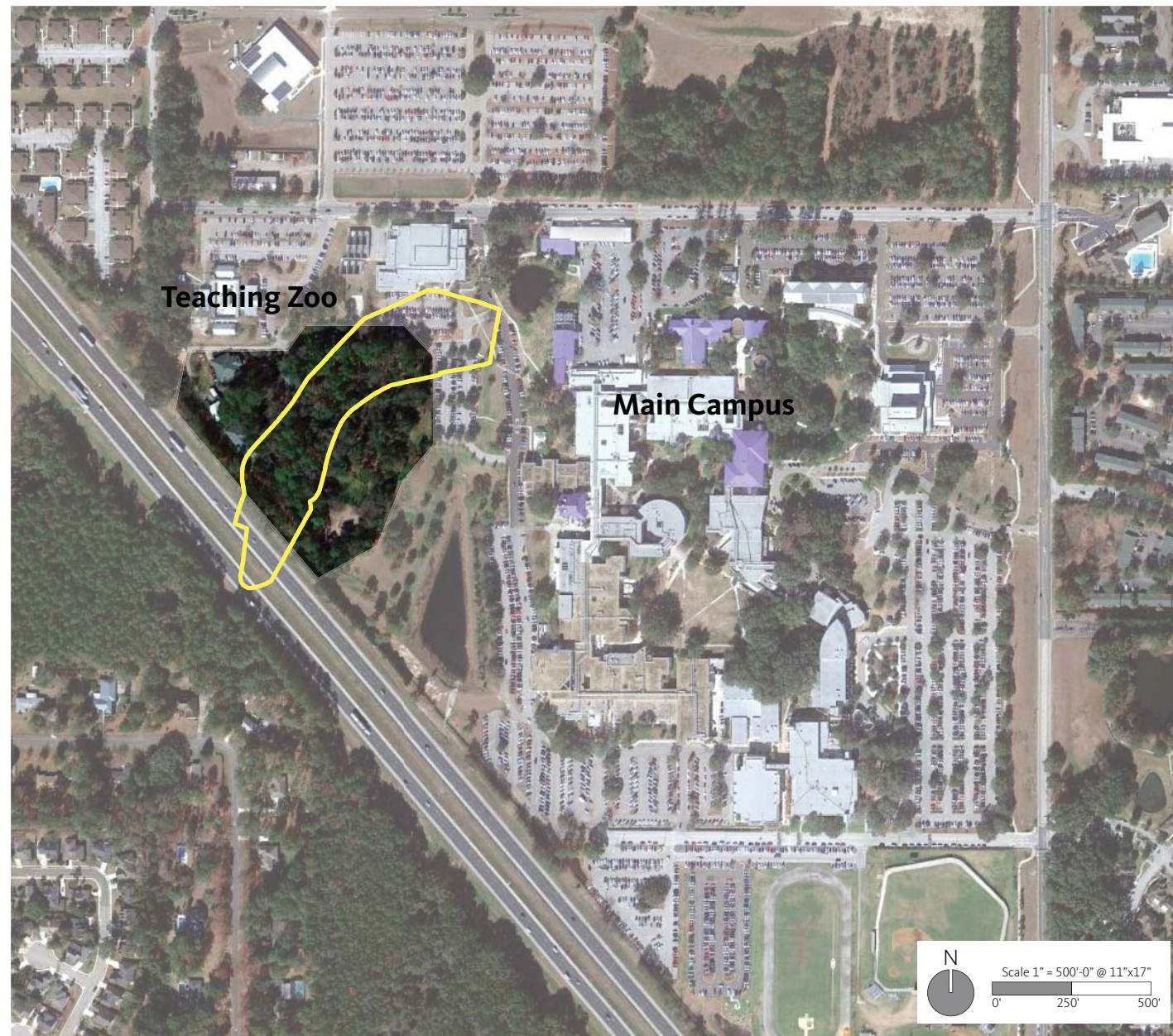
Central Park Zoo, New York, NY

- 6.5 Acres
- 130 Species



Santa Fe College Teaching Zoo, Gainesville, FL

- 10 Acres
- 75 Species, 200+ Animals





The Wilson Family
Carnivore Habitat
African Lions

America's Teaching Zoo
Hillside Theater

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6.0 OPTIONS

6.1 Option 1: Patches

Overview

Exhibits, Open Space & Circulation

6.2 Option 2: Pods

Overview

Exhibits, Open Space & Circulation

6.3 Option 3: Bands

Overview

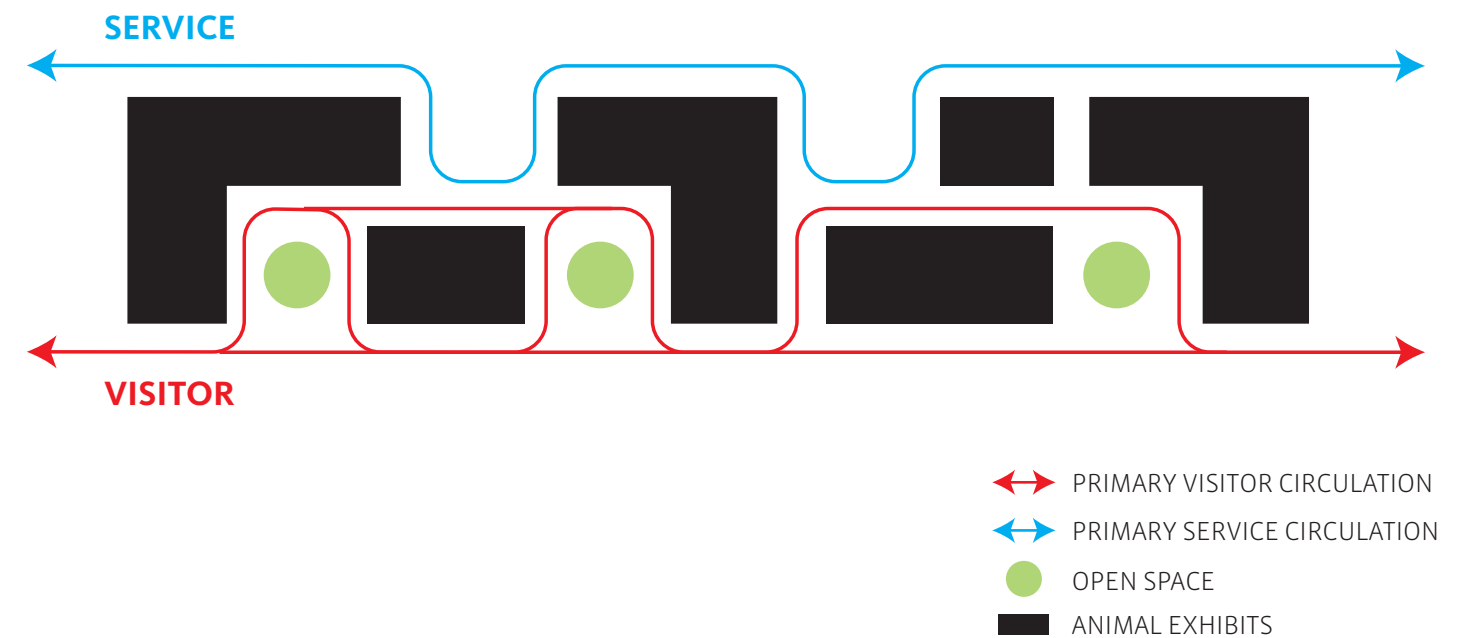
Exhibits, Open Space & Circulation

6.1 Option 1: Patches

Overview

- Exhibits are organized in longitudinal sections separated by viewing gardens.
- Service and visitor circulation are separated into north and south pathways.
- Zoo operations building is adjacent to the entry with separate maintenance facilities to the west.
- This option requires the least demolition and relocation of existing facilities.

Exhibits, Open Space & Circulation



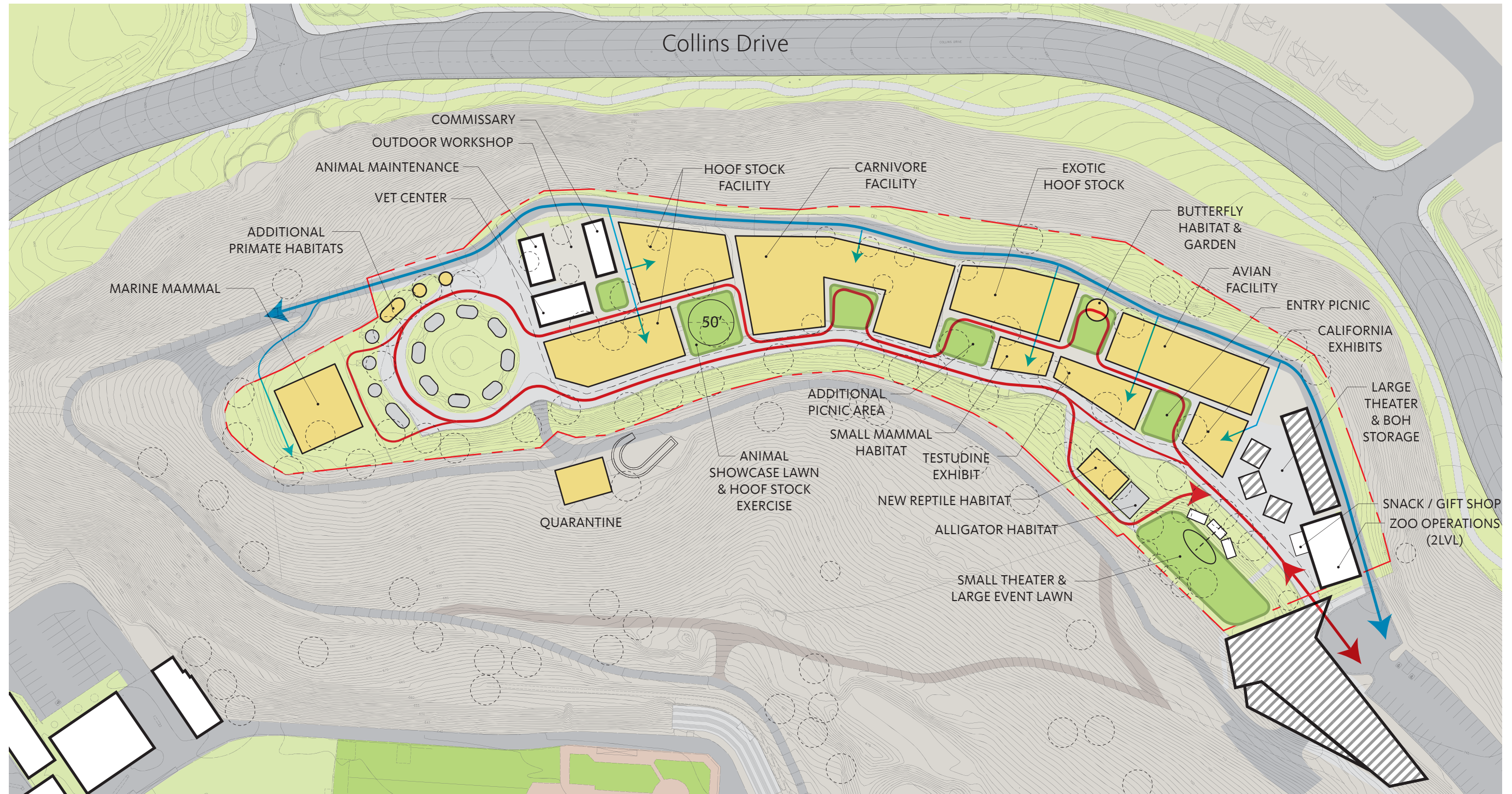
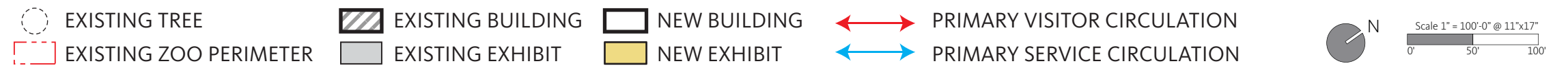


Fig 6.1
Option 1

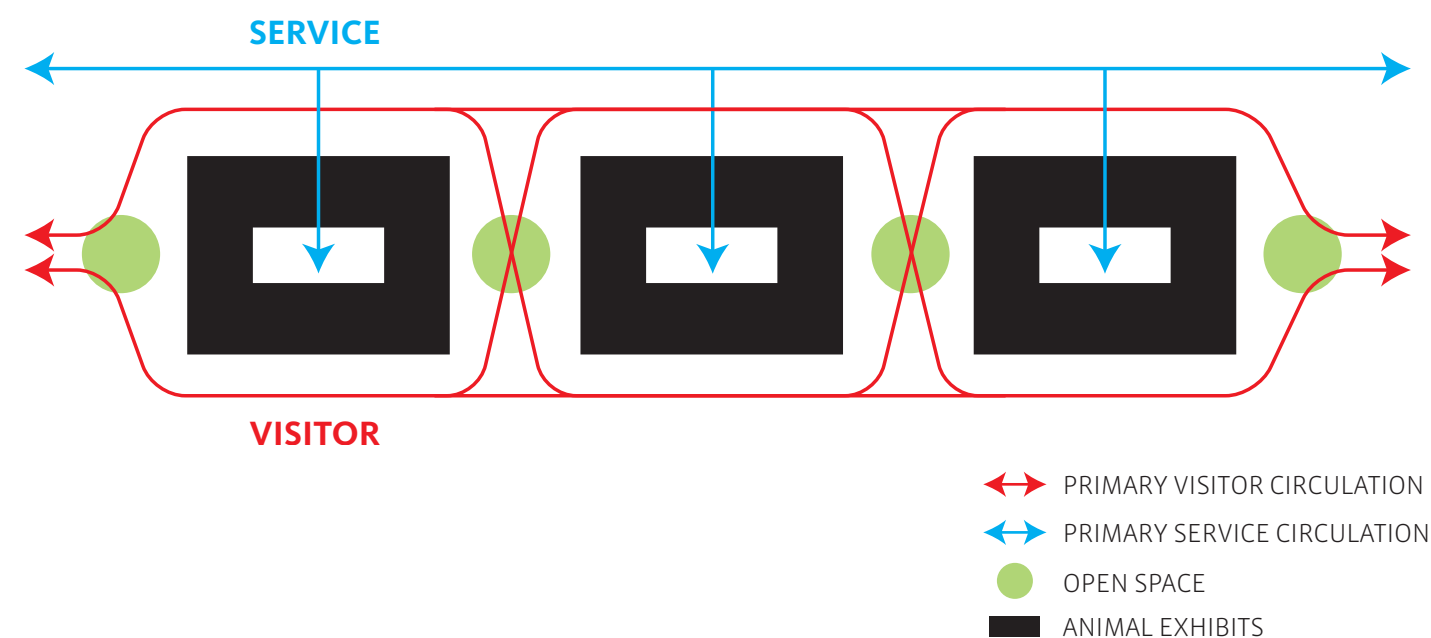


6.2 Option 2: Pods

Overview

- Exhibits are organized in outward facing pods, viewed by visitors at the perimeters.
- Service and visitor access is separate except for intersections at the north of each exhibit pod.
- Visitors have access to a partial loop that allows a different entry and exit experience.
- The zoo operations are centralized toward the middle of the site.
- The Pods option allows some exhibits and facilities to remain in their existing locations.

Exhibits, Open Space & Circulation



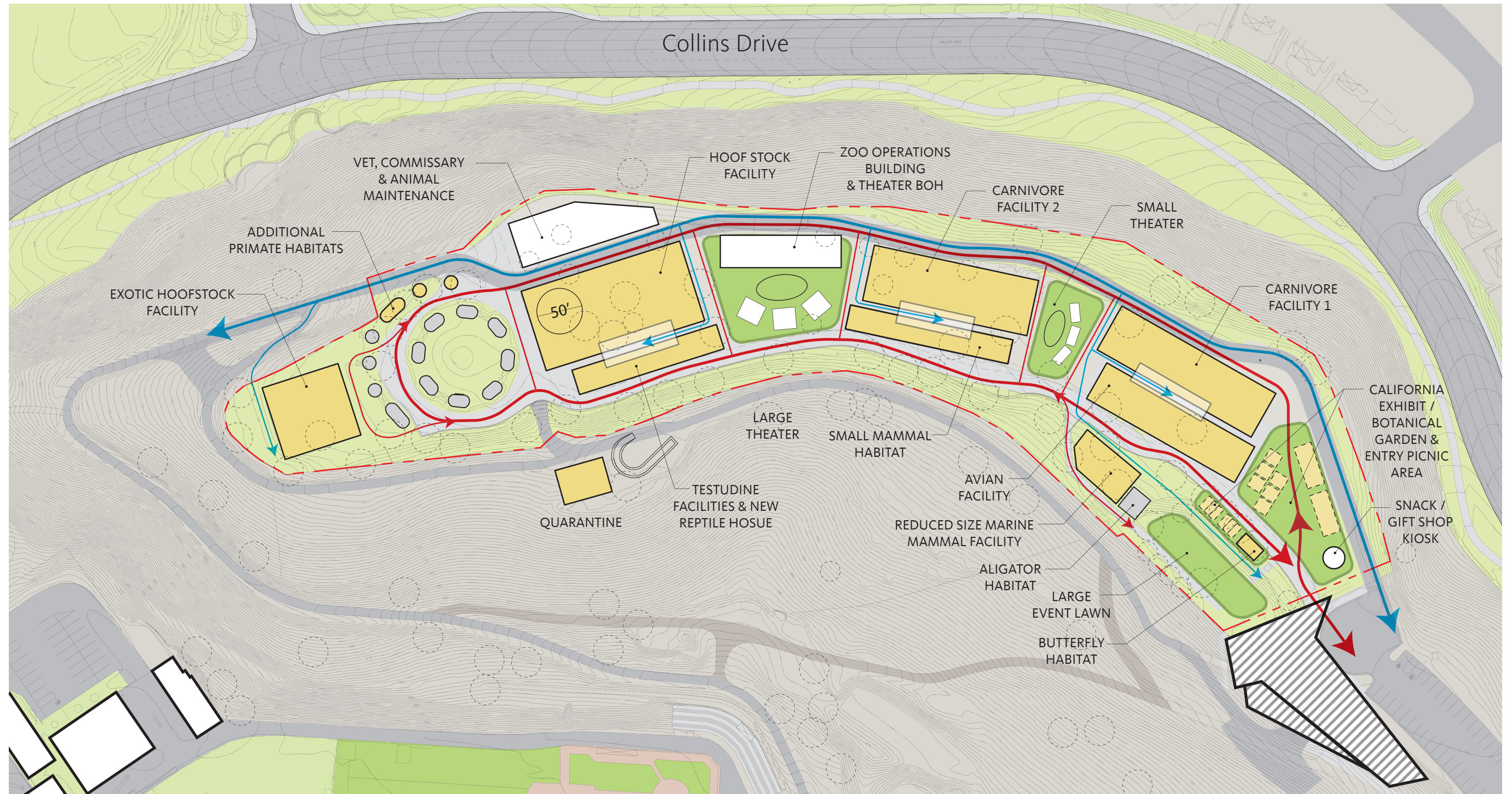
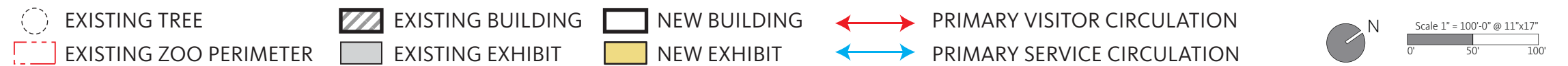


Fig 6.2
Option 2

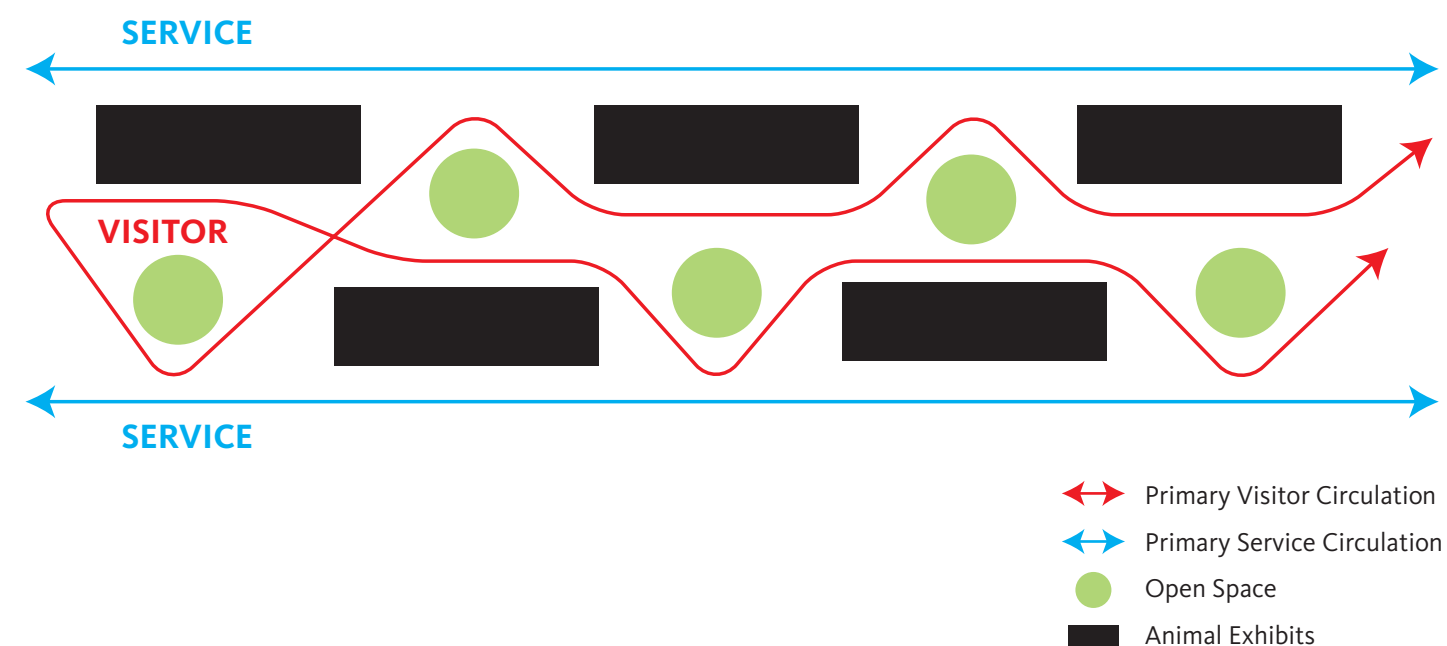


6.3 Option 3: Bands

Overview

- The organizing element of this scheme is the central spine for visitor circulation. It has exhibits on both sides and an outdoor space dedicated to each exhibit area.
- Visitor circulation is separate from the service circulation to the north and south of the animal exhibits. An optional pedestrian loop could enhance the visitor experience.
- The zoo operations building, sited on the hillside, is adjacent to the entry and a separate maintenance facility is located toward the western part of the site.
- This option requires relocation of most of the exhibits and a change in the overall circulation of the current configuration.

Exhibits, Open Space & Circulation



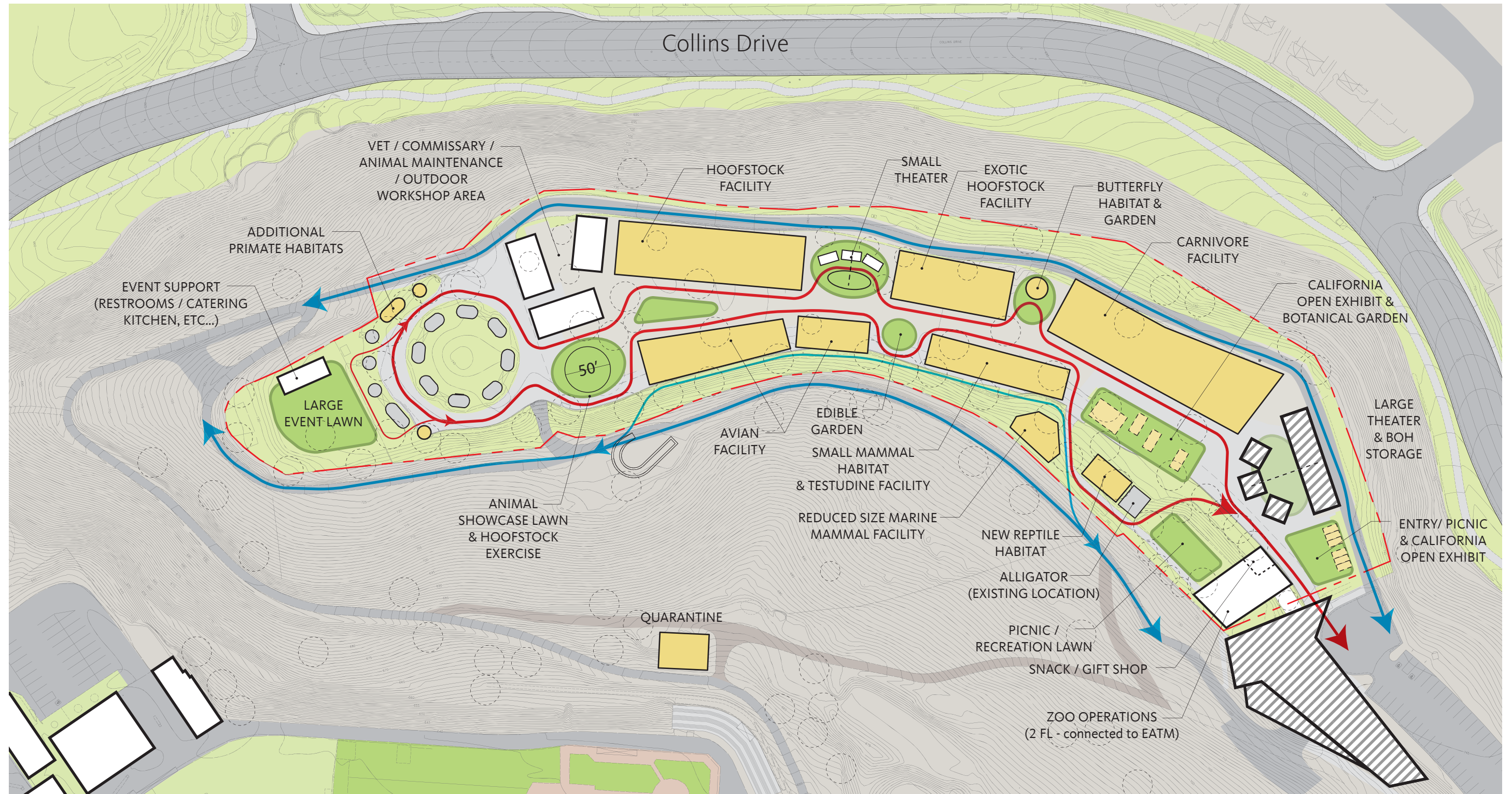
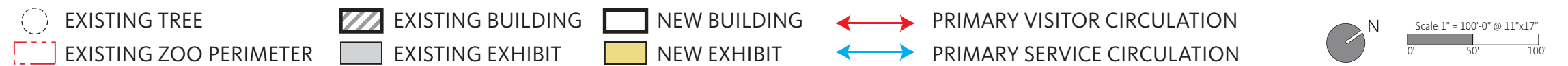


Fig 6.3
Option 3





The Wilson Family
Carnivore Habitat

African Lions



America's Teaching Zoo
Hillside Theater



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5.0 ANALYSIS FINDINGS

5.1 Strategic Assets

- Strengths
- Challenges
- Opportunities

5.2 Planning Principles

- Overview
- Principles



5.1 Strategic Assets

During the first phase of the planning process, the faculty and staff, together with the consultant team, identified the strengths, challenges and opportunities facing America's Teaching Zoo and the Exotic Animal Training and Management Program.

Strengths

- Location and climate
- Engaged and passionate students
- Variety of animals in collection
- Visitor proximity to animals
- Student / visitor interaction
- Connections to other campus programs
- Intimacy of the facilities

Challenges

- Funding constraints
- Lack of awareness in the community
- Limited geographic area
- Infrastructure issues
- Access and circulation
- Topography
- Climate
- Disconnect between EATM and Zoo
- Outdated / poor-condition facilities
- Lack of cohesive design
- Compromised visitor experience

Opportunities

- Potential expansion
- New facilities
- Event rentals / revenue generation
- Regional attractions
- Donor opportunities
- Potential attendance growth
- More naturalistic enclosures
- Placing more animals on exhibit
- Technology
- Developing a story for the Zoo
- Improved signage / interpretive exhibits



Fig 5.1 Visioning Session Analysis

America's Teaching Zoo Vision:

"We are a world famous teaching zoo open to the public."

Vision

What is your vision for America's Teaching Zoo and the EATM?

"We are unique in that we are a world famous teaching institution open to the public"

Education leaders for tomorrow - Zoo does students resources
commitment to natural environment
public wants to invest time & money
community asset

Eco needs to live up to building!
More focus on animals - World famous for care of animals
high level of resp

Aspiration is to be a destination
Cutting edge training from here

TRANSP
Intima

SWOT Analysis

What are the challenges and opportunities facing ATZ and the EATM?

Strengths
Location - 1st choice of ATZ is unique and a highlight of Ventura County
Our difference is that we're a teaching zoo
Young, passionate student population (100,000) - big labor force (sets)
Variety of animals - education is animal-based, underway 150000
Proximity to animals
talk with students
learning resources for campus is an important addition

Weaknesses
Funding constraints
Lack of awareness in the community
Limited Geographic Area
Infrastructure issues
Access / Circulation
Topography
HPT - windy

Opportunities
Free jobs
Potential expansion
Industry partner / local events - trainee
100,000 staff - would not make to 2011
attractors for quality - poor to 2000s, library, about age!

Goals and Priorities

What are the goals for the Master Plan? Which are the priorities?

- Financial Sustainability ●
- Beauty / Aesthetics ●
- Education ●
- Fun ●
- Safety ●●●●
- Innovative Exhibit Renewal ●●●●●
- Animal Welfare and Conservation ●●●●●●
- Sustainability - environmental ●●●●●●●
- Enhanced Guest Experience ●●●●
- Enhanced Online Presence ●●●●

MOORPARK COLLEGE FACILITIES MASTER PLAN UPDATE | JULY 8, 2014

Gensler

5.2 Planning Principles

Overview

The following Planning Principles, Goals and Strategies represent the framework for developing a new Master Plan for America's Teaching Zoo. The Principles articulate the overarching vision and aspirations for the future of the Zoo. The Goals represent specific targets for the physical plan. Strategies are potential recommendations for achieving the Goals and realizing the Principles.

Principle I

This is America's Teaching Zoo: animal careers begin here.

As America's Teaching Zoo, our core mission is to educate the next generation of leaders in animal training and care. The Master Plan should reflect and support our educational mission.

Goals

- Develop the best facilities in the United States for teaching animal care and training
- Continue to support the educational mission of Moorpark College and the Exotic Animal Training and Management Program

Strategies

- Create a development program to meet the physical facility needs of the educational program
- Incorporate teaching and learning spaces throughout the site



Principle II

Safety and animal care are our top priorities.

Our number one priority in everything that we do is the safety of our students, staff and visitors and the care and welfare of our animals. The Master Plan should support and enhance animal care and student, staff and visitor safety.

Goals

- Develop safe, secure and humane enclosures that protect the welfare of our students, staff, visitors and animals
- Create environments that enrich our animals lives and allow them to exercise their natural behaviors to the greatest extent possible

Strategies

- Provide sufficient space for all animals in their primary habitat
- Create appropriate environments (with regards to materials, shade, enrichment etc.) to support the physical and mental health of the animal
- Ensure appropriate fencing and enclosures to keep animals and visitors at a safe distance while maximizing visibility of the animals



- Organize exhibits with appropriate adjacencies and sufficient service access
- Add naturalistic elements to enclosures
- Describe animal care in graphics and programs / tours
- Educate visitors about animal care
- Identify facilities used in animal care
- Label plants used in feeding and enrichment
- Identify animals by individual name and describe their personal life stories and role in training

Principle III

Here, behind the scenes is front and center.

Every visitor gets a VIP experience with an up-close view of animals and personal interaction with our students and animal trainers.

Goals

- Show visitors view how we work to educate animal keepers and train and care for animals
- Maximize visibility and transparency, and allow visitors to see everything about how a zoo works

Strategies

- Allow up-close viewing of animals whenever possible
- Perform husbandry, care and training in view of visitors whenever possible
- Create interpretive and interactive elements that allow visitors to participate in animal care and training, to the extent possible
- Provide formal and informal spaces for animal shows, presentations and keeper talks
- Create flexible training space that can be on view or off view as needed

Planning Principles

Principle IV

This is a wonderful place to explore, learn and have fun.

Learning is fun at America's Teaching Zoo! We want to inspire and educate visitors through engaging and interactive experiences.

Goals

- Design exhibits to create memorable animal experiences
- Create comfortable spaces that enhance learning and enjoyment
- Accommodate all visitors, including those with physical or mental disabilities

Strategies

- Create a welcoming entry for orientation and assembly at the zoo entrance
- Take advantage of the natural environment, existing trees and views
- Provide adequate restrooms, drinking fountains and appropriate amenities throughout the zoo
- Provide shade cover along all visitor paths, viewing areas, theaters and seating areas



Principle V

Our purpose is to inspire conservation and the care of animals and the environment.

As a zoo, we strive to inspire and educate visitors about the care of animals and the conservation of species in the wild.

Goals

- Introduce visitors to the importance of animal conservation

Strategies

- Provide educational signage and programming to educate visitors about animal conservation at all exhibits
- Incorporate sustainable design strategies in all exhibits and facilities
- Create opportunities for visitors to participate in conservation projects

- Provide varied animal viewing opportunities
- Enhance visitor circulation
- Separate visitor circulation and service access
- Provide visitor play space and interactive experiences such as water play areas, climbing structures, nature exploration and photo opportunities that accommodate users with varying abilities throughout the zoo
- Add tactile and auditory experiences that accommodate vision-impaired visitors
- Accommodate wheelchair users and mobility-impaired visitors along major paths

Principle VI

We aspire to cultivate support and investment from the community that we serve.

As a part of VCCCD, we serve the Moorpark and Ventura County communities and support shared synergies between the college and community.

Goals

- Increase awareness and support for the Zoo in the community
- Be a community resource for Ventura County and Southern California
- Become known as a Ventura County destination

Strategies

- Collaborate with regional tourism marketing
- Coordinate with other local destinations, such as the Reagan Library
- Create places for community events
- Enhance signage and wayfinding from the campus and freeway

Principle VII

We are committed to fiscal and environmental sustainability.

As a non-profit public institution, we are financially prudent. The Master Plan supports fiscally-sound development.

Goals

- Create a practical, cost-efficient master plan that can be developed in phases over time
- Provide opportunities for revenue generating uses that can support the operations of the zoo

Strategies

- Create a variety of donor opportunities
- Enhance the facilities for events
- Consider potential food service and retail opportunities
- Create revenue-generating opportunities without compromising ATZ's primary educational mission





The Wilson Family
Carnivore Habitat

African Lions



America's Teaching Zoo
Hillside Theater



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7.0 MASTER PLAN OVERVIEW

7.1 Planning Principles

7.2 Master Plan Concept

Illustrative Master Plan

7.3 Built Systems

Development Concept

Building Use Concept

Utilities & Infrastructure Concept

7.4 Natural Systems

Grading Concept

Tree Concept

Landscape Concept

7.5 Visitor Experience

Amenities & Open Space Concept



7.1 Planning Principles

Overview

The following are Planning Principles for developing a new Master Plan for America's Teaching Zoo. These Principles articulate the overarching vision and aspirations for the future of the Zoo.

Principle I

This is America's Teaching Zoo: animal careers begin here.



Principle II

Safety and animal care are our top priorities.



Principle III

Here, behind the scenes is front and center.



Principle IV

Our purpose is to inspire conservation and the care of animals and the environment.



Principle V

We aspire to cultivate support and investment from the community that we serve.



Principle VI

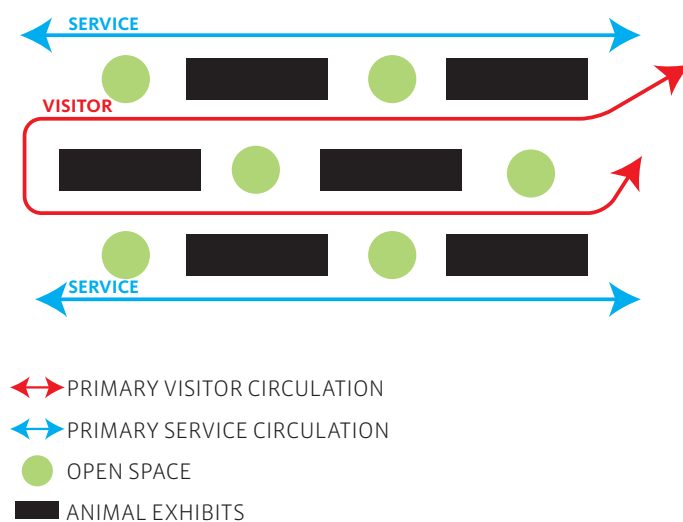
We are committed to fiscal and environmental sustainability.



7.2 Master Plan Overview

Concept

Concept Diagram



The Master Plan concept provides a framework for the future development of America's Teaching Zoo. Throughout the Zoo, the Master Plan places the care and training of animals front and center with expanded enclosures, enhanced exhibits and new teaching gardens that support the kind of up-close animal experiences that make America's Teaching Zoo unique.

The centerpiece of the plan is the expansion of the Zoo to the south and the reorganization of all exhibits and facilities around a central pedestrian pathway and an exterior loop road providing service access. Vehicular and pedestrian circulation are separated throughout the Zoo to avoid conflicts and enhance the visitor experience. The utilization of new hillside areas allows variation in the design of animal enclosures and habitats and provides more space for animals and visitors. The new Master Plan captures the natural beauty of the Moorpark campus, with open spaces and enclosures carefully positioned to maximize views and native California landscaping incorporated throughout.

The improved visitor experience will begin at the entrance, where visitors will enter into an expansive open plaza. The plaza will provide ample space for large groups of schoolchildren to gather for orientation before proceeding into the heart of the zoo. A new Zoo Operations Building located at the entrance will provide enhanced visitor amenities, including much-needed classroom, lab and administrative space and possibly food service. A lower-level event space opening onto an expansive Event Lawn will accommodate groups of up to 250 people for graduations, conferences, fund-raising galas and revenue-generating events such as weddings.

Just past the Entry Plaza, visitors will find themselves in the California Habitat, an immersive, mixed-species exhibit focused on teaching visitors about the natural world with exhibits featuring plants and animals from across the Golden State.

Downslope from the existing Zoo, the hillside expansion will incorporate a new Carnivore Habitat with enlarged enclosures and improved

training facilities and a natural amphitheater built into the hillside.

On the western side of the Zoo, a new Animal Care Center will incorporate the Veterinary Center, Animal Kitchen, off-exhibit animal housing and a workshop area. Primate Gardens will be expanded and enhanced with new landscaping and a central exercise enclosure. Finally, a Marine Mammal Facility will anchor the western edge of the Zoo, creating a new destination for visitors.



Fig 7.1
**Illustrative
Master Plan**

- New Buildings
- Existing Buildings
- Other Structures
- Animal Enclosures
- Zoo Perimeter

N Scale 1" = 100'-0" @ 11"x17"

0' 50' 100'

Visitor Experience

The defining feature of the Master Plan is the visitor experience, which offers all visitors a “Behind the Scenes” look at how students and staff care for and train animals. Throughout the Zoo, “Behind the Scenes” activities such as training, feeding, medical care, and caretaking are brought directly adjacent to the visitor path and featured as the zoo’s main attraction.

Animal care is prioritized and on display. Larger animal habitats and bedroom enclosures are staggered behind and between training facilities and teaching gardens to provide a comfortable private zone for animals if needed.

The “Behind the Scenes” focus brings animals and keeps out front to interact with visitors. Teaching Gardens located along the visitor path provide a place for student zoo keepers to bring animals out for an intimate and personal educational experience.

Conventional Zoo



Singapore Zoo, Singapore

- Visitors view naturalistic animal enclosures from one side
- Activities such as animal husbandry and training take place behind the scenes with zoo keepers and staff
- Visitors have little or no interaction with zoo keepers and are shielded from seeing the animal care or training

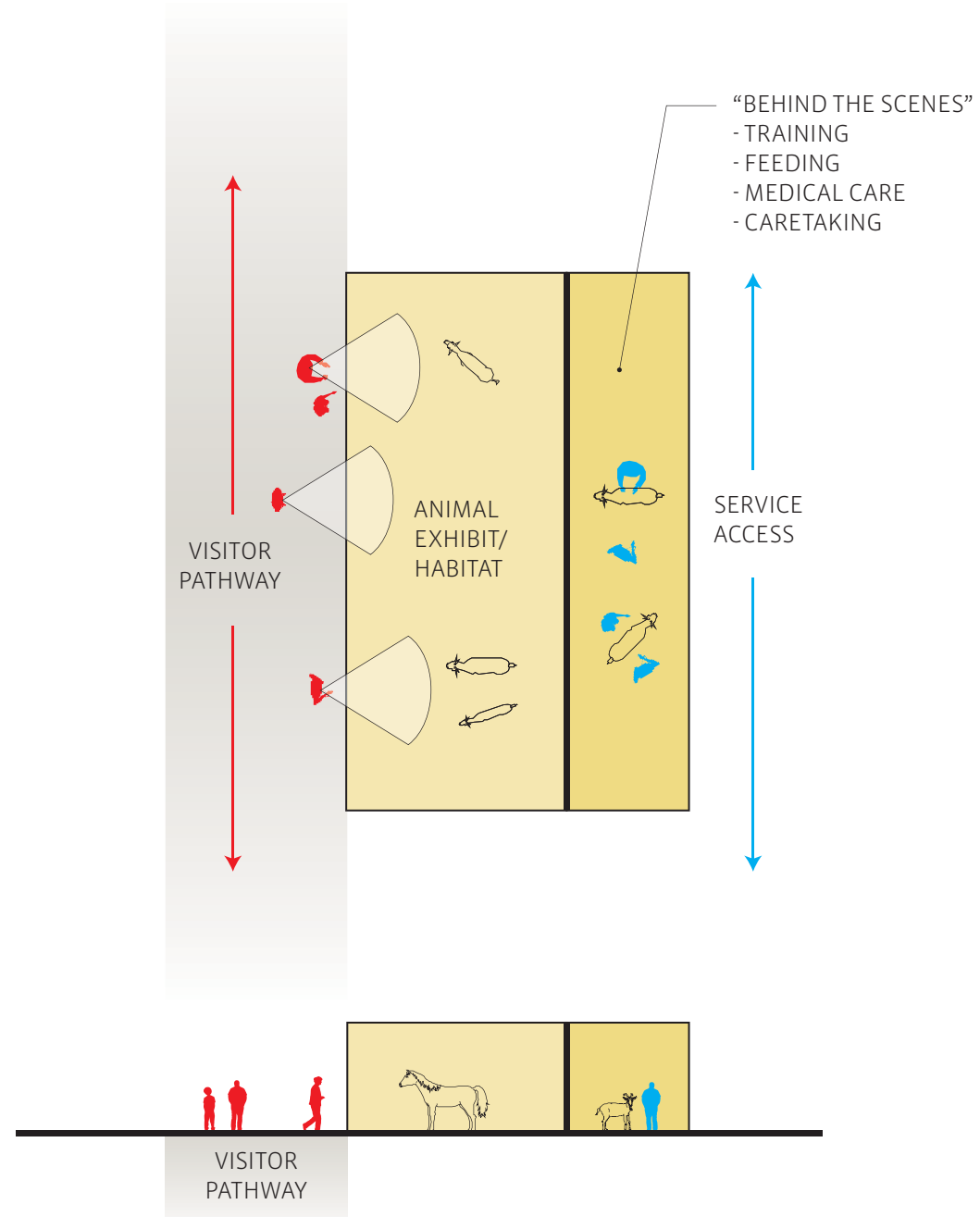
Teaching Zoo



Glacier Run
Louisville Zoo, Louisville, KY

- Visitors view all areas where animals are kept and trained
- Animal training and care activities are front and center, allowing visitors to learn how zoo keepers work to care for animals
- Visitors can interact with students and zoo keepers to learn about animals and about careers in animal care
- Modular design and flexible barriers between spaces create multiple options for growing or contracting habitats as the zoo’s collection changes.

Conventional Zoo Experience



“Behind the Scenes” Teaching Zoo Visitor Experience

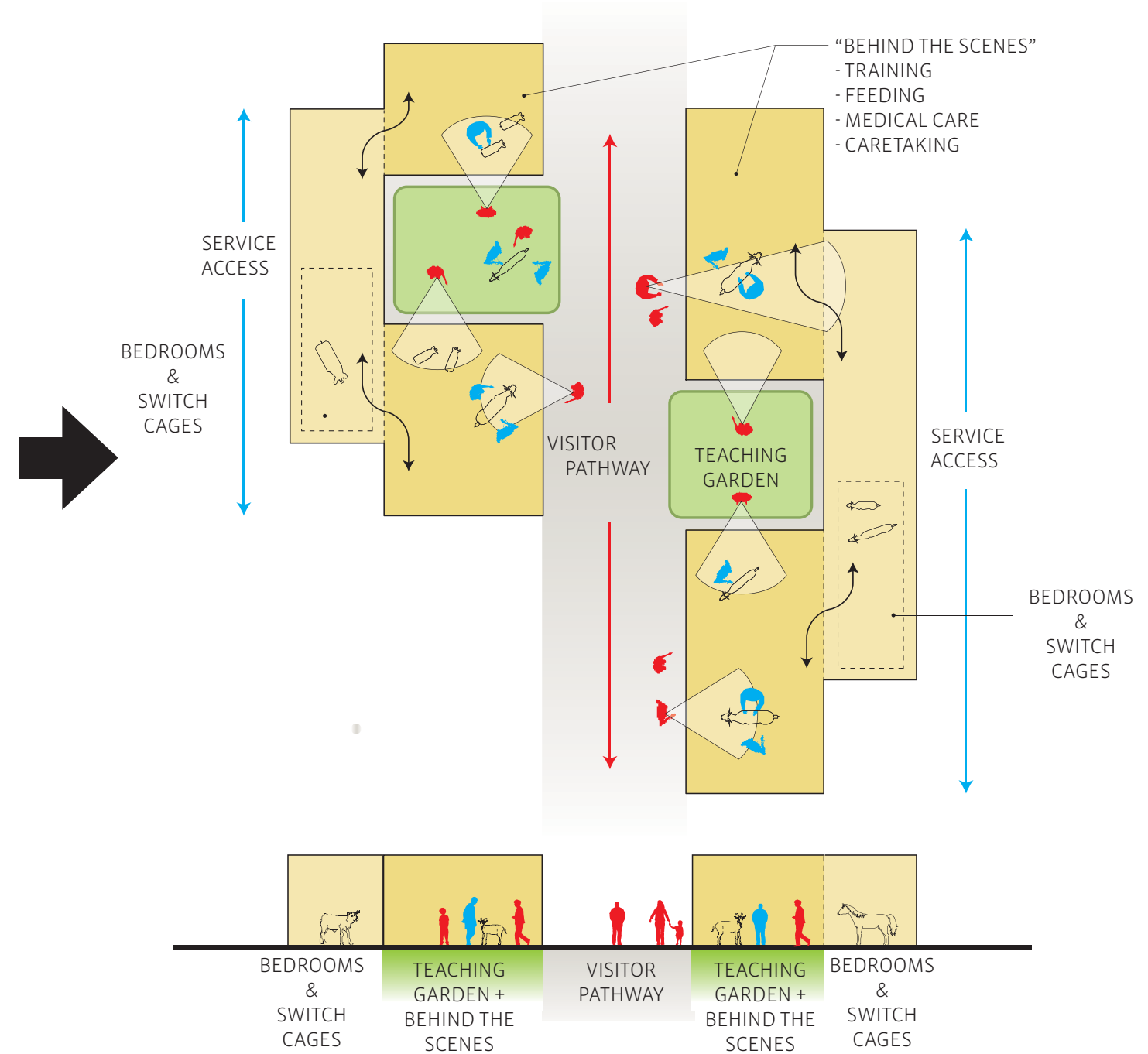


Fig 7.2
**Design
Concept**

7.3 Built Systems

The building and facilities concept will maintain and improve existing facilities that are in generally good condition and over time replace existing buildings and facilities that are in poor condition.

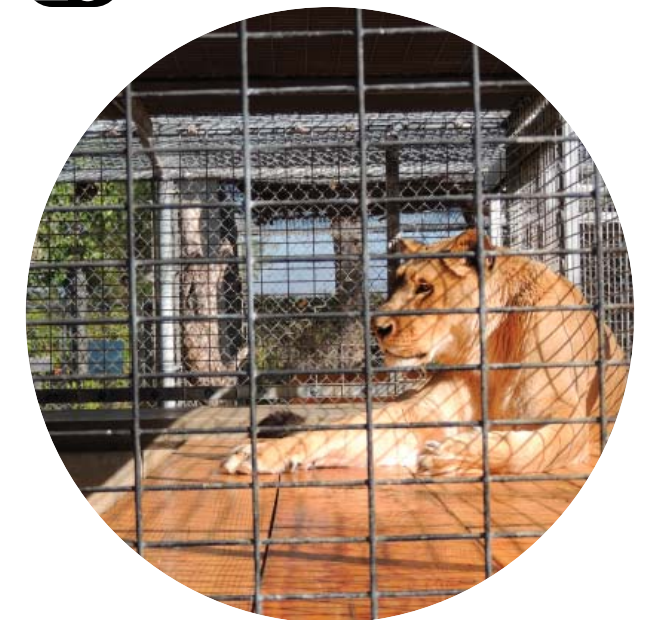
2 New Zoo Operations Building



3 Existing Theater to be refurbished



23 Existing Carnivore Exhibit to be demolished and relocated



16 Commissary to be replaced with new Animal Kitchen



18 Treatment Room to be replaced with new Veterinary Center



19 Existing Primate Gardens to be expanded and enhanced





Fig 7.3
Development
Concept

- | | | | | |
|----------------------------------|-----------------------------------|-------------------------------|----------------------------------|-------------------------------------|
| 1 Entry Plaza | 7 Conservation Lab | 13 Central Picnic Area | 19 Primate Gardens | New Facilities |
| 2 Zoo Operations Building | 8 Exotic Hoofstock Area | 14 Tortoise Habitat | 20 Marine Mammal Facility | Existing Facilities to be Renovated |
| 3 Main Theater | 9 Small Mammal Facility | 15 Workshop Area | 21 Quarantine Area | Existing Facilities to Remain |
| 4 Event Lawn | 10 Aviary | 16 Animal Kitchen | 22 Hillside Theater | Zoo Perimeter |
| 5 East Picnic Area | 11 Reptile House | 17 Off-Exhibit Housing | 23 Carnivore Habitat | |
| 6 California Habitat | 12 Domestic Hoofstock Area | 18 Veterinary Center | | |
- N
 Scale 1" = 100'-0" @ 11"x17"
 0 50 100



Fig 7.4
Building Use
Concept

Administration / Academic	Roof Above
Visitor Services / Amenities	Existing Buildings
Animal Care	Other Structures
Storage / Other	Animal Enclosures
New Buildings	Zoo Perimeter

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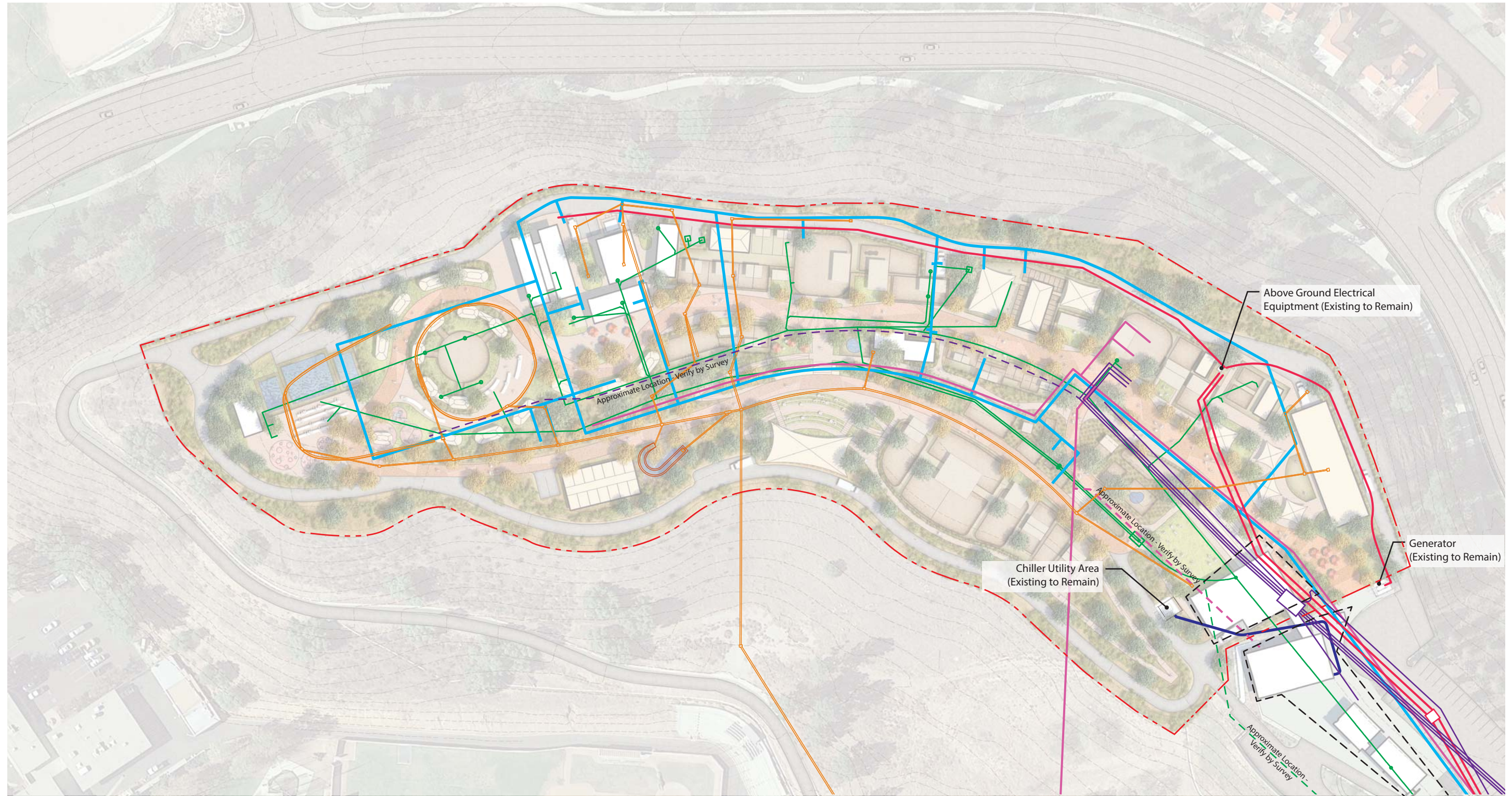


Fig 7.5
Utilities &
Infrastructure Concept

— Electricity	— Water	 New Buildings
— Telecomm	— Chilled Water	 Existing Buildings
— Gas	— Sewer	 Other Structures
	— Storm Drain	 Animal Enclosures
		 Zoo Perimeter

Note: Dashed lines indicate approximate locations.

N

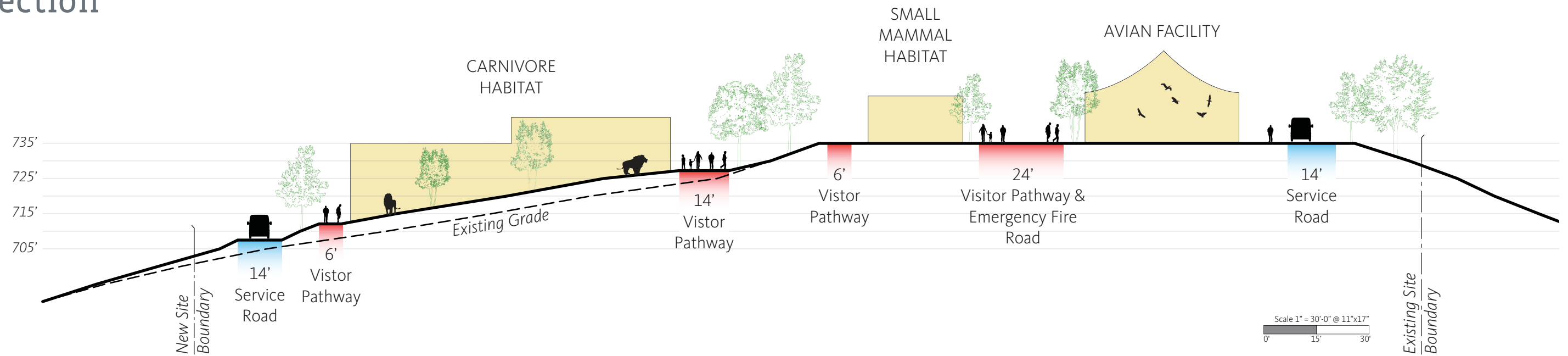
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7.4 Natural Systems

The landscape concept and planting plan will preserve and enhance existing trees and provide shade, color and variety. Throughout the zoo, native and drought-tolerant planting will enhance visitor experience and reduce water use and erosion.



Section



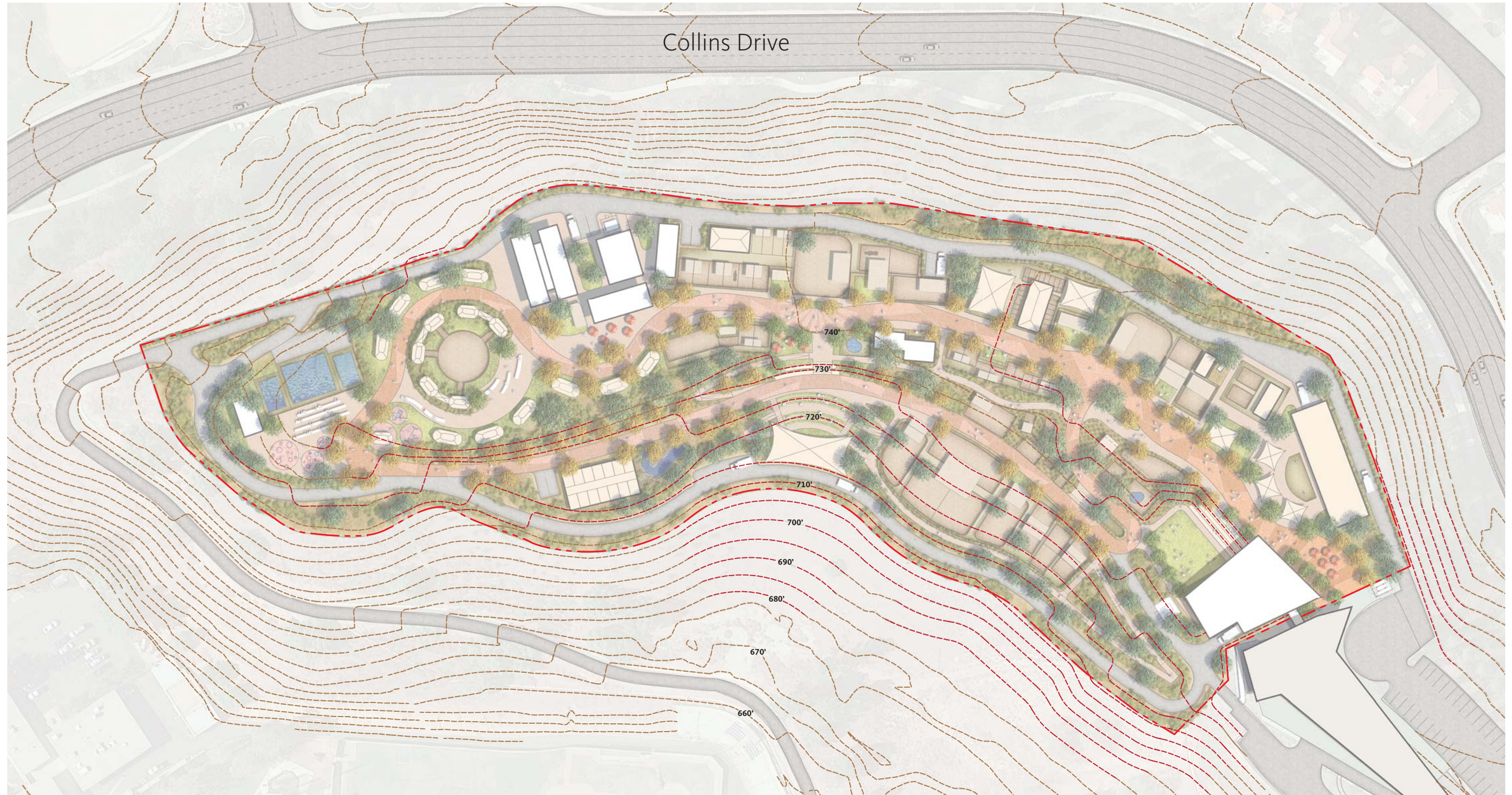


Fig 7.6
Grading Concept





Fig 7.7
Tree Planting
Concept

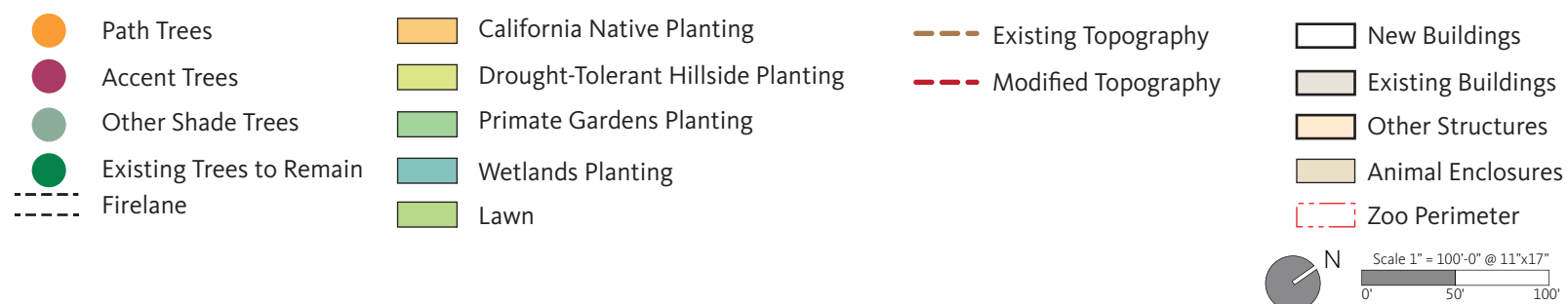
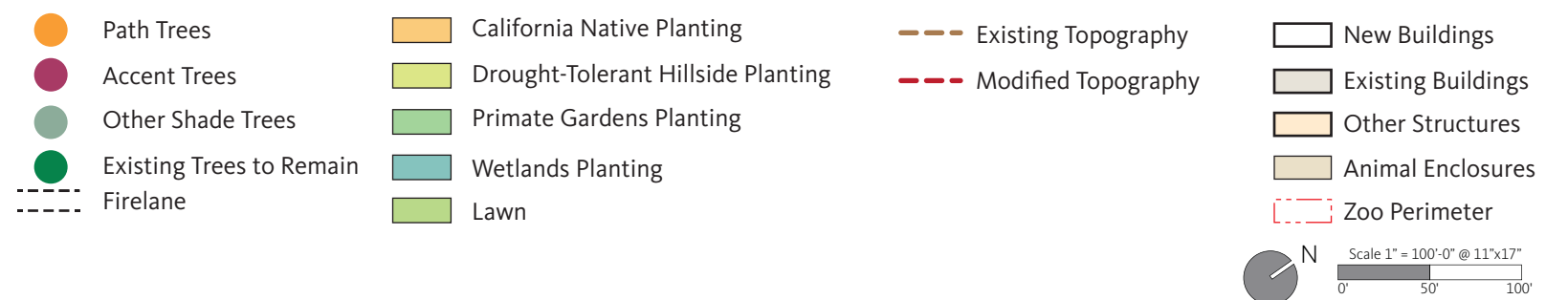




Fig 7.8
Landscape
Concept



7.5 Visitor Experience

New open spaces and teaching gardens will provide a variety of learning experiences for students and visitors.

 Entry Plaza



 Hillside Theater



 Entry Picnic Area



 Exotic Birds Garden



 Kids Water Play Area



 Wetland Garden / Bioswale





Fig 7.9
Amenities & Open Space
Concept

Visitor Information	Entry Plaza	New Buildings
Theater	Teaching Gardens	Existing Buildings
Visitor Restrooms	Recreation/Event Lawn	Other Structures
Potential Food Service	Playground	Animal Enclosures
Picnic Area		Zoo Perimeter

N
 Scale 1" = 100'-0" @ 11"x17"
 0' 50' 100'



The Wilson Family
Carnivore Habitat

African Lions



America's Teaching Zoo
Hillside Theater



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8.0 ENLARGED AREA PLANS & DESIGN GUIDELINES

8.1 Enlarged Area Plans

- Entry Area
- East Zoo Area
- Central Zoo Area
- Animal Care Center
- West Zoo Area
- Hillside Expansion Area
- California Gardens Area

8.2 General Design Guidelines

8.3 Access & Circulation Design Guidelines

8.4 Amenities & Open Space Design Guidelines

8.5 Landscape & Planting Design Guidelines

8.6 Signage & Wayfinding Design Guidelines

8.7 Animal Facilities Design Guidelines

8.8 Building Design Guidelines












8.1 Enlarged Area Plans

Site Plan

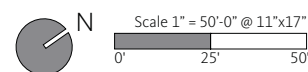
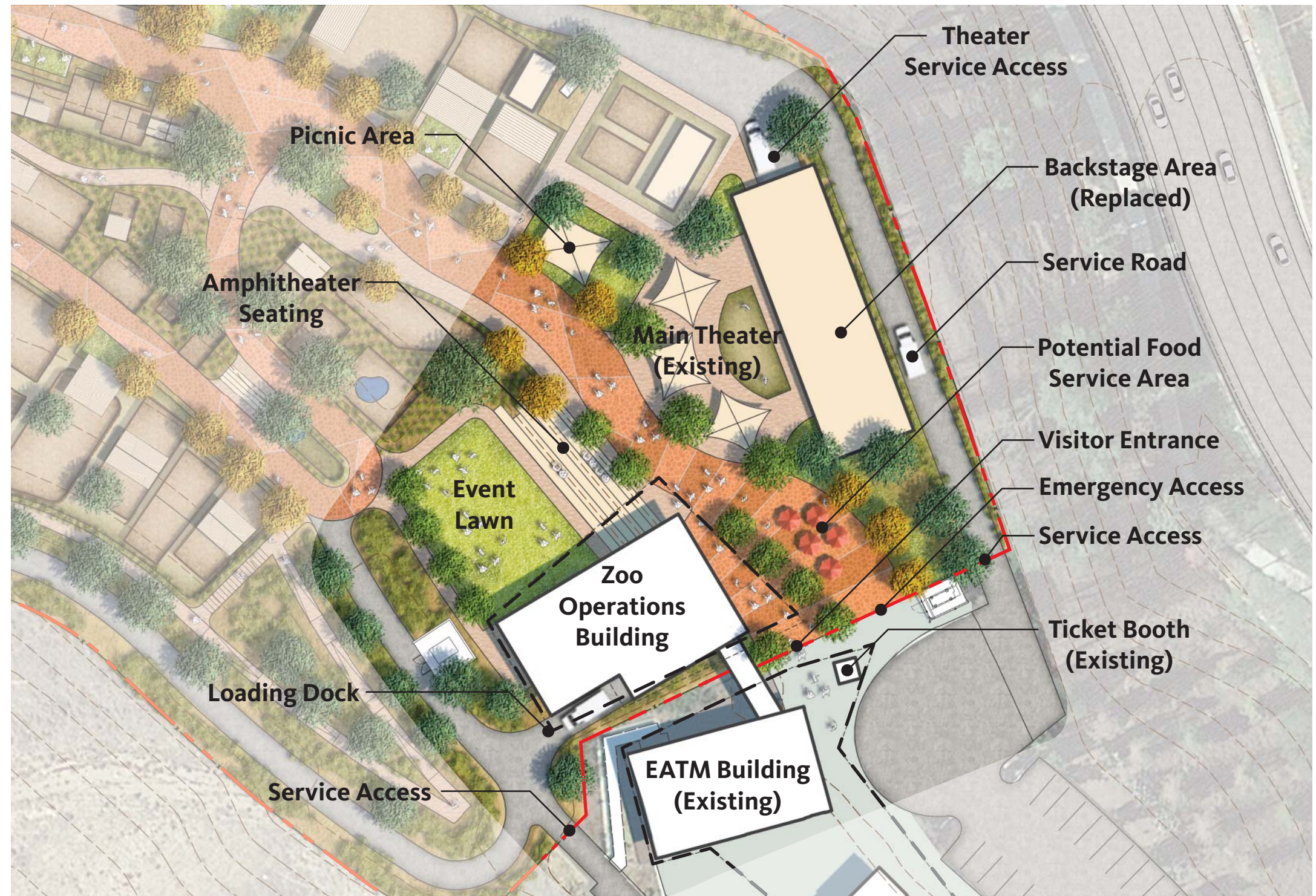


Entry Area

Key Elements








-  Entry Plaza
-  Visitor Information
-  Recreation / Event Lawn
-  Picnic Area
-  Theater
-  Potential Food Service
-  Restrooms
-  Wayfinding Signage
-  Donor Opportunities

Detailed Plan

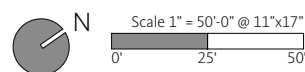


East Zoo Area

Key Elements










-  Aviary
-  Conservation Lab
-  Exotic Hoofstock Facility
-  Small Mammal Facility
-  Teaching Garden
-  Interpretive Signage
-  Wayfinding Signage

Detailed Plan

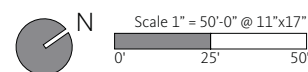
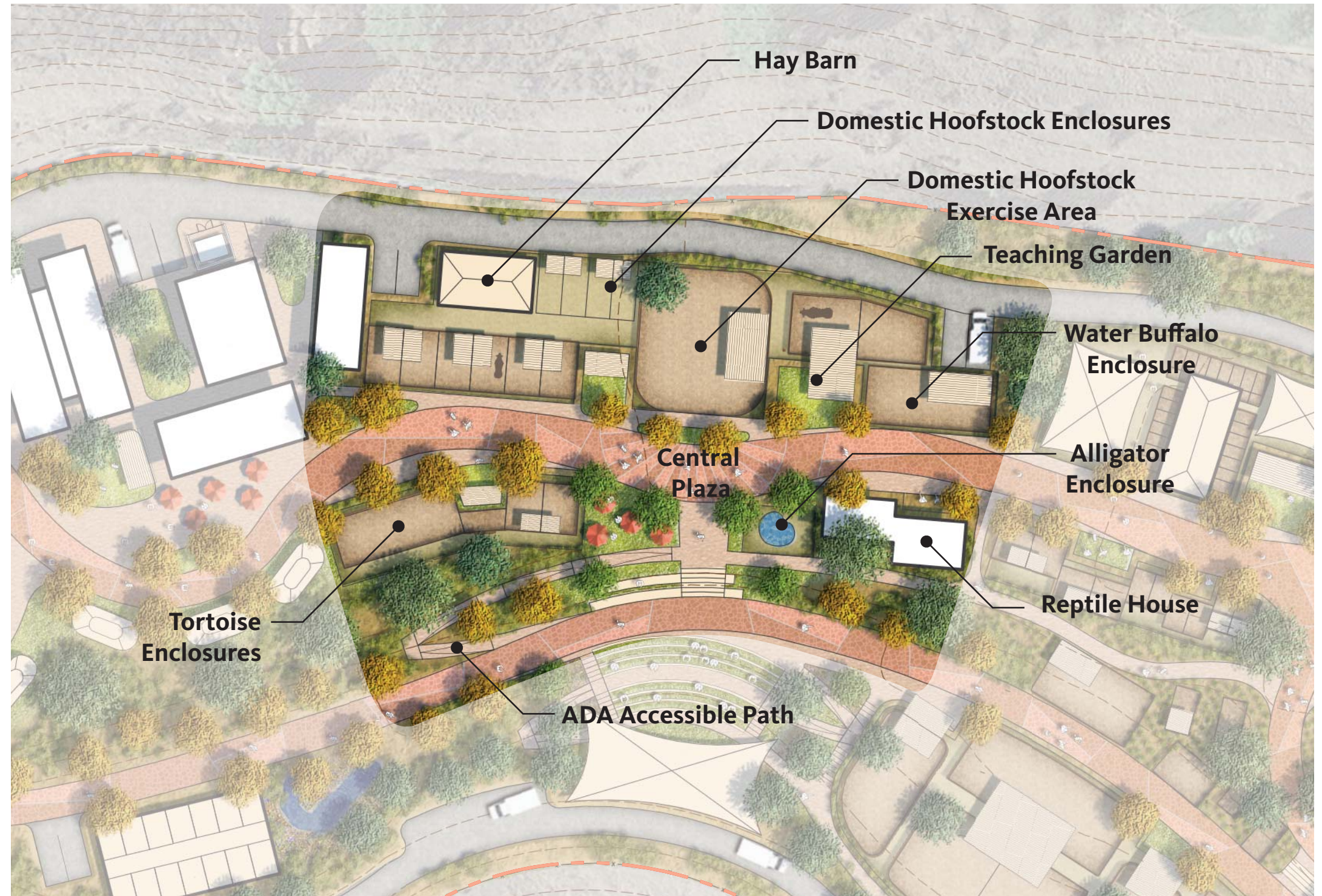


Central Zoo Area

Key Elements









-  Domestic Hoofstock
-  Alligator Habitat
-  Tortoise Habitat
-  Reptile House
-  Visitor Information
-  Picnic Area
-  Teaching Garden
-  Interpretive Signage
-  Wayfinding Signage

Detailed Plan

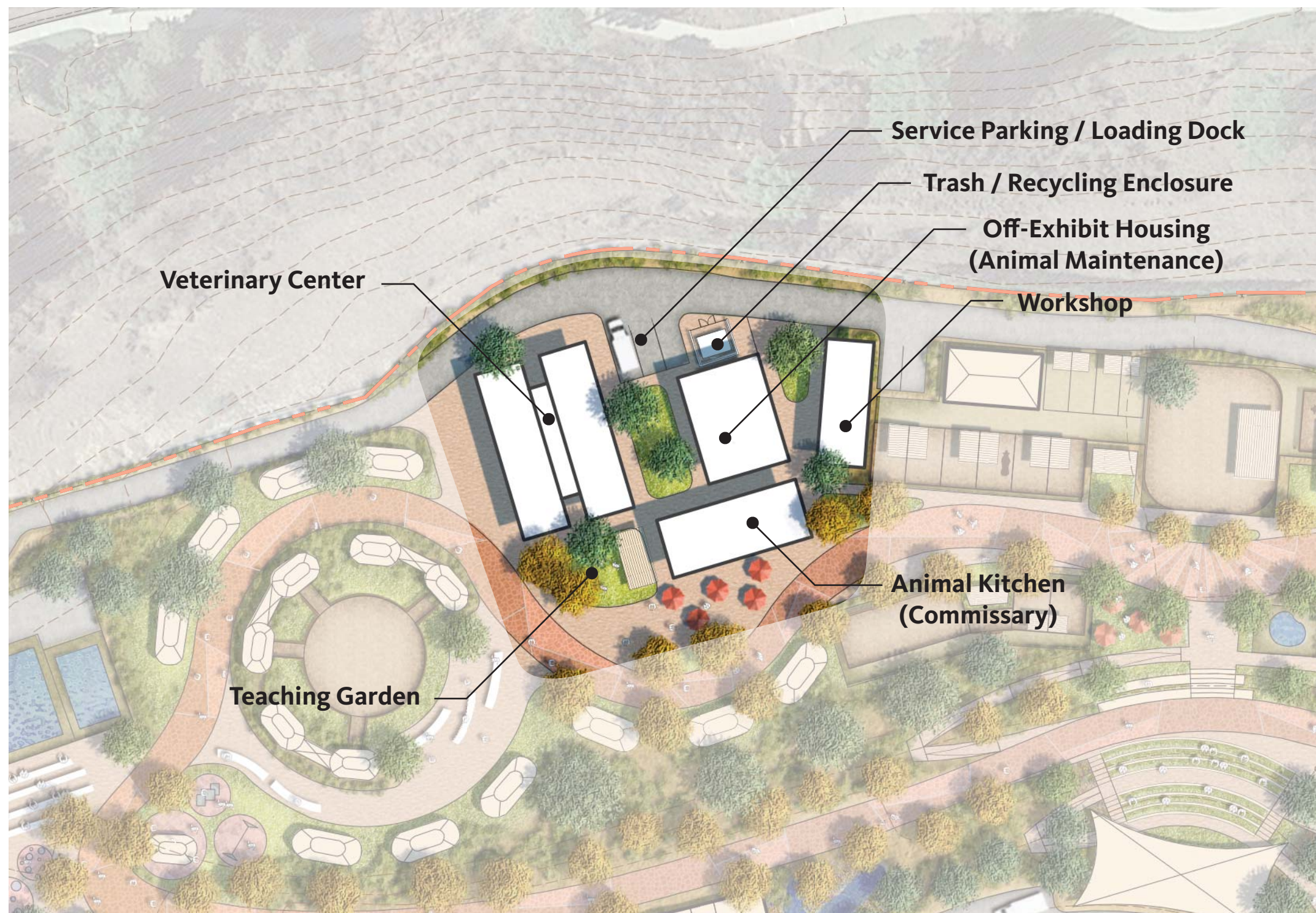


Animal Care Center

Key Elements









-  Veterinary Center
-  Animal Kitchen
-  Workshop Area
-  Teaching Garden
-  Potential Food Service
-  Restrooms
-  Interpretive Signage
-  Donor Opportunities

Detailed Plan

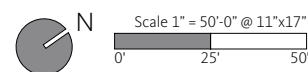
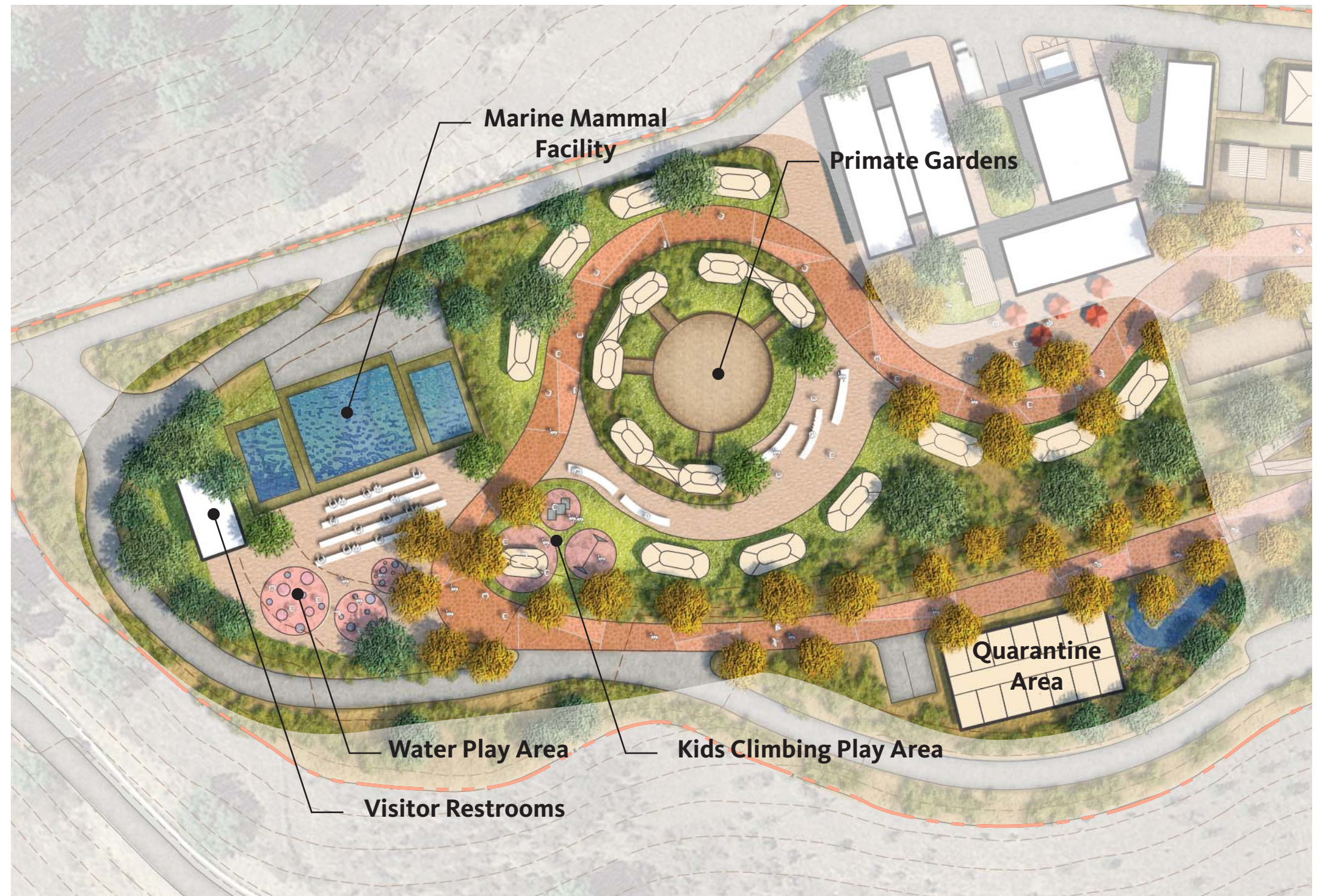


West Zoo Area

Key Elements







-  Primate Gardens
-  Marine Mammal Facility
-  Play Area
-  Teaching Gardens
-  Restrooms
-  Interpretive Signage
-  Wayfinding Signage
-  Donor Opportunities

Detailed Plan

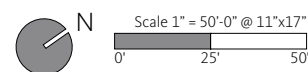
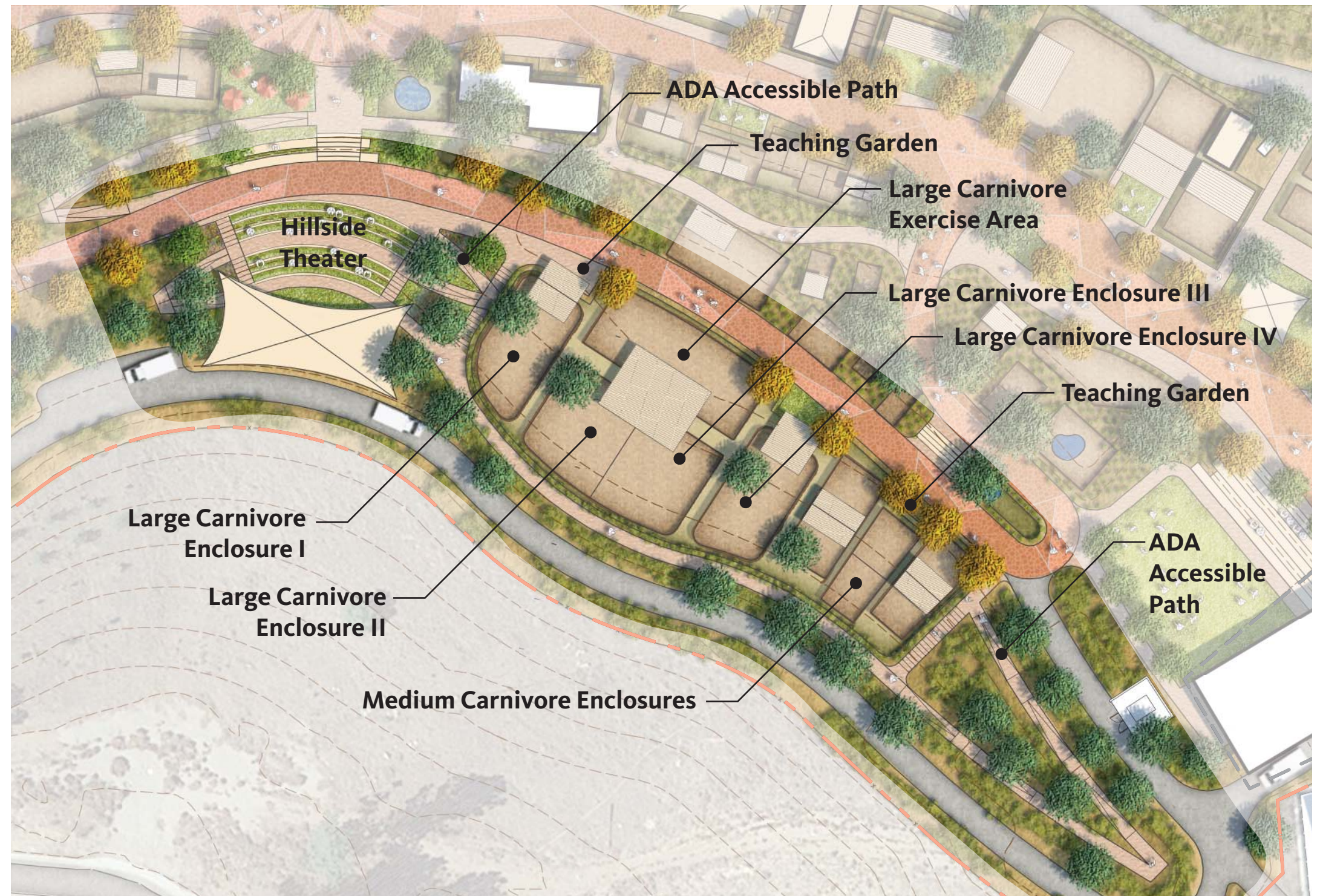


Hillside Expansion Area

Key Elements






-  Carnivore Habitat
-  Hillside Theater
-  Teaching Gardens
-  Interpretive Signage
-  Wayfinding Signage
-  Donor Opportunities

Detailed Plan

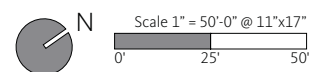


California Gardens Area

Key Elements

-  California Gardens
-  Teaching Gardens
-  Interpretive Signage
-  Wayfinding Signage
-  Donor Opportunities

Detailed Plan



8.2 General Design Guidelines

Overview

These general design guidelines establish the character and basis for design for the future development of the Zoo. The following sections provide specific guidance for each element of the built environment to ensure the design adheres to the principles of the Master Plan while allowing flexibility to accommodate future needs.

Design Character

In general, all elements of the built environment should reflect a consistent character, establishing a comprehensive campus-wide aesthetic and reflecting the brand and identity of America's Teaching Zoo. Improvements should embody the principle that "behind the scenes is front and center" through design elements that maximize transparency and visitor experience.

The existing EATM building and proposed new Zoo Operations Building and Entry Plaza will establish the design character for the Zoo, with natural materials, expansive shaded areas, and indoor-outdoor spaces. This design character will continue throughout the Zoo, through the use of similar materials and formal elements.

Sustainability

All facilities and exhibits should incorporate sustainable design, reflecting the principles of fiscal and environmental sustainability. This section provides an overview of the sustainable elements that are incorporated throughout the site. Specific sustainable design elements are described in greater detail in the following sections.

Natural Environment

The natural characteristics of the site should be preserved to the greatest extent possible. Site grading should focus on both function and aesthetics. Cuts and fills should be balanced across the site, reducing the need to haul materials on or off site by truck.

To the extent possible, new buildings, exhibits, pathways and landscaping should be located to avoid significant stands of vegetation and/or mature native specimen plants.

Energy Use

All facilities should incorporate design strategies to reduce energy usage such as natural ventilation, passive cooling through shading and

use of natural light. Energy-saving technology such as LED fixtures and demand-responsive lighting should be incorporated into all buildings, animal enclosures, path lighting and other facilities as appropriate.

Water Use

Buildings, open spaces and landscaping should be designed to reduce water use and encourage water conservation. Within buildings, water-saving fixtures should be used. All landscaped areas and open spaces should incorporate drought tolerant plantings and the use of turf should be limited to the areas designated for recreational use.

Buildings, paved areas and landscaped open space should be integrated with site-wide water conservation systems, such as cisterns or detention basins to capture and reuse run-off from buildings and paved paths.

Universal Design

All elements of the building environment within the Zoo, including circulation, buildings and signage, should be accessible and usable by all students, staff and visitors regardless of their age or ability to the greatest extent possible.

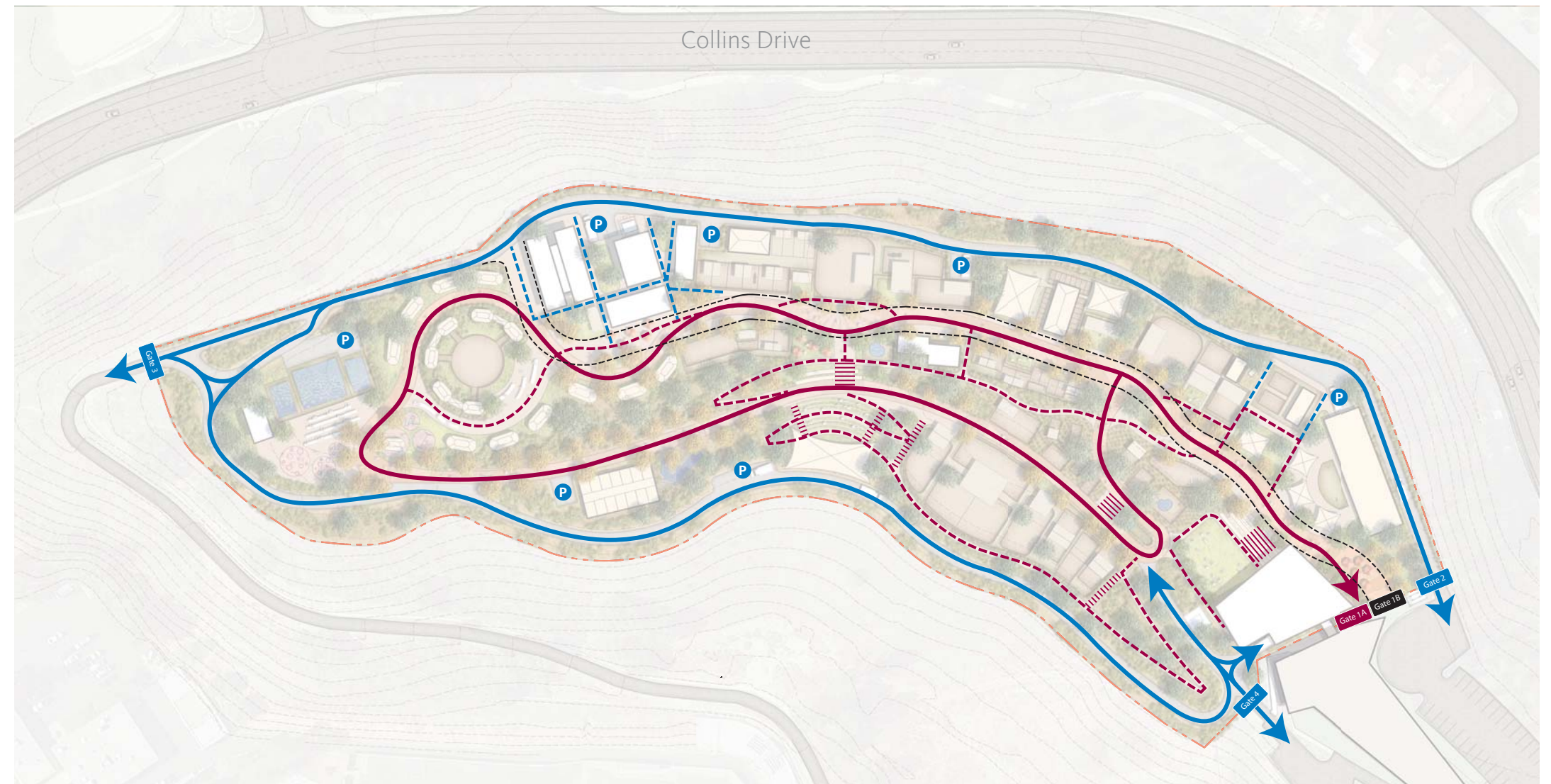


Fig 8.1
Master Plan
Overview

- | | | | | |
|---------------------------|---------------------------|-----------------------|--------------------------|----------------------|
| ① Entry Plaza | ⑦ Conservation Lab | ⑬ Central Picnic Area | ⑲ Primate Gardens | □ New Buildings |
| ② Zoo Operations Building | ⑧ Exotic Hoofstock Area | ⑭ Tortoise Habitat | ⑳ Marine Mammal Facility | ▨ Existing Buildings |
| ③ Main Theater | ⑨ Small Mammal Facility | ⑮ Workshop Area | ㉑ Quarantine Area | ▨ Other Structures |
| ④ Event Lawn | ⑩ Aviary | ⑯ Animal Kitchen | ㉒ Hillside Theater | ▨ Animal Enclosures |
| ⑤ East Picnic Area | ⑪ Reptile House | ⑰ Off-Exhibit Housing | ㉓ Carnivore Habitat | ⋯ Zoo Perimeter |
| ⑥ California Habitat | ⑫ Domestic Hoofstock Area | ⑱ Veterinary Center | | |
- N
 Scale 1" = 100'-0" @ 11"x17"
 0' 50' 100'

8.3 Access & Circulation Design Guidelines

Concept Plan



Circulation Type	Use	Width / Slope	Key Elements	Sustainability
 Path	<ul style="list-style-type: none"> > Main visitor loop > Student Circulation > Fire lane 	<ul style="list-style-type: none"> > 15' - 25' > Maximum slope 1:12 per ADA requirements 	<ul style="list-style-type: none"> > Concrete paver system > Integrated graphic pattern / signage 	<ul style="list-style-type: none"> > Utilize permeable paving > Provide shade structures and trees to reduce heat gain
 Secondary Path	<ul style="list-style-type: none"> > Additional circulation connecting upper level to new hillside habitats 	<ul style="list-style-type: none"> > Varies > Maximum slope 1:12 per ADA requirements 	<ul style="list-style-type: none"> > Decomposed granite pathway > Furniture / seating areas 	<ul style="list-style-type: none"> > Utilize permeable paving > Provide shade structures and trees to reduce heat gain
 Primary Service Access	<ul style="list-style-type: none"> > Vehicular service loop 	<ul style="list-style-type: none"> > 14' - 24' 	<ul style="list-style-type: none"> > Concrete or asphalt roadway 	<ul style="list-style-type: none"> > Utilize permeable paving > Capture / filter storm-water run-off
 Secondary Service Access	<ul style="list-style-type: none"> > Non-vehicular service access 	<ul style="list-style-type: none"> > 6' -12' > Maximum slope 1:12 per ADA requirements 	<ul style="list-style-type: none"> > Concrete or decomposed granite pathway 	<ul style="list-style-type: none"> > Utilize permeable paving > Capture / filter storm-water run-off
 Fire Access	<ul style="list-style-type: none"> > Emergency vehicle access 	<ul style="list-style-type: none"> > 24' 	<ul style="list-style-type: none"> > Concrete or asphalt roadway 	<ul style="list-style-type: none"> > Utilize permeable paving > Capture / filter storm-water run-off

Access & Circulation

Precedent Images



Pattern to define main pathway
Levinson Plaza - Boston, Massachusetts



Visitor / Pedestrian Zoo Entrance
America's Teaching Zoo - Moorpark, California



Pattern to define main pathway
Funenpark - Amsterdam, Netherlands

Detailed Guidelines

Gate Visitor / Pedestrian Gate

The Visitor / Pedestrian Gate is the primary entrance for students and visitors.

Design Specifications

- > Six (6) foot minimum width
- > Create an Iconic, welcoming design
- > Provide secure access

Gate Service / Vehicular Gate

Service / Vehicular Gates are the primary access points for deliveries and zoo vehicles.

Design Specifications

- > Fourteen (14) foot minimum width
- > Provide secure access separate from visitor / pedestrian gate

Gate Emergency / Fire Gate

Emergency / Fire Gates are for emergency access only.

Design Specifications

- > Twenty-four (24) foot minimum width
- > Provide secure access separate from visitor / pedestrian gate

Access & Circulation

Precedent Images



Mixture of paving options



Furniture blends path and landscape
Allée de Berlin Spandau - Paris, France



Stairs though Central Park
Muscat, Oman



Interactive furniture
Zoo Dresden - Dresden, Germany

Detailed Guidelines

— Primary Path

The Primary Path is the main visitor route through the zoo, connecting all exhibits and facilities. It may include wayfinding info graphics, animal graphic patterns, and donor recognition opportunities.

Design Characteristics

- › Fourteen (14) foot minimum width; twenty-four (24) foot maximum width
- › Incorporate wayfinding signage along path and at interactions
- › Provide shade trees for pedestrian comfort
- › Incorporate enhanced paving materials

--- Secondary Path

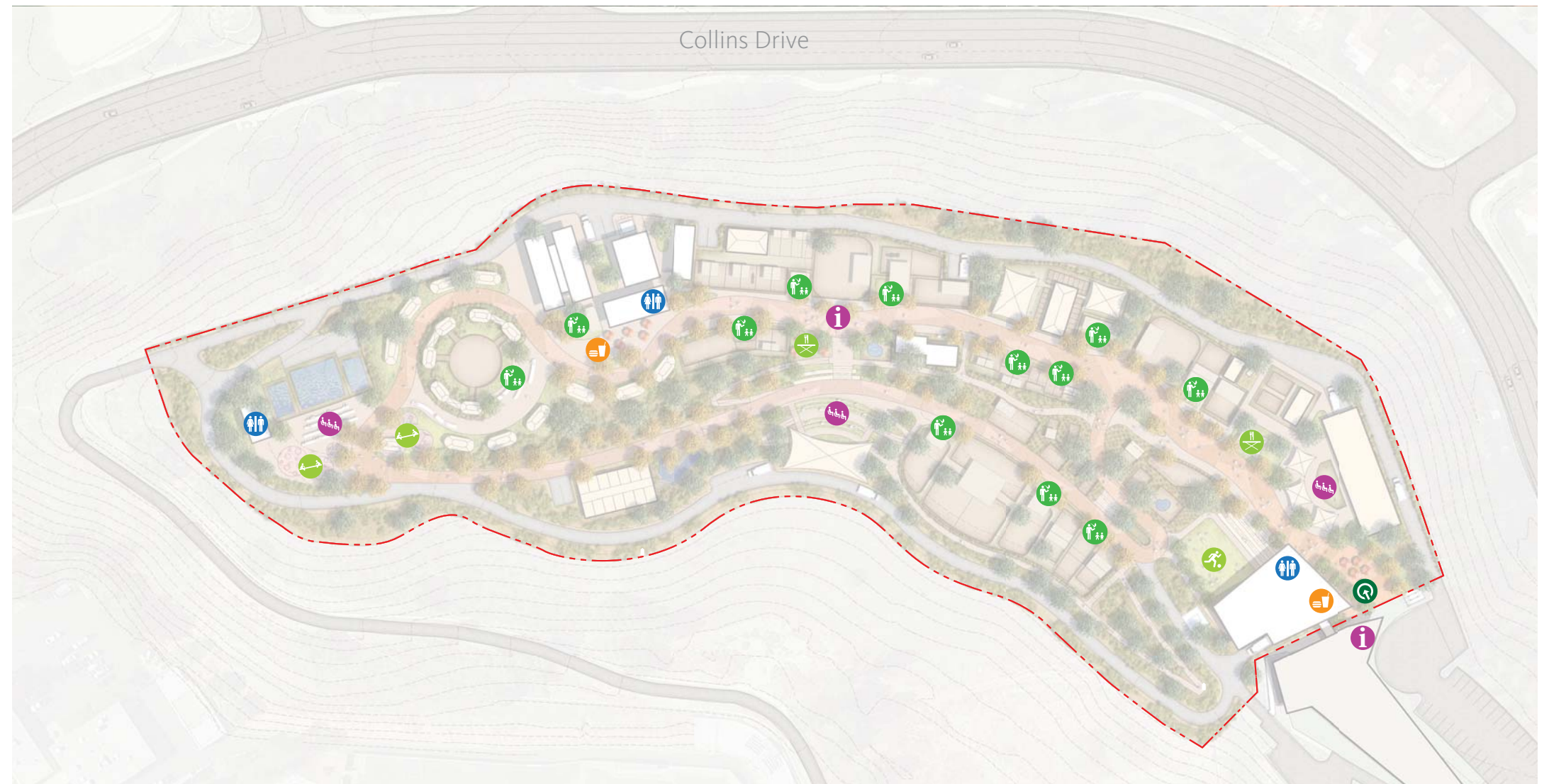
Secondary paths branch off from the main pathway, leading to exhibits and creating gathering spaces and plazas along the Primary Path.






Design Characteristics

- › Width varies according to location
- › Provide plazas / gathering spaces throughout the zoo
- › Incorporate natural or porous paving material
- › Provide furniture and seating area

8.4 Amenities & Open Space Design Guidelines

Concept Plan



Open Space Type	Use	Size	Capacity	Key Elements	Sustainability
 Entry Plaza	<ul style="list-style-type: none"> > Information kiosk > School tour drop off and orientation area > Event reception area 	<ul style="list-style-type: none"> > 60' x 60' (3,600 sf) 	<ul style="list-style-type: none"> > 360 (standing) 	<ul style="list-style-type: none"> > Paving pattern > Seating area near F&B > Accent trees 	<ul style="list-style-type: none"> > Utilize permeable paving > Incorporate native plants / trees
 Event/Recreation Lawn	<ul style="list-style-type: none"> > Fund raising gala > Summer camp activities > EATM graduation > Weddings 	<ul style="list-style-type: none"> > 50' x 100' (5,000 sf) 	<ul style="list-style-type: none"> > 500 (standing reception) > 370 (banquet tables) 	<ul style="list-style-type: none"> > Flexible open area > Power supply for events > Adjacency to visitor amenities/ facilities 	<ul style="list-style-type: none"> > Utilize drought resistant lawn
 Theaters	<ul style="list-style-type: none"> > Animal shows > Teaching of trainers 	<ul style="list-style-type: none"> > Main theater: 10,080 sf > Hillside theater: 4,560 sf 	<ul style="list-style-type: none"> > Main theater: 350 seats > Hillside theater: 200 seats 	<ul style="list-style-type: none"> > Bleacher seating > Shade structures 	<ul style="list-style-type: none"> > Provide natural ventilation > Use natural grade
 Picnic Areas	<ul style="list-style-type: none"> > School field trip & summercamp eating area > EATM student study area 	<ul style="list-style-type: none"> > Entry Picnic: 45' x 45' (2,000 sf) > Central Park Picnic: 65' x 50' (3,250 sf) 	<ul style="list-style-type: none"> > Entry Picnic: 200 people > Central Park Picnic: 325 people 	<ul style="list-style-type: none"> > Tensile structure or umbrellas for shading > Adjacency to visitor amenities/ facilities 	<ul style="list-style-type: none"> > Provide compost / recycling bins > Incorporate drought-tolerant landscaping
 Teaching Gardens	<ul style="list-style-type: none"> > Interpretive exhibits > Themed landscapes > Information kiosks > Informal gathering 	<ul style="list-style-type: none"> > 400 sf - 1,500 sf 	<ul style="list-style-type: none"> > 14 - 50 people 	<ul style="list-style-type: none"> > Lawn area for animals > ADA-compliant paving > Visitor seating > Shade structures 	<ul style="list-style-type: none"> > Provide bioswale > Incorporate drought-tolerant landscaping

Amenities & Open Space

Precedent Images



Pathway clearly defined by landscape edge
Adelaide Zoo - Adelaide, Australia



Entry plaza with seating near cafe
Adelaide Zoo - Adelaide, Australia



Banquet Event Setup



Wedding Setup

Detailed Guidelines

Entry Plaza

The Entry Plaza is a welcoming open space for visitors and groups to gather. It also serves as an additional outdoor event reception venue, and may be used in conjunction with the Event Lawn.

Design Specifications

- > Size: 60' x 60' (3,600) sf
- > Guest Capacity: 360 people (standing reception) or 265 people (banquet seating)
- > Paving pattern may incorporate wayfinding graphics, animal graphic patterns or donor names
- > Utilize permeable paving to prevent excess storm-water run-off
- > Trees and shrubs to buffer service road and utility box
- > Incorporate seating area for potential food service, with shade provided by trees and umbrellas

Event/Recreation Lawn

A large Event / Recreation Lawn adjacent to the new Zoo Operations Building provides a venue for weddings, banquets, and summer camp activities.

Design Specifications

- > Size: 50' x 100' (5,000) sf
- > Guest Capacity: 500 people (standing reception) or 370 people (banquet seating)
- > Incorporate a paved area adjacent to the Zoo Operations Building with electrical outlets for music / DJ booth and space for catering buffet setup
- > Provide for irrigation with recycled water

Amenities & Open Space

Precedent Images



Existing Main Theater



Potential accent tree - Palo Verde



Greenery incorporated into theater seating
Oak Point Park - Plano, TX



Trees frame theater and enhance views
Taronga Zoo - Sydney, Australia

Detailed Guidelines

Theaters

Two theaters provide space for animal shows, lectures, events and learning opportunities for students.

Main Theater

- › Enhance existing theater with additional landscaping
- › Replace backstage area with new structure
- › Incorporate signage and donor recognition opportunities

Hillside Theater

- › Utilize existing grade, reducing need to cut and fill hillside
- › Incorporate flexible shade structure for stage and seating area
- › Incorporate enhanced signage and donor opportunities
- › Incorporate accent trees to frame the entry to the theater
- › Preserve / enhance existing views

Amenities & Open Space

Precedent Images



Tensile shade structure



Picnic Benches
Taste of LA Picnic in the Park - Los Angeles, CA



Sloped lawn



Shade structure in Central Park
Kardinaal Mercier Square - Jette, Belgium

Detailed Guidelines

Picnic Areas

Landscaped Picnic Areas provide flexible green space and shaded seating areas where visiting school groups and EATM students can gather to eat lunch, learn or study. Designated areas may be available for rental for birthday parties and other revenue-generating events.

Entry Picnic Area Design Specifications

- > Size: 45' x 45' (2,000 sf)
- > Capacity: 12 large picnic tables = 150 people
- > Incorporate trees and shrubs to buffer back service road parking spaces
- > Utilize drought tolerant plants, lawn and permeable paving
- > Provide tensile shade structure above picnic tables

Central Picnic Area / Plaza Design Specifications

- > Size: 65' x 50' (3,250 sf)
- > Capacity: Varies; up to 12 large picnic tables = 150 people
- > Provide a variety of tables, chairs, benches and umbrellas to allow for flexibility
- > Incorporate electrical outlet "charging stations" to allow for students to charge laptops and create temporary outdoor classrooms
- > Provide play furniture for children

Amenities & Open Space

Precedent Images



Detailed Guidelines



Teaching Gardens

Teaching gardens are landscaped areas adjacent to animal enclosures where visitors can learn and interact with trainers and animals. Teaching Gardens combine landscape, hard scape, info kiosks, and tactile play structures to enhance the educational zoo experience for kids and adults.

Design Specifications

- > Provide shading structure at location closest to animal habitat attraction or where most visitors are anticipated to congregate
- > Incorporate interpretive information about the adjacent animal habitat
- > Reflect the character of the surrounding exhibits, as detailed below



Exotic Bird Garden



Carnivore Training Garden

Exotic Bird Garden

- > Accommodate demonstrations of bird training by incorporating props such as a climbing apparatus and tree stumps
- > Provide climbing furniture for children to view exhibit from multiple levels

Carnivore Training Garden

- > Allow visitors to watch zoo keeper train lions and other carnivores with a metal mesh training wall
- > Incorporate tall grasses and natural elements at the perimeter of the teaching garden

Amenities & Open Space

Precedent Images



Kids Learning Corral



Edible Teaching Garden



Wetland Bioswale Park / Lookout Deck
Qunli National Urban Wetland Park - Heilongjiang, China



Wetlands
Bishan Park - Singapore

Detailed Guidelines

Kids Learning Corral / Hoofstock Grooming Garden

- › Provide an area for zoo keepers to bring hoofstock out to meet visitors, who may be invited to participate in grooming and feeding

Edible Teaching Garden

- › Incorporate a vegetable garden where zoo keepers can teach visitors what vegetables animals eat
- › Provide a viewing window where visitors may watch zoo keepers preparing food in the kitchen
- › Create elevated areas and viewing platforms to allow smaller children access to views

Medical Care Teaching Garden

- › Incorporate interpretive exhibit with animal sculptures to explain standard care procedures for each animal and allow kids to pretend to be zoo keepers and examine animals
- › Provide a viewing window allowing visitors to look into the Vet Building to watch EATM veterinarians give medical care to animals.

Wetland Garden/ Bioswale

- › Incorporate plants to filter storm-water / run-off from animal facilities
- › Provide interpretive signage educating visitors about environmental stewardship
- › Create an elevated boardwalk allowing visitors to walk over wetland area

Amenities & Open Space

Precedent Images



Kids Water Park
Wilhelmina Square - Leeuwarden, the Netherlands



Kids Water Park - Graphic pattern
Darling Harbor - Sydney, Australia



Detailed Guidelines

Play Areas

Landscaped areas with play equipment allow children to learn and play.













Design Specifications

- > Reflect the theme of adjacent animal exhibits, such as a water play area near the Marine Mammal Facility
- > Provide benches with shade structures
- > Incorporate graphic pattern on paving with interpretive information

8.5 Landscape & Planting Design Guidelines

Concept Plan



Tree Type	Botanical Name	Appearance	Key Elements	Sustainability
<p> California Sycamore</p>	<p><i>Platanus racemosa</i></p>		<ul style="list-style-type: none"> > Utilize animal-safe plants > Accommodate pedestrian movement and views > Complement the character of animal exhibits > Preserve existing mature trees and established plants, where possible > Mitigate visual impacts of fences with landscape treatment such as land form and planting design > Maintain natural drainage pattern to the extent possible 	<ul style="list-style-type: none"> > Utilize landscaped areas as bio-swales / rain gardens wetlands to catch and hold water run-off > Plant all hillside areas to reduce erosion and maintain soil stability > Utilize technology to monitor water and irrigation needs to reduce water use > Plant grass / turf in designated lawn areas only > Utilize reclaimed water for irrigation > Incorporate drought-tolerant and native plants > Comply with California's AB 1881-Model Water Efficient Landscape Ordinance, as appropriate
<p> Palo Verde</p>	<p><i>Cercidium floridum</i></p>			
<p> Arizona Ash</p>	<p><i>Fraxinus velutina</i></p>			
<p> Sweet Gum Tree</p>	<p><i>Liquidambar styraciflua</i></p>			
<p> Chinese Pistachio</p>	<p><i>Pistacia chinensis</i></p>			
<p> Silk Oak</p>	<p><i>Grevillea robusta</i></p>			

8.6 Signage & Wayfinding Design Guidelines

Concept Plan



Open Space Type	Use	Key Elements
 Wayfinding	<ul style="list-style-type: none"> › Signage throughout the zoo to guide the visitor through the space 	<ul style="list-style-type: none"> › Durable / waterproof materials › Flexible / changeable signs
 Interpretive / Educational Exhibits	<ul style="list-style-type: none"> › Signage to educate visitors about animals and their care 	<ul style="list-style-type: none"> › Durable / waterproof materials › Interactive signage › Flexible / changeable signs
 Donor Opportunities	<ul style="list-style-type: none"> › Recognize zoo donors and encourage financial support 	<ul style="list-style-type: none"> › Durable / waterproof materials › Graphics on the pathways › Placards on buildings or exhibits

Signage & Wayfinding

Precedent Images



Entry Signage
Taronga Zoo - Sydney Australia



Zone Signage
National Zoo - Washington DC



Zone Signage
Artscape Wychwood Barns - Toronto, Canada



Pathway Markings
National Zoo - Washington DC

Detailed Guidelines

Wayfinding

Wayfinding signage is located throughout the zoo to guide visitors through the space.

Design Specifications

- › Provide clear and easily-understood signage
- › Utilize graphics and colors to supplement text
- › Utilize a common graphic standard and consistent terminology throughout
- › Reflect the EATM / ATZ brand and identity
- › Provide tactile, visual and auditory elements to accommodate visitors with disabilities

Entry Kiosk

- › Create Information Kiosk and signage in the main plaza to orient visitors
- › Provide zoo map and times for theater events

Zone Signage

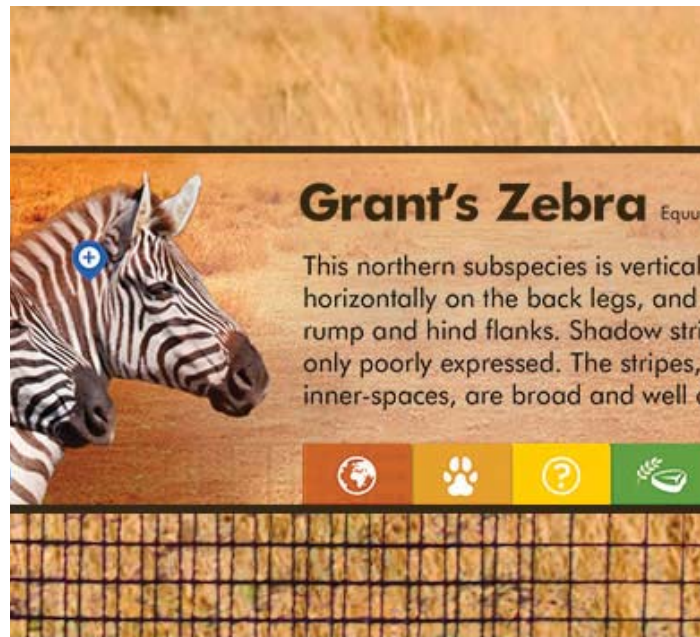
- › Incorporate signage throughout the zoo that identifies exhibits ahead
- › Utilize clear / bold graphics
- › Utilize a consistent graphic language for all signs

Pathway Markings

- › Incorporate graphics on the pathway to help guide visitor to key areas

Signage & Wayfinding

Precedent Images



Educational Signage
San Francisco Zoo - San Francisco, California



Interactive Display
Kovler Lion House, Lincoln Park, Chicago, IL



Main Pathway
Mount Royal Park - Montréal, Canada



Signage
Fresno Chaffee Zoo - Fresno, California

Detailed Guidelines

? Interpretive Exhibit / Educational Signage

Educational signage provides visitors with background information about the species in the collection and specific information about the individual animals on exhibit. Some signs will be interactive to make the exhibit fun for the children.

Design Specifications

- > Locate at the entry to each exhibit and in each of the teaching gardens
- > Provide fun, interactive and engaging signage for all ages of visitors
- > Vary height to accommodate children and adults
- > Utilize a consistent graphic style, accommodating a variety of learning styles
- > Provide tactile, visual and auditory elements that accommodate visitors with disabilities

* Donor Opportunities

Signage recognizing donors and exhibit sponsors may be incorporated throughout the zoo.

Potential Locations for Donor Recognition

- > Main Pathway / paving
- > Gate / Entry Plaza
- > Animal exhibits
- > Teaching Gardens
- > Central Park
- > Furniture throughout the zoo
- > Building names
- > Trees and landscape elements

8.7 Animal Facilities Design Guidelines

Concept Plan



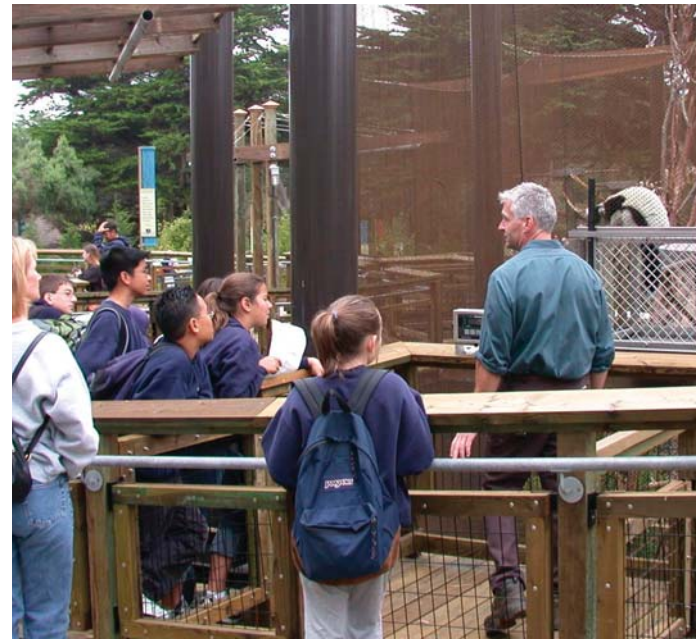
Animal Facility Type	Use	Key Elements	Sustainability
<p>Animal Enclosures</p>	<ul style="list-style-type: none"> > Housing and exhibit space for animals 	<ul style="list-style-type: none"> > Natural substrate (where appropriate) > Animal-safe landscaping within enclosures > Shade structures / indoor areas (as needed) > Secure, code compliant fencing that is also transparent and appealing to visitors > Natural behavioral enrichment elements, such as trees and rocks > Durable, low-maintenance materials 	<ul style="list-style-type: none"> > Manage waste-water run-off > Utilize permeable paving > Incorporate native and drought-tolerant landscaping > Utilize LED lighting, where appropriate
<p>Service Areas</p>	<ul style="list-style-type: none"> > Zoo keeper workspace > Animal enclosure access > Storage 	<ul style="list-style-type: none"> > Natural substrate or concrete slab > Shade structures / indoor areas (as needed) 	<ul style="list-style-type: none"> > Manage waste-water run-off > Utilize permeable paving > Incorporate native and drought-tolerant landscaping > Utilize LED lighting, where appropriate

Animal Facilities

Precedent Images



Eye to Eye view of the animals



Secure, non-visually obtrusive barriers, with mesh primary barrier and lower wooden secondary barrier.



Animal care and training in view of visitors



Natural substrate and animal-safe landscaping

Detailed Guidelines

Animal Enclosures

Animal enclosures include housing and exhibit areas.

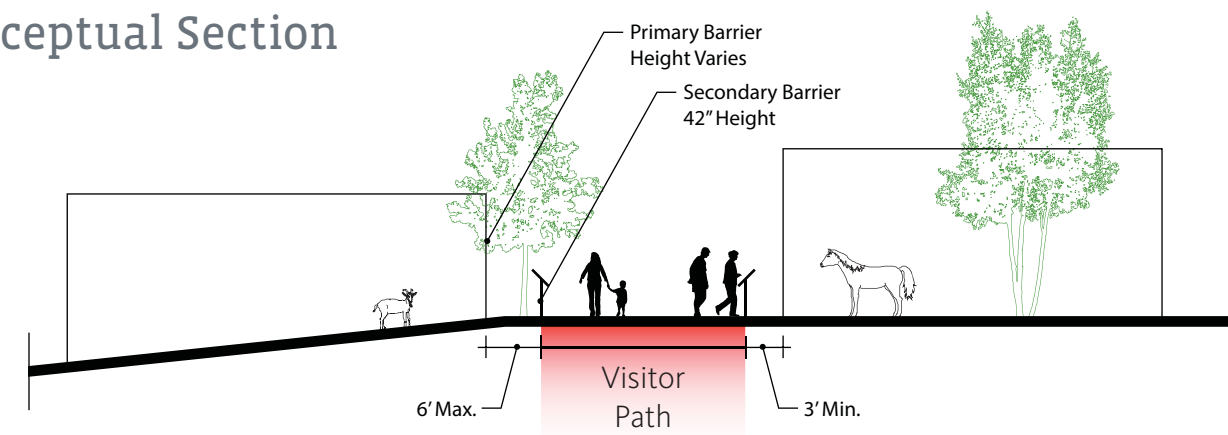
Design Priorities

- › Safe, secure and easy to maintain enclosures
- › Animal comfort and care
- › Enhanced viewing experience
- › Adhere to applicable government regulations, such as California Department of Fish and Wildlife regulations and requirements

Design Specifications

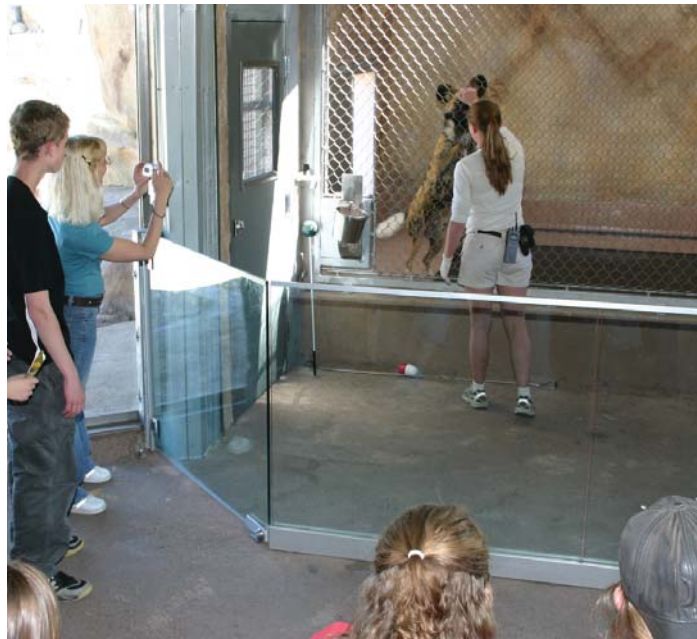
- › Maintain minimum distance between enclosures, and between visitors and animals
- › Utilize minimally obtrusive fence materials, while ensuring security, safety and code compliance
- › Utilize lower secondary barriers (as appropriate)
- › Incorporate natural elements and materials such as natural substrate, wood and rocks as well as animal-safe landscape materials
- › Provide rain, heat and cold-weather protection as needed
- › Incorporate behavioral enrichment, including where visible by visitors
- › Incorporate shift cages and removable partitions to allow maximum flexibility in operations
- › Refer to program for size specifications

Conceptual Section



Animal Facilities

Precedent Images



Glass barrier



Visible service / training area



Service area



Storage area

Detailed Guidelines

Service Areas

Service areas provide access to support animal enclosures.

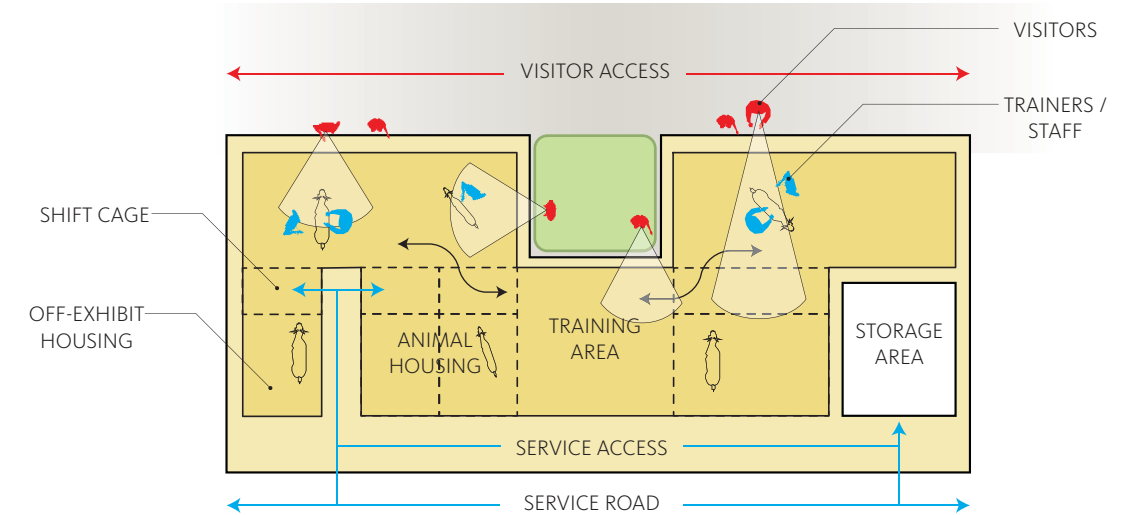
Design Priorities

- > Safe, secure and code compliant
- > Easy to maintain
- > Functional and flexible

Design Specifications

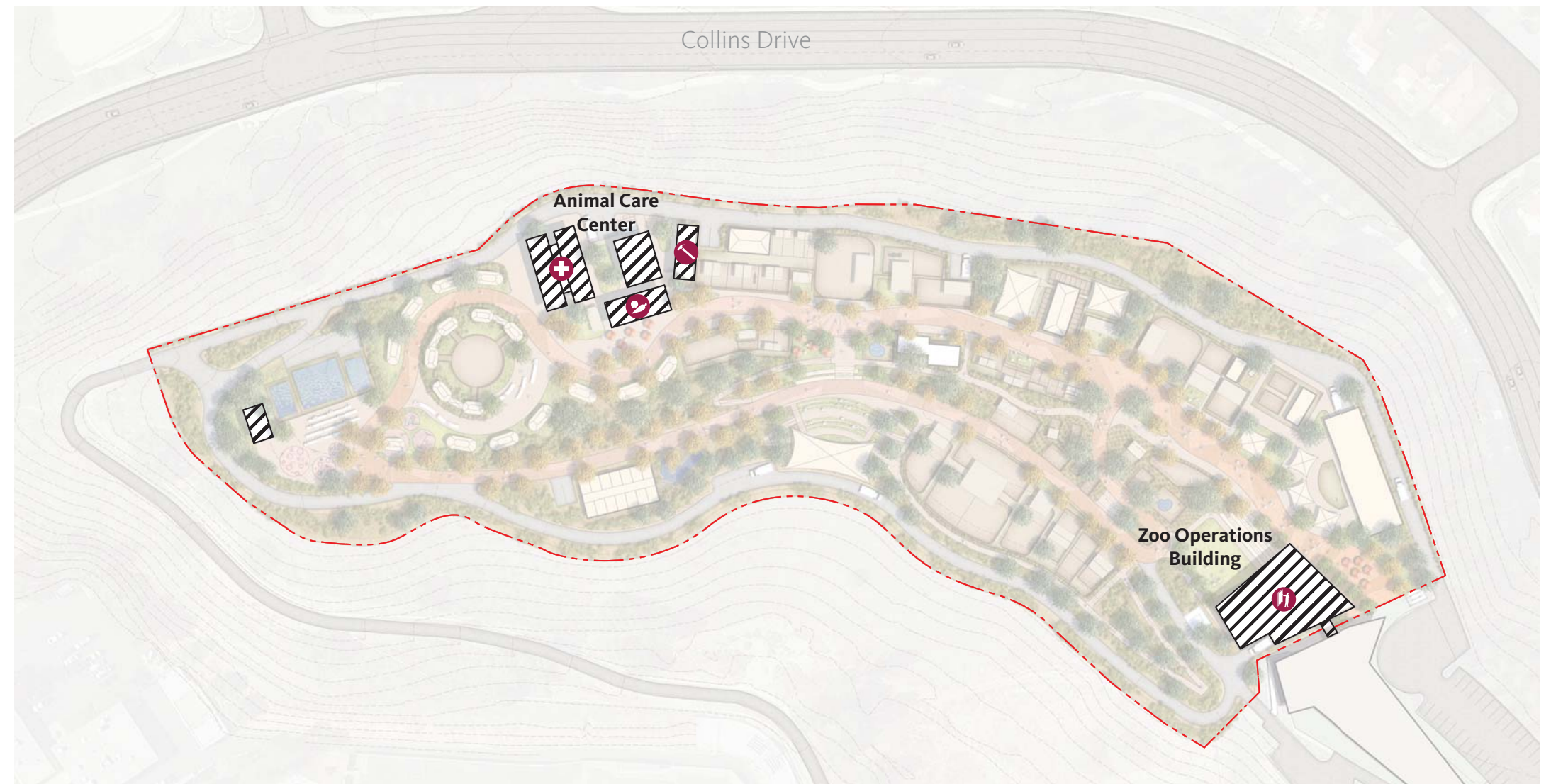
- > Maintain minimum distance between enclosures
- > Incorporate sustainable and easy to clean materials
- > Maintain proper drainage and capture of water run-off
- > Provide rain, heat and cold-weather protection as needed
- > Incorporate secure storage areas for necessary materials





Conceptual Plan



8.8 Building Design Guidelines

Concept Plan



Facility Type	Use	Key Elements	Sustainability
 <h2>Zoo Operations Building</h2>	<ul style="list-style-type: none"> > Welcome Center > Zoo Operations Offices > Learning Labs / Meeting Space > Event Facility / Catering Kitchen > Gift Shop / Snack shop > Restrooms / Student Lockers 	<ul style="list-style-type: none"> > Establish a comprehensive campus-wide aesthetic compatible with existing EATM building > Locate entrances along visual and physical axes > Preserve views to the south > Create a welcoming environment for students and visitors > Maximize functionality for staff and students > Support student learning 	<ul style="list-style-type: none"> > Incorporate solar panels > Incorporate low water usage fixtures > Provide natural light > Utilize LED lighting, where appropriate > Utilize natural / recycled materials > Incorporate shade / passive cooling > Incorporate natural ventilation
   <h2>Animal Care Center</h2>	<ul style="list-style-type: none"> > Veterinary Center > Animal Kitchen (Commissary) > Off-Exhibit Housing (Animal Maintenance) > Workshop and Storage Area 	<ul style="list-style-type: none"> > Provide transparency for visitor viewing, where appropriate > Create a safe and secure facility > Prioritize animal care > Adhere to required codes and regulations 	<ul style="list-style-type: none"> > Incorporate solar panels > Incorporate low water usage fixtures > Provide natural light > Utilize LED lighting, where appropriate > Utilize natural / recycled materials > Incorporate shade / passive cooling > Incorporate natural ventilation

Buildings

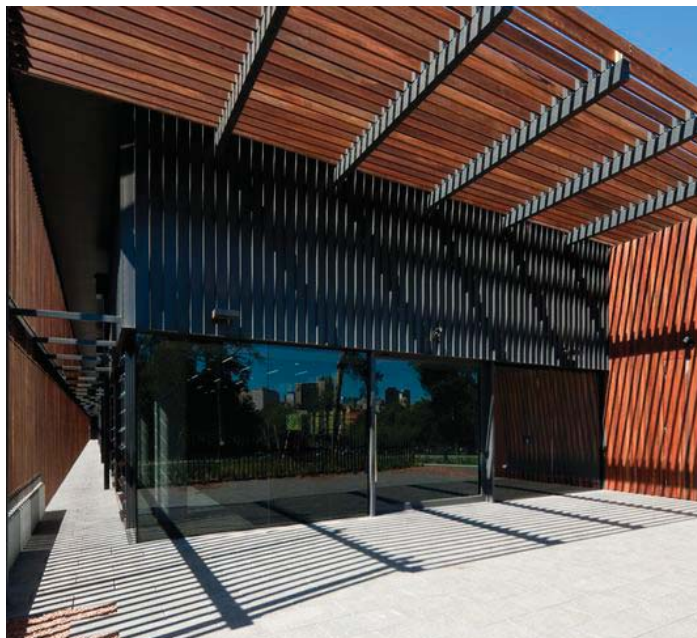
Precedent Images



Existing EATM Building
America's Teaching Zoo - Moorpark, CA



Zoo Snack Shop
Central Park Zoo - New York City, NY



Shade Structure
Adelaide Zoo - Adelaide, Australia



Glass Walls - to preserve views
Adelaide Zoo - Adelaide, Australia

Detailed Guidelines

Zoo Operations Building

The Zoo Operations Building is a two-level academic and administration building housing student support services, learning labs and visitor amenities. It will connect to the existing EATM Building.

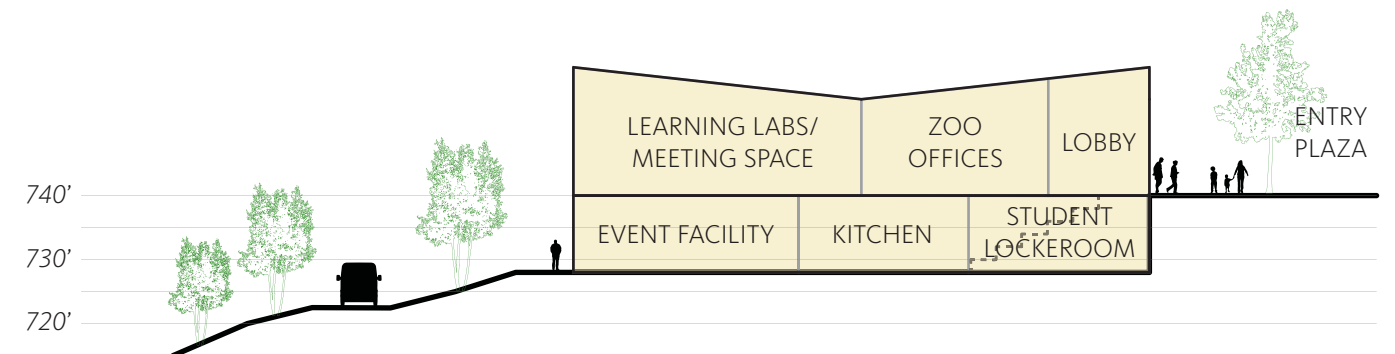
Design Priorities

- > Create a welcoming environment for students and visitors
- > Provide multi-functional spaces / flexible space
- > Create an iconic structure at zoo entry
- > Support zoo staff and student learning
- > Incorporate visitor amenities
- > Provide revenue-generating opportunities

Design Specifications

- > Maintain twenty (20) foot setback from existing building overhang
- > Minimize impact on existing underground utilities
- > Create lower-level event facility open to outdoor event lawn
- > Incorporate sustainable design throughout, such as passive cooling, natural ventilation, natural light, water-saving fixtures and energy-efficient lighting

Conceptual Building Section



Scale 1" = 30'-0" @ 11"x17"
0' 15' 30'

Buildings

Precedent Images



Animal kitchen viewing area
Santa Barbara Zoo, Santa Barbara, CA



Preparation area in commissary



Veterinary Center
Oregon Zoo -Portland, OR



Existing Veterinary Center
America's Teaching Zoo - Moorpark, CA

Detailed Guidelines

+ Animal Care Center

Multiple-building compound comprised of Veterinary Center, Animal Kitchen (Commissary), Off-Exhibit Animal Housing (Animal Maintenance) and Workshop.

Design Priorities

- > Create a functional and secure facility
- > Prioritize animal welfare and student learning
- > Provide opportunities for visitors to view animal care activities

Design Specifications

- > Organize buildings around a central open space
- > Incorporate viewing windows at appropriate locations
- > Adhere to relevant codes and regulations
- > Buffer noise-sensitive uses, such as the Veterinary Center, from the Workshop area.
- > Accommodate changes in technology and equipment needs
- > Incorporate service access / loading dock
- > Incorporate sustainable design throughout, such as passive cooling, natural ventilation, natural light, water-saving fixtures and energy-efficient lighting



The Wilson Family
Carnivore Habitat
African Lions

America's Teaching Zoo
Hillside Theater

Donated by:
The Fishman Family
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9.0 PHASING & IMPLEMENTATION

9.1 Phase 1

Phase 1A

Phase 1B

Phase 1C

9.2 Phase 2

Phase 2A

Phase 2B

Phase 2C

9.3 Phase 3

Phase 3A

Phase 3B

Phase 3C

9.4 Phase 4

Phase 4

9.1 Phase 1

Phase 1A

- New Carnivore Habitat, Hillside Theater and Quarantine Area developed
- Lower level loop path and service road added
- Existing Quarantine Area becomes swing space
- Existing Carnivore Facility and Small Theater demolished

Phase 1B





- New Zoo Operations Building and Event Lawn developed
- New California Habitat exhibit developed
- Existing Birds of Prey Mews, Aviary and Zoo 2 demolished


Phase 1C

- Existing theater renovated
- New Picnic Area developed



Fig 9.1
Phase 1A

-  Buildings
-  Other Structures
-  Animal Enclosures
-  Zoo Perimeter

N  Scale 1" = 100'-0" @ 11"x17"

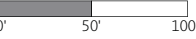












Fig 9.2
Phase 1B

-  Buildings
-  Other Structures
-  Animal Enclosures
-  Zoo Perimeter

N
Scale 1" = 100'-0" @ 11"x17"
0' 50' 100'



Fig 9.3
Phase 1C

-  Buildings
-  Other Structures
-  Animal Enclosures
-  Zoo Perimeter

N
Scale 1" = 100'-0" @ 11"x17"
0' 50' 100'

9.2 Phase 2

Phase 2A

- New Domestic Hoofstock Facility and Central Plaza developed
- Existing Domestic Hoofstock enclosures and Animal Maintenance enclosures demolished

Phase 2B





- New Animal Maintenance Facility, Commissary and Workshop Area developed
- New Turtles and Tortoises Habitat and Central Park developed
- Existing Primate Gardens expanded
- Existing Animal Maintenance enclosures and Commissary demolished


Phase 2C

- New Veterinary Center developed
- New Primate enclosures and Primate Viewing Area developed
- Existing Veterinary Center demolished



Fig 9.4
Phase 2A

-  Buildings
-  Other Structures
-  Animal Enclosures
-  Zoo Perimeter

N  Scale 1" = 100'-0" @ 11"x17"

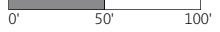




Fig 9.5
Phase 2B

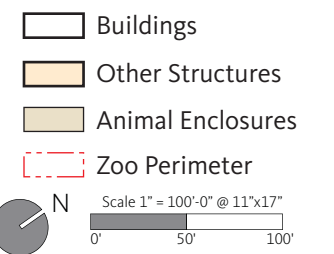








Fig 9.6
Phase 2C

-  Buildings
-  Other Structures
-  Animal Enclosures
-  Zoo Perimeter

N
Scale 1" = 100'-0" @ 11"x17"
0' 50' 100'

9.3 Phase 3

Phase 3A

- New Avian Facility developed
- Existing Parrot Gardens demolished

Phase 3B





- New Small Mammal Facility, Reptile House and Alligator Habitat developed
- Existing Show Animal Facility and Zoo 1 demolished

Phase 3C

- New Exotic Hoofstock Facility developed



Fig 9.7
Phase 3A

-  Buildings
-  Other Structures
-  Animal Enclosures
-  Zoo Perimeter

N
Scale 1" = 100'-0" @ 11"x17"
0' 50' 100'



Fig 9.8
Phase 3B





- Buildings
- Other Structures
- Animal Enclosures
- Zoo Perimeter


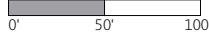
N Scale 1" = 100'-0" @ 11"x17"

0' 50' 100'



Fig 9.9
Phase 3C

-  Buildings
-  Other Structures
-  Animal Enclosures
-  Zoo Perimeter

 N Scale 1" = 100'-0" @ 11"x17"






9.4 Phase 4


Phase 4

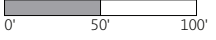
- New Marine Mammal Facility and Water Play Area developed



Fig 9.10
Phase 4

-  Buildings
-  Other Structures
-  Animal Enclosures
-  Zoo Perimeter

 N Scale 1" = 100'-0" @ 11"x17"

 0' 50' 100'