

Woodward-Clyde



Engineering & sciences applied to the earth & its environment

August 13, 1993
C3M11P

Mr. Ron Stirling
Technical Manager
U.S. Army Corps of Engineers
ATTN: CEMRO-ED-EA
215 North 17th Street
Omaha, Nebraska 68102-4978



Re: Final Field Sampling Plan (FSP)
and Addenda to the Quality Assurance Project Plan (QAPP)
and Health and Safety Plan (HSP)
for the RI/RFI at Site SD-47 at Holloman AFB
Contract DACW-45-93-D-005
Project No. C3M11P

Dear Mr. Stirling:

Please find enclosed four copies each of Final FSP and addenda to the QAPP and HSP for work associated with completing a Remedial Investigation/RCRA Facility Investigation (RI/RFI) at Site SD-47 at Holloman AFB, Alamogordo, New Mexico. Comments from the USACE or Holloman AFB on the draft plans have been incorporated into these final submittals.

Fieldwork is scheduled to begin August 16, 1993 and last for approximately two weeks. Our field crew will be working six days on and one day off during this period.

Please call if you have any questions.

Sincerely,

Steven R. Cox
Project Manager

SRC/md/dal 3M11\P\3M11PAD.ltr

cc: Mr. Warren Neff (4 copies)
Mr. Don Calder (1 copy)
Commander, USACE MRD (2 copies)
Mr. Rich Mayer (3 copies)
Mr. Steve Alexander (1 copy)

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ADMINISTRATIVE INFORMATION

PROJECT IDENTIFICATION AND APPROVALS

Project Name: Holloman RFI - Heath and Safety Plan **Addendum**
Project Number: CM311P
Business Unit: Omaha
Project Manager: Steven R. Cox
Date of Issue: August 1, 1993
Effective Dates: August 1, 1993 through August 1, 1994

Approvals:

Steven R. Cox

8-10-93

Project Manager
Steven R. Cox

Joseph A. Watson

8-10-93

Omaha Health and Safety Officer
Joe Watson

A. Baptiste

8-12-93

Corporate Health and Safety Officer
Anne Baptiste

INTRODUCTION

This Health and Safety Plan (HSP) addendum establishes guidelines and requirements for the safety of field personnel during the completion of field activities associated with the Remedial Investigation/Resource Conservation and Recovery Act (RCRA) Facility Investigation (RI/RFI) of Site SD-47 at Holloman Air Force Base (AFB). This document supplements the Field Sampling Plan (FSP) and Addendum to the Quality Assurance Project Plan (QAPP). The specific activities addressed by this plan are defined in Section 5.0.

Prior to initiating field activities, all on-site Woodward-Clyde (W-C) personnel and W-C subcontractors shall be fully briefed on the contents of this plan, and shall be allowed to review a written copy of the plan. All W-C employees and W-C subcontractors involved in this project are required to abide by the provisions of the HSP and addendum and to sign a Compliance Agreement. In addition to this site-specific plan, personnel shall comply with the Woodward-Clyde Health and Safety Program as outlined in the Health and Safety Manual, March 1993.

The health and safety guidelines and requirements presented are based on a review of available information and an evaluation of potential hazards. This plan outlines the health and safety procedures and equipment required for activities at this site to minimize the potential for exposures of field personnel. This plan may be modified by the Project Manager (PM), the business unit Health and Safety Officer (HSO), and the Corporate Health and Safety Officer (CHSO) in response to additional information obtained regarding the potential hazards to field investigative personnel.

The following provides guidance on the use of the HSP and addendum:

Section 1	Administration Information - Addendum
Section 2	Introduction - Addendum
Section 3	Responsibilities and Authorities - New SSO in Addendum, refer to original HSP for all other information

Section 4	Site Descriptions - Revised in Addendum
Section 5	Description of Work - Addendum
Section 6	Hazard Assessment - Refer to original HSP
Section 7	General Health and Safety Requirements - Refer to original HSP
Section 8	Site-specific Health and Safety Requirements - Refer to original HSP
Section 9	Emergency Response - New Base Environmental Coordinator and Figure 9-1, Route to Hospital, refer to original HSP for all other information
Section 10	References - Refer to original HSP
Tables and Figures	Refer to original HSP

RESPONSIBILITIES AND AUTHORITIES

SITE SAFETY OFFICER (SSO): *Randy McElroy*

Responsibilities

- Direct health and safety activities on site
- Report immediately all safety-related incidents or accidents to the HSO and project manager
- Assist project managers in all aspects of implementing health and safety plans
- Maintain health and safety equipment on site
- Implement emergency procedures as required

Authority

- Can temporarily suspend field activities if health and safety of personnel are endangered, pending further consideration by the HSO and/or CHSO
- Can temporarily suspend an individual from field activities for infractions of the health and safety plan, pending further consideration by the HSO and/or CHSO

4.0
SITE DESCRIPTION

Section 4.0, Site Description, is modified by the addition of Section 4.4, modifying Figure 4-3 to show the additional work site, and adding Figure 4-6 as follows:

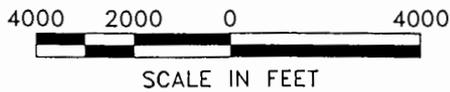
4.4 POL WASHRACK DISCHARGE AREA (SITE SD-47)

The POL Storage Area is located in the southeastern section of Holloman AFB, just east of the main runways, within the POL yard. The POL Washrack Discharge Area is located west of the washrack and southwest of Buildings 702 and 704 (Figure 4-3). The POL Area was not identified as a significant concern for adverse effects on health or the environment during the Phase I investigation (CH2M Hill 1983). However The POL Storage Area was subsequently added to the scope of the RI when the Drum Storage Area and the Washrack Discharge Area were identified as concerns (Walk, Haydel & Associates 1989). Also within the general vicinity of the POL Area are Site 3 (SWMU 114) - POL Tank Sludge Burial Area, and Sites 2 & 5 (SWMU OAC-T) - POL Storage Tank Leaks. These sites are to the north of the SD-47 site, and it is not known as to whether they influence conditions at SD-47. The scope of current work at SD-47 is limited to investigation of the Washrack Discharge Area including the area surrounding the washrack.

The POL Washrack was built and put into operation in 1953. At the time it had no oil/water separators, and the wash water flowed directly to the nearby drainage ditch. Oil/water separators were installed at the washrack in 1980 (Walk, Haydel, & Associates 1989). During the period through 1990 and 1991 improvements were made to the washrack discharge system. One of two oil/water separators was abandoned in place, and the other one was replaced with a reinforced concrete oil/water separator. The 8" discharge line was abandoned, and wastewater was routed through a new 8" PVC line which connects to the sanitary sewer system. With a sanitary sewer line to the site, the septic tank and drain field serving Building 702 were also abandoned (Walk, Haydel, & Associates 1993).

In 1991 it was decided to remediate the SD-47 site with a Rapid Response Contractor. The work was completed without finding the suspected underground storage tank, and the excavation of the discharge area outside the POL fence to the west of the washrack revealed contaminated soil at the fence line on the east edge of the excavation. Analysis of soil samples near the POL fence confirmed the detection of benzene (650 $\mu\text{g}/\text{kg}$), ethylbenzene (18,000 $\mu\text{g}/\text{kg}$ and 3,900 $\mu\text{g}/\text{kg}$) and total xylenes (6,600 $\mu\text{g}/\text{kg}$).

PROJECT LOCATION

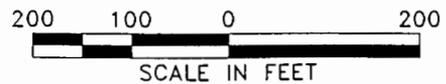
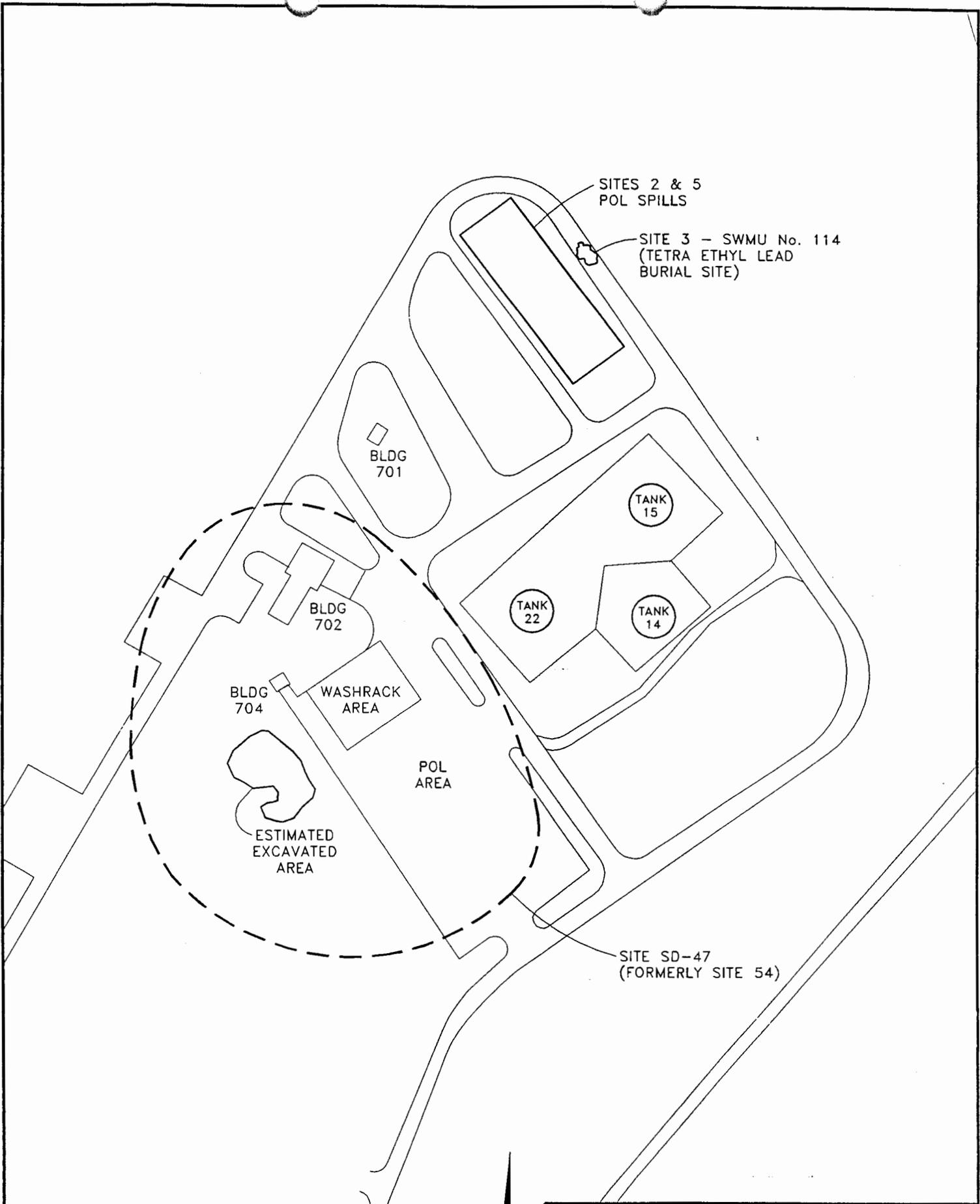


**SITE LOCATIONS
HOLLOMAN AIR FORCE BASE NEW MEXICO**

DRN BY: CJG	DATE: 07/15/93	PROJECT NO. C3M11P	FIG. NO 4-3
CHK'D BY:	DATE:		

067 11, 1993 11-13
CAD FILE: C3M11P.DWG

CAD FILE: C3M11P03.DWG V=FIG-4 08/11/1993 11:02



SD-47 SITE PLAN HOLLOMAN AIR FORCE BASE NEW MEXICO			
DRN BY: CJG	DATE: 07/20/93	PROJECT NO. C3M11P	FIG. NO. 4-6
CHK'D BY:	DATE:		

DESCRIPTION OF WORK

The tasks to be performed are:

- Task 1 Collection and analysis of soil gas samples
- Task 2 Collection and analysis of groundwater screening samples
- Task 3 Drilling test borings using hollow-stem auger drilling techniques
- Task 4 Collection and analyses of soil samples
- Task 5 Installation of groundwater monitoring wells using hollow-stem auger drilling techniques
- Task 6 Development and sampling of all monitoring wells installed
- Task 7 Sample preparation and shipment
- Task 8 Slug testing of monitoring wells that do not contain free product
- Task 9 Bail-down testing of monitoring wells that do contain free product

9.0
EMERGENCY RESPONSE

9.1 EMERGENCY SERVICES

9.1.1 Emergency Phone Numbers

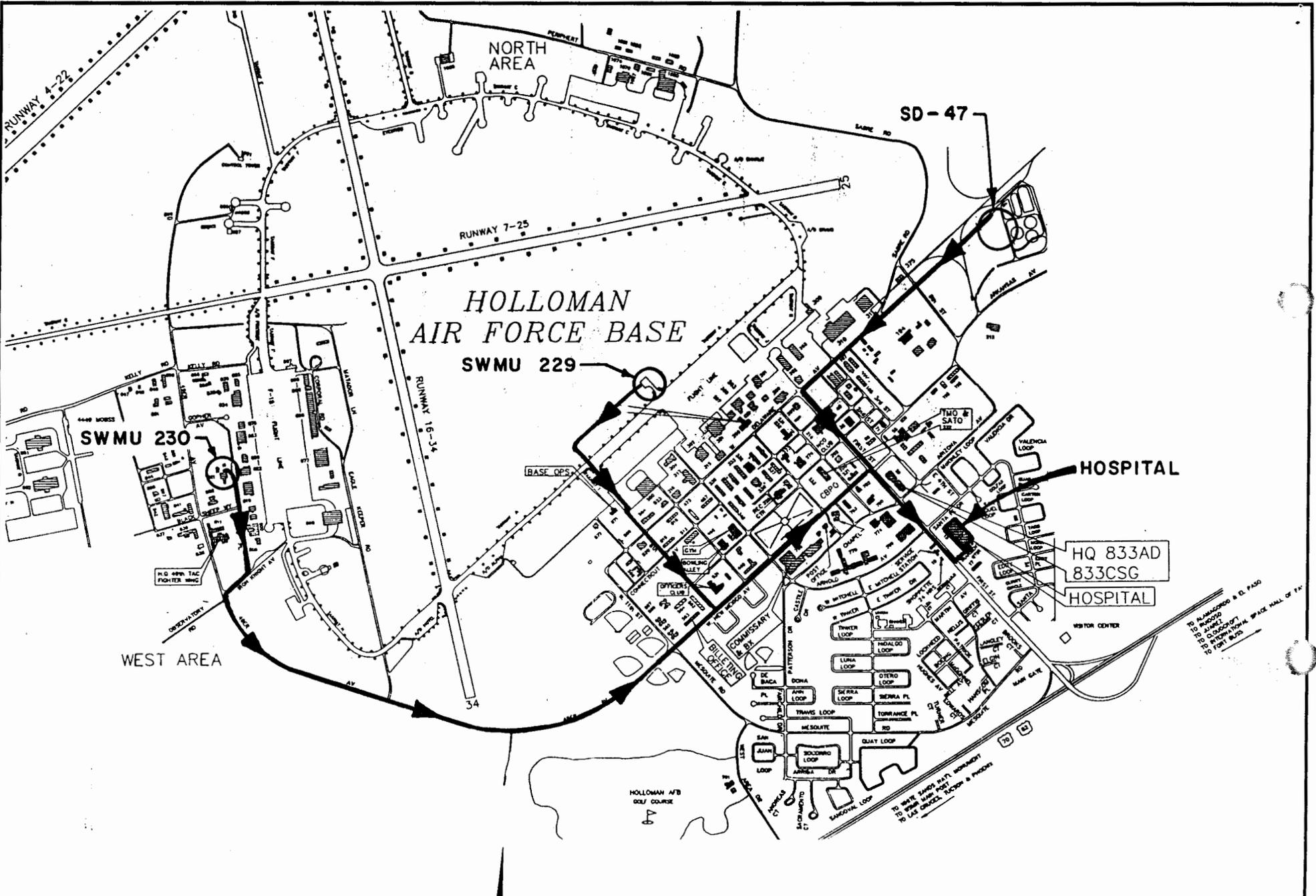
Holloman AFB does not have a 911 emergency response communications network in place. Emergency telephone numbers are:

Ambulance (Holloman AFB)	3111
Fire Department (Holloman AFB)	1117
833rd Medical Group Hospital Emergency Room	3260
Holloman AFB Base Environmental Coordinator <i>Warren Neff</i>	5062

9.1.2 Hospital

The nearest hospital to this site is the 833rd Medical Group Hospital on Holloman AFB. This facility has an emergency room, and will accept contractor personnel. The location of this facility is:

833rd Medical Group Hospital
1st Street at the Main Gate
Holloman AFB



ROUTE TO HOSPITAL HOLLOMAN AIR FORCE BASE NEW MEXICO			
DRN BY: SCR	DATE: 05/20/93	PROJECT NO. C3M11P	FIG. NO. 9-1
CHK'D BY:	REVISION: 0		