Legend

HSA Sub-Area 5B Boundary

Centerline Roads
- Primary Roads
- Secondary Roads
- Tertiary Roads

Buildings
- Demolished
- Existing
- Parking Lots

Surface Water
- Intermittent Stream
- Permanent Stream
- Surface Water
- Lined Channel

Tanks
- Above ground Storage Tank
- Underground Storage Tank
- Unknown Tank Type
- French Drain Holding Tank
- Sump
- Dry Well
- Tank Footprint
- Drain
- Well
- French Drain
- Drainage
- Leach Field
- Septic System

Aerial Photography Data
- Aerial Photography Features
- Septic Tank
- Leach Field
- Cooling Fan
- Other

Utilities
- Gas
- Storm Drain
- Sanitary Sewer
- Water
- Water (Removed)

Surface Features
- Channel
- Drain
- Drain
- Drainage Divide
- Gutter
- Tank
- Tank
- Vault
- Well

Aerial Photography Descriptors

Tow	Sanitation
B	Building
CONT	Container
CR	Crane
DB	Debris
DG	Disturbed Ground
DTM	Dark Tone Material
EX	Excavation
FA	Fill area
GS	Ground Tank
HT	Horizontal Tank
IM	Impoundment
MTMM	Medium Toned Mounded Material
OS	Open Storage
PA	Processing Area
PL	Pipeline
PODS	Possible
PROB	Probable
S.T	Storage Tank
SS	Smoke Stack
ST	Storage
UO	Unidentified Object
VT	Vertical Tank
WDA	Waste Disposal Area

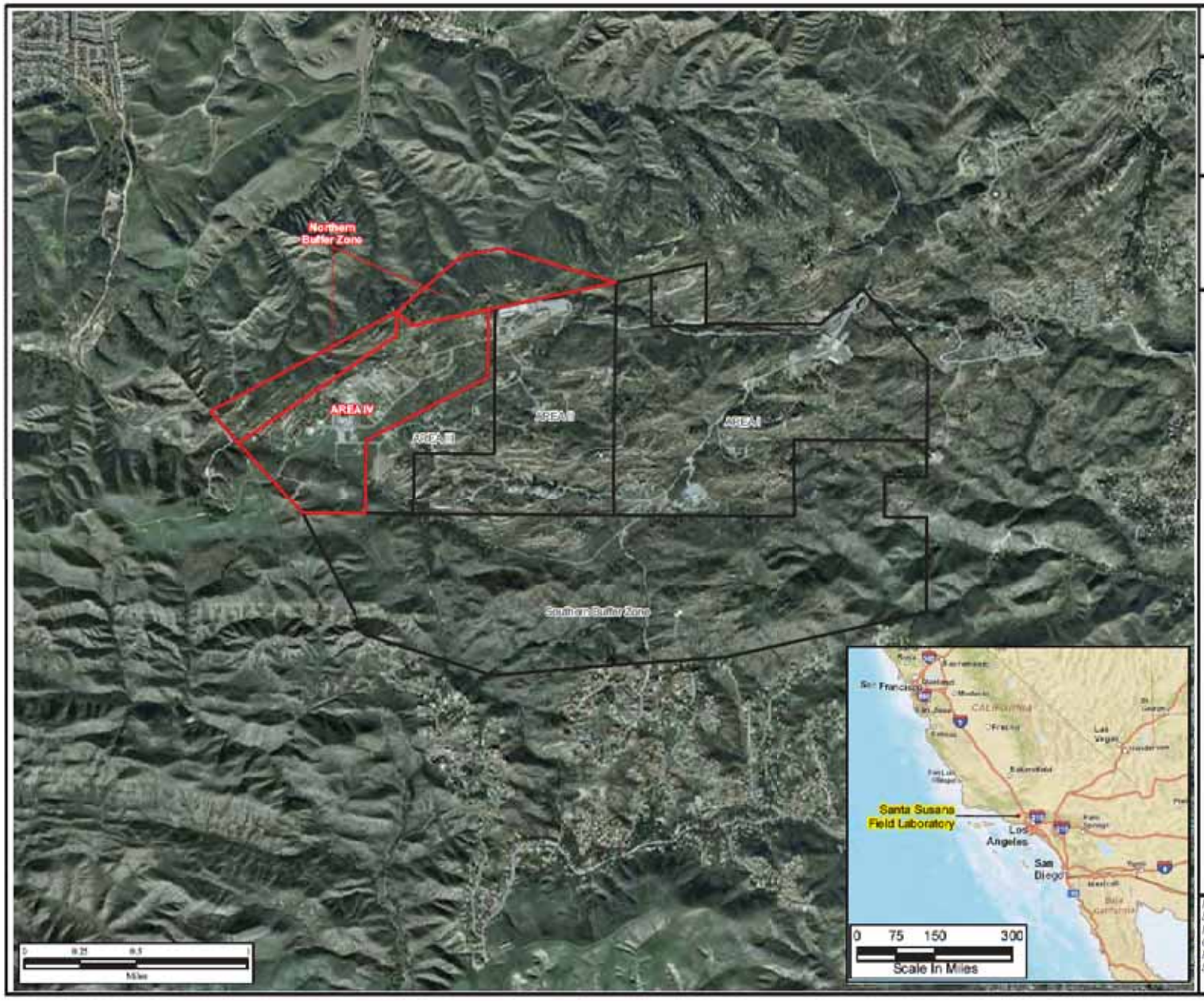
0 50 100 200
Scale in Feet

Historical Site Assessment
Draft Technical Memorandum - HSA-5B

Plate 1
Subarea HSA-5B
Santa Susana Field Laboratory

U.S. EPA Region 9

HGL



Historical Site Assessment
Draft Technical Memorandum - HSA-5B

Figure 1.1
Site Location
Santa Susana Field Laboratory

U.S. EPA Region 9

Legend

EPA Study Area Boundary; Area IV and Northern Buffer Zone

Santa Susana Field Laboratory Property Boundary

N

Filepath: Y:\Santa_Susana\EP9038\TM\HSA_5B(1-01)
SiteMap_Updated.mxd
Project: EP9038
Created: CLamoges
Revised: 09/01/2010 TJ
Source: CaSil, NAIP 2009; Boeing 2005

HGL

Historical Site Assessment
Draft Technical Memorandum - HSA-5B

Figure 1.2
General Site Layout for
Area IV/HSA Subareas
Santa Susana Field Laboratory

U.S. EPA Region 9

Legend

HSA Subarea

Buildings

Existing

Removed

N

0 250 500 1000
Scale In Feet

Filepath: Y:\Santa_Susana\EP9038\TM\HSA_5B\(1-02)site_layout.mxd
Project: EP9038
Created: CLimogen
Revised: 09/03/2008 TJ
Source: Boeing Company, 2008
CDFGIS, 2007

HGL

Figure 1.3
Subarea HSA-5B
Santa Susana Field Laboratory

U.S. EPA Region 9

Legend

Buildings

- Existing
- Removed
- Surface Water
- Lined Channel
- Intermittent Stream*
- Pipe (Unknown Type)

*Intermittent streams also represent unlined channels.

N

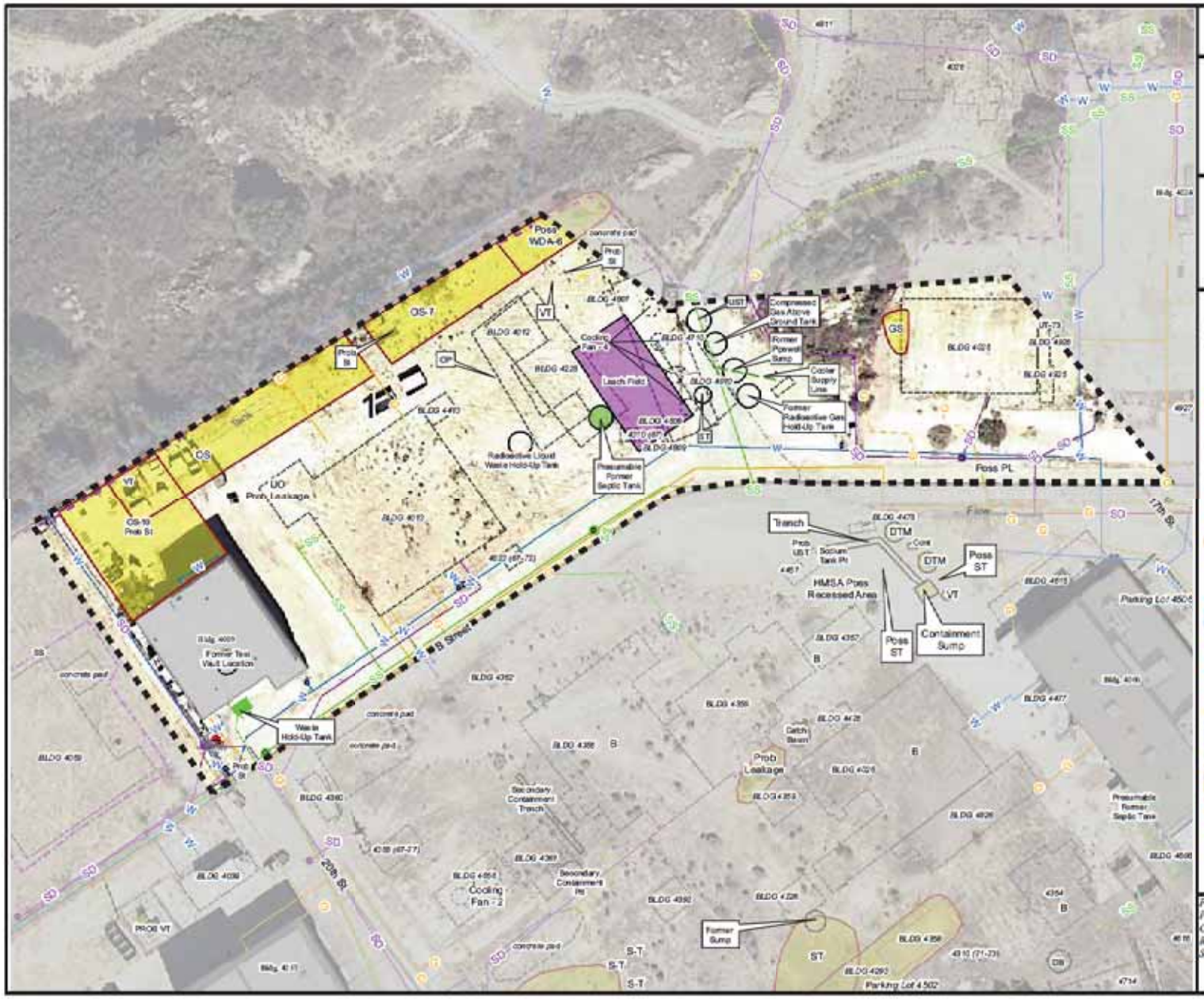
0 50 100 200
Scale in Feet

Filepath: Y:\Santa_Susana\EP9038\TM\HSA_5B\subarea_HSA_5B.mxd
Project: EP9038
Edited: 05/04/2010 JP
Source: Boeing Company, 2008
CDM GIS, 2007

HGL

Figure 2.1
Area IV Subarea 5B-1
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

- Subarea 5B-1 Boundary
- Primary Roads
- Secondary Roads
- Underground Storage Tank
- Unknown Tank Type
- Sump
- Dry Well
- Tank Footprint
- Above ground Storage Tank
- Demolished Bldg.
- Existing Bldg.
- Parking Lots
- Drainage
- Drain
- Well

Aerial Photo Features

- Aerial Photography Features
- Leach Field
- Other

Surface Water

- Intermittent Stream
- Permanent Stream
- Surface Water
- Lined Channel
- French Drain
- Drainage
- Leach Field
- Septic System

Utilities

- Channel
- Drain
- Drain
- Drainage Divide
- Gutter
- Tank
- Tank
- Vault
- Well
- Gas
- Storm Drain
- Sanitary Sewer
- Water

B	Building
CONT	Container
CR	Crates
DB	Debris
DG	Disturbed Ground
DTM	Dark Tone Material
EX	Excavation
FA	Fill Area
GS	Ground Scar
HT	Horizontal Tank
IM	Impoundment
MTMM	Medium Toned Mounded Material
OS	Open Storage
PA	Processing Area
PL	Parking Lot
POSS	Possible
PROB	Probable
S-T	Storage Tank
SS	Smoke Stack
ST	Storage
UO	Unidentified Object
VT	Vertical Tank
WDA	Waste Disposal Area

0 25 50 100
Scale in Feet

N

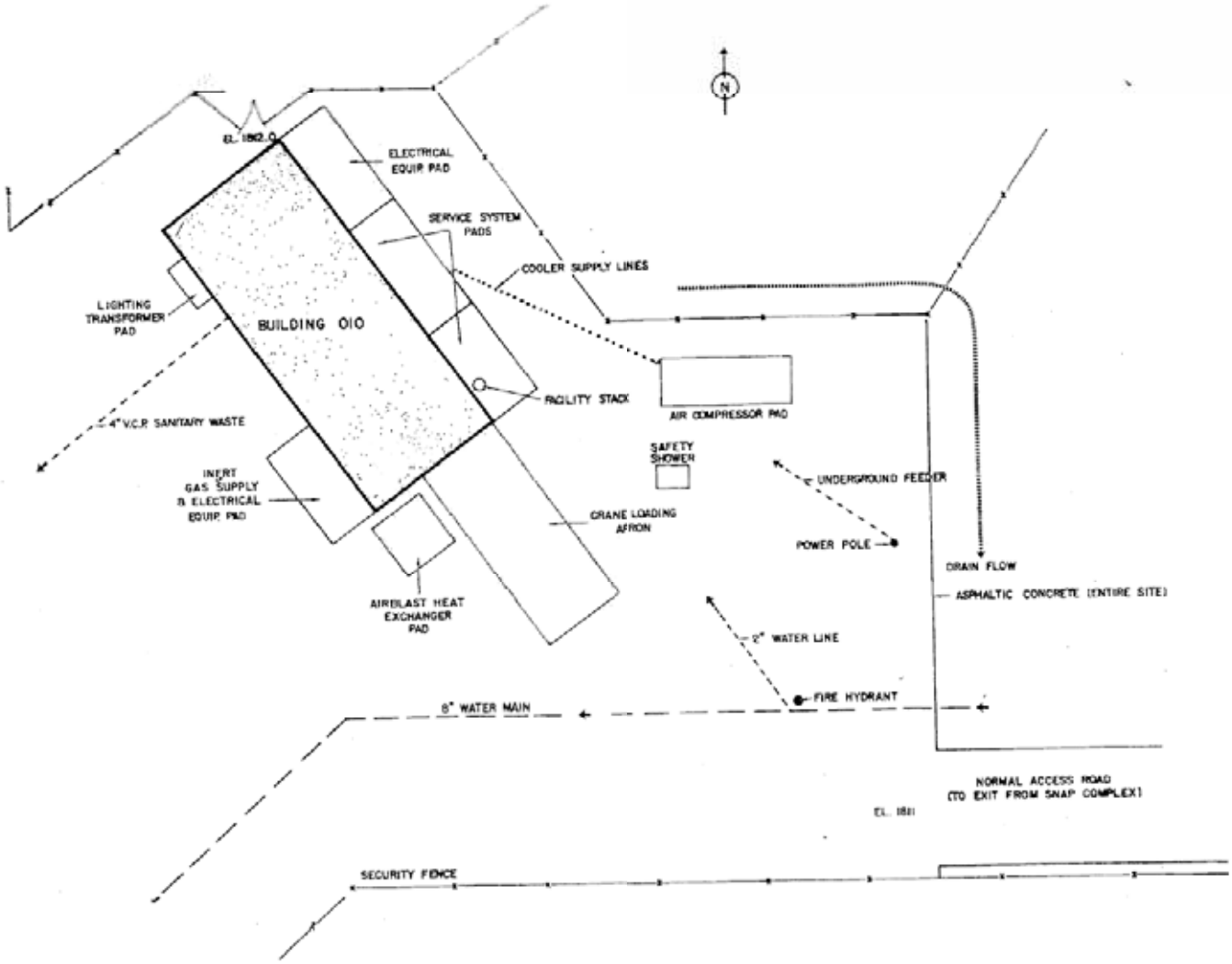
Filepath: T:\Santa_Susana\EP9038\TM\HSA_5B(2-1)5B-1.mxd
Project: EP9038
Created: TJansen
Revised: 10/25/2010 TJ
Source: Boeing Company, 2008
CIRGIS, 2007

HGL

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-1a)bldg4010.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.1a
Building 4010
Site Photograph

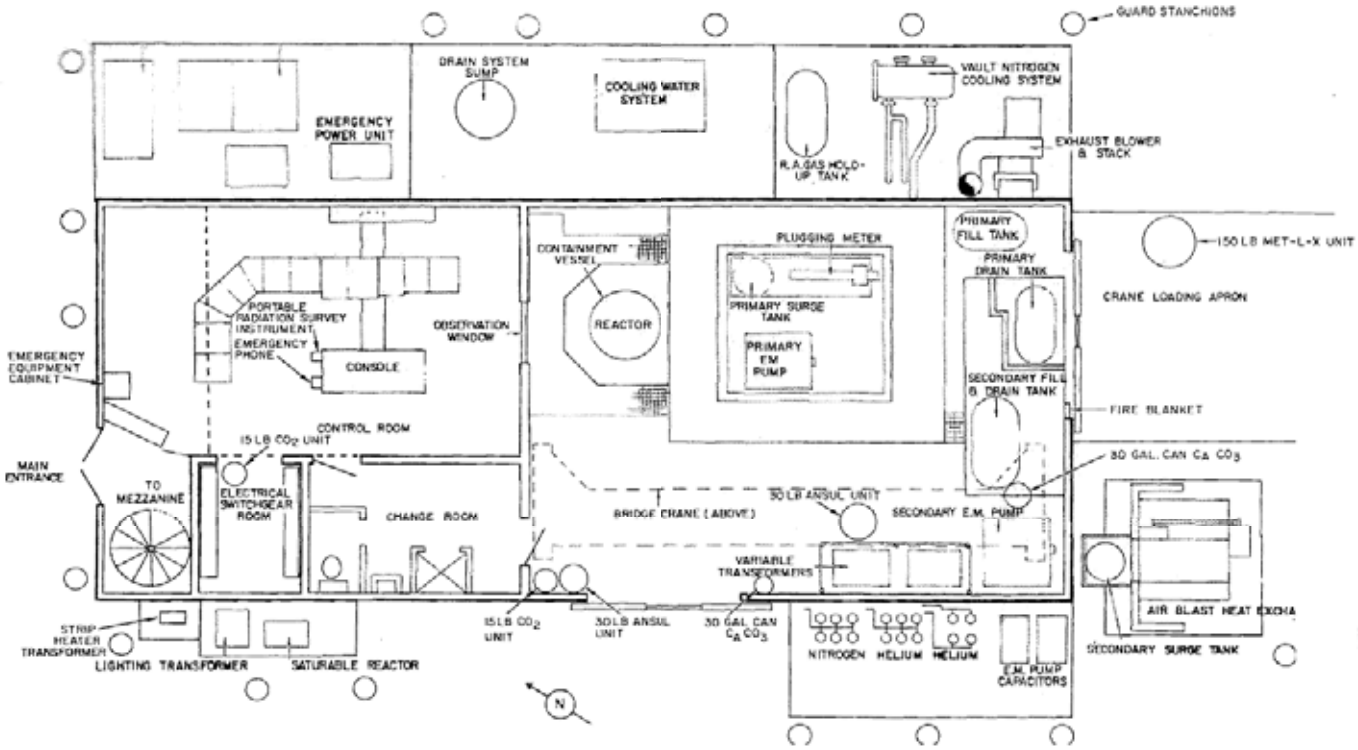


Building 4010 Plot Plan

Y:/Santa Susana/EP9038/TM/HSA_5B (2-1-1b)bldg4010PP.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.1b Building 4010 Plot Plan



SNAP 8 Experimental Reactor Building 4010

Y:/Santa Susana/EP9038/TM/HSA_5B (2-1-1c)bldg4010FP.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.1c
Building 4010
Floor Plan

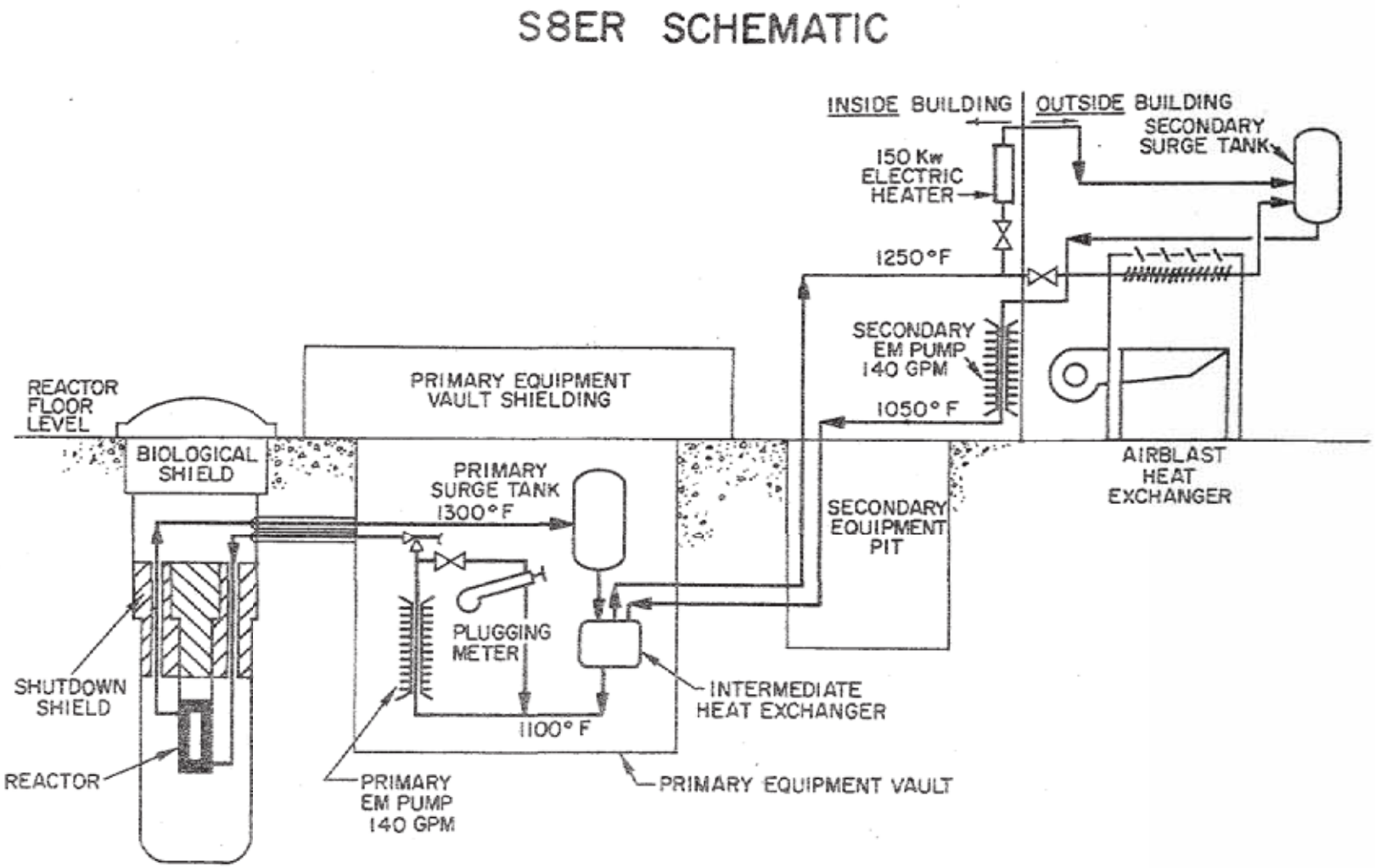
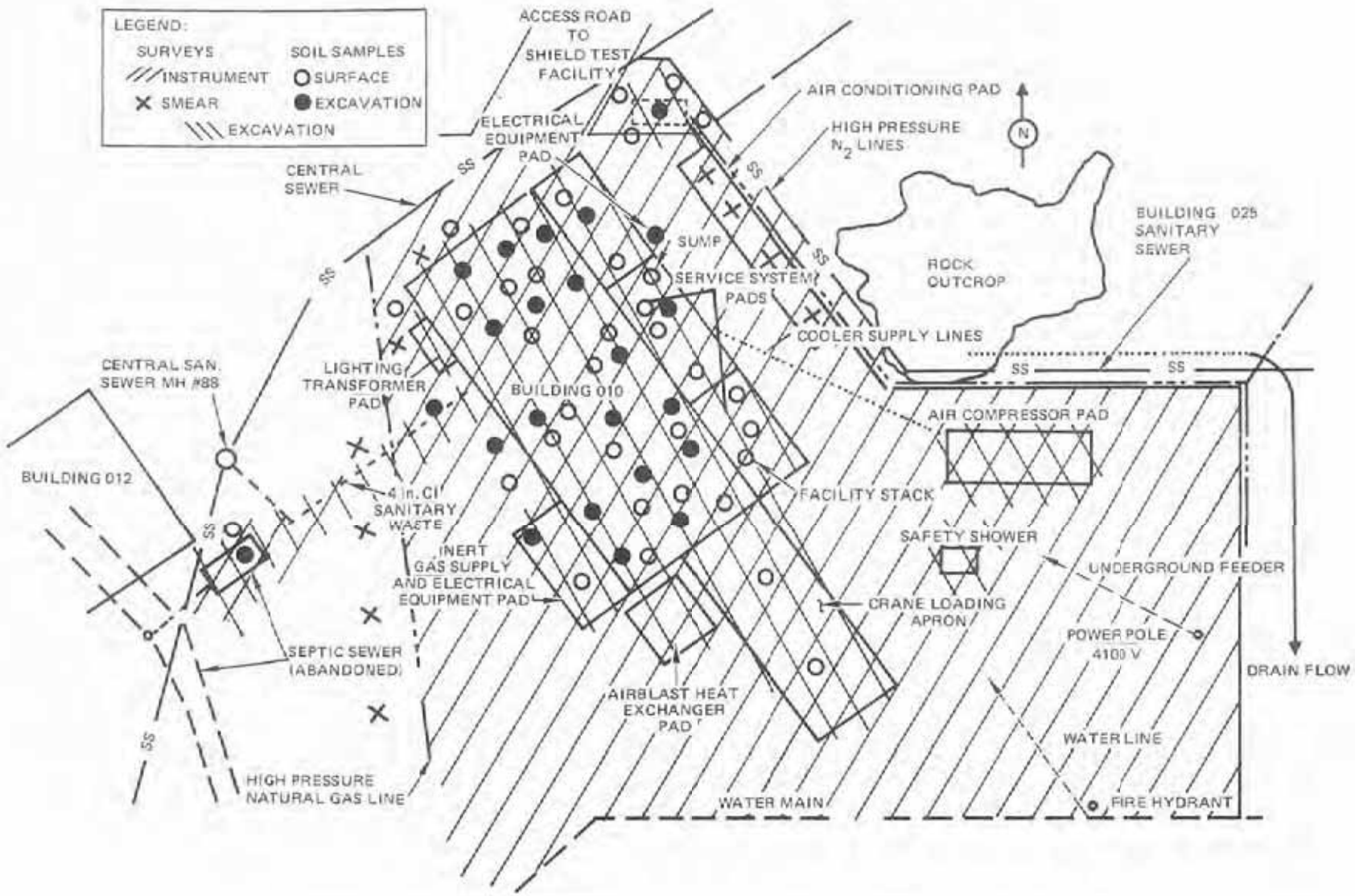


Figure Not to Scale

Y:\Santa_Susana\EP9038\TM\HSA_5B (2-1-1d)SNAP8SD.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.1d
SNAP 8 ER
Schematic Diagram



Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-1e)S8ER_FSP.cdr
Project:EP9038
Revised: 10/25/2010 TJ
Source: Boeing Company, 2008

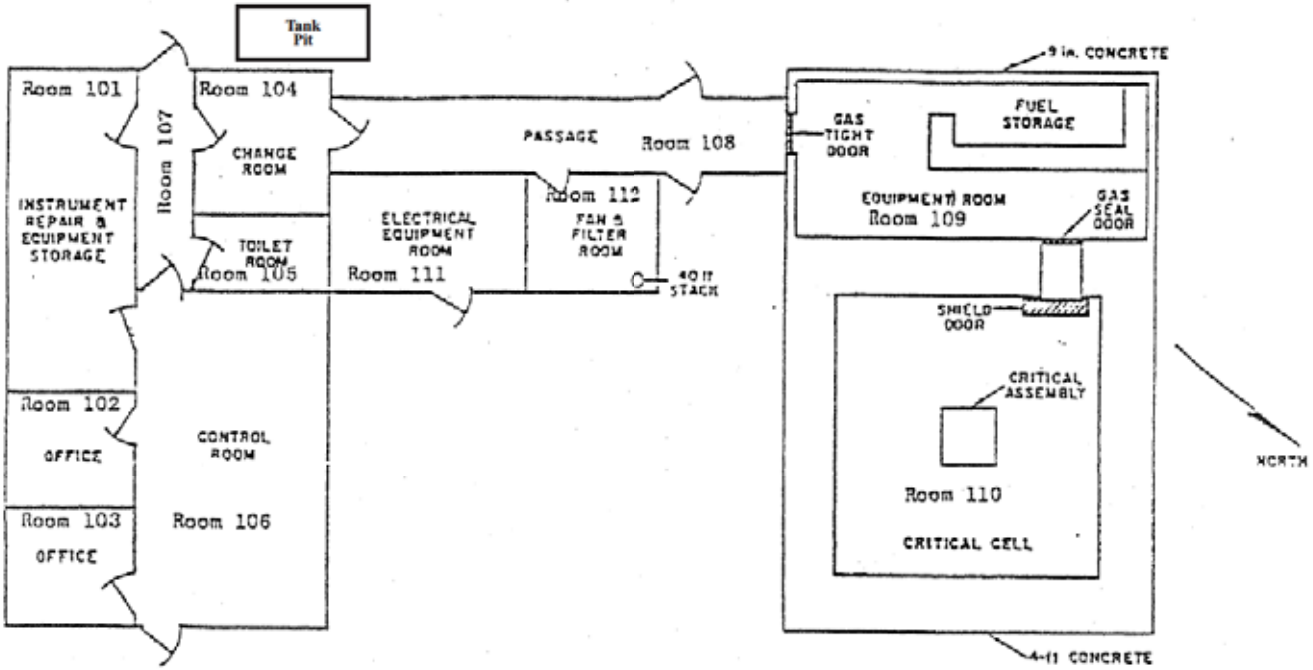
U.S. EPA Region 9

Figure 2.1.1.e
S8ER Faculty Survey Plot

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-2a)bldg4010.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.2a
Building 4012
Site Photograph

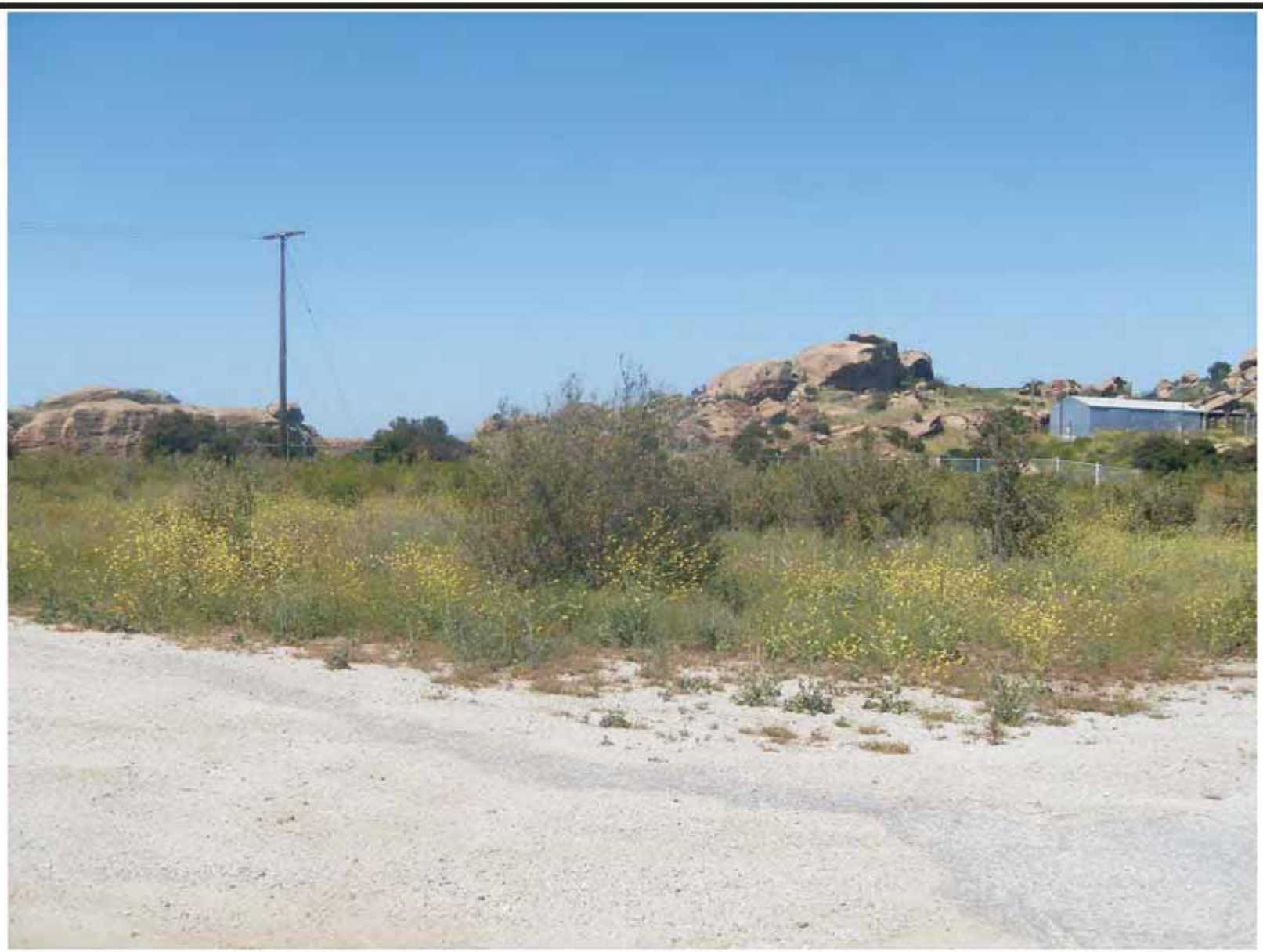


Original Building 4012 Floor Plan

Y:/Santa Susana/EP9038/TM/HSA_5B (2-1-2b)bldg4012FP.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

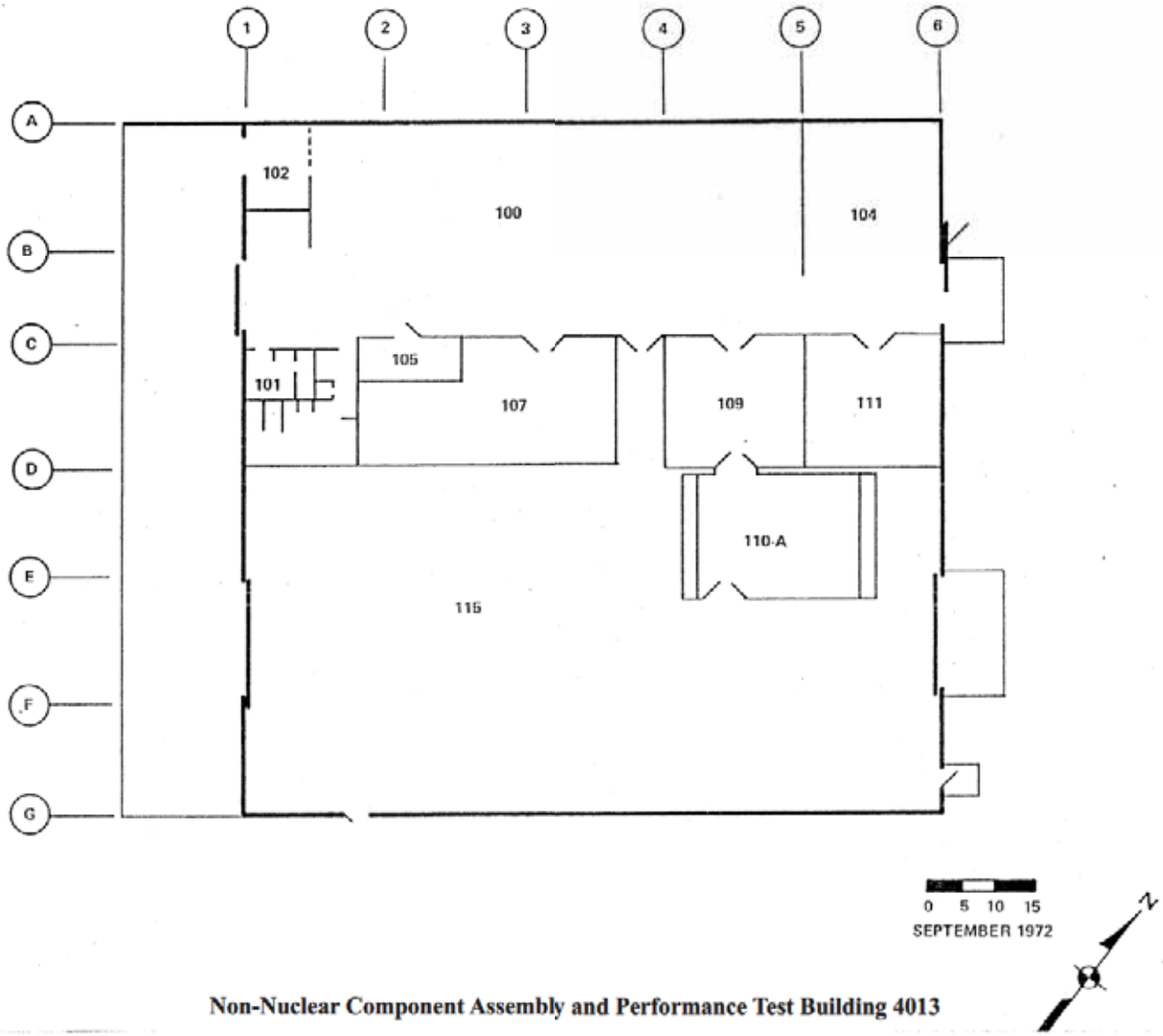
Figure 2.1.2b
Building 4012
Floor Plan



Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-3a)bldg4013.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.3a
Building 4013
Site Photograph

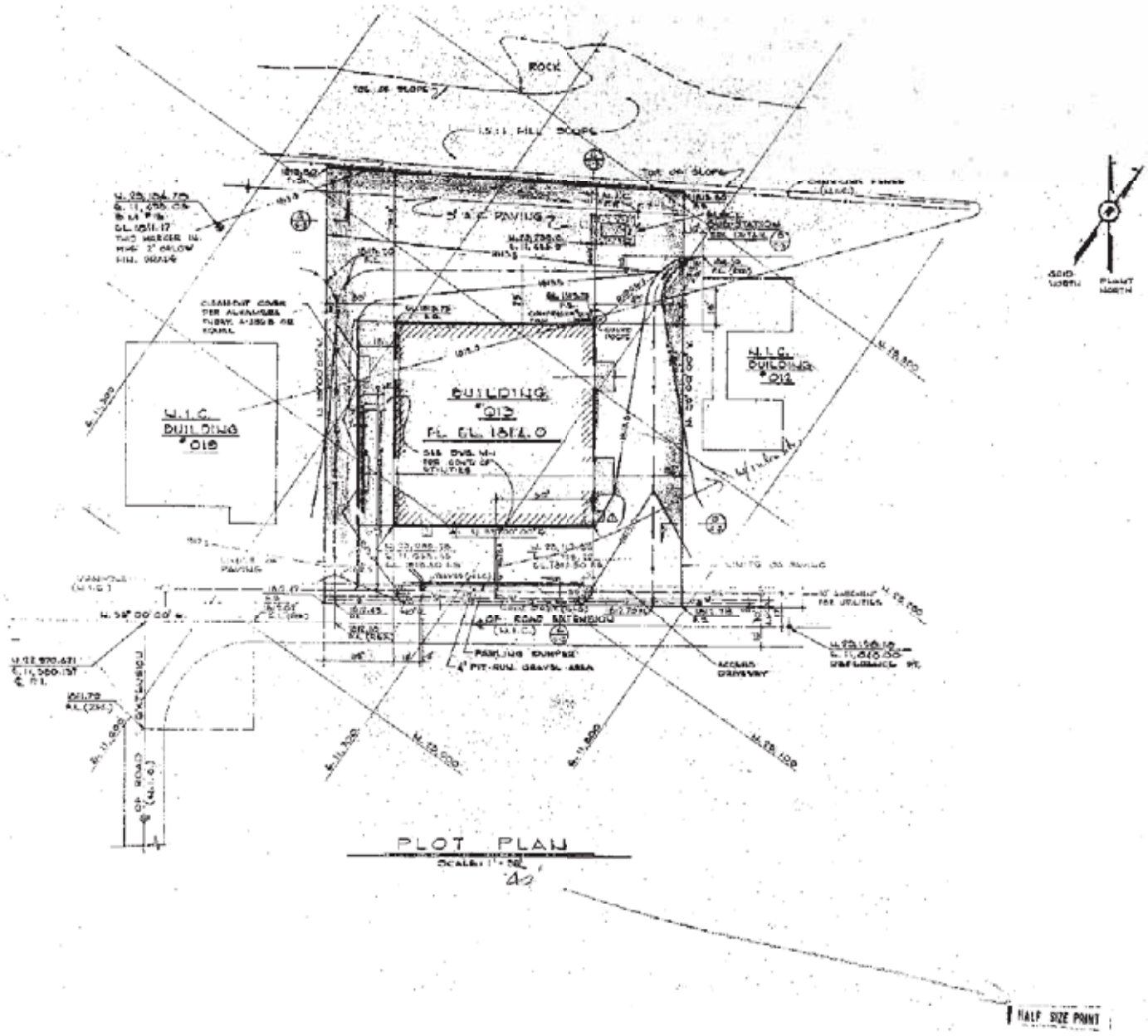


Non-Nuclear Component Assembly and Performance Test Building 4013

Y:/Santa Susana/EP9038/TM/HSA_5B (2-1-3b)bldg4013FP.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

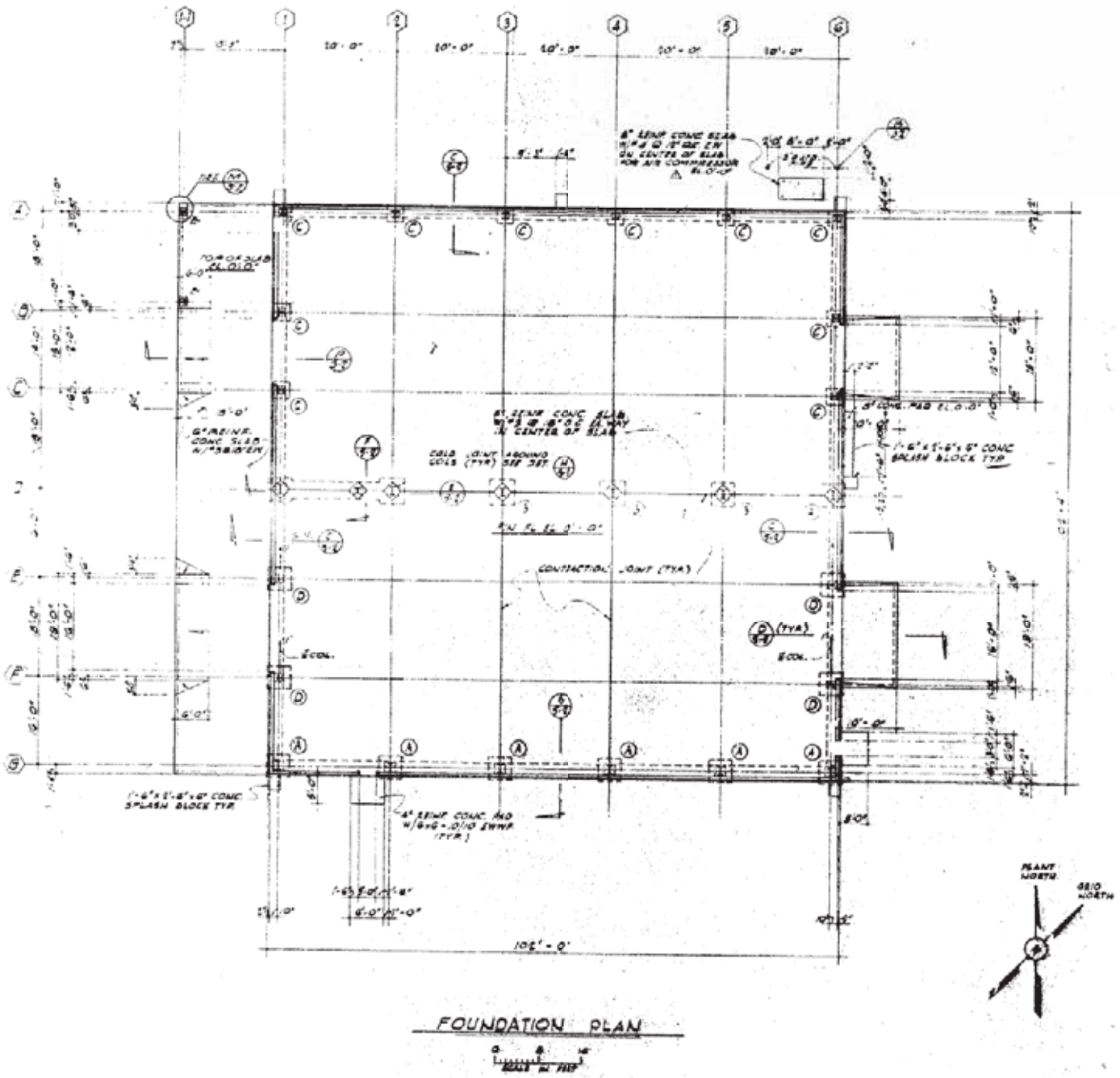
Figure 2.1.3b
Building 4013
Floor Plan



Y:/Santa Susana/EP9038/TM/HSA_5B
(2-1-3c)bldg4013ABPP.cdr
Project:EP9038
Revised: 05/03/2010 JP
Source: Boeing Company, 2008

U.S. EPA Region 9

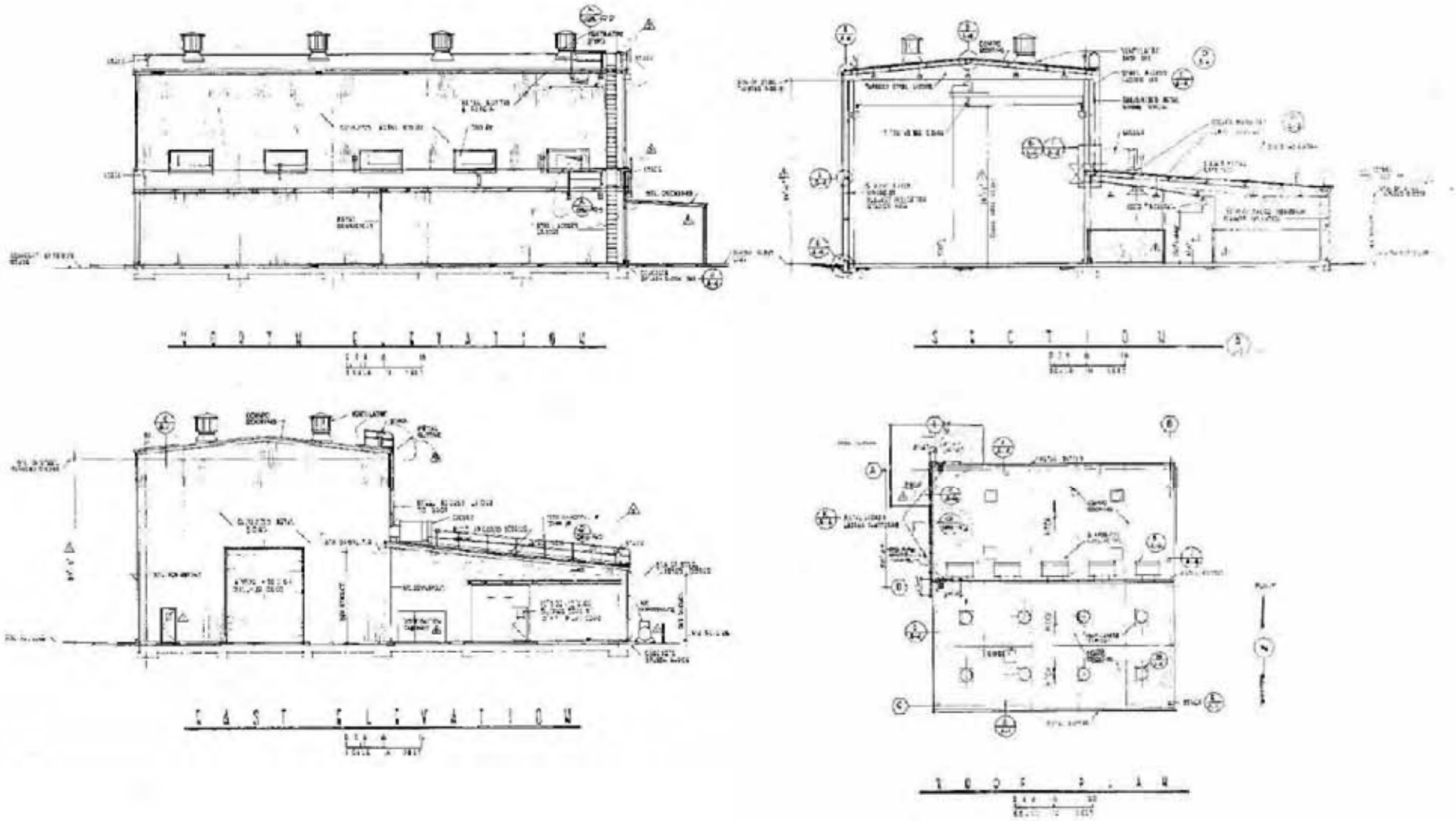
Figure 2.1.3c
Building 4013
Plot Plan



Y:/Santa Susana/EP9038/TM/HSA_5B
(2-1-3d)bldg4013ABFD.cdr
Project:EP9038
Revised: 05/03/2010 JP
Source: Boeing Company, 2008

U.S. EPA Region 9

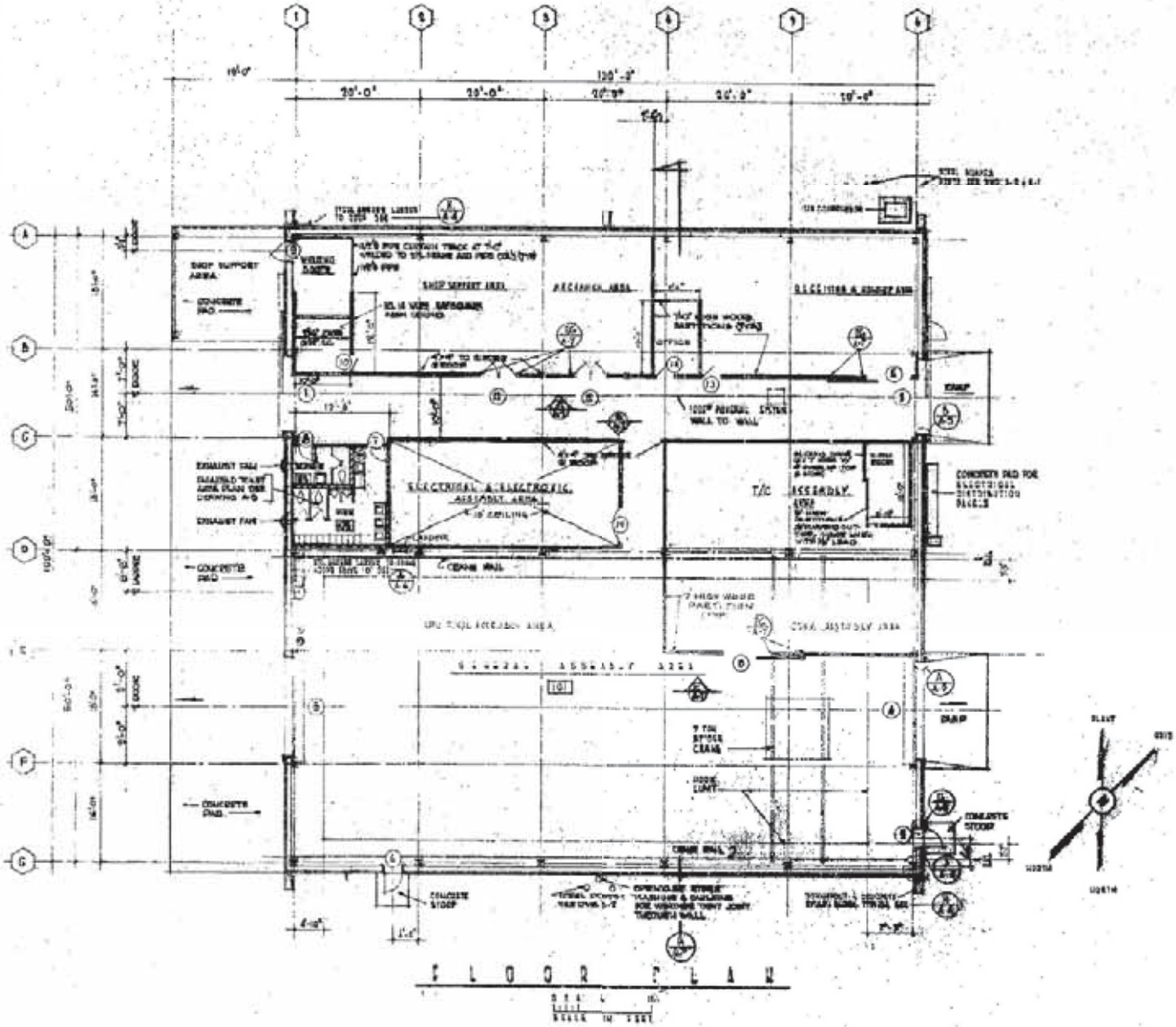
Figure2.1.3d
Building 4013
Foundation Plan



Y:/Santa_Susana/EP9038/TM/HSA_5B (2-1-3e)building4013ABER.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

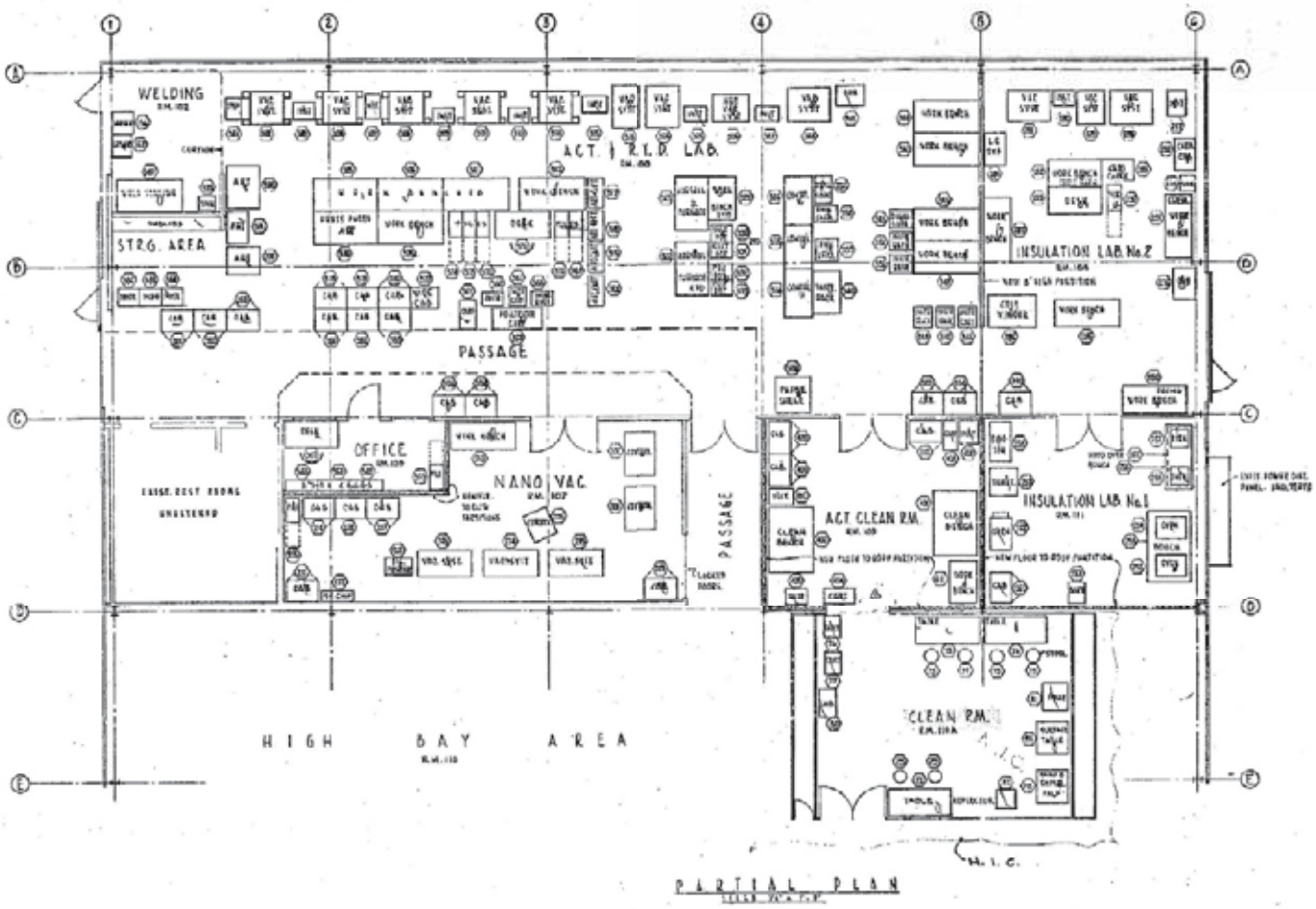
Figure 2.1.3e
Building 4013
Elevations and Roof



Y:/Santa Susana/EP9038/TM/HSA_5B (2-1-3f)bldg4013ABFP.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2-1-3f
Building 4013
Floor Plan



Y:/Santa Susana/EP9038/TM/HSA_5B
(2-1-3g)bldg4013ABRD.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.3g
Building 4013
Reactor Development Plan

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-3h)building4013PB.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.3h
Building 4013
Before Demolition

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-3)\building4013PA.cdr
Project:EP9038
Revised: 06/24/2010 RB
Source: Boeing Company, 2008

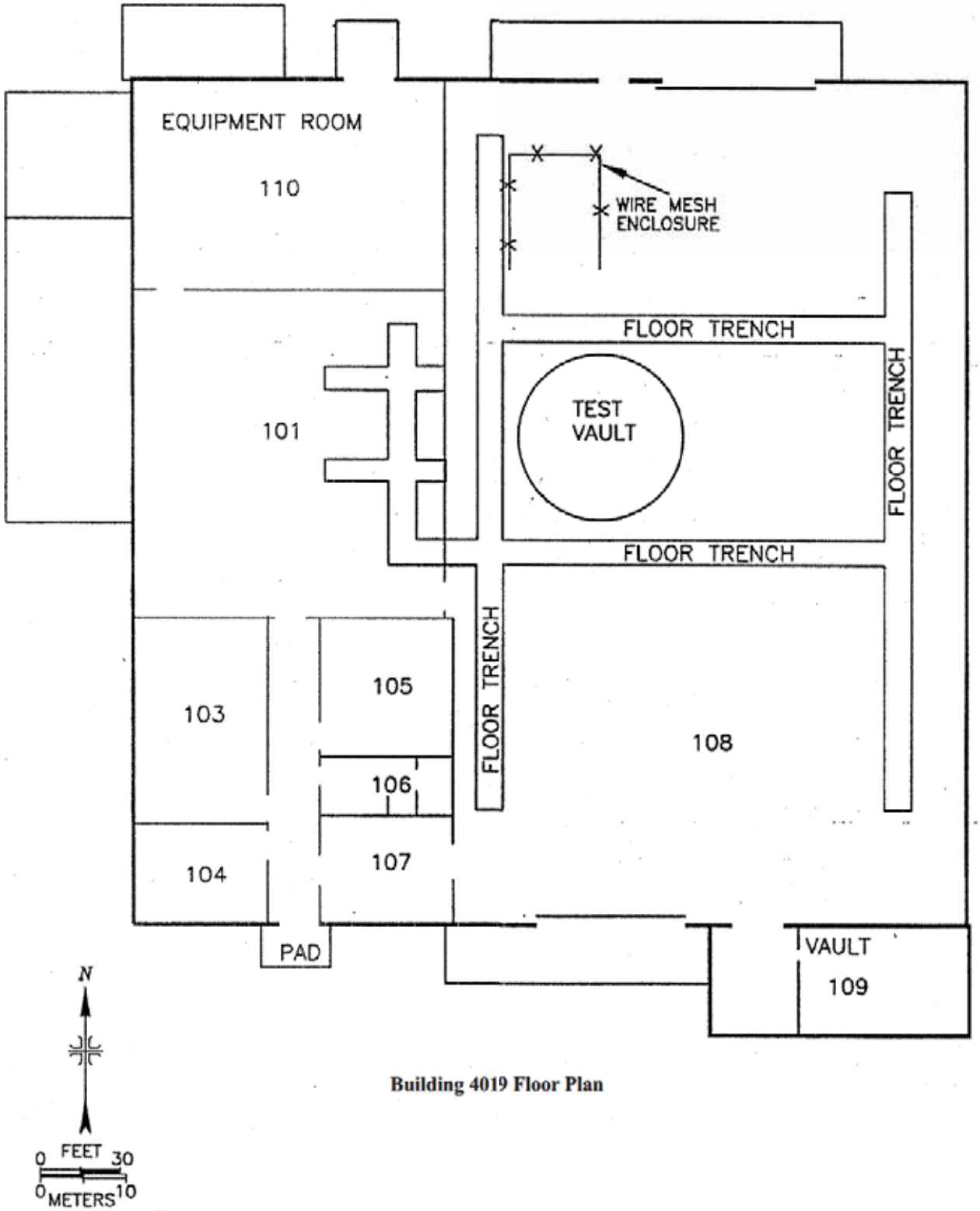
U.S. EPA Region 9

Figure 2.1.3i
Building 4013
After Demolition

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-4a)bldg4019.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.4a
Building 4019
Site Photograph



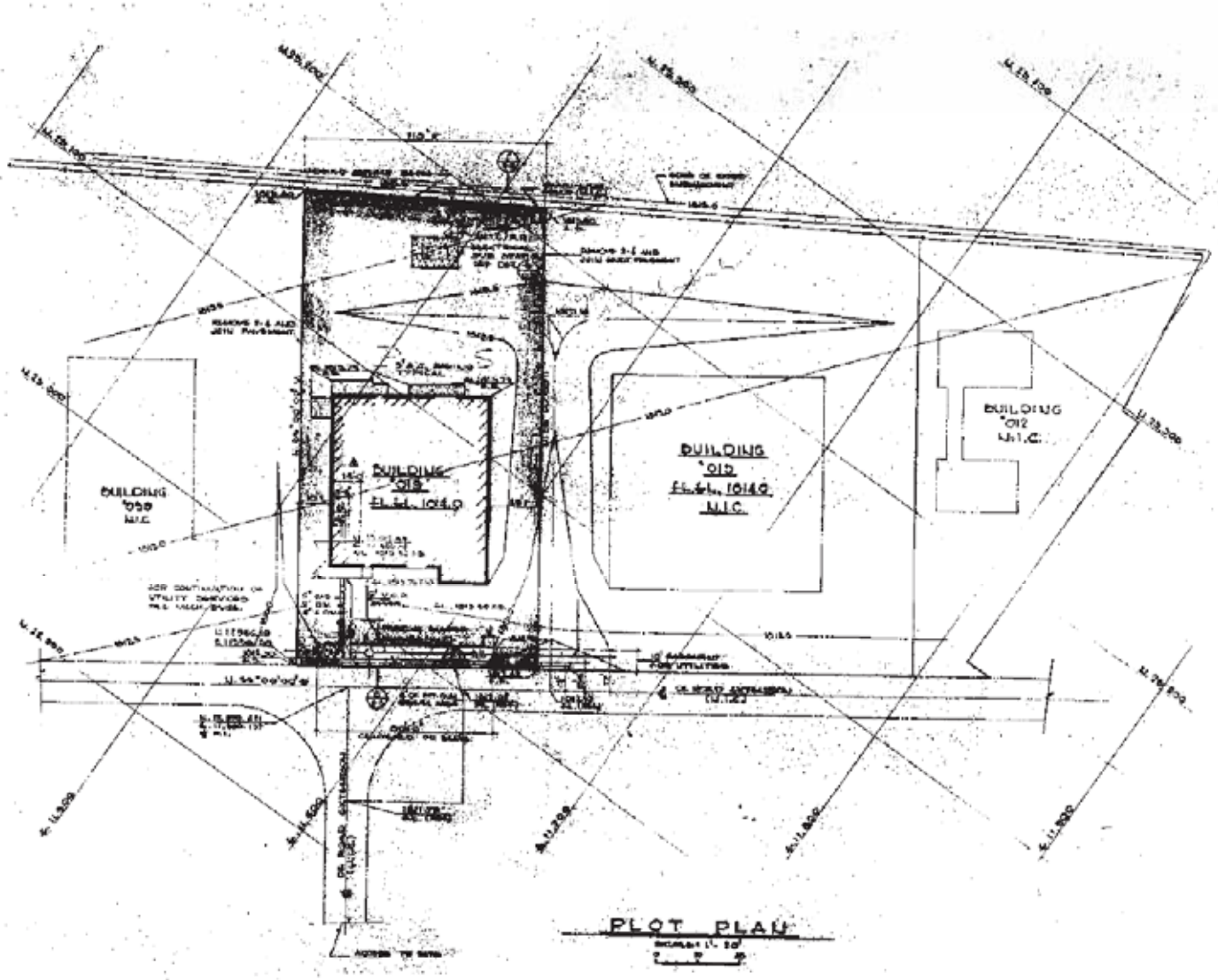
Building 4019 Floor Plan

Y:/Santa Susana/EP9038/TM/HSA_5B (2-01-04b)bldg4019FP.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

FENCE

Figure 2.1.4b Building 4019 Floor Plan

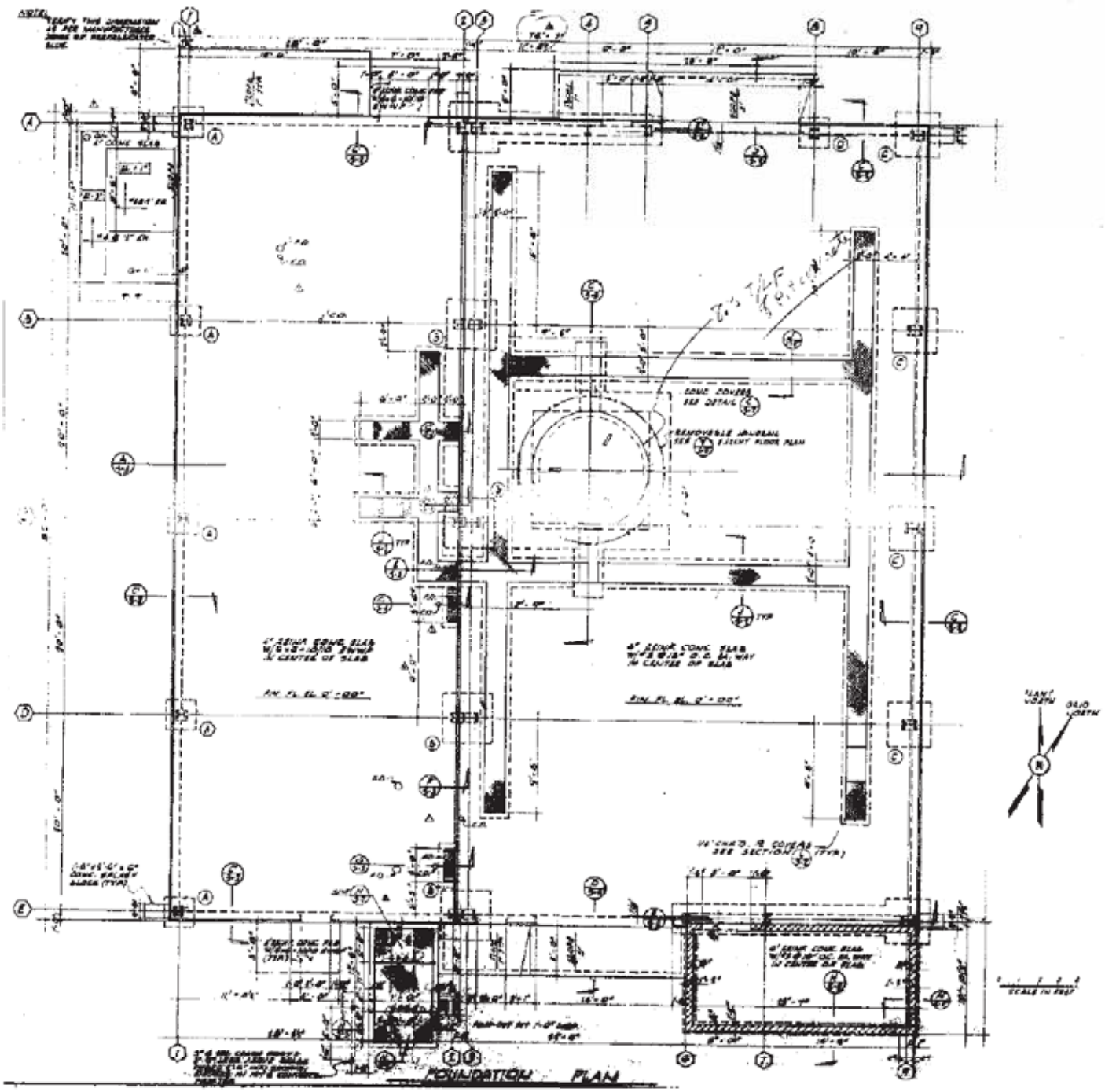


Y:/Santa Susana/EP9038/TM/HSA_5B
(2-1-4c)bldg4019ABPP.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

LEGEND:

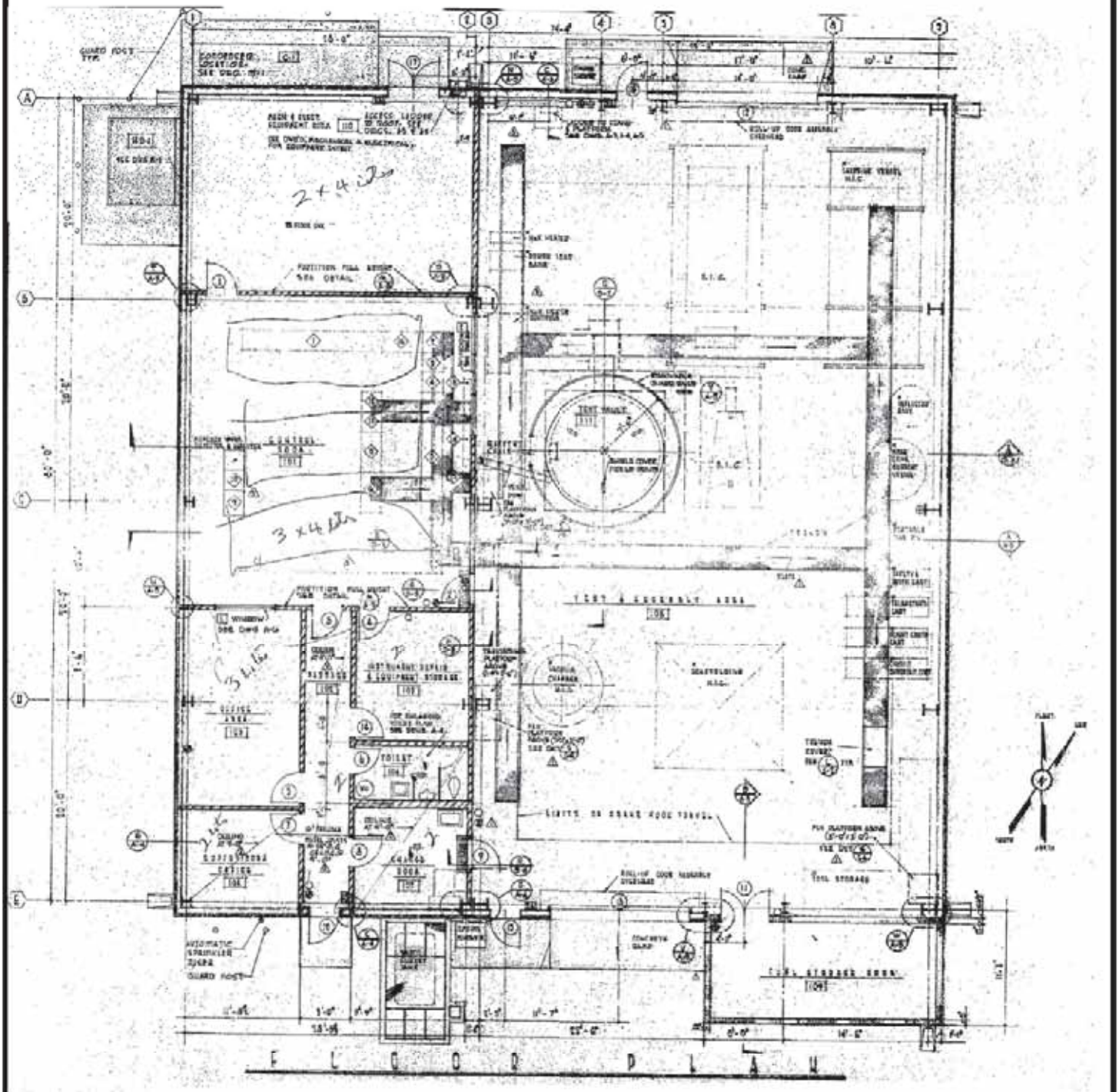
Figure 2.1.4c
Building 4019
Plot Plan



Y:/Santa Susana/EP9038/TM/HSA_5B (2-1-4d)bldg4019ABFD.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

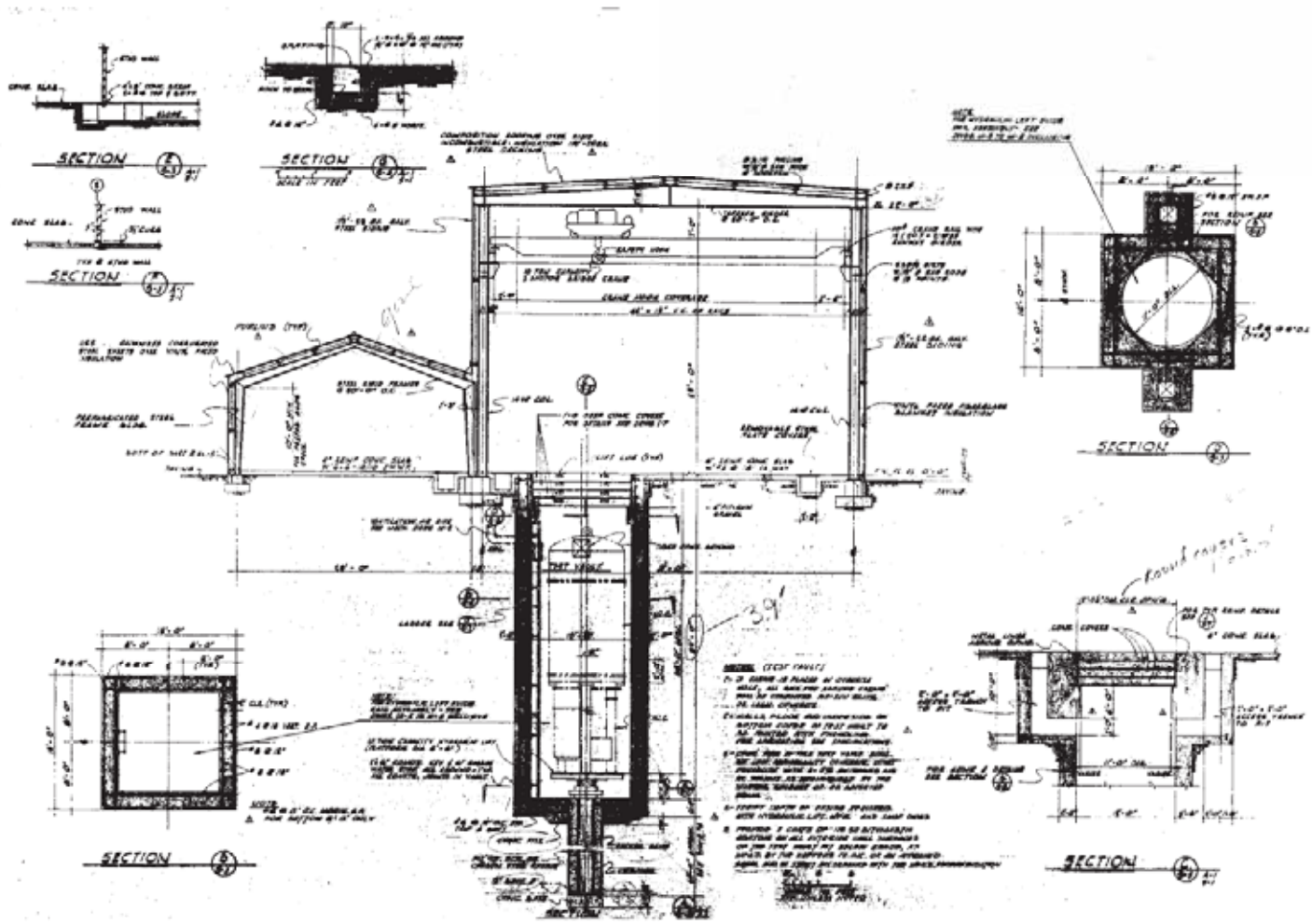
Figure 2.1.4d
Building 4019
Foundation Plan



Y:/Santa Susana/EP9038/TM/HSA_5B (2-1-4e)bldg4019ABFP.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.4e
Building 4019
Floor Plan



Y:/Santa Susana/EP9038/TM/HSA_5B (2-1-4f)bldg4019ABSS.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.4f
Building 4019
Structural Section
Plan

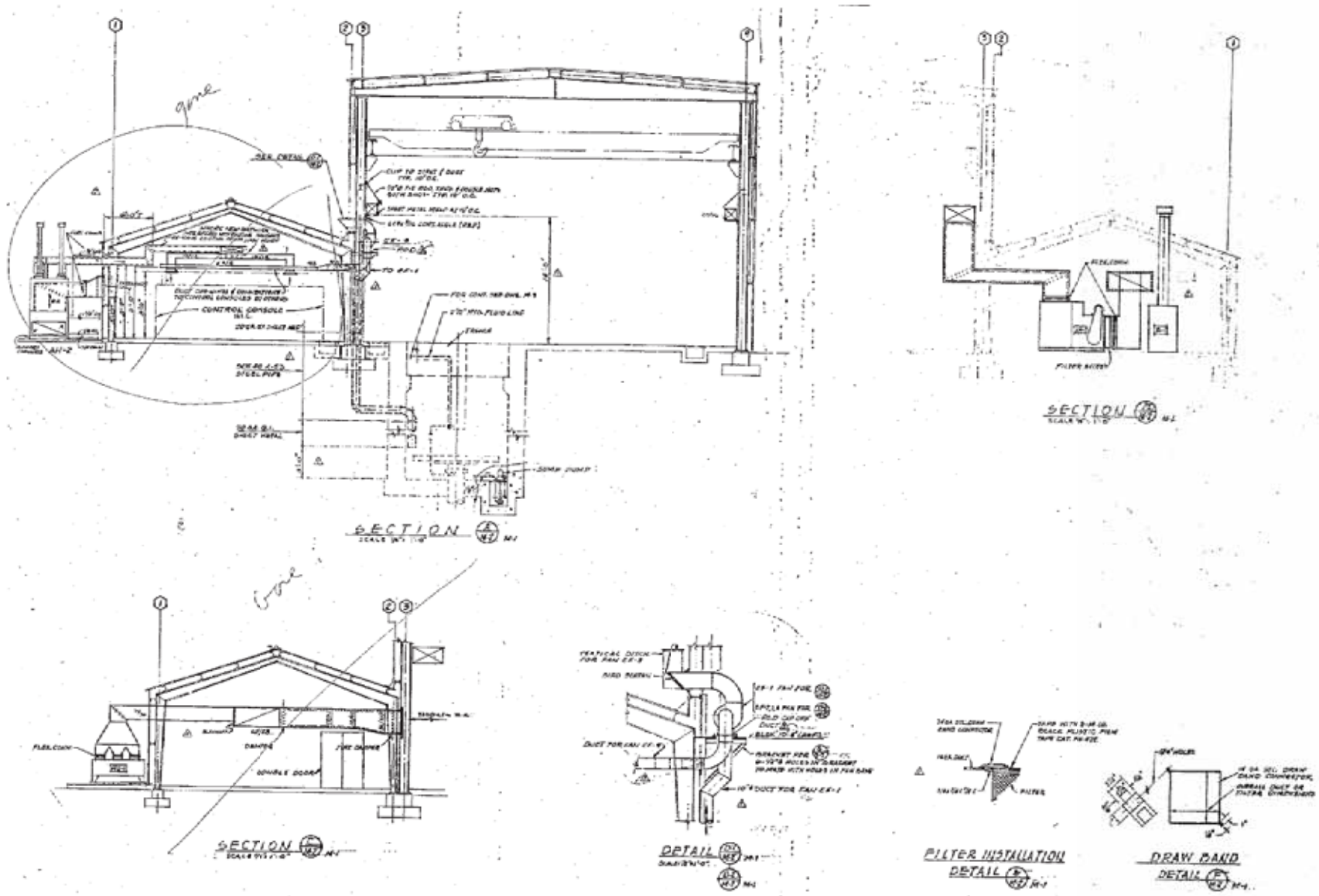
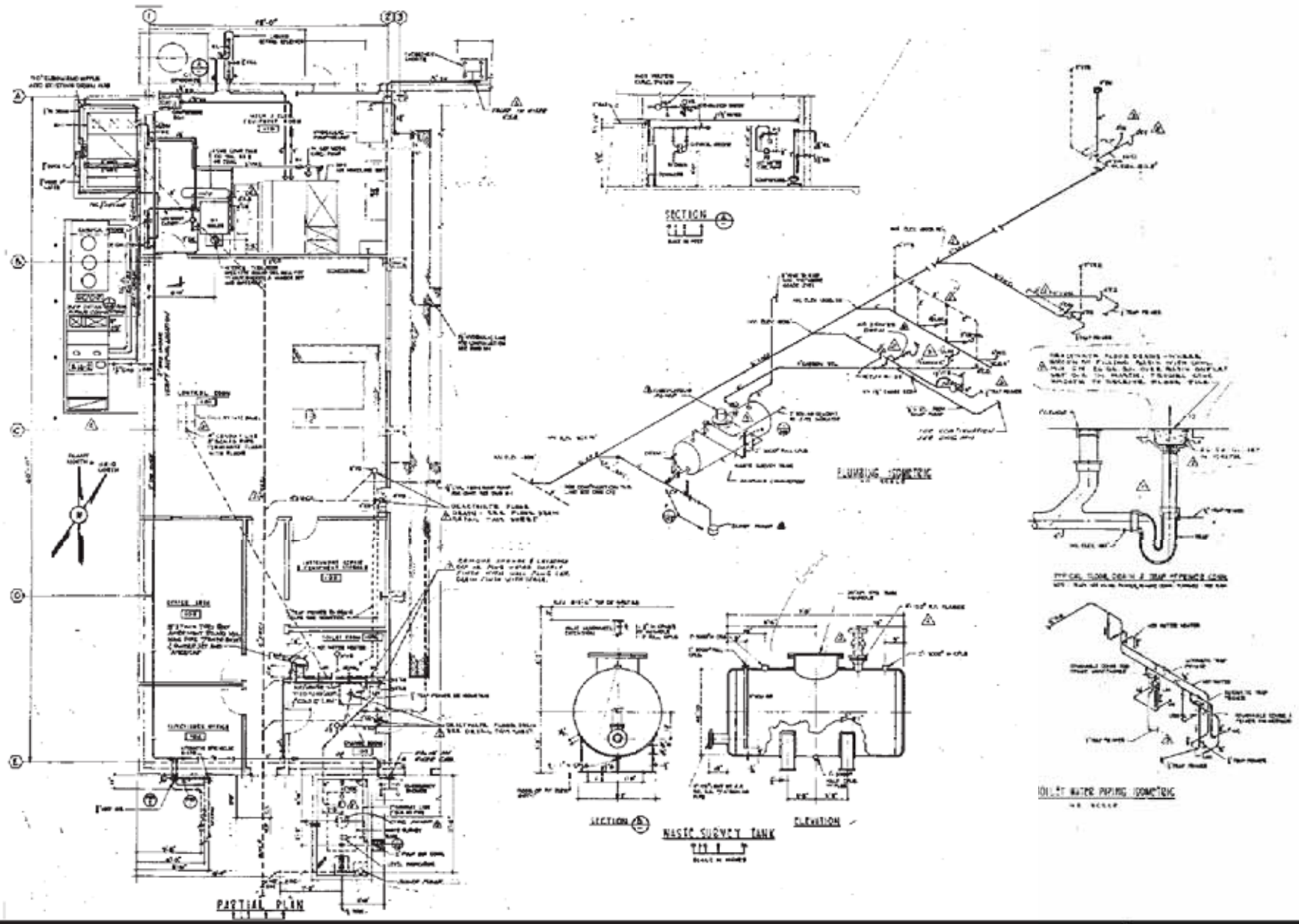


Figure Not to Scale

Y:\Santa_Susana\EP9038\TM\HSA_5B (2-1-4g)building4019ABHV.cdr
Project:EP9038
Revised: 06/24/2010 RB
Source: Boeing Company, 2008

U.S. EPA Region 9

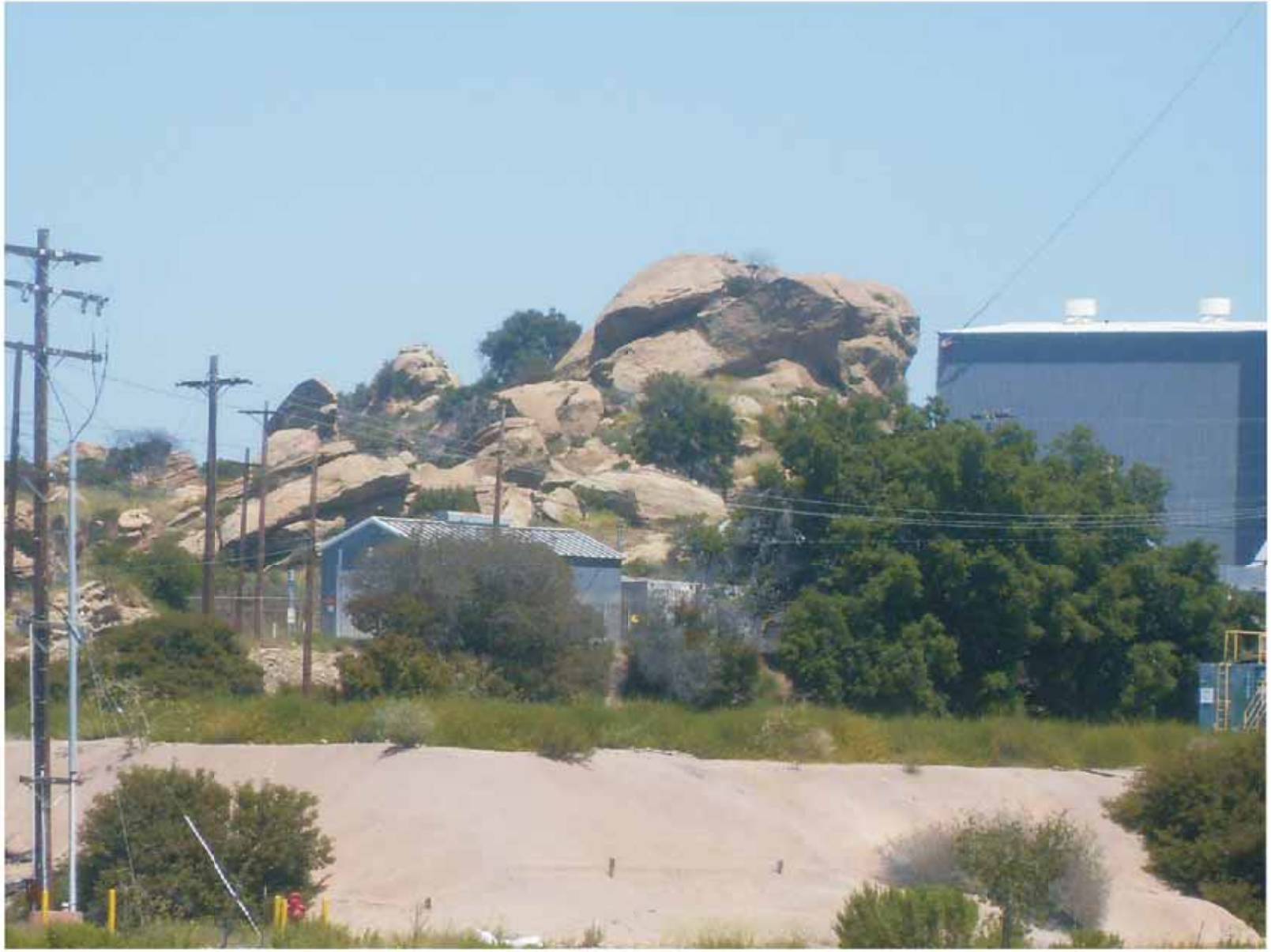
Figure 2.1.4g Building 4019 Heat, Vent., and Air Cond.



Y:/Santa_Susana/EP9038/TM/HSA_5A (2-1-4h)bldg4019ABPL.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

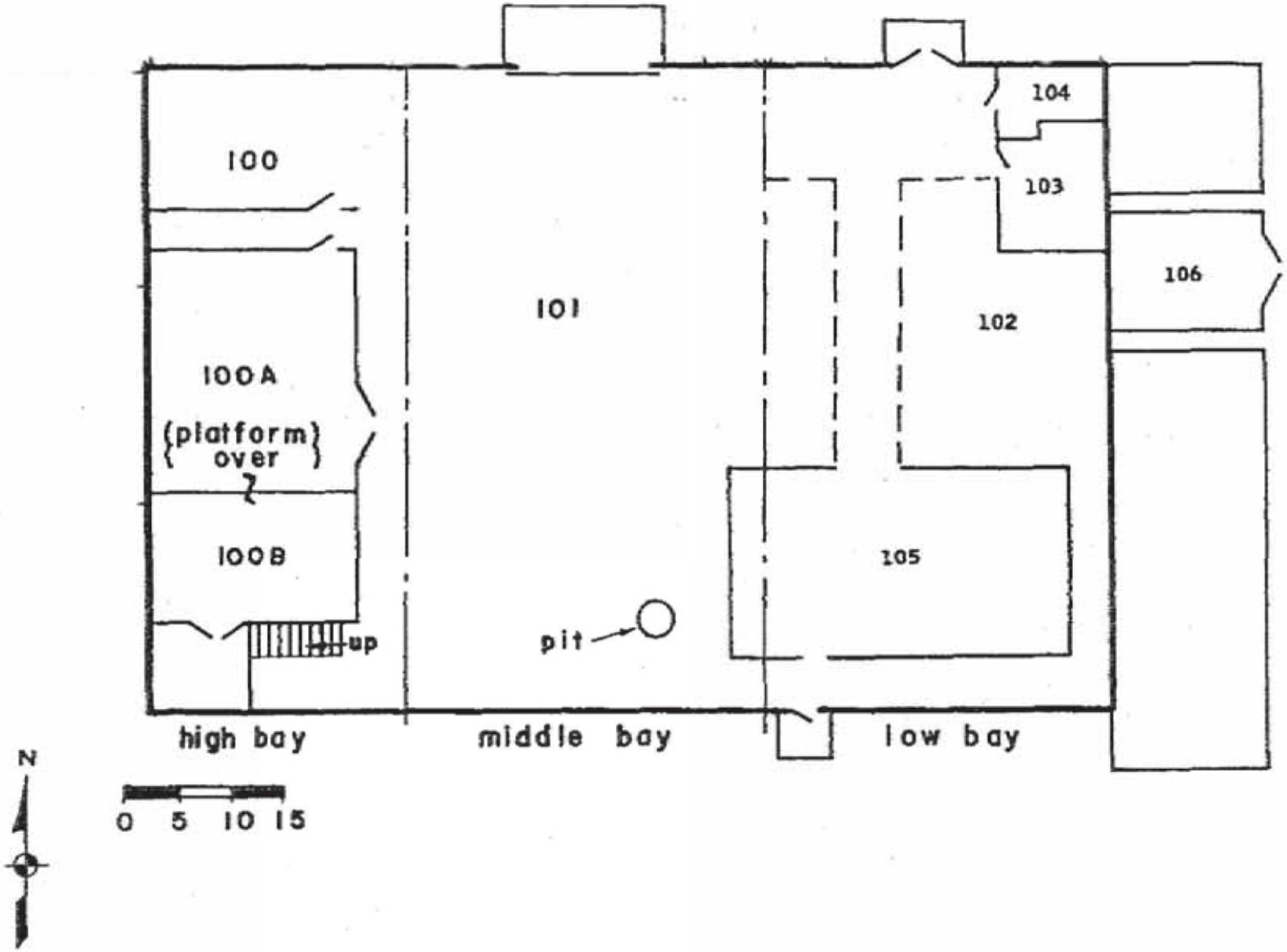
Figure 2-1-4h
Building 4019
Plumbing Plan



Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-5a)bldg4019.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

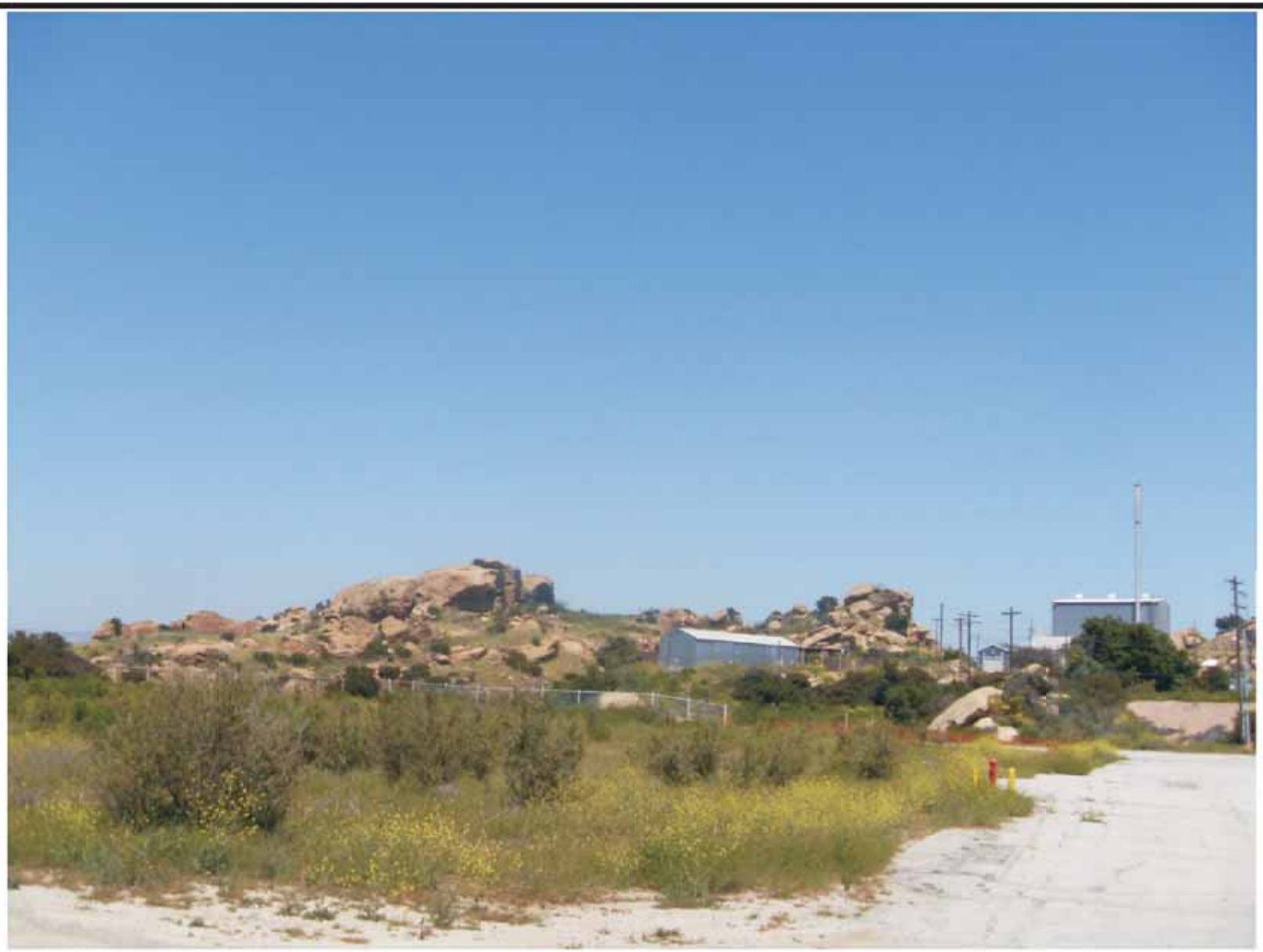
Figure 2.1.5a
Building 4025
Site Photograph



Y:\Santa_Susana\EP9038\TM\HSA_5B (2-1-5b)bldg4025FP.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.5B
Building 4025
Floor Plan



Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-6a)bldg4228.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

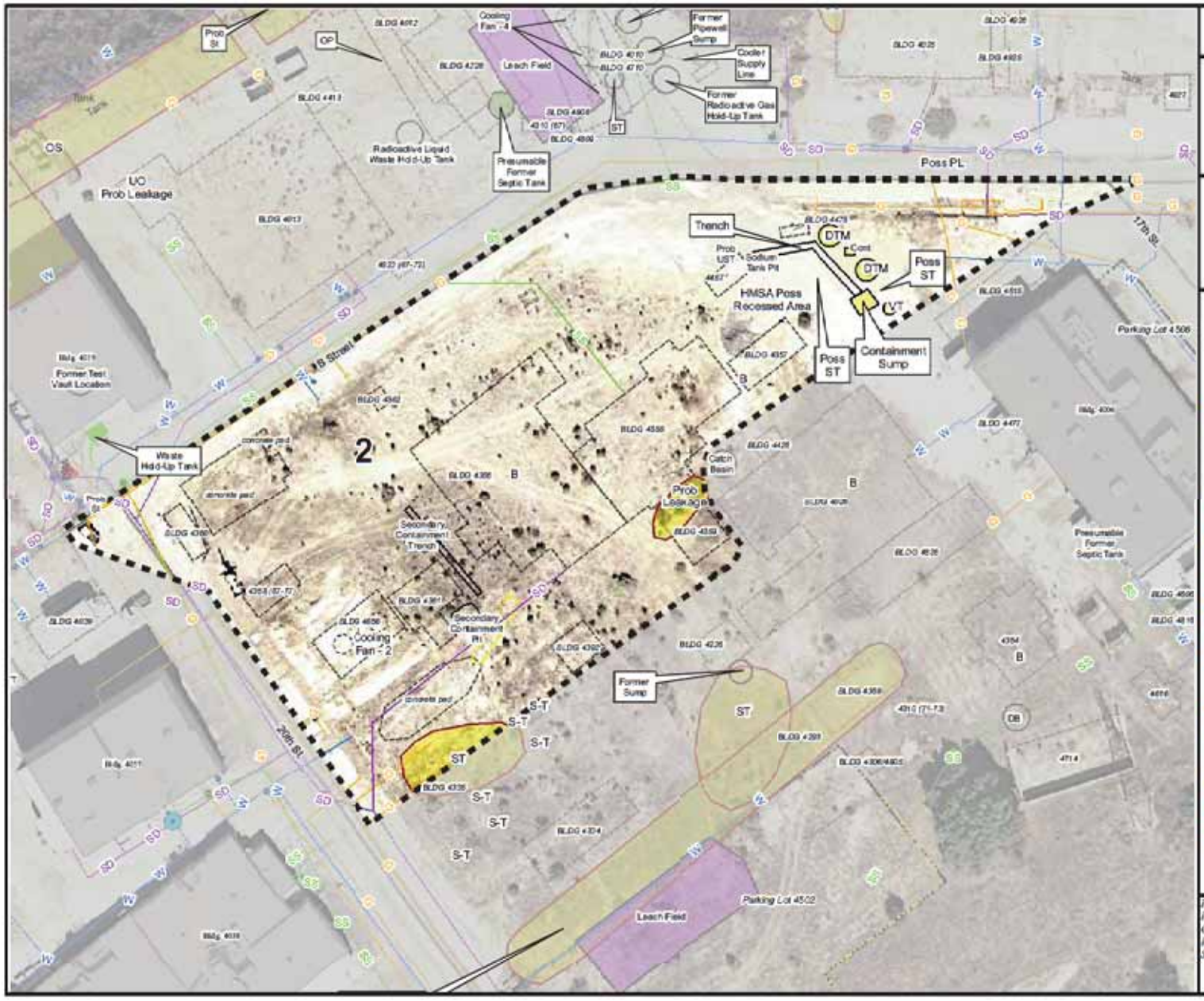
U.S. EPA Region 9

Figure 2.1.6a
Building 4228
Site Photograph

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-1-7a)bldg4310.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.1.7a
Building 4310
Site Photograph



Historical Site Assessment
Draft Technical Memorandum - HSA-5B

Figure 2.2
Area IV Subarea 5B-2
Santa Susana Field Laboratory

U.S. EPA Region 9

Legend

- Subarea 5B-2 Boundary
- Primary Roads
- Secondary Roads
- Underground Storage Tank
- Unknown Tank Type
- Sump
- Dry Well
- Tank Footprint
- Above ground Storage Tank
- Demolished Bldg.
- Existing Bldg.
- Parking Lots
- Drainage
- Drain
- Well

Aerial Photo Features

- Aerial Photography Features
- Leach Field
- Other

Surface Water

- Intermittent Stream
- Permanent Stream
- Surface Water
- Lined Channel
- Trench Drain
- Drainage
- Leach Field
- Septic System

Utilities

- Channel
- Drain
- Drain
- Drainage Divide
- Gutter
- Tank
- Tank
- Vault
- Well
- Gas
- Storm Drain
- Sanitary Sewer
- Water

B	Building
CONT	Container
CR	Crates
DB	Debris
DG	Disturbed Ground
DTM	Dark Tone Material
EX	Excavation
FA	Fill Area
GS	Ground Scar
HT	Horizontal Tank
IM	Impoundment
MTMM	Medium Toned Mounded Material
OS	Open Storage
PA	Processing Area
PL	Parking Lot
POSS	Possible
PROB	Probable
S-T	Storage Tank
SS	Smoke Stack
ST	Storage
UO	Unidentified Object
VT	Vertical Tank
WDA	Waste Disposal Area

0 25 50 100
Scale In Feet

N

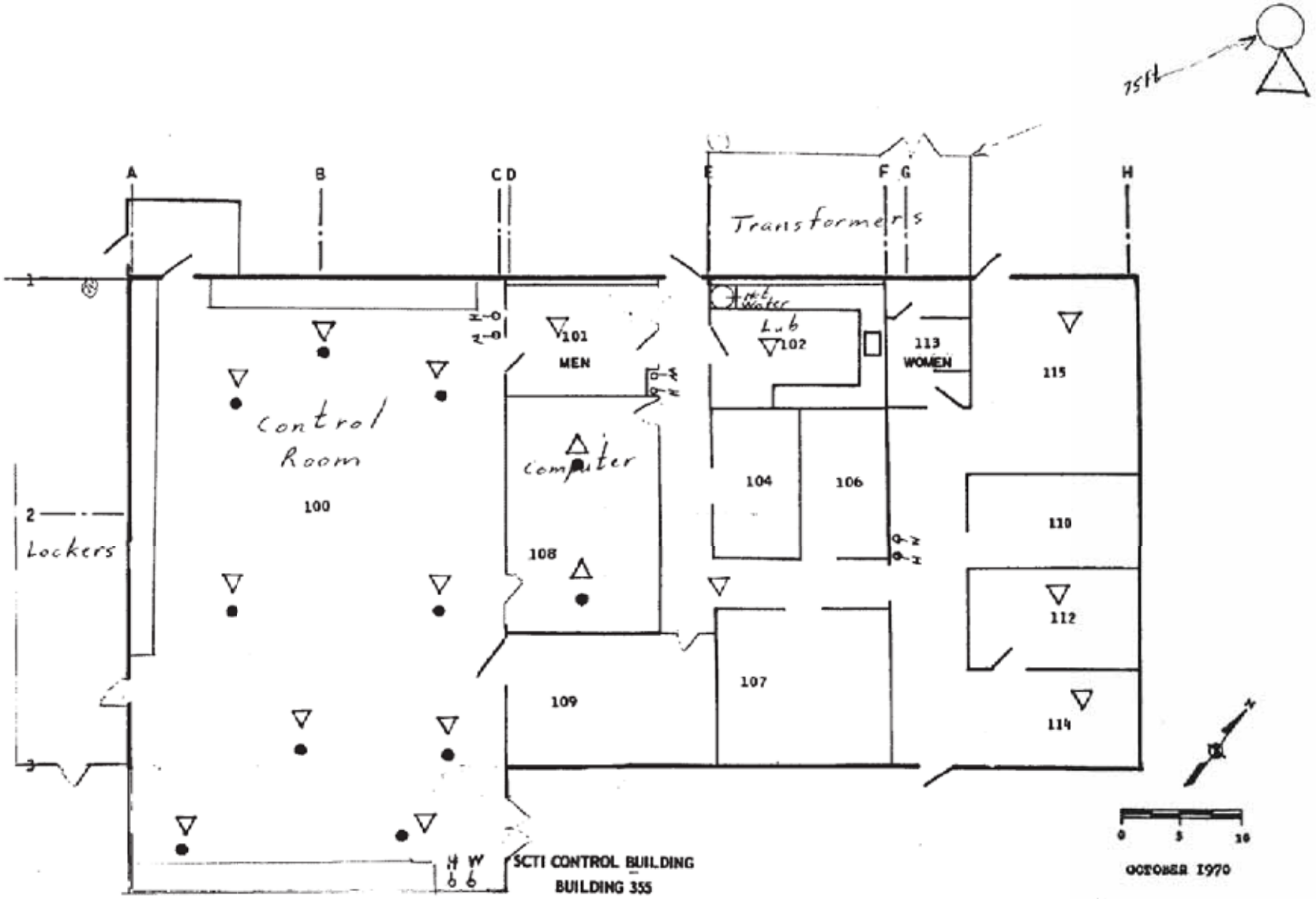
Filepath: T:\Santa_Susana\EP9038\TM\HSA_5B(2-2)5B-2.mxd
Project: EP9038
Created: TJansen
Revised: 10/25/2010 TJ
Source: Boeing Company, 2008
CIRGIS, 2007

HGL

Y:\Santa_Susana\EP9038\TM\HSA_5B (2-2-1a)bldg4355.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.1a
Building 4355
Site Photograph



Y:\Santa_Susana\EP9038\TM\HSA_5B (2-2-1b)building4355FP.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

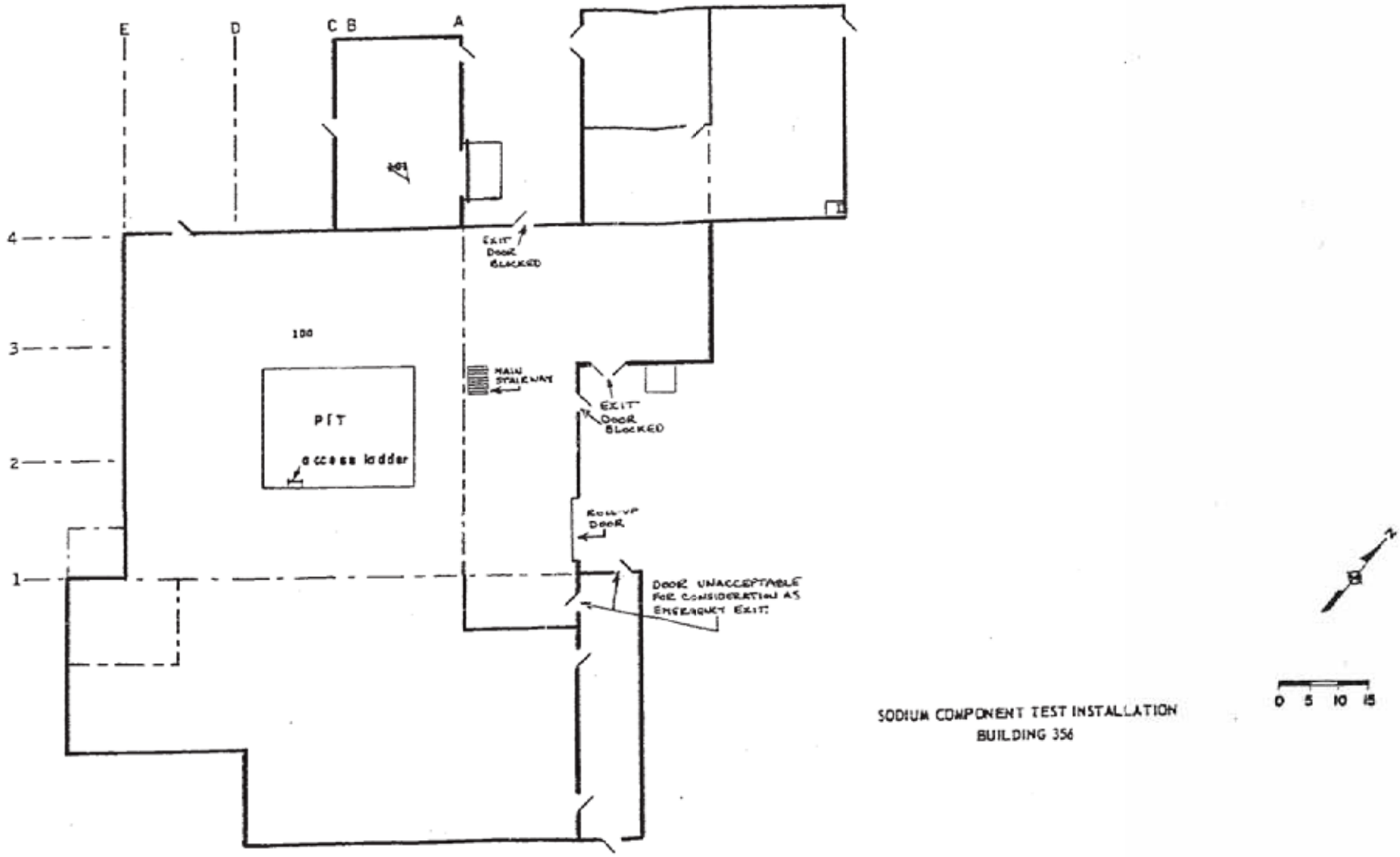
U.S. EPA Region 9

Figure2.2.1b
Building 4355
Floor Plan

Y:\Santa_Susana\EP9038\TM\HSA_5B (2-2-2a)bldg4356.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

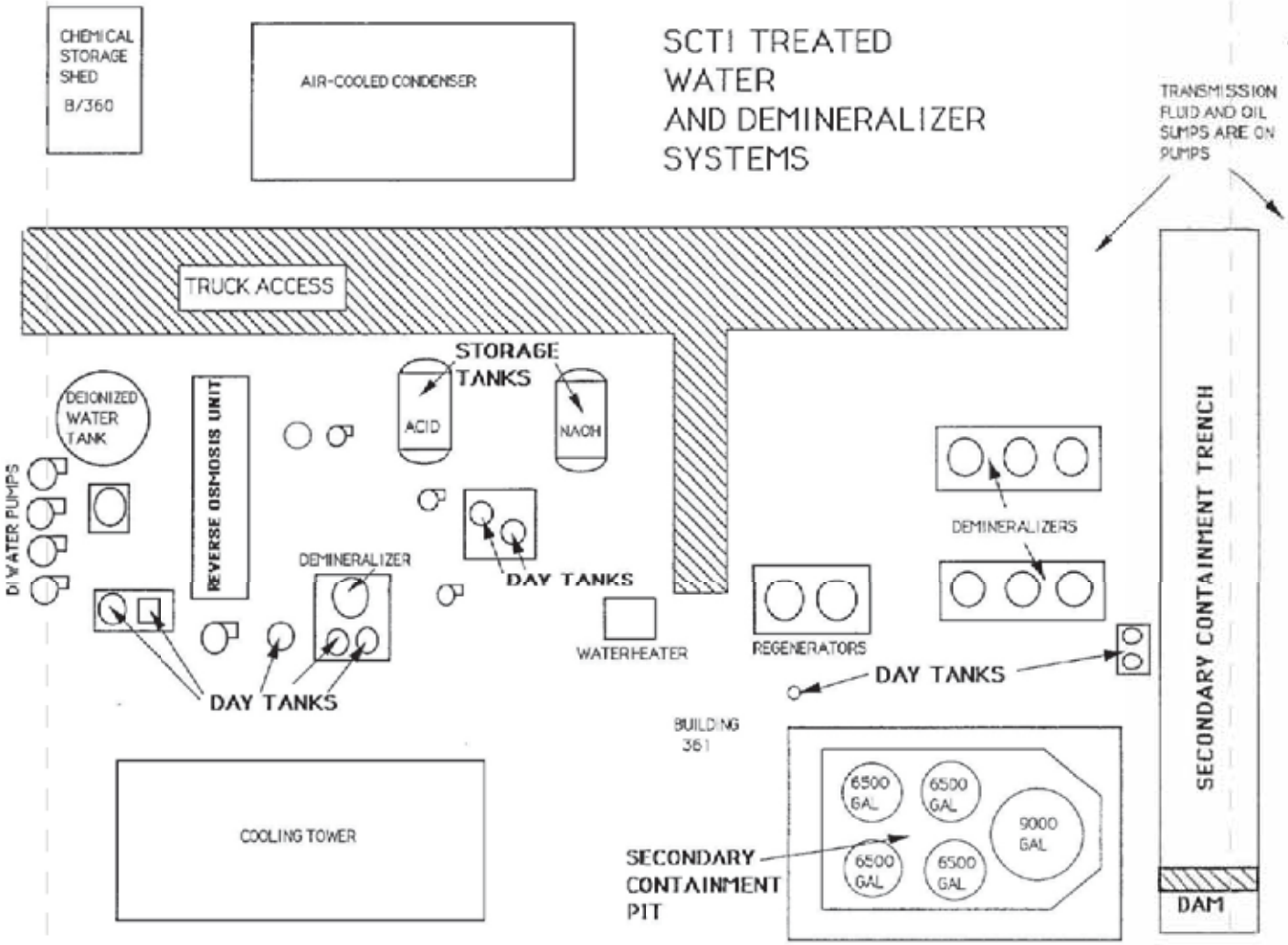
Figure 2.2.2a
Building 4356
Site Photograph



Y:/Santa_Susana/EP9038/TM/HSA_5B (2-2-2b)building4356FP.cdr
Project:EP9038
Revised: 09/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.2b
Building 4356
Floor Plan



Y:\Santa_Susana\EP9038\TM\HSA_5B (2-2-2c)\Bldg4356AP.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

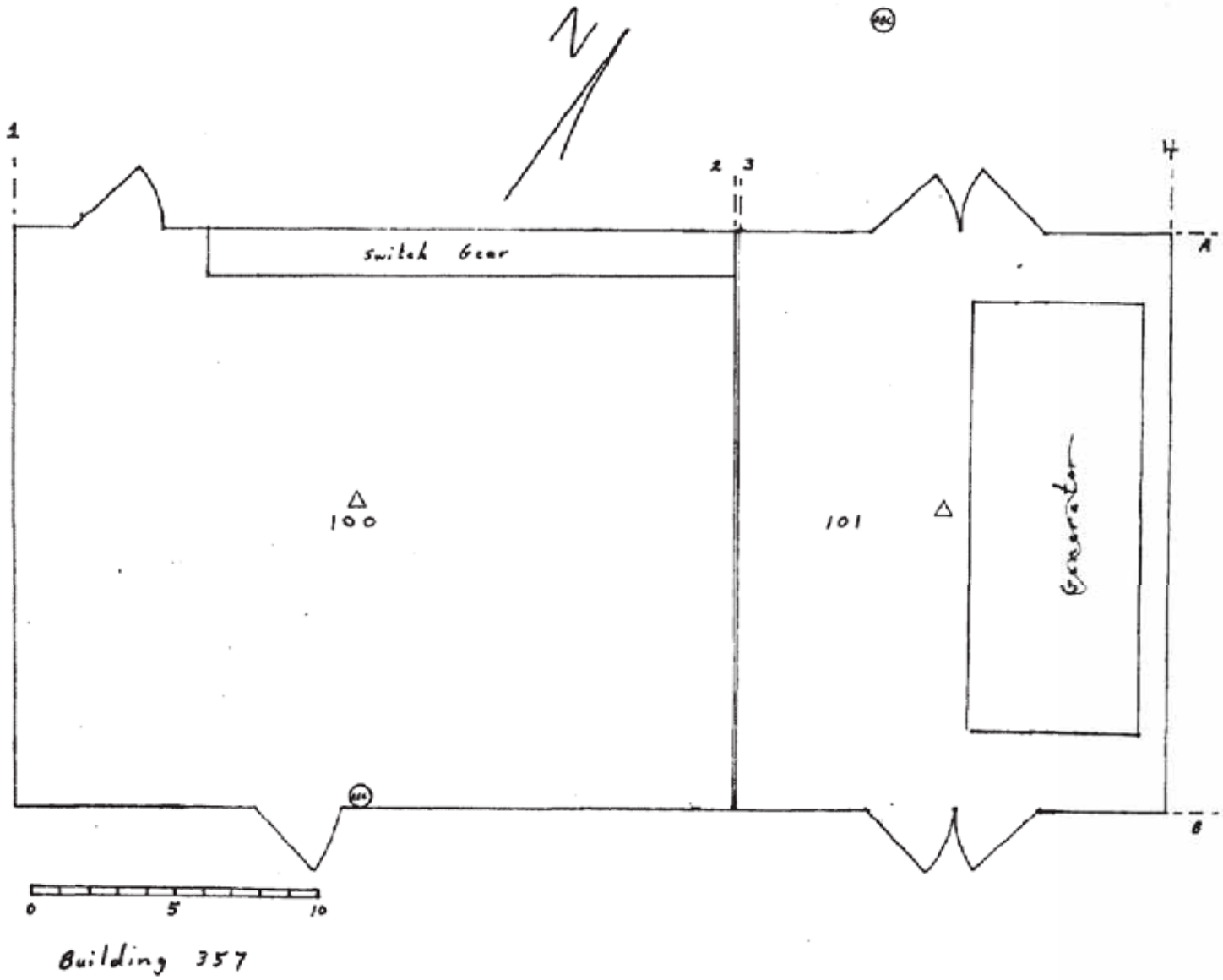
U.S. EPA Region 9

Figure 2.2.2c
Building 4356
West Yard
Area Plan

Y:\Santa_Susana\EP9038\TM\HSA_5B (2-2-3a)bldg4357.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.3a
Building 4357
Site Photograph



Y:/Santa_Susana/EP9038/TM/HSA_5B
(2-2-3b)building4357FP.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

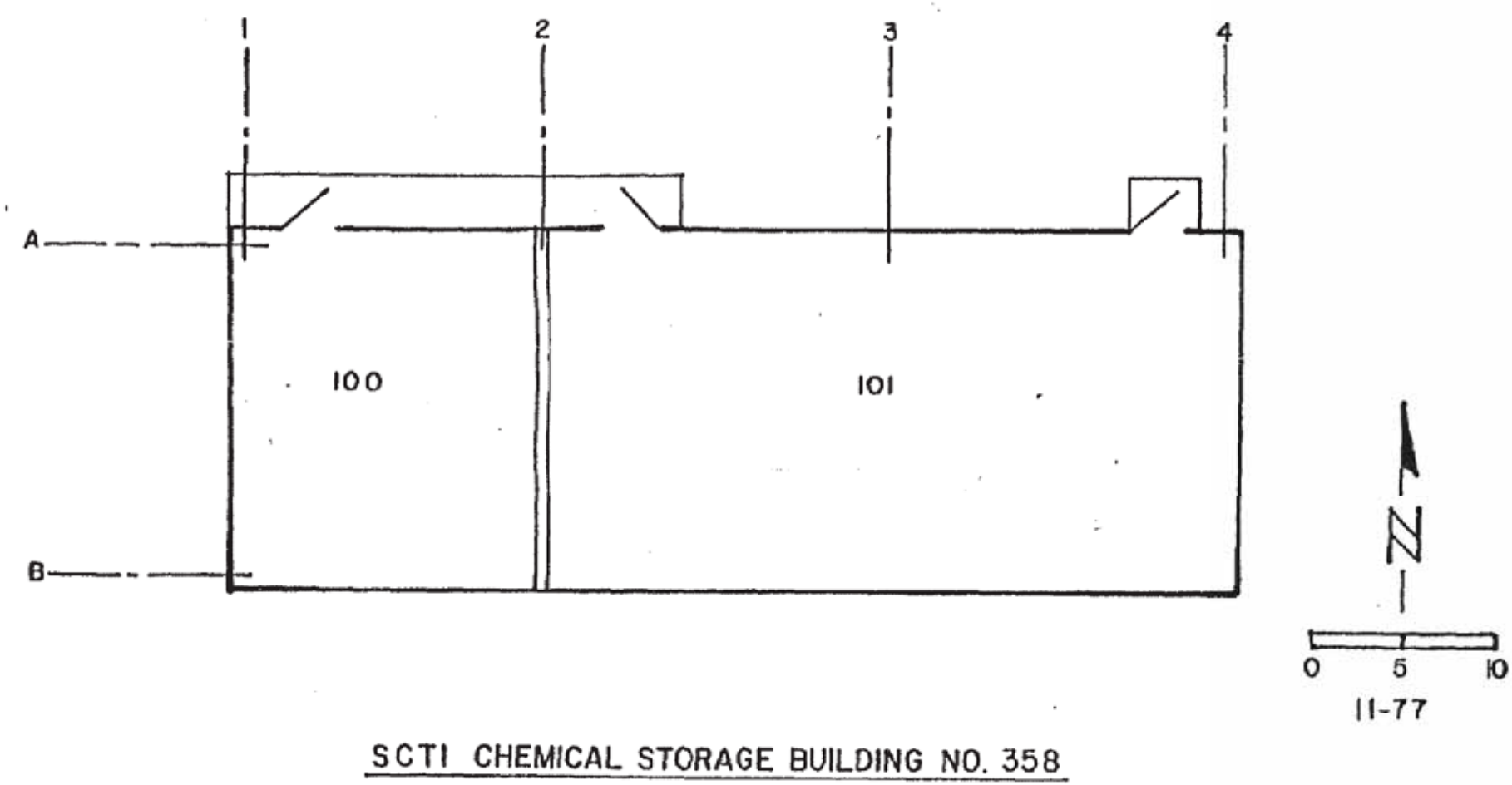
U.S. EPA Region 9

Figure 2.2.3b
Building 4357
Floor Plan

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-2-4a)bldg4358.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.4a
Building 4358
Site Photograph



Y:/Santa_Susana/EP9038/TM/HSA_5B
(2-2-4b)building4358FP.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.4b
Building 4358
Floor Plan

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-2-5a)bldg4359.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.5a
Building 4359
Site Photograph

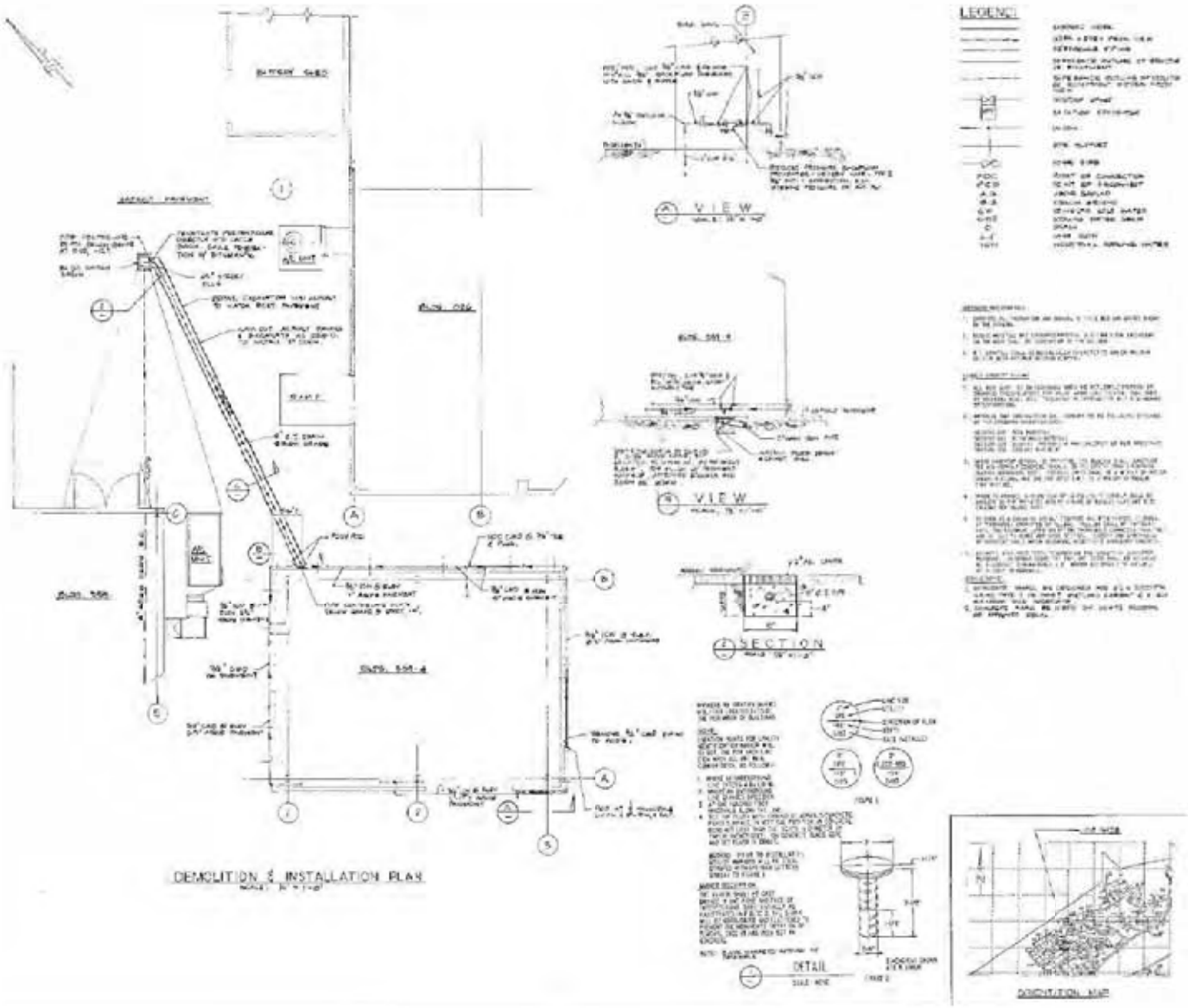


Figure Not to Scale

Y:\Santa_Susana\EP9038\TM\HSA_5B (2-2-5b)building4359ABWS.cdr
Project:EP9038
Revised: 08/07/2010 TJ
Source: Boeing Company, 2008

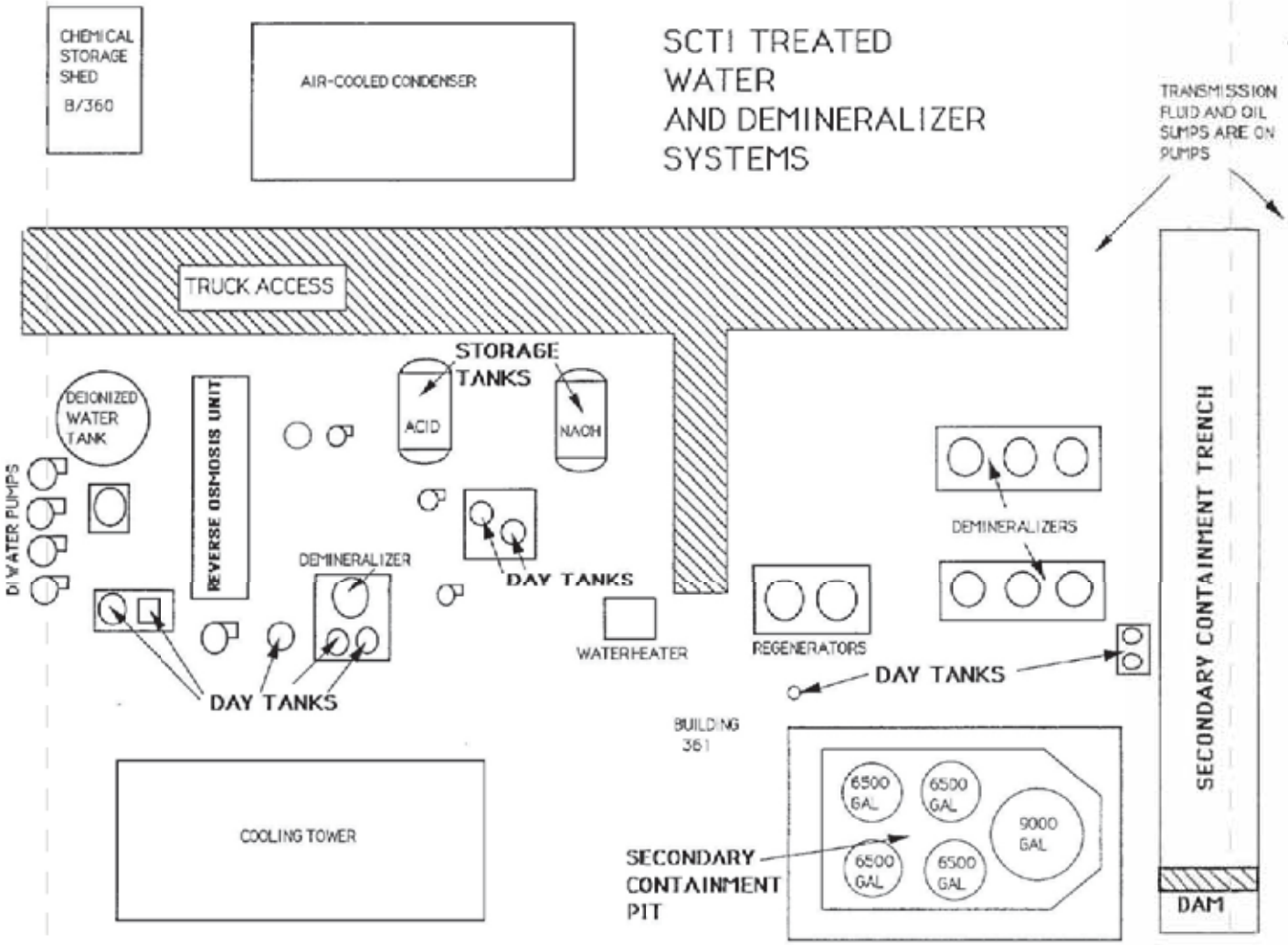
U.S. EPA Region 9

Figure 2.2.5b
Building 4359
Water/Sewer
Distribution

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-2-6a)bldg4360.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.6a
Building 4360
Site Photograph



Y:\Santa_Susana\EP9038\TM\HSA_5B (2-2-6b)bldg4360AP.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

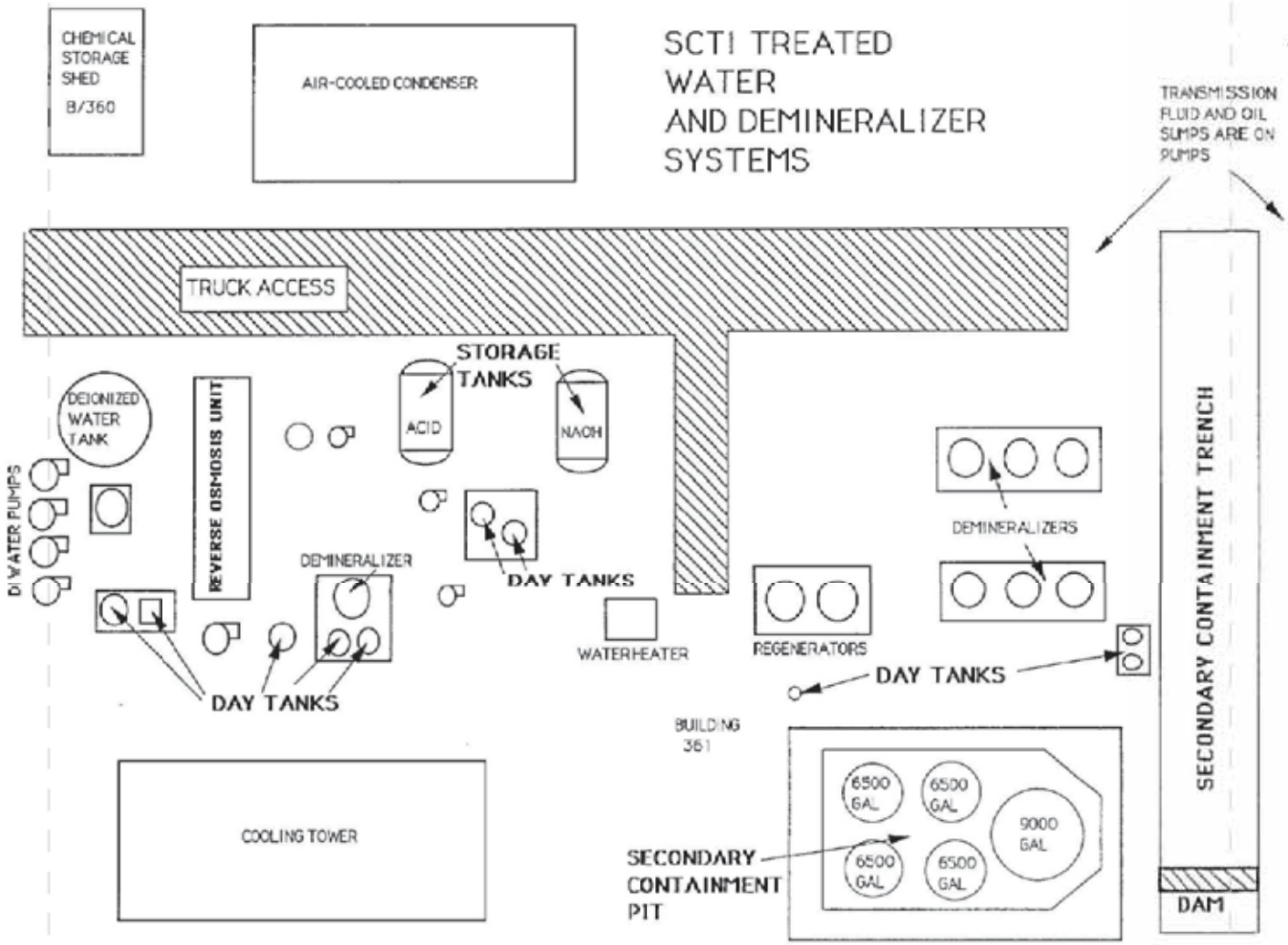
U.S. EPA Region 9

Figure2.2.6b
Building 4360
Area Plan

Y:\Santa_Susana\EP9038\TM\HSA_5B (2-2-7a)bldg4361.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.7a
Building 4361
Site Photograph



Y:/Santa_Susana/EP9038/TM/HSA_5B (2-2-7b)bldg4361AP.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.7b
Building 4361
Area Plan

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-2-8a)bldg4362.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.8a
Building 4362
Site Photograph

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-2-9a)bldg4392.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

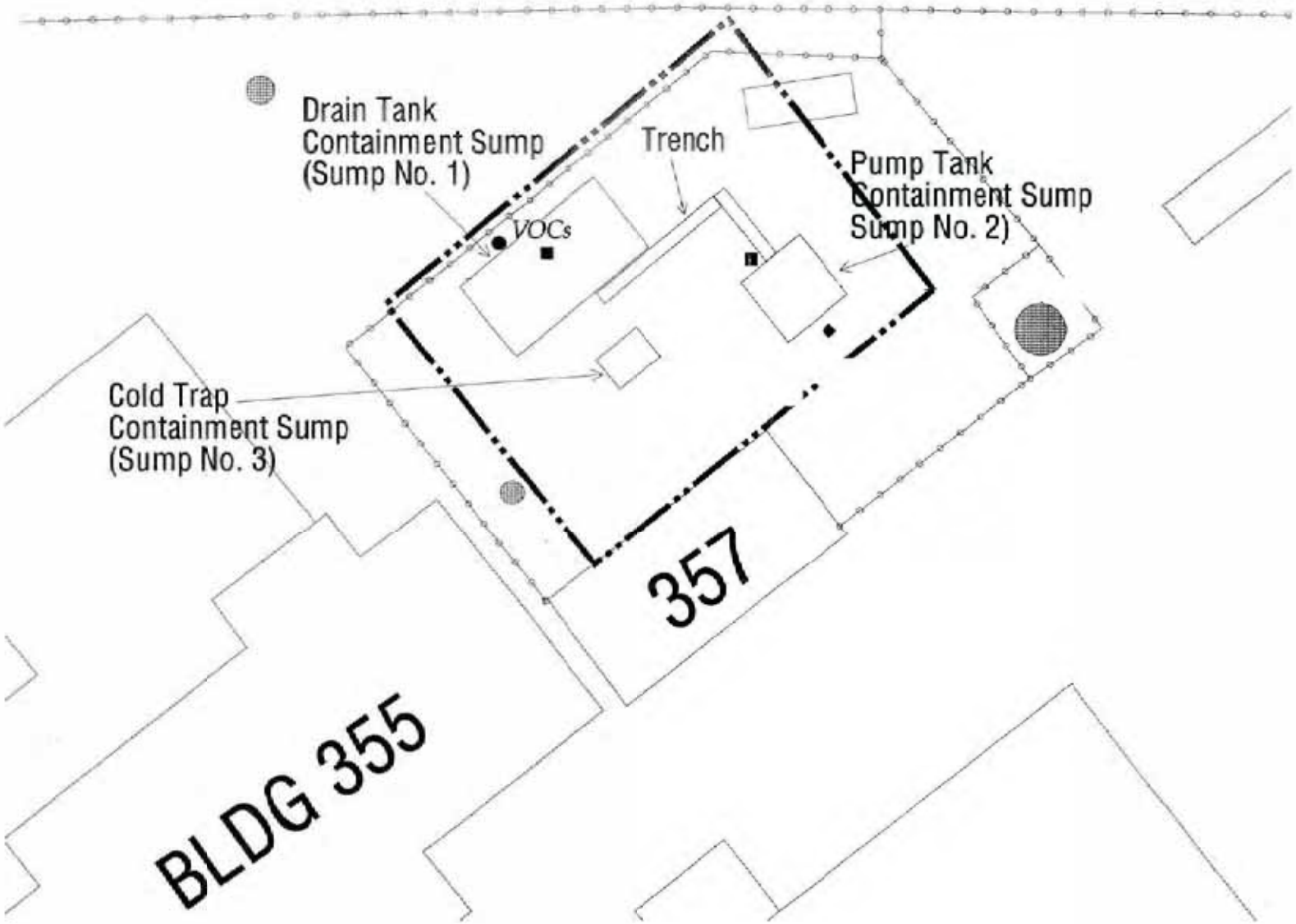
U.S. EPA Region 9

Figure 2.2.9a
Building 4392
Site Photograph

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-2-10a)bldg4457.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.10a
Building 4457
Site Photograph



Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-2-10b)Bldg4457FHS.cdr
Project:EP9038
Revised: 10/25/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.10b
Building 4457
Former HMSA Site

Y:\Santa_Susana\EP9038\TM\HSA_5B
(2-2-11a)bldg4478.cdr
Project:EP9038
Revised: 08/08/2010 TJ
Source: Boeing Company, 2008

U.S. EPA Region 9

Figure 2.2.11a
Building 4478
Site Photograph