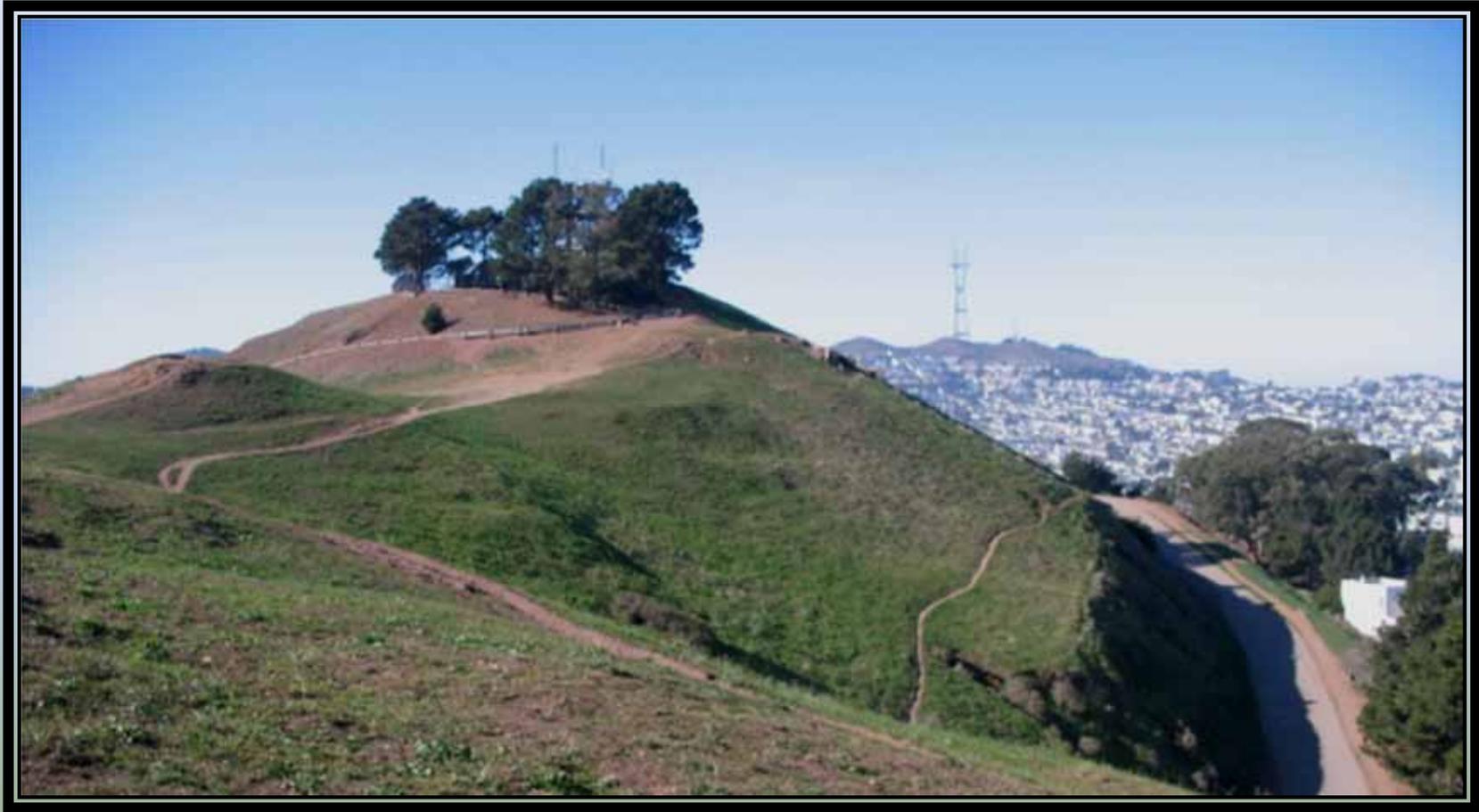


SF RECREATION & PARK DEPARTMENT • URBAN TRAILS PROGRAM



# BERNAL HEIGHTS TRAIL RESTORATION

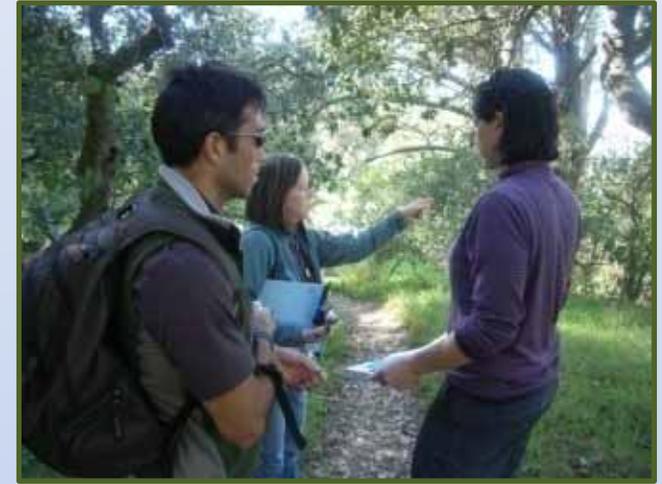
February 22, 2012

# BERNAL HEIGHTS TRAIL RESTORATION

## AGENDA

- WELCOME & INTRODUCTION
- URBAN TRAILS PROGRAM OVERVIEW
- TRAIL IMPROVEMENTS OVERVIEW
- SCHEDULE & NEXT STEPS
- QUESTIONS & DISCUSSION





## PROJECT TEAM

- Lisa Wayne / SF RPD – Natural Areas
- Meghan Tiernan / SF RPD – Capital Improvements
- Koa Pickering / SF DPW – Landscape Architecture
- Jessica Perez / SF DPW – Landscape Architecture



# URBAN TRAILS PROGRAM OVERVIEW

---

## FUNDING & BACKGROUND

- 2008 CLEAN AND SAFE NEIGHBORHOOD PARKS BOND PROVIDES \$5-MILLION FOR IMPROVEMENTS TO SF PARK TRAILS.
- PLANNING PROCESS HAS INCLUDED:
  - Public Meetings and Presentations before the Parks and Recreation Open Space Advisory Committee (PROSAC)
  - Precedent Research (GGNRA and Bay Ridge Trail)
  - Park Project Prioritization, Project Scopes , and Cost Estimates
  - Recreation & Park Commission Presentation and Approval of the Trail Program's Plan
  - Work with other Park and Stakeholder Organizations



# URBAN TRAILS PROGRAM OVERVIEW

---

## PROGRAM VISION AND GOALS:

*To connect people and neighborhoods to nature and to make natural areas and trails visible, healthy, and safe.*

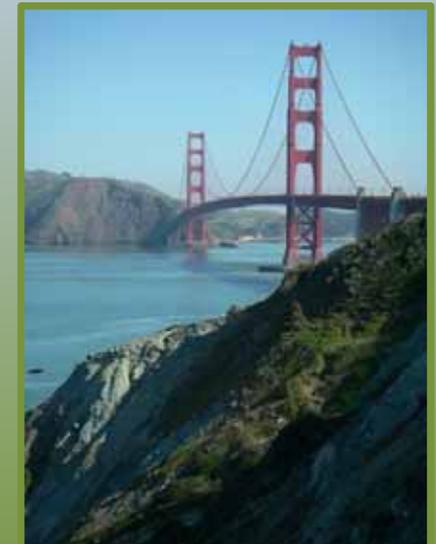
- ENHANCE AND IMPROVE UNIQUE URBAN TRAIL EXPERIENCES FOR SAN FRANCISCANS TO EXPLORE AND CONNECT TO NATURE IN THE CITY.
- IMPROVE TRAIL CONNECTIVITY AND NETWORKS WITH OTHER RECREATIONAL OPPORTUNITIES.
- IMPROVE TRAILS AND RELATED AREAS THAT PROTECT NATURAL RESOURCES AND SENSITIVE HABITATS
- IMPROVE TRAIL SAFETY
- DEVELOP A SUSTAINABLE TRAIL SYSTEM THAT LEVERAGES VOLUNTEER EFFORTS AND FUNDING RESOURCES
- CREATE THE FOUNDATION FOR A ROBUST LONG-TERM URBAN TRAILS PROGRAM



# URBAN TRAILS PROGRAM OVERVIEW

## PARTNER AND STAKEHOLDER ORGANIZATIONS:

- RECREATION AND PARK COMMISSION
- AUDOBON SOCIETY
- CALIFORNIA NATIVE PLANT SOCIETY
- LIVABLE CITY
- NATURE IN THE CITY
- NEIGHBORHOOD PARKS COUNCIL (NPC)
- PARK, RECREATION AND OPEN SPACE ADVISORY COMMITTEE (PROSAC)
- SF PARKS TRUST
- SF BEAUTIFUL
- SF TOMORROW
- SIERRA CLUB
- TRUST FOR PUBLIC LAND
- WALK FOR SF

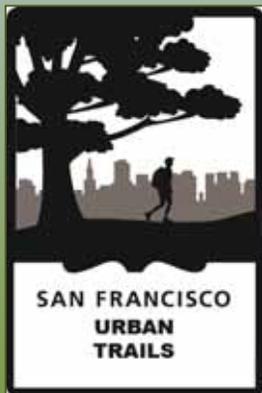


# URBAN TRAILS PROGRAM FUNDING

---



- 2008 CLEAN AND SAFE NEIGHBORHOOD PARKS BOND PROVIDED \$5-MILLION FOR IMPROVEMENTS TO SF PARK TRAILS.
- 26 ORIGINAL CANDIDATE PARK SITES IDENTIFIED.
- 11 PRIORITY SITES WILL RECEIVE FUNDING FOR LIMITED SCOPE PROJECTS: BASIC TRAIL IMPROVEMENTS.
- RPD IS UNDERTAKING ADDITIONAL FUNDRAISING EFFORTS TO IMPLEMENT MORE COMPLETE IMPROVEMENT SCOPES.
- RPD IS ALSO UNDERTAKING GRANT WRITING EFFORTS, AS WELL, AS WORKING WITH NON-PROFIT PARTNER ORGANIZATIONS TO HELP LEVERAGE BOND FUNDS.



# URBAN TRAILS PROGRAM LOCATIONS



# URBAN TRAILS PROGRAM MILESTONES

## PHASE I (YEAR 1)



GRAND VIEW PARK



BILLY GOAT HILL



CORONA HEIGHTS

## PHASE 2 (YEARS 2 AND 3)



GLEN CANYON



OAK WOODLANDS



TWIN PEAKS

## PHASE 3 (YEARS 3 AND 4)



BERNAL HEIGHTS PARK



BAY VIEW PARK

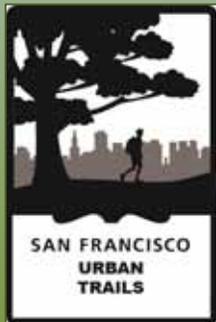
## PHASE 4 (YEARS 4 AND 5)



MT. DAVIDSON PARK



JOHN MCLAREN PARK



# TRAIL IMPROVEMENT EXAMPLES



CREATING SUSTAINABLE AND SAFE TRAILS

# TRAIL IMPROVEMENT EXAMPLES



PATH, TRAIL, AND STAIR ENHANCEMENTS

# TRAIL IMPROVEMENT EXAMPLES



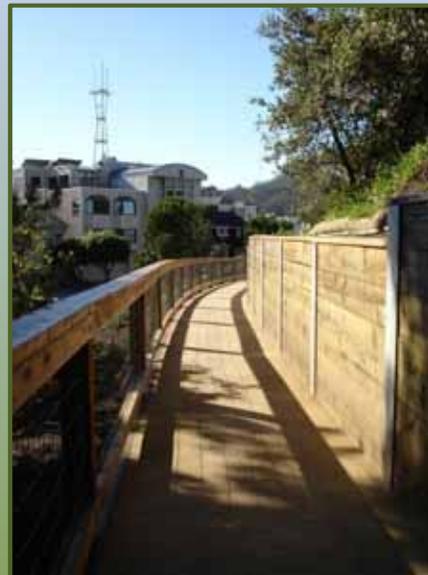
RUSTIC FENCING



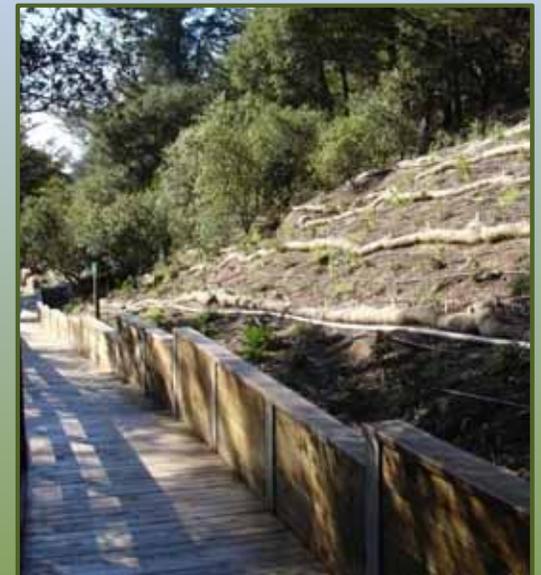
SURFACE IMPROVEMENTS



ACCESSIBLE TRAILS



RETAINING WALLS AND EROSION CONTROL  
FOR TRAIL SUSTAINABILITY



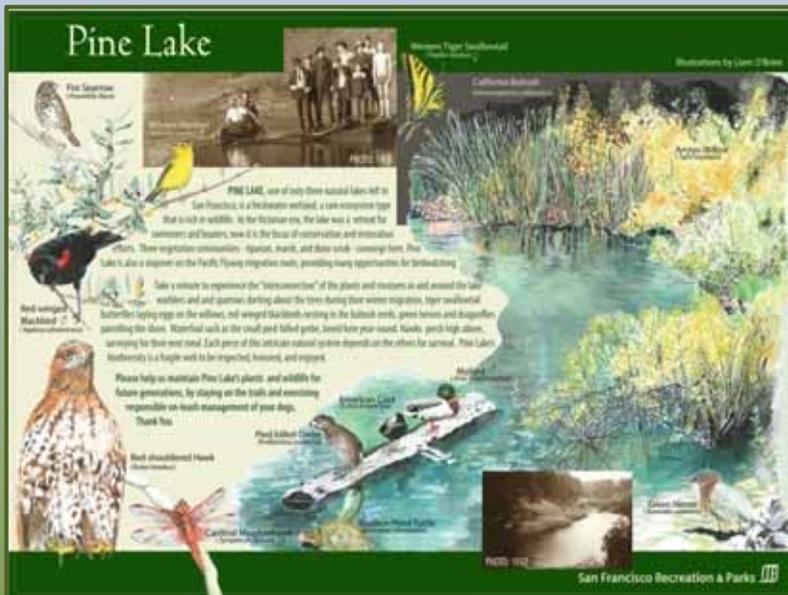
# TRAIL SIGNAGE EXAMPLES



DIRECTIONAL SIGN



DIRECTIONAL SIGN



INTERPRETIVE SIGN



WAYFINDING SIGN

# TRAIL RESTORATION EXAMPLES



HABITAT PLANTING



HABITAT PLANTING



TRAIL MAINTENANCE



TRAIL MAINTENANCE



BERNAL HEIGHTS TRAIL RESTORATION  
EXISTING CONDITIONS

# BERNAL HEIGHTS TRAIL RESTORATION



EXISTING TRAIL NETWORK

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



PASSIVE RECREATION

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



ENJOYMENT OF THE VIEWS

# BERNAL HEIGHTS TRAIL RESTORATION

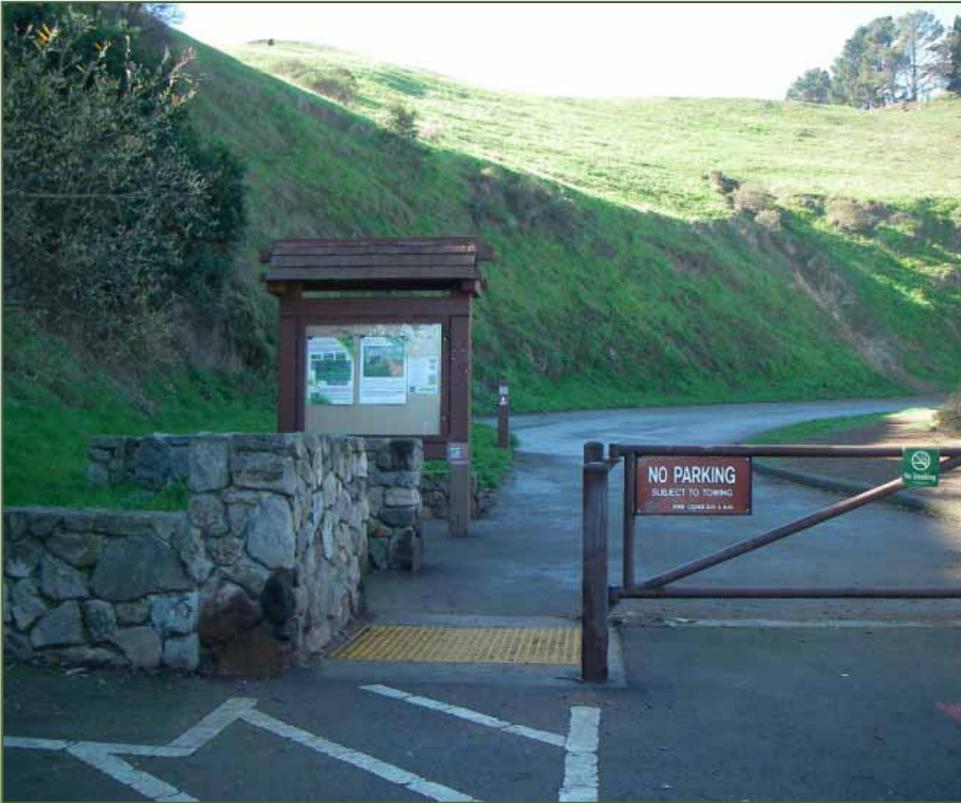
## EXISTING SITE CONDITIONS



OFF-LEASH DOG WALKING AREA

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



MAIN ENTRIES

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



UNDEFINED ENTRIES

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



ERODED STAIRWAY ENTRY

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



ERODED SLOPING ENTRY

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



NARROW TRAILS

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



CRISS-CROSSING TRAILS

# BERNAL HEIGHTS TRAIL RESTORATION

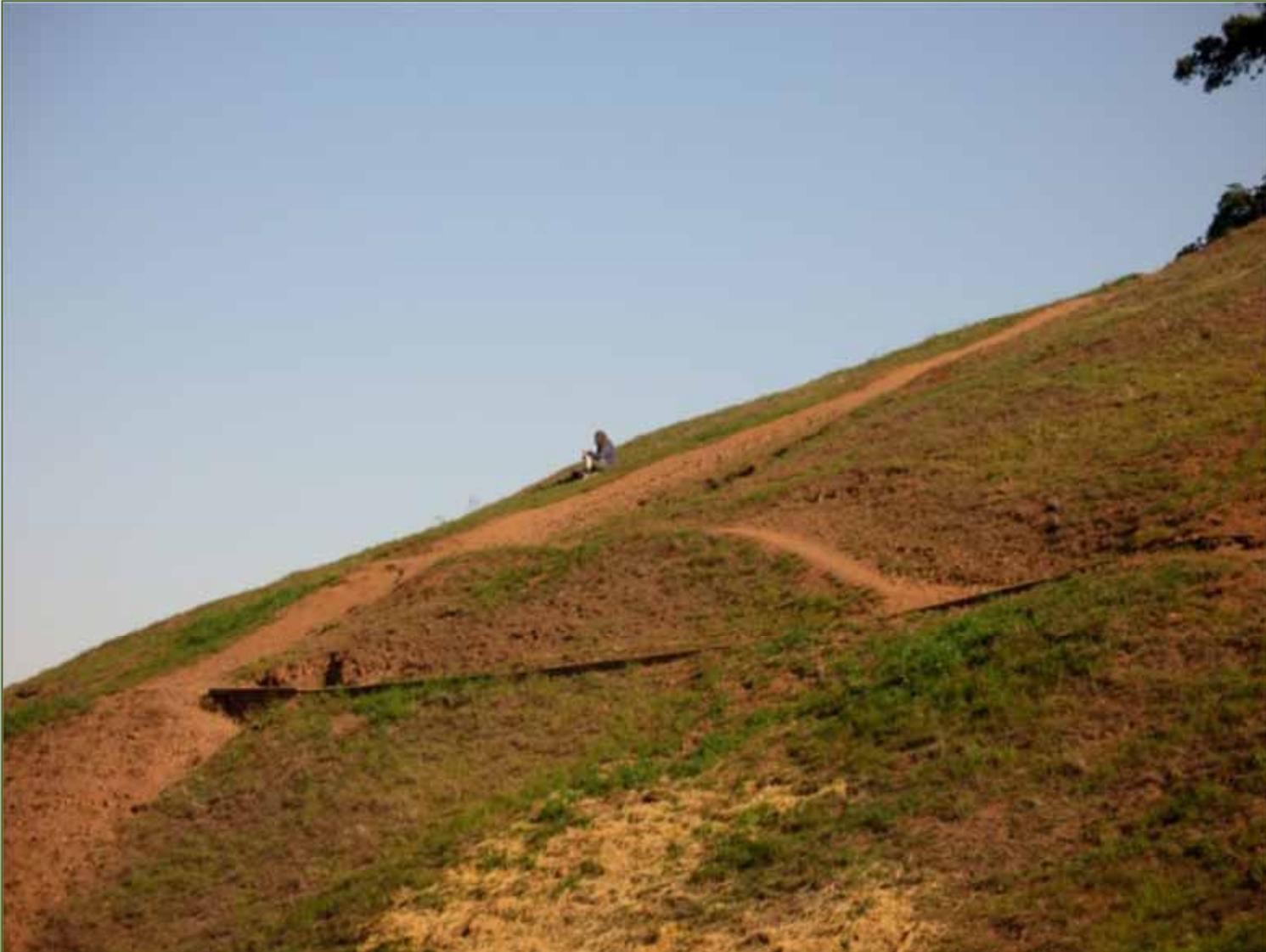
## EXISTING SITE CONDITIONS



CRISS-CROSSING TRAILS

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



EROSION ALONG TRAILS

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



EROSION ALONG TRAILS

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



WASHED-OUT TRAIL

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



ERODED TRAIL AND STAIRWAY

# BERNAL HEIGHTS TRAIL RESTORATION

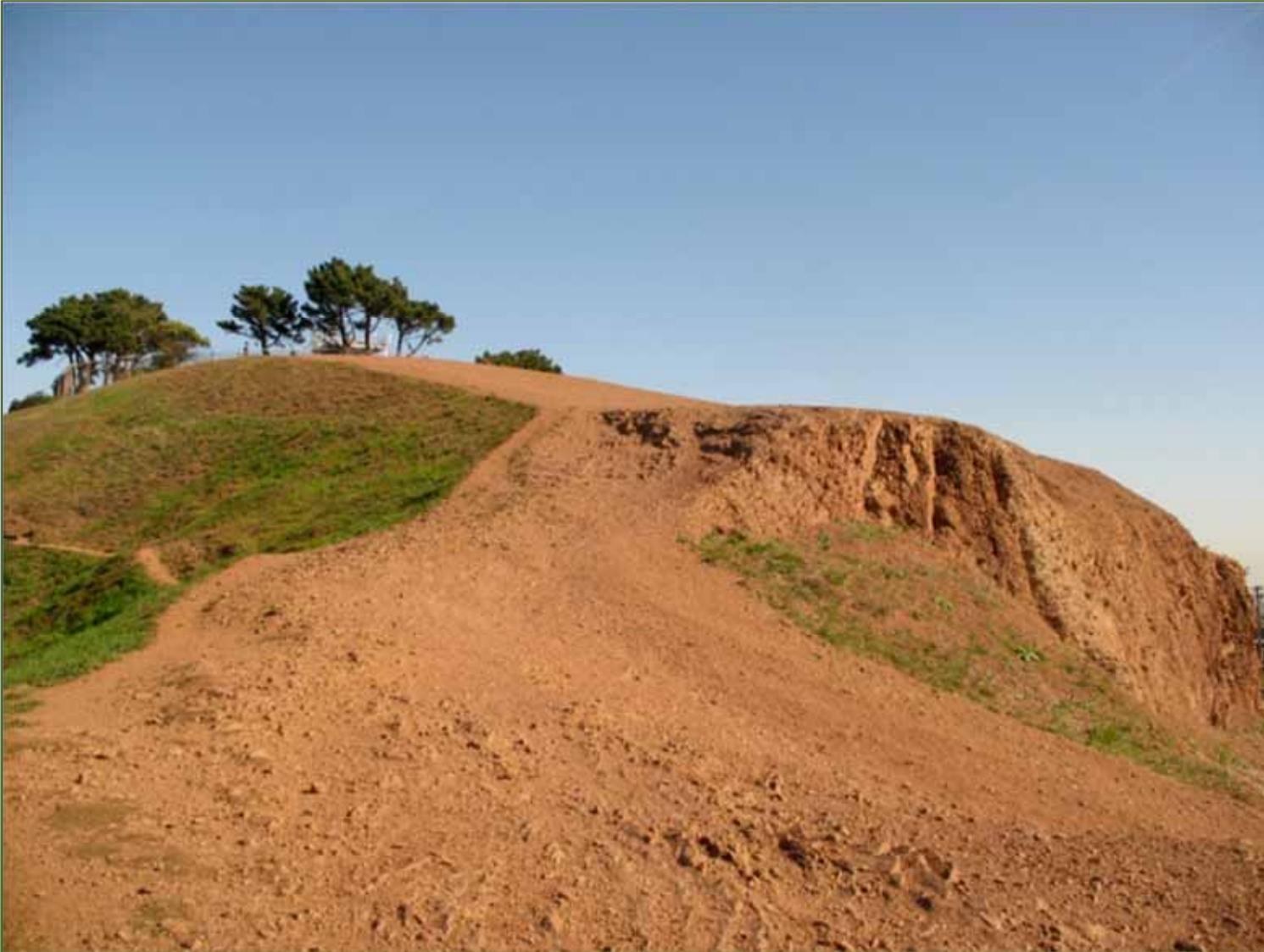
## EXISTING SITE CONDITIONS



ERODED TRAIL AND STAIRWAY

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



DENUDED SLOPES

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



DENUDED SLOPES

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



SEVERE EROSION

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



SEVERE EROSION

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



GULLIES AND WASHED-OUT DEBRIS

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



WILDLIFE HABITAT AREA

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



GREAT HORNED OWL  
*Bubo virginianus*



AMERICAN KESTREL  
*Falco sparverius*

WILDLIFE

# BERNAL HEIGHTS TRAIL RESTORATION

## EXISTING SITE CONDITIONS



STAR LILY  
*Ziagadenus fremontii*



SHOOTING STAR  
*Dedecantheon hendersonii*

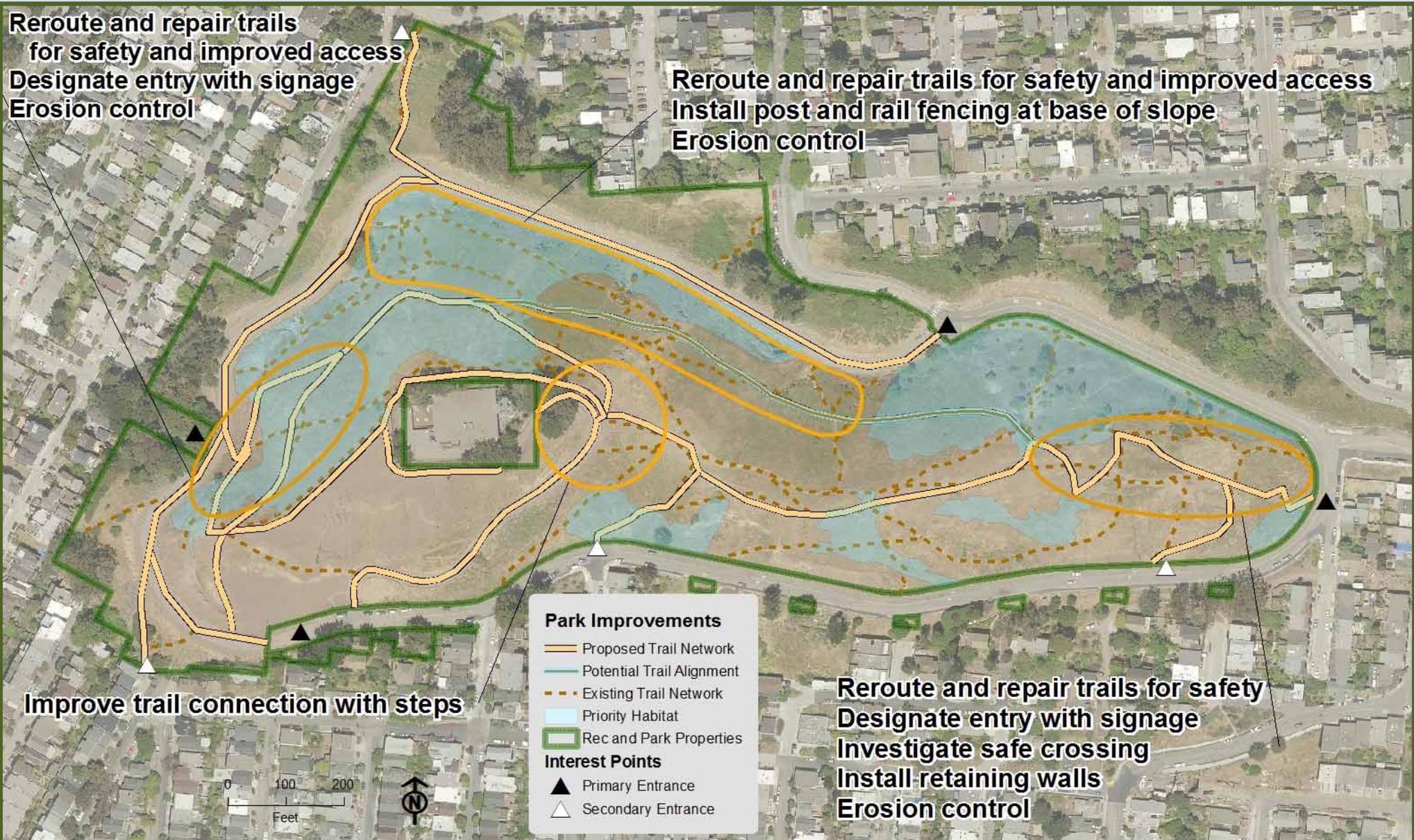
RARE PLANT HABITAT

# BERNAL HEIGHTS TRAIL RESTORATION CONCEPTUAL PROJECT GOALS

- IMPROVE TRAIL LINKAGES AND CONNECTIONS WITH THE NEIGHBORHOOD
- ADDRESS ERODIVE TRAILS AND REPAIR/RESTORE ERODED AREAS
- IMPROVE INFORMAL TRAIL ENTRIES / SIGNAGE
- CONSOLIDATE REDUNDANT TRAIL ALIGNMENTS
- ENHANCE HABITAT QUALITY WITH RESTORATION PLANTING AND INVASIVE PLANT CONTROL
- INCREASE ACCESSIBILITY
- INCREASE SAFETY



# BERNAL HEIGHTS TRAIL RESTORATION CONCEPTUAL IMPROVEMENT PLAN



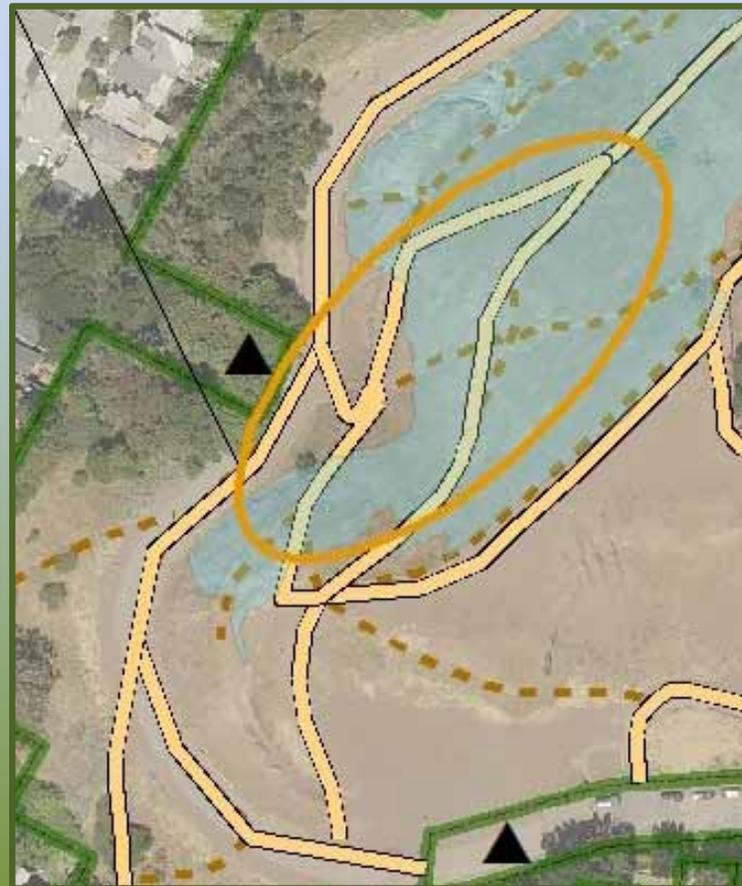
Bernal Hill Concept Plan



# BERNAL HEIGHTS TRAIL RESTORATION CONCEPTUAL IMPROVEMENTS AREA ENLARGEMENTS

## WEST ENTRY TO TRAIL @ ELSIE STREET :

- REROUTE AND REPAIR TRAILS FOR SAFETY AND IMPROVED ACCESS
- DESIGNATE ENTRY WITH SIGNAGE
- EROSION CONTROL



### Park Improvements

- Proposed Trail Network
- Potential Trail Alignment
- - - Existing Trail Network
- Priority Habitat
- Rec and Park Properties

### Interest Points

- ▲ Primary Entrance
- △ Secondary Entrance

# BERNAL HEIGHTS TRAIL RESTORATION CONCEPTUAL IMPROVEMENTS AREA ENLARGEMENTS

## NORTHERN SLOPE:

- REROUTE AND REPAIR TRAILS FOR SAFETY AND IMPROVED ACCESS
- INSTALL POST AND RAIL FENCING AT BASE OF SLOPE
- EROSION CONTROL



### **Park Improvements**

- Proposed Trail Network
- Potential Trail Alignment
- - - Existing Trail Network
- Priority Habitat
- Rec and Park Properties

### **Interest Points**

- ▲ Primary Entrance
- △ Secondary Entrance



# BERNAL HEIGHTS TRAIL RESTORATION CONCEPTUAL IMPROVEMENTS AREA ENLARGEMENTS

## EAST ENTRY @ BERNAL HEIGHTS BOULEVARD:

- REROUTE AND REPAIR TRAILS FOR SAFETY
- DESIGNATE ENTRY WITH SIGNAGE
- INVESTIGATE SAFE CROSSING
- INSTALL RETAINING WALLS
- EROSION CONTROL



### Park Improvements

- Proposed Trail Network
- Potential Trail Alignment
- - Existing Trail Network
- Priority Habitat
- Rec and Park Properties

### Interest Points

- ▲ Primary Entrance
- △ Secondary Entrance

# BERNAL HEIGHTS TRAIL RESTORATION CONCEPTUAL IMPROVEMENTS AREA ENLARGEMENTS

## SUMMIT:

- IMPROVE TRAIL CONNECTION WITH STEPS



### Park Improvements

- Proposed Trail Network
- Potential Trail Alignment
- - - Existing Trail Network
- Priority Habitat
- Rec and Park Properties

### Interest Points

- ▲ Primary Entrance
- △ Secondary Entrance



# BERNAL HEIGHTS TRAIL RESTORATION COMMUNITY FEEDBACK

## PARK ELEMENTS FOR DISCUSSION

- ENTRIES & SIGNAGE: HIERARCHY
- TRAIL ALIGNMENT: PREFERRED SEGMENTS AND ROUTE(S)
- TRAIL CONNECTIONS & CROSSINGS: SAFETY & CONTINUITY
- HABITAT PROTECTION & ENHANCEMENT: INVASIVES MITIGATION AND RESTORATION

# BERNAL HEIGHTS TRAIL RESTORATION CONSTRUCTION BUDGET AND SCHEDULE

## TOTAL PROJECT BUDGET:

- \$750,000 CLEAN & SAFE NEIGHBORHOOD PARKS BOND

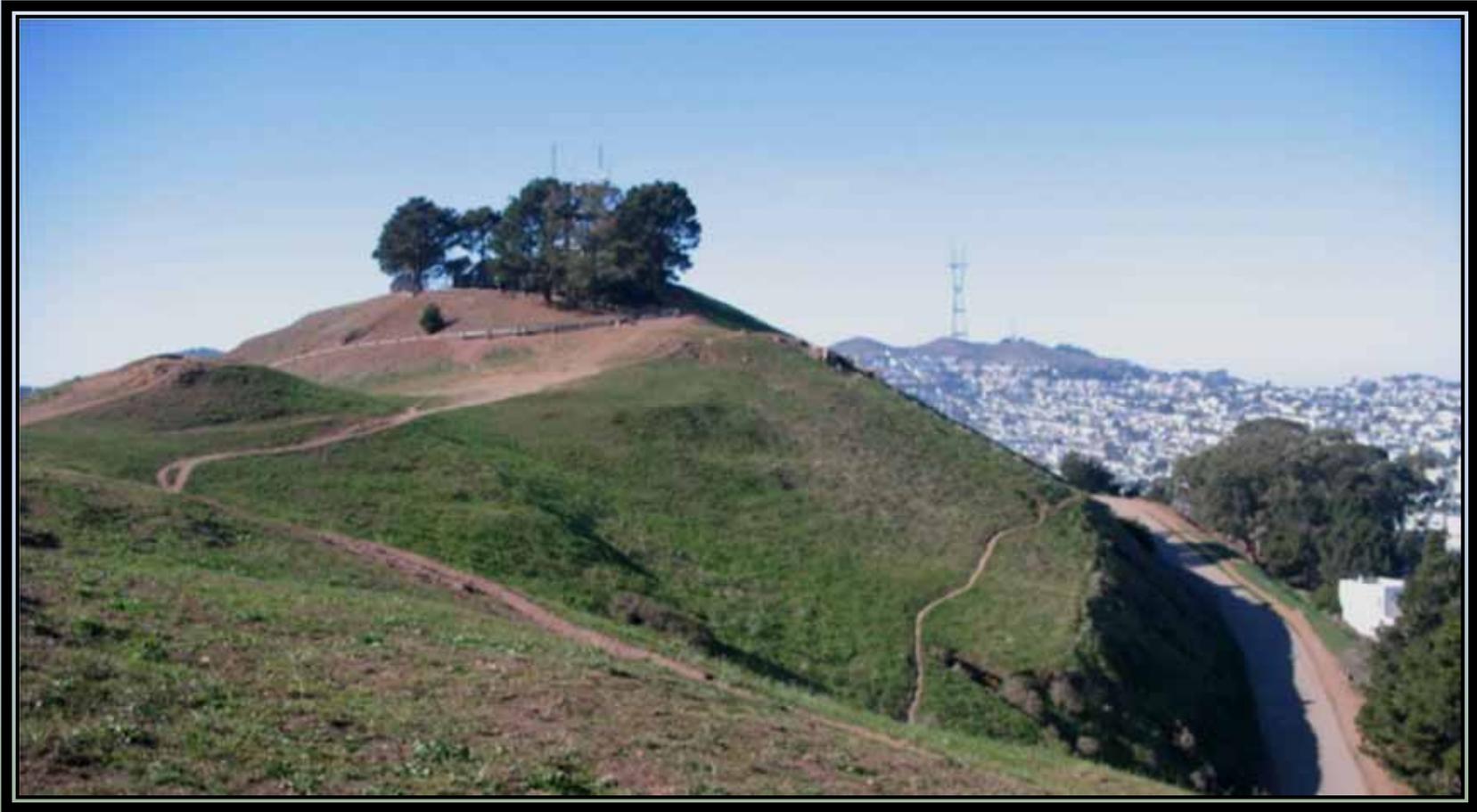
## PROJECT SCHEDULE (TENTATIVE):

- PLANNING: January – April 2012
  - Community Meeting 3: April 4, 2012 -
- DESIGN DEVELOPMENT: May - Oct 2012
- BID/AWARD: November 2012 – February 2013
- CONSTRUCTION: March – October 2013

# URBAN TRAILS PROGRAM NEXT STEPS

- VOLUNTEER OPPORTUNITIES
- FUNDRAISING OPPORTUNITIES
- FUTURE PHASE TRAIL PROJECTS:
  - BAYVIEW PARK



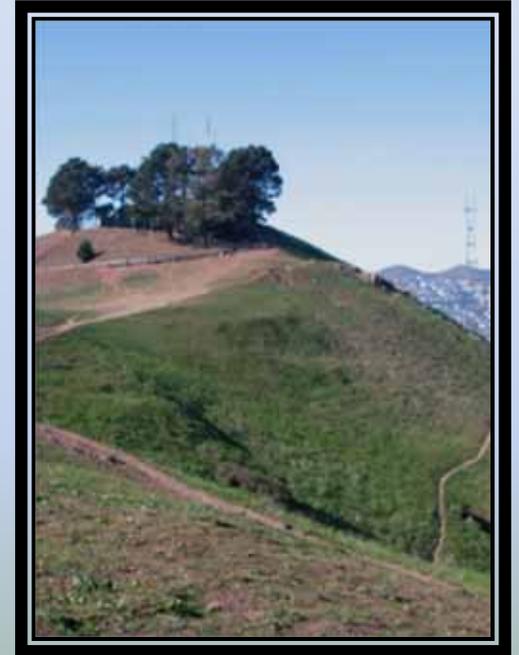


BERNAL HEIGHTS TRAIL RESTORATION  
QUESTIONS & DISCUSSION

# URBAN TRAILS PROGRAM CONTACT INFORMATION



- Lisa Wayne / SF RPD:  
Lisa.Wayne @ sfgov.org
- Meghan Tiernan / SF RPD:  
Meghan.Tiernan @ sfgov.org



THANK YOU