

AREA CLOSED

FOR THE PROTECTION
OF ENDANGERED SPECIES

DO NOT ENTER



NATIONAL PARK SERVICE
Title 36 C.F.R. 1.5a



GOGA Tracking No.: GOGA - DC - 2008 - 001
(To be filled out by GOGA Budget & Finance Office)

		COSTS
Description of Service(s)	Initial work on schematic designs and Class C cost estimates for	
(Please attach another sheet if needed)	barriers and/or signage to delineate proposed off leash	
	dogwalking areas for use in preparation of alternatives for the	
	dog management EIS	
	TOTAL NTE	3,000.00

Name of Servicing Park: Golden Gate National Recreation Area

Performance Period: From: 1/9/2008 To: 3/1/2008

NTE Amount: \$ 3,000.00 Budget Fiscal Year: FY2008

GOGA Account Number: 8145-8802-SZM Fund must obligated by: 9/21/2008

GOGA Project Manager
Name Shirwin Smith
Telephone 415-561-4947
Fax 415-561-4710

Project Manager (servicing park)
Name Joe Crystal
Telephone 303-969-2494
Fax 303-969-2238

GOGA Budget/Account POC
Name Lily Chan
Telephone 415-561-4761
Fax 415-561-4710

Budget POC (servicing park)
Name Tom Knapp
Telephone 303-969-2102
Fax 303-987-6658

Shirwin Smith 01/09/08
Name Signature Date
Approved by (GOGA Account Manager)

Name Signature Date
Approved by (GOGA Budget/Account POC)

Name Signature Date
Approved by (GOGA Budget & Finance Office)

GOGA Tracking No.: GOGA 2007 DC - 001
 (To be filled out by GOGA Budget & Finance Office)

Description of Service(s)	COSTS
Field work at GOGA to assess options for barrier designs	_____
and/or signage for Dog Management EIS alternatives that will	_____
include options for off leash dogwalking in preparation for	_____
provision of schematic designs and Class C cost estimates.	_____
TOTAL NTE	<u>4,300.00</u>

Name of Servicing Park: Golden Gate National Recreation Area

Performance Period: From: 09/04/07 To: 09/07/07

NTE Amount: \$ 4,300.00 Budget Fiscal Year: FY07

GOGA Account Number: 8145-8702-SZM Fund must obligated by: 09/20/07

GOGA Project Manager

Name Shirwin Smith
 Telephone 415-561-4947
 Fax 415-561-4710

Project Manager (servicing park)

Name Joe Crystal
 Telephone 303-969-2494
 Fax 303-969-2238

GOGA Budget/Account POC

Name Lily Chan
 Telephone 415-561-4761
 Fax 415-561-4710

Budget POC (servicing park)

Name Tom Knapp
 Telephone 303-969-2102
 Fax 303-987-6658

Shirwin Smith

Name

Signature

08/23/07

Date

Approved by (GOGA Account Manager)

Name

Signature

Date

Approved by (GOGA Budget/Account POC)

Name

Signature

Date

Approved by (GOGA Budget & Finance Office)



Dog Management Study – Landscape Treatments

Golden Gate National Recreation area

November 2007 DRAFT

Introduction

(b) (5)

[Redacted]



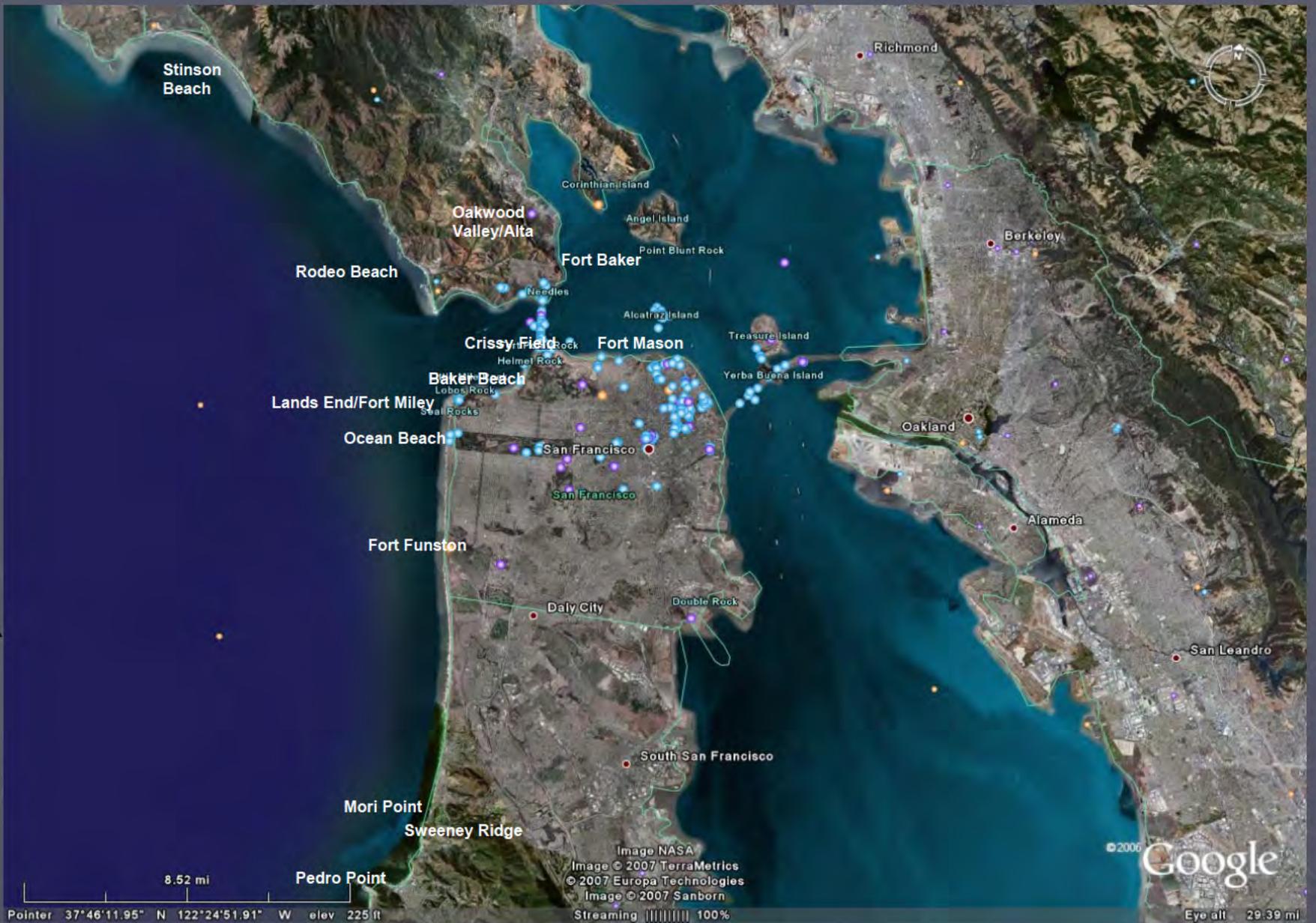
(b) (5)

[Redacted]

Table of Contents

▶ Introduction	2
▶ Park Overview - GOGA Sites	4
▪ Mori Point	5
▪ Sweeny Ridge/Baquiano Trail/Cattle Hill	7
▪ Pedro Point	12
▪ Stinson Beach	14
▪ Fort Baker	16
▪ Oakwood Valley/Alta Avenue	18
▪ Rodeo Beach	22
▪ Fort Mason	25
▪ Baker Beach W. Lobos Creek	28
▪ Lands End & Fort Miley	30
▪ Crissy Field	35
▪ Fort Funston	39
▪ Ocean Beach	42
▶ Appendix – Palette of Landscape Treatments	44
▶ Class C Cost Estimate	





Overview – Park Sites Studied

Mori Point



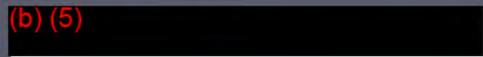
Issues

(b) (5)

[Redacted text block]

Mori Point

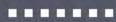
(b) (5)



Shrub Massing



Existing Trail



Battlefield Fencing



Baquiano Trail - Sweeny Ridge

Issues

The Nike site is a collection of structures, some showing considerable deterioration with numerous safety problems. Park maintenance materials are also periodically stored out in the open.

Public access to the water tower could be problematic due to safety reasons.

The Portola Discovery site has been severely impacted by pedestrian and vehicular use.

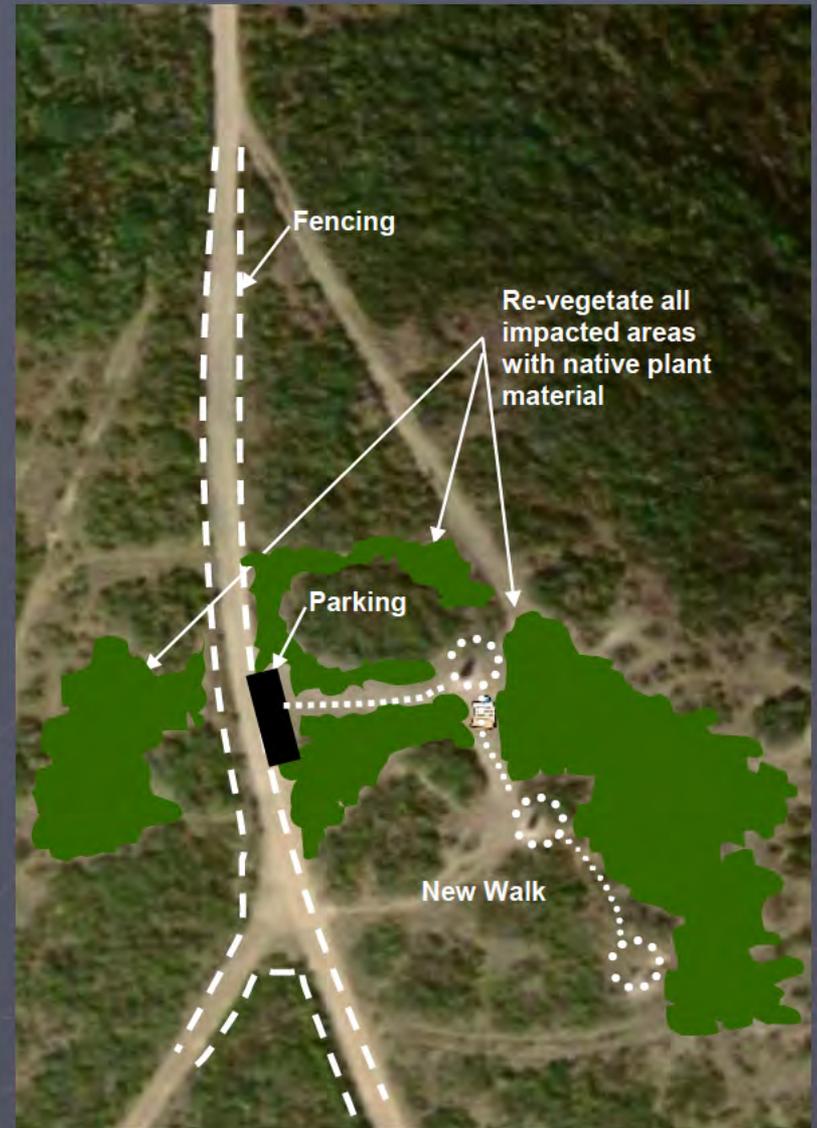


(b) (5)

Baquiano Trail - Sweeny Ridge

Recommendations

(b) (5)



Baquiano Trail - Sweeny Ridge



Re-vegetation of impacted areas once mature should achieve a thick road side barrier.



(b) (5)



Typical gate styles that would be appropriate in this application.

Baquiano Trail – Cattle Hill



Wood Fencing

Recommendations

(b) (5)

[Redacted]

[Redacted]

[Redacted]

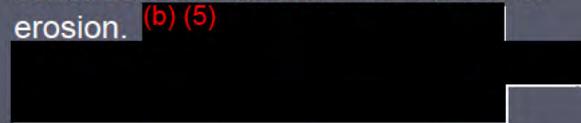
[Redacted]



Baquiano Trail – Cattle Hill

Issues

The trail system in this area runs along the ridges of the hills. There is considerable evidence of erosion as result it appears that new switch-back trails have been constructed to minimize the effects of erosion. (b) (5)



Site Overview



Typical trail appearance



Multiple trails treads have been cut in to control erosion.



There is a lack of trail definition at trail intersections.

Pedro Point

Issues

New Trail - No clearly defined trail or trailhead with parking.

Protection of habitat.

Residential development nearby.

(b) (5)



Pedro Point

Recommendations

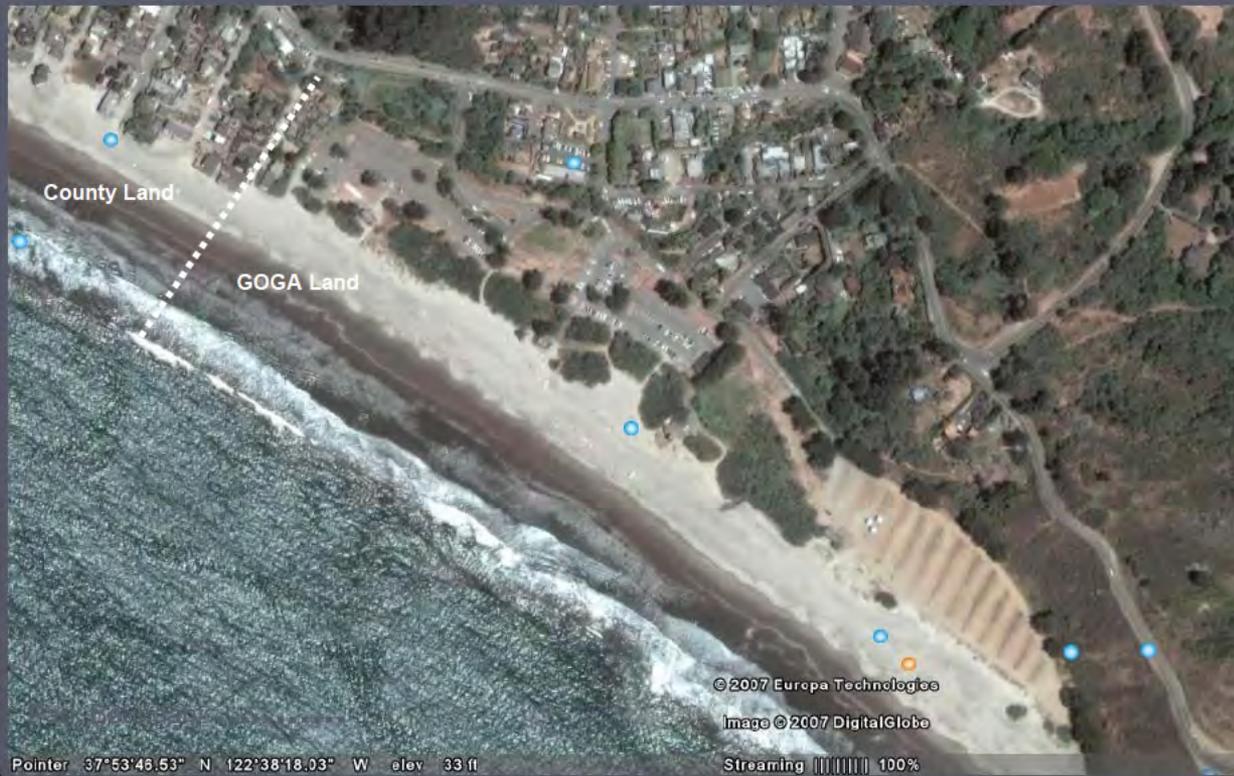
(b) (5)



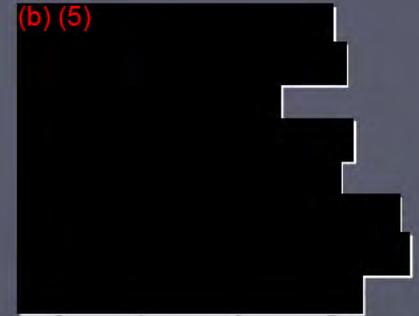
Wood posts with hog wire fence fabric will provide an effective barrier, protecting wildlife habitat.



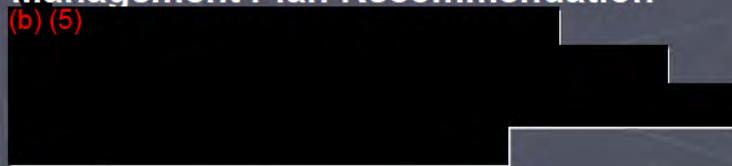
Stinson Beach



Issues



Management Plan Recommendation



Stinson Beach

Recommendation

(b) (5)

[Redacted text]



Carsonite Markers

Plastic pipe posts



Beach view "before"



Simulation showing beach with PVC barrier

Fort Baker

Issues

There appears to be little problem with current use patterns.

The wood stairway providing access to the upper level of Battery Yates runs along the top of the bluff. There is a break in the stair railing leading to this upper level thereby creating a potential safety hazard.



Management Plan Recommendation Alternative B

(b) (5)

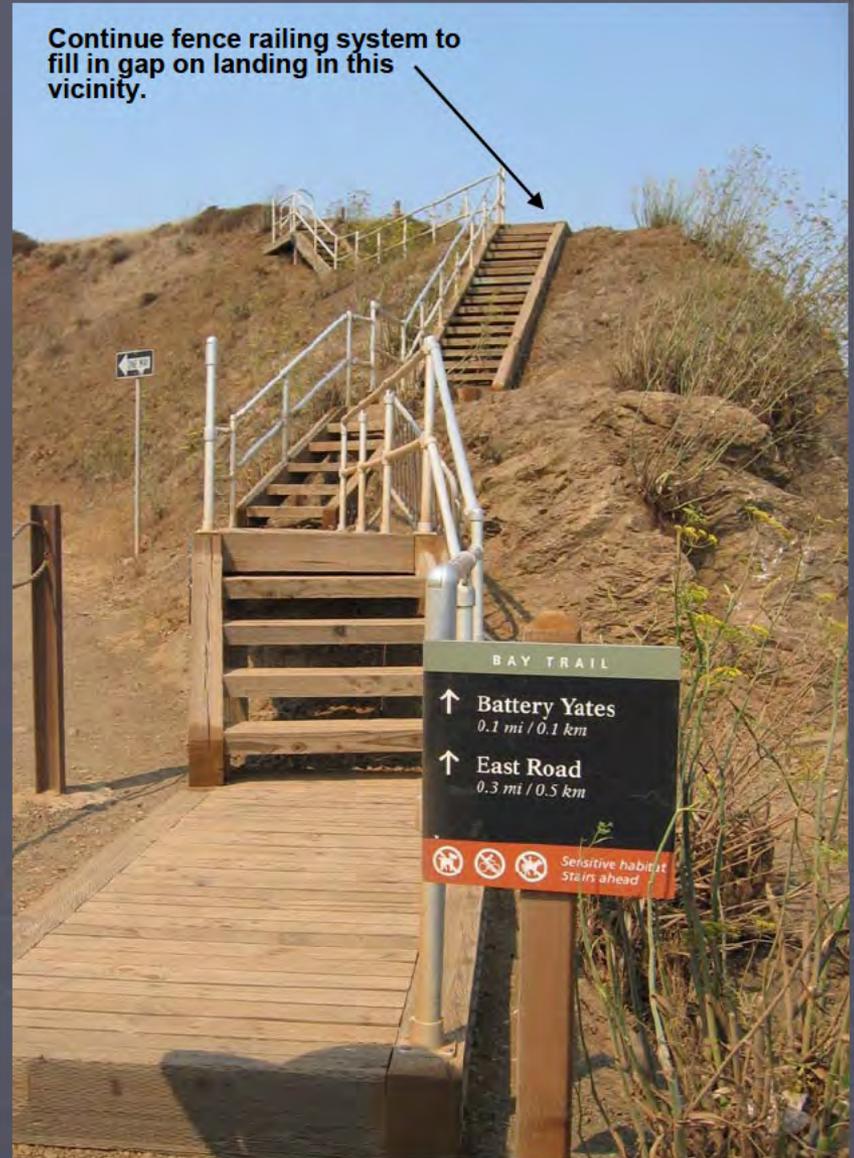
[Redacted]

Fort Baker

Recommendations

(b) (5)

[Redacted text block]

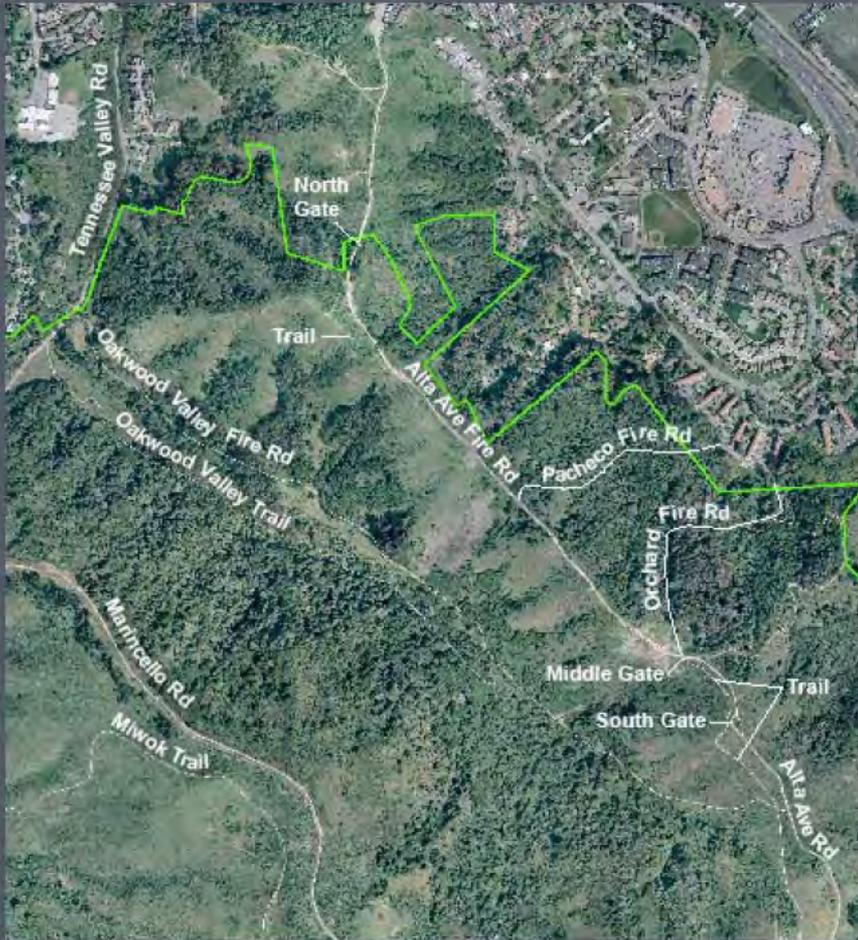


Oakwood Valley/Alta Avenue

Issues

(b) (5)

[Redacted text block]



Open meadow at Oakwood Valley trailhead



Lower Fire Road trail with open creek bed on the right



Lower Fire Road trail with edge barriers.



Foot bridge & erosion where lower Oakwood meets upper Fore Road/trails.

Management Plan Recommendations

(b) (5)

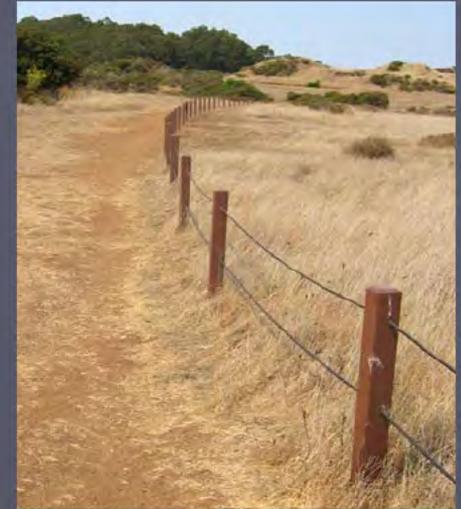
[Redacted text block]



Alta Avenue



Alta Avenue Fire Road with gates to control use.



A combination of native vegetation and simple post and cable fencing could be used as barriers to keep users on trails.



Mountain Bike Gateway – wood posts can be constructed to be removable to allow emergency and service vehicles (right).

Rodeo Beach



(b) (5)

[Redacted text block]

Rodeo Beach



Issues

(b) (5)

[Redacted text block]



Rodeo Beach

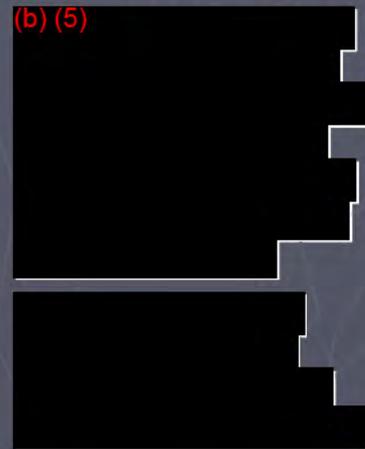


Rodeo beach – South Trail



Sand stairway from Baker Beach

Recommendations



Rodeo Beach



View to beach below from surrounding bench where parking area is situated.

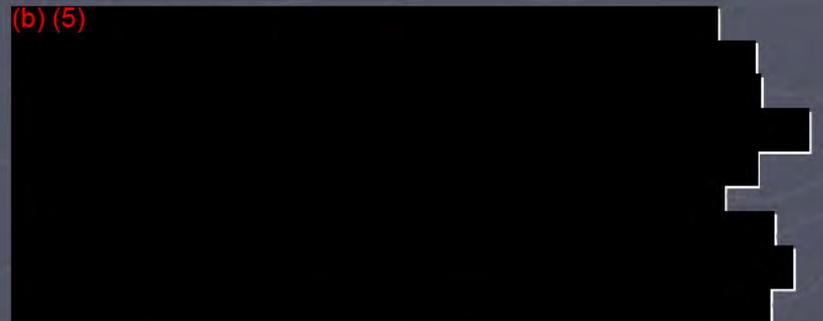


(b) (5)



Recommendation

(b) (5)



Fort Mason – Upper Parade Ground & Great Meadow



Issues

(b) (5)



Management Plan Recommendations Upper Fort Mason Parade ground/Great Meadow (b) (5)

Fort Mason – Great Meadow



Recommendations

(b) (5)

[Redacted content]



Fort Mason – Upper Parade Ground



Recommendations



Bench from the Great Meadow (right).



Baker Beach West Lobos Creek



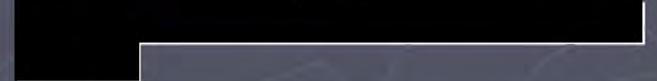
Issues

(b) (5)



Management Plan Recommendations Baker Beach West Lobos Creek Boardwalk

(b) (5)



Baker Beach West Lobos Creek

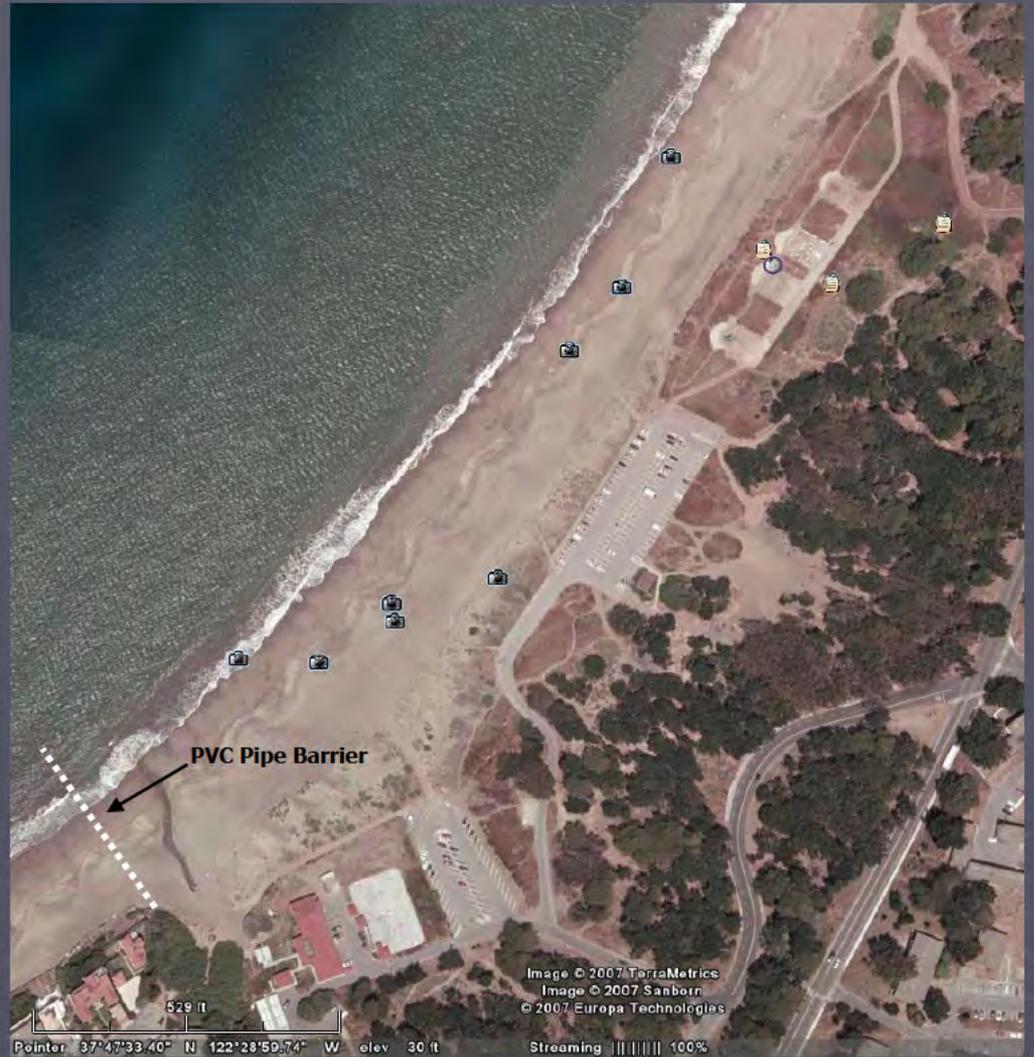
Recommendations

(b) (5)

(b) (5)



(b) (5)



Lands End & Fort Miley



Management Plan Recommendations

Lands End - (b) (5)

Fort Miley - (b) (5)

Lands End



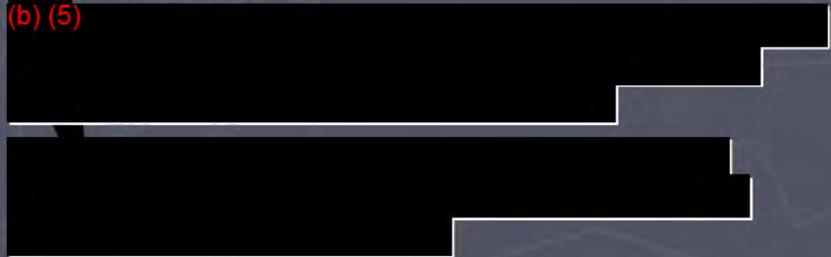
Issues

Identification of use areas.

Ensuring a safe environment for visitors

Recommendations

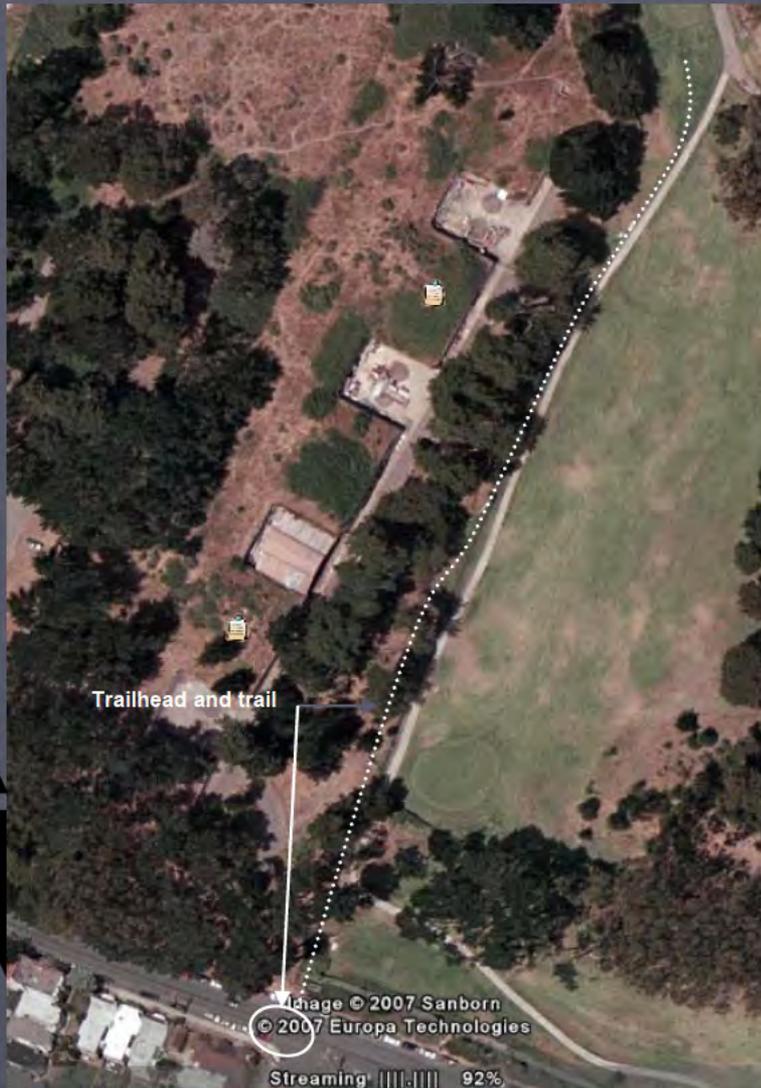
(b) (5)



All information should be organized in to one sign or a “family” of signs and posted in one location per trail entry point.



Fort Miley



Issues – Fort Miley

(b) (5)

[Redacted text block]

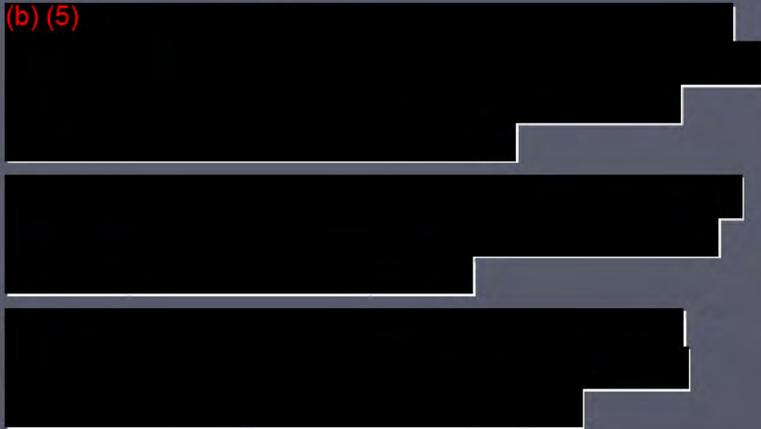


View on Clement Street where trail begins.

Fort Miley

Recommendations

(b) (5)



Steep drop-off from trail to maintenance area.



Fort Miley



(b) (5)



View on Clement Street where trail begins. New bollards & waste station shown to help delineate trailhead.

Waste stations (right and above right).



(b) (6)

Crissy Field



Management Plan Recommendations Alternatives C thru E

(b) (5)



Aerial view looking towards East Beach.

Crissy Field



View along Crissy Field promenade.



View showing East Beach with jetty and pilings.

Issues

(b) (5)



View from East to Central Beaches showing rip-rap.

Crissy Field



Recommendations

(b) (5)



PVC Pipe Barrier.



Add rip-rap up to fence to close off beach connector to visitors.

Crissy Field

Recommendations

(b) (5)

[Redacted]

[Redacted]



Examples of commercially available waste collection stations (right). Visitors with dogs on East Beach during a weekday.



Fort Funston

Issues

(b) (5)

[Redacted text]

Management Plan Recommendations

(b) (5)

[Redacted text]



Professional dog sitters often arrive with up to ten dogs in their trucks and vans.



Heavy use creates a concentration of waste products.



Fort Funston

Recommendations

Fort Funston is a large park unit offering a variety of terrain and landscapes from the primary and secondary dunes covered with native vegetation to that active beach shoreline. There is considerable topographic variation here as well as a fairly strong constant wind.

(b) (5)

[Redacted text block]



Dog watering fountain in parking area

Electronic dog deterrent runs on batteries. Other example in Appendix A.



Battlefield style fencing to delineate use areas.

Fort Funston



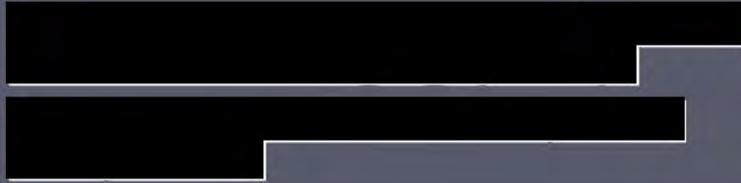
-  Off Leash or Voice Command Area
-  Battlefield Fence Line
-  New Sand Stairway or Repair Existing Sand Stairway
-  PVC Pipe Beach Barrier (right)



Ocean Beach

Issues

(b) (5)

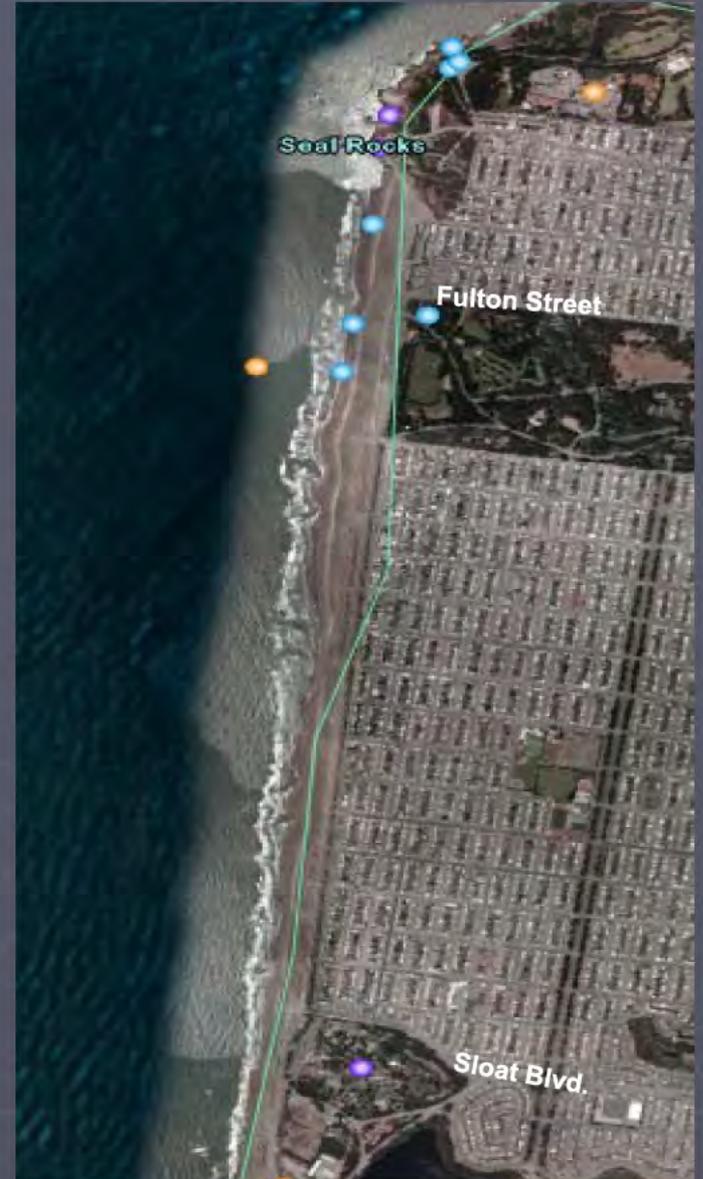
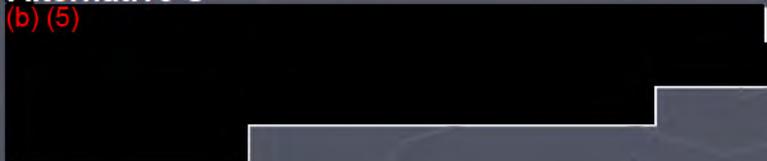


Typical view of seawall and stairwells which provide access to the beach.

Management Plan Recommendation

Alternative C

(b) (5)



Ocean Beach

Recommendations

(b) (5)



Stairwell #21 - Typical Ocean Beach access point with small swing gate to allow periodic closures for Snowy Plover protection.



Post signs along seawall piers regarding dog use and Snowy Plover.



Snowy plover and typical informational sign.



(b) (5)



Appendix - Palette of Landscape Treatments

Signage

Regulatory – Regulatory signs are used to provide the rules and regulations regarding the use of an area, times of operation, etc.



Informational - The snowy plover signs in the park is typical of informational signs which are used to educate the public about the flora, fauna, rationale for management and use policies, etc.



Carsonite Markers – Are inexpensive durable markers that can be used in a variety of applications



Barriers - Wood Post and Rail

This type of fence has been used for many years throughout NPS areas although most frequently seen in civil war battlefield Parks.

It can be constructed from a variety of lumber – precision is not required for The materials or fabrication. The individual members are often tied together with baling wire. This fence is easily repaired and is fairly inexpensive to build and can be assembled by unskilled labor.

Cost for materials is approximately \$8.00 to \$12.00 per linear foot of fencing. Labor costs will vary.



Barriers

Post and cable – Similar to what is currently used throughout the park. Although is not a “solid” barrier, it does effectively delineate a boundary



Post and Wire Fencing – somewhat similar to the post and cable treatment, but creates a more impenetrable Barrier. This has been used effectively at Crissy Field. But has application for other areas within the park.



Wood post and rail – This type of fence has been used for many years throughout NPS areas although most frequently seen in civil war battlefield Parks.

It can be constructed from a variety of lumber – precision is not required for The materials or fabrication. The individual members are often tied together with baling wire. This fence is easily repaired and is fairly inexpensive to build and can be assembled by unskilled labor. It is most appropriate for “natural areas” such as Fort Funston.



Plantings

Plant Massing - Large massing of shrubs in an aesthetically pleasing manner is an excellent low maintenance barriers once the plants are established. The use of thorned or barbed plants adds an extra deterrent for people and animals.



Miscellaneous

Deterrents – There are products on the market that may have some application to controlling dog use within the park. Generally, there are two types – electronic devices and sprays. Two commonly available products are listed here. It would be necessary to experiment with them before their widespread application. Maintenance is a big concern for deterrents. They are included in this report as “food for thought.”

Scraminal is a commercially available electronic device that uses motion, body heat, and sound detection to help keep animals away from an objects or area. The portable device emits a high pitched alert to deter unwanted behavior. It will continue to emit the alert until the animal moves out of range. Effective range is 10' long and 3' wide. The device requires one 9 volt battery.



Boundary is an Indoor / outdoor dog and cat repellent. It is typically used as training aid specifically formulated to help keep pets and strays away from shrubbery, furniture and other select areas in and around your home. It is possible that it could be used in very specific sensitive areas or as a general deterrent. For example at Fort Funston many dogs urinate on or immediately adjacent to the parking barriers and due to the large numbers of dogs, creates an unpleasant odoriferous environment. Perhaps a product like this could be used to encourage more “decentralized” urination patterns. The product contains methyl nonyl ketone in a 1.9% concentration.



Waste Stations - Refuse Collection Facilities

This station is available with bags with header card type dispenser or bags on a roll. The bin is made from heavy gauge galvanized steel and then powder coated forest green for added protection and is also available in aluminum. The bin has a special chute which allows only small articles to be placed inside it ensuring it is used for the dog waste bags and not filled up with other trash. It also has a unique drop down front making emptying the bins a simple mess-free task. Each station comes with a bin, post, dispenser, sign and fixings. Customized signs and bin graphics are available. Capacity 11 gallon. Available from JJB Solutions.



This new "Dogipot" polythene dog waste station container is a very economical and durable freestanding dog waste removal "All In One" station. It is supported by a 4' galvanized square post. The waste station is available in forest green and sand beige. It holds up to 400 litter bags, dispensed out of two dispenser slots, has clear instructions and graphics posted in how to use the bags. It's container body is lined with a large heavy duty draw-tape trash liner bag. The lockable lid has round holes on both sides to drop and dispose bagged dog waste in an odorless, clean fashion. Manufactured by Dogipot Products.



Alternating wood posts – A barrier is created by using a line of posts alternating between post of different thicknesses and perhaps heights. This type of barrier can be used across a dirt road as a boundary delineator.



In-ground grating or decking – This type of barrier is used to prevent cattle from crossing into a restricted field. Although it is not likely that dogs will respond the same way to the barrier, it can make walking more difficult and help delineate a boundary.



PVC Beach barrier – This barrier is designed to delineate use areas at beaches. It is constructed from 2-inch diameter PVC piping and glued together. Portions of the pipe are buried to anchor it in the sand. It creates a low visually unobtrusive boundary delineator.



Fencing with gates

Wire Fencing & Gate – This treatment has been used effectively at Crissy Field and has applications for elsewhere in the park.

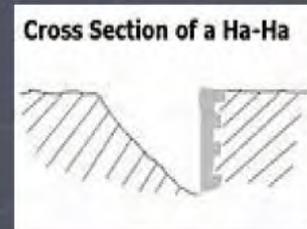
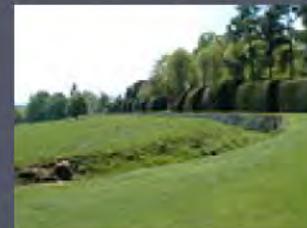


Grading Treatments

Retaining walls – as boundary delineators and physical barriers if the grade change is sufficiently great.



Ha Ha – Often a ditch that is hidden behind a hedge, shrub mass or a low fence.



Notes - by Site - on Landscape Architect Visit to GOGA

- **Sweeney Ridge/Cattle Hill:** (b) (5)
[Redacted]
- **Stinson:** (b) (5)
[Redacted]
- **Alta Avenue –** (b) (5)
[Redacted]
- **Oakwood Valley –** (b) (5)
[Redacted]
- **Rodeo Beach –** (b) (5)
[Redacted]
- **Muir –** (b) (5)
[Redacted]
- **Marin Trails –** (b) (5)
[Redacted]
- **Baker Beach –** (b) (5)
[Redacted]
- **Ft. Miley –** (b) (5)
[Redacted]
- **Ocean Beach –** (b) (5)
[Redacted]
- **Ft Funston –** (b) (5)
[Redacted]