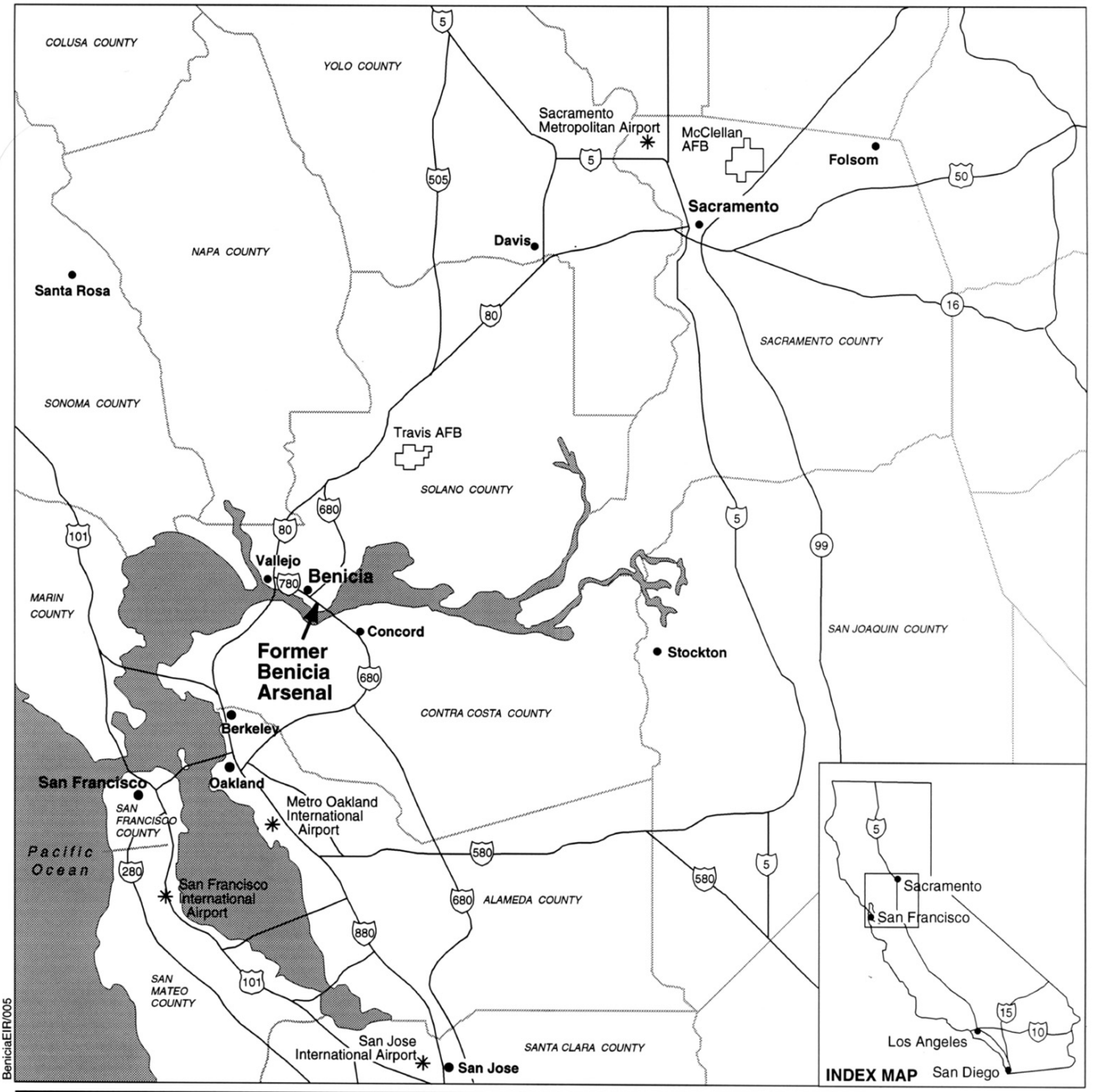


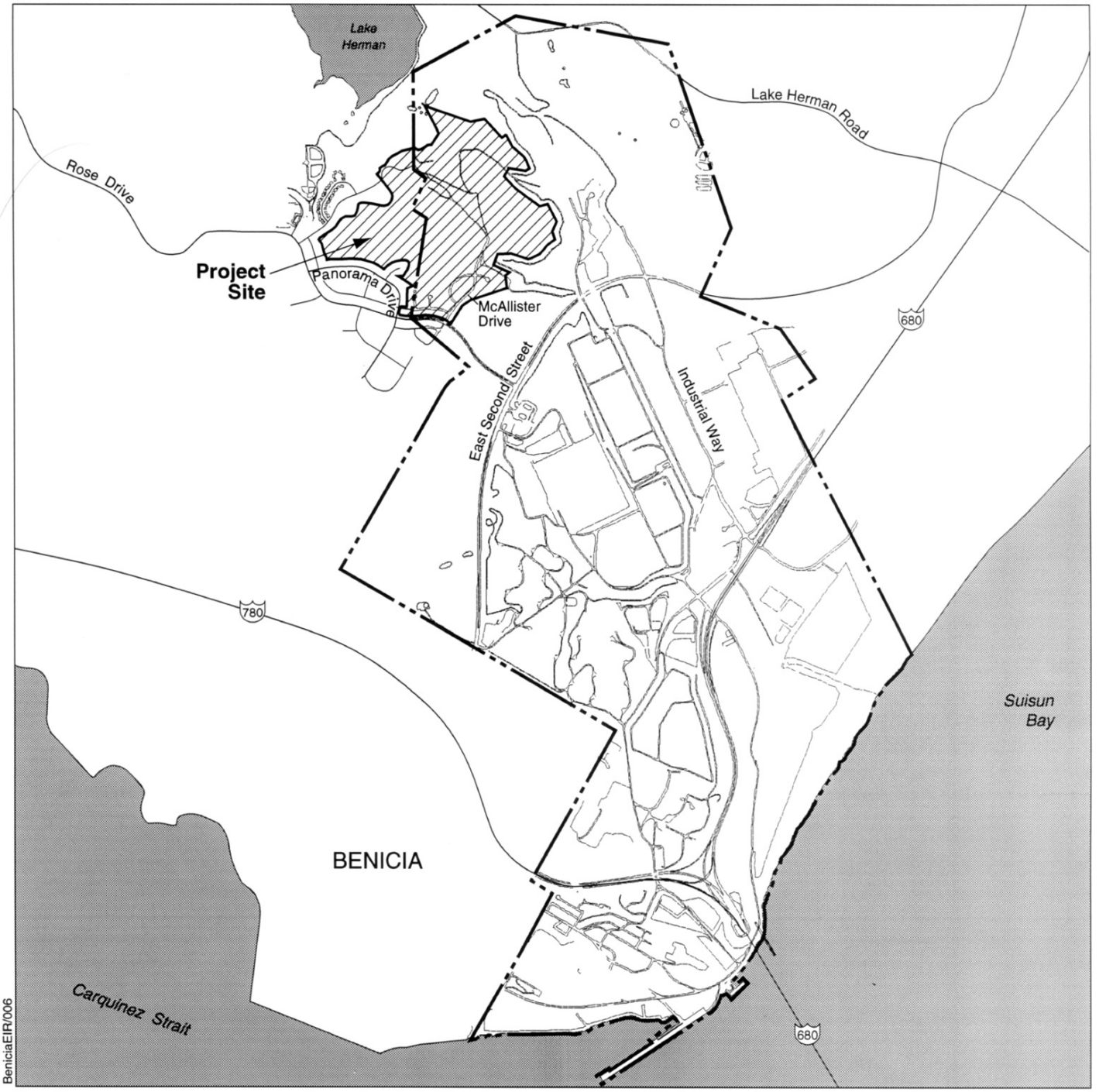
EXPLANATION

- ✳ Airports
- (99) California State Highway
- (101) U.S. Highway
- (280) Interstate Highway
- County Boundary

0 3.5 7 14 Miles

Regional Map

Figure 1-1



EXPLANATION

680 Interstate Highway

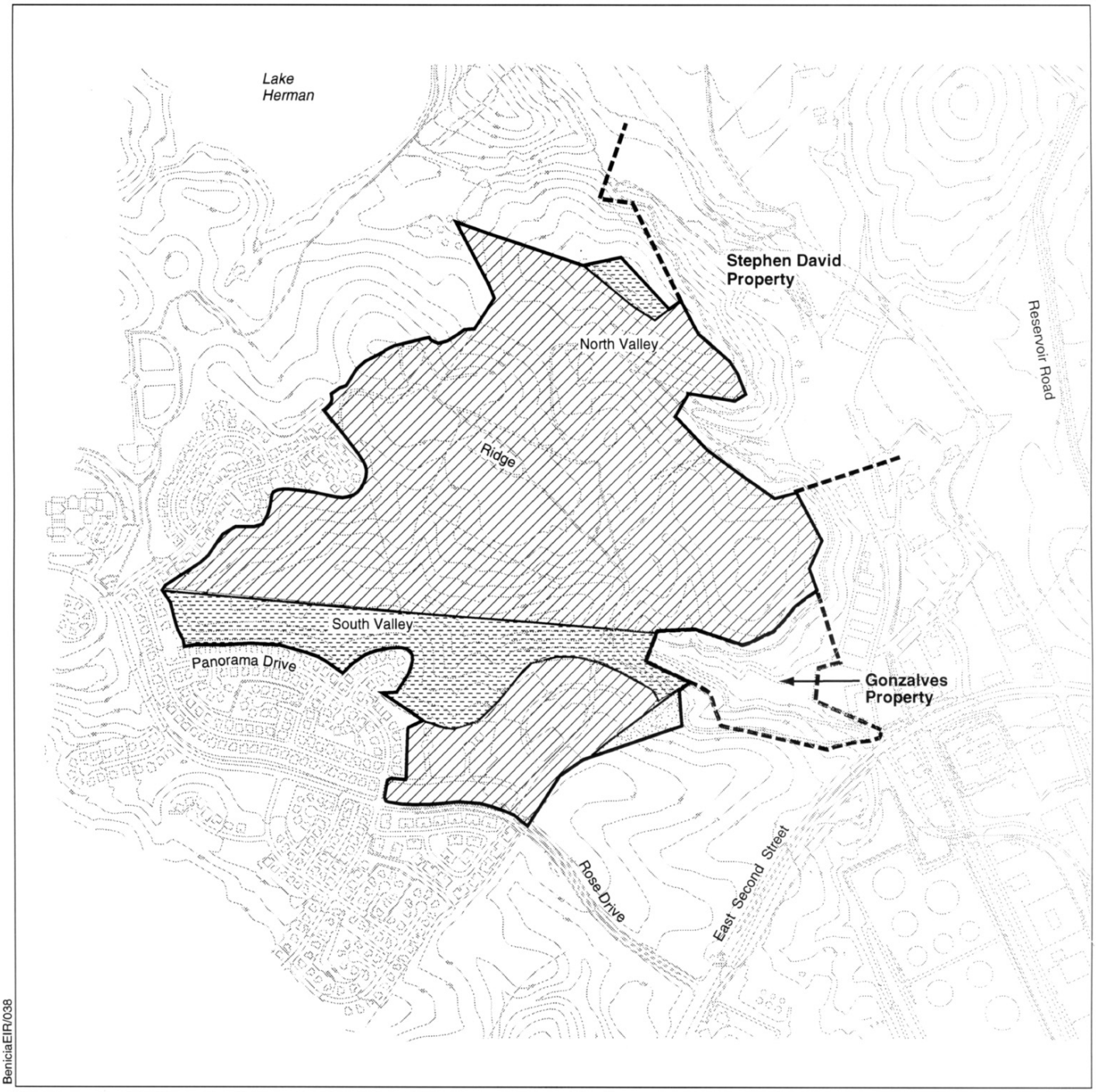
Project Site

Former Benicia Arsenal Boundary

Former Benicia Arsenal

0 .125 .25 .5 Mile

Figure 1-2



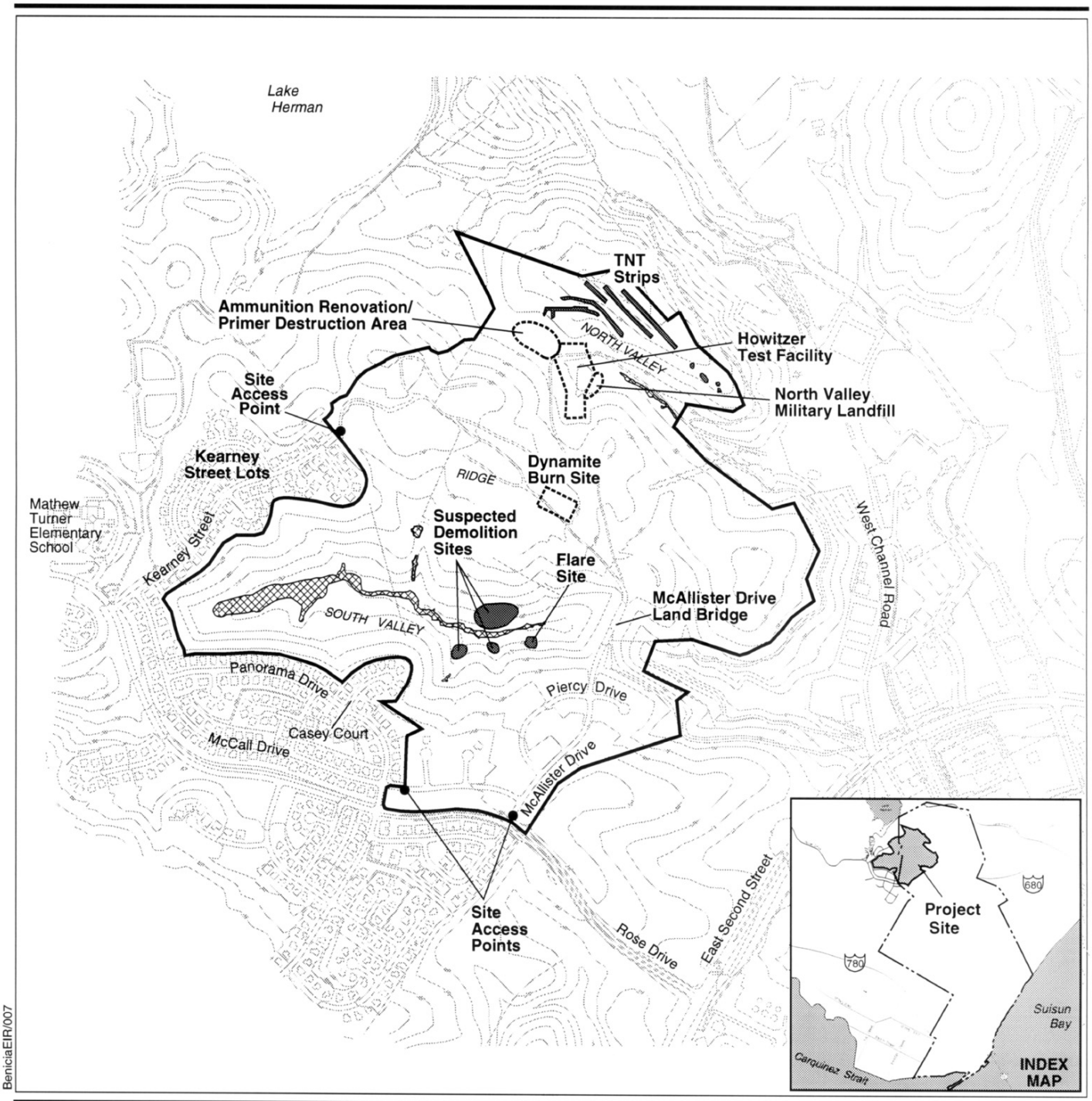
EXPLANATION

- Project Site Boundary
- Adjacent Property Boundary
- City of Benicia
- FN Projects, Inc.
- Valero Energy Corporation

Project Site Property Ownership and Adjacent Properties Subject to Investigation

0 250 500 1000 Feet

Figure 2-1



EXPLANATION

Project Site Boundary

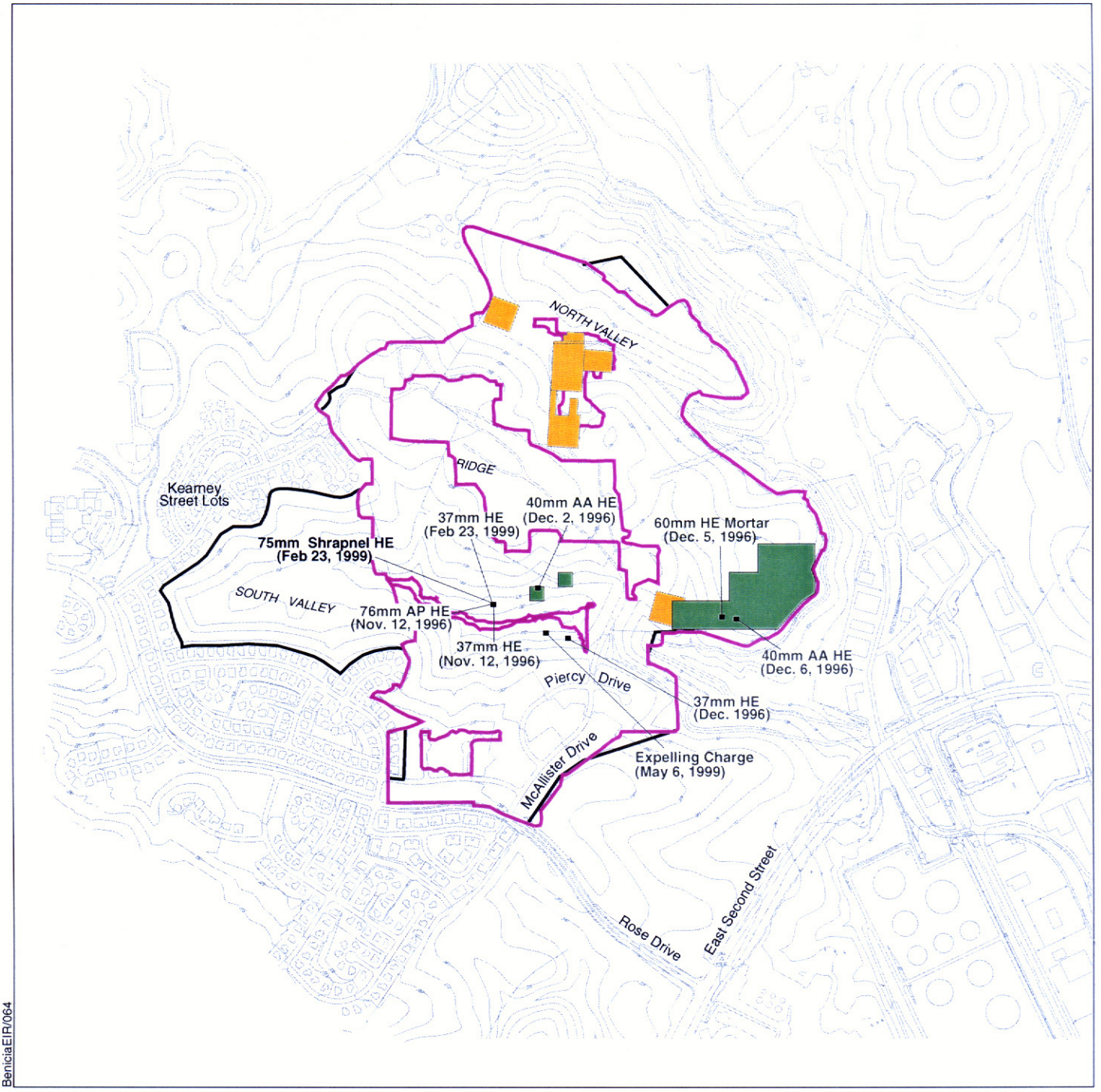
Jurisdictional Wetlands

Project Site Features

0 250 500 1000 Feet

Note: Contour interval equals 25 feet.

Figure 2-2



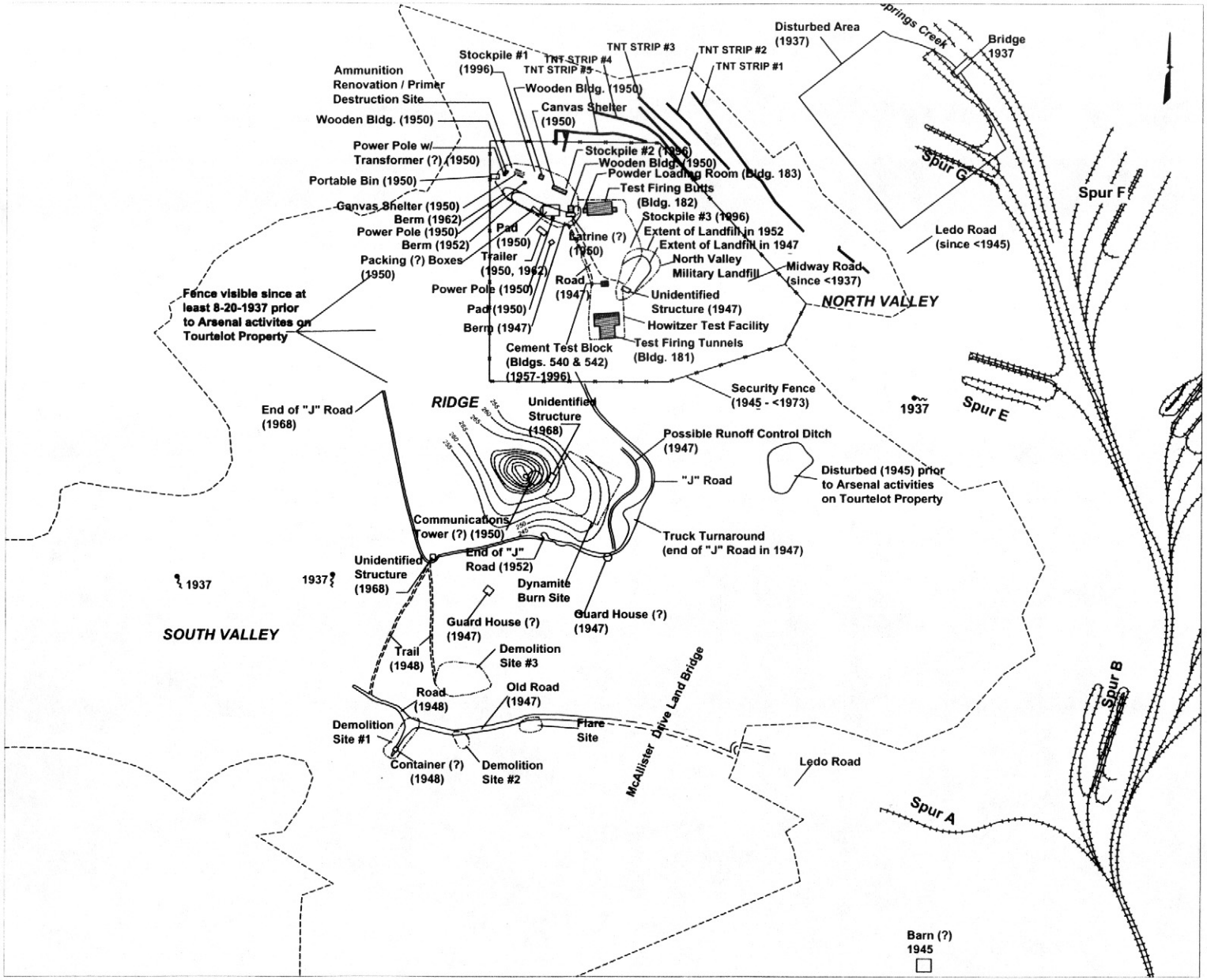
EXPLANATION

- Project Site Boundary
- Locations of Ordnance and Explosives Findings
- Area Geophysically Mapped
- OE Cleared by Granite (Dec 2-13 1996)
- OE Cleared by Granite (Aug 6-30 1996)

0 250 500 1000 Feet

Ordnance and Explosives Findings

Figure 2-3



EXPLANATION

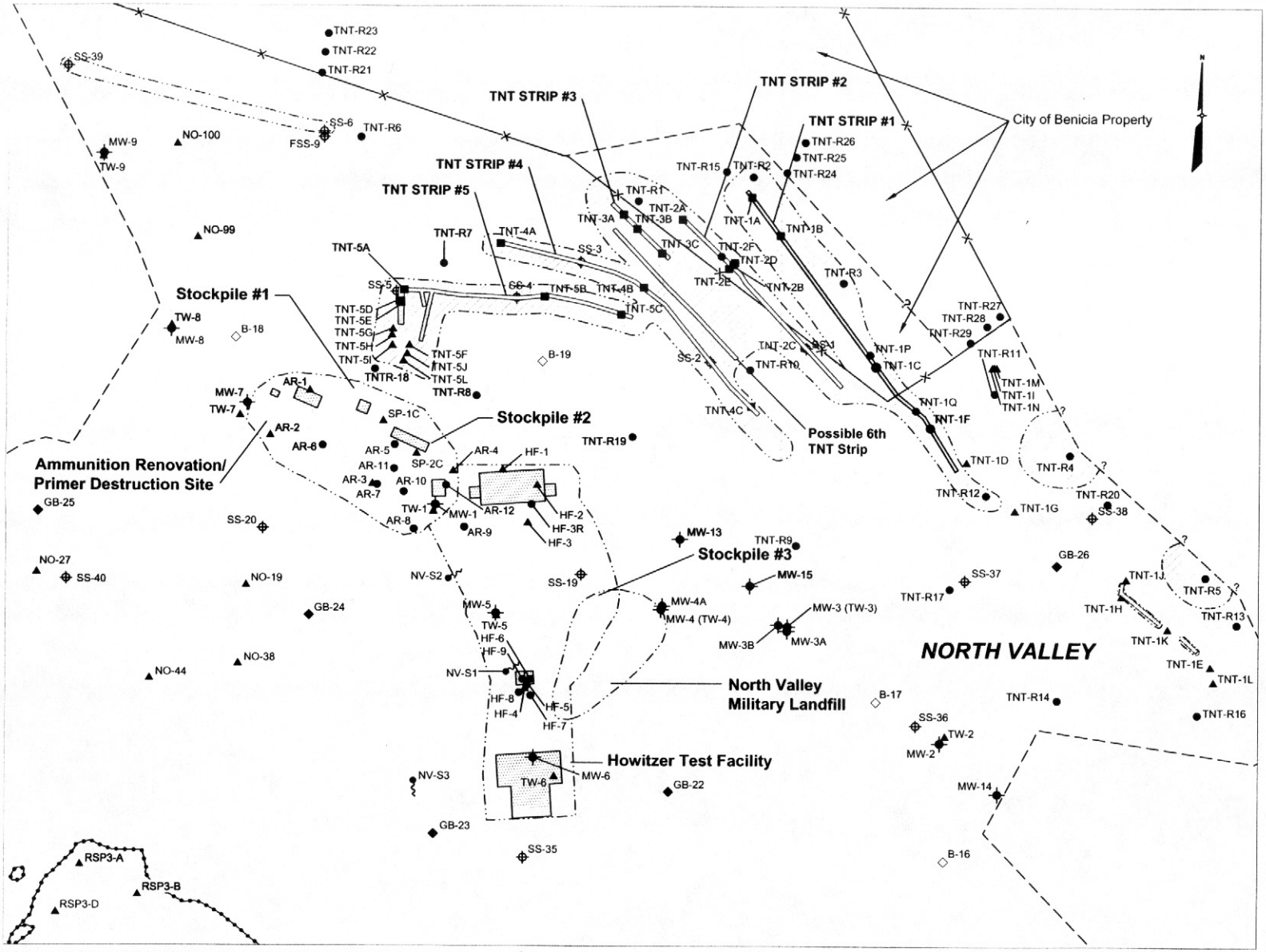
- Area of Interest
- Project Boundary
- Topographic Contour
- Groundwater seep
- Topographic contours as of 3-12-1990 from Bissell & Karn Grading Plan (shown in Dynamite Burn Site area only)
- TNT Strips as seen on aerial photographs dated 7-10-1973
- Fence
- Approximate location of building/structure

Howitzer Test Facility	Operational
Building 181	1945 - 1955
Building 182	1945 - 1955
Building 183	1945 - 1955
Building 540	1957 - ?
Building 542	1958 - ?

Note: Locations of features are approximate based on photointerpretation and historical records.

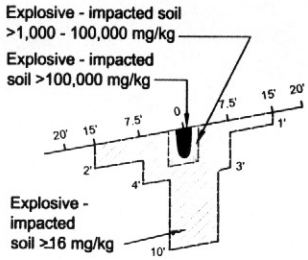
Figure 2-4

Historical Site Features



EXPLANATION

- Area of Interest
- Approximate Location of Former Building/Structure
- Project Boundary



Schematic section through TNT Strips

- Property Boundary
- Previous Sample Location
- Interim Investigation Sample Location
- Interim Investigation Sample Location
- Remedial Investigation Sample Location
- Data Gap Investigation Sample Location
- Groundwater Monitoring Well
- Geotechnical Borehole,
- Geotechnical Borehole
- Interim Investigation Test Pit
- Interim Investigation Seismic Line
- Groundwater Seep

0' 75' 150'
SCALE

Figure 2-6

Estimated Extent of Explosives-Impacted Soil North Valley

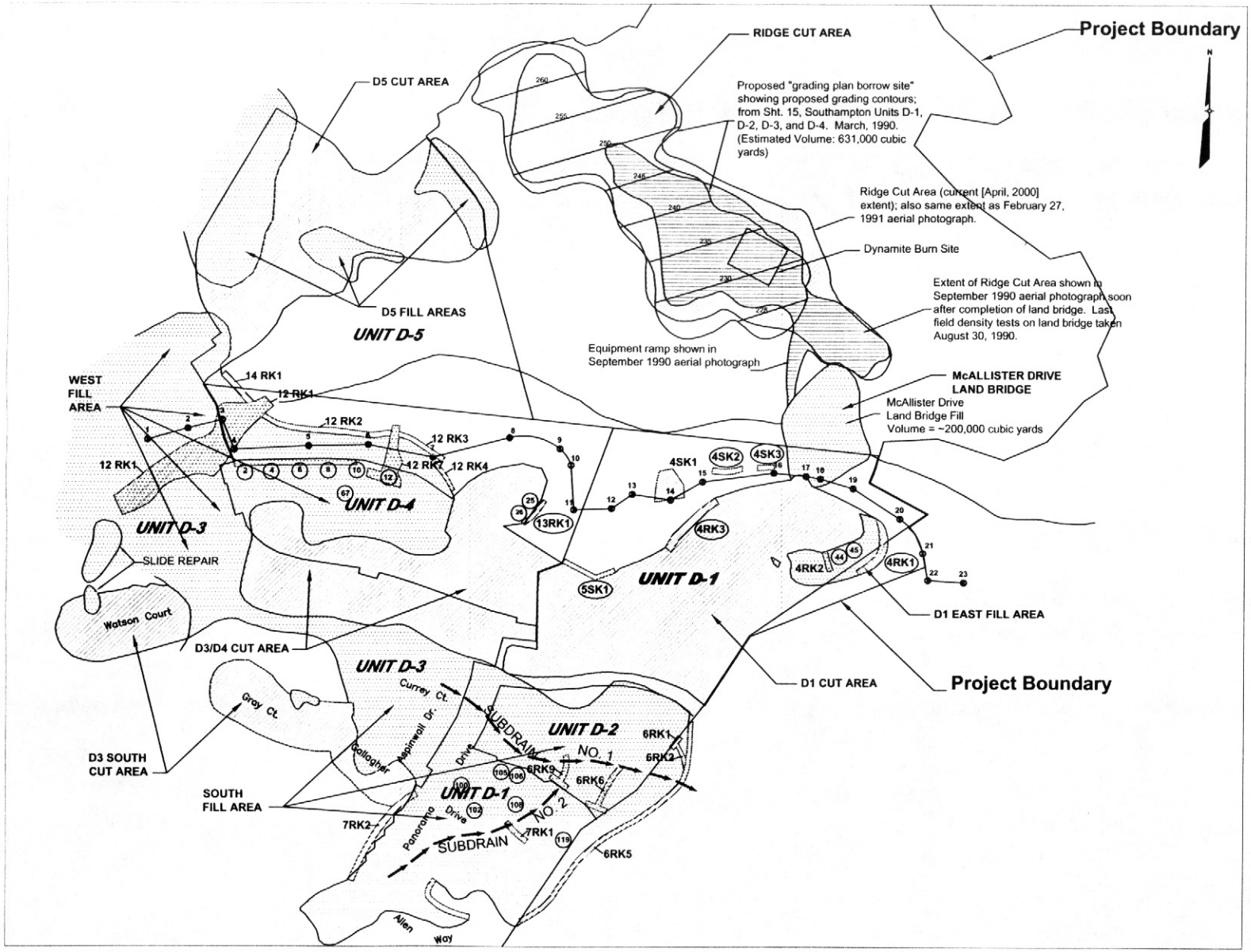
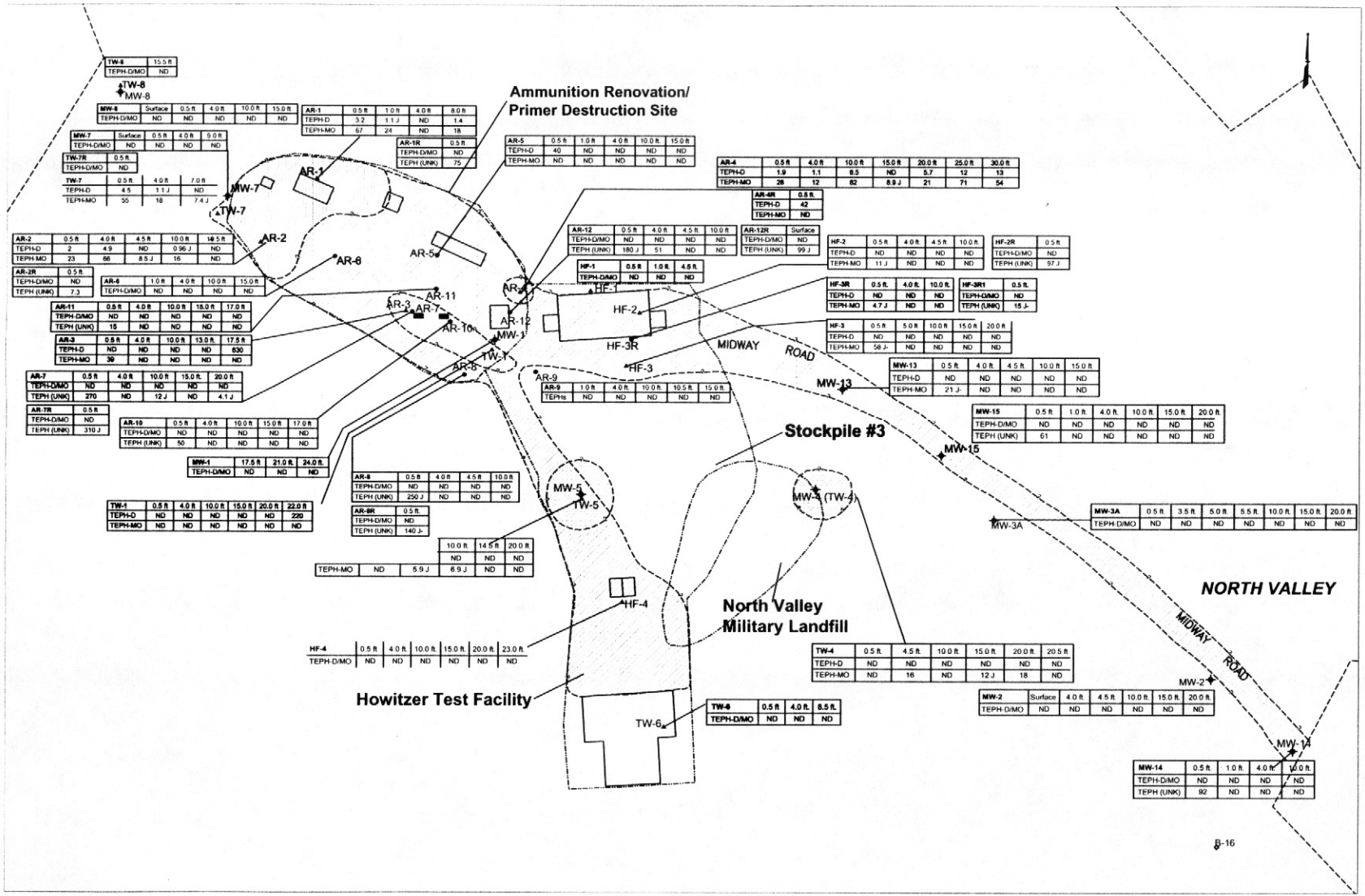


Figure 2-5

Grading Map and Other Features



TW-8	15.5 ft
TEPH-D/MO	ND

MW-8	Surface	0.5 ft	4.0 ft	10.0 ft	15.0 ft
TEPH-D/MO	ND	ND	ND	ND	ND

MW-7	Surface	0.5 ft	4.0 ft	9.0 ft
TEPH-D/MO	ND	ND	ND	ND

TW-7R	0.5 ft
TEPH-D/MO	ND

TW-7	0.5 ft	4.0 ft	7.0 ft
TEPH-D	4.5	1.1 J	ND
TEPH-MO	55	18	7.4 J

AR-1	0.5 ft	1.0 ft	4.0 ft	8.0 ft
TEPH-D	3.2	1.1 J	ND	1.4
TEPH-MO	67	24	ND	18

AR-1R	0.5 ft
TEPH-D/MO	ND
TEPH (UNK)	75

AR-5	0.5 ft	1.0 ft	4.0 ft	10.0 ft	15.0 ft
TEPH-D	40	ND	ND	ND	ND
TEPH-MO	ND	ND	ND	ND	ND

AR-4	0.5 ft	4.0 ft	10.0 ft	15.0 ft	20.0 ft	25.0 ft	30.0 ft
TEPH-D	1.9	1.1	8.5	ND	5.7	12	13
TEPH-MO	28	12	82	8.9 J	21	71	54

AR-4R	0.5 ft.
TEPH-D	42
TEPH-MO	ND

AR-2	0.5 ft	4.0 ft	4.5 ft	10.0 ft	14.5 ft
TEPH-D	2	4.9	ND	0.96 J	ND
TEPH-MO	23	66	8.5 J	16	ND

AR-2R	0.5 ft.
TEPH-D/MO	ND
TEPH (UNK)	7.3

AR-6	1.0 ft	4.0 ft	10.0 ft	15.0 ft
TEPH-D/MO	ND	ND	ND	ND

AR-11	0.5 ft	4.0 ft	10.0 ft	15.0 ft	17.0 ft
TEPH-D/MO	ND	ND	ND	ND	ND
TEPH (UNK)	15	ND	ND	ND	ND

AR-3	0.5 ft	4.0 ft	10.0 ft	13.0 ft	17.5 ft
TEPH-D	ND	ND	ND	ND	630
TEPH-MO	39	ND	ND	ND	ND

AR-7	0.5 ft	4.0 ft	10.0 ft	15.0 ft.	20.0 ft
TEPH-D/MO	ND	ND	ND	ND	ND
TEPH (UNK)	270	ND	12 J	ND	4.1 J

AR-7R	0.5 ft
TEPH-D/MO	ND
TEPH (UNK)	310 J

AR-10	0.5 ft	4.0 ft	10.0 ft	15.0 ft	17.0 ft
TEPH-D/MO	ND	ND	ND	ND	ND
TEPH (UNK)	50	ND	ND	ND	ND

MW-1	17.5 ft	21.0 ft.	24.0 ft.
TEPH-D/MO	ND	ND	ND

TW-1	0.5 ft	4.0 ft	10.0 ft	15.0 ft	20.0 ft	22.0 ft
TEPH-D	ND	ND	ND	ND	ND	220
TEPH-MO	ND	ND	ND	ND	ND	ND

AR-12	0.5 ft	4.0 ft	4.5 ft	10.0 ft
TEPH-D/MO	ND	ND	ND	ND
TEPH (UNK)	180 J	51	ND	ND

AR-12R	Surface
TEPH-D/MO	ND
TEPH (UNK)	99 J

HF-1	0.5 ft	1.0 ft.	4.5 ft.
TEPH-D/MO	ND	ND	ND

HF-2	0.5 ft	4.0 ft.	4.5 ft	10.0 ft.
TEPH-D	ND	ND	ND	ND
TEPH-MO	11 J	ND	ND	ND

HF-2R	0.5 ft
TEPH-D/MO	ND
TEPH (UNK)	97 J

HF-3R	0.5 ft.	4.0 ft.	10.0 ft.
TEPH-D	ND	ND	ND
TEPH-MO	4.7 J	ND	ND

HF-3R1	0.5 ft.
TEPH-D/MO	ND
TEPH (UNK)	15 J-

HF-3	0.5 ft.	5.0 ft	10.0 ft	15.0 ft	20.0 ft
TEPH-D	ND	ND	ND	ND	ND
TEPH-MO	58 J-	ND	ND	ND	ND

MW-13	0.5 ft.	4.0 ft.	4.5 ft.	10.0 ft	15.0 ft
TEPH-D	ND	ND	ND	ND	ND
TEPH-MO	21 J-	ND	ND	ND	ND

AR-9	1.0 ft	4.0 ft.	10.0 ft.	10.5 ft.	15.0 ft.
TEPHs	ND	ND	ND	ND	ND

MW-15	0.5 ft.	1.0 ft.	4.0 ft.	10.0 ft.	15.0 ft.	20.0 ft.
TEPH-D/MO	ND	ND	ND	ND	ND	ND
TEPH (UNK)	61	ND	ND	ND	ND	ND

AR-8	0.5 ft	4.0 ft	4.5 ft	10.0 ft
TEPH-D/MO	ND	ND	ND	ND
TEPH (UNK)	250 J	ND	ND	ND

AR-8R	0.5 ft.
TEPH-D/MO	ND
TEPH (UNK)	140 J-

	10.0 ft	14.5 ft	20.0 ft
	ND	ND	ND
TEPH-MO	ND	5.9 J	6.9 J	ND	ND

MW-3A	0.5 ft	3.5 ft	5.0 ft	5.5 ft	10.0 ft	15.0 ft	20.0 ft
TEPH-D/MO	ND	ND	ND	ND	ND	ND	ND

HF-4	0.5 ft	4.0 ft	10.0 ft	15.0 ft	20.0 ft	23.0 ft
TEPH-D/MO	ND	ND	ND	ND	ND	ND

TW-4	0.5 ft.	4.5 ft.	10.0 ft.	15.0 ft.	20.0 ft.	20.5 ft.
TEPH-D	ND	ND	ND	ND	ND	ND
TEPH-MO	ND	16	ND	12 J	18	ND

TW-6	0.5 ft	4.0 ft.	8.5 ft.
TEPH-D/MO	ND	ND	ND

MW-2	Surface	4.0 ft	4.5 ft	10.0 ft	15.0 ft	20.0 ft
TEPH-D/MO	ND	ND	ND	ND	ND	ND

MW-14	0.5 ft.	1.0 ft.	4.0 ft.	10.0 ft.
TEPH-D/MO	ND	ND	ND	ND
TEPH (UNK)	92	ND	ND	ND

EXPLANATION

- Area of Interest
- Approximate Location of Former Building/Structure
- Estimated extent of soil impacted with petroleum hydrocarbons in motor oil/diesel range and unknown hydrocarbons (less than 1 foot bgs) based on analytical data and the extent of areas where vehicle traffic and parking may have occurred (based on review of aerial photographs)
- Estimated extent of soil impacted with petroleum hydrocarbons in diesel/motor oil range (in excess of 30 feet bgs)
- Estimated extent of soil impacted with petroleum hydrocarbons in diesel range (17.5 feet to 22 feet bgs)
- Estimated extent of soil impacted with petroleum hydrocarbons in motor oil range (up to 10 feet bgs)
- Estimated extent of soil impacted with petroleum hydrocarbons in motor oil range (up to 20 feet bgs)
- Potential underground storage tank (UST)

All analytical data are verified and validated.

Soil results reported on dry weight basis in milligrams per kilogram (mg/kg)

ND = Not detected at specified detection limits

TEPH-D = Total extractable petroleum hydrocarbons reported in diesel range
TEPH-MO = Total extractable petroleum hydrocarbons reported in motor oil range
TEPH (UNK) = Unknown hydrocarbons

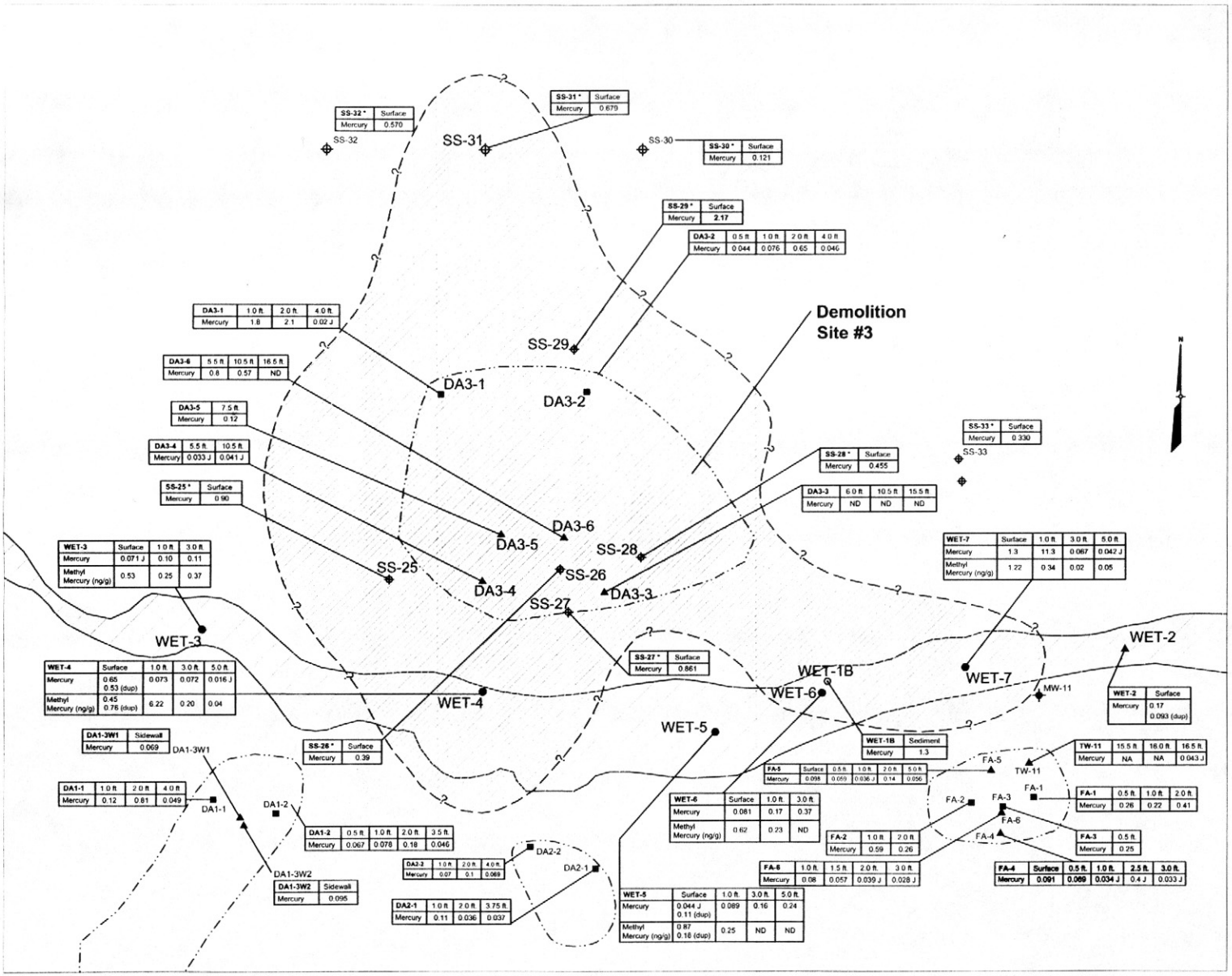
J = Estimated concentration
J+ = Estimated concentration (biased high)
J- = Estimated concentration (biased low)

- Previous Sample Location
- Interim Investigation Sample Location
- Interim Investigation Sample Location
- Remedial Investigation Sample Location
- Data Gap Investigation Sample Location
- Groundwater Monitoring Well
- Geotechnical Borehole, Geotechnical Borehole
- Interim Investigation Test Pit
- Interim Investigation Seismic Line
- Groundwater Seep

0' 25' 50' 100'
SCALE

Figure 2-7

Estimated Extent of Petroleum Hydrocarbon-Impacted Soil North Valley



EXPLANATION

Area of Interest

Estimated Extent of Mercury-Impacted Soil/Sediment (exceeding the Upper Tolerance Limit [UTL] 0.64 mg/kg) (Estimated average depth 3 feet bgs)

Wetland

- SS-20 / SS-20 — Previous Sample Location
- DA3-2 — Interim Investigation Sample Location
- SP3-4 — Interim Investigation Sample Location
- LD-1 — Remedial Investigation Sample Location
- HF-7 / NV-53 — Data Gap Investigation Sample Location
- MW-11 — Groundwater Monitoring Well
- GB-6 — Geotechnical Borehole,
- B-3 — Geotechnical Borehole
- P-4 — Interim Investigation Test Pit
- S-P — Interim Investigation Seismic Line
- Groundwater Seep

All analytical data are verified and validated unless indicated with asterisk (*)

Soil sediment results reported on dry weight basis in milligrams per kilogram (mg/kg) unless otherwise stated.

ng/g nanograms/gram

ND = Not detected at specified detection limits

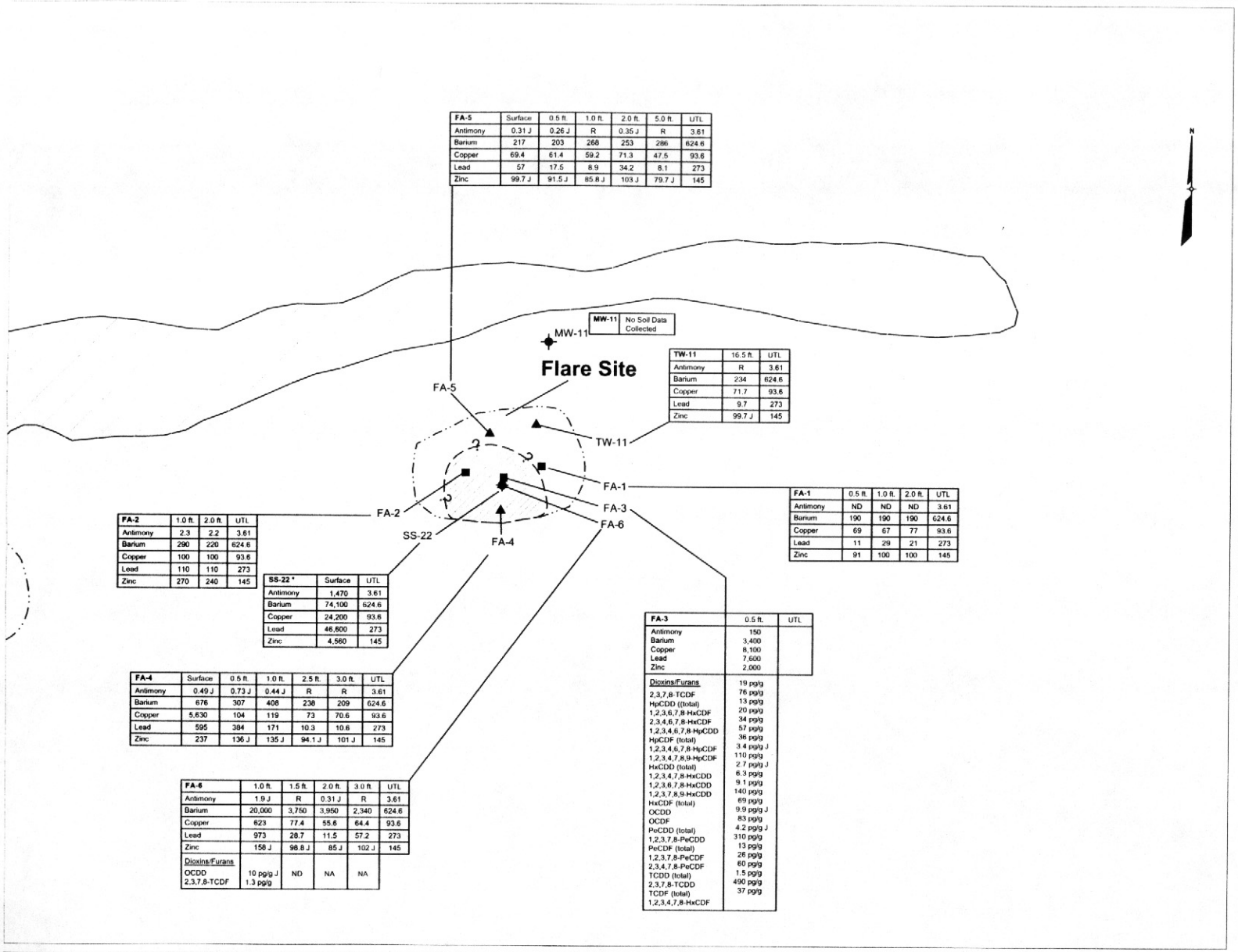
J = Estimated concentration

Only mercury and methyl mercury results listed

0' 30' 60'
SCALE

Figure 2-9

Estimated Extent of Mercury-Impacted Soil/Sediment Demolition Site #3



FA-5	Surface	0.5 ft.	1.0 ft.	2.0 ft.	5.0 ft.	UTL
Antimony	0.31 J	0.26 J	R	0.35 J	R	3.61
Barium	217	203	268	253	286	624.6
Copper	69.4	61.4	59.2	71.3	47.5	93.6
Lead	57	17.5	8.9	34.2	8.1	273
Zinc	99.7 J	91.5 J	85.8 J	103 J	79.7 J	145

MW-11	No Soil Data Collected

TW-11	16.5 ft.	UTL
Antimony	R	3.61
Barium	234	624.6
Copper	71.7	93.6
Lead	9.7	273
Zinc	99.7 J	145

FA-1	0.5 ft.	1.0 ft.	2.0 ft.	UTL
Antimony	ND	ND	ND	3.61
Barium	190	190	190	624.6
Copper	69	67	77	93.6
Lead	11	29	21	273
Zinc	91	100	100	145

FA-2	1.0 ft.	2.0 ft.	UTL
Antimony	2.3	2.2	3.61
Barium	290	220	624.6
Copper	100	100	93.6
Lead	110	110	273
Zinc	270	240	145

SS-22 *	Surface	UTL
Antimony	1,470	3.61
Barium	74,100	624.6
Copper	24,200	93.6
Lead	46,600	273
Zinc	4,560	145

FA-3	0.5 ft.	UTL
Antimony	150	
Barium	3,400	
Copper	8,100	
Lead	7,600	
Zinc	2,000	
Dioxins/Furans		
2,3,7,8-TCDF	19 pg/g	
HpCDD ((total)	76 pg/g	
1,2,3,6,7,8-HxCDF	13 pg/g	
2,3,4,6,7,8-HxCDF	20 pg/g	
1,2,3,4,6,7,8-HpCDD	34 pg/g	
HpCDF (total)	57 pg/g	
1,2,3,4,6,7,8-HpCDF	36 pg/g	
1,2,3,4,7,8,9-HpCDF	3.4 pg/g J	
HxCDD (total)	110 pg/g	
1,2,3,4,7,8-HxCDD	2.7 pg/g J	
1,2,3,6,7,8-HxCDD	6.3 pg/g	
1,2,3,7,8,9-HxCDD	9.1 pg/g	
HxCDF (total)	140 pg/g	
OCDD	69 pg/g	
OCDF	9.9 pg/g J	
PeCDD (total)	83 pg/g	
1,2,3,7,8-PeCDD	4.2 pg/g J	
PeCDF (total)	310 pg/g	
1,2,3,7,8-PeCDF	13 pg/g	
2,3,4,7,8-PeCDF	28 pg/g	
TCDD (total)	60 pg/g	
2,3,7,8-TCDD	1.5 pg/g	
TCDF (total)	490 pg/g	
1,2,3,4,7,8-HxCDF	37 pg/g	

FA-4	Surface	0.5 ft.	1.0 ft.	2.5 ft.	3.0 ft.	UTL
Antimony	0.49 J	0.73 J	0.44 J	R	R	3.61
Barium	676	307	408	238	209	624.6
Copper	5,630	104	119	73	70.6	93.6
Lead	595	384	171	10.3	10.6	273
Zinc	237	136 J	135 J	94.1 J	101 J	145

FA-6	1.0 ft.	1.5 ft.	2.0 ft.	3.0 ft.	UTL
Antimony	1.9 J	R	0.31 J	R	3.61
Barium	20,000	3,750	3,950	2,340	624.6
Copper	623	77.4	55.6	64.4	93.6
Lead	973	28.7	11.5	57.2	273
Zinc	158 J	98.8 J	85 J	102 J	145
Dioxins/Furans					
OCDD	10 pg/g J	ND	NA	NA	
2,3,7,8-TCDF	1.3 pg/g				

EXPLANATION

- Area of Interest
- Estimated Extent of Metals-Impacted Soil (Estimated depth 5 feet bgs)
- Wetland
- FSS-20 / SS-20 — Previous Sample Location
- DA3-2 — Interim Investigation Sample Location
- SP3-4 — Interim Investigation Sample Location
- LB-1 — Remedial Investigation Sample Location
- HF-7 / NV-S3 — Data Gap Investigation Sample Location
- MW-11 — Groundwater Monitoring Well
- GB-6 — Geotechnical Borehole,
- B-3 — Geotechnical Borehole
- P-4 — Interim Investigation Test Pit
- S-P — Interim Investigation Seismic Line
- Groundwater Seep

Soil results reported on dry weight basis in milligrams per kilogram (mg/kg) unless otherwise stated.

ND = Not detected at specified detection limits listed

pg/g = Picograms per gram

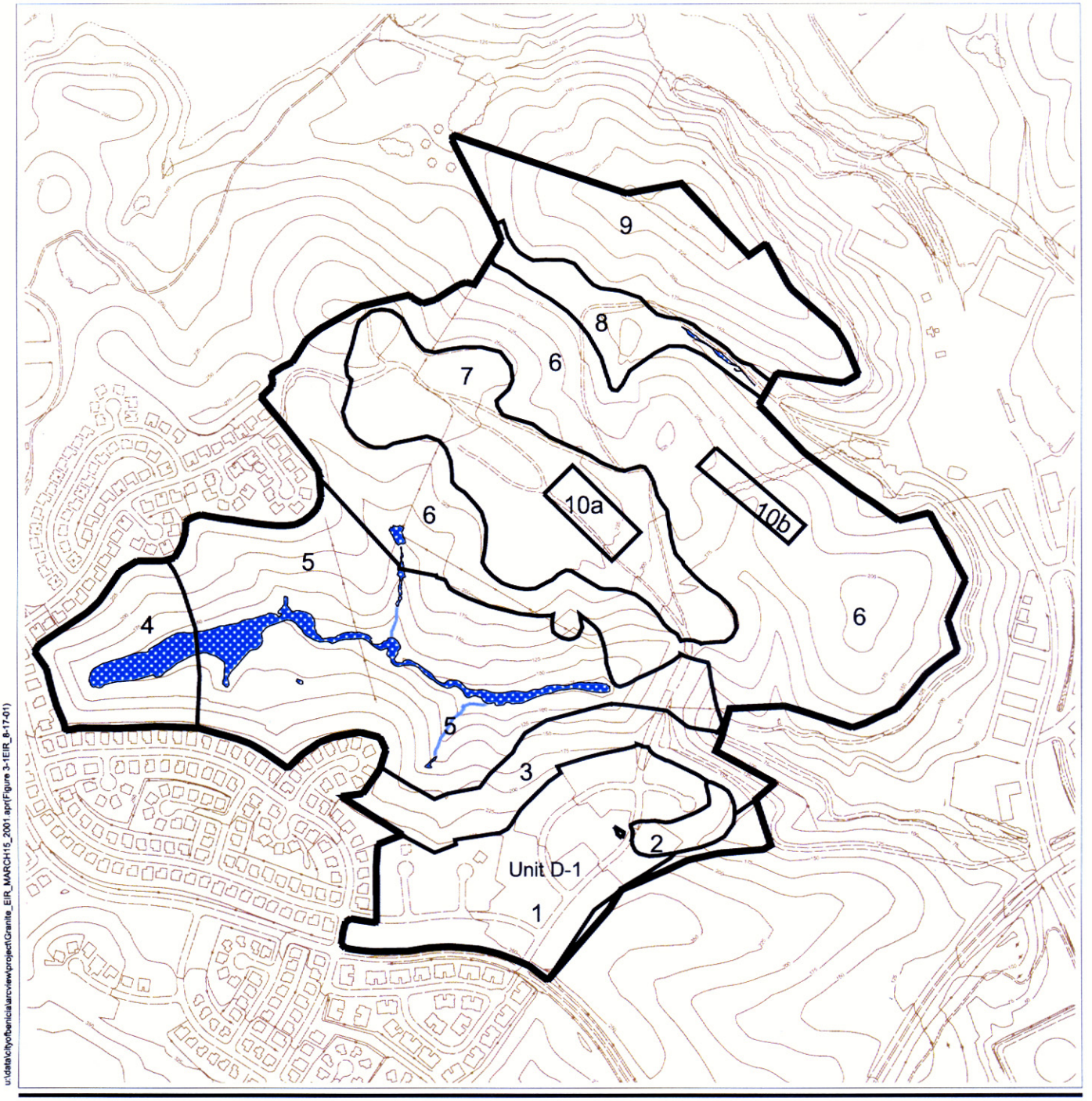
HpCDF = Heptachlorodibenzo furan
HpCDD = Heptachlorodibenzo-p-dioxin
HxCDF = Hexachlorodibenzo furan
HxCDD = Hexachlorodibenzo-p-dioxin
OCDD = Octachlorodibenzo-p-dioxin
OCDF = Octachlorodibenzo furan
PeCDD = Pentachlorodibenzo-p-dioxin
PeCDF = Pentachlorodibenzo furan
TCDD = Tetrachlorodibenzo-p-dioxin
TCDF = Tetrachlorodibenzo furan

J = Estimated trace concentration
R = Results rejected during data verification/validation
UTL = Upper Tolerance Limit

0' 25' 50'
SCALE

Figure 2-8

Estimated Extent of Metals-Impacted Soil Flare Site



u:\data\cityofbenicia\arcview\project\Granite_EIR_MARCH15_2001.apr(Figure 3-1EIR_8-17-01)

EXPLANATION

- Project Site Boundary
- Sector Boundaries
- Wetlands
- Jurisdictional Waters

375 0 375 750 Feet

Project Site Sector Locations

Figure 3-1

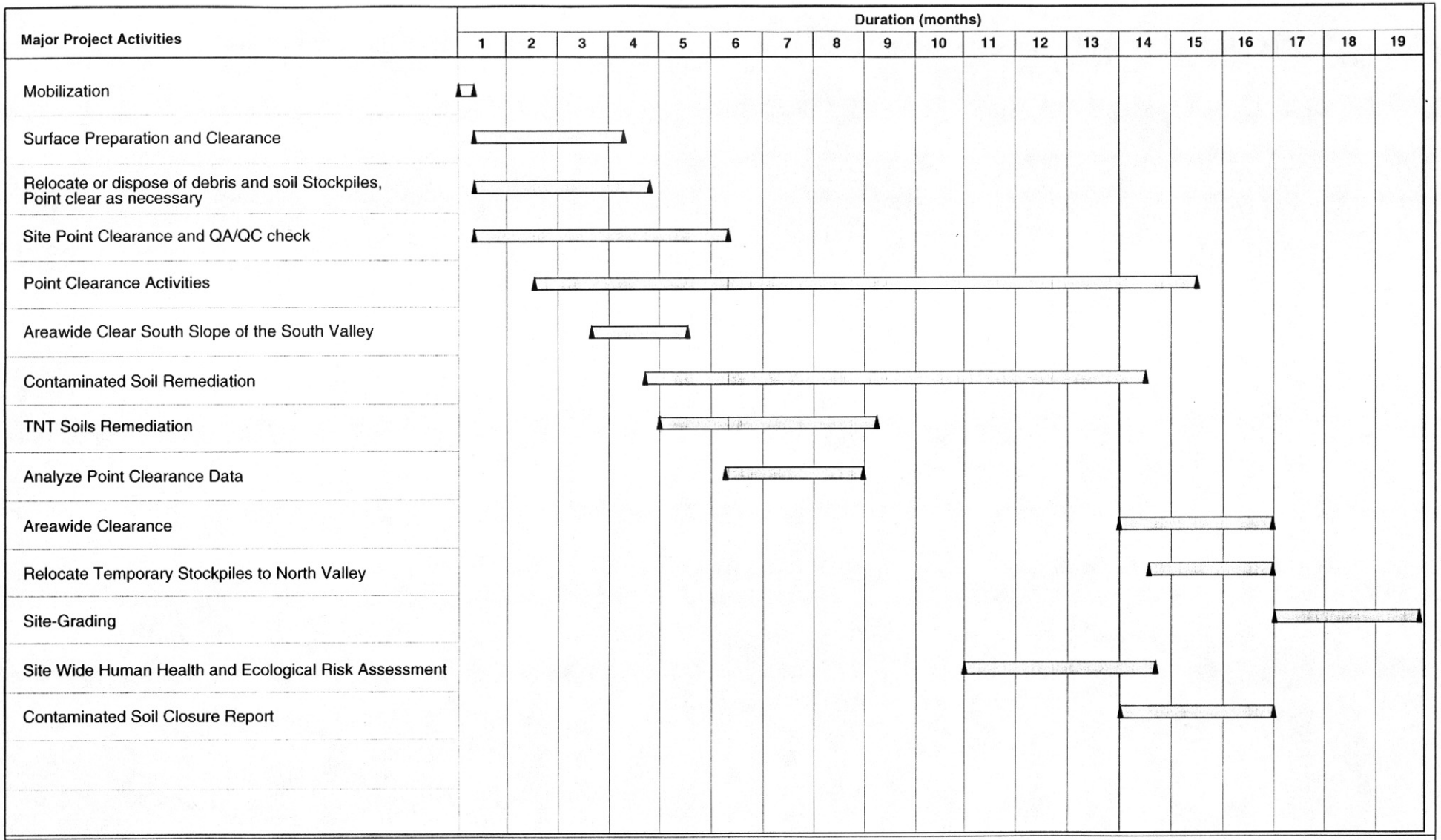
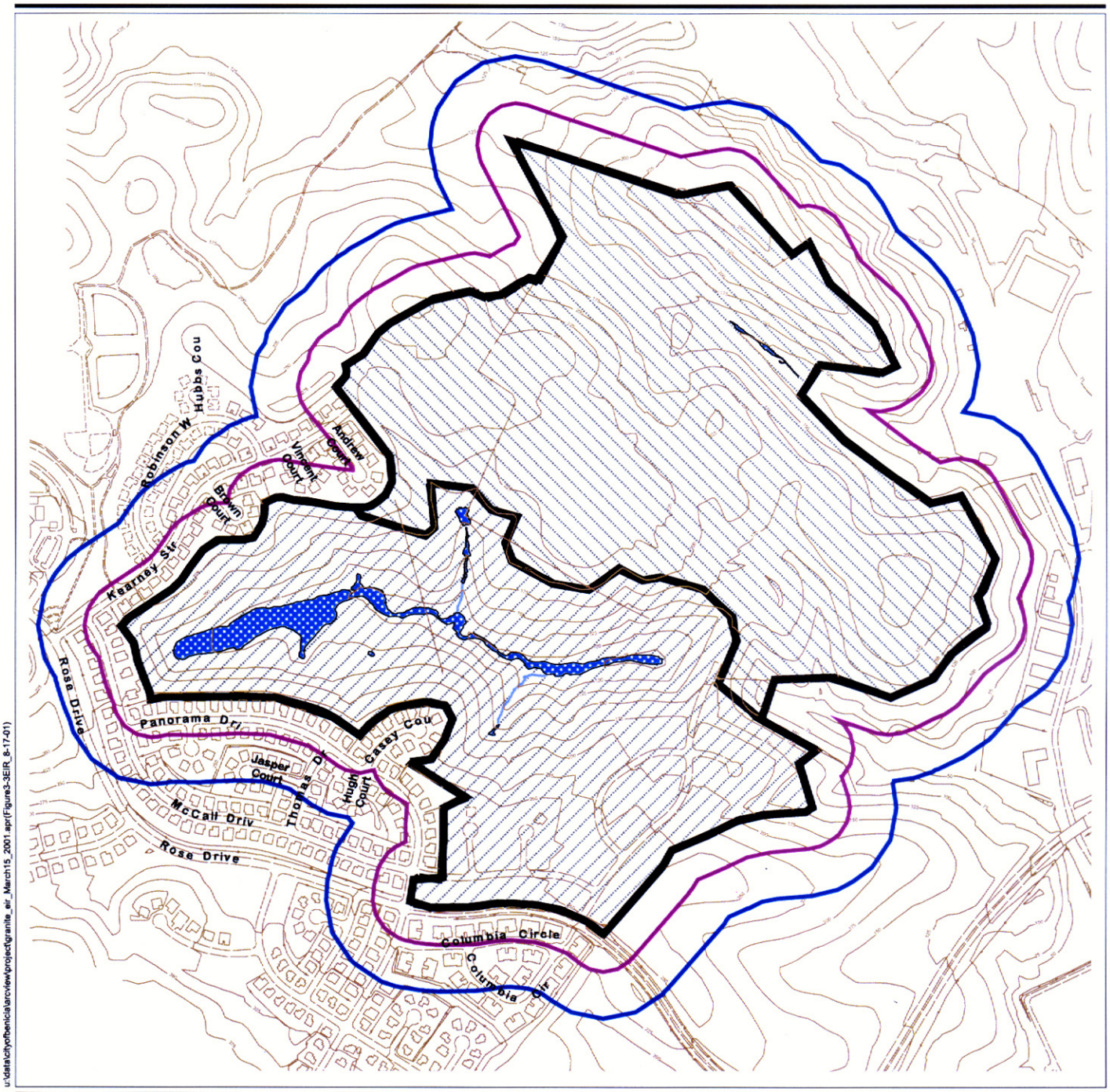


Figure 3-2
Time-Phased Schedule for
Completion of Project Activities

BenciaEIR/002



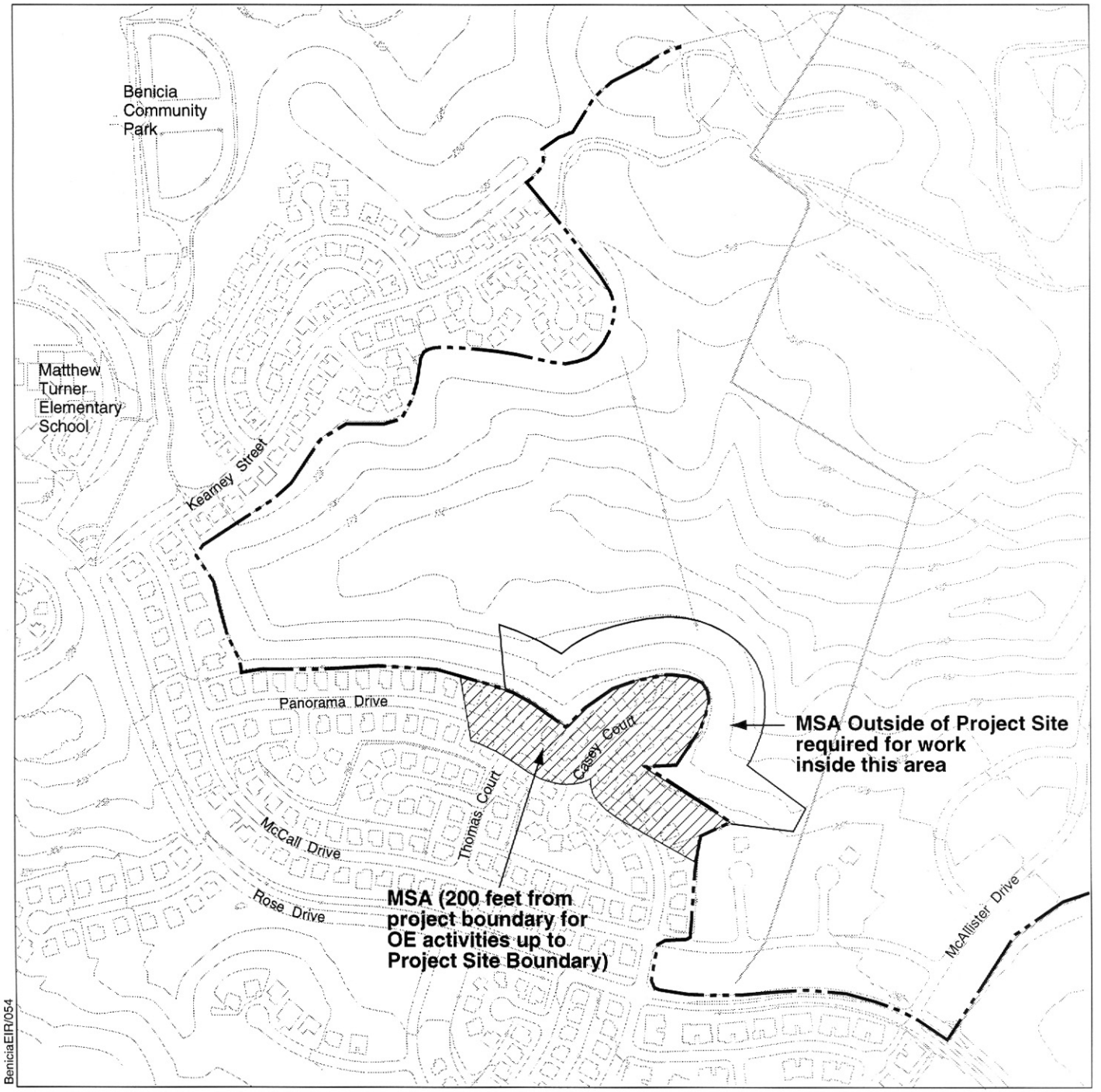
EXPLANATION

- Project Site Boundary
- 37mm Projectile MPM
- 60mm Projectile MPM
- Wetlands
- Jurisdictional Waters
- 200 Foot MSD
- 450 Foot MSD

400 0 400 800 Feet

Project Site Minimum Separation Distance (MSD)

Figure 3-3



EXPLANATION

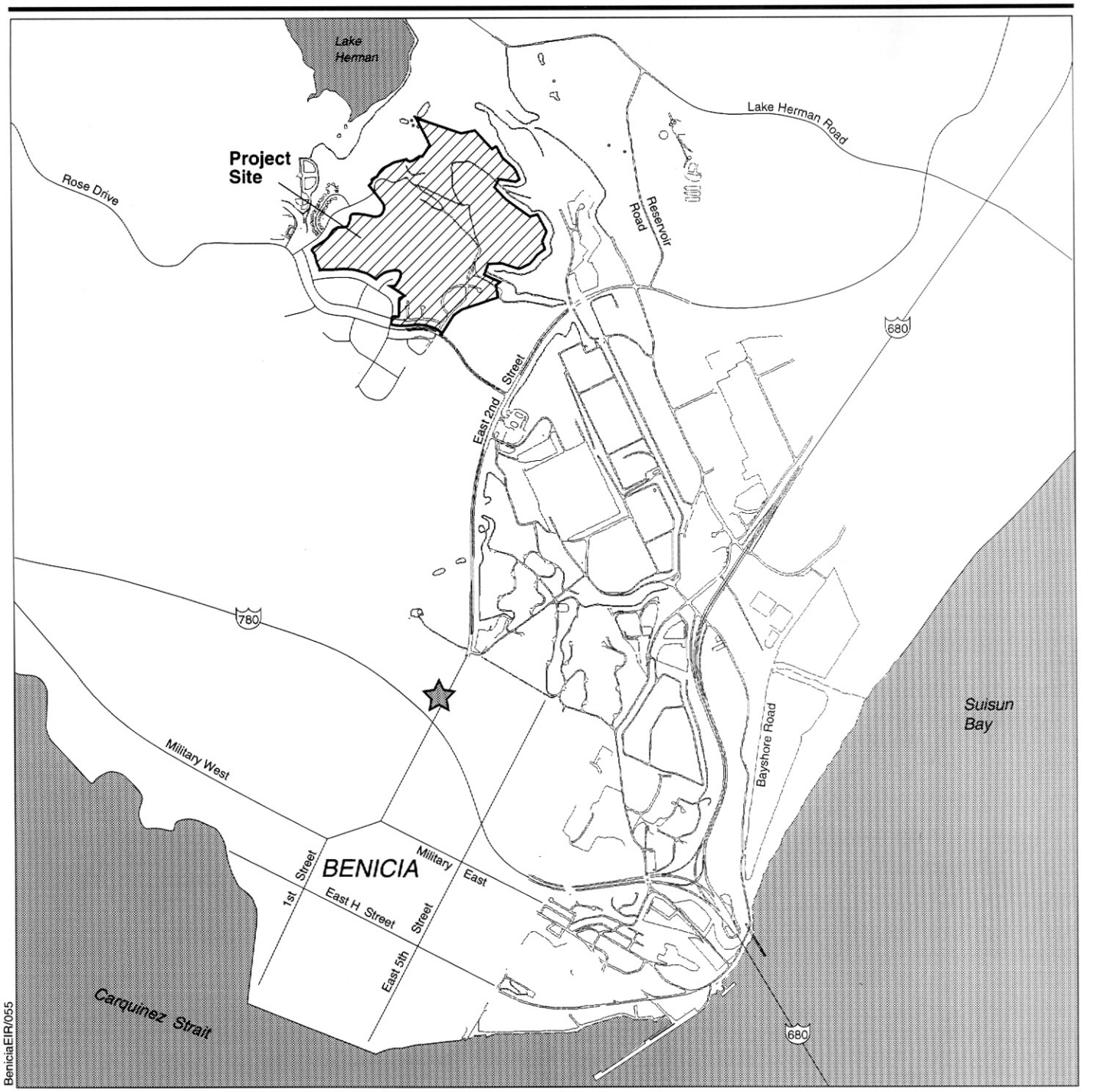
Project Site Boundary

Typical Daily MSA
(Based on a 200 foot Minimum Separation Distance)

Typical Daily Minimum Separation Area (MSA)

0 125 250 500 Feet

Figure 3-4



EXPLANATION

680 Interstate Highway

Project Site

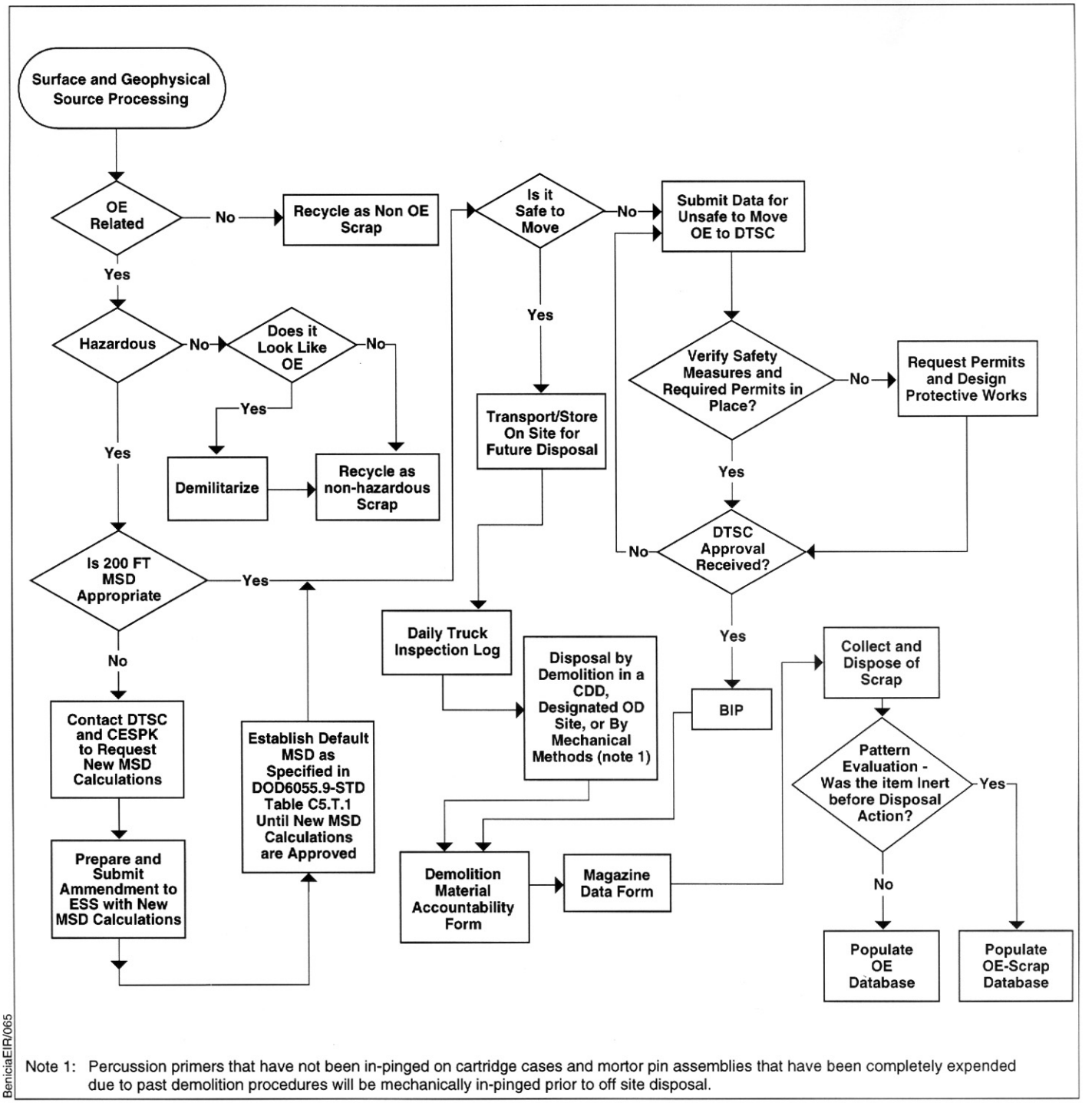
Hospitality Center Best Western

0 .125 .25 .5 Mile

Hospitality Center

Best Western
1955 E. Second Street
Benicia, CA 94510-2201

Figure 3-5



Note 1: Percussion primers that have not been in-pinged on cartridge cases and mortor pin assemblies that have been completely expended due to past demolition procedures will be mechanically in-pinged prior to off site disposal.

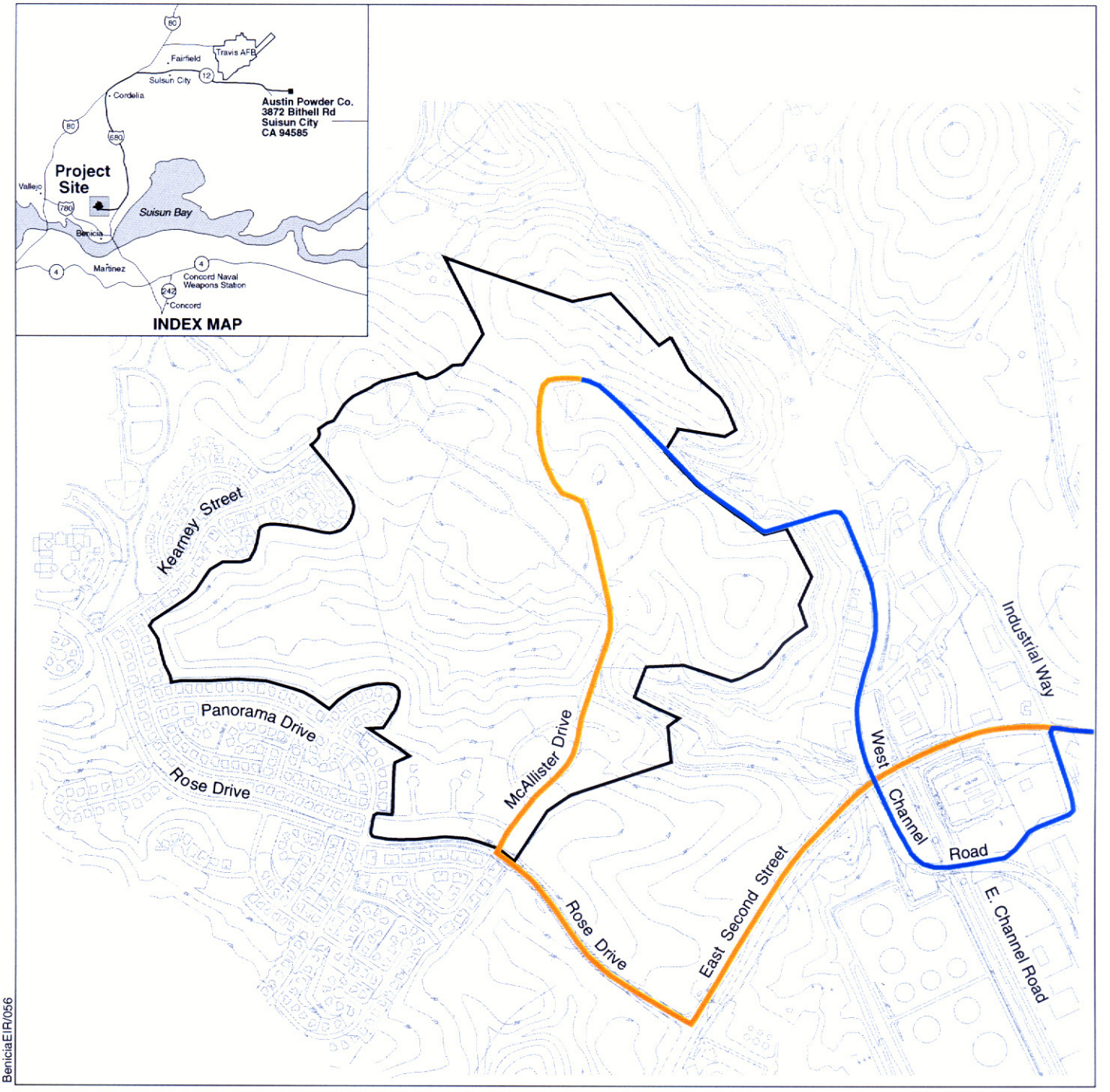
BeniciaEIR/065

EXPLANATION

BIP	Blow in Place
CDD	Contained Demolition Device
CESPK	U.S. Army Corps of Engineers, Sacramento District
DEMIL	Demilitarization (to render unusable)
DTSC	Department of Toxic Substance Control
ESS	Explosive Safety Submittal
FT	Feet
MSD	Minimum Separation Distance
OD	Open Detonation
OE	Ordnance and Explosives

OE Process Flowchart

Figure 3-6



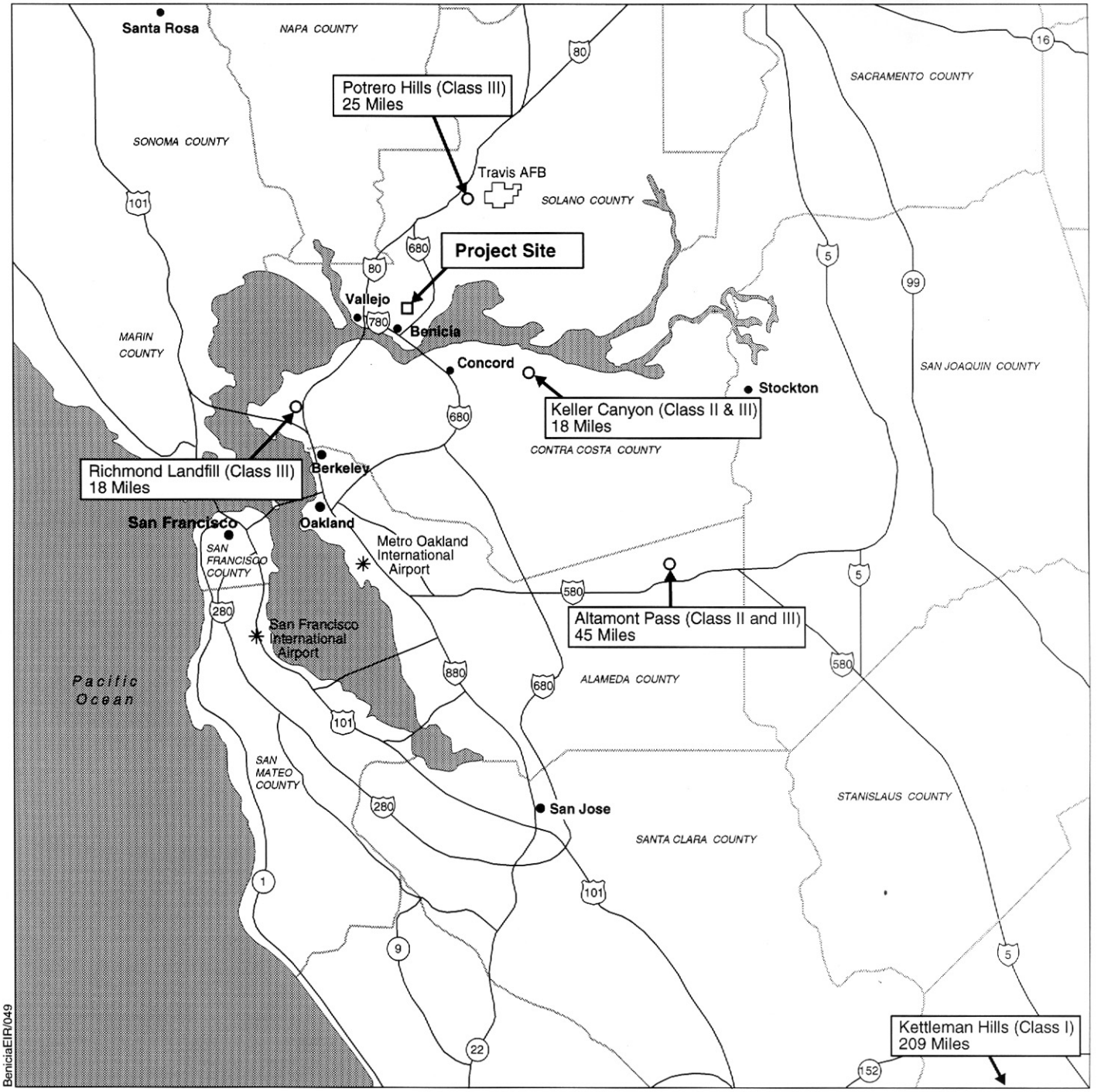
EXPLANATION

- Project Site Boundary
- Route for Explosives Transport
- Alternate Route for Explosives Transport

Route for Explosives Transport

0 250 500 1000 Feet

Figure 3-7



EXPLANATION

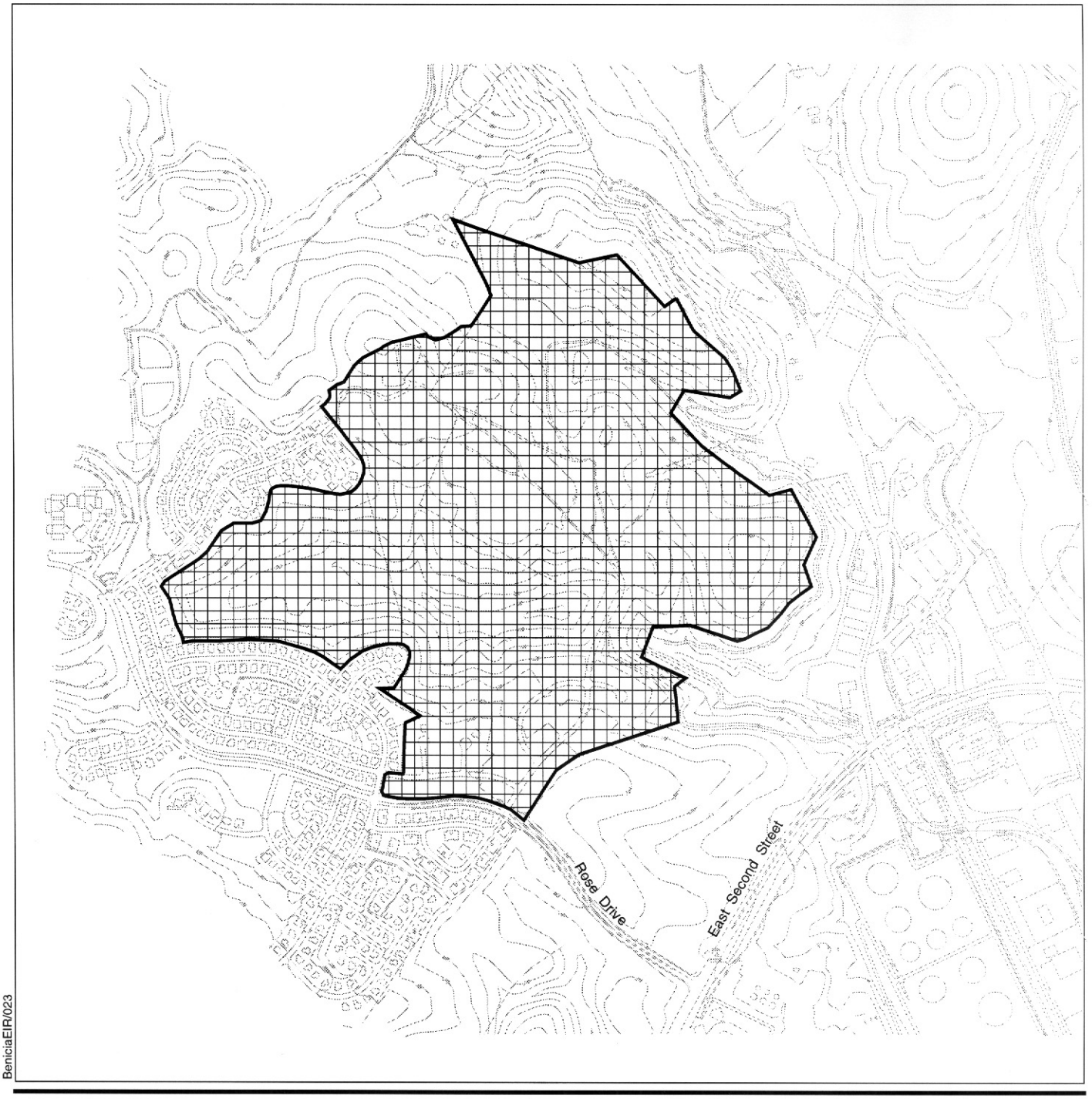
- ✳ Airports
- (99) California State Highway
- (101) U.S. Highway
- (280) Interstate Highway
- County Boundary

0 4 8 16 Miles

Notes: ECDC Facility, East Center, Utah not shown
Distances shown are from Project Site

Location of Permitted Landfills

Figure 3-8



BeniciaEIR/023

EXPLANATION

Project Site Boundary

100 x 100 foot grid

Sample Site Grid Map

0 250 500 1000 Feet

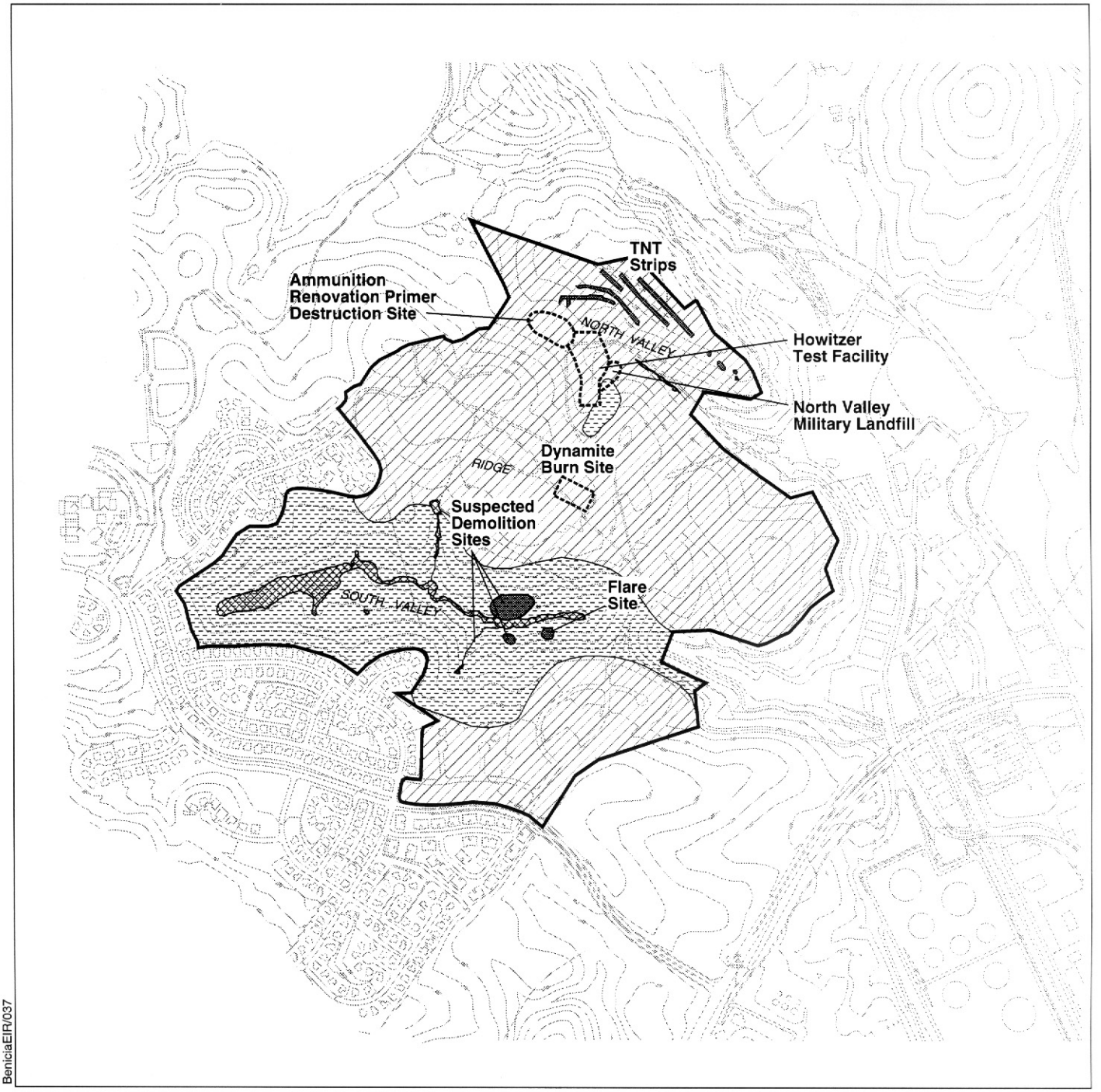
Note: Contour interval equals 25 feet.

Figure 3-9

BeniciaEIR/036

Multisensor Towed Array Detection System (MTADS)

Figure 3-10



BeniciaEIR/037

EXPLANATION

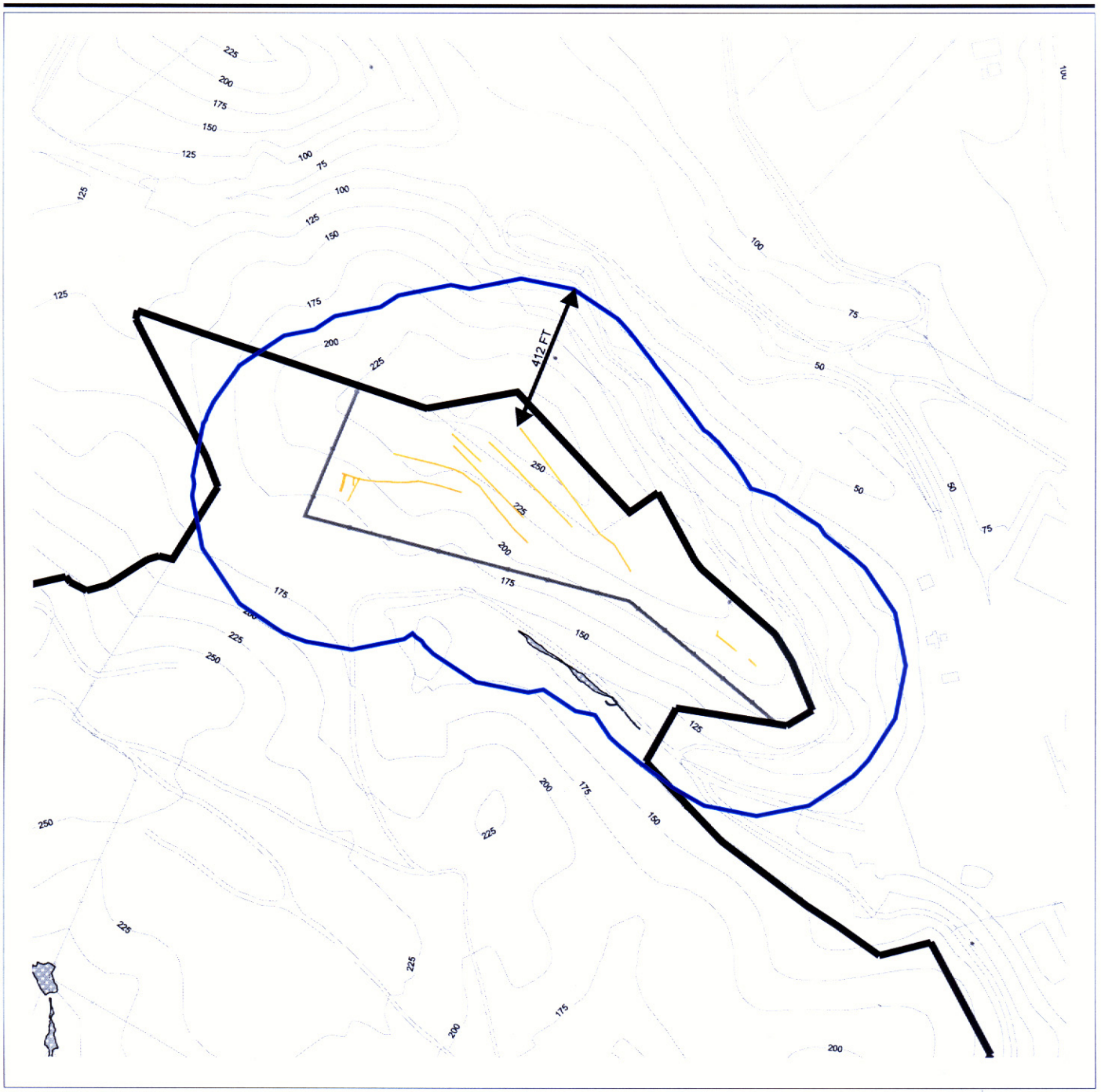
- Project Site Boundary
- Wetland
- Approximate Area to be Mapped with MTADS
- Approximate Area to be Mapped with Man Portable Adjunct (MPA) MTADS
- Jurisdictional Waters

Approximate Areas to be Mapped with MTADS

0 250 500 1000 Feet

Notes: Contour interval equals 25 feet.
MTADS = Multisensor Towed Array Detection System

Figure 3-11



u:\data\cityofbenicia\arcview\project\Granite_EIR_March15_2001.apr(Figure3-12EIR_8-17-01)

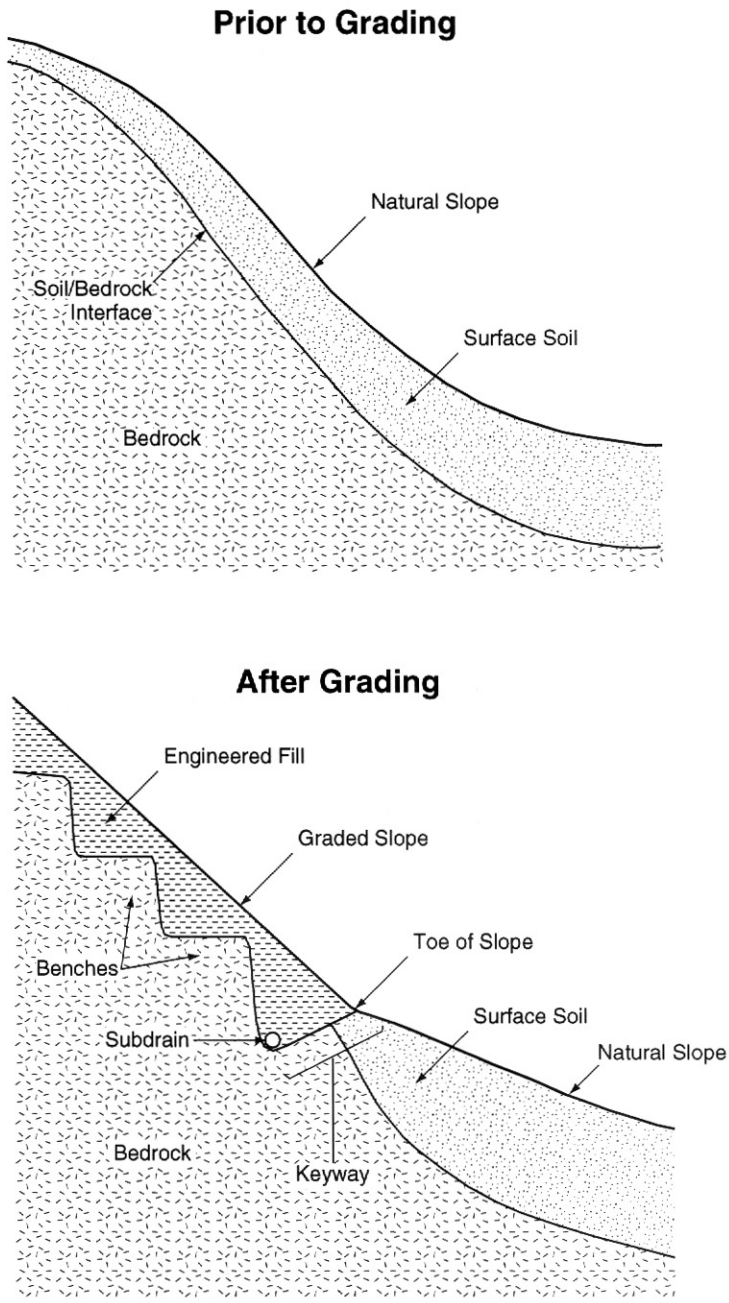
EXPLANATION

- Project Site Boundary
- TNT Strips
- 412 Foot MSD

225 0 225 450 Feet

Minimum Separation Distance Associated with TNT Strips Remediation

Figure 3-12



BeniciaEIR/030

EXPLANATION

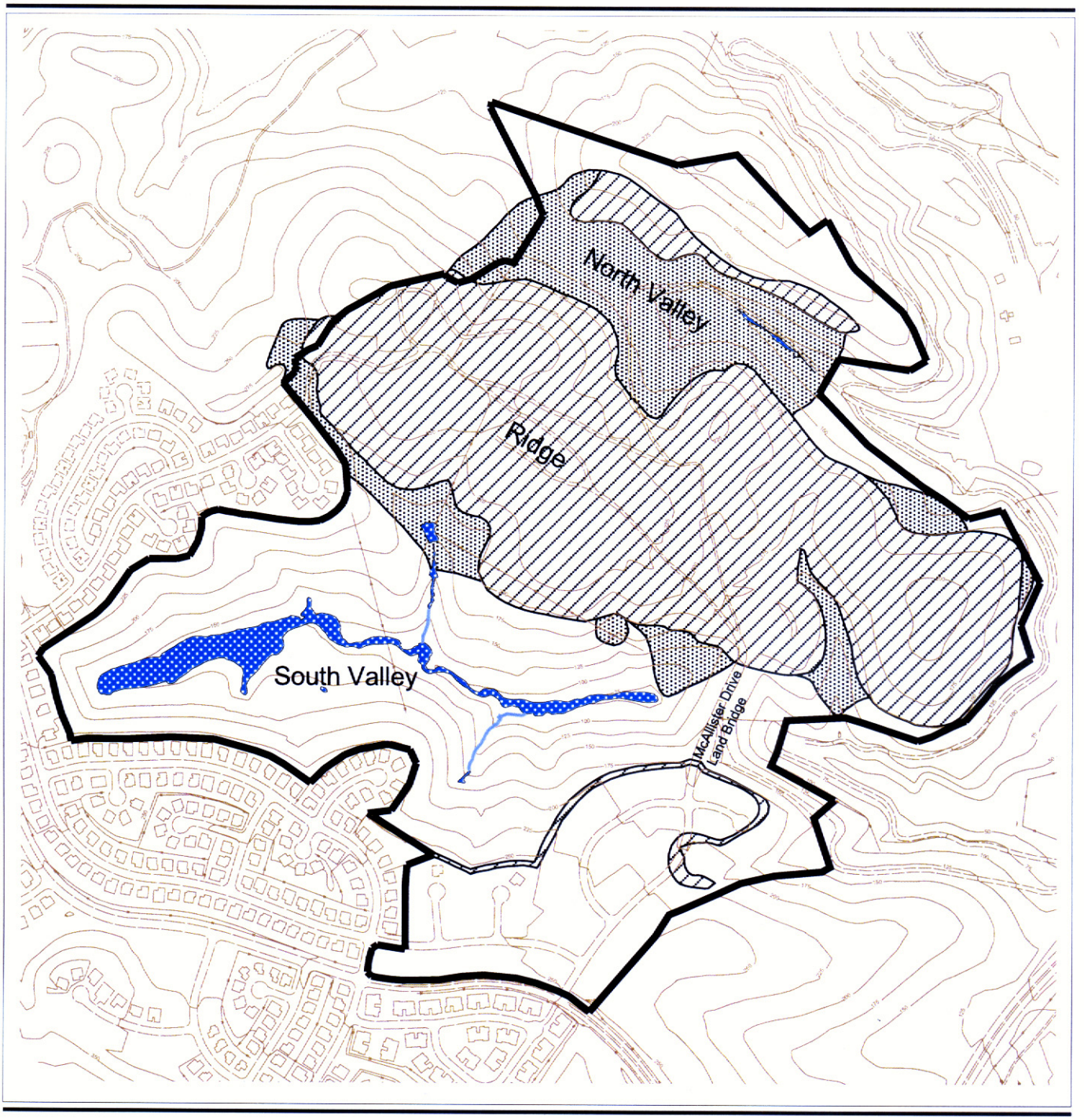
- Bedrock
- Surface Soil
- Engineered Fill

Generic Illustration of Grading Terms Used in this Document

Not to Scale

Note: For illustration purposes only. This figure does not represent any actual grading plan.

Figure 3-13



u:\data\cityofbenicia\arcview\project\Granite_EIR_MARCH15_2001.apr(Figure 3-14 EIR_8-17-01)

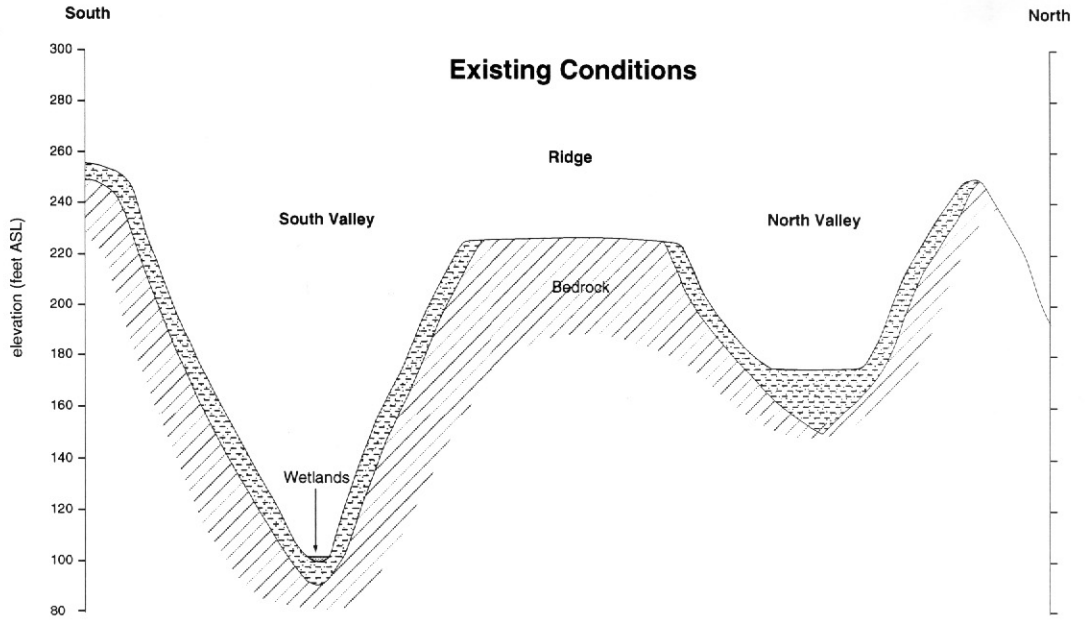
EXPLANATION

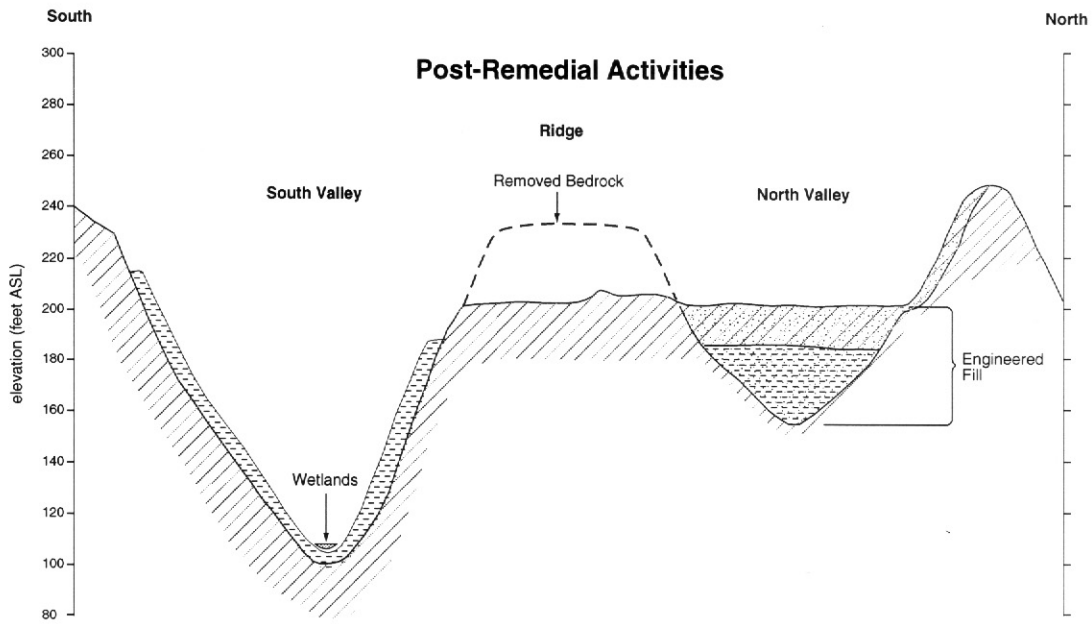
- Project Site Boundary
- Cut
- Fill
- Wetlands
- Jurisdictional Waters

350 0 350 700 Feet

Areal Extent of Proposed Cut and Fill Operations

Figure 3-14





BeniciaEIR/025

EXPLANATION

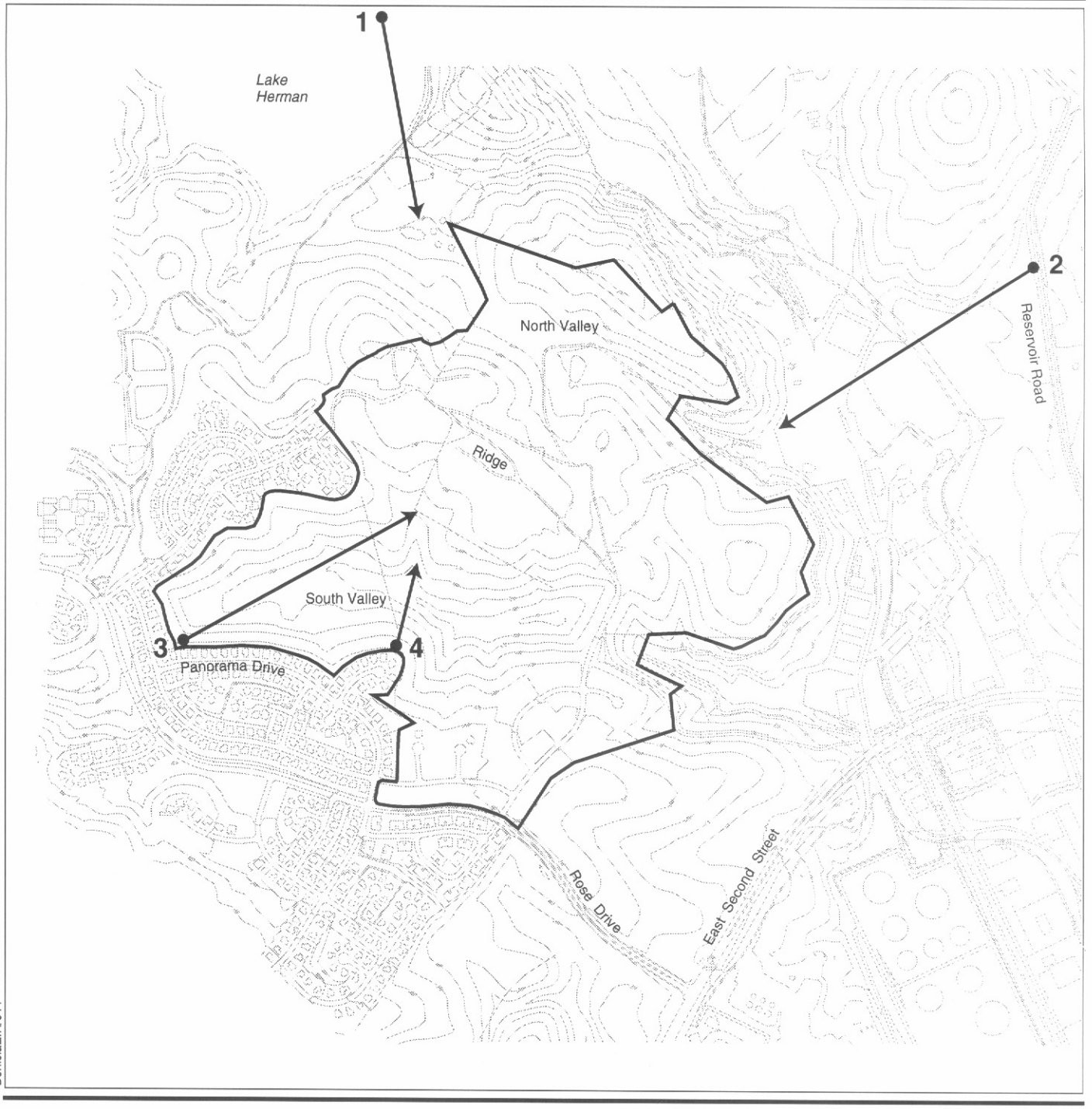
- Bedrock
- Crushed Bedrock
- Surface Soils

Approximate Horizontal Scale 0 200 400 Feet

Approximate Vertical Scale 0 20 40 Feet

Typical Site Cross-Sections

Figure 3-15



EXPLANATION

- Project Site Boundary
- Direction of View
- Observation Point

Observation Point Location Map

0 250 500 1000 Feet

Figure 4-1

Photo 4-2. Simulation of view from Lake Herman (Observation Point 1) after completion of grading. Dash line indicates area of change.

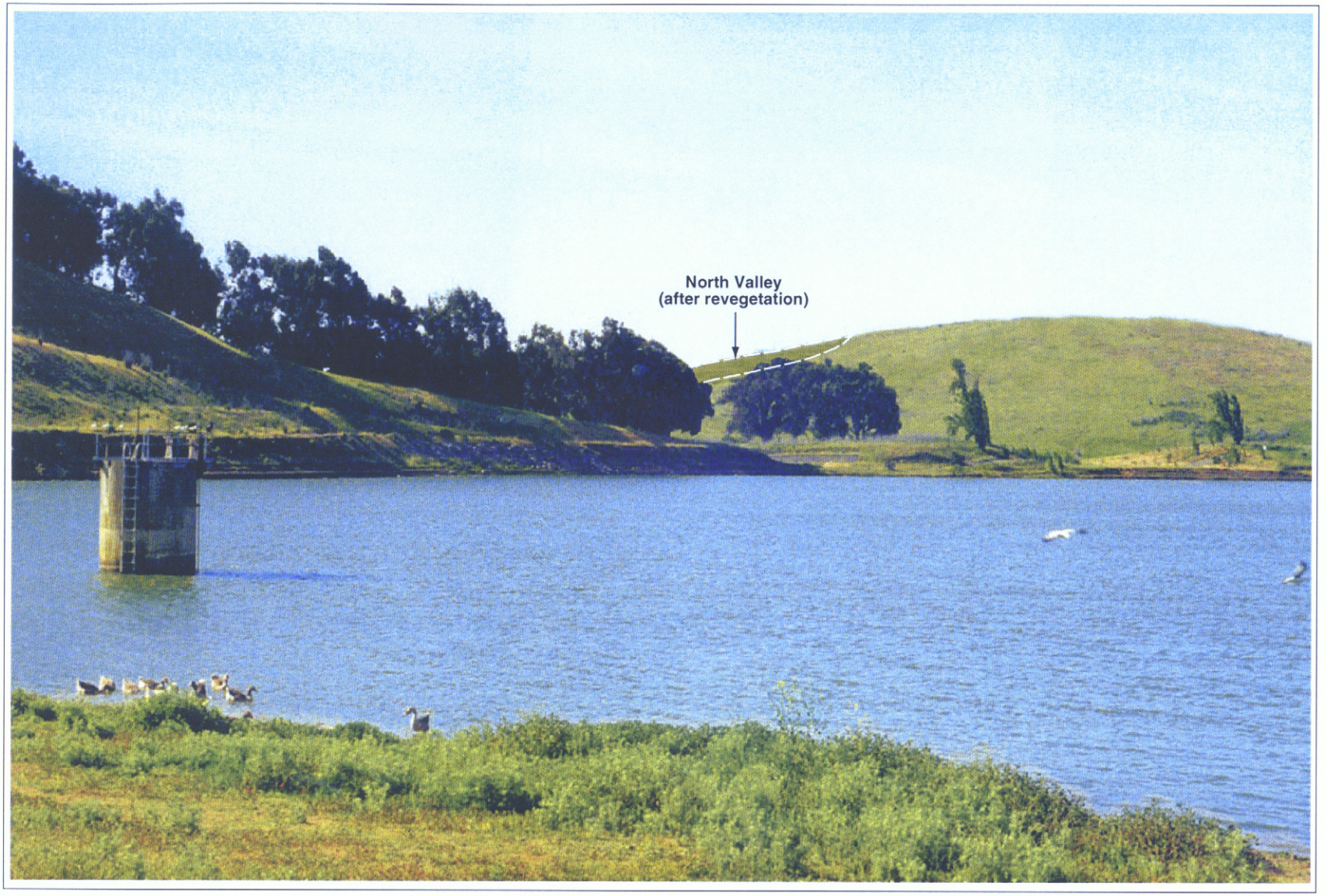


Photo 4-3. Simulation of view from Lake Herman (Observation Point 1) after completion of revegetation. Dash line indicates area of change.

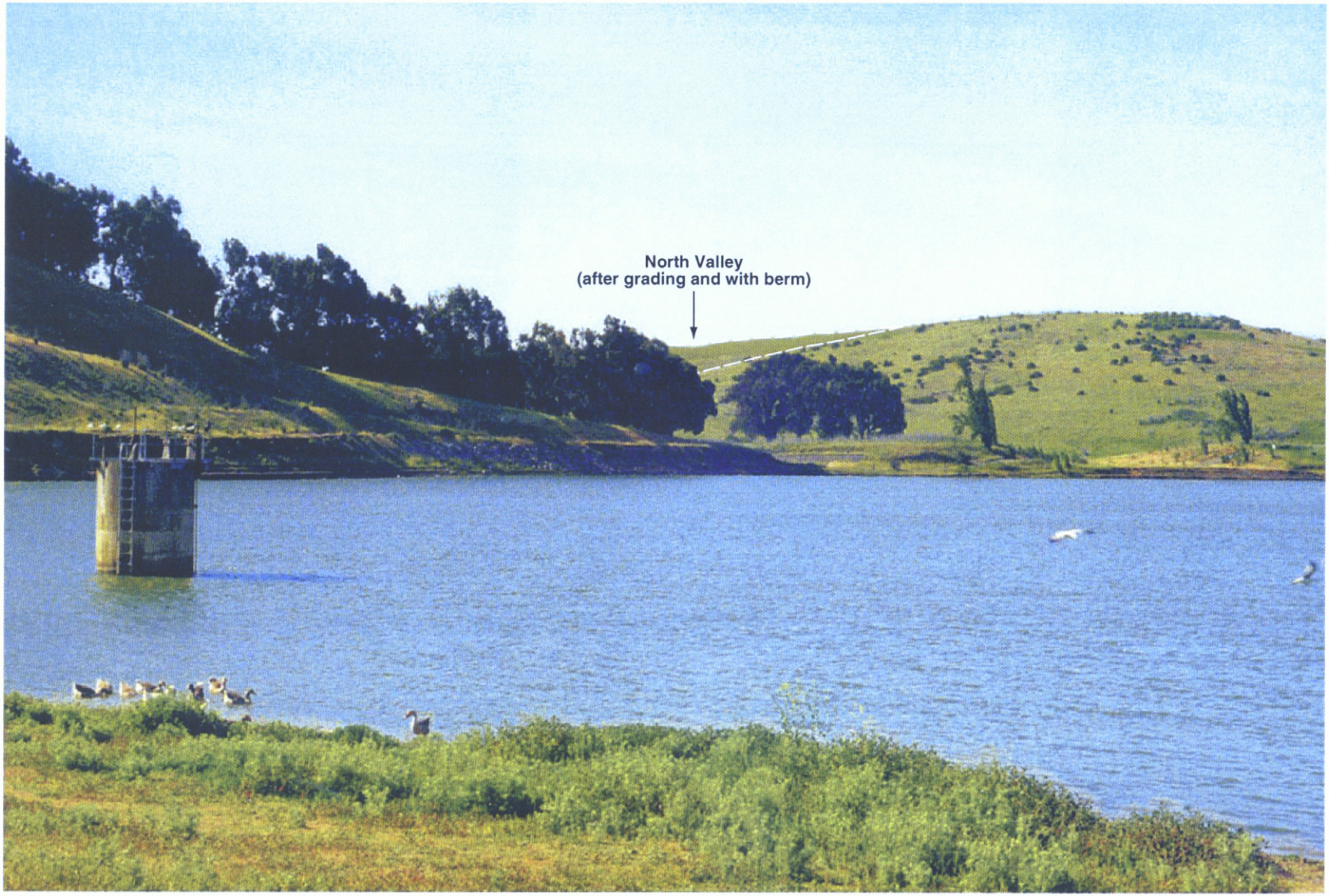


Photo 4-4. Simulation of view from Lake Herman (Observation Point 1) with incorporation of a berm after completion of revegetation. Dash line indicates area of change.

Photo 4-5. Existing view from Reservoir Road (Observation Point 2). Dash line indicates current outline of Ridge.

Photo 4-6. Simulation of view from Reservoir Road (Observation Point 2) after completion of grading. Dash line indicates area of change.

Photo 4-7. Simulation of view from Reservoir Road (Observation Point 2) completion of revegetation.

Photo 4-8. Existing view from hiking/biking trail (Observation Point 3). Dash line indicates current outline of Ridge.

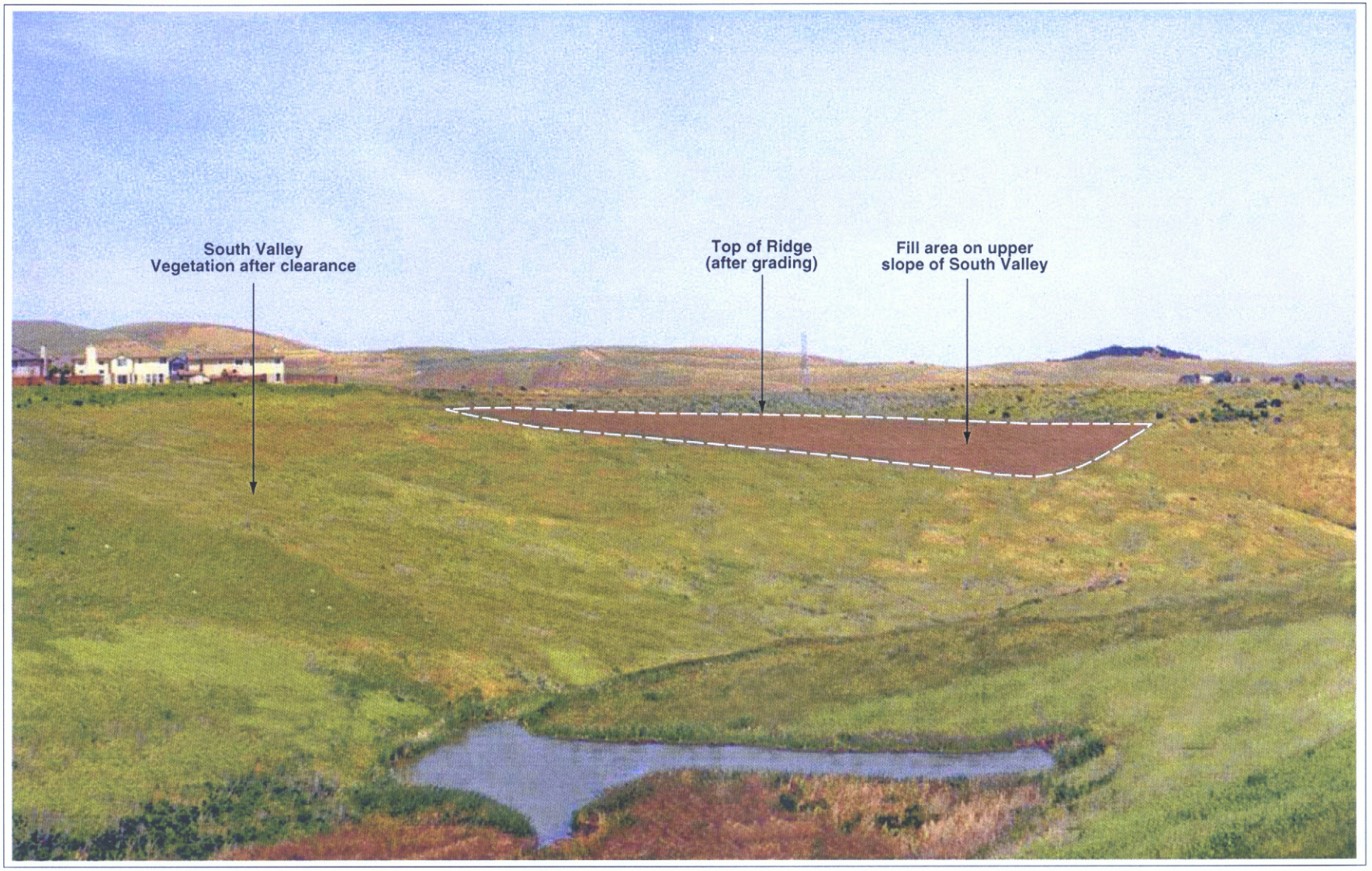


Photo 4-9. Simulation of view from hiking/biking trail (Observation Point 3) after completion of grading. Dash line indicates area of change.

Photo 4-10. Simulation of view from hiking/biking trail (Observation Point 3) after completion of revegetation.

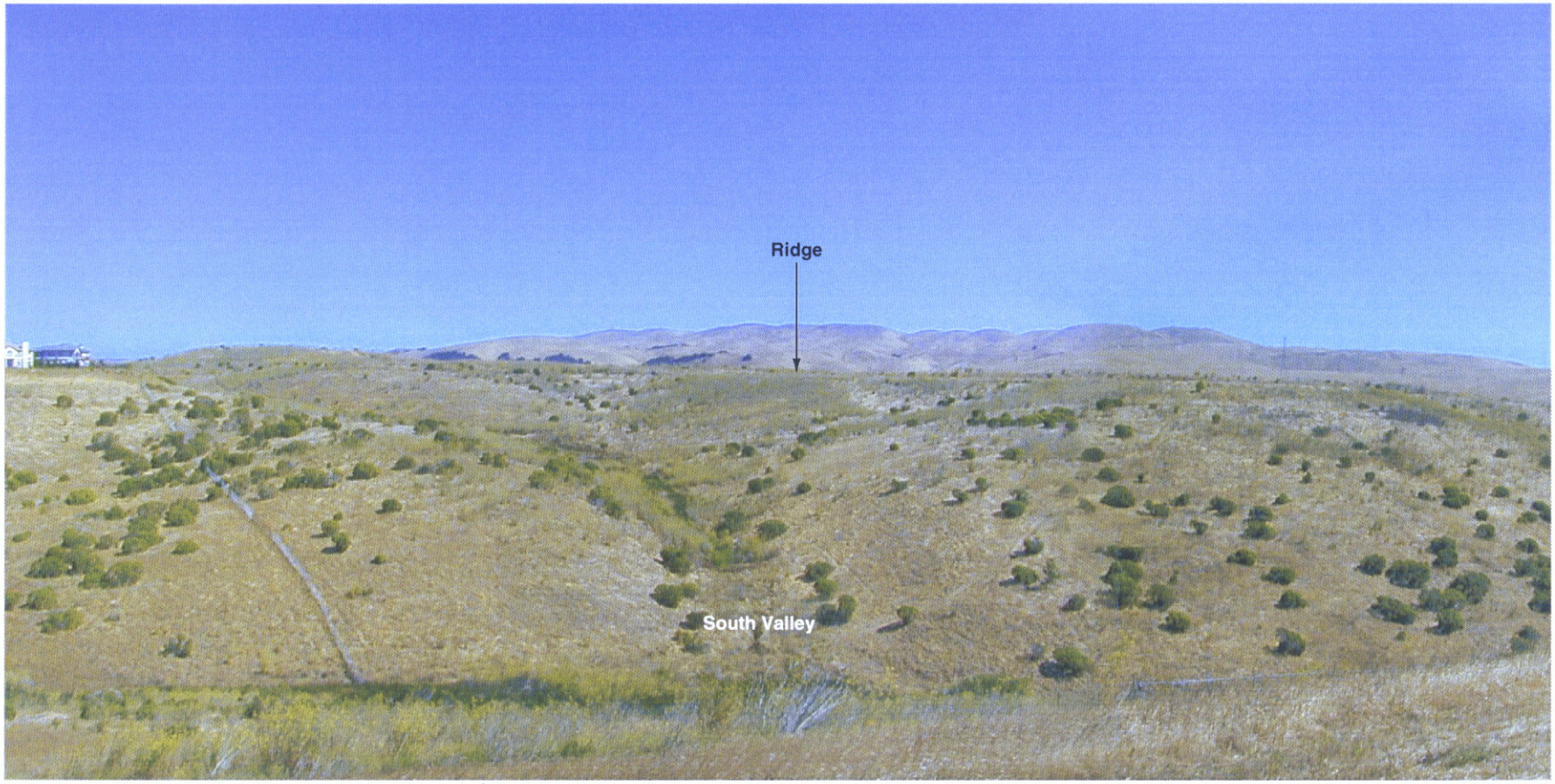


Photo 4-11. Existing view from end of Casey Court (Observation Point 4).

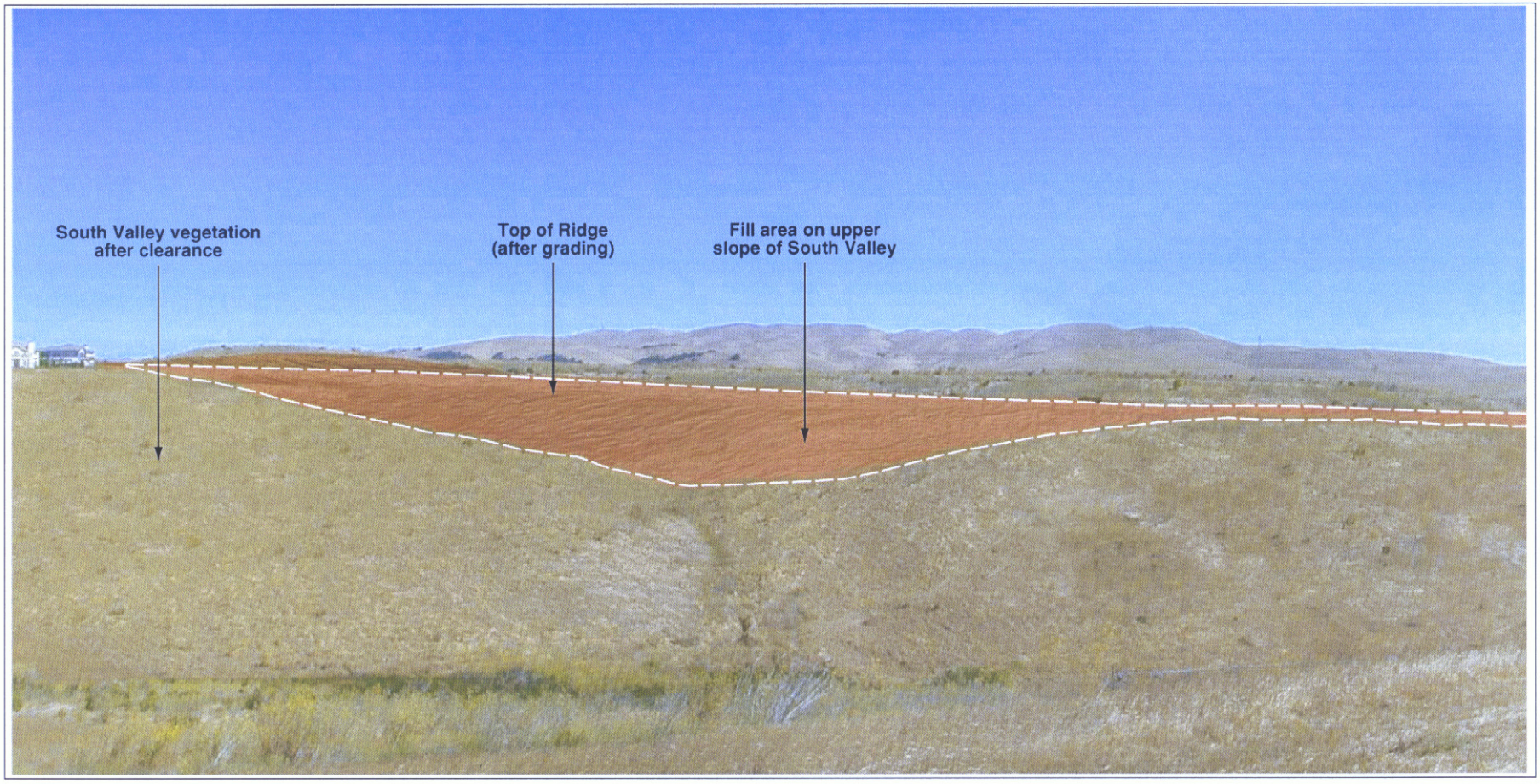


Photo 4-12. Simulation of view from end of Casey Court (Observation Point 4) after completion of grading. Dash line indicates area of change.

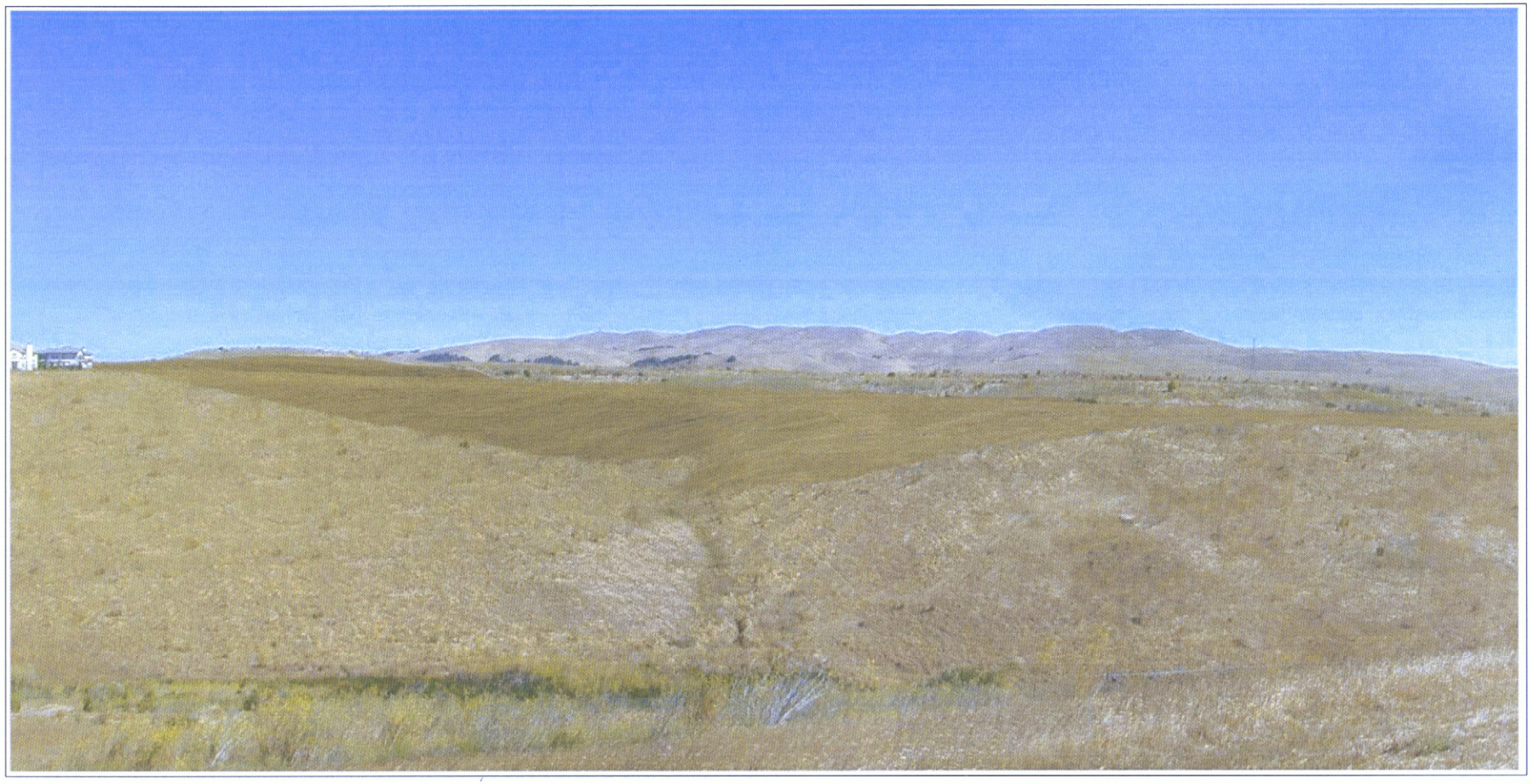


Photo 4-13. Simulation of view from end of Casey Court (Observation Point 4) after completion of revegetation.

EXPLANATION

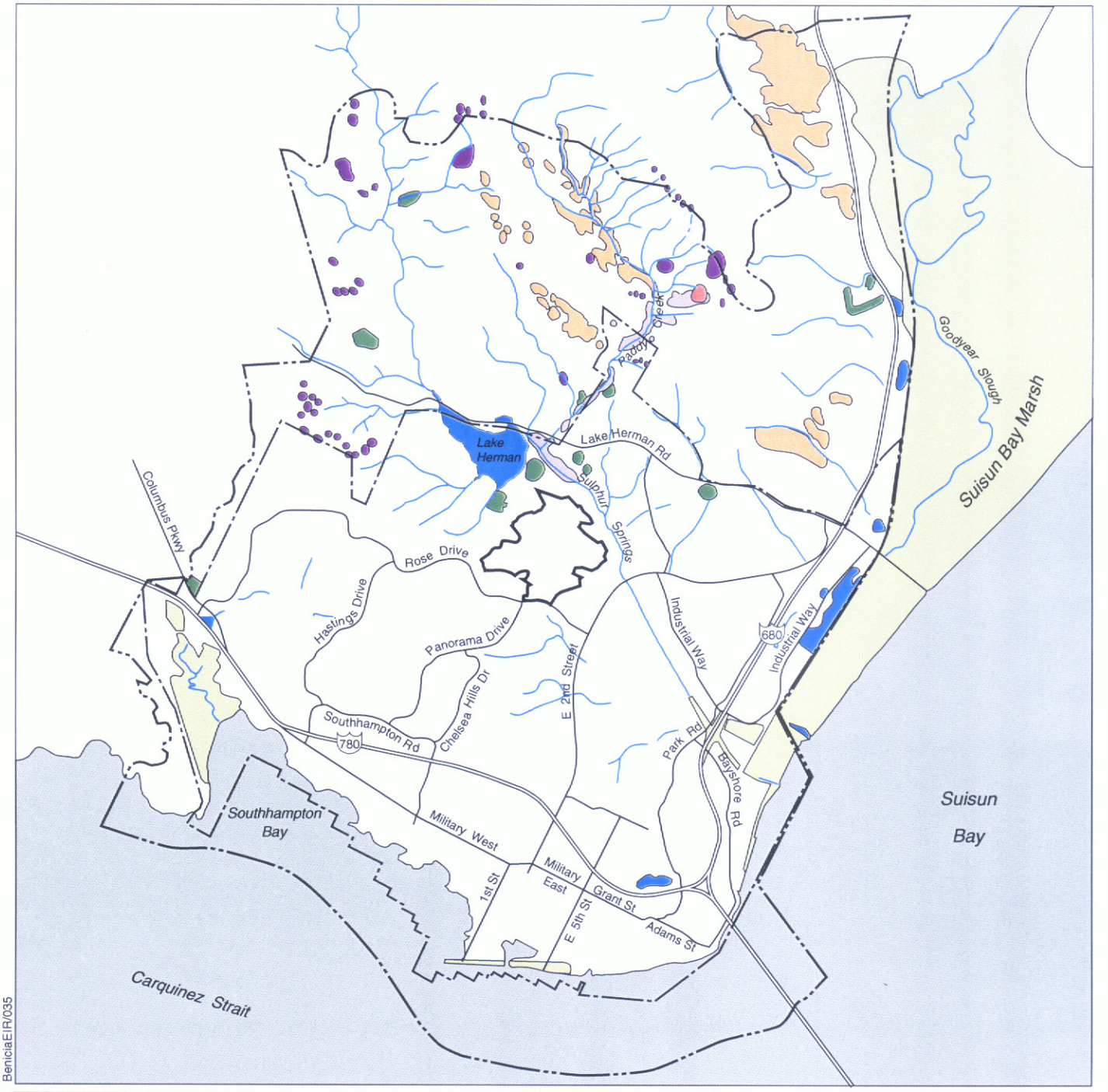
Project Site Boundary

Jurisdictional Wetlands (5.03 acres)

Jurisdictional Wetlands on Project Site

0 250 500 1000 Feet

Figure 7-1



BeniciaEIR/035

EXPLANATION

Sensitive Natural Communities/Unique Vegetation

- Marshland/Northern Coastal Salt Marsh/Coastal Brackish Marsh
- Coast Live Oak Woodland
- Valley Needlegrass Grassland
- Euclayptus Grove (Raptor roosting and nesting substrate)
- Riparian (Willow Riparian Forest/Willow Scrub)
- Johnny Jump-up Plants (Callipe Silverspot butterfly larvae host plant)
- Palustrine/Riverine Wetlands/Other Waters (Streams, Channels, Ponds, Lakes)

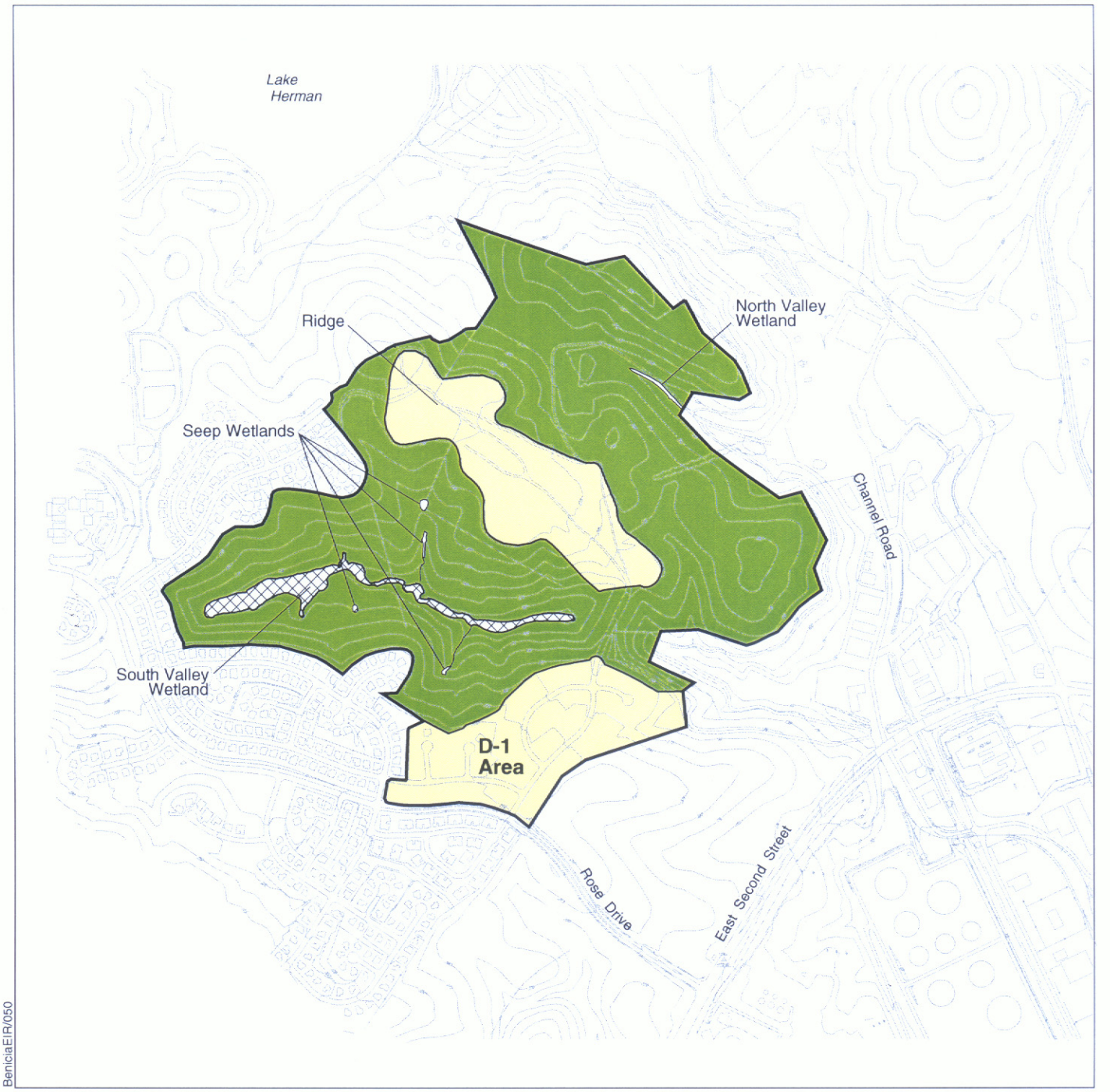
- Planning Area Boundary
- City Limits
- Project Site
- 680 Interstate Highway

0 .25 .5 1 Mile

Source: City of Benicia General Plan, 1999.

Regional Natural Resources

Figure 7-2



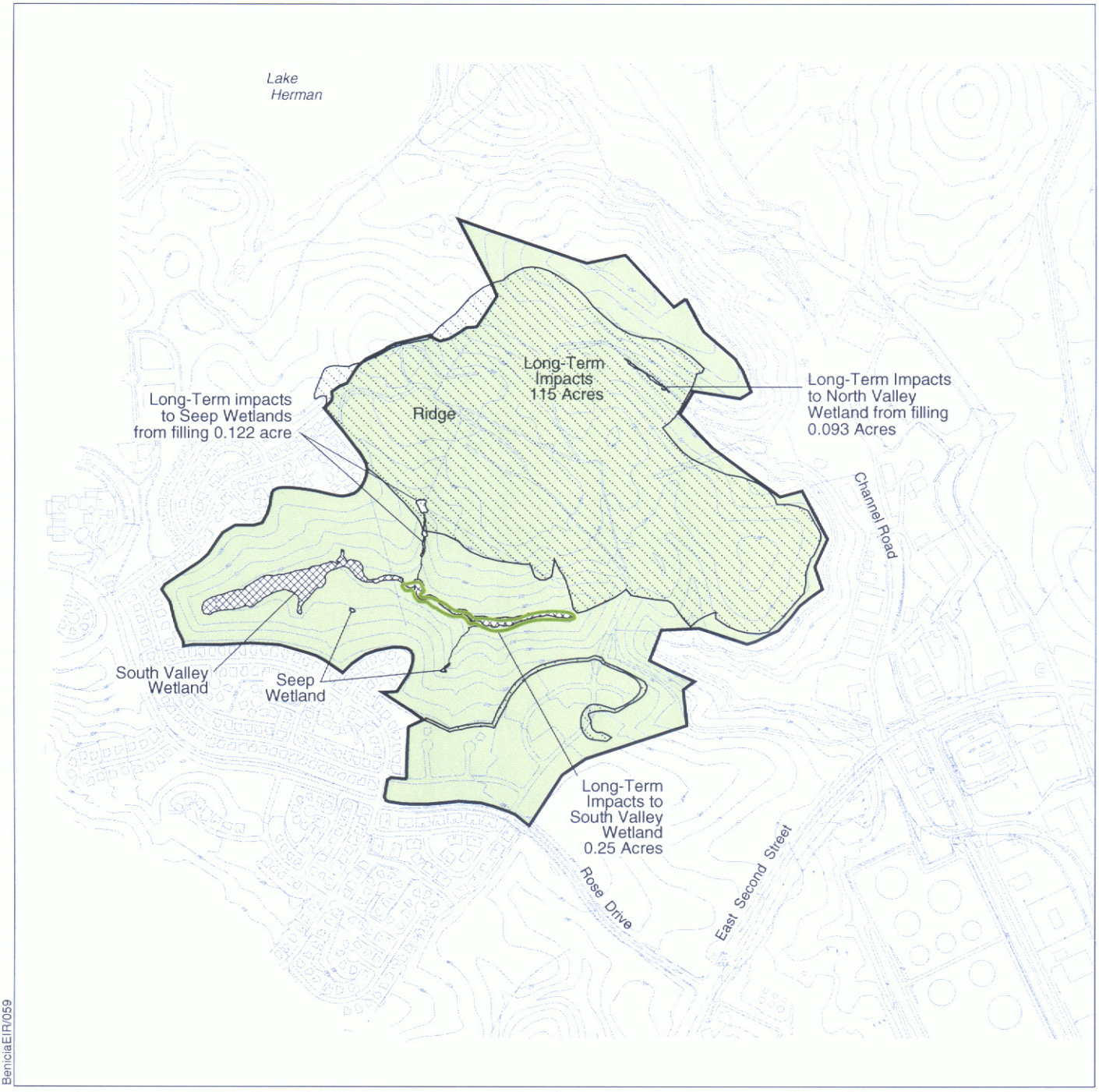
EXPLANATION

- Project Site Boundary
- Annual Grassland
- Disturbed Grassland
- Wetlands and Associated Vegetation (Marsh/Riparian)

0 250 500 1000 Feet

Vegetation on Project Site

Figure 7-3



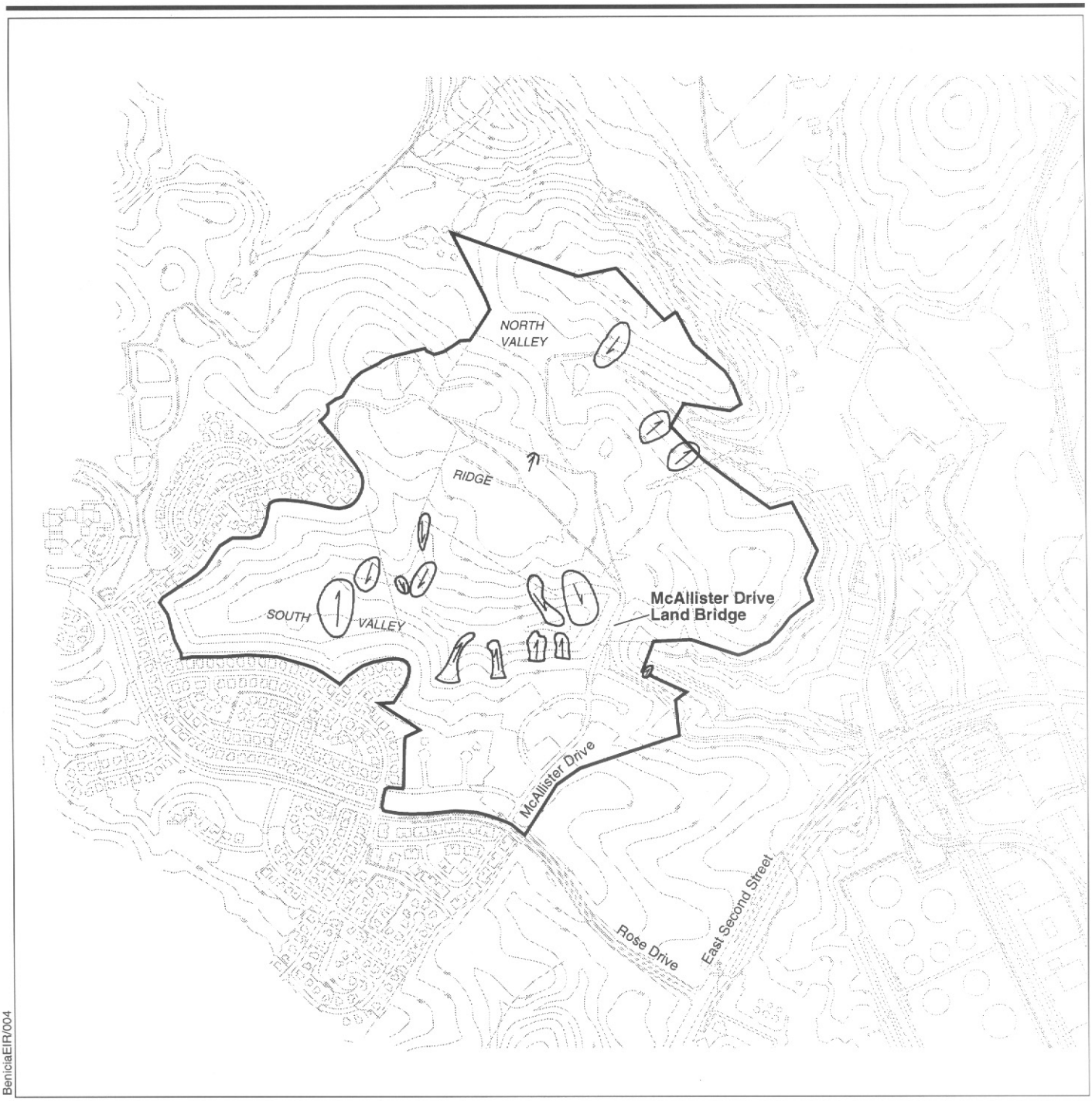
EXPLANATION

- Project Site Boundary
- Grassland Area (215 acres)
- Long-Term Impact Areas (115 acres)
- Wetlands and associated vegetation (5.03 acres) (Marsh/Riparian)

0 250 500 1000 Feet

Short- and Long-Term Impact Acreages at the Project Site

Figure 7-4



EXPLANATION

Project Site Boundary

Quaternary Landslide

Landslides

0 250 500 1000 Feet

Note: Contour interval equals 25 feet.
Source: ENGEO (1989)

Figure 9-1

u:\data\cityofbenicia\arcview\project\Granite_EIR_March15_2001.apr(Figure 10-1 EIR_8-17-01)

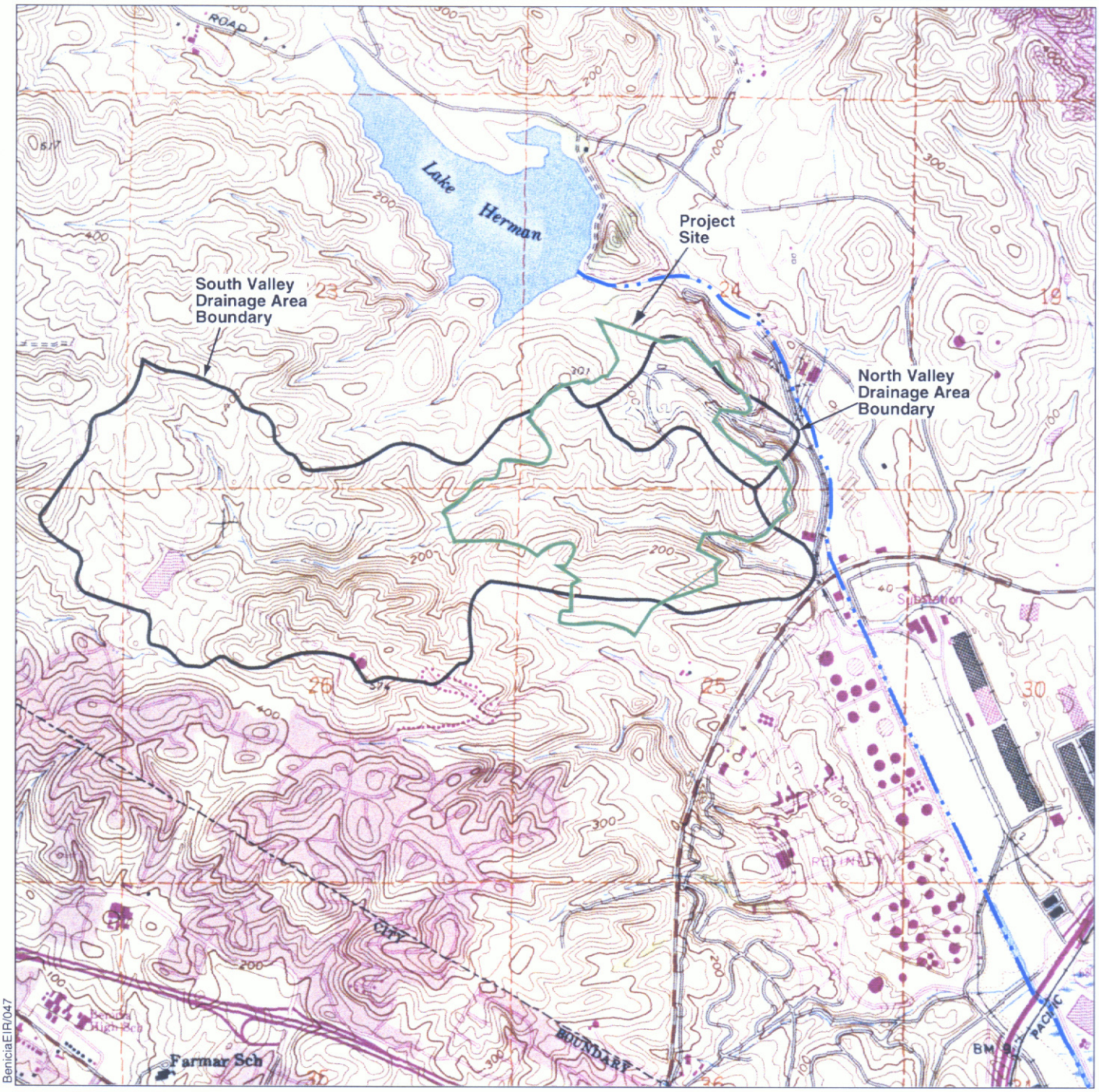
EXPLANATION

- Project Site Boundary
- 37mm Projectile Most Probable Munition
- 60mm Projectile Most Probable Munition
- Wetlands
- Jurisdictional Waters
- 1181 Foot VSD
- 1080 Foot VSD

500 0 500 1000 Feet

Voluntary Separation Distances

Figure 10-1



EXPLANATION

- Watershed Boundary
- Project Site Boundary
- Sulfur Springs Creek

Watershed Map

0 500 1000 2000 Feet

Figure 11-1

BeniciaEIR/001

EXPLANATION

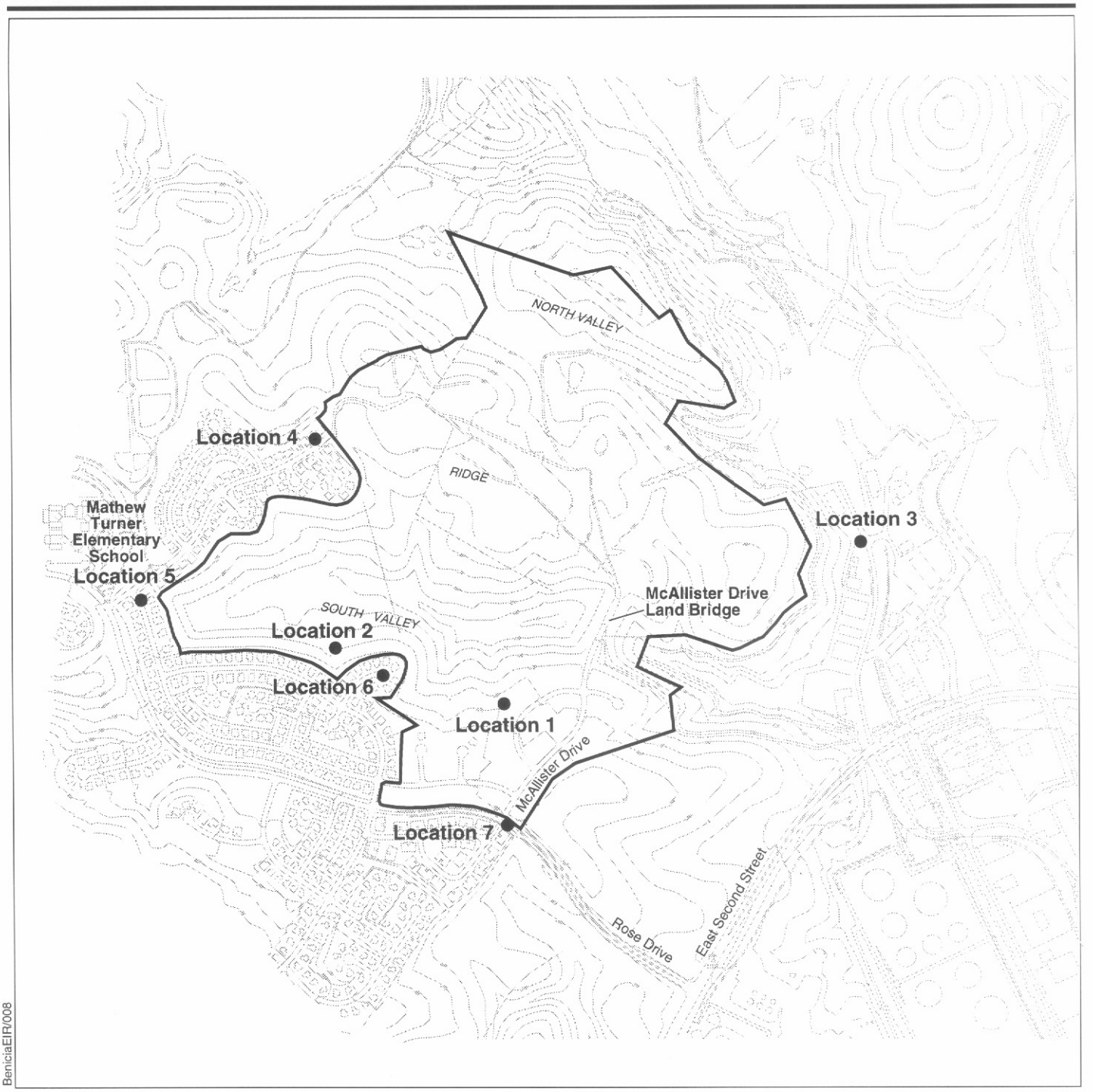
- Single Family Residential
- General Open Space
- Parks
- Light Industrial
- School
- Medium Density Residential
- General Industrial
- Jurisdictional Wetlands
- Project Site Boundary
- Jurisdictional Waters

0 250 500 1000 Feet

Note: Contour interval equals 25 feet.

General Plan Future Land Use

Figure 12-1



EXPLANATION

Project Site Boundary

Monitoring Locations

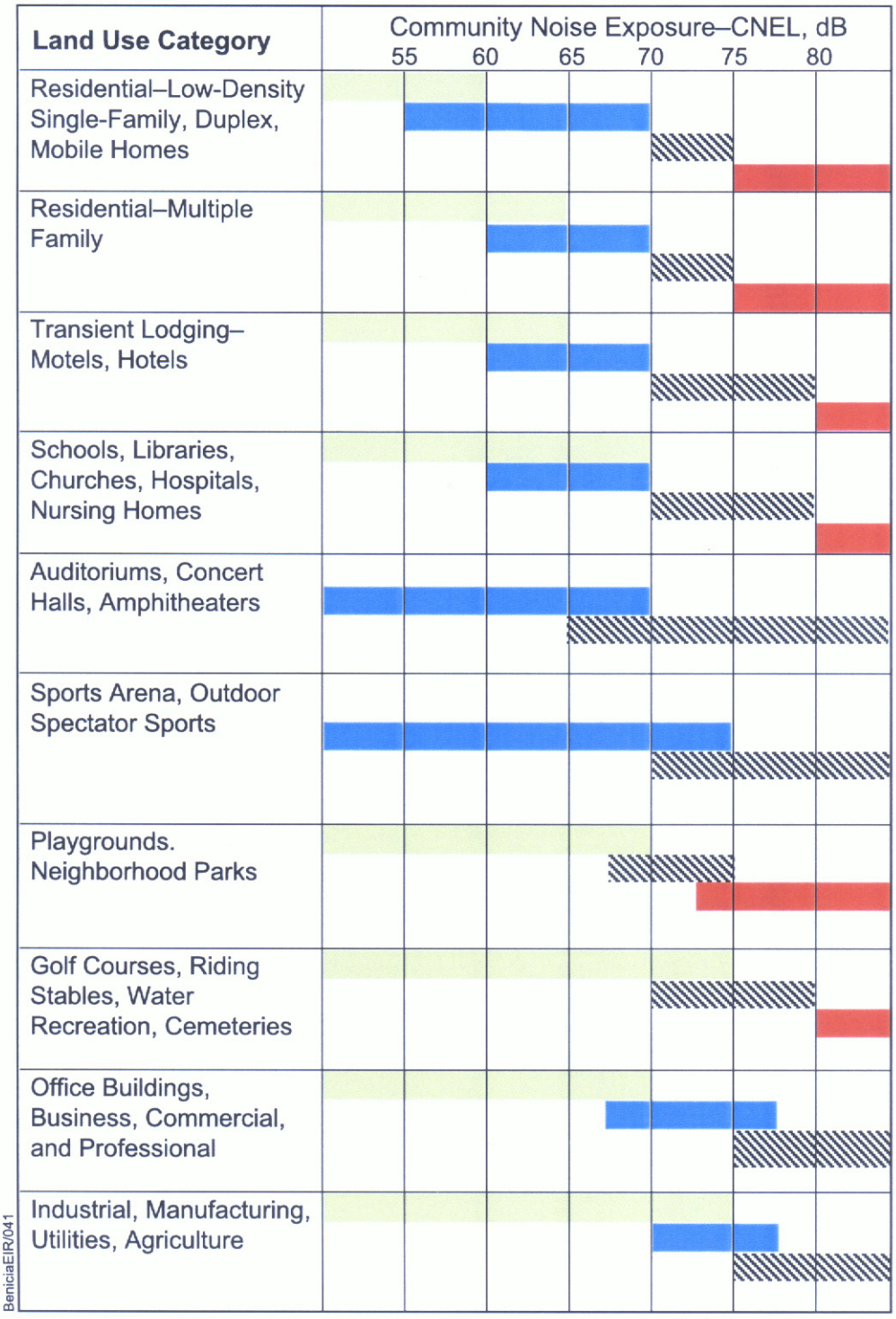
Noise Monitoring Locations

0 250 500 1000 Feet

Note: Descriptions of noise monitoring locations and ambient noise level monitoring results are shown in Table 14-5.

Figure 14-1

Table 14-2. Land Use Compatibility for Community Noise Environments



INTERPRETATION

NORMALLY ACCEPTABLE
Specified land use is satisfactory. based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.

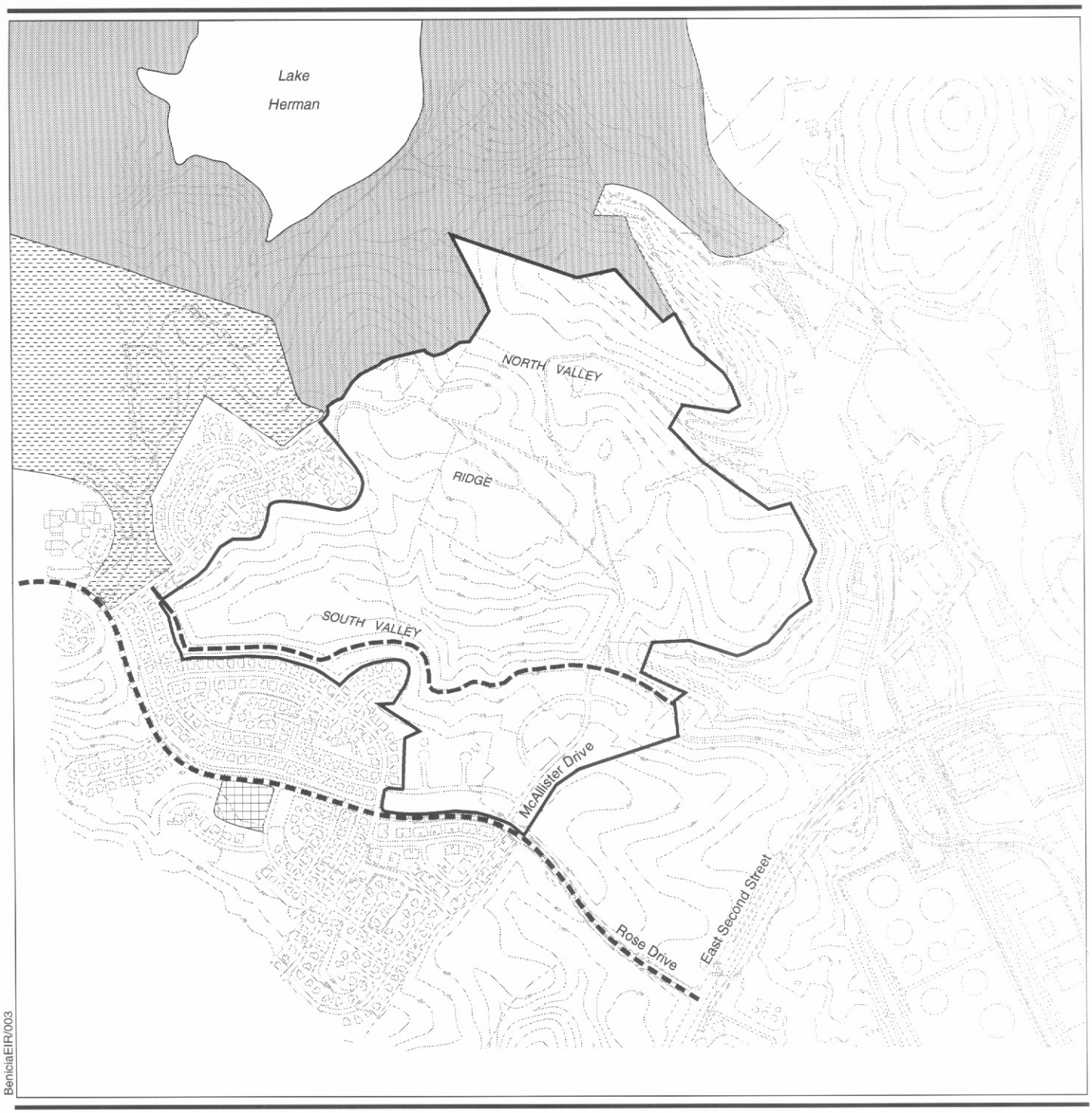
CONDITIONALLY ACCEPTABLE
New construction or development should be undertaken only after a detailed analysis of noise reduction is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.

NORMALLY UNACCEPTABLE
New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.

CLEARLY UNACCEPTABLE
New construction or development should generally not be undertaken.

BeniciaEIR/041

Source: Office of Planning and Research, State of California General Plan Guidelines.
Appendix A: Guidelines for the Preparation and Content of the Noise Element of the General Plan, 1998.



EXPLANATION

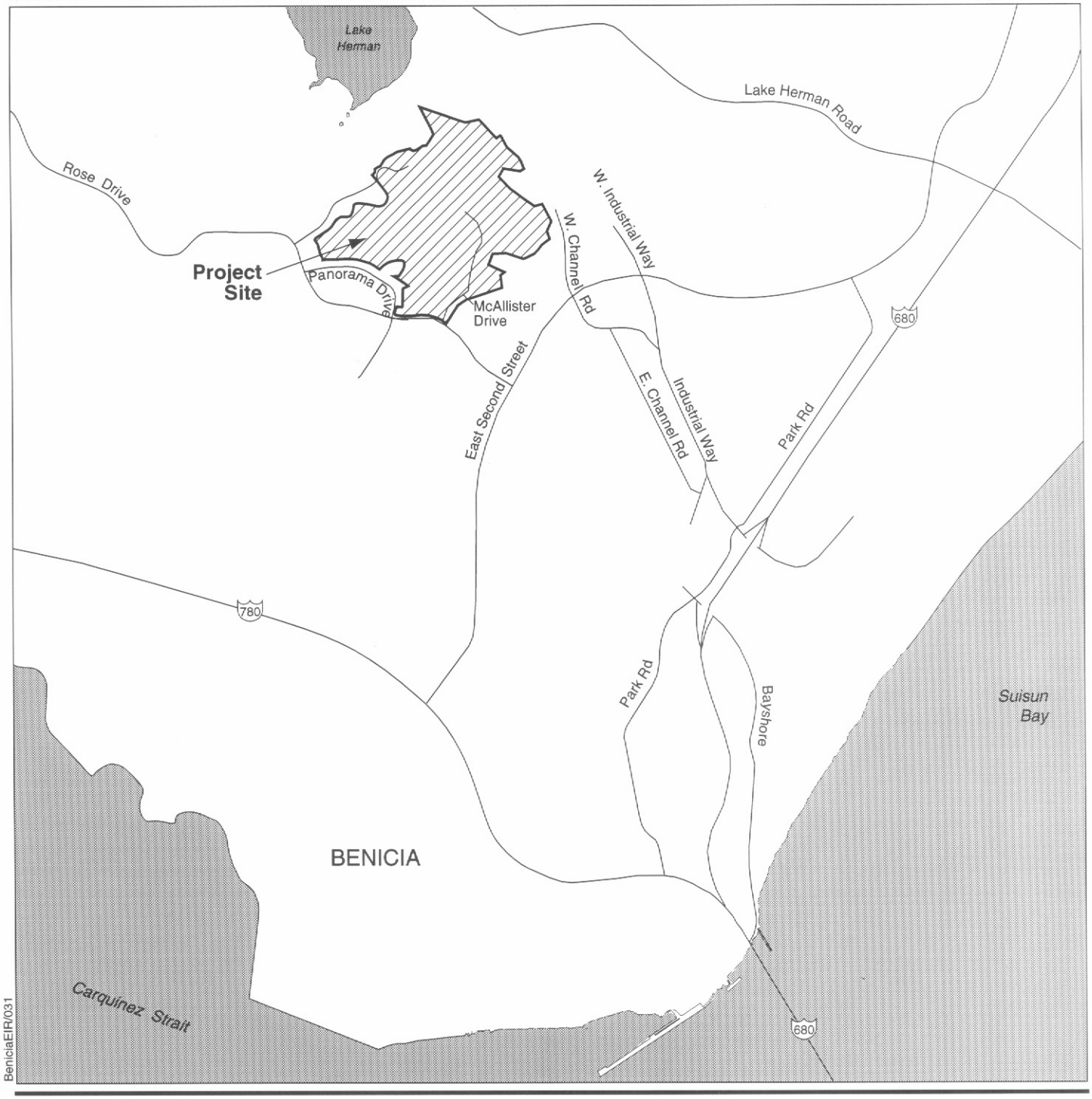
- Lake Herman Regional Park
- Benicia Community Park
- Frank Skillman Park
- Paved Community Trail
- Project Site Boundary

0 250 500 1000 Feet

Note: Contour interval equals 25 feet.

Existing Recreational Facilities

Figure 17-1



EXPLANATION

680 Interstate Highway

Project Site

Regional and Local Roads

0 .125 .25 .5 Mile

Figure 18-1

BeniciaEIR/053

EXPLANATION

- Blake Court/Black Material Cleanup Project
- IT Panoche Facility Project
- USACE Former Benicia Arsenal Remediation Project
- Tourtelot Property Residential Development Project
- Parcel G-4 Residential Development Project
- Benicia Business Park Project
- Gateway Plaza Project
- City Limits
- Project Site
- 680 Interstate Highway

0 .125 .25 .5 Mile

Potential Projects Near the Project Site

Figure 21-1