

ATTACHMENT

N FIGURES

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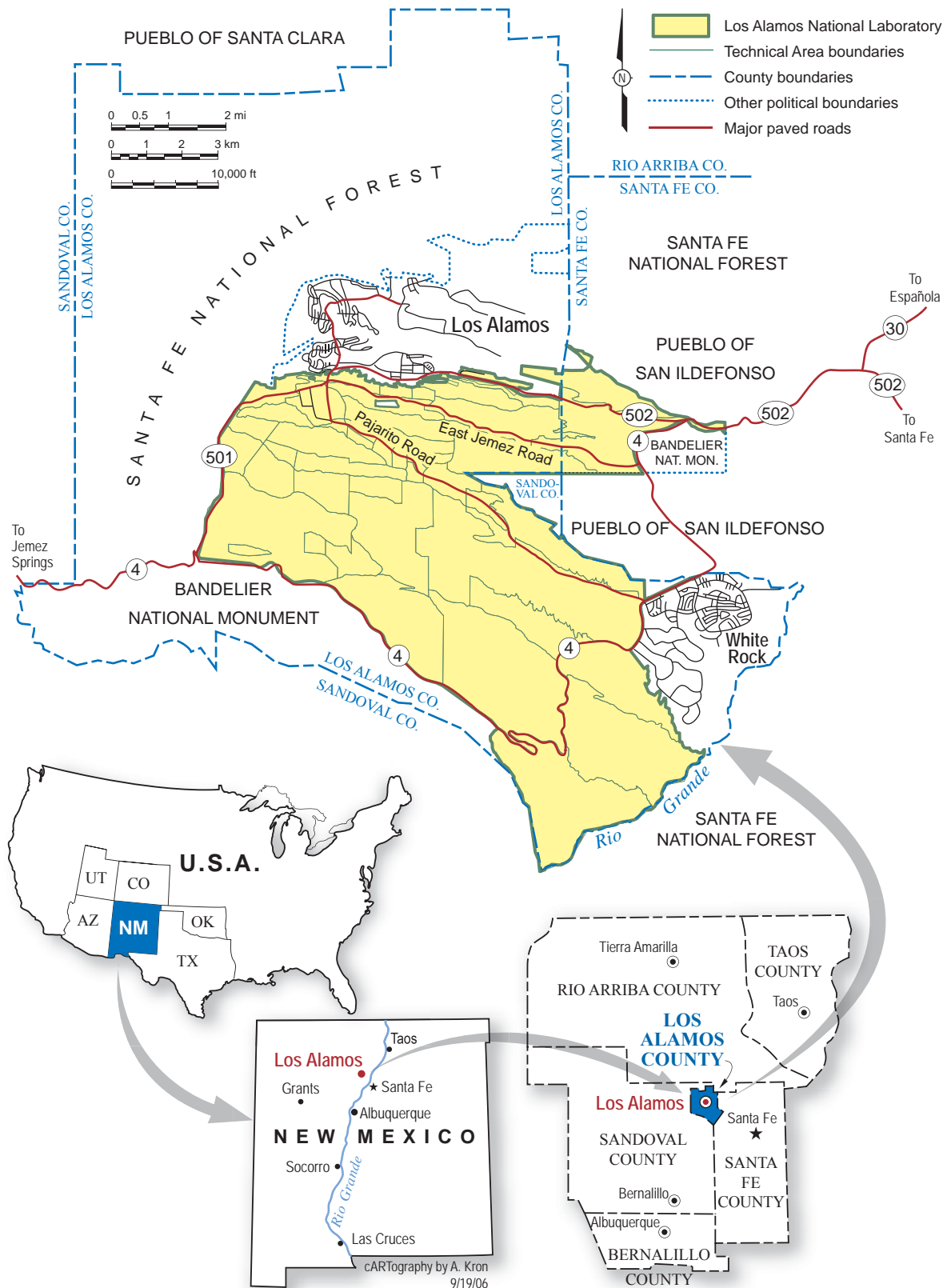
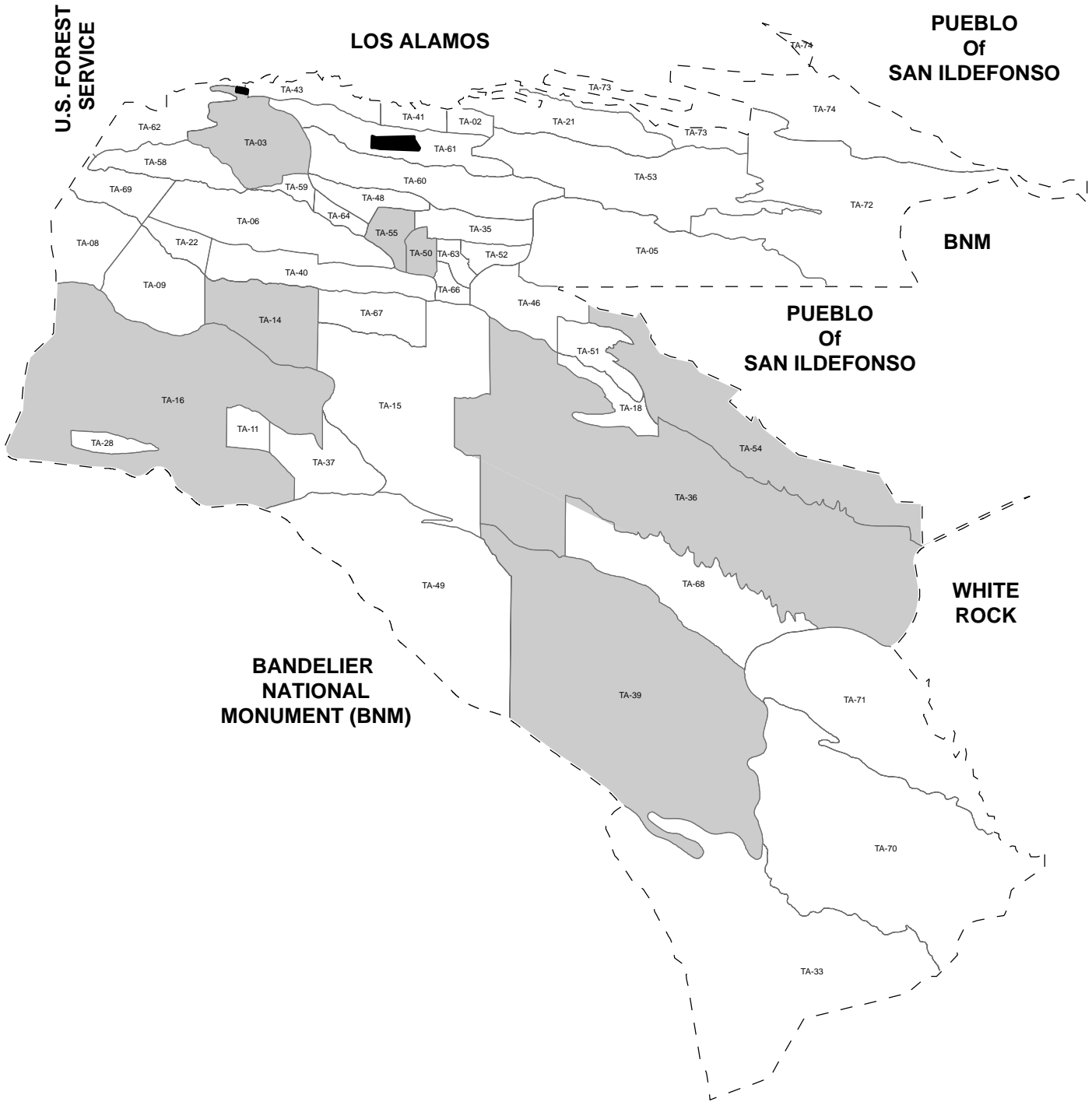


Figure 1
Regional Location Map of Los Alamos National Laboratory



Legend

 Not LANL Property

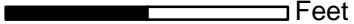
0 5,000 10,000
 Feet

Figure 2
 Facility Boundary and Location Map of Los Alamos National Laboratory (LANL)
 Technical Areas (TAs)

Created by ERSS GIS TEAM. Map Number 06-0108 September 12, 2005
 State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
 This map was created for work processes associated with the Environmental & Remediation Support Services. All other uses for this map should be confirmed with LANL EP-ERSS staff.
 Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; Infrastructure Planning Office. 10 February 2006
 Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 01 February 2003 as captured 07 September 2004.

Two areas outlined in red and shown in overviews are not under LANL control

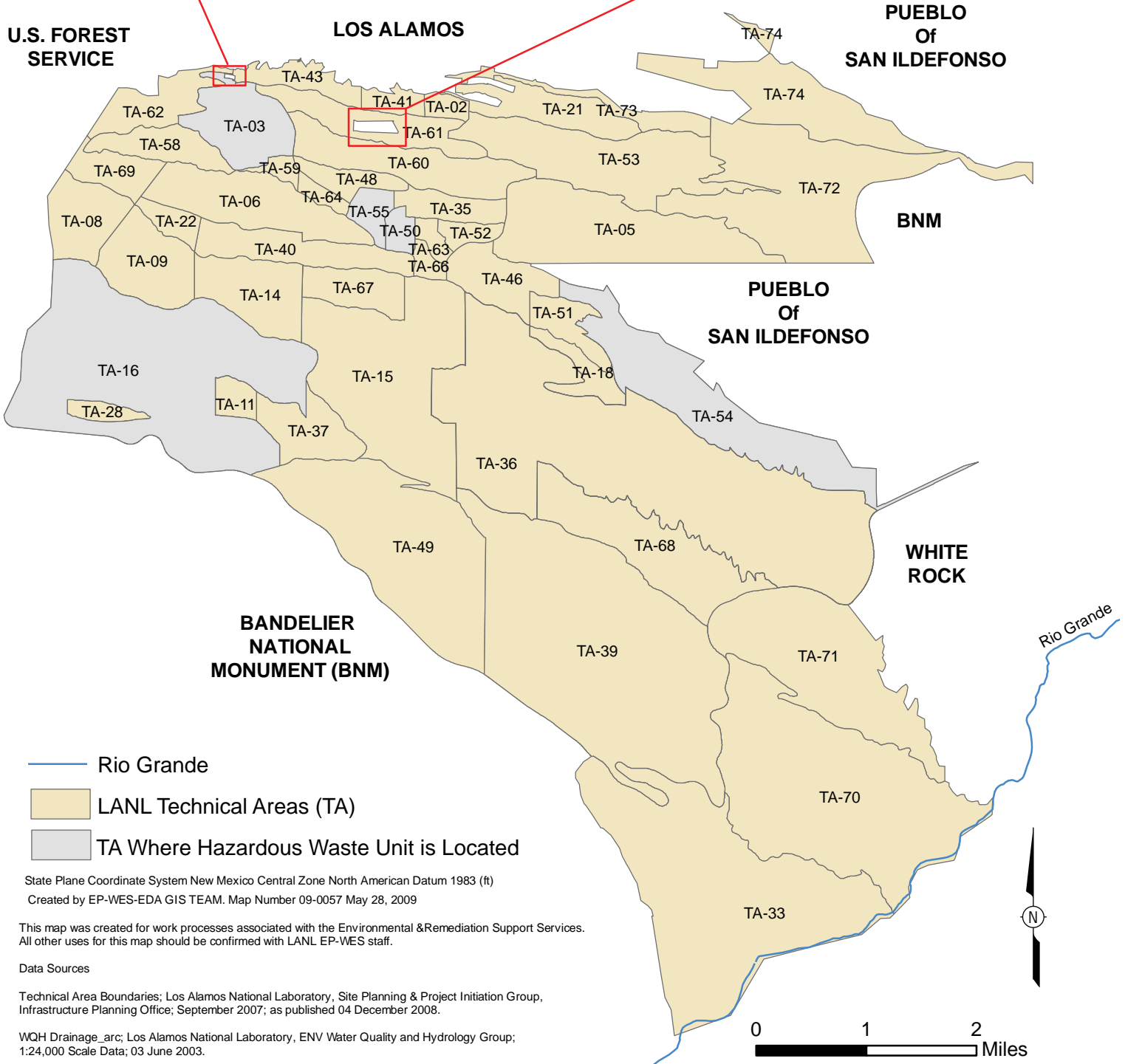
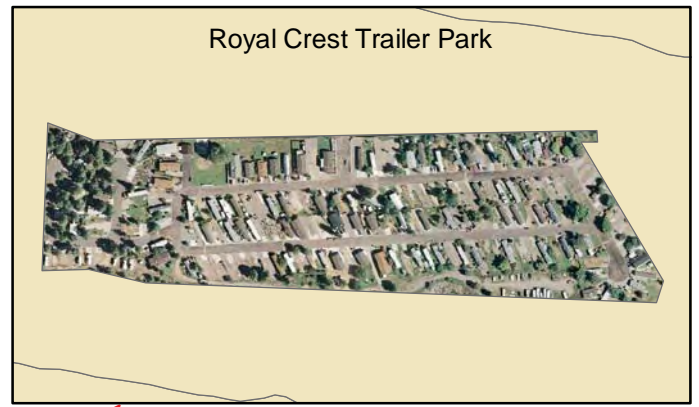


Figure 3: Los Alamos National Laboratory Facility Boundary with Detail of Non-LANL Areas

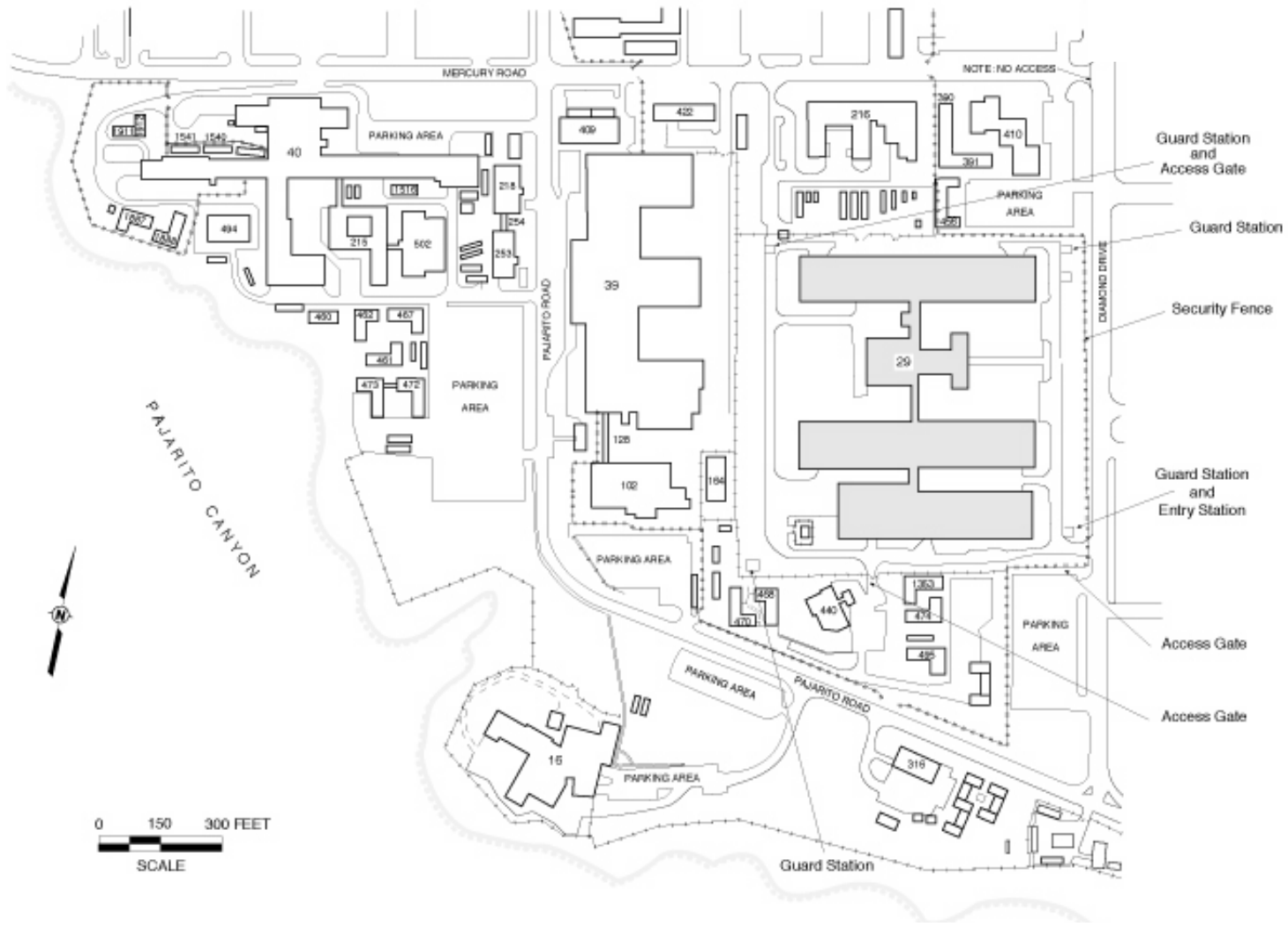


Figure 4
 Technical Area (TA) 3 Location Map Showing Security Fences, Entry Gates, and Entry Stations

FIGURE 5 – RESERVED

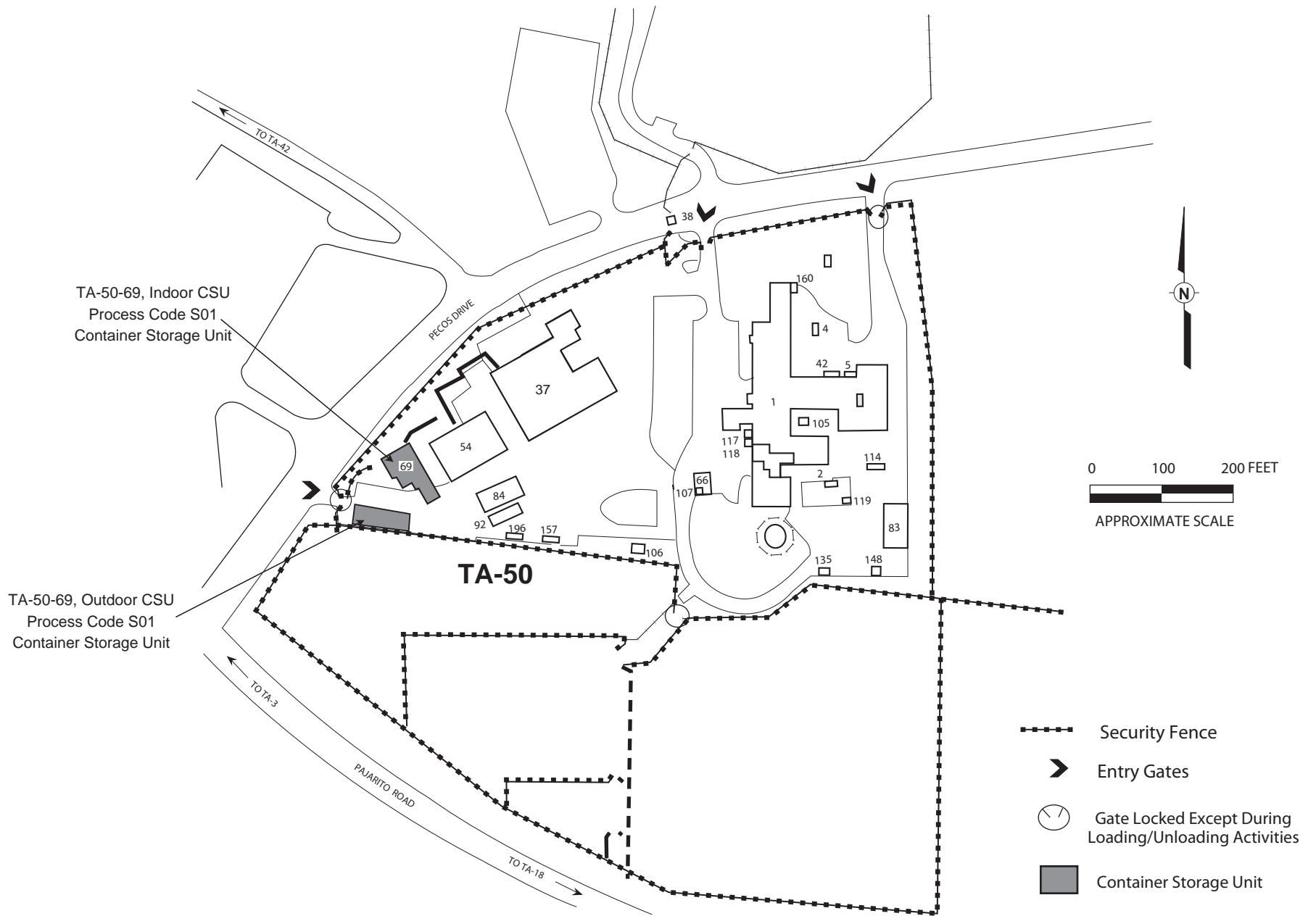


Figure 6:
 Technical Area (TA) 50 Location Map Showing Security Fences, Entry Gates, and Entry Stations

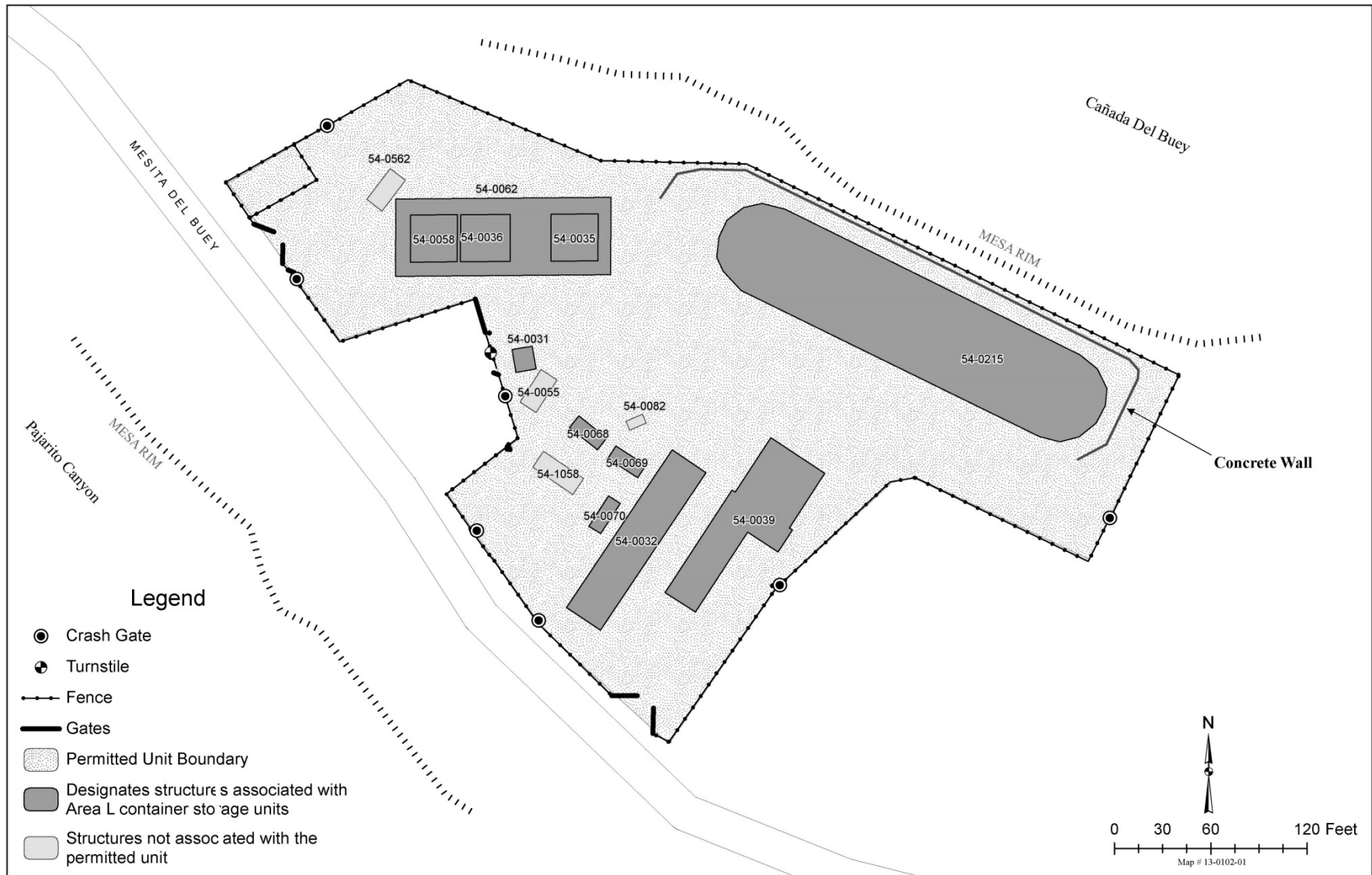
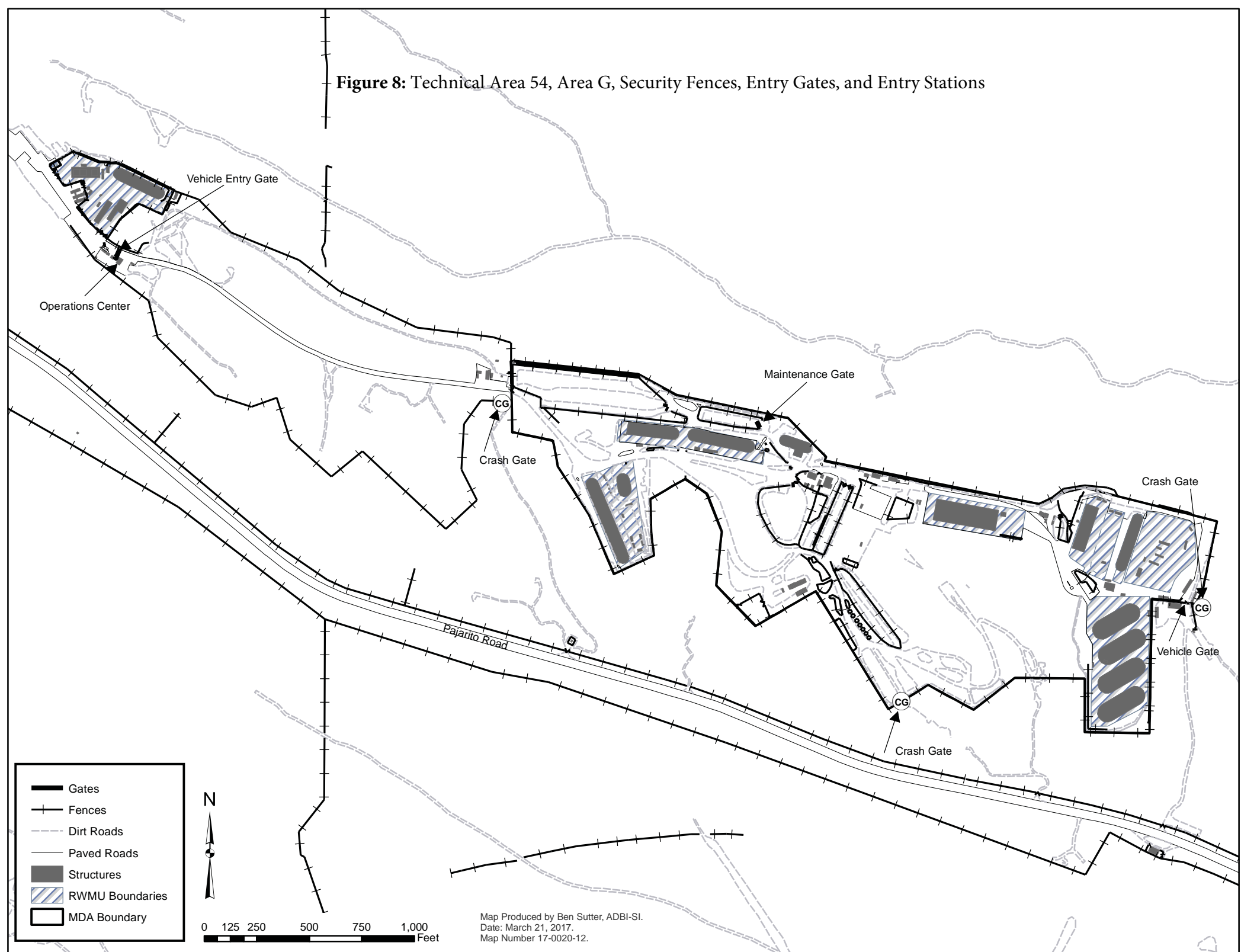


Figure 7: Technical Area 54, Area L, Security Fences, Entry Gates, and Entry Stations

Figure 8: Technical Area 54, Area G, Security Fences, Entry Gates, and Entry Stations



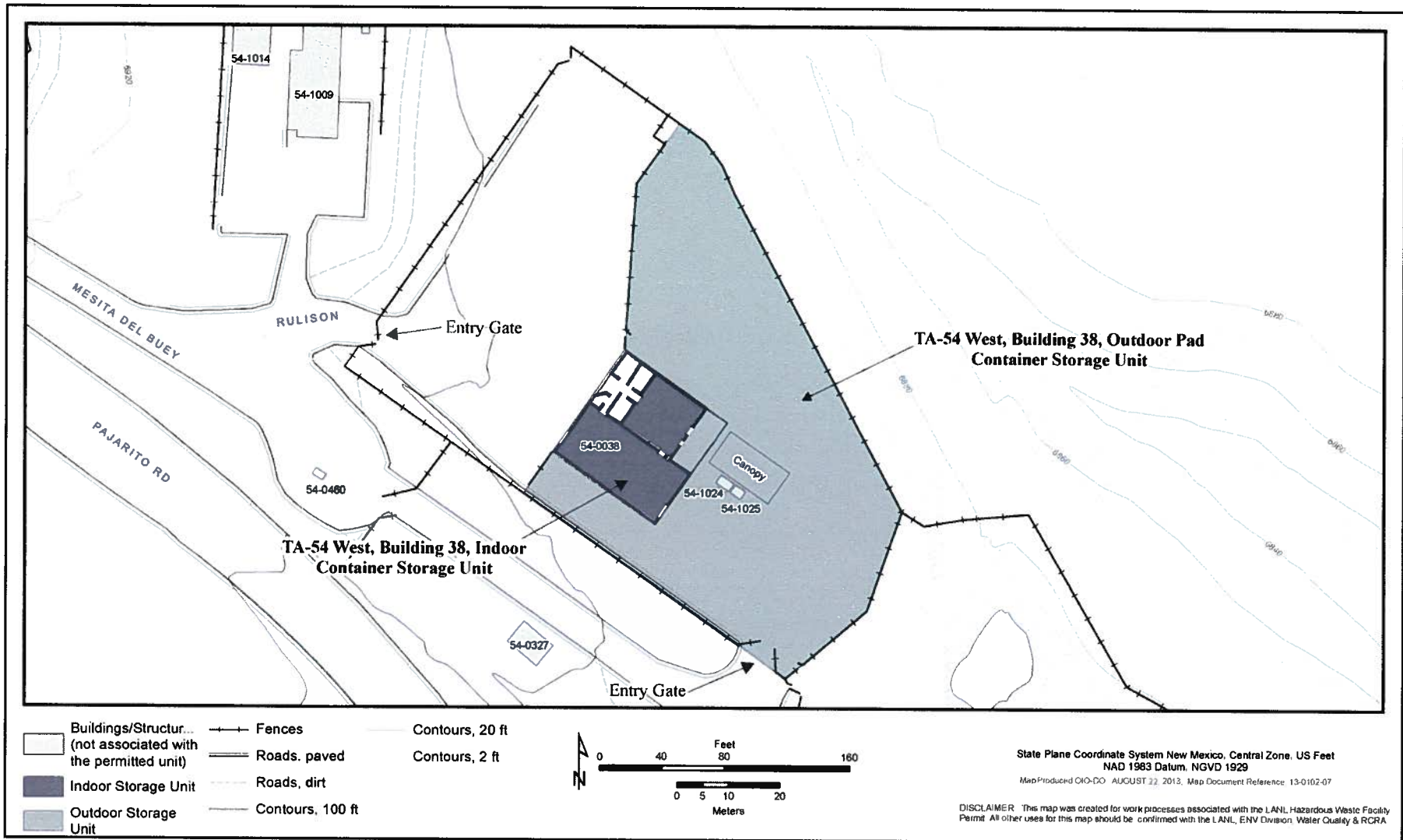


Figure 9: Technical Area (TA) 54 West Location Map Showing Security Fences, Entry Gates, and Entry Stations

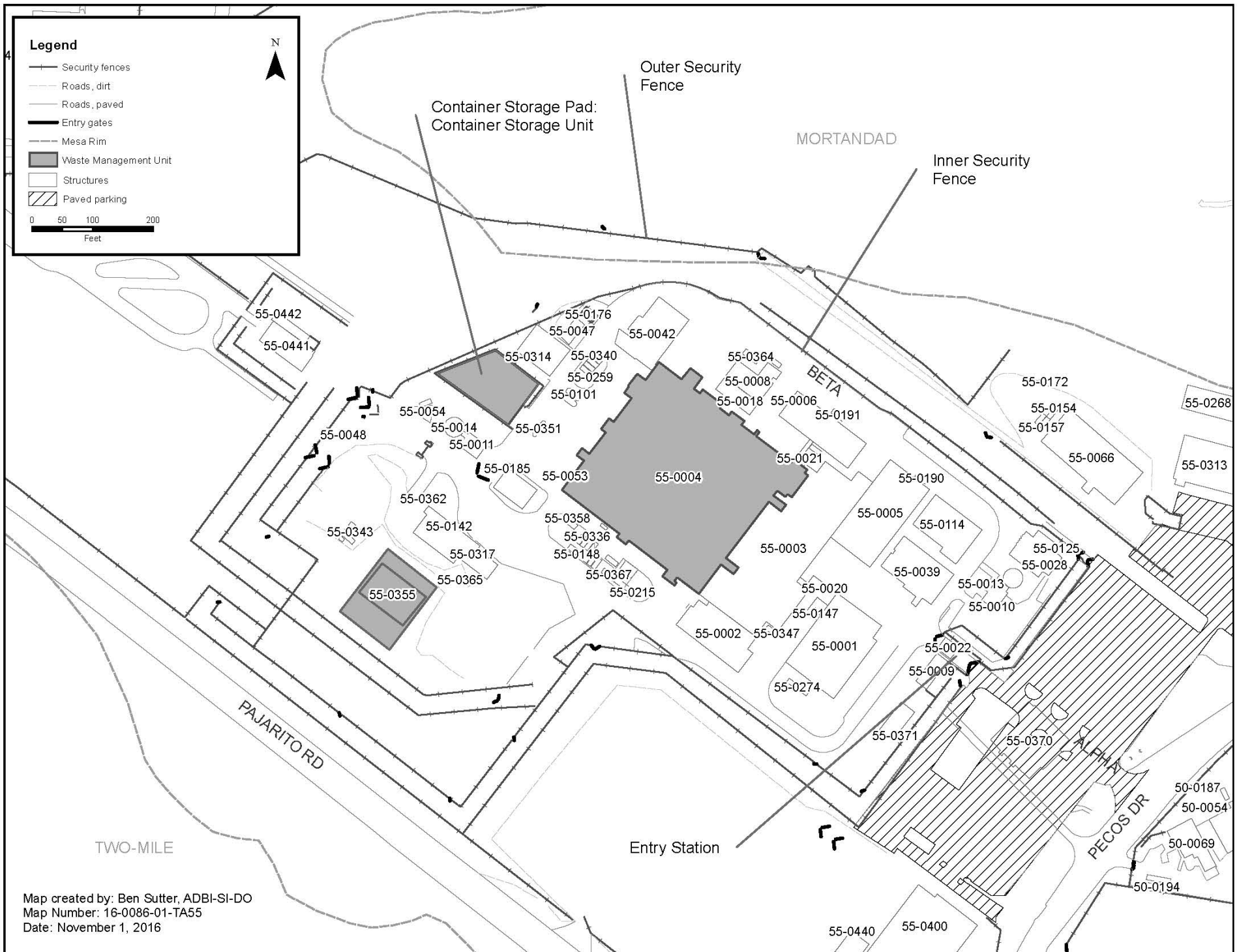


Figure 10
 Technical Area (TA) 55 Location Map Showing Security Fences, Entry Gates, and Entry Station

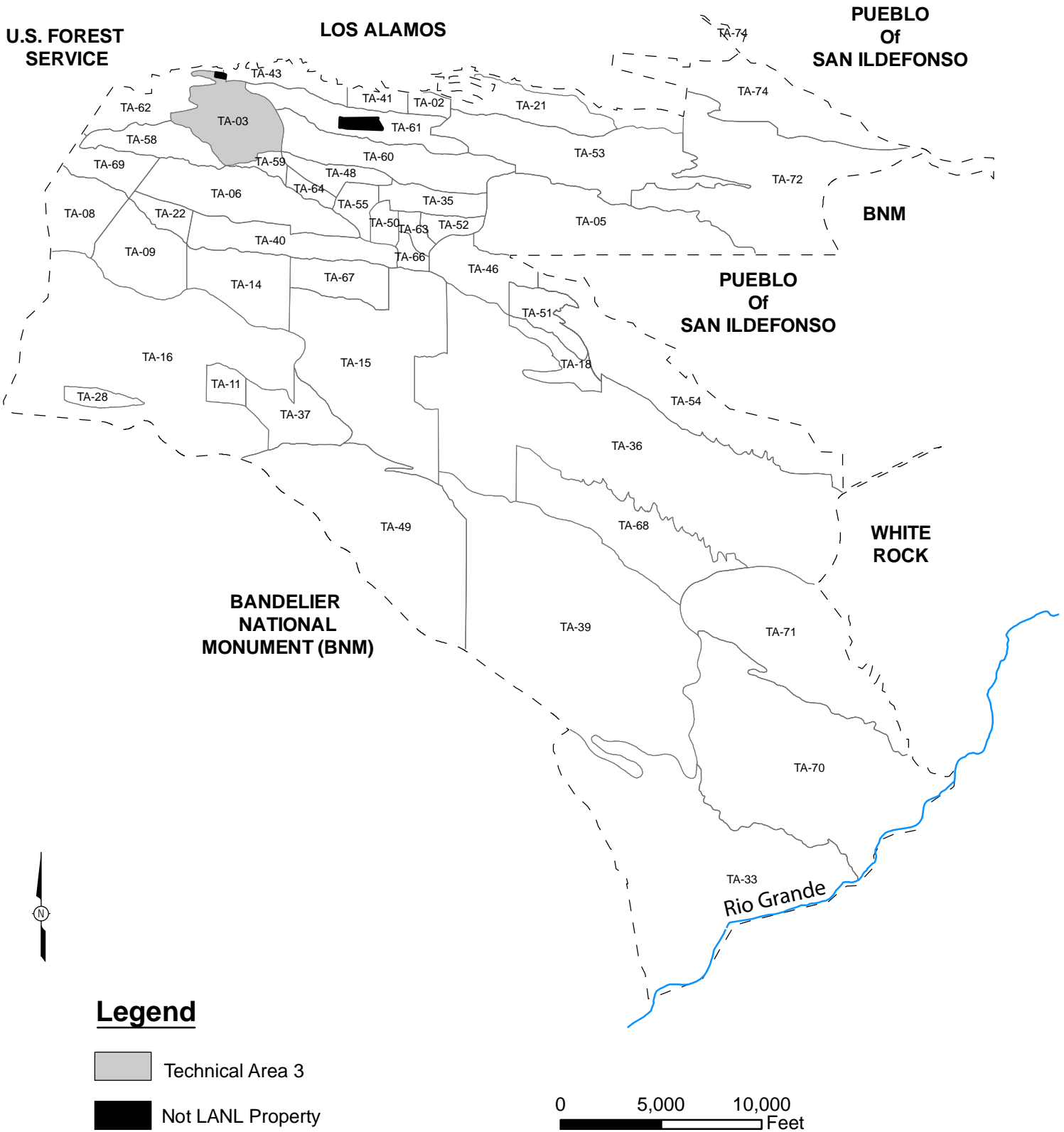


Figure 11:
 Technical Area (TA) 3 Location Map

Created by EP-WES-EDA GIS TEAM. Map Number 06-0108 November 13, 2008, modified by ENV-RCRA August 2009
 State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
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 Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; infrastructure Planning Office. 04 June 2008
 Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 04 June 2008

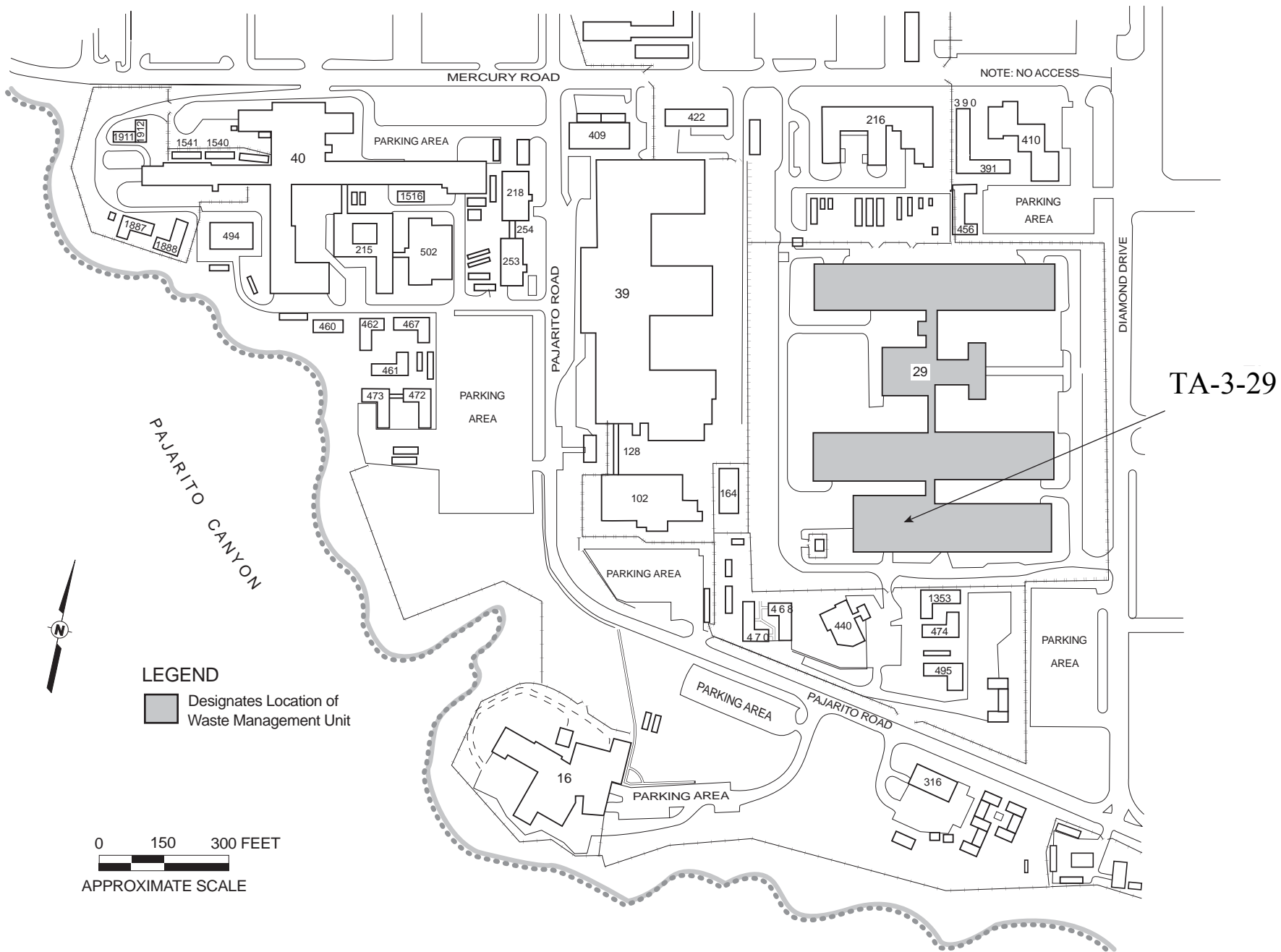
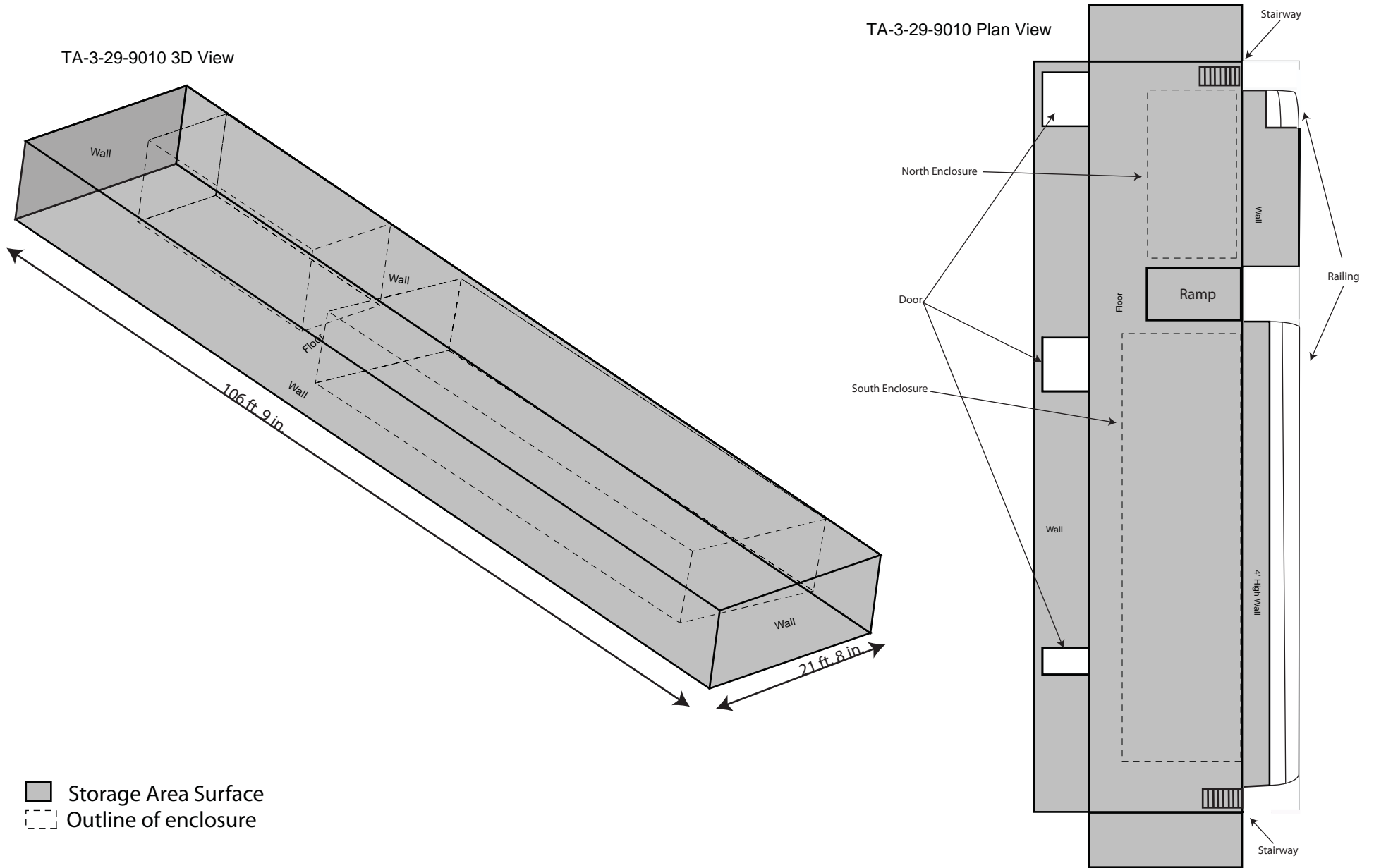


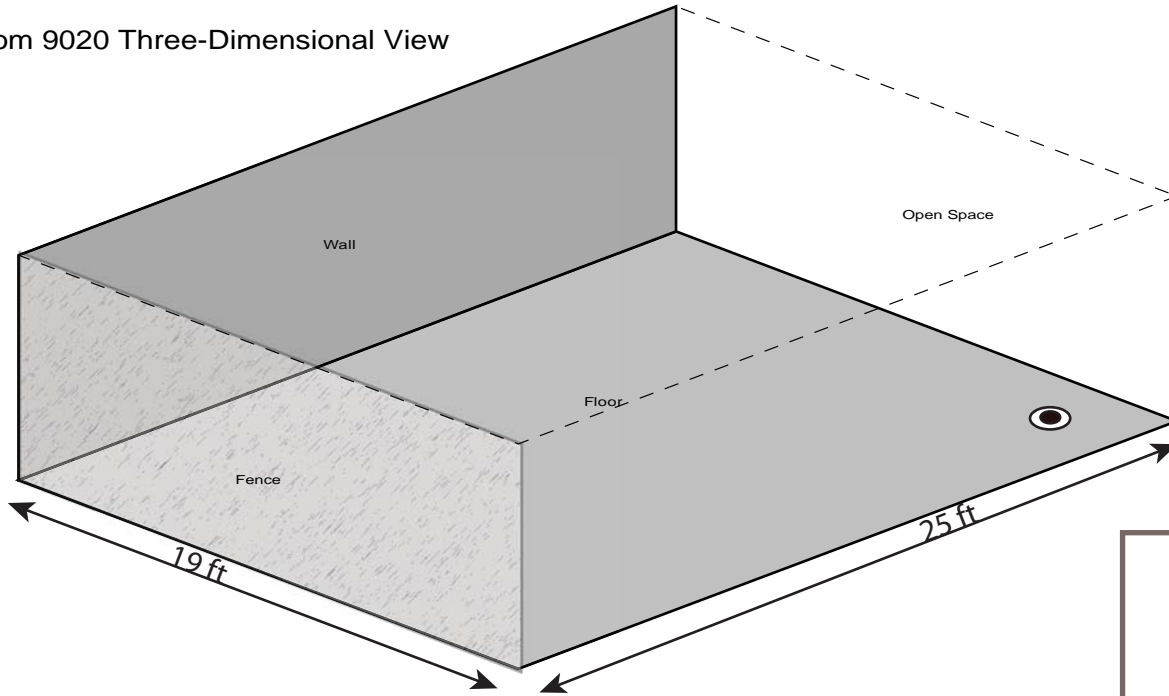
Figure 12:
 Technical Area (TA) 3, Building 29, Location Map



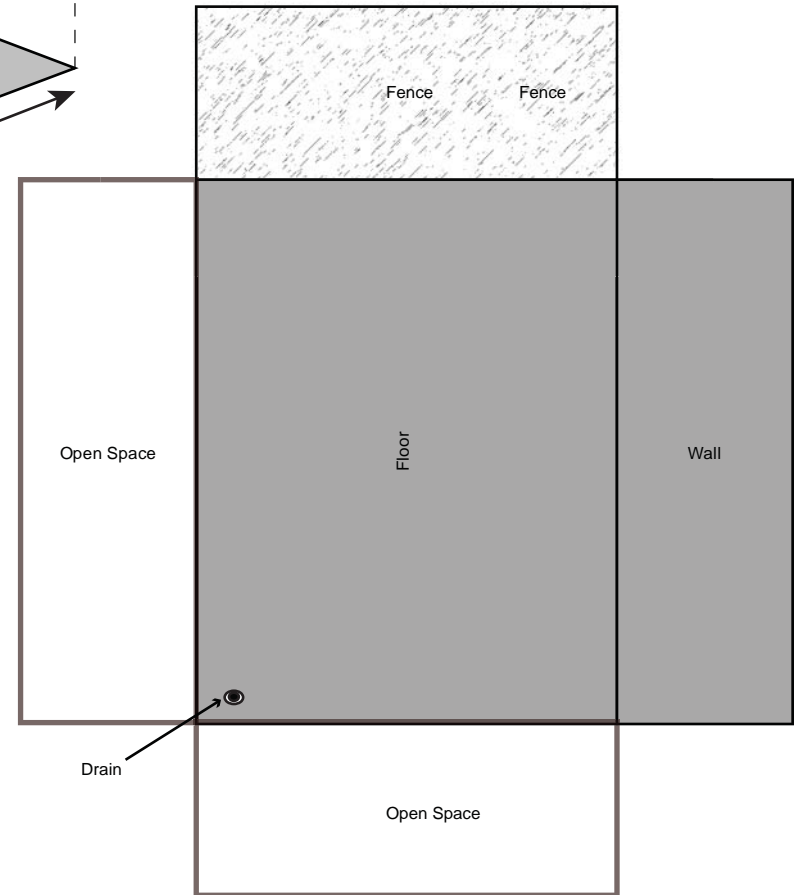
Not to scale




Figure 13:
 Technical Area (TA) 3, Building 29, Room 9010

Room 9020 Three-Dimensional View



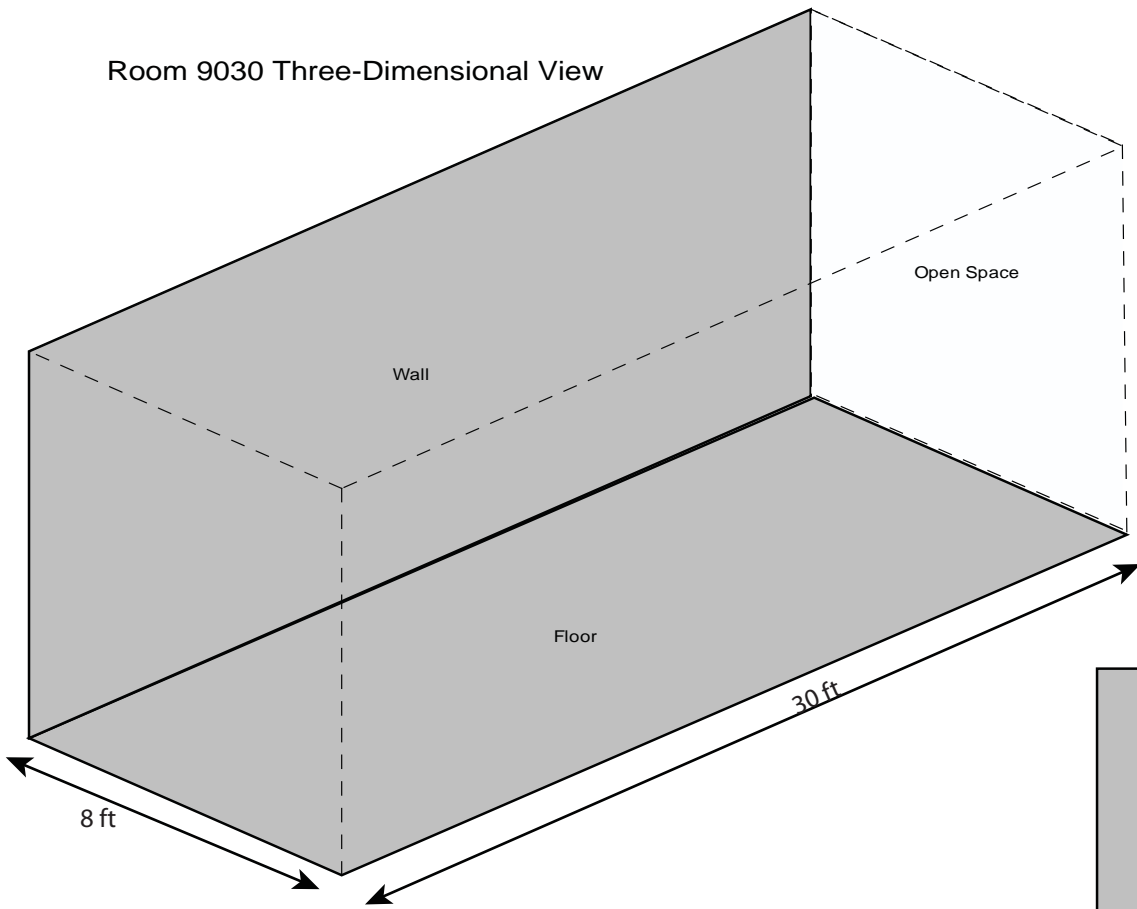
Room 9020 Plan View



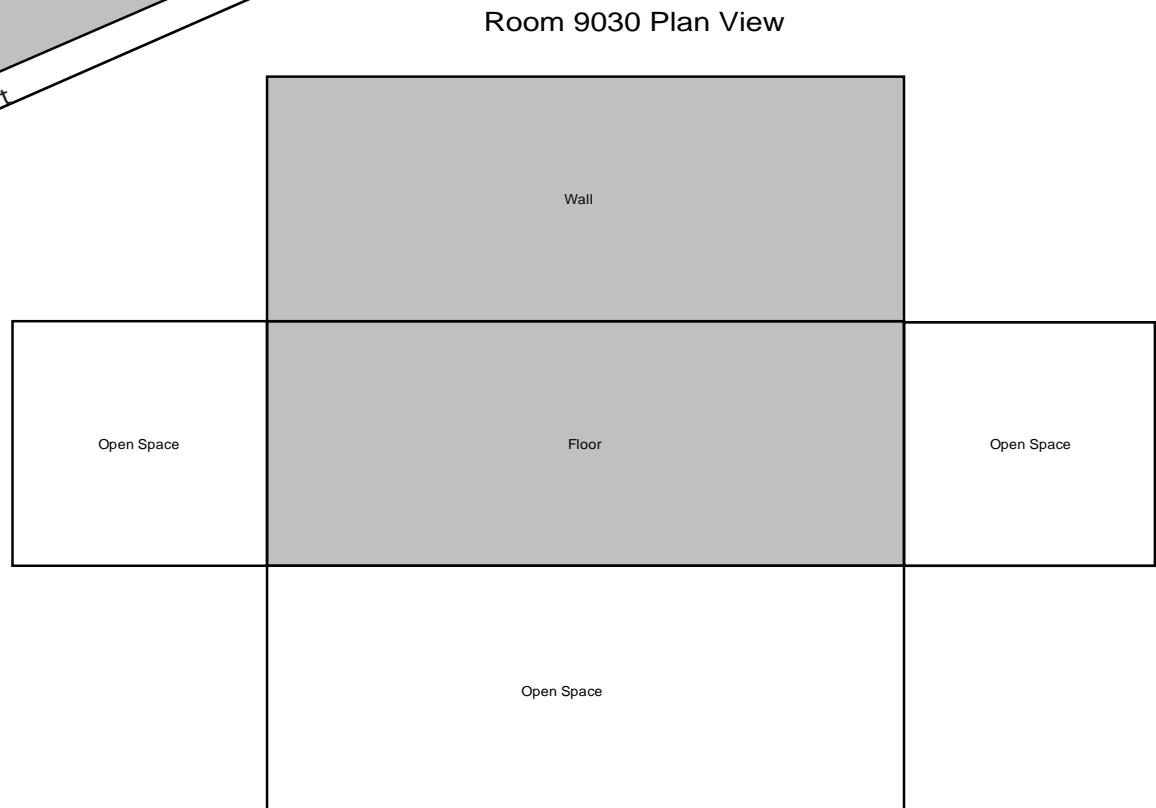
-  Storage Area Surface
-  Chainlink fence
-  Drain

Not to scale

Figure 14:
Technical Area (TA) 3, Building 29, Portion of Room 9020



Not to scale



 Storage Area Surface

Figure 15:
Technical Area 3, Building 29, Portion of Room 9030

FIGURE 16 – RESERVED

FIGURE 17 – RESERVED

FIGURE 18 – RESERVED

FIGURE 19 – RESERVED

FIGURE 20 – RESERVED

FIGURE 21 – RESERVED

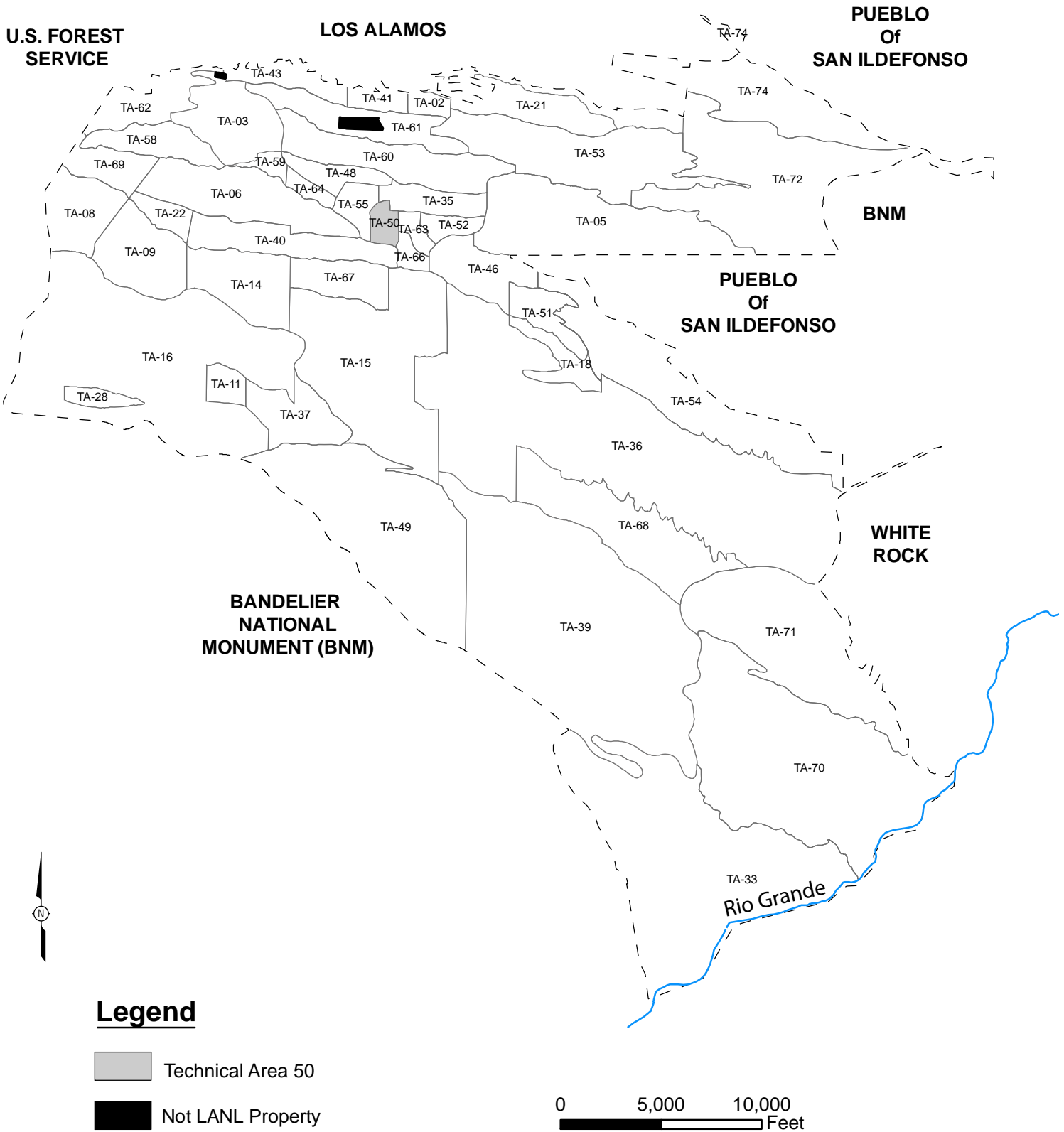
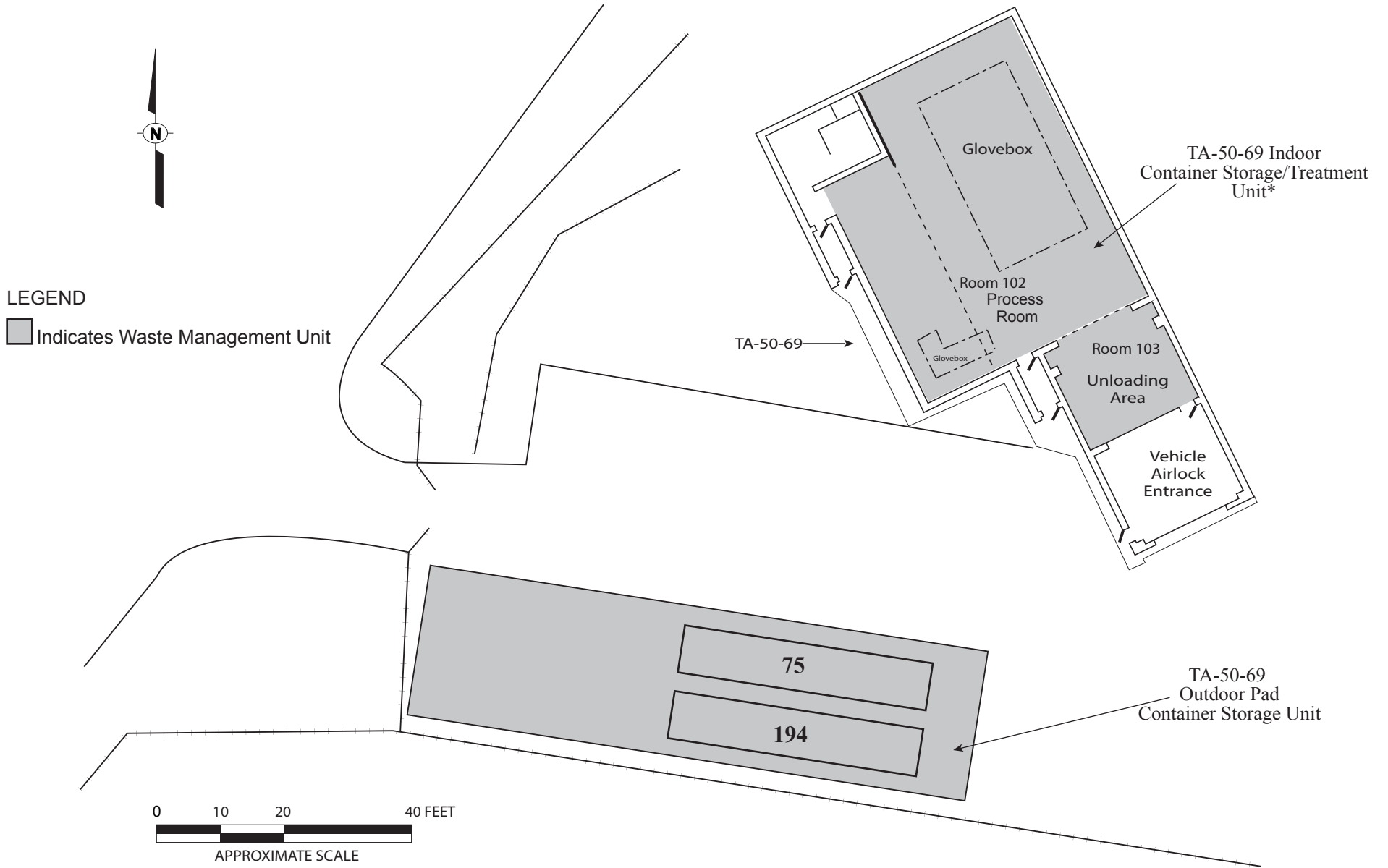


Figure 22:

Technical Area (TA) 50 Location Map

Created by EP-WES-EDA GIS TEAM. Map Number 06-0108 November 13, 2008, modified by ENV-RCRA August 2009
 State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
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 Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; Infrastructure Planning Office. 04 June 2008
 Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 04 June 2008



*Note: Container Storage Area in Building 69 does not include mezzanine.

Figure 23
 Technical Area (TA) 50, Building 69, Indoor Storage/Treatment Unit and Outdoor Container Storage Unit

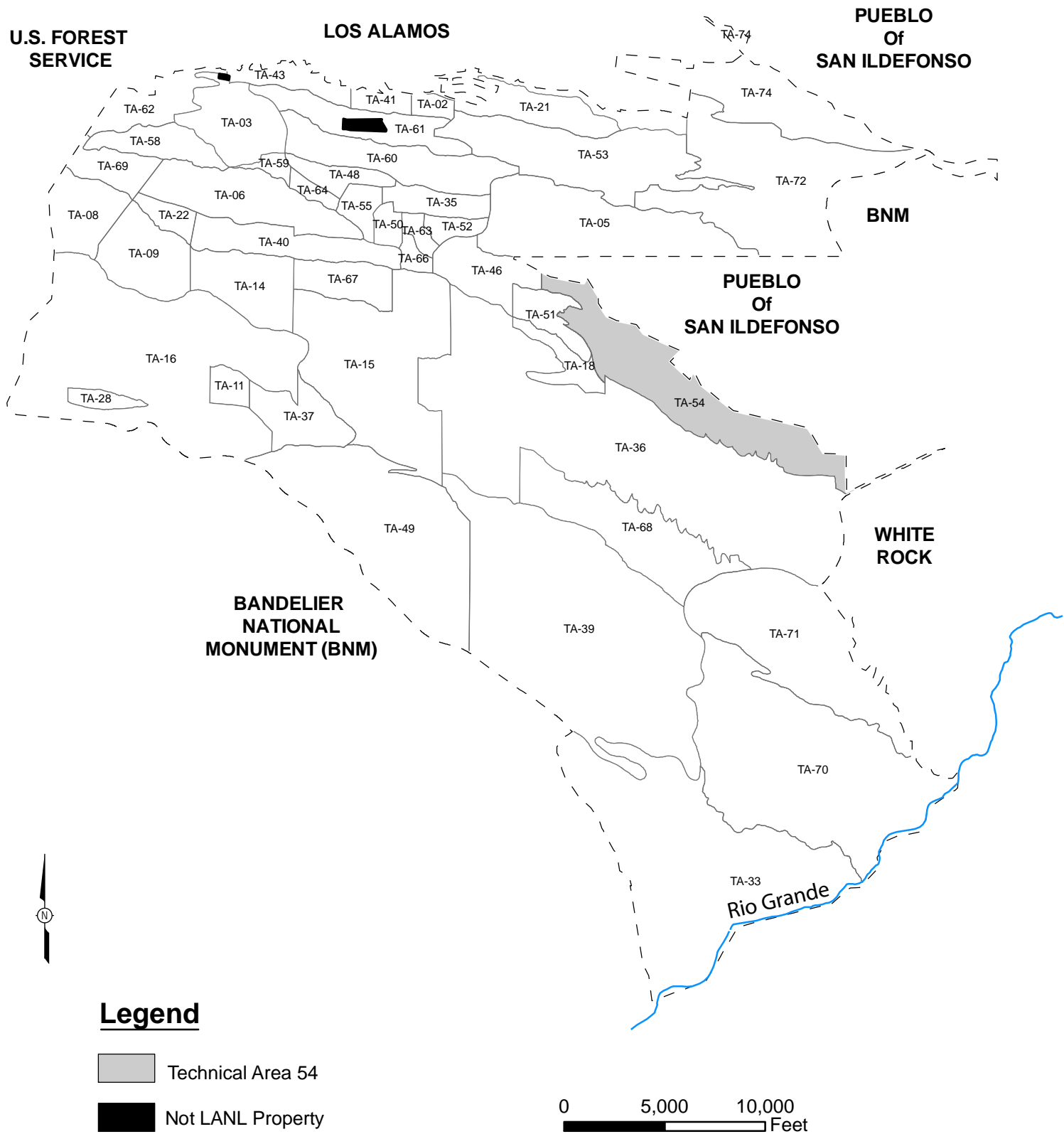


Figure 24:
 Technical Area (TA) 54 Location Map

Created by EP-WES-EDA GIS TEAM. Map Number 06-0108 November 13, 2008, modified by ENV-RCRA August 2009
 State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
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 Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; Infrastructure Planning Office. 04 June 2008
 Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 04 June 2008

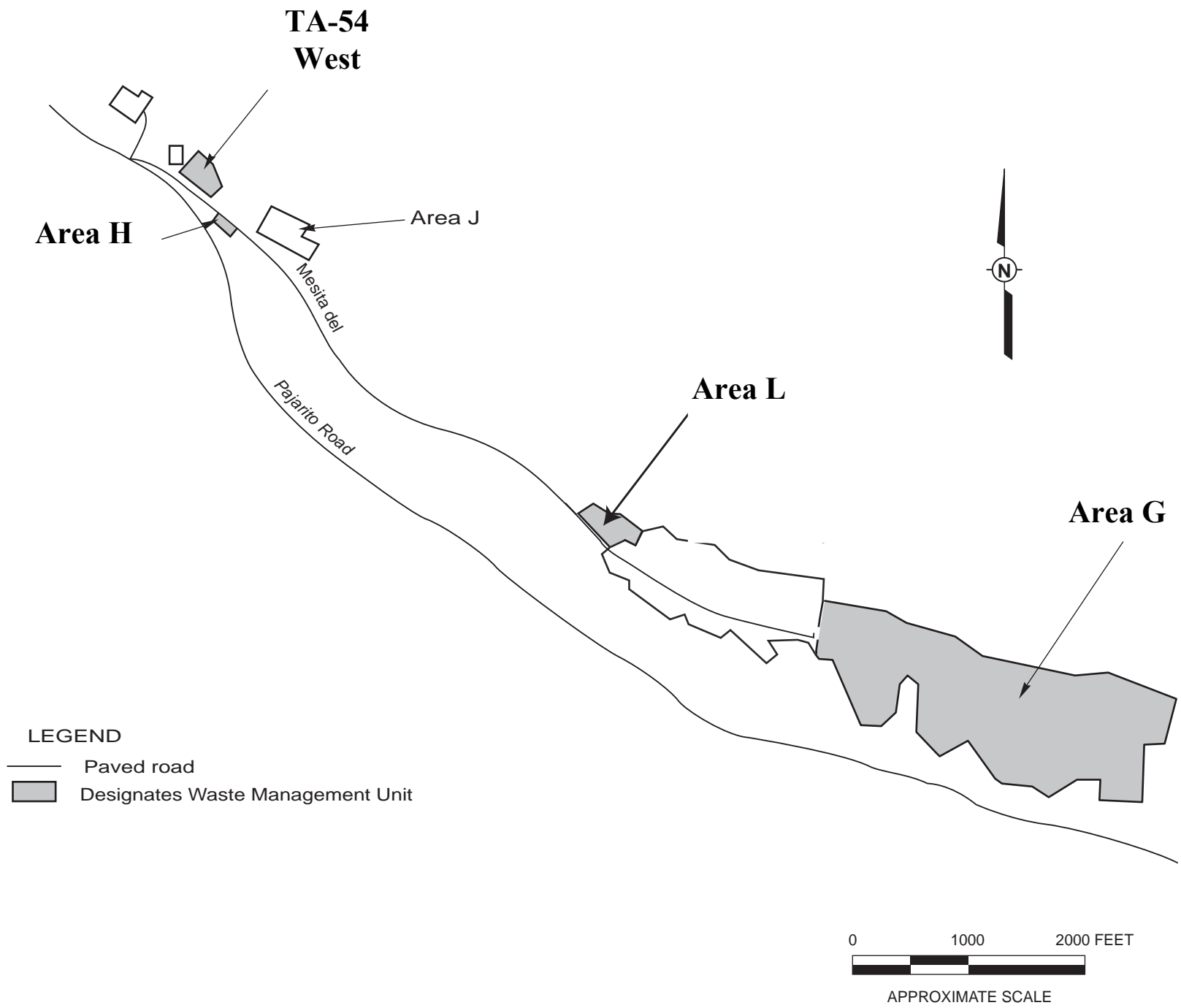


Figure 25
 Technical Area (TA)-54, Areas G, H, L, and TA-54 West Location Map

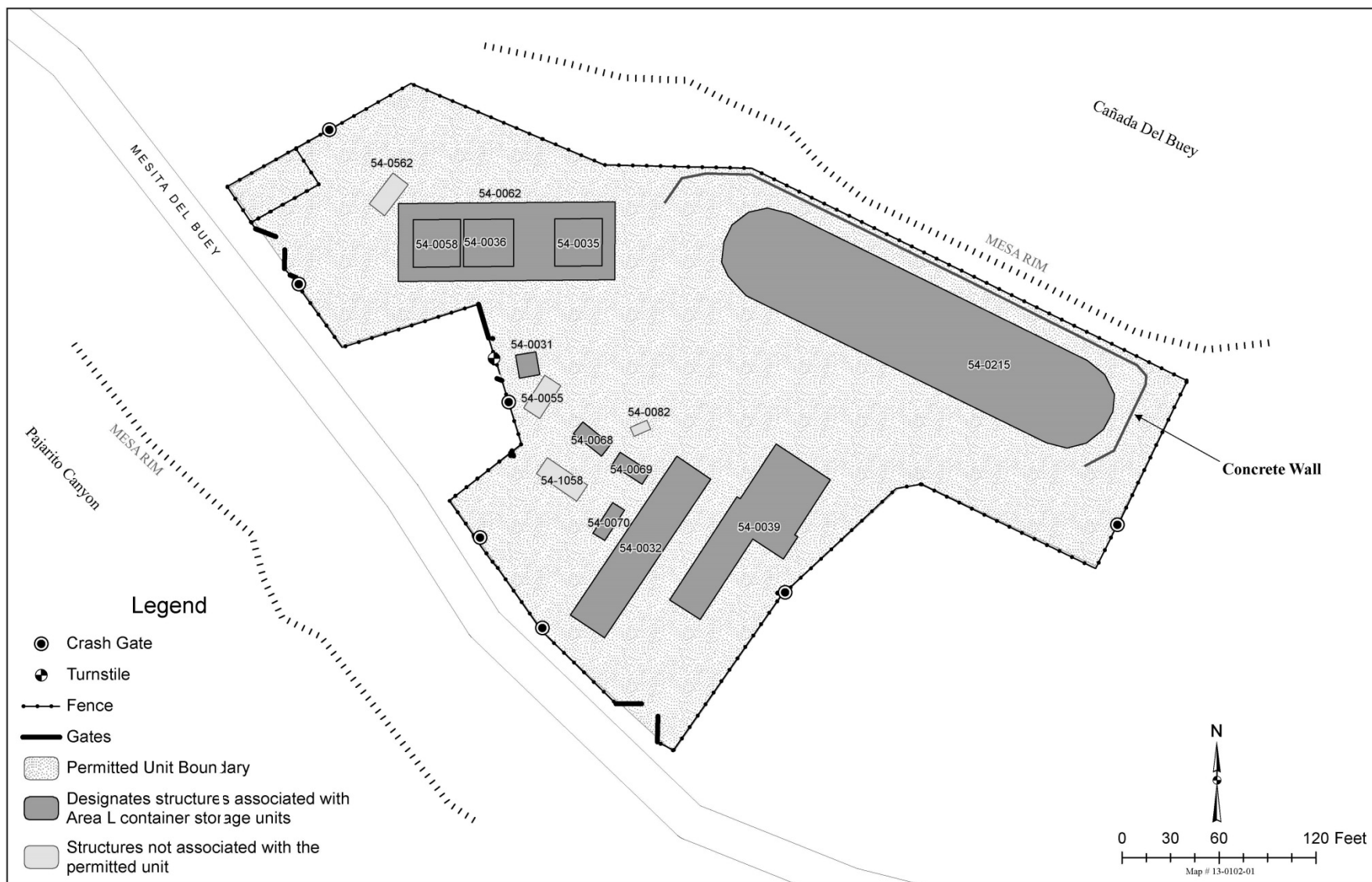


Figure 26: Technical Area 54, Area L, Container Storage Unit

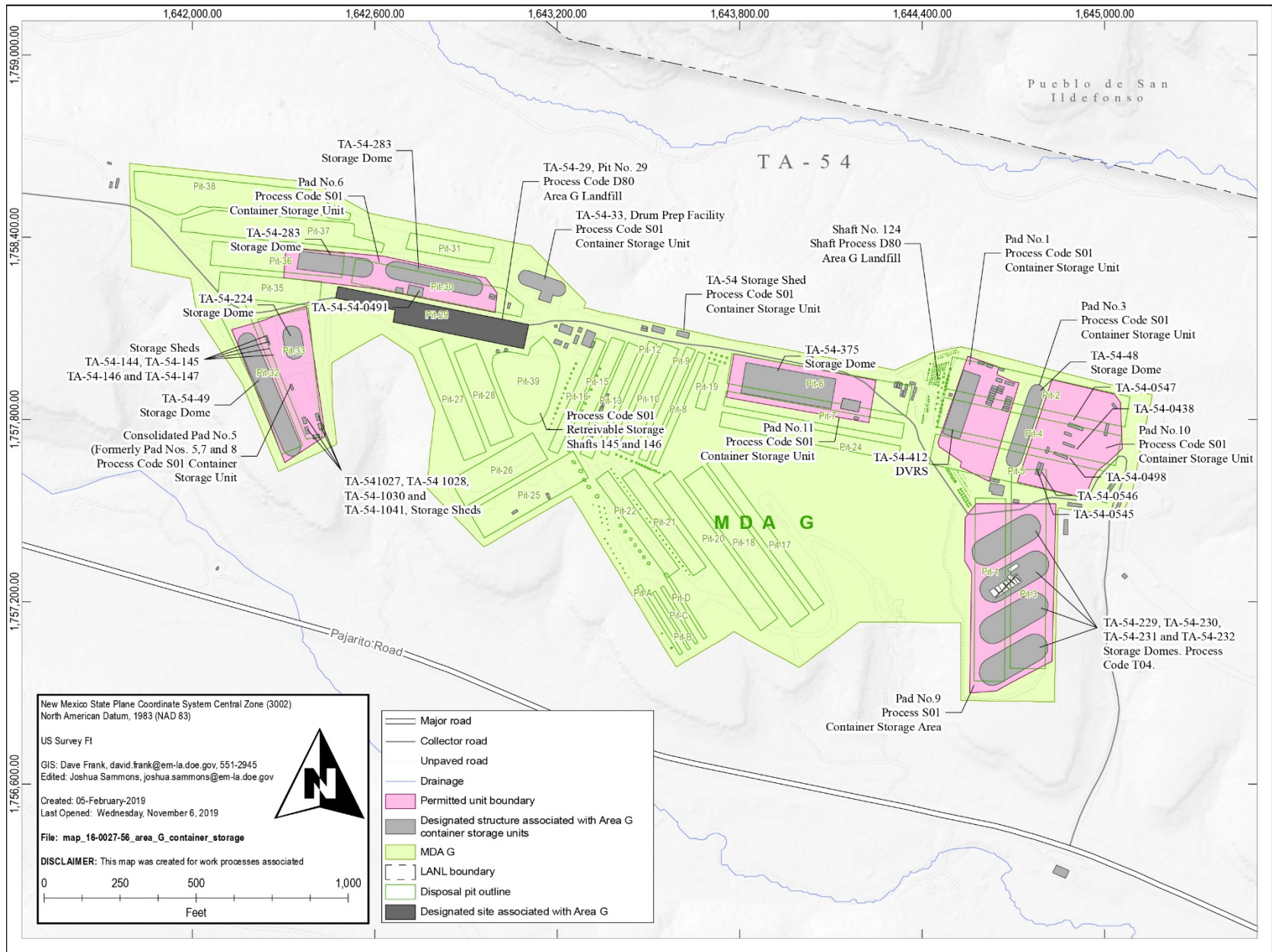


Figure 27: Technical Area 54, Area G, Container Storage/Treatment Units

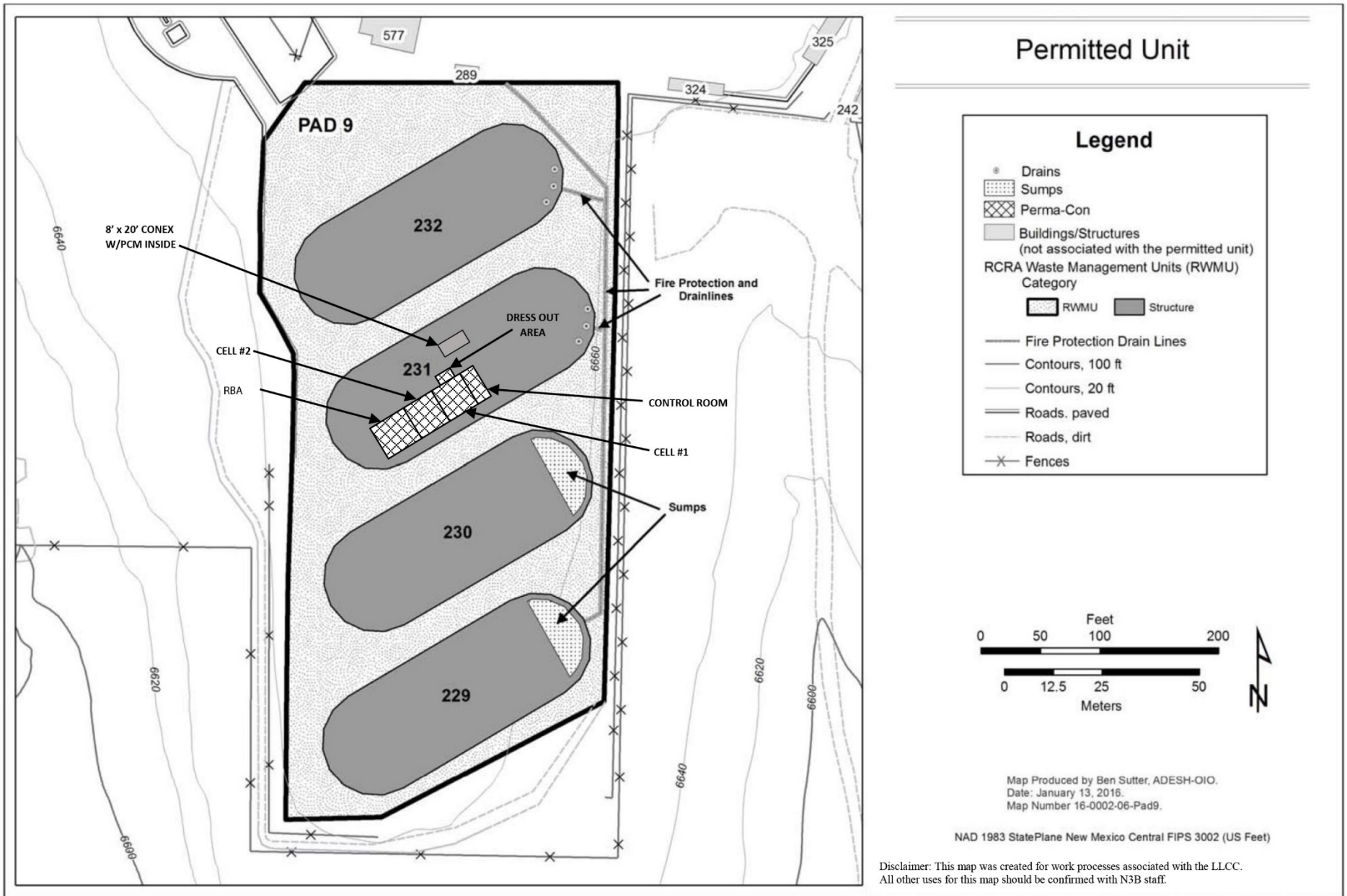
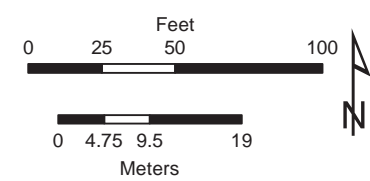
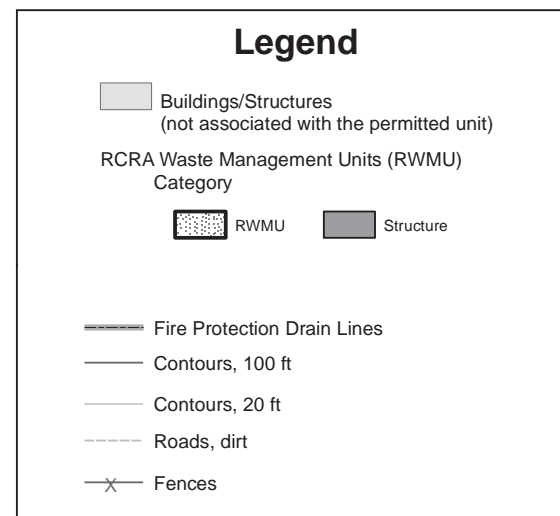
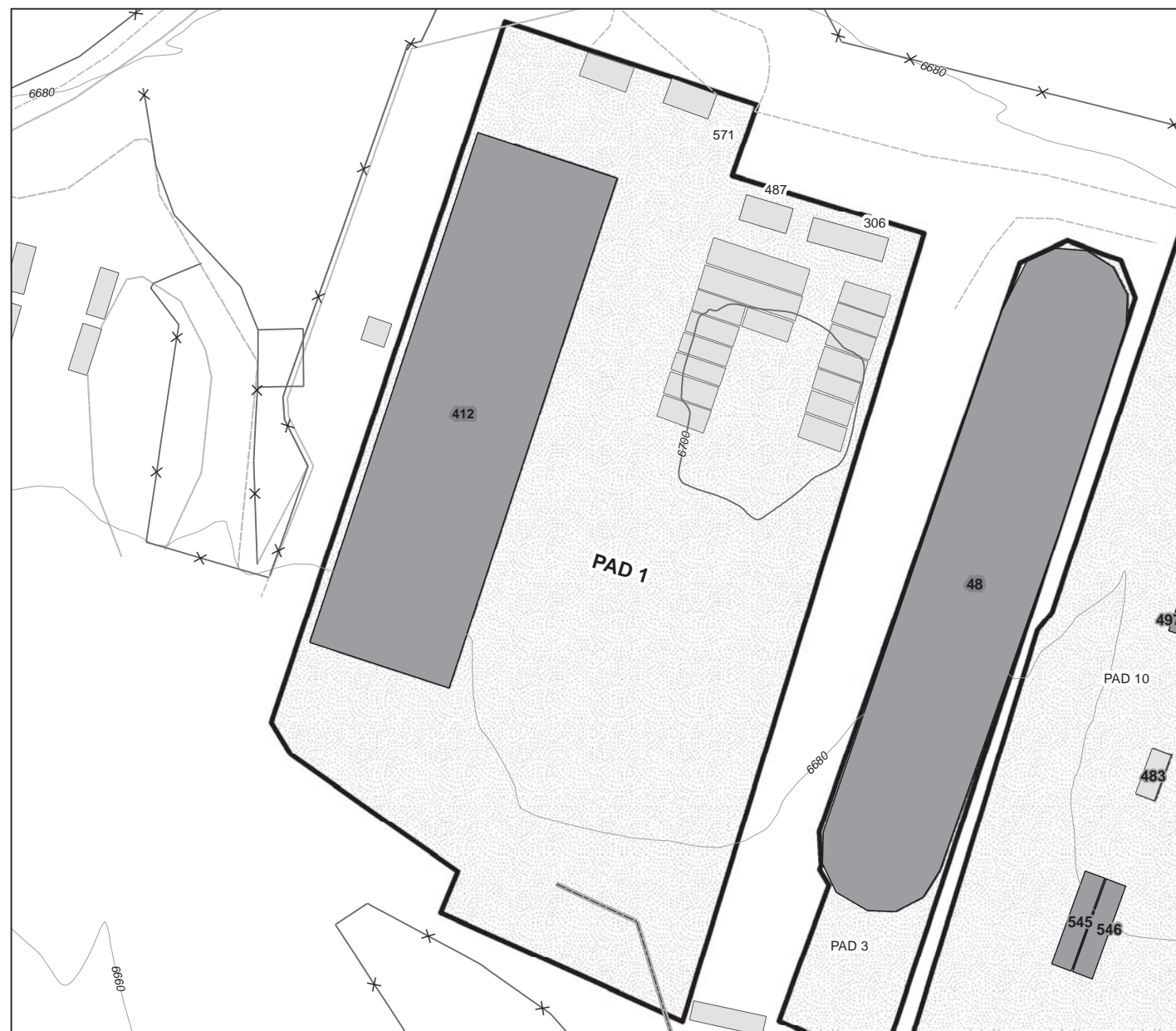


Figure 28: TA-54, Area G, Pad 9 Outdoor Container Storage/Treatment Unit (TWSP Domes 229, 230, 231, and 232)

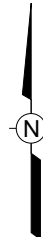
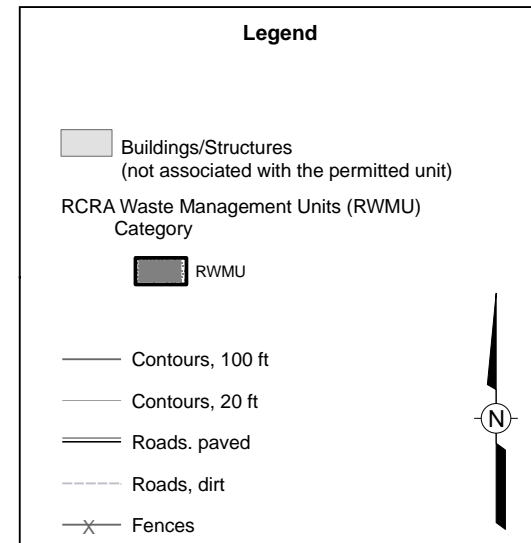
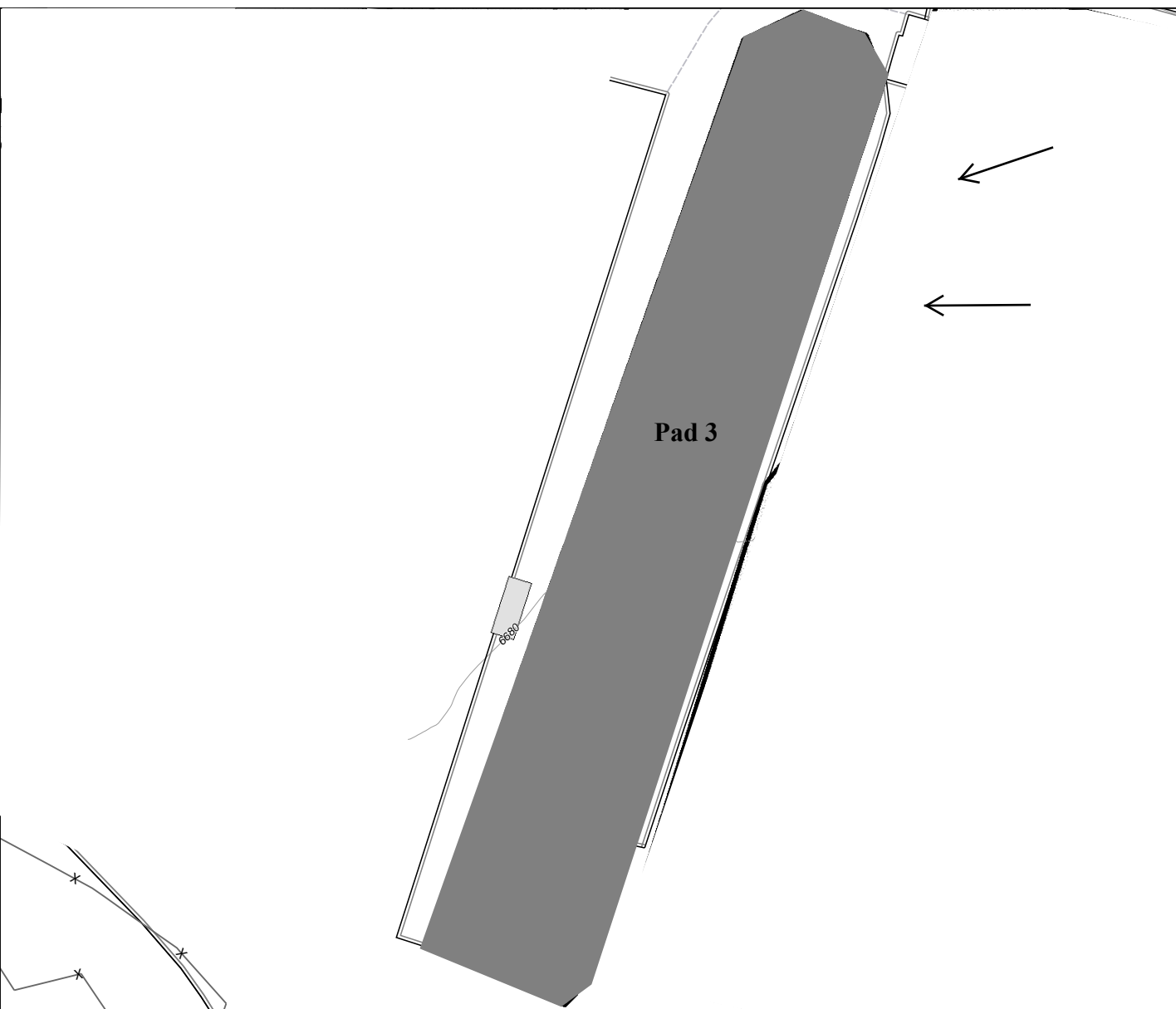


Map Produced by Ben Sutter, ADI-SI.
 Date: March 20, 2017.
 Map Number 17-0020-03-Pad1-General.

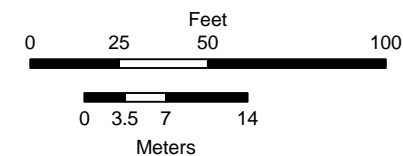
NAD 1983 StatePlane New Mexico Central FIPS 3002 (US Feet)

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL, ENV Division, Water Quality & RCRA.

Figure 29: TA-54, Area G, Pad 1



1:475



State Plane Coordinate System New Mexico, Central Zone, US Feet
NAD 1983 Datum

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL, ENV Division, Water Quality & RCRA.

Figure 30:
Technical Area (TA)-54, Area G, Pad 3

Permitted Unit

Legend

Buildings/Structures
(not associated with the permitted unit)

RCRA Waste Management Units (RWMU)
Category

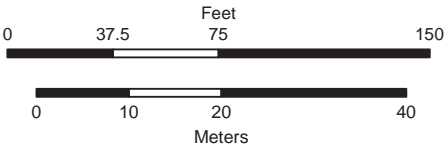
RWMU Structure

Contours, 100 ft

Contours, 20 ft

Roads, dirt

Fences



Map Produced by Ben Sutter, ADBI-SI.
Date: March 20, 2017.
Map Number 17-0020-01-Pad10.

NAD 1983 StatePlane New Mexico Central FIPS 3002 (US Feet)

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL, ENV Division, Water Quality & RCRA.

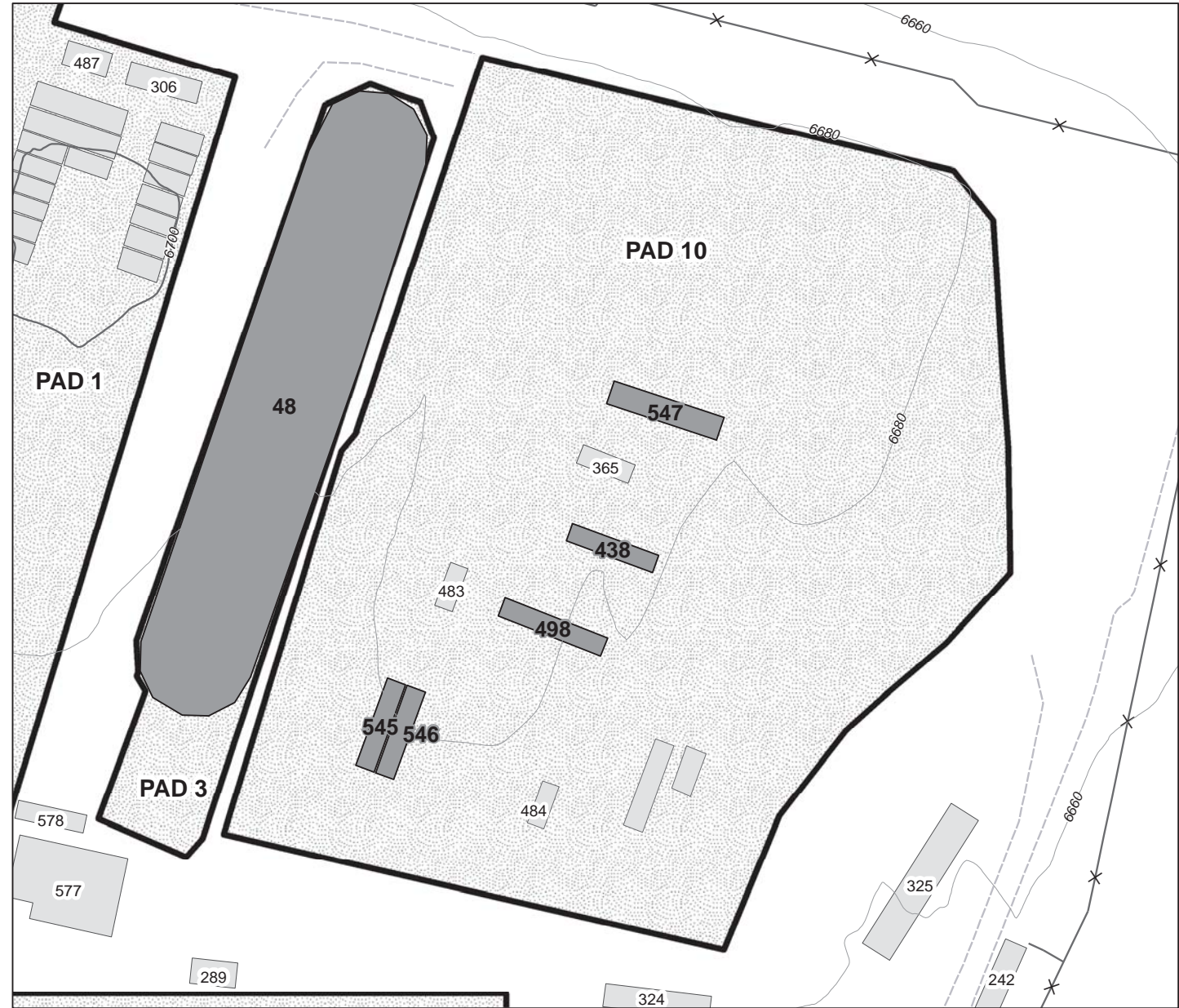
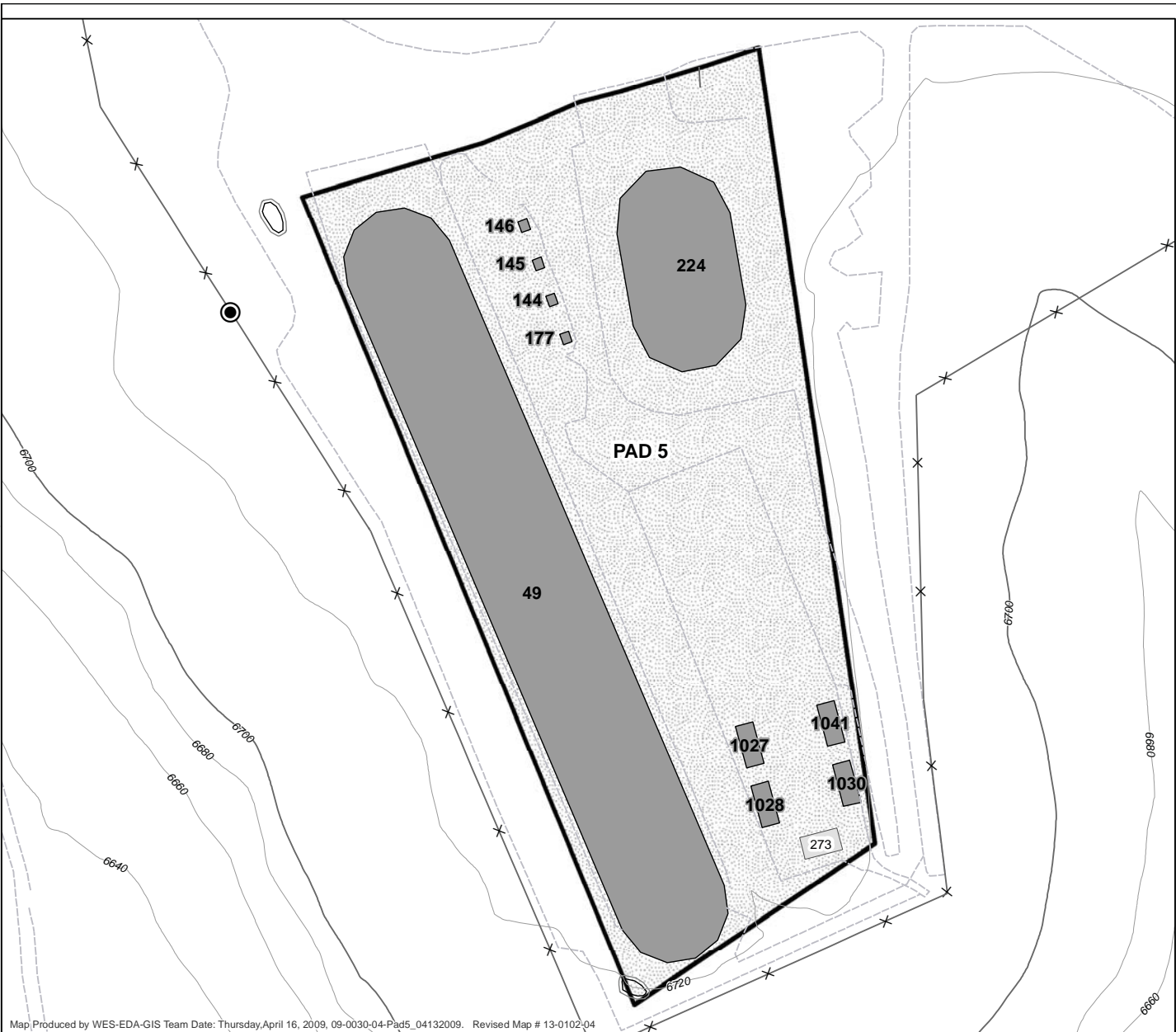


Figure 31: TA-54, Area G, Pad 10

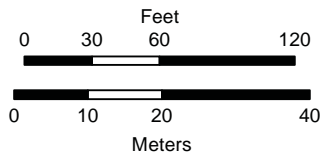


Permitted Unit

Legend

- Maintenance Gate
- Buildings/Structures (not associated with the permitted unit)
- RCRA Waste Management Units (RWMU) Category
 - ▨ RWMU
 - Structure
- Contours, 100 ft
- Contours, 20 ft
- == Roads, paved
- - - Roads, dirt
- x Fences

1:750

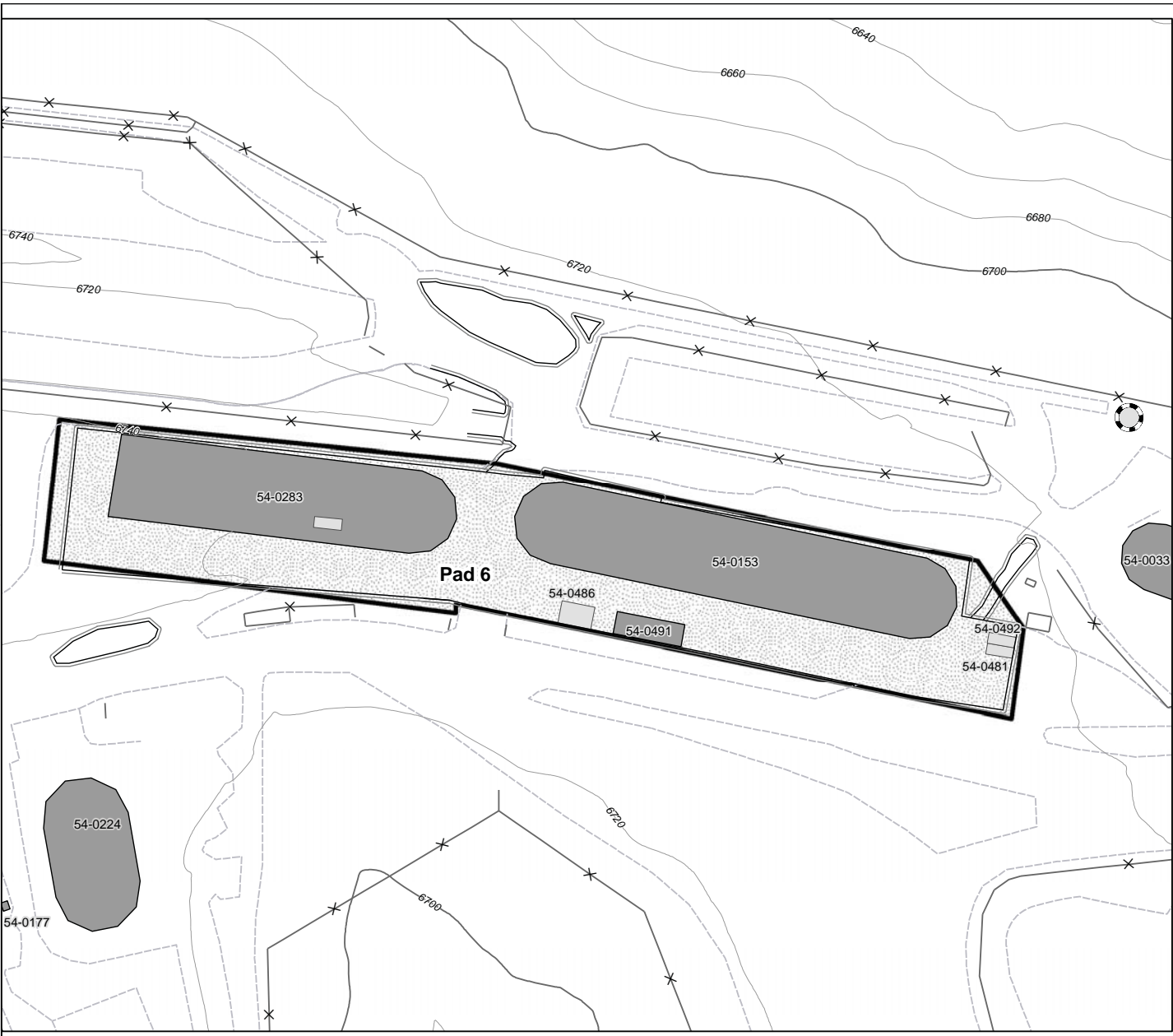


State Plane Coordinate System New Mexico, Central Zone, US Feet
NAD 1983 Datum

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL, ENV Division, Water Quality & RCRA.

Map Produced by WES-EDA-GIS Team Date: Thursday, April 16, 2009, 09-0030-04-Pad5_04132009. Revised Map # 13-0102-04

Figure 32: Technical Area (TA)-54, Area G, Pad 5 (Domes 49 and 224; and Storage Sheds 114, 145, 146, 177, 1027, 1028, 1030, and 1041)



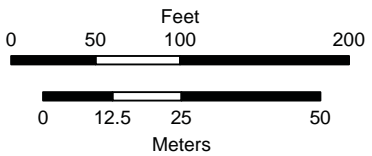
Permitted Unit

Legend

- Buildings/Structures (not associated with the permitted unit)
- RCRA Waste Management Units (RWMU) Category**
- RWMU
- Structure
- Sediment Trap
- Contours, 100 ft
- Contours, 20 ft
- Roads, paved
- Roads, dirt
- Fences



1:1,000



State Plane Coordinate System New Mexico, Central Zone, US Feet
NAD 1983 Datum

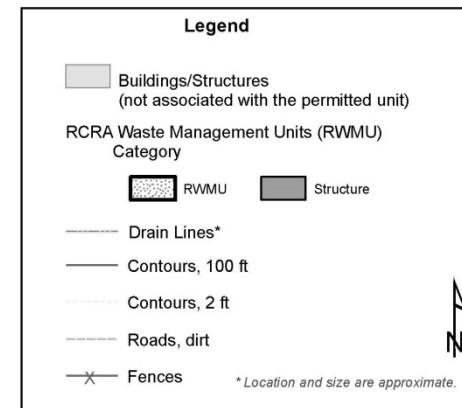
Map Produced by Ben Sutter, ADBI-SI.
Date: March 20, 2017.
Map Number 17-0020-08.

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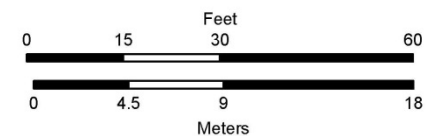
Figure 33: Technical Area (TA)-54, Area G, Pad 6, (Domes 153 & 283)



Permitted Unit



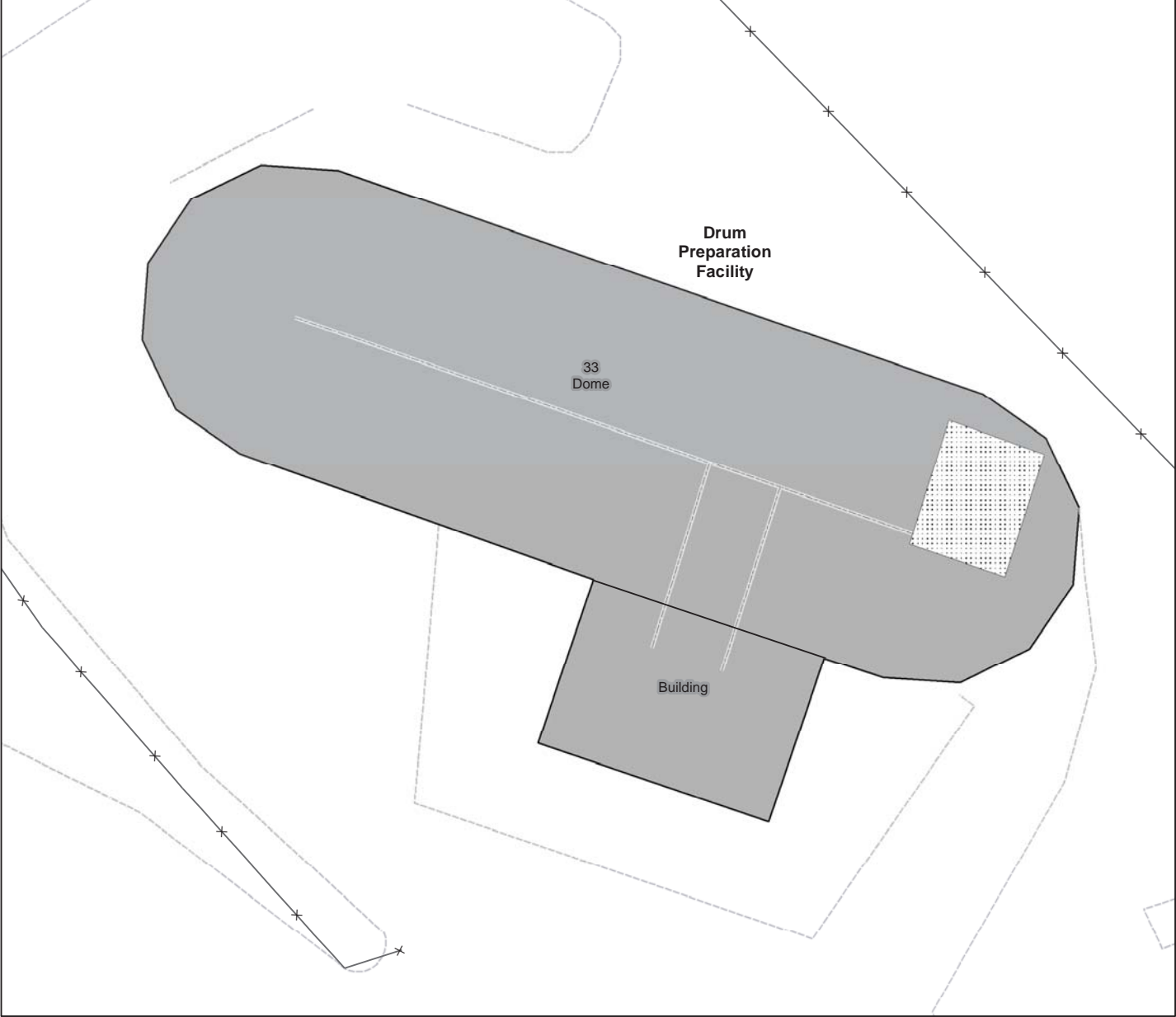
1:230



State Plane Coordinate System New Mexico, Central Zone, US Feet
NAD 1983 Datum

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Figure 34: Technical Area (TA)-54, Area G, Storage Shed 8



Legend

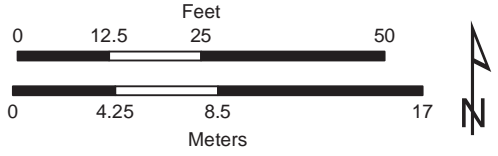
- Sumps*
- Buildings/Structures
(not associated with the permitted unit)

RCRA Waste Management Units (RWMU)
Category

- RWMU
- Structure

- Drain Lines*
- Contours, 100 ft
- Contours, 20 ft
- Roads, paved
- Roads, dirt
- Fences

* Location and size are approximate.



Map Produced by Ben Sutter, ADESH-OIO.
Date: March 20, 2017.
Map Number 17-0020-07-Building33_2.

NAD 1983 StatePlane New Mexico Central FIPS 3002 (US Feet)

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL, ENV Division, Water Quality & RCRA..

Figure 35
Technical Area (TA)-54, Area G, Building 33

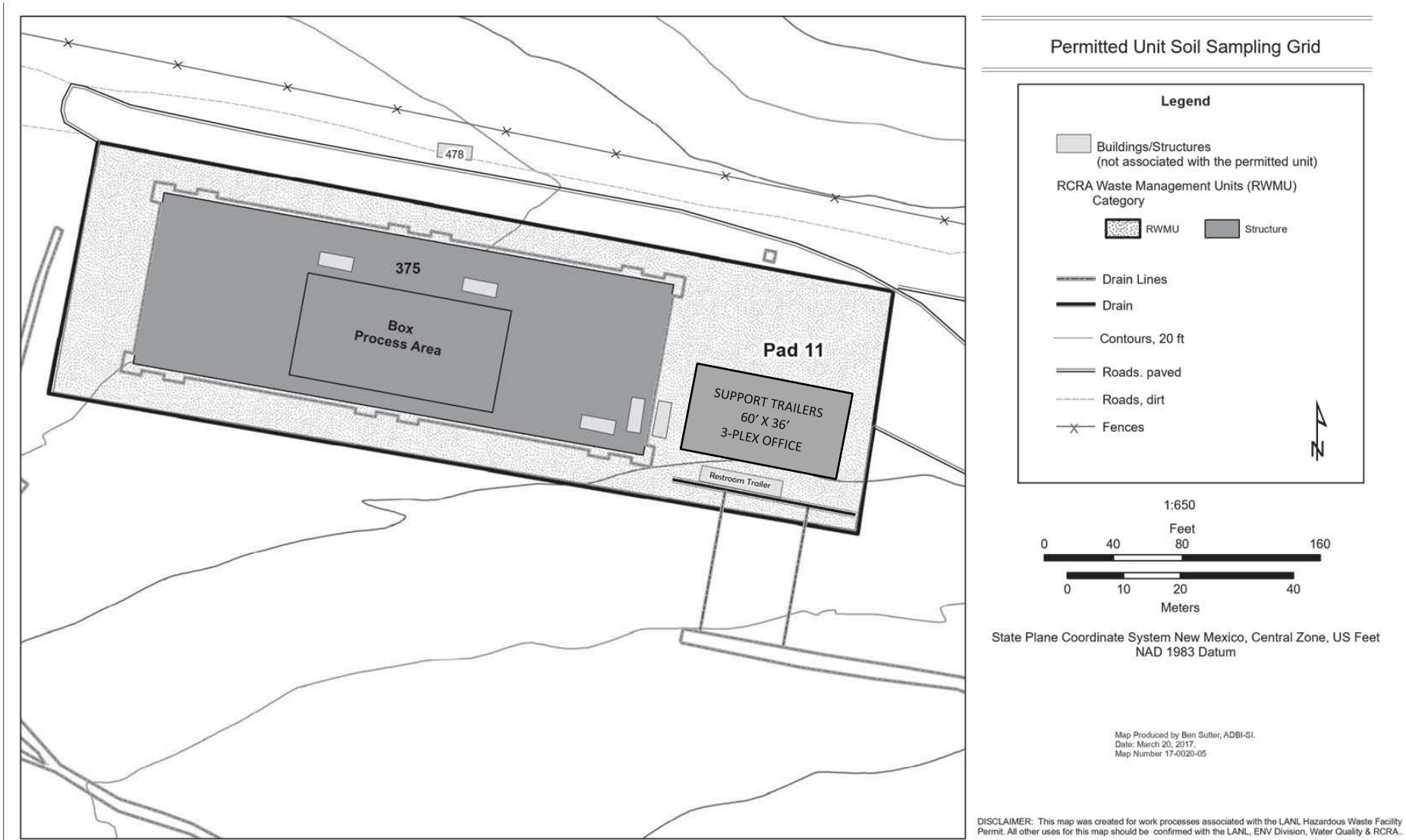


Figure 36: TA-54, Area G, Pad 11

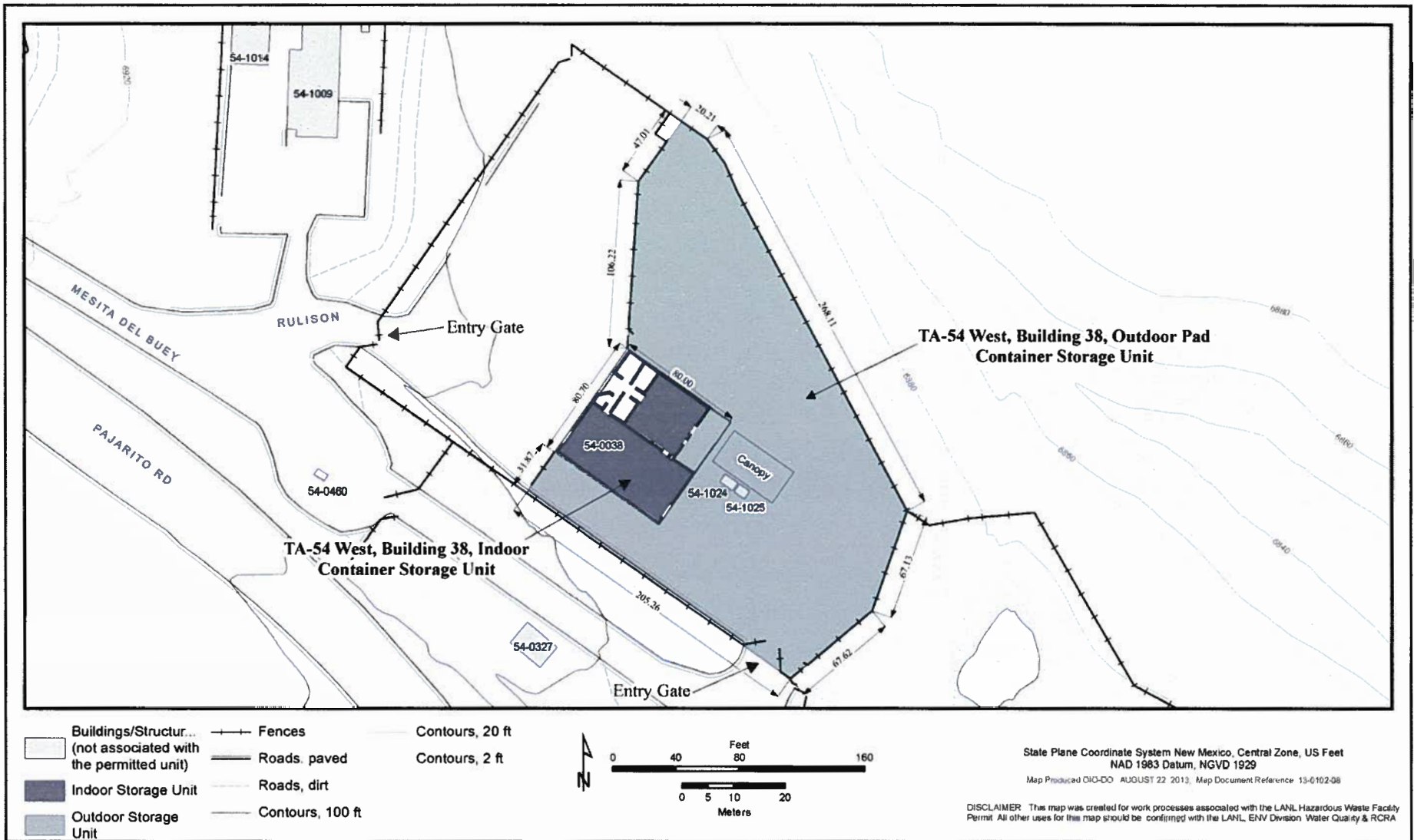


Figure 37: Technical Area (TA) 54 West, Building 38 Indoor (High Bay and Low Bay) and Outdoor Pad

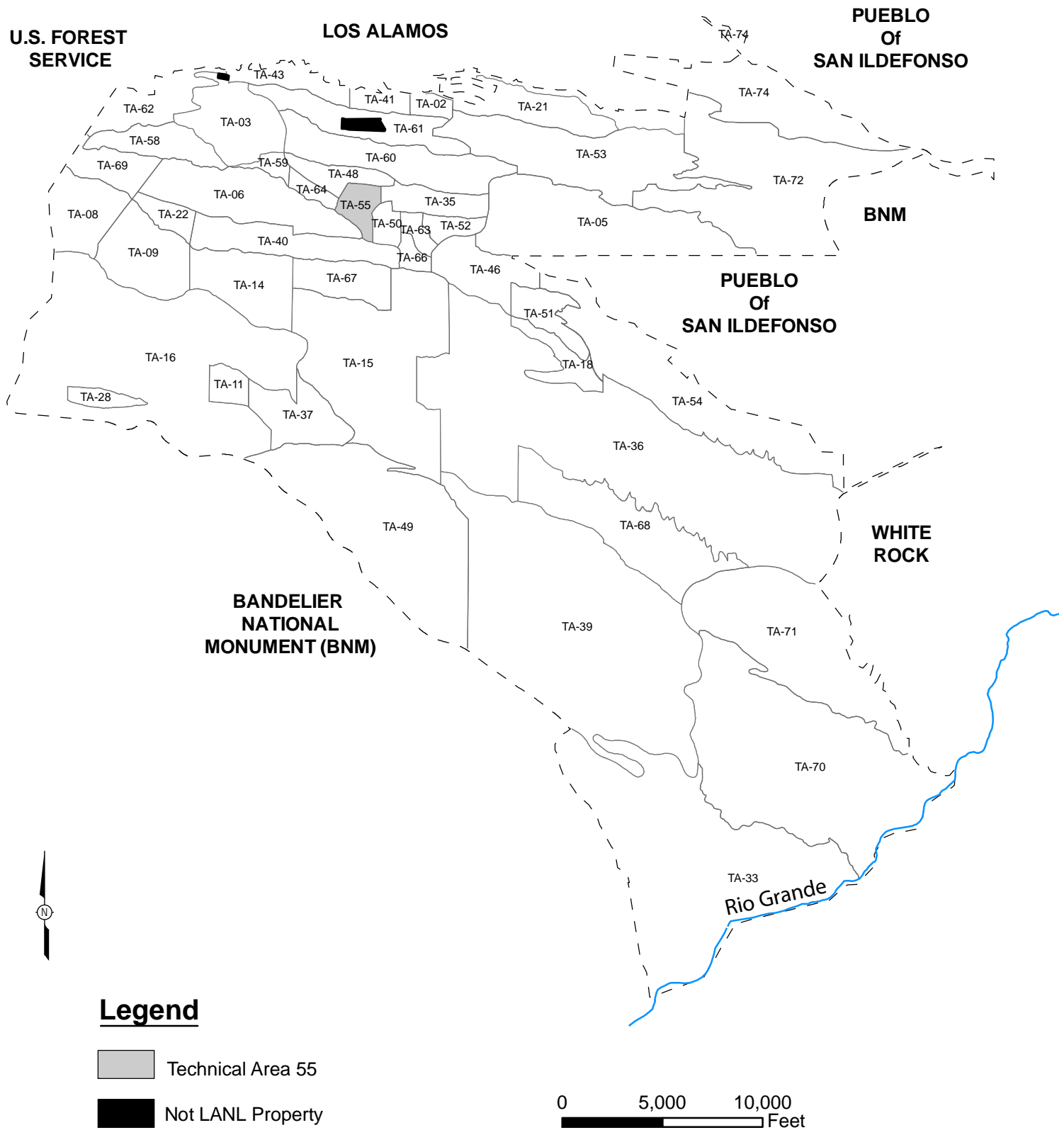


Figure 38:

Technical Area (TA) 55 Location Map

Created by EP-WES-EDA GIS TEAM. Map Number 06-0108 November 13, 2008, modified by ENV-RCRA August 2009
 State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
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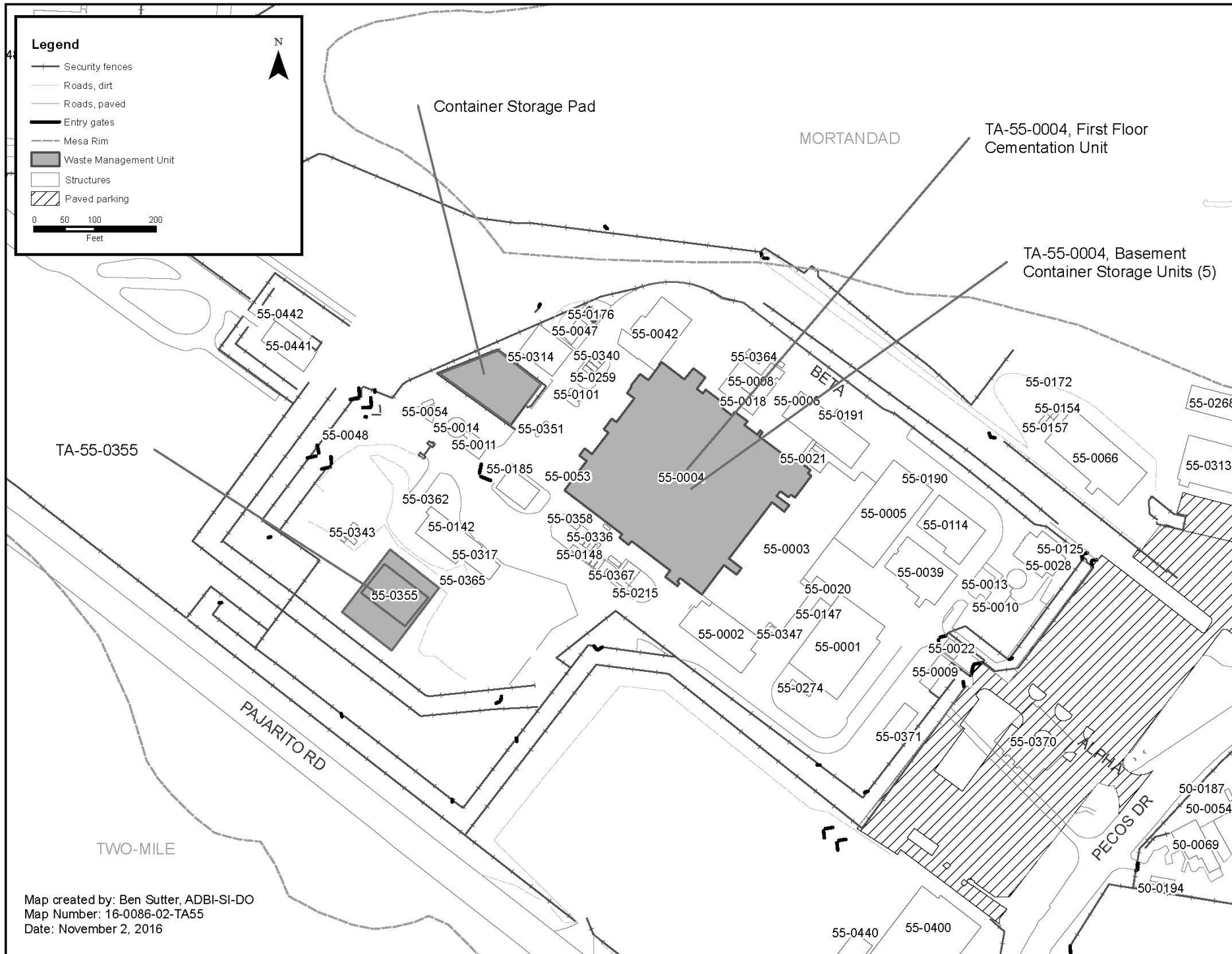


Figure 39
Technical Area (TA) 55, Building 4 Location Map

(FIGURE 40 - TA-55, BUILDING 4, ROOM B40)

UCNI

LOS ALAMOS NATIONAL LABORATORY

**THIS FIGURE CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR
INFORMATION (UCNI) AS DEFINED BY SECTION 148 OF THE ATOMIC ENERGY
ACT**

(FIGURE 41 - TA-55, BUILDING 4, ROOM K13)

UCNI

LOS ALAMOS NATIONAL LABORATORY

**THIS FIGURE CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR
INFORMATION (UCNI) AS DEFINED BY SECTION 148 OF THE ATOMIC ENERGY
ACT**

(FIGURE 42 - TA-55, BUILDING 4, ROOM B05)

UCNI

LOS ALAMOS NATIONAL LABORATORY

**THIS FIGURE CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR
INFORMATION (UCNI) AS DEFINED BY SECTION 148 OF THE ATOMIC ENERGY
ACT**

(FIGURE 43 - TA-55, BUILDING 4, ROOM B45)

UCNI

LOS ALAMOS NATIONAL LABORATORY

**THIS FIGURE CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR
INFORMATION (UCNI) AS DEFINED BY SECTION 148 OF THE ATOMIC ENERGY
ACT**

(FIGURE 44 - TA-55, BUILDING 4, VAULT)

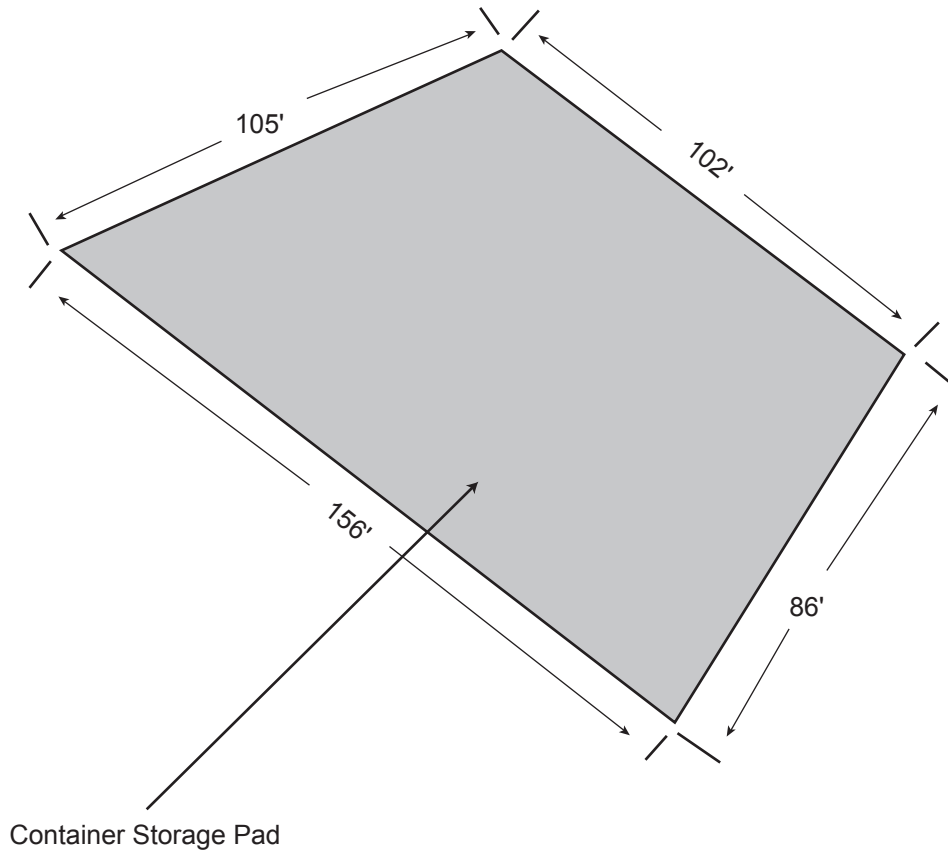
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ACT**



LEGEND
■ Designates Waste Management Unit



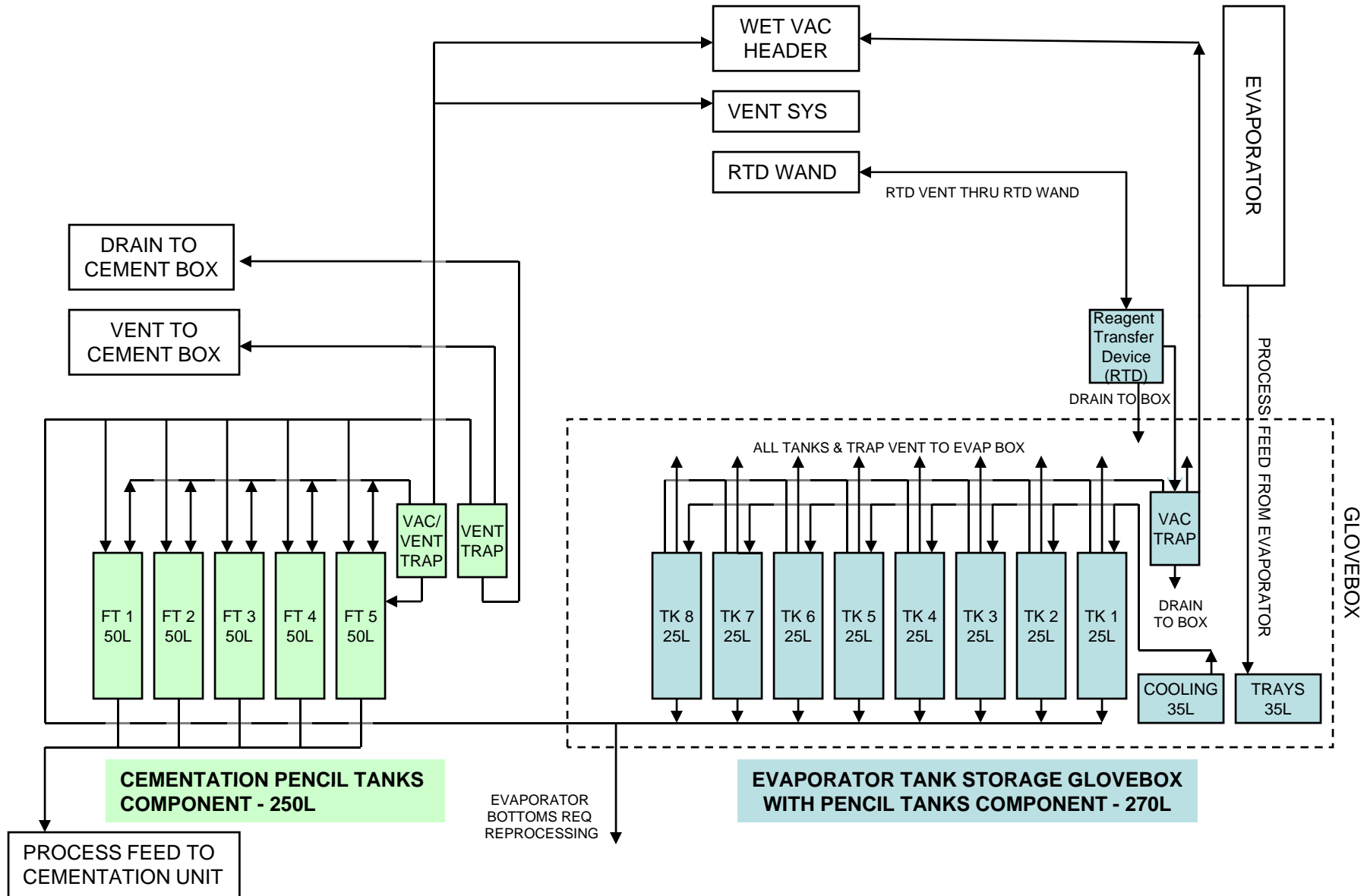
Note: TA-55-4 is located approximately 140 feet east of this container storage pad. Refer to Figure 39 for the general location of this container storage pad in relation to other buildings/structures at TA-55.

NOT TO SCALE

Figure 45
Technical Area (TA)-55, Building 4, Outdoor Container Storage Pad

Figure 46 Removed December 2015

Figure 47: TA-55, Building 4, Room 401, Storage Tank System Process Flow Diagram



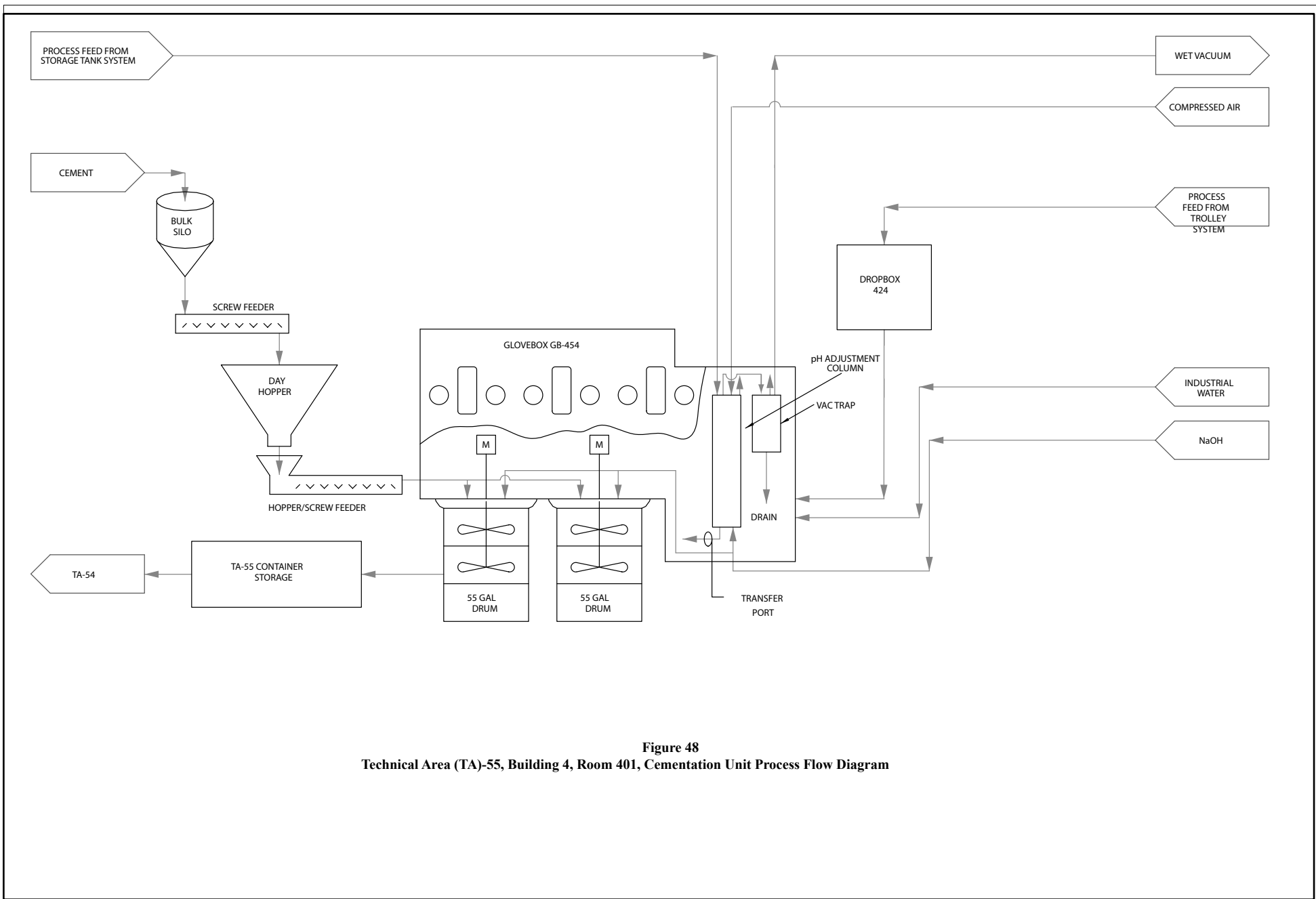


Figure 48
 Technical Area (TA)-55, Building 4, Room 401, Cementation Unit Process Flow Diagram

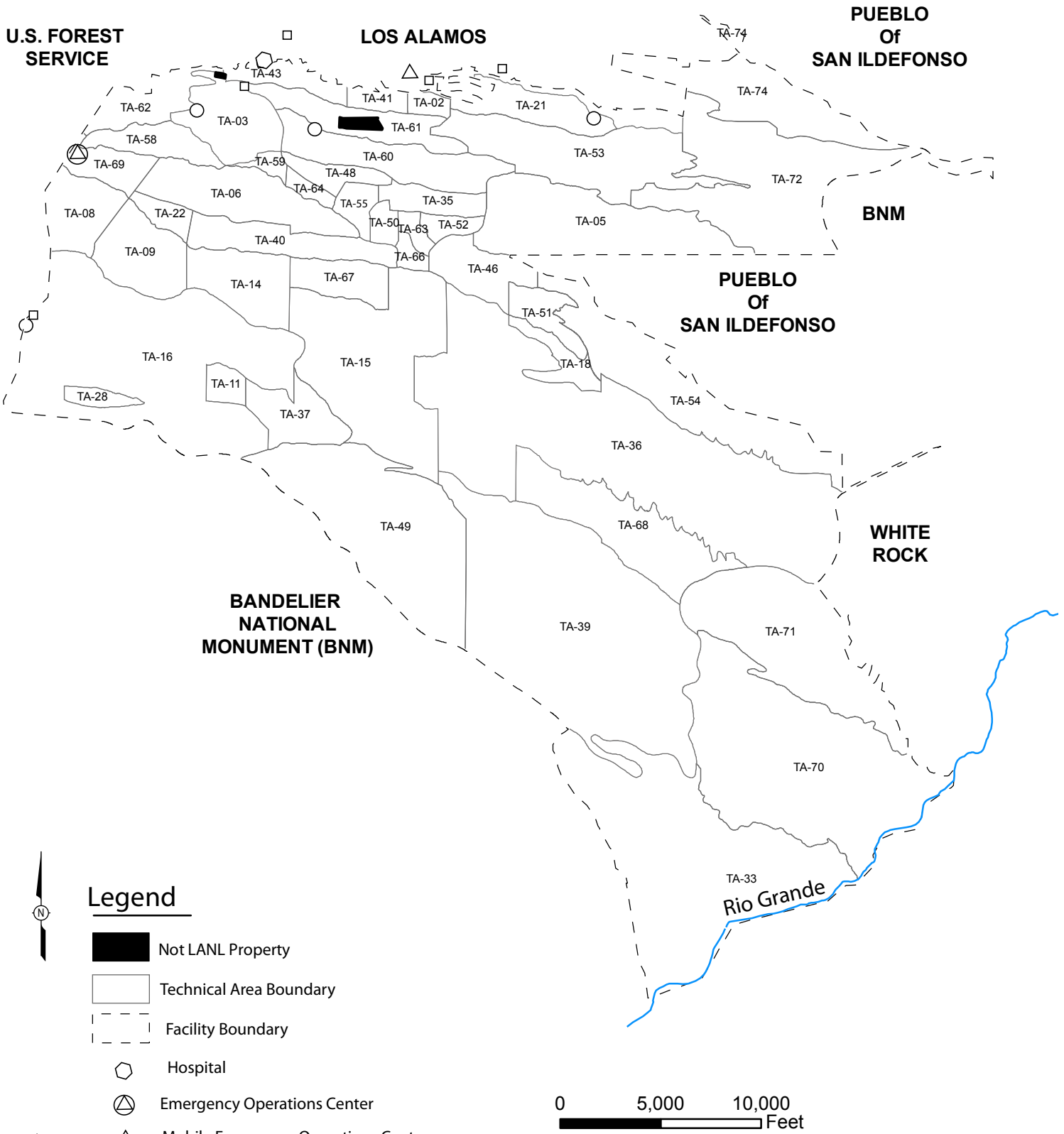
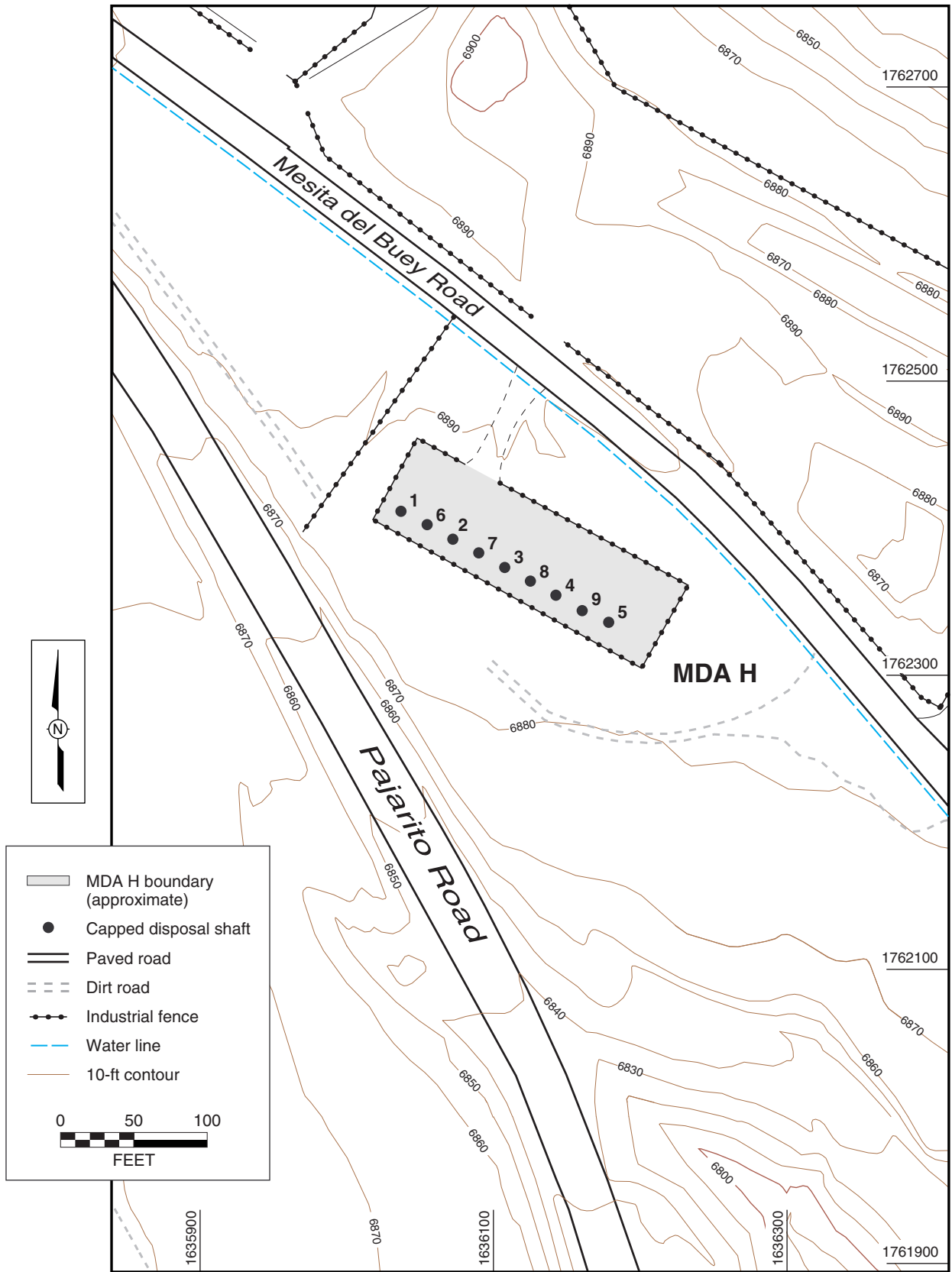


Figure 49:
Emergency Facilities at Los Alamos National Laboratory (LANL)



F1.0-2, MDA H CMS, 052003, cf

Figure 50:
 Technical Area (TA)-54, Material Disposal Area (MDA) H

FIGURE 51 – RESERVED

FIGURE 52 – RESERVED

FIGURE 53 – RESERVED

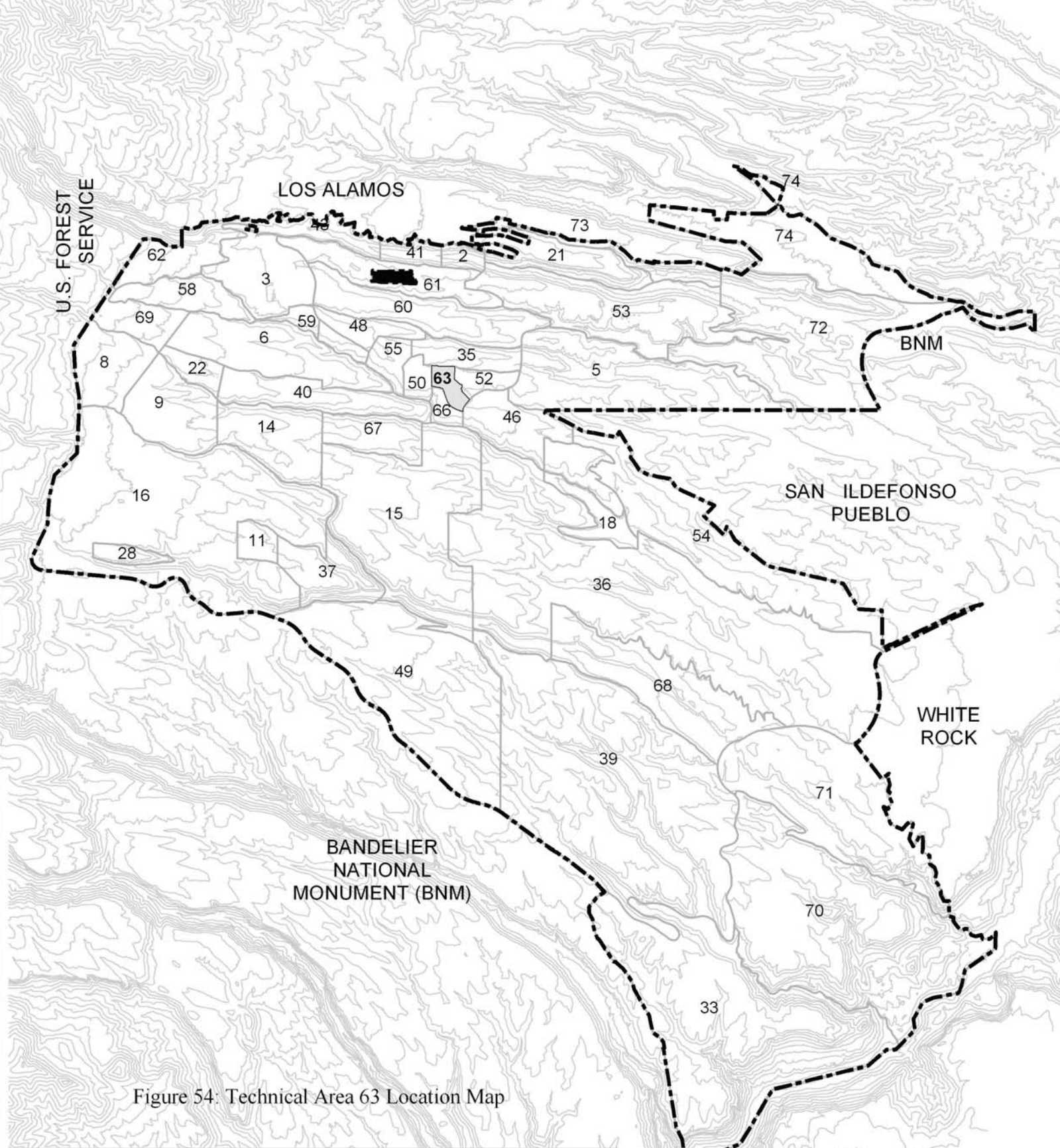







Figure 54: Technical Area 63 Location Map

Location of TA-63 at Los Alamos National Laboratory

-  Not LANL property
-  LANL boundary
-  TA-63
-  Technical Area boundary (2010-08-13)
-  Contours, 100 ft



TA-63









TWF Permitted Unit

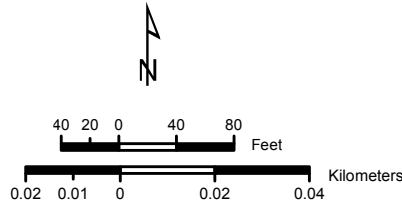
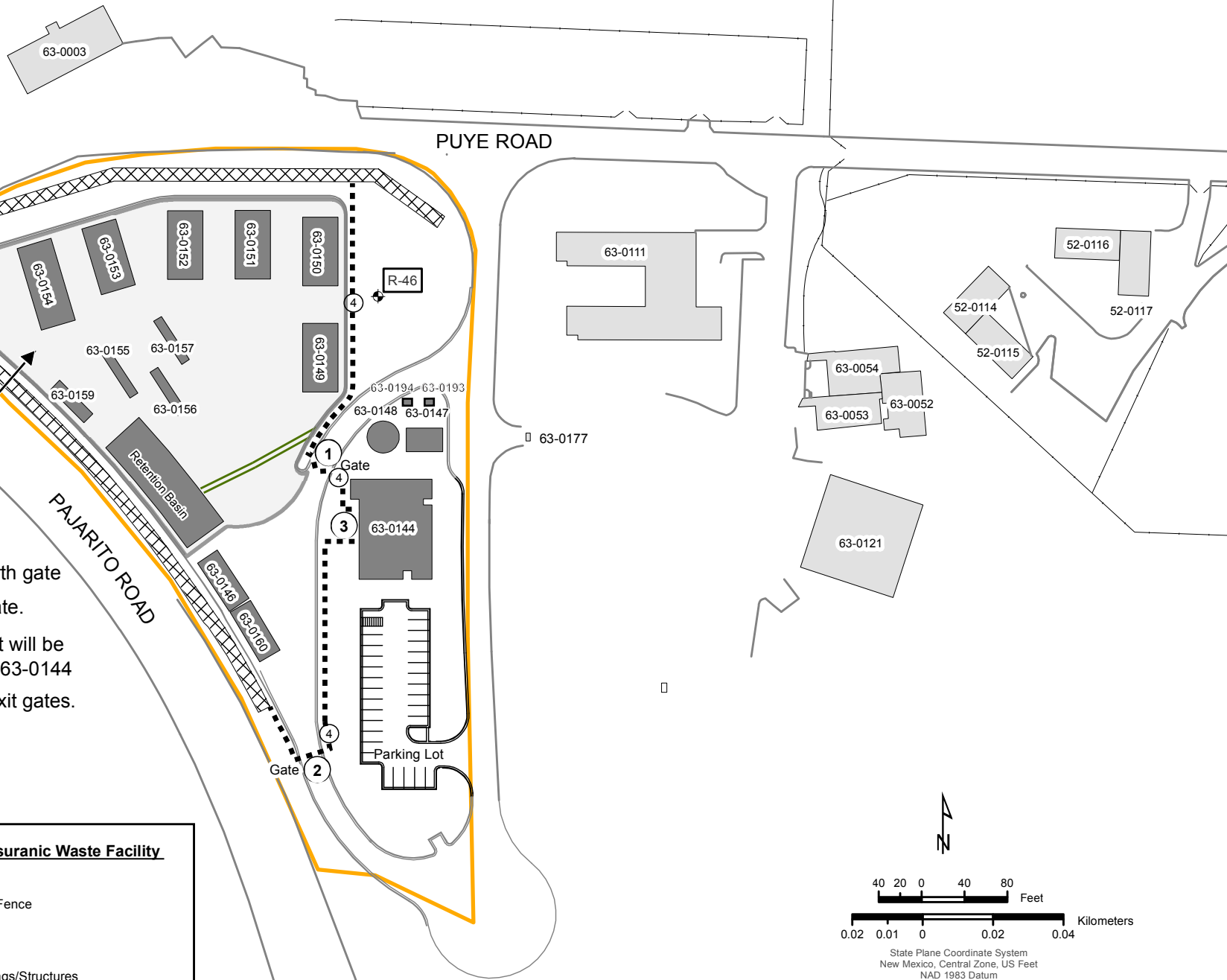
KEYED NOTES:

- ① Vehicle entrance via north gate
- ② Vehicle exit via south gate.
- ③ Personnel entry and exit will be via Operations Building 63-0144
- ④ Emergency personnel exit gates.

FIGURE 55.

Technical Area (TA) 63 Transuranic Waste Facility

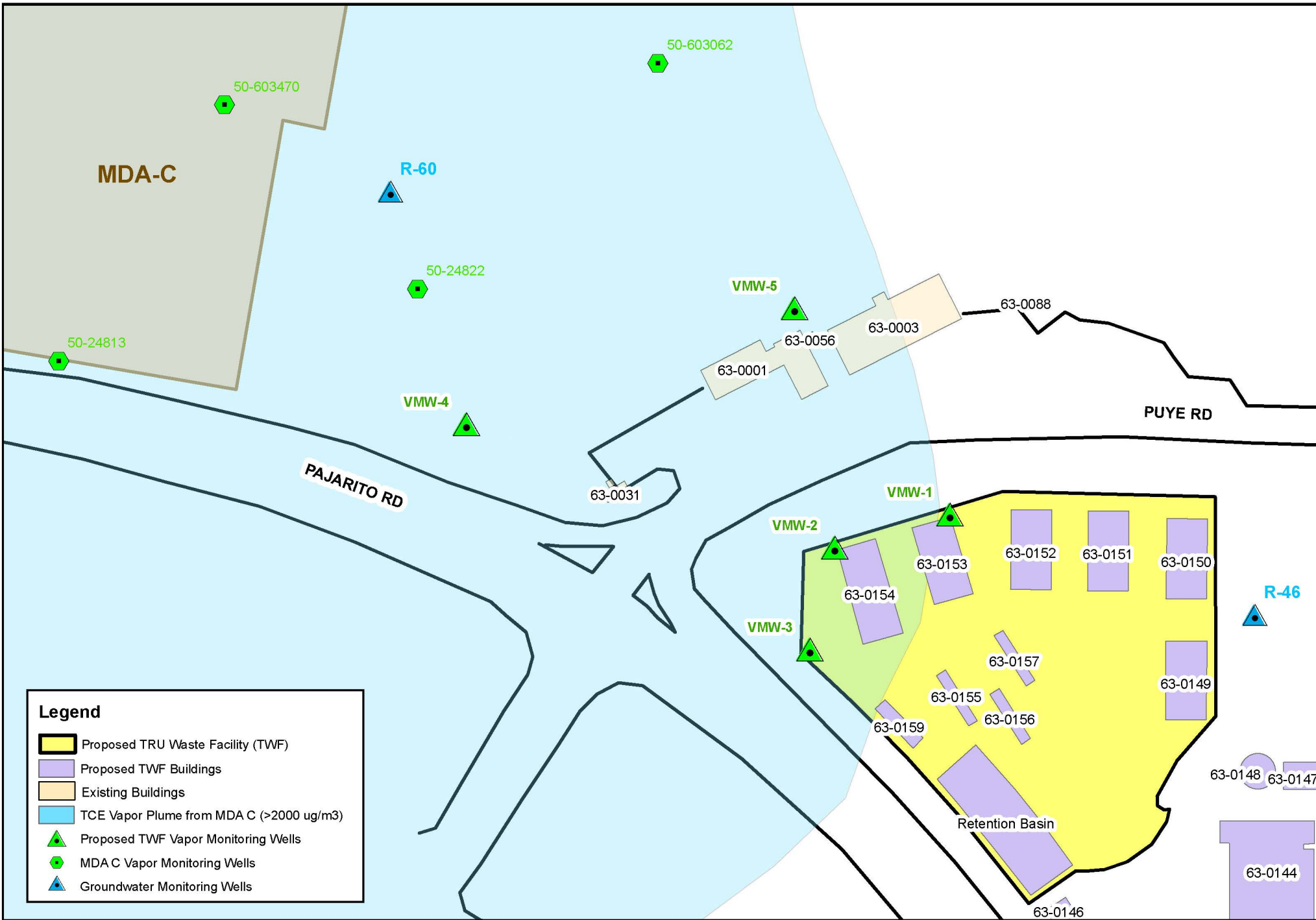
-  Regional Well
-  TWF Security Fence
-  Valley Gutter
-  Vehicle Barrier
-  Existing Buildings/Structures
-  TWF Building and Structures
-  TWF Permitted Unit
-  TWF Site boundary



State Plane Coordinate System
 New Mexico, Central Zone, US Feet
 NAD 1983 Datum

Map Produced by: J. Stockum, Date: 18 June, 2014,
 Map Reference Number: 14-0051

This map was created for RCRA TWF permit. All other uses for this map should be confirmed with LANL ENV-RCRA staff.



Legend

- Proposed TRU Waste Facility (TWF)
- Proposed TWF Buildings
- Existing Buildings
- TCE Vapor Plume from MDA C (>2000 ug/m3)
- Proposed TWF Vapor Monitoring Wells
- MDA C Vapor Monitoring Wells
- Groundwater Monitoring Wells

Figure 56

Transuranic Waste Facility Subsurface Vapor Monitoring Network

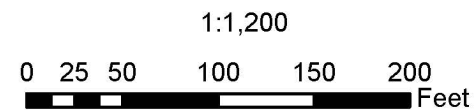


Figure 57 – TA-55, Building 4, Room B13

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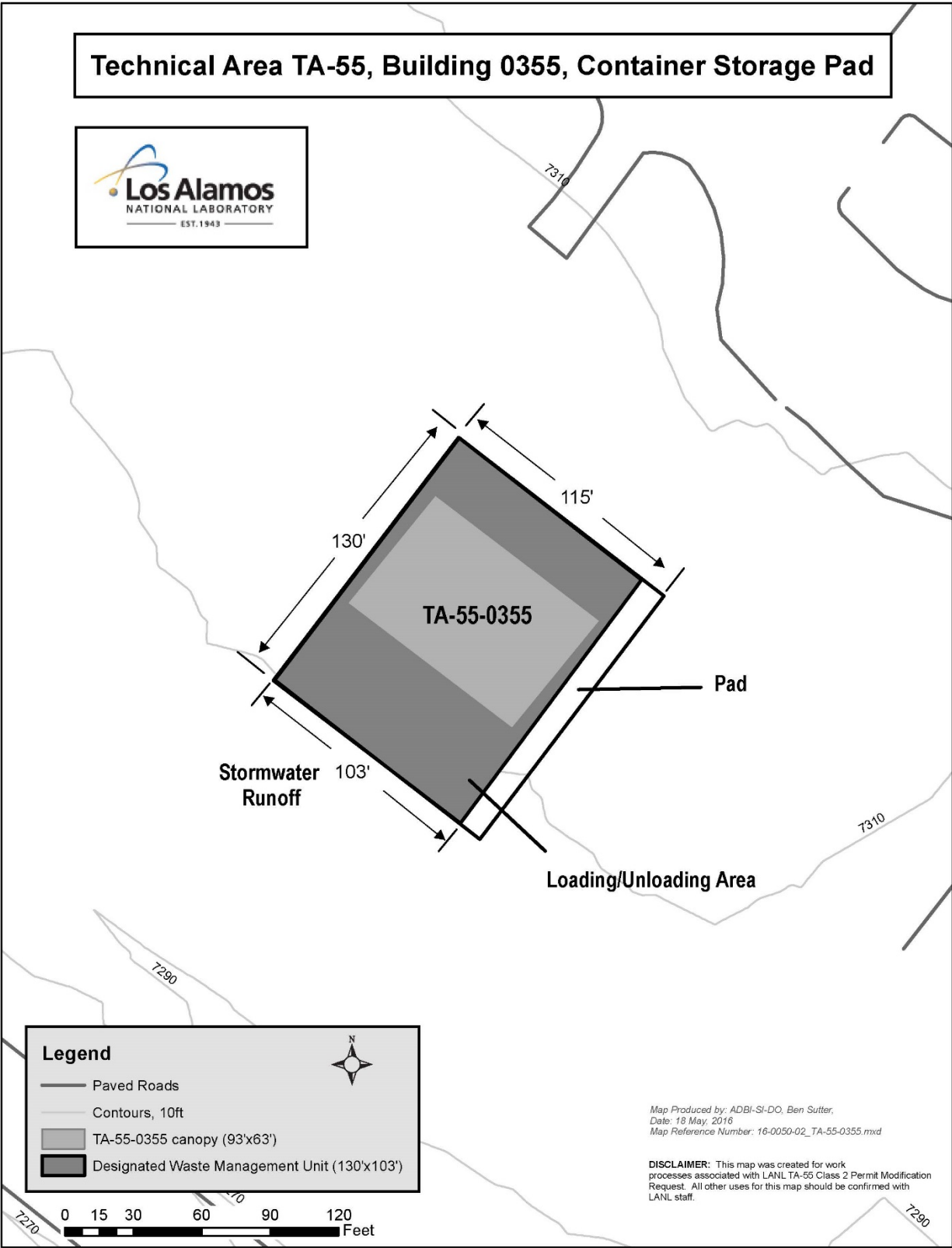
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Figure 58 – TA-55, Building 4, Room G12

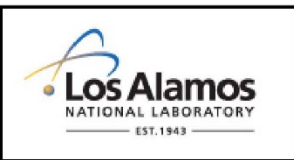
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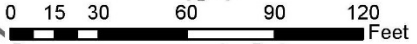


Technical Area TA-55, Building 0355, Container Storage Pad



Legend

- Paved Roads
- Contours, 10ft
- TA-55-0355 canopy (93'x63')
- Designated Waste Management Unit (130'x103')



*Map Produced by: ADBI-SI-DO, Ben Sutter,
 Date: 18 May, 2016
 Map Reference Number: 16-0050-02_TA-55-0355.mxd*

DISCLAIMER: This map was created for work processes associated with LANL TA-55 Class 2 Permit Modification Request. All other uses for this map should be confirmed with LANL staff.

**Figure 59
 Technical Area (TA)-55-355 Pad**

Figure 57 – TA-55, Building 4, Room B13

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Figure 58 – TA-55, Building 4, Room G12

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