N60211_000491
CROWS LANDING
SSIC NO. 5090.3.A

CTO 086 Transmittal #0007

TRANSMITTAL

SHAW ENVIRONMENTAL, INC.
4005 Port Chicago Highway
Concord, CA 94520-1120
(925)288-9898

To: Lynn Hornecker **Date:** April 28, 2003

From: David Kelly

Subject: Interim Data Summary
IRP Site 11A Time Critical Removal Action

Waste excavation and off-site disposal was completed at Installation Restoration Program (IRP) Site 11A, "Current and Former Sewer System" in accordance with the *Project Plans, Time Critical Removal Action at Installation Restoration Program Site 11A, NASA Crows Landing Flight Facility* (IT 2002). This letter report provides preliminary information to document that field activities meet the requirements provided in the Time Critical Removal Action Memorandum. A final report will be prepared providing a detailed description of field activities conducted, documentation of disposal activities, and analytical results from samples collected at the excavation extent.

The excavation and disposal activities were initiated on 30 January 2003 and included excavation to remove waste material to a visual extent in five excavation areas at the location of the former sewer system. The proposed and final excavation extents are shown in Figures 1 through 5. Waste from Excavation Areas 1, 3, 4, and 5 was transported off-site and disposed as non-hazardous waste at Forward Landfill in Manteca, California. Waste from Excavation Area 2 was transported off-site, treated (stabilization), and disposed as hazardous waste at Chemical Waste Management in Kettleman City, California. Estimated and actual quantities of material excavated from each excavation area are included in the following table.

Excavation Area	Waste Quantity (cubic yards)	
	Estimated	Actual
Area 1	70	3040
Area 2	1287	1118
Area 3	120	126
Area 4	163	266
Area 5	4129	8001
Total	5769	12551

Two additional septic tanks were discovered during the excavation activities at Excavation Area 1. The new tanks were not identified during the previous geophysical testing and exploratory trenching and were located between the two previously identified tanks. The two additional tanks were removed and resulted in a significant increase in the volume of waste generated and disposed (Figure 1). Sloping and benching was conducted at Excavation Area 1 following waste removal activities to allow access to the excavation for sample collection. The overburden material was staged on-site, sampled in accordance with the planning documents, and used as backfill.

The proposed excavation extent at Excavation Area 2 was based on limited exploratory trenching and extended into areas of native, undisturbed soil and areas where the presence of utilities limited access for removal. The quantity of material excavated from Excavation Area 2 was minimized, relative to the proposed excavation extent, based on visual observations during removal activities (Figure 2). All waste and visually impacted soil was excavated and shipped off-site for disposal. All native soil within the proposed excavation extent was exposed and inspected (documented by photographs) following verification sampling to verify that all waste was removed.

The proposed excavation extent at Excavation Area 4 was based on limited exploratory trenching that did not extend under the asphalt road covering the north end of the excavation. The actual excavation extent was adjusted during the removal action based on visual observations of waste and staining in the excavation sidewall (Figure 4).

Excavation Area 5 was located at the northern extent of the geophysical surveys and exploratory trenching used to define the proposed excavation extents. During the removal activities, additional waste material was discovered at the northern boundary of Excavation Area 5. The excavation was extended to the north until the visual extent of waste in the excavation sidewalls was reached (Figure 5). All waste material and stained soil was transported off-site for disposal. Benching was conducted at Excavation Area 5 following waste removal activities to allow access to the excavation for sample collection. The overburden material was staged on-site, sampled in accordance with the planning documents, and used as backfill.

Soil samples were collected following excavation activities to document concentrations of chemicals remaining in soil at the excavation extents. The rationale for soil sample collection included:

- 1 sample per 625 square feet of excavation bottom based on 25 by 25 foot grid
- 1 sample per 50 linear feet of excavation sidewall
- 1 sample per 50 linear feet of the pipeline trench collected at the bottom of the trench.

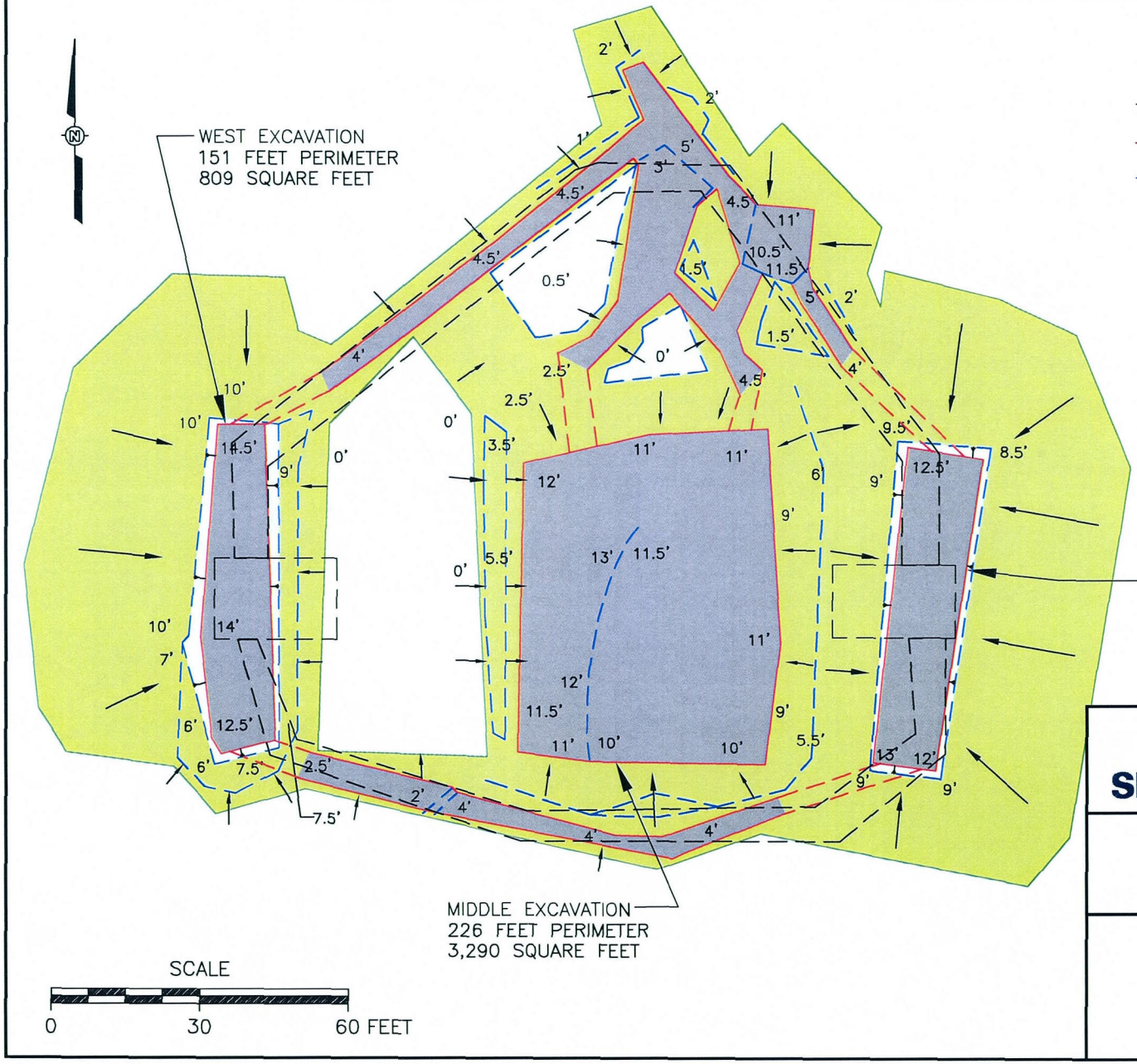
Figures 6 through 10 show the final excavation extents and sample locations. The drawings include the final excavation dimensions and specific number and type of samples collected to meet the requirements. The samples were sent to an off-site laboratory for the analysis described in the *Sampling and Analysis Plan, Time Critical Removal Action at Installation Restoration Program Site 11A, NASA Crows Landing Flight Facility* (IT 2002). The sample results are currently being received and validated.

To date, Excavation Areas 2, 3, and 4 have been backfilled with overburden material from the facility. The remaining excavations (Excavation Areas 1 and 5) will be backfilled when a suitable source of imported backfill material can be identified and procured.

A final report will be prepared to document the removal action activities in detail and will include validated analytical data, photographs, and documentation of waste disposal.

cc: B Hulet
R Condit
T Barry
E Ramirez
Project Files

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER	836557-A32
---	---	CONCORD	SJZ	4/21/03	---	---	---	---		



LEGEND

- PROPOSED EXCAVATION EXTENT
- FINAL EXCAVATION EXTENT
- CHANGES IN DEPTH
- OVERBURDEN (BENCH/SLOPE)
- EXCAVATION BOTTOM
- SLOPING
- SIDEWALLS

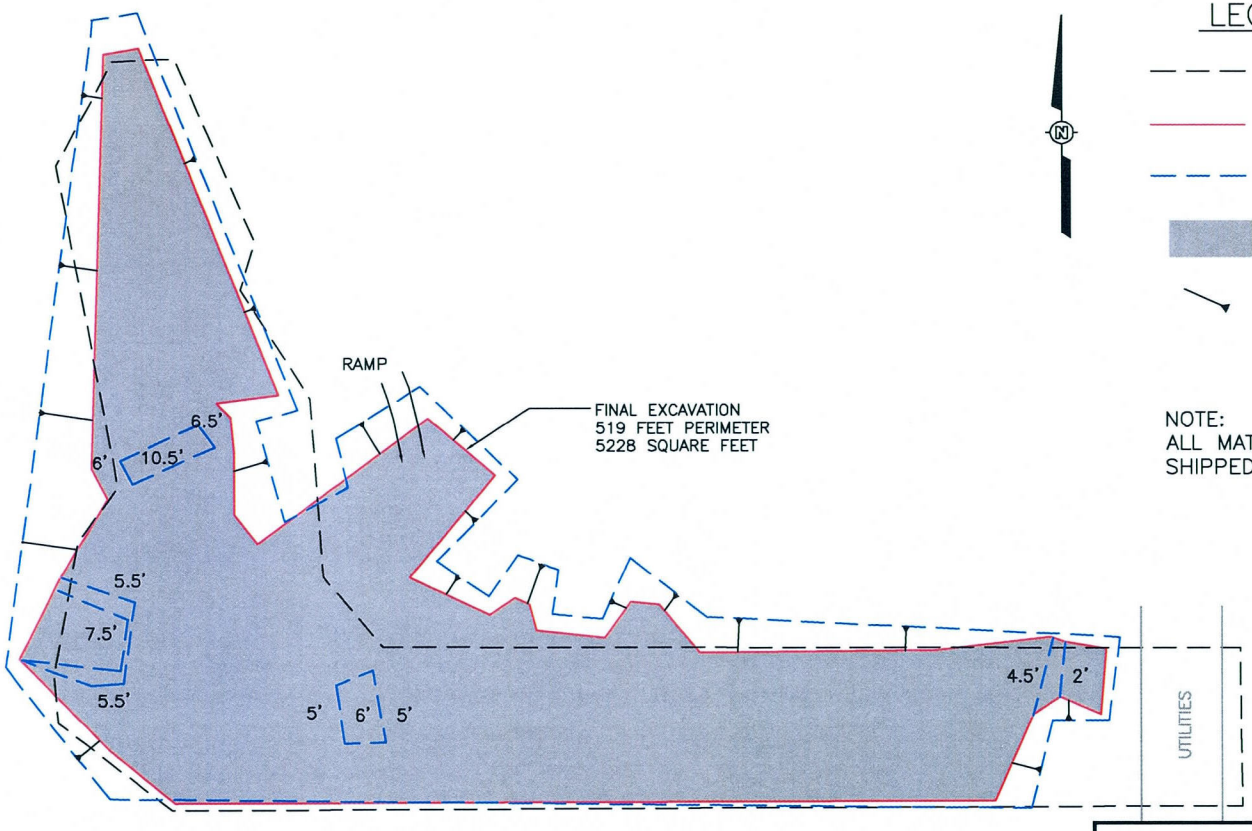
Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 1

EXCAVATION AREA #1

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER	836557-A38
---	---	CONCORD	SJZ	4/16/03	---	---	---	---		



LEGEND

- PROPOSED EXCAVATION EXTENT
- FINAL EXCAVATION EXTENT
- CHANGES IN DEPTH
- EXCAVATION BOTTOM
- SIDEWALLS

NOTE:
ALL MATERIAL REMOVED WAS SHIPPED OFF-SITE

SCALE

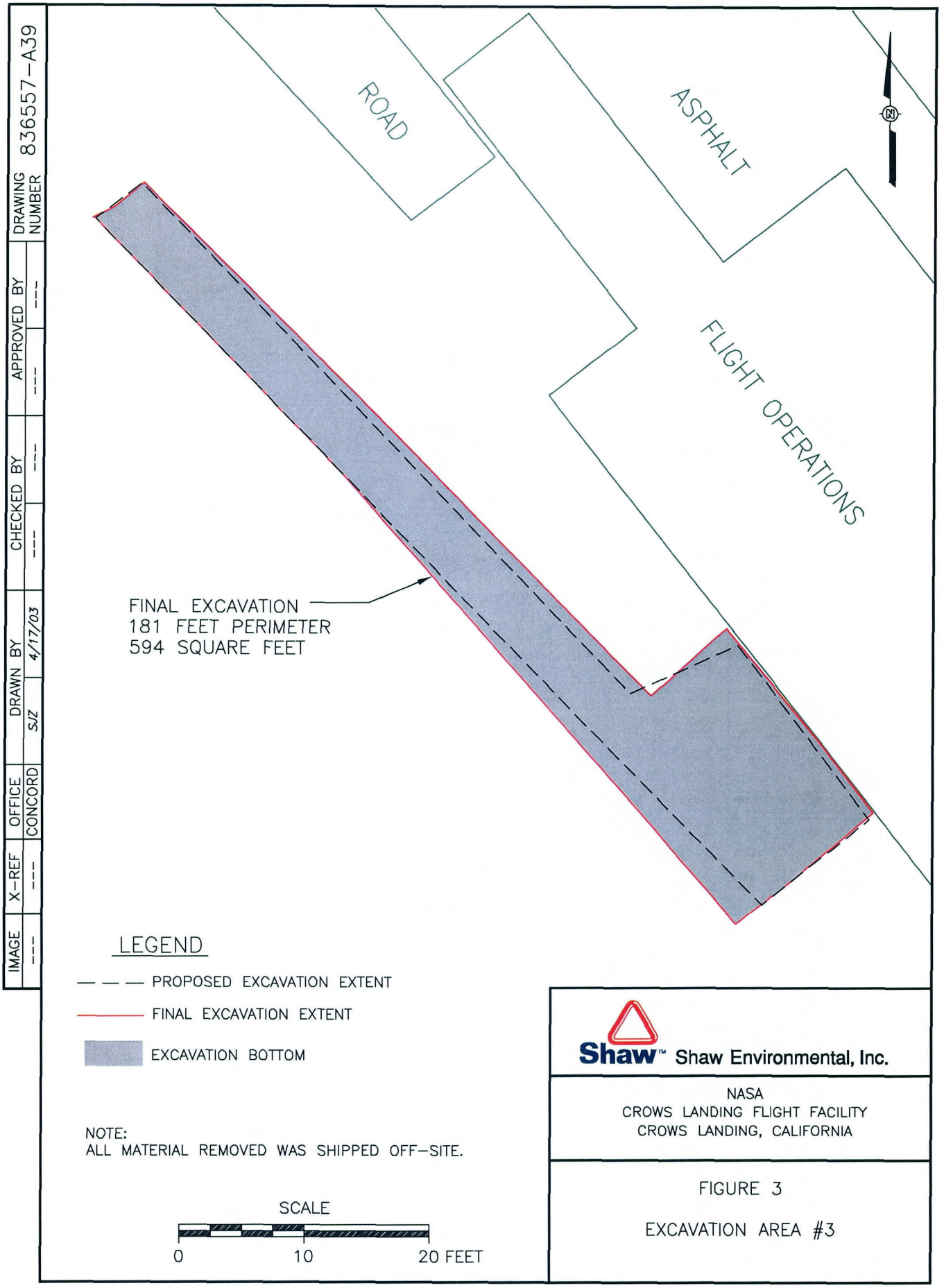
0 25 50 FEET

Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 2

EXCAVATION AREA #2



NOTE:
ALL MATERIAL REMOVED WAS SHIPPED OFF-SITE.

Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 3

EXCAVATION AREA #3

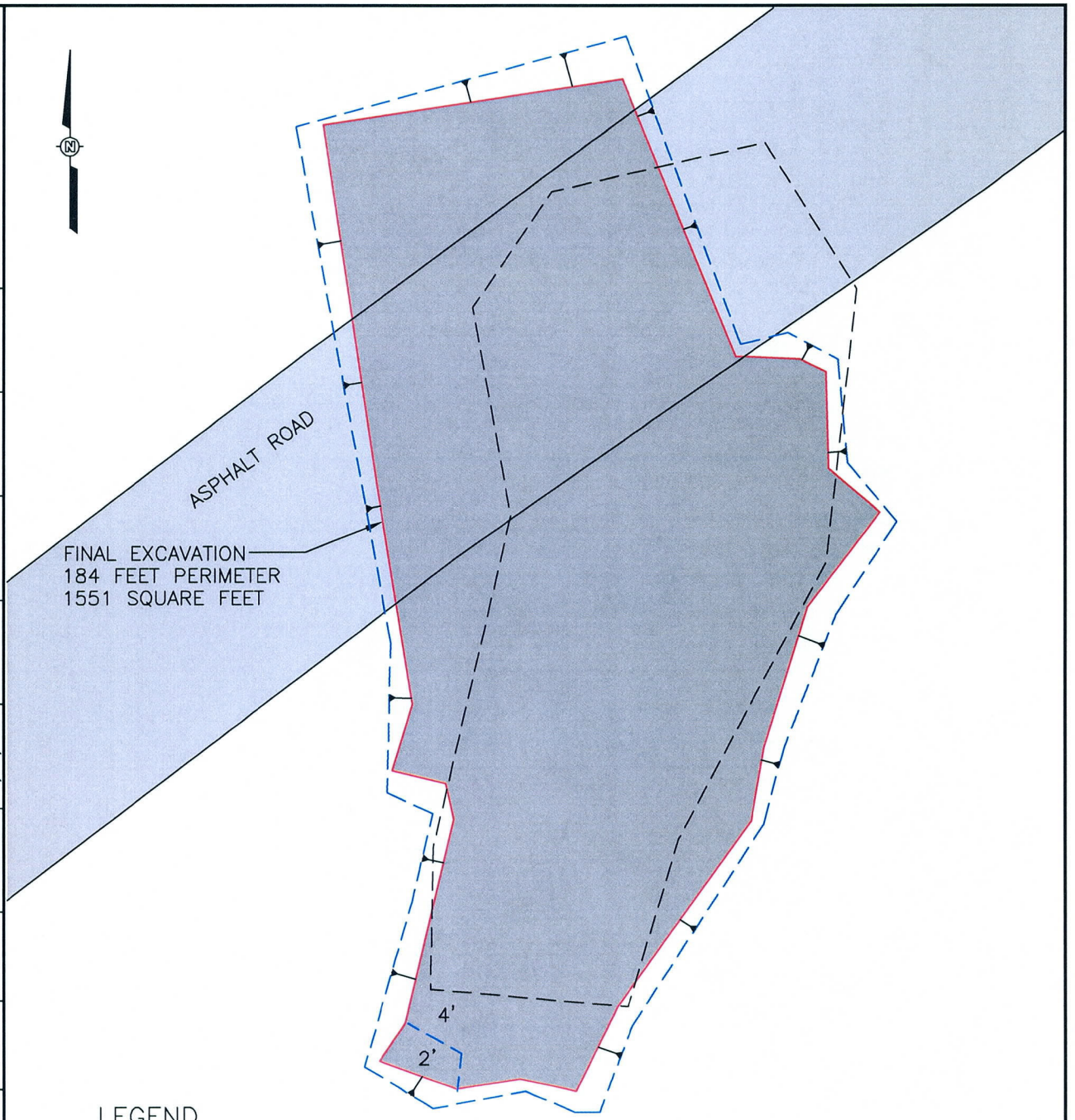


IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
---	---	CONCORD	SJZ	4/21/03	---	---	---	---	836557-A40

LEGEND

- PROPOSED EXCAVATION EXTENT
- FINAL EXCAVATION EXTENT
- CHANGES IN DEPTH
- EXCAVATION BOTTOM
- SIDEWALLS

NOTE:
ALL MATERIAL REMOVED WAS SHIPPED OFF-SITE.

SCALE

0 10 20 FEET

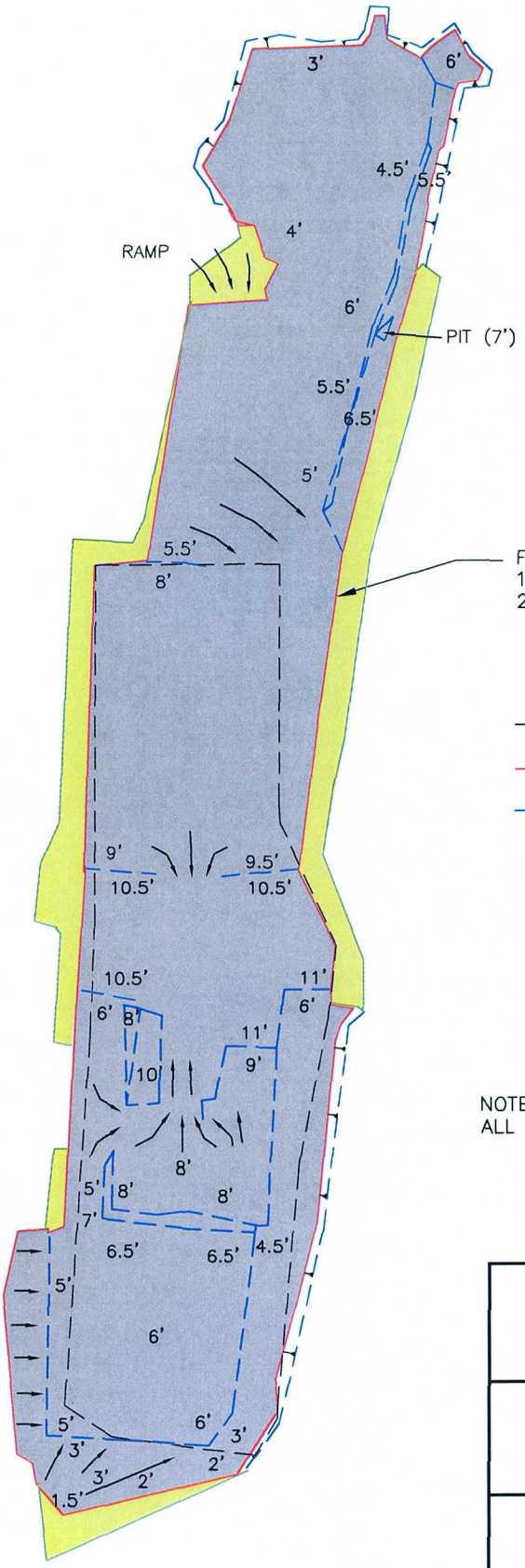
Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 4

EXCAVATION AREA #4

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
---	---	CONCORD	SJZ	4/21/03	---	---	---	---	836557-A33



LEGEND

- PROPOSED EXCAVATION EXTENT
- FINAL EXCAVATION EXTENT
- CHANGES IN DEPTH
- OVERBURDEN (BENCH/SLOPE)
- EXCAVATION BOTTOM
- SLOPING
- SIDEWALLS

NOTE:
ALL MATERIAL REMOVED WAS SHIPPED OFF-SITE.

SCALE

0 50 100FEET

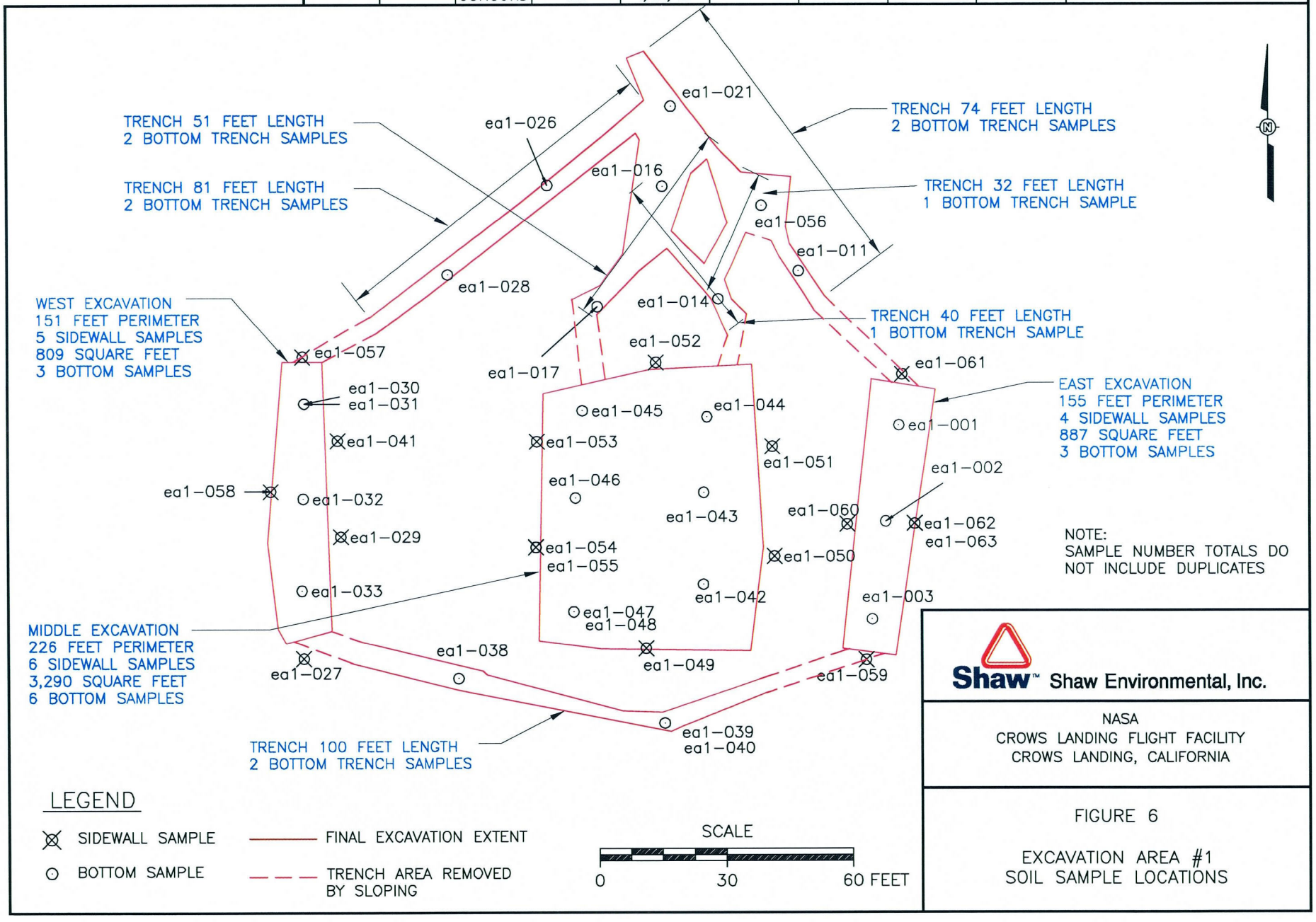
Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 5

EXCAVATION AREA #5

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER	836557-A34
---	---	CONCORD	SJZ	4/21/03	---	---	---	---		



NOTE:
SAMPLE NUMBER TOTALS DO NOT INCLUDE DUPLICATES

LEGEND

- ⊗ SIDEWALL SAMPLE
- ⊙ BOTTOM SAMPLE
- FINAL EXCAVATION EXTENT
- TRENCH AREA REMOVED BY SLOPING

SCALE

0 30 60 FEET

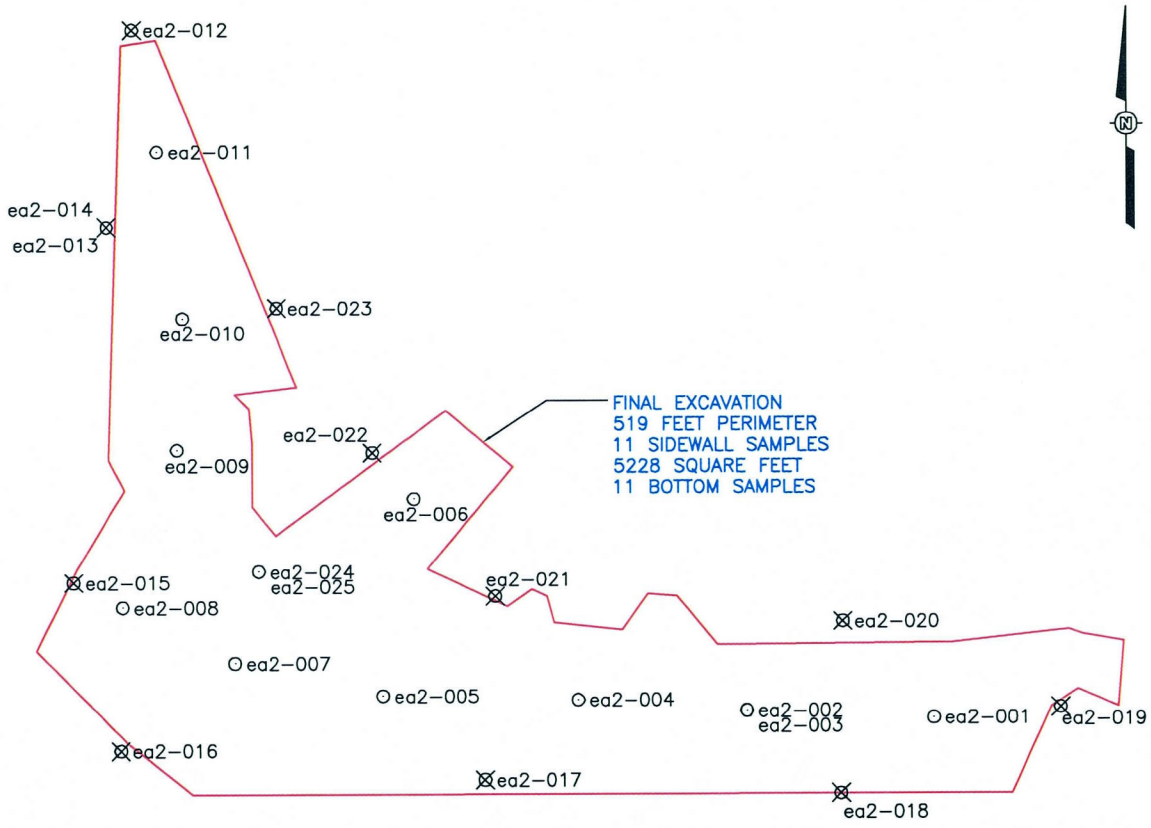
Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 6

EXCAVATION AREA #1
SOIL SAMPLE LOCATIONS

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER	836557-A28
---	---	CONCORD	SJZ	4/21/03	---	---	---	---		



LEGEND

SIDEWALL SAMPLE

BOTTOM SAMPLE

FINAL EXCAVATION EXTENT

NOTE:
SAMPLE NUMBER TOTALS DO NOT INCLUDE DUPLICATES

SCALE

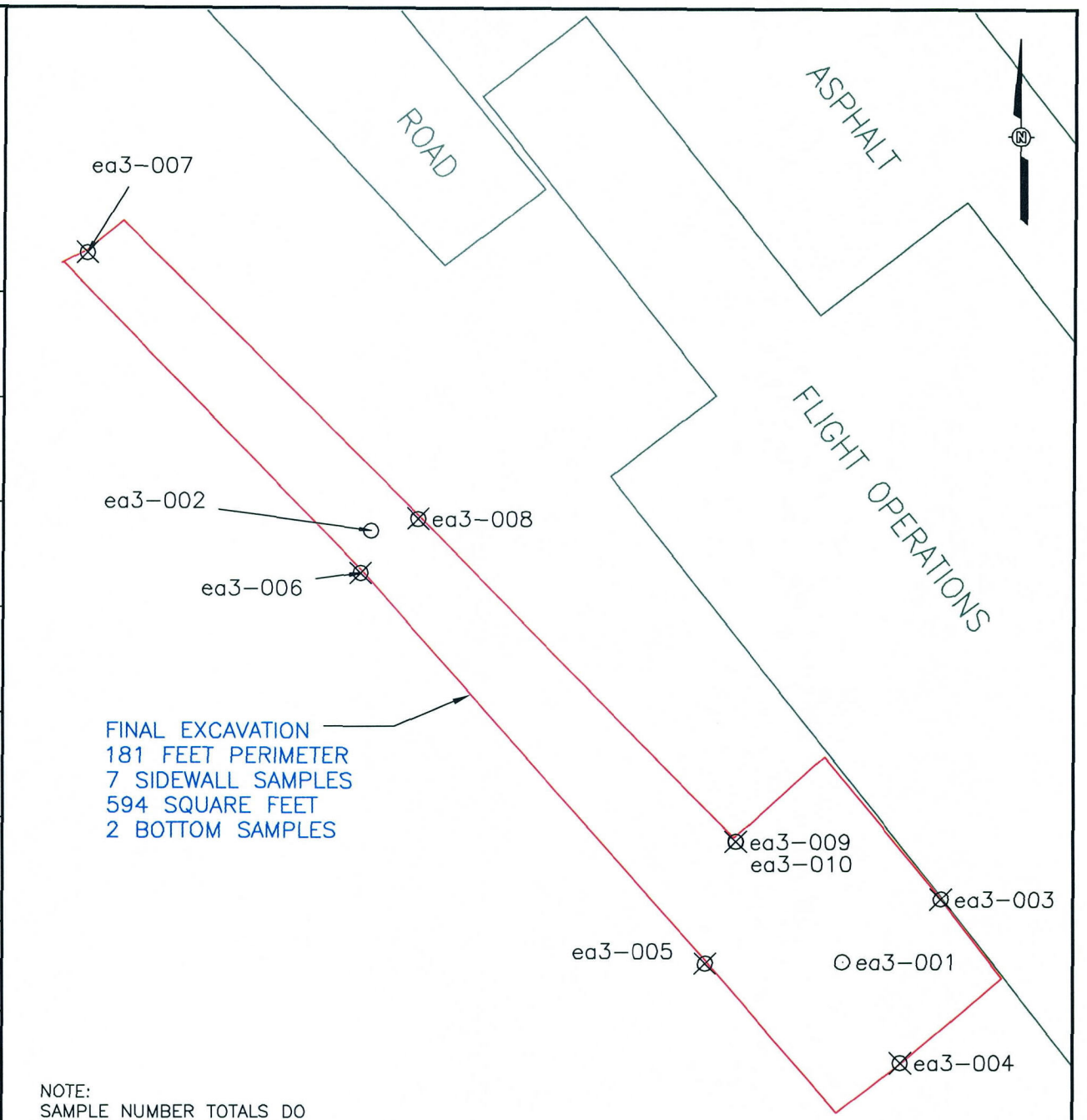
0 25 50 FEET

Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 7

EXCAVATION AREA #2
SOIL SAMPLE LOCATIONS



NOTE:
SAMPLE NUMBER TOTALS DO NOT INCLUDE DUPLICATES

LEGEND

- SIDEWALL SAMPLE
- BOTTOM SAMPLE
- FINAL EXCAVATION EXTENT

SCALE

0 10 20 FEET

Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 8

EXCAVATION AREA #3
SOIL SAMPLE LOCATIONS

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	CONCORD	SJZ 4/21/03	--- ---	--- ---	836557-A27

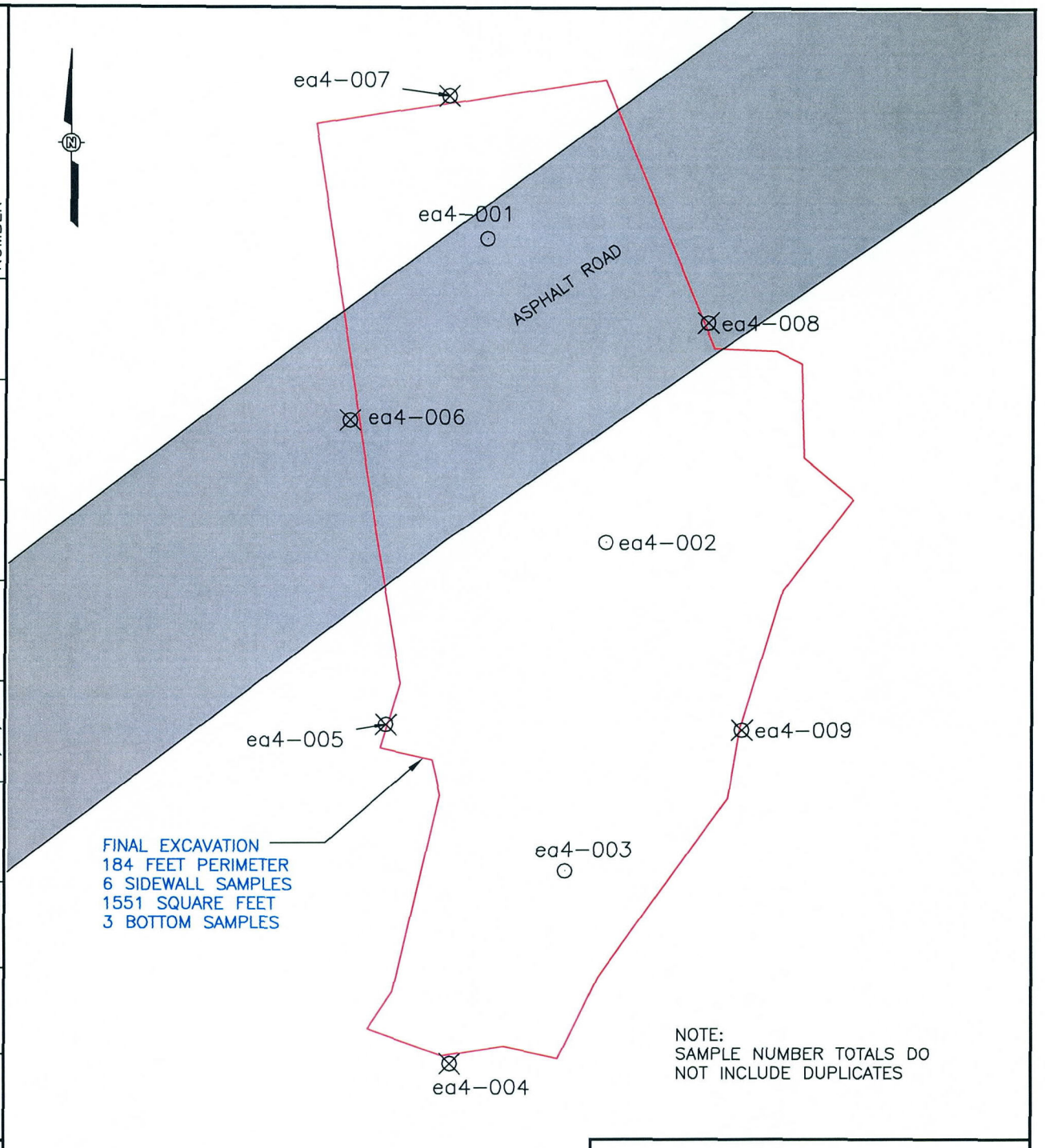


IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
---	---	CONCORD	SJZ	4/21/03	---	---	---	---	836557-A26

LEGEND

- SIDEWALL SAMPLE
- BOTTOM SAMPLE
- FINAL EXCAVATION EXTENT

SCALE

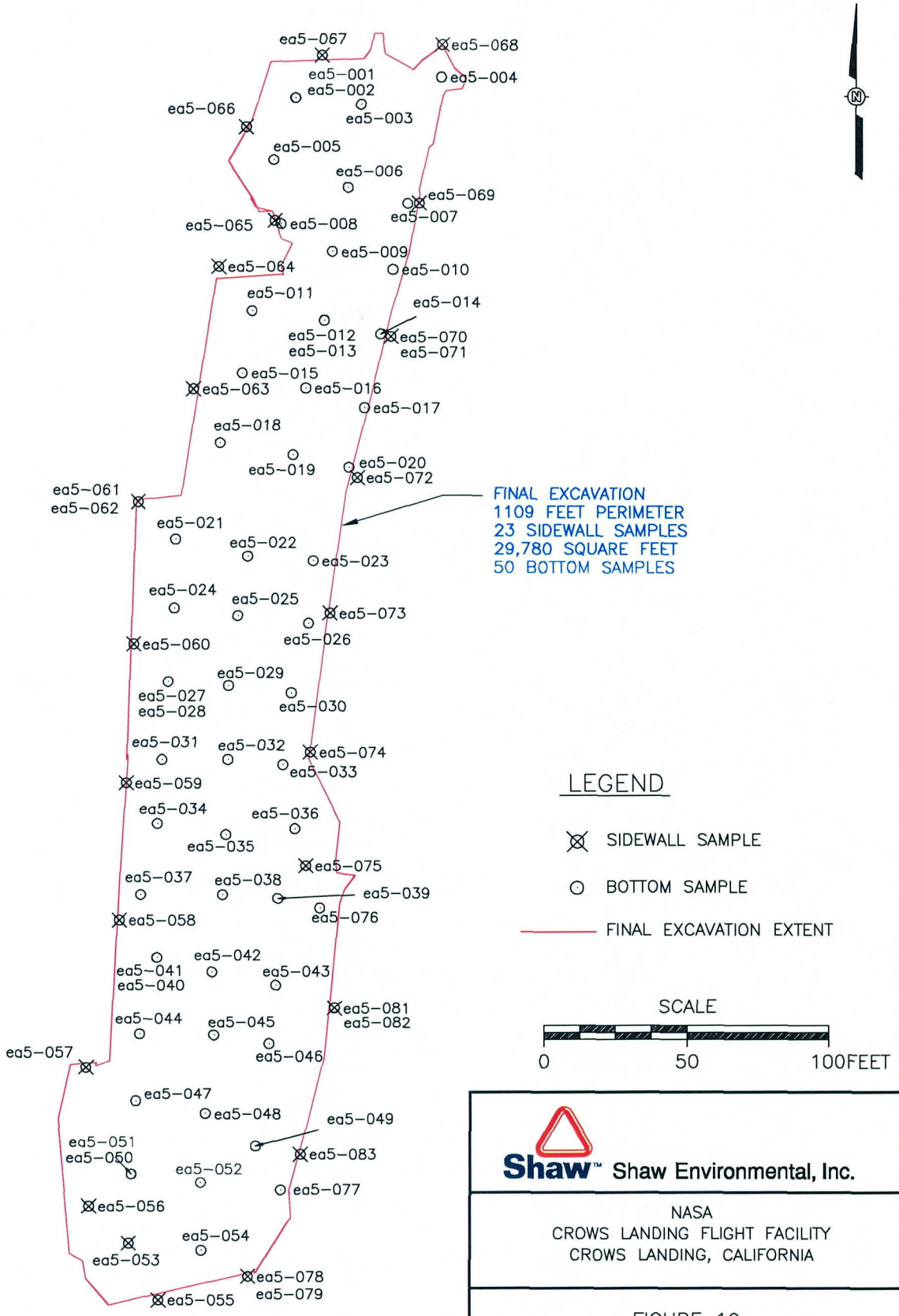
0 10 20 FEET

Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 9

EXCAVATION AREA #4
SOIL SAMPLE LOCATIONS



NOTE:
SAMPLE NUMBER TOTALS DO NOT INCLUDE DUPLICATES

Shaw™ Shaw Environmental, Inc.

NASA
CROWS LANDING FLIGHT FACILITY
CROWS LANDING, CALIFORNIA

FIGURE 10

EXCAVATION AREA #5
SOIL SAMPLE LOCATIONS

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	CONCORD	SJZ	4/21/03	---	---	836557-A30

SOUTHWESTNAVFACENGCOM
Code 06CC.LMH
Telephone: (619) 532-0783/Fax (619) 532-0780

File: clartrltr.doc

Transmittal

Date: 29 April 2003

From: Lynn Marie Hornecker
Code 06CC.LMH

To: Diane Silva
Code ~~01LS.DS~~ 05G.DS
Administrative Record Manager

Subj: CERCLA ADMINISTRATIVE RECORD MATERIALS
NALF Crows Landing

Installation: NALF Crows Landing

UIC Number: N60211

Document Title: Interim Summary

Author:

Recipient: BCT

Record Date: ~~28 April~~ 29 April 2003

Approximate Number of Pages: 13

Sites: Site 11A

Key Words: Removal action

Contract: 12-page Attachment

CTO Number: Contract N62474-98-D.2076, CTO 86