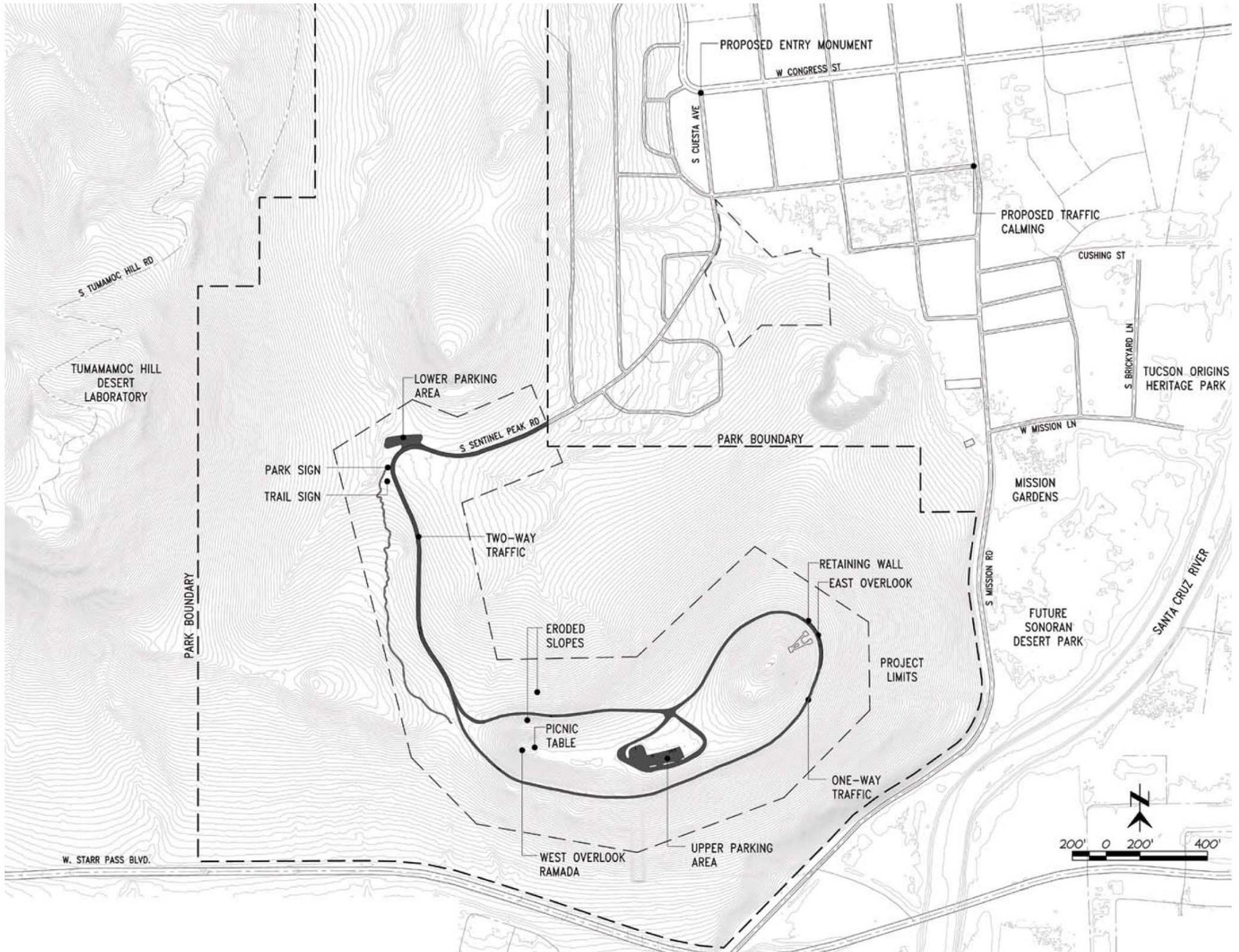




SENTINEL PEAK PARK



BACKGROUND





PUBLIC INPUT

TRANSPORTATION LINKAGES

Bus Routes

The Suntran bus route is on Congress St. and there is a stop 400 feet east of the intersection of Congress Street and La Cuesta Ave. It is .63 miles to the lower parking lot from this intersection, and 1.2 miles to the upper parking lot. There is currently no bus access to the Park.

Bicycle Routes

The bicycle route on Congress is designated as a bike route with striped shoulder, Sentinel Peak is designated as paved shoulder only.



Figure 4: Bus Routes

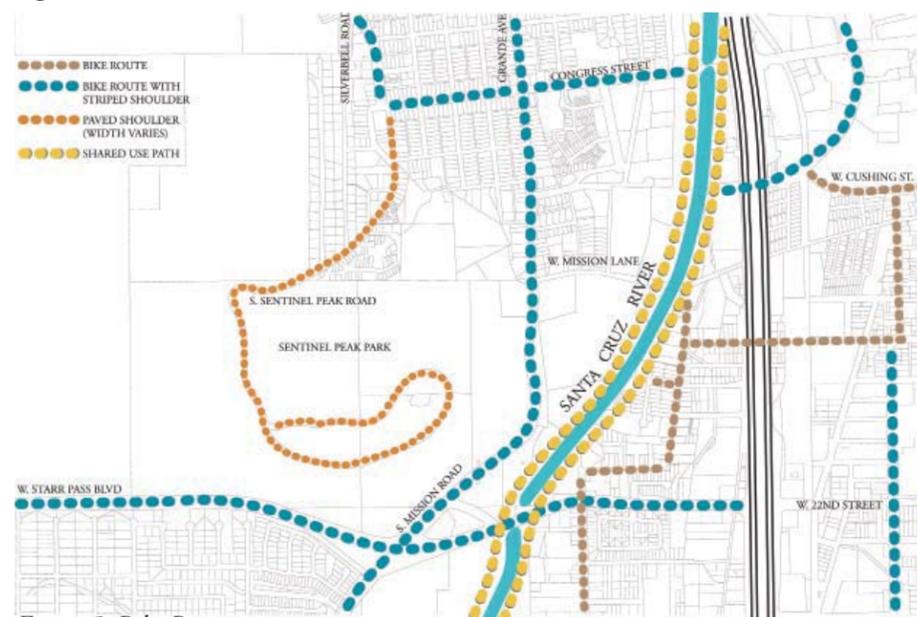


Figure 5: Bike Routes

Pedestrian

A pedestrian crossing has been proposed at Cushing Street and the Santa Cruz River as part of the Rio Nuevo development; this will give pedestrian access from downtown to the proposed Convento Museum site and the Mission Gardens. The Streetcar may also extend from Downtown to Tucson Origins Heritage Park.

Sentinel Peak Park is approximately 1 mile west of the Santa Cruz River Park, which affords extensive north-south linkages. It is possible to link the Santa Cruz River Park shared-use path with the trail system of Sentinel Peak. Pedestrian access may also be feasible in the future with a pedestrian crossing on Mission Road west of the Barrio Sin Nombre neighborhood.

PLAN DEVELOPMENT CHRONOLOGY

The master plan was developed from input from the charettes, open houses and site analysis by the design team.

- July 28, 2007 A Mountain (Sentinel Peak) Charette I
- September 29, 2007 A Mountain Charette II
- March 17, 2008 Focus Group Meeting
- May 17, 2008 On-Site Meeting
- July 16, 2008 Focus Group Meeting
- October 27, 2008 Open House
- October to November, 2008 Public Comment Period
- March 19, 2009 Public Presentation Open House
- April 2009 Master Plan Report
- Summer 2009 Archaeology Assessment
- Fall 2009 SWCC Trail Building
- Summer 2010 Phase 1 Construction Documents
- Fall 2012 Begin Phase 1 Construction

CHARETTE SUMMARY

The first charette was held in July 2007, The comments from the community were grouped into general categories as summarized below:

Environmental Conditions

Context

- Plan for Wildlife Corridors
- Provide connections between Santa Cruz River and Tucson Mountain Park

Erosion & Drainage

- Address erosion problems on Sentinel Peak Road
- Repair damaged native vegetation, social trails
- Address drainage on north slope
- Incorporate check dams, water detention features

Vegetation

- Remove invasive plant species
- Plant native shade trees
- Incorporate water harvesting
- Plant several trees in the core-area of the park and use the parking lot to harvest rainwater for the irrigation of these new plantings.

Goals

Mitigate existing environmental damage and minimize impact of future development



Erosion on north face of Sentinel Peak
Photo: WSA, 2008



Approach to Sentinel Peak Park
Photo: WSA, 2008

Circulation & Signage

- Entry and directional signage lacking
- Issues regarding frequency, consistency of signage directing people to Sentinel Peak Park. Discourage traffic from entering neighborhood.
- Identify South Cuesta Ave as the public entrance to the park.
- Entry signage and hours of operation clearly posted before reaching gate.

Vehicular Circulation

- Address dangerous intersections and unsafe areas of the access road
- Assess parking needs (consider shuttle for special events)

CHARETTE SUMMARY

Pedestrian and Bicycle Circulation

- Plan to reduce conflicts with vehicles and pedestrians
- ADA access

Trails

- Improve hiking trails
- Revegetate redundant social trails
- Include a trail from the parking lot to the top of Sentinel Peak

Goals

Improve safety and ease of circulation.

Safety & Maintenance

- Address vandalism
- Improve safety
- Need trash removal
- Add guardrails on the north side of loop drive west of the upper parking lot entrance. Guardrails should be designed to be unobtrusive and blend with the natural landscape as much as possible
- Traffic calming measures -(speed tables, designated pedestrian crossings)
- Closure Times (good location to see sunset)
- Volunteer Programs
- Neighborhood Integrity
- Encourage people to help in the cleanup of Sentinel Peak Park by providing recycle containers, a dispenser for trash bags if people want to pickup trash, and a dog waste cleanup bag dispenser.

Goals

Encourage legitimate use through positive design and active programming.



Existing Upper Parking Lot
Photo: WSA, 2008



Graffiti
Photo: WSA, 2009

Site Amenities

- Shade Trees
- Picnic Tables
- Seating
- Overlooks
- Ramadas
- Restroom facilities
- Recycle & Trash Containers
- Bike Racks
- Consider a solar powered composting toilet.
- Improve the existing “Sentinel” overlook (the rock gazebo-like structure west of the parking lot)
- Provide improved (ADA) access to the existing “Sentinel” overlook.
- Remove or improve the unsafe picnic tables near the “Sentinel” overlook.

Goals

Provide adequate site amenities to increase user comfort and ease of use

Park Programming

- Existing Events
- Interpretative Programming

Historic & Site Interpretation

- History, timeline & significance
- Culture, geography, geology, ecology
- Media for site interpretation
- Develop an interpretive plan and provide unobtrusive signs to interpret the past and present cultural uses, natural history, and views from the mountain.
- Public Art

Goals

Provide site interpretation.



Existing Trail Sign
Photo: WSA, 2008



Picnic Table
Photo: www.flickr.com/Sentinel Peak

OPEN HOUSE AND SURVEY RESPONSES

Surveys were distributed at the Open House for feedback on the proposed improvements to Sentinel Peak. The surveys were also available on-line the month of November. A summary of the Survey results are shown here; complete survey results will be included in the Master Report.

- 66 people filled in the survey
- 38% of respondents live near Sentinel Peak Park
- 23% reported visiting the park yearly
- 15% reported visiting monthly and 15% weekly

An opening question of the survey asked people what they see as barriers to their use of the park now. 37 of 66 people wrote in a response. The responses fell into the following categories (some people had multiple issues):

Traffic conflicts with pedestrians	13
Unsafe Environment	8
Cyclist Safety	4
Vandalism and Trash	4
Closure Times	3
No Shade	2
Entry and Signage	2
Child Safety	2
Accessibility	2
Not much to do	2

Crowding at overlook	2
Parked cars blocking view	2
Too narrow roadway	2
Pollution from vehicles	1
Noise (music from parked vehicles)	1
Poor aesthetics	1
Restroom, water	1
Total	52

Asked if they thought the park was currently child-friendly on a scale of 1 (un-friendly) to 5 (friendly), the average response was 1.9

Sample answers:

- Too much traffic, not pedestrian safe
- Reckless traffic, dangerous roadway
- As a walker, I'm worried I'll be run over by a car, or bike
- Would like better bike paths on road
- Unsafe environment
- Other than the view and the 'round' structure not much else on the peak

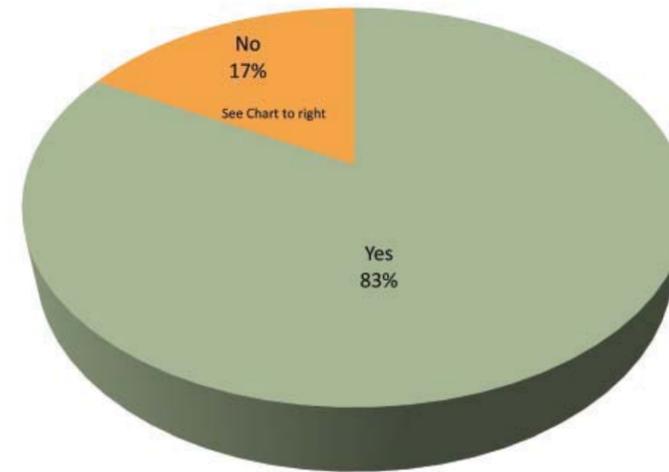


Chart 4 Would you use the park more with the proposed Phase 1 Improvements and/or with the Master Plan?

- No parking. No accessibility for wheelchairs. Too many cars parked in the road blocking the view. Security issues.
- Overcrowded, views blocked by parked cars. Lack of assessable trail, cycling unfriendly
- Fast cars, hot sun
- Narrowness and poor condition of the road
- No water, signs, restrooms

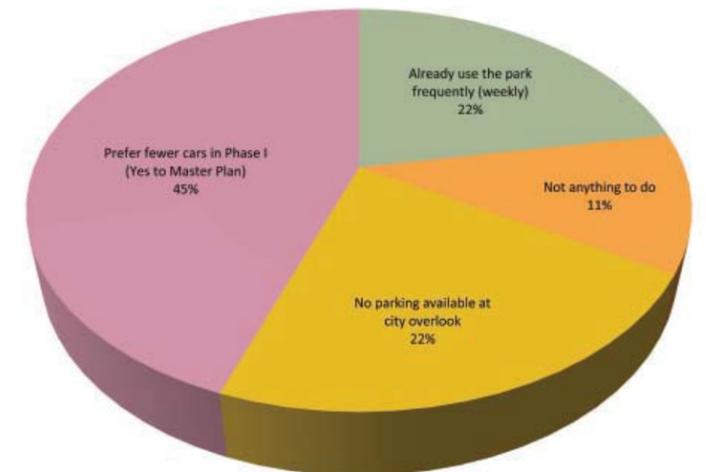


Chart 5 Analysis of the No Responses

Conclusions

In conclusion, the survey responses supported the proposed Master Plan. Responses indicated strong support for a pedestrian oriented park with an emphasis on habitat restoration, improved amenities, and increased safety.

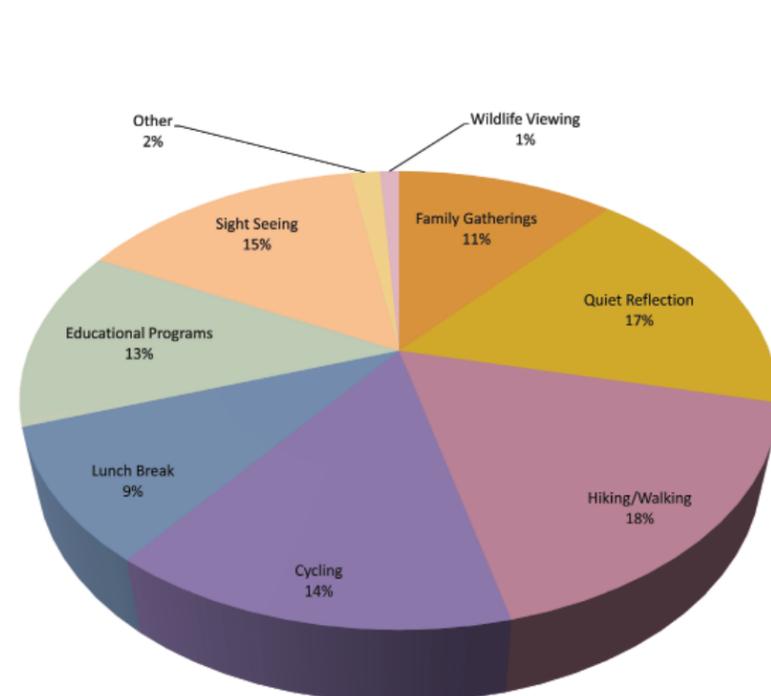


Chart 1 What Activities are most important to you?

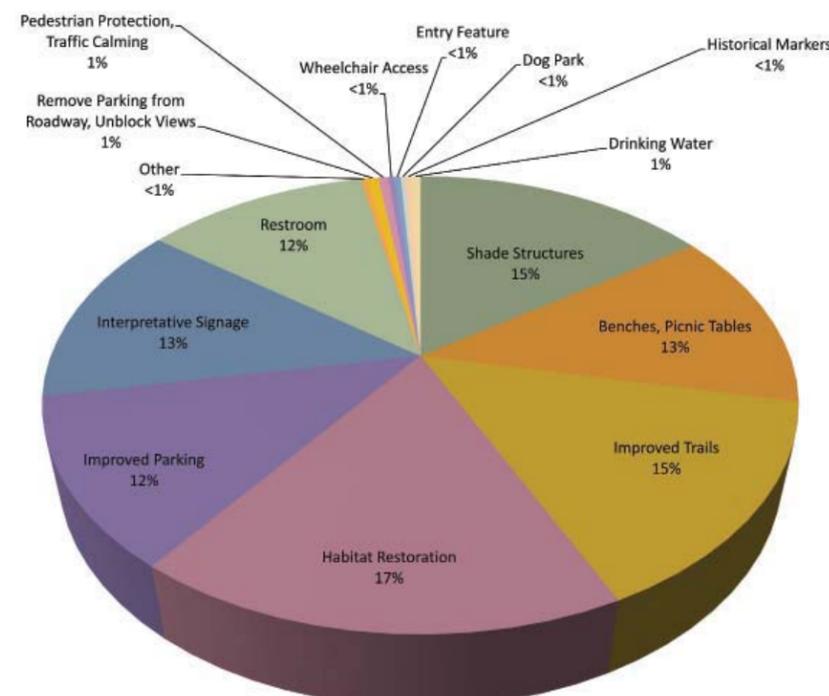


Chart 2 What amenities are most important to you?

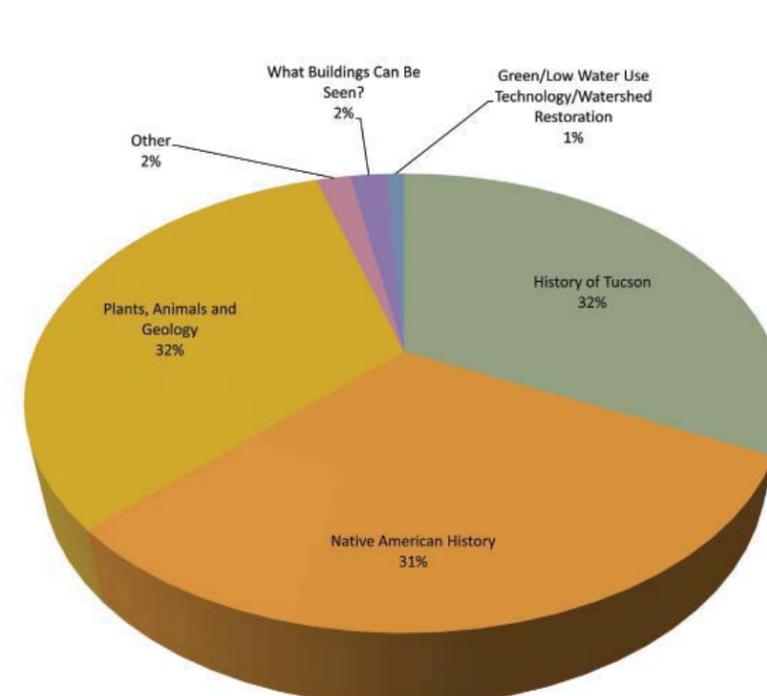


Chart 3 What Interpretative Sign Themes appeal to you most?

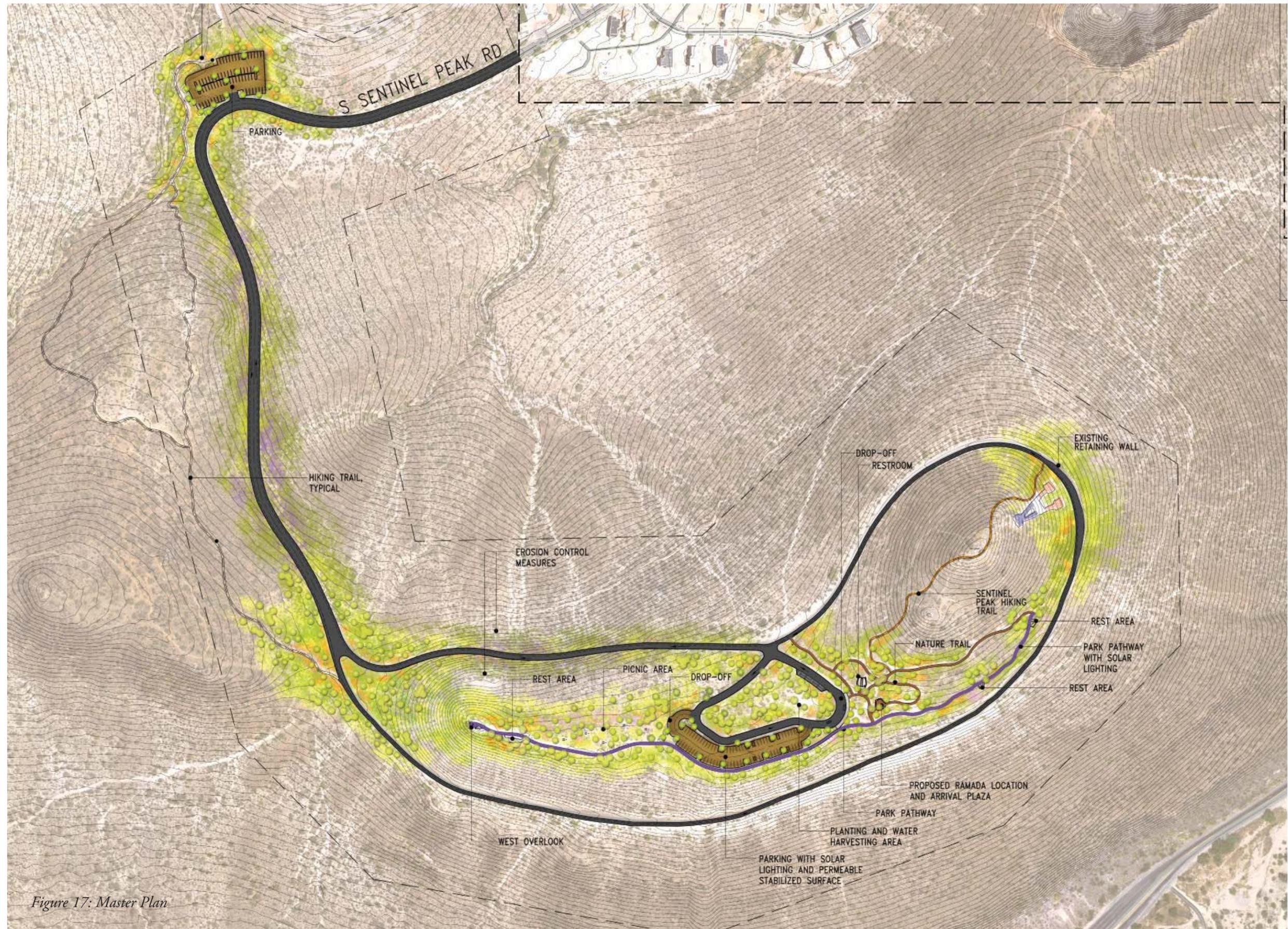


Figure 17: Master Plan





PHASE 1 IMPROVEMENTS



WHEAT SCHARF ASSOCIATES
 LANDSCAPE ARCHITECTURE - RESURFACE PLANNING - URBAN DESIGN
 445 NORTH 56TH AVENUE TUCSON, AZ 85705
 PHONE: 520-964-7911 FAX: 520-964-7912



City of Tucson
 Parks and Recreation

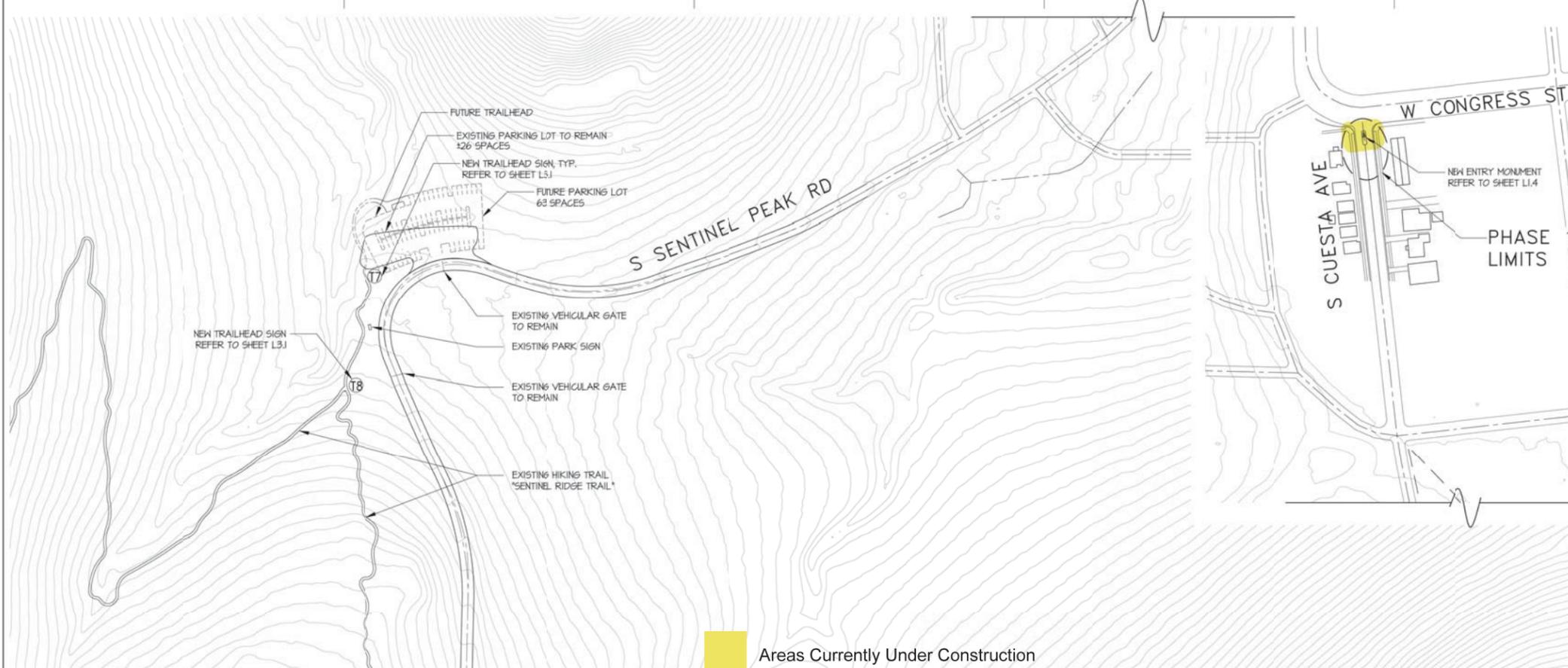


Project NO.

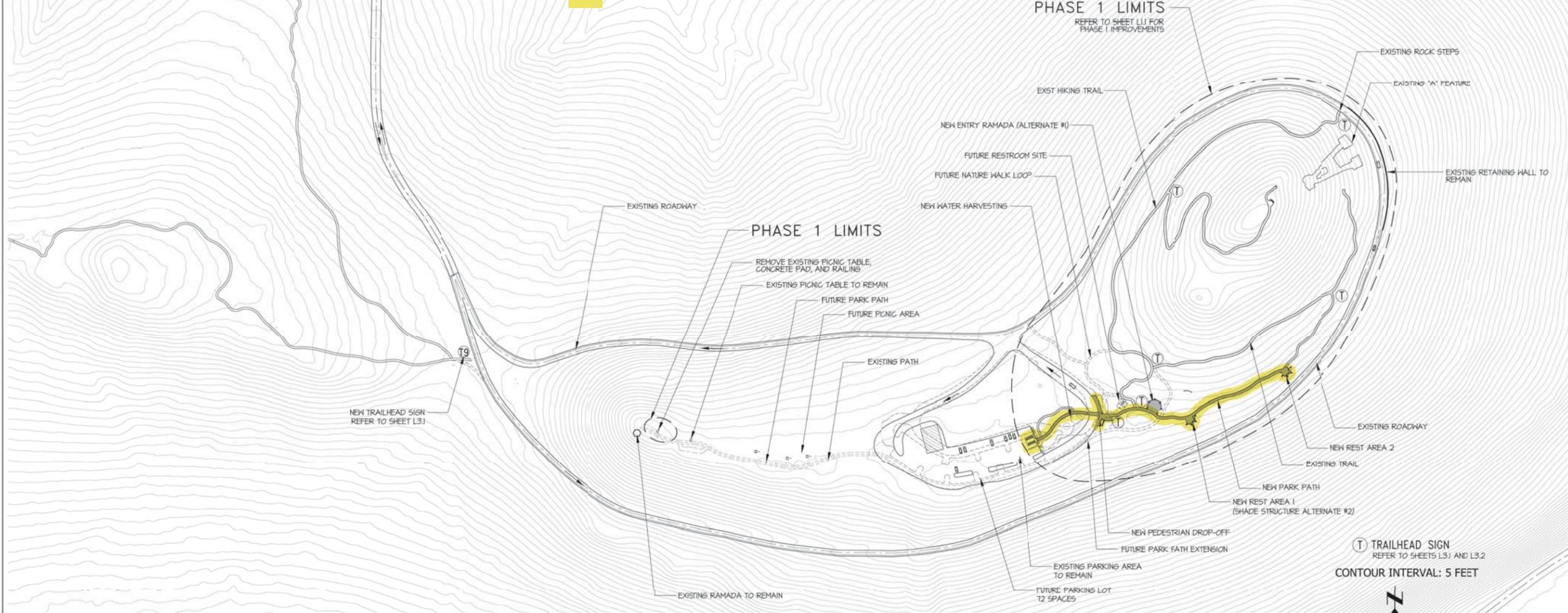
This site is subject to the following Overlay Zone Vegetation Retention criteria:

CITY OF TUCSON DEVELOPMENT STANDARD NO. 9-01.0
 HILLSIDE DEVELOPMENT SITE IMPROVEMENT

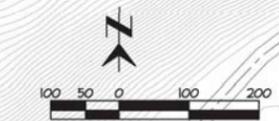
- A. Vegetation Retention.**
- Existing trees with four (4) inch or greater trunk diameter and cacti will be preserved in their original locations, except for building sites and access and utilities serving building sites.
 - When retention of the above trees and cacti in their original locations is not possible due to building site location, the trees and cacti will be salvaged and replanted in areas requiring re-vegetation, whenever possible.
- B. Re-vegetation.** All cut or fill slopes, which are no steeper than three (3:1) and all utility trenches or septic leaching fields which are not located in parking or driveway areas will be re-vegetated in compliance with the following requirements.
- All plants used in re-vegetation must be the same as the native vegetation on the site or any adjacent site prior to grading or clearing.
 - Re-vegetation will be accomplished with the following minimum requirements for plants.
 - Native trees, a minimum of fifteen (15) gallon size with a minimum trunk diameter of two (2) inches measured at the soil level, or large specimen cactus will be placed at the same vegetation density found on the site prior to any clearing, grubbing, or grading.
 - Seeds for trees, desert shrubs, and grasses will be planted with a density adequate to control erosion and may use one of the following methods of planting or any other method approved by the Zoning Review Section at DSD.
 - Raked into the soil with appropriate mulch materials;
 - Hydro-seeding;
 - Anchored mulches; or
 - Established on jute, rolled straw, or similar material.
- C.** A temporary watering system must be installed until the re-vegetation materials is established.
- D.** ~~NEED pre-permit~~ inspection is required prior to grading inspection can be scheduled by calling I/R system and entering inspection code 09015 or calling Landscape Field Representative directly @ 837-4950
- E.** Grubbing, grading, and clearing are to occur only within the areas identified on the grading plan and staked on the site or lot. The limits should include all cut and fill areas, leach fields, septic tanks and future development areas identified
- F.** The portions of the site or lot to be left ungraded are to remain undisturbed and are not to be used for stockpiling of materials or excess fill, construction vehicle access, storage of vehicles during construction, or similar uses.
- G.** Development other than hiking trails will not be permitted within the legally described boundaries of the natural area.



Areas Currently Under Construction



T TRAILHEAD SIGN
 REFER TO SHEETS L3.1 AND L3.2
 CONTOUR INTERVAL: 5 FEET



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REVISIONS

REV. NO.	REV. DATE	DESCRIPTION

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 WSA PROJECT NUMBER

DATE: 08-06-2010
 DRAWN BY: CSM
 CHECKED BY: ES

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
L1.0

Two working days before you dig
 CALL FOR THE BLUESTAKES
 1-800-782-5348
 Blue Stake Center
 CALL COLLECT

SENTINEL PEAK REGIONAL
 NATURAL RESOURCE PARK
 PHASE 1

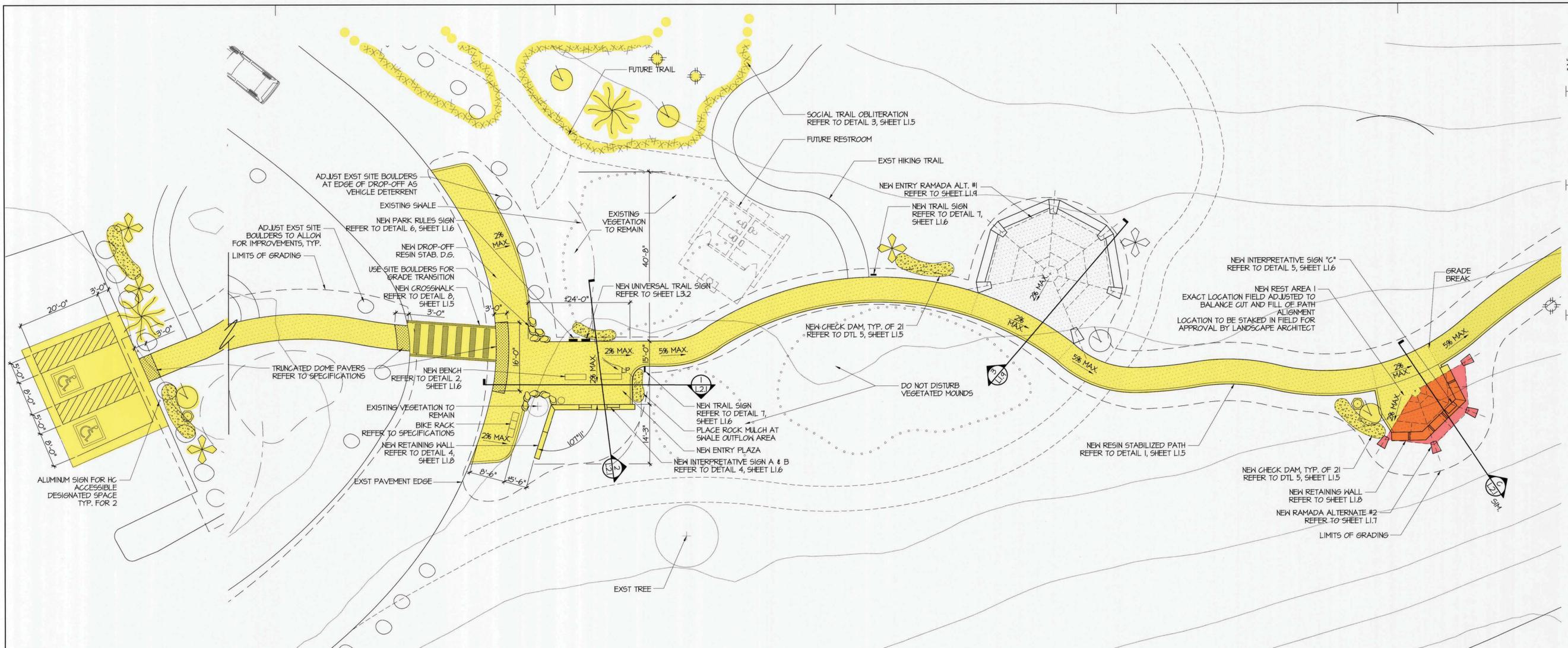


City of Tucson
 Parks and Recreation



Project NO.

SENTINEL PEAK REGIONAL PARK
 NATURAL RESOURCE PLAN
 PHASE 1



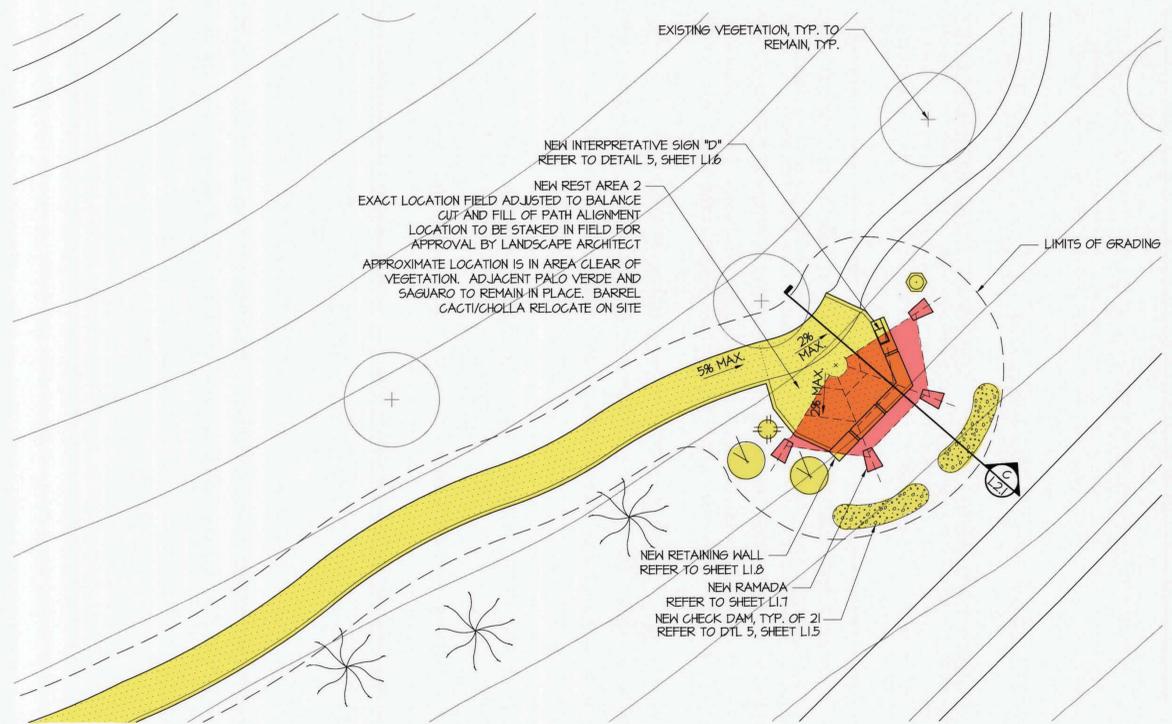
- Path, Plaza, and Landscaping Improvements Currently Under Construction
- Shade Ramadas Currently Under Construction

PLANT SCHEDULE

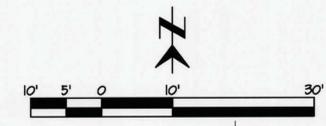
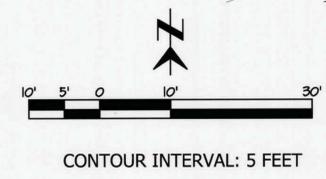
SYMBOL	BOTANICAL NAME COMMON NAME	MIN. HEIGHT	MIN. SIZE	QTY
	<i>Carnegiea gigantea</i> Saguaro	3'-5'	n/a	10
	<i>Ferocactus wislizenii</i> Fishhook Barrel	8"	3 gal	20
	<i>Fouquieria splendens</i> Ocotillo	4'	5 gal	25
	<i>Larrea tridentata</i> Creosote	2'-6"	5 gal	20
	<i>Opuntia engelmannii</i> Engelmann's Prickly Pear	n/a	3 pads	20

NOTES:
 1. Acceptable sources of plant material: Salvaged on site, salvaged material from Tucson Cactus and Succulent Society, and/or seed grown nursery stock.
 2. Contractor shall provide plant quantities shown. Some plants will be field located and planting location is not shown on plans.

3 ENLARGED PLAN - ENTRY PLAZA AND REST AREA 1



2 ENLARGED PLAN - REST AREA 2



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REVISIONS
 REV. NO. REV. DATE DESCRIPTION

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WSA PROJECT NUMBER

DATE 08-06-2010

DRAWN BY: COM

CHECKED BY: ES

SHEET TITLE

ENLARGED PLANS

SHEET NUMBER

L1.3

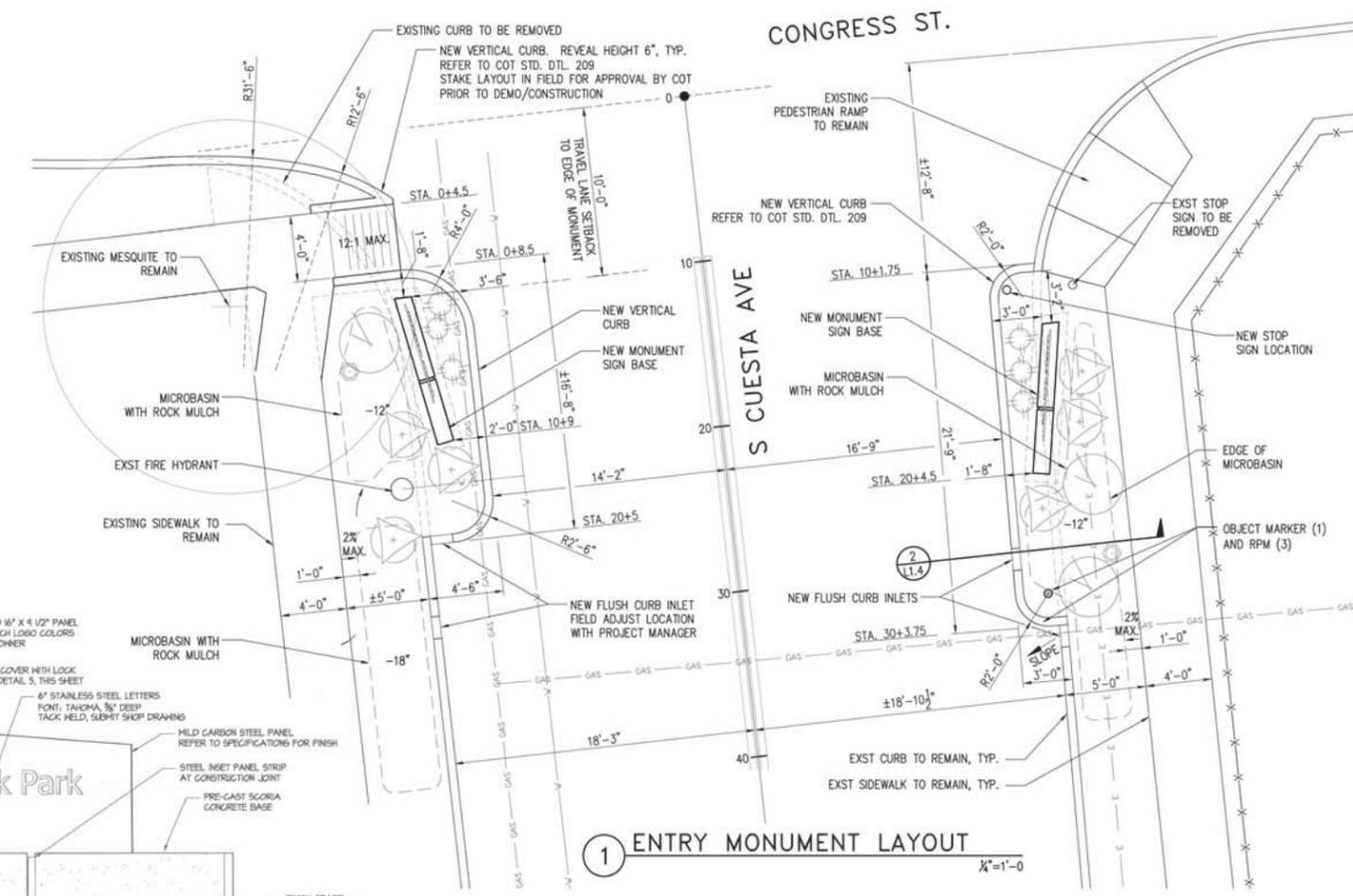


City of Tucson
 Parks and Recreation



Project NO.

SENTINEL PEAK REGIONAL
 NATURAL RESOURCE PARK
 PHASE 1



1 ENTRY MONUMENT LAYOUT
 1/4"=1'-0"

PLANT SCHEDULE

SYMBOL	BOTANICAL NAME COMMON NAME
	Agave palmeri Palmer's Agave
	Carnegiea gigantea Saguaro
	Ferocactus wislizenii Fishhook Barrel
	Larrea tridentata Creosote

NOTES:

Refer to Curb Access Ramp PC/COT Standard Detail 207 (alternatives). Curb at west pedestrian ramp returns with no side flare.

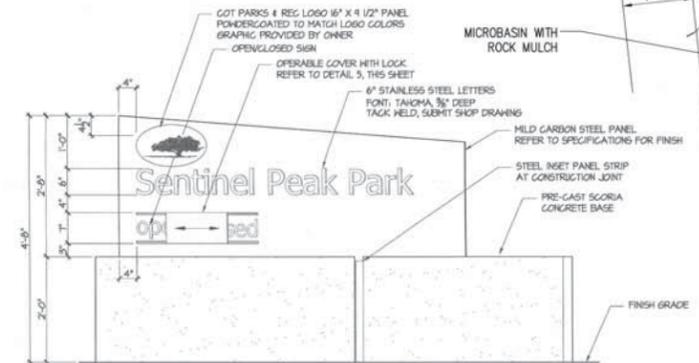
Plan shown estimated from aerial photo and field measurements. Contractor to verify dimensions and field adjust.

STOP SIGN:
 The contractor shall install a New 30"x30" STOP sign, and shall return the existing sign to the Sign Shop at 4004 S. Park Ave (Kelly Nanez 791-3154).

The STOP sign shall be mounted so that the distance from grade to the bottom of the sign is 7 ft. The contractor shall refer to Sheet 8-2 of the City of Tucson/Pima County Signing Manual for sign post and foundation details.

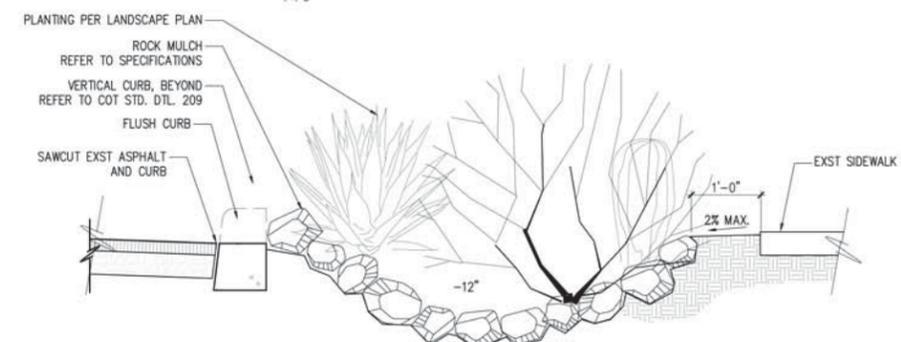
Contractor shall properly Bluestake the new sign installation and existing sign post removal. Contractor shall contact Traffic Engineering (Diahn Swartz 791-4259) for assistance locating the new sign.

OBJECT MARKER:
 Contractor to install Object Marker (2) and RPM (3) per direction of COT Traffic Engineering at the NB chicane. Refer to Object Marker Detail below.

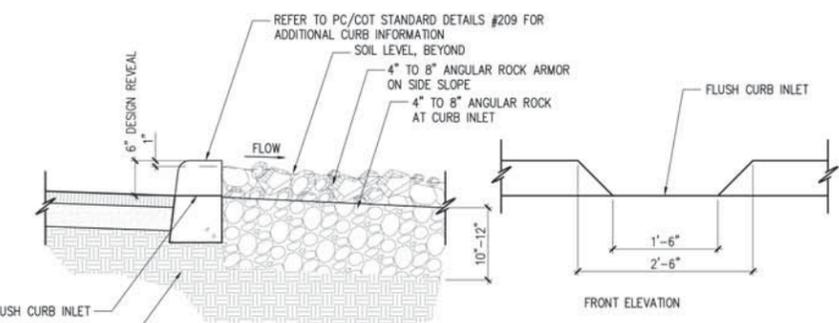


WEST ELEVATION

ENTRY MONUMENT ELEVATION
 1/4"=1'-0"

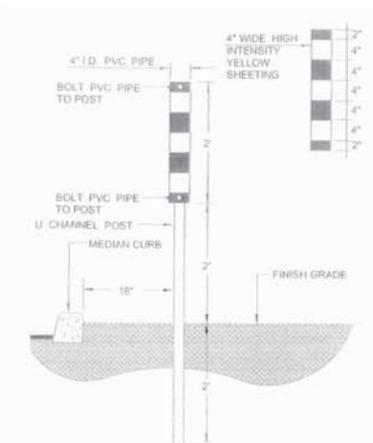


2 LANDSCAPE SECTION
 1"=1'-0"



- NOTES:
- ROCK RIP RAP SHALL BE PLACED 1/2" BELOW CURB CUT INVERT ELEVATION.
 - DEPTH OF ROCK RIP RAP AT BOTTOM OF CURB SHALL BE 10" - 12".
 - ROCK RIP RAP AT TOP OF CURB SHALL BE 1" BELOW TOP OF CURB.

3 FLUSH CURB INLET
 1"=1'-0"



OBJECT MARKER

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DATE: 09-06-2010
 REV: 01-10-2013
 DRAWN BY: CDM
 CHECKED BY: ES

SHEET TITLE
 ENTRY
 MONUMENT SIGN

SHEET NUMBER

L1.5



WELCOME TO SENTINEL PEAK PARK

SAFETY CHECKLIST

- Wear your seat belt.
- Don't drink and drive.
- Use proper tie-up technique.
- Use proper tie-up technique.
- Use proper tie-up technique.



PARK RULES

- No open containers allowed in the park.
- No smoking or consumption of alcohol in the park.
- No dogs or animals in the park.
- No firearms in the park.
- No hunting in the park.
- No off-highway vehicles in the park.
- No motor vehicles in the park.
- No motor vehicles in the park.
- No motor vehicles in the park.





Tucson, 1880

During the last four decades of the 19th century, Americans introduced the transformation of their former agricultural economy and culture into an industrial society. Tucson began the change on March 1880, when the first train arrived. The construction of the Southern Pacific transportation railroad had both an immediate and lasting impact on the development of Tucson as a city. The railroad brought with it the development of Tucson as a city. The railroad brought with it the development of Tucson as a city. The railroad brought with it the development of Tucson as a city.

The railroad also transported Victorian and English styles from the eastern United States. New architectural styles and land-use patterns were introduced, and an emerging and business-led urban infrastructure community. With its improved transportation to the rest of the United States, and its range in transportation, Tucson was rapidly changing from a small, remote outpost to a bustling urban center.

When photographer Carlisle Walker took his photograph of Tucson in 1880, the Southern Pacific Railroad was newly arrived and had yet to make its full impact on the city. Taken from the east, Walker's photograph captures the essence of Tucson as a frontier town on the edge of becoming an American city. In the foreground, the small Mission Garden, Santa Catalina's agricultural fields, and the Camino Real—the main road leading from the town to the Mission and the Camino Real to the south of the city—are visible. In the background, the Santa Catalina Mountains and the Santa Cruz River are visible. The photograph captures the essence of Tucson as a frontier town on the edge of becoming an American city.

© 1980 Carlisle Walker. All rights reserved. Photo courtesy of the University of Arizona.



Sentinel Peak Park



open



FUTURE PHASE IMPROVEMENTS



Sentinel Peak Park Phase II Improvements – Possible Uses for the requested \$2.5 million in bond funds:

- Tohono O’odham heritage education interpretive panels and benches
- Additional Site interpretations
- Comprehensive Buffelgrass Management Plan
- Comprehensive hiking trail plan, including trail building, trail signage, repair, and decommissioning of wildcat trails
- Construction of a shaded trailhead facility - lower parking lot
- Construction of a shade ramada - upper parking lot trailhead
- Improvements and amenities for pedestrians and cyclists
- Improvements and solar lighting for both the upper and lower parking lots
- Landscape and water-harvesting improvements at both the upper and lower parking lots
- Public art
- Additional Handicap accessible paths and overlooks including a path to the west overlook gazebo
- Restoration of historic (WPA) structures in the park including the overlook gazebo located west of the upper parking lot
- Construction of shaded picnic ramadas
- Mapping of all archaeological and historic sites within the park property
- Identification, mapping, and enhancement of wildlife corridors
- Erosion control along roadway
- Restrooms with composting toilets and solar powered lighting
- Explore Joint projects with Tumamoc Hill
- Possible acquisition of land surrounding the historic rock quarry to incorporate into the park
- Extend a water line into the park to provide drinking water at least at the lower parking lot