ATTACHMENT A

TECHNICAL AREA (TA) - UNIT DESCRIPTIONS

A.4.5 Emergency Equipment

Emergency equipment is located throughout TA-54 and includes internal communications, alarm systems, fire alarms, spill kits, and decontamination equipment. ~~Area L is equipped with an audible alarm system to alert personnel of a fire or the need to evacuate the area. These alarms can be activated by pulling a fire alarm or by pushing the evacuation alarm button.~~ The fire alarm pull boxes are located in Dome 215 and are connected to the Los Alamos Fire Department (LAFD) through the Facility's central alarm system at all times. ~~Evacuation alarms are located adjacent to the fence line crash gates and other locations in Area L (see Attachment D, Table D-1). Alphanumeric pagers, c~~Cellular telephones, and/or two-way radios are also distributed to workers at Area L. Employees can be notified of an emergency situation and appropriate response actions through the use of a text message sent on ~~the emergency alpha-numeric pagers, or~~ cellular telephones, or by two-way radio. The emergency ~~paging~~ notification system can be utilized to alert workers of an emergency situation as well as appropriate response actions. ~~Emergency paging telephones are also available at the facility so that information can be announced throughout the area and personnel can contact onsite and facility emergency personnel at all times.~~ Windsocks are also located at strategic locations to indicate wind direction and strength. Fire control equipment at Area L includes fire extinguishers (*e.g.*, ABC-rated, water, carbon dioxide, dry chemical), a dry-pipe sprinkler system, and dry chemical systems. The fire extinguishers are available at or near most structures within Area L for use by on-site personnel depending on the size and fuel source of a fire. Dome 215 has an automatic dry-pipe sprinkler system that is heat activated in the event of a fire. Storage sheds 68, 69, and 70 have dry chemical systems. Fire hydrants are located near TA-54-37 and the southeast corner of TA-54-62. Personal decontamination equipment at Area L includes emergency eyewash stations and showers. This equipment is for use by personnel in emergencies involving chemical or radiological materials. These stations are generally located near or inside structures where waste is being handled. Emergency shower and eyewash stations are located at or near TA-54-39, TA-54-31, and TA-54-215. Waste characterization documentation and SDS are also available in the event of a chemical exposure. There are several spill kits available at Area L to mitigate small containable spills. These kits typically contain sorbents, neutralizers, PPE, and other equipment essential for containment of small spills. In addition to the spill kits, shovels for cleanup are stored in TA-54-46. Oversized drums and sorbents are also stored at various locations throughout Area L. For larger spills or other unusual hazardous situations, a variety of equipment is available to emergency personnel. This equipment includes forklifts, self-propelled loaders, and other heavy equipment from Area G.

~~Area G is equipped with an audible alarm system to alert personnel of a fire or the need to evacuate the area. The alarms can be activated by pulling a fire alarm or by pushing the evacuation alarm button.~~ Fire alarms ~~and evacuation alarms~~ are in place at strategic locations to alert personnel of emergency conditions. The fire alarms are located throughout Area G and are connected to the LAFD through the Facility's central alarm system at all times. Flame or smoke detection equipment is located within structures TA-54-229, TA-54-230, TA-54-231, and TA-54-232. Security personnel and LAFD are notified upon activation of the flame or smoke detectors. Fire control equipment is located throughout Area G. This equipment includes ABC-rated or BC-rated fire extinguishers, dry-chemical fire suppression systems, and several fire hydrants. Trained personnel can use the fire extinguishers to extinguish small,

non-chemical fires. For larger fires, security personnel and the LAFD are alerted. Personnel working in Area G carry ~~alphanumeric pagers,~~ cellular phones, or two-way radios as the main form of communication. ~~Emergency paging telephones are in place so that information can be announced throughout the area.~~ This equipment ensures that personnel can contact on-site and Facility emergency personnel at all times. Windsocks are at strategic locations to indicate wind direction and strength. PPE and emergency equipment supplies are stored a various locations throughout Area G. There are different types of monitoring equipment located at the Area G CSUs that are used to qualitatively and quantitatively evaluate airborne contaminants. Alarms and strobe lights warn personnel when airborne concentrations exceed preset limits. They are for use by personnel in emergencies involving chemical or radiological materials. Waste characterization documentation and SDS are available in the event of a chemical exposure. First aid equipment can be used to treat injuries until trained medical personnel arrive at the scene. Spill control equipment is maintained at various structures within Area G. Trained personnel use this equipment to mitigate small, containable spills if they know what has been spilled and are sure their actions will not put themselves or others at risk. PPE is also maintained at various structures within Area G and is available for use during routine and non-routine operations to protect personnel from exposure to chemical and radiological contaminants. Warning tapes and barricades are used to post areas and prevent unauthorized entry into restricted areas. Heavy equipment is also available at Area G to move heavy objects.

TA-54-38 at TA-54 West is equipped with separate local alarm systems to alert personnel of fire or the need to evacuate the area. Fire alarm pull stations are located throughout the building and can be activated in the event of an emergency. The alarm system can also be activated by using evacuation alarm buttons located near the entrances to the building. Upon activation of the evacuation alarm system, horns sound to alert personnel of emergency conditions. The building's manual fire alarm pull stations at TA-54 West are connected to the LAFD through the Facility's central alarm system at all times. The evacuation alarm system is a local system that notifies occupants in TA-54-38 of a local emergency. Additionally, a roll-up door exists between the high and low bay areas. The roll-up door is fire rated but does not automatically close upon activation of a fire alarm.

Personnel at TA-54-38 are also equipped with cellular telephones and pagers to provide adequate communication and to summon external emergency assistance, if necessary. Paging telephones are located throughout the building and are used to contact on-site personnel. Paging telephones are also used in the event of an emergency to communicate the nature and location of hazardous conditions to personnel in the area. The alarm system is interrupted when the paging telephone system is activated to allow personnel to hear the announcement. Additionally, an emergency telephone is located outside the main entry area. Personnel working within the building can also use these telephones to summon assistance from local emergency response teams in case of emergency.

Fire control equipment is available for use within TA-54-38 and at the outdoor permitted unit. Portable ABC-rated fire extinguishers are located in the high bay, low bay, and at the outdoor permitted unit. The fire extinguisher located by the east personnel entrance door in the low bay can also be used at the loading dock. Depending on the size of the fire and the fuel source, fire extinguishers can be used by on-site personnel. TA-54-38 is equipped with a pre-

the top of the canyon walls. TA-60-0017 is located approximately 0.8 miles east of the intersection of Diamond and ~~Eniwetok~~ Enewetok- Drives and adjacent to the *Roads and Grounds* area.

Commented [BSE1]: 11/29/2023
LANL notified NMED that the street name had been revised to the correct indigenous spelling.

A.7.1 TA-60 Building 0017

The TA-60-0017 facility was constructed in 1986 to support atomic tests conducted at the Nevada Test Site. It is a unique pre-engineered steel-frame structure consisting of two wings connected by a small control room and stairwell enclosure. The building has concrete footings, slabs, and stem walls with the south portion (permitted storage and treatment area_ being 120 ft. long b 29 ft wide and 23 ft. high. The permitted unit store containers of hazardous and mixed low-level waste in solid and liquid form. Secondary containment is used for storage of liquid wastes. Raised pallets, wheeled drum dollies, and/or other appropriate methods are used to elevate the 55-gallon drums off of the floor. The containers may be stacked two (2) or three (3) high as determined appropriate, and stacked container greater than or equal to 30 gallons of hazardous waste shall be palletized and each layer bound together consistent with Permit Part 3.5.1 (*Storage Configuration and Minimum Aisle Space*).

A.7.2 Security and Access

Security is maintained through LANL-wide physical and administratively controlled barriers along with building restrictions. These barriers prevent unknowing entry and minimize the possibility of unauthorized entry of persons or livestock in the areas. Eight-foot-high chain-link industrial fences surround the entire perimeter of the area. Bilingual (i.e., English and Spanish) warning signs are also posted at the entrances to each portion of the permitted unit within the building and can be seen from any approach to these locations. The legends on the signs indicate "Danger: Hazardous Waste Storage Area" and "Unauthorized Persons Keep Out". The signs are legible from a distance of 25 ft. There is an entry gate through the fence (*see* Figure 52 in Permit Attachment N (*Figures*)). Outside doors to the building include two electric roll-up doors and 5-man doors with locks. Roll-up doors to the building can only be opened from inside the building; opening these doors must be coordinated with facility personnel. When roll-up doors are opened for shipment of material or waste, personnel are present to restrict the entry and exit of unauthorized persons. In addition to the fence and secure doors, canyons surrounding TA 60 provide natural barriers and discourage unauthorized entry.

A.7.3 Emergency Equipment

TA-60-0017 is equipped with a fire alarm system to alter personnel to evacuate the area. The evacuation alarm system may be activated by manual pull stations. The facility is also equipped with a sprinkler system. Personnel use cellular telephones in the event of an emergency.

Fire hydrants (TA-60-0909 and -0910) are installed according to National Fire Protection Association standards and located within required distance of TA-60-0017. Water is supplied to the fire hydrants by a municipal water system through a 6-in. line that in turn is fed from a 12-in. line coming off the main water line; at an adequate volume and pressure (i.e., approximately 1,000 gallons per minute and 120 pounds per square inch static pressure) in accord with NFPA guidelines to supply a water hose in the event of a fire. Spill kits, which contain sorbent pillows, safety glasses, and gloves, are located in facility. Trained personnel may use this equipment to mitigate

ATTACHMENT D

CONTINGENCY PLAN

immediate deployment. Should an EOC be activated during an emergency, additional emergency personnel can be requested by the IC through the EOSC.

2. Assignment as the Incident Response Commander is rotated. The Incident Response Commander can be reached 24 hours a day by contacting the EOSC at 505-667-2400.

3. The Incident Response Commander will respond to emergency incidents involving the release of hazardous or mixed waste to the environment, including spills, fires, and explosions. With input from the appropriate Facility groups, the Incident Response Commander shall initially assess the possible hazards to human health or the environment and, if assuming incident command, shall use whatever response personnel and/or emergency equipment necessary to control and contain the waste. In the event of an emergency, the Incident Response Commander typically becomes the IC with full responsibility for field activities. As described previously, the exception to this is when on-site personnel can adequately address the emergency and maintain incident command internally.

4. The Incident Response Commander responding to an emergency shall have access to various tools to include Emergency Actions Levels with prescribed protective actions and ChemLog with a current chemical inventory of the appropriate building(s) in the area in which the incident is occurring. Access to these tools shall be maintained at the facility and made available to the Incident Response Commander and other emergency response members at the EOC. Additionally, this information may be gained from the facility manager where a waste management unit is located. The various response groups shall obtain specific information, if necessary, relating to the facilities involved (including the layout of all affected buildings; the location of evacuation routes, equipment, and personnel; properties of the materials/wastes managed at the facility; and the hazards associated with these materials/wastes) from other site-specific information.

5. The Permittees shall ensure that the names, addresses, and telephone numbers listed below are the current Primary and Alternate Incident Response Commanders.

Primary:

Aaron Brick
11 Don Bernardo
Santa Fe, NM 87506
(W) 505-667-2400
(C) 505-695-8832
~~Ted Ulibarri~~
~~County Road 88~~
~~Santa Fe, NM 87506~~
~~(W) 505-667-3463~~
~~(C) 505-412-8737~~

Alternates:

~~Aaron Brick~~
~~11 Don Bernardo~~
~~Santa Fe, NM 87506~~
~~(W) 505-667-2400~~
~~(C) 505-695-8824~~

J. Ted Collins (Ted)
3230 Nizhoni~~e~~
Santa Fe, NM 87507
(W) 505-606-9730
(C) 505-695-3004
(H) 505-309-2761

Robert Thornton III
120 Beryl Street
White Rock NM, 87547
(C) 505-690-4745
(H) 505-389-8334

6. To assure timely notifications and immediate response during an emergency, the Permittees shall ensure that the telephone numbers 911 or 505-667-2400 are contacted to obtain the on-call Incident Response Commander.

D.1.2 Hazardous Materials Response

1. Hazardous Materials (HAZMAT) personnel are responsible for the aggressive mitigation of chemical, radiological, hazardous waste, and mixed waste emergencies, including field decontamination of responders and response equipment. At the request of the IC, the HAZMAT personnel may provide limited field decontamination support for victims. HAZMAT personnel are capable of providing a decontamination station at the scene of a hazardous material incident to process people working in a contaminated area and is prepared to perform decontamination of personnel. HAZMAT personnel shall meet the training criteria for emergency response personnel specified in the Code of Federal Regulations, Title 29, §1910.120(q)(6)(iii), (iv), and (v). HAZMAT personnel act as part of the ICS reporting directly to IC, or the Operations Section Chief if the position is staffed.

COMMUNICATION EQUIPMENT

Cellular telephones with text capabilities and/or two-way radios are given to employees working in the area and are the primary communication equipment for Area L. Personnel will carry cellular telephones or two-way radios or will have immediate access to communication equipment through visual or voice contact with another employee.

A fire alarm pull box is located at TA-54-215.

~~Emergency alarm system loud speakers are located throughout the site. Evacuation alarms are located adjacent to the fenceline crash gates at Area L, at the northeast end of TA-54-32, the exterior west end of TA-54-215 and at TA-54-62.~~

Description of General Capabilities:

External and internal Laboratory communications which may be used in emergency situations are listed.
Fire alarm may be activated by any employee in the event of a fire to notify the LAFD and security personnel.
Employees can be notified of an emergency situation and appropriate response actions through the use of a text message sent on cellular telephones with text capabilities.
~~The evacuation alarm is a pulsating sound that can be heard throughout Area L.~~ The fire alarm is a double slow-whoop sound.
The emergency notification system can be utilized to alert workers of an emergency situation as well as appropriate response actions.

DECONTAMINATION EQUIPMENT

Emergency shower and eyewash stations are located immediately east of TA-54-31, at TA-54-215, at TA-54-39, and outside TA-54-39.

Safety Data Sheets (SDSs) are available hard copy or via online database at the facility.

Description of General Capabilities:
Emergency shower and eyewash stations are used by personnel who receive a chemical splash to the skin or eyes. Specific SDSs for the chemical(s) should be obtained prior to working with the chemical to determine if the application of water is indicated for decontamination.

PERSONAL PROTECTIVE EQUIPMENT

Personnel at Area L are required to use appropriate personal protective equipment (PPE) to protect themselves from the hazards found in the workplace under normal conditions. This PPE may include gloves, steel-toed shoes, and safety glasses. Additional PPE may be required during an unusual hazardous situation or during sampling activities.

COMMUNICATION EQUIPMENT

Cellular telephones with text capabilitied and/or two-way radios are given to employees working the in area and are the primary communication equipment for Area G. Personnel will carry cellular telephones, or two-way radios or will have immediate access to communication equipment through visual or voice contact with another employee.

~~Emergency alarm system- loud speakers located throughout the site.~~

~~Evacuation alarm buttons are located at or near TA-54-33, TA-54-48, TA-54-49, TA-54-153, TA-54-224, TA-54-229, TA-54-230, TA-54-231, TA-54-232, TA-54-283, TA-54-375, TA-54-412, Pads 1, 9 and 10 and at various muster stations.~~

Description of General Capabilities:
Cellular telephones~~,~~ and two-way radios, ~~and alarms located throughout Area G can be~~ are used to notify personnel of an emergency. The emergency notification system can also be utilized to alert workers of appropriate response actions. ~~Evacuation alarms have horns mounted on telephone poles throughout Area G that emit an audible alarm that can be heard throughout Area G.~~ Employees can also be notified of an emergency situation and appropriate response action through the use of a text message sent on the emergency cellular telephone texting system, or by two-way radio.

DECONTAMINATION EQUIPMENT

Portable eyewash stations are located at permitted units located at TA-54 Area G during waste management operations involving free liquids.

One permanent, hard-plumbed eyewash station and a safety shower is located in TA-54-33.

Safety Data Sheets (SDSs) are available hard copy or via online database.

Description of General Capabilities:
Emergency shower and eyewash stations are used by personnel who receive a chemical splash to the skin or eyes. Specific SDSs for the chemical(s) being managed should be obtained prior to working with hazardous or mixed waste to determine if the application of water is indicated for decontamination.

PERSONAL PROTECTIVE EQUIPMENT

Personnel at Area G are required to use appropriate personal protective equipment (PPE) to protect themselves from the hazards found in the workplace under normal conditions. This PPE may include gloves, steel-toed shoes, and safety glasses. Additional PPE may be required during an unusual hazardous situation and can be found in the spill kits or at various locations throughout the site.

ATTACHMENT N

FIGURES

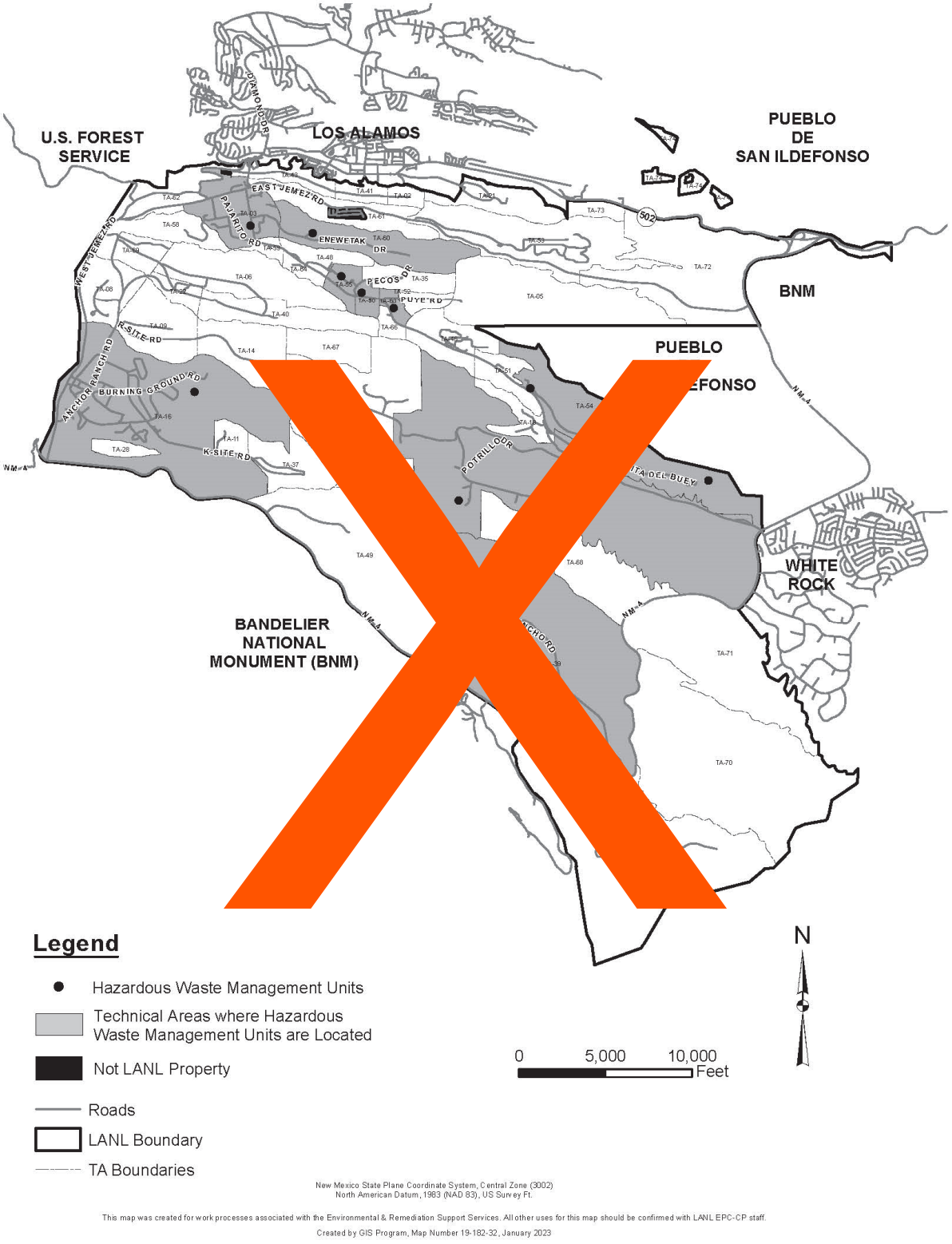

Figure 2: LANL Facility Boundary and Technical Area (TA)-Specific Map

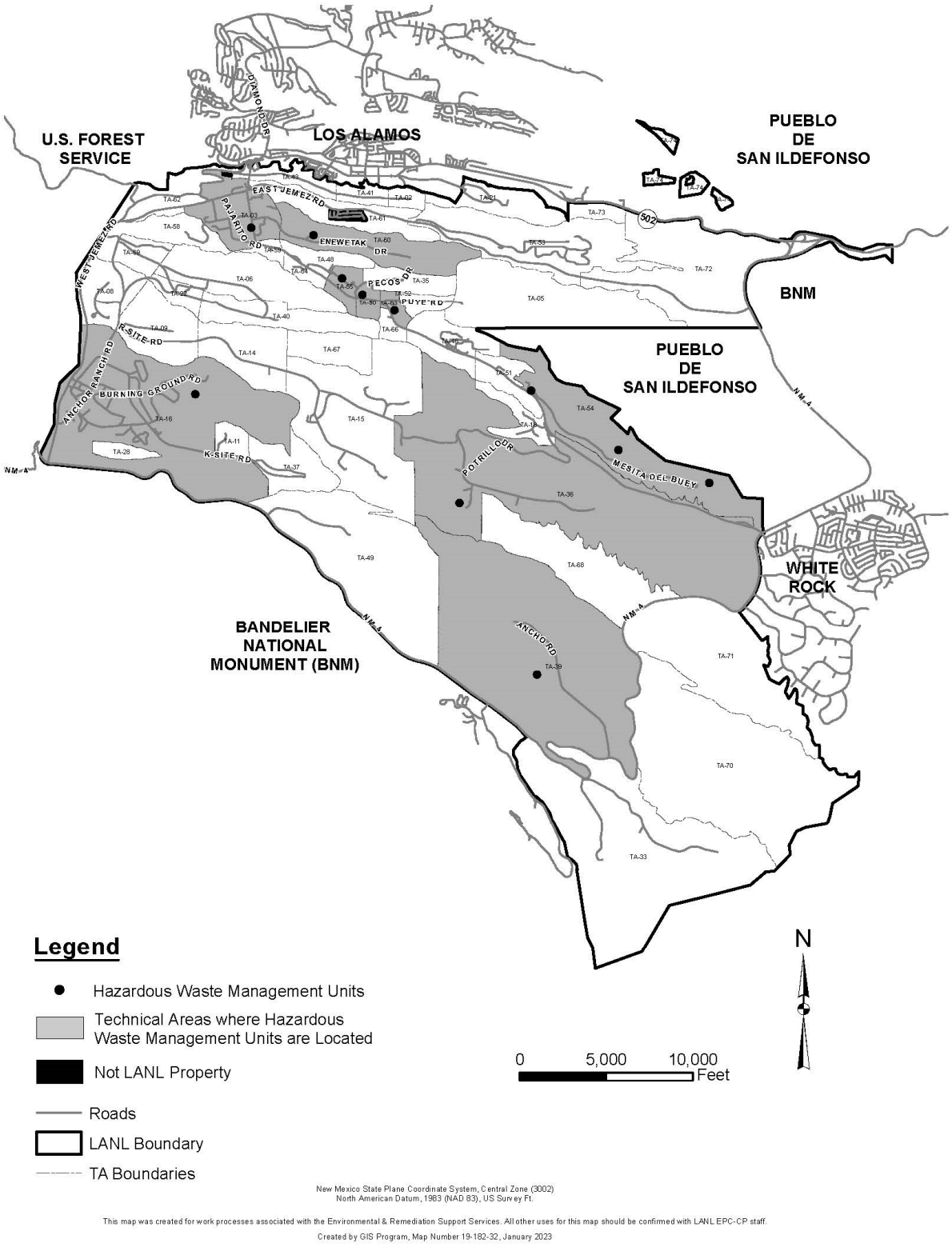

Figure 2: LANL Facility Boundary and Technical Area (TA)-Specific Map

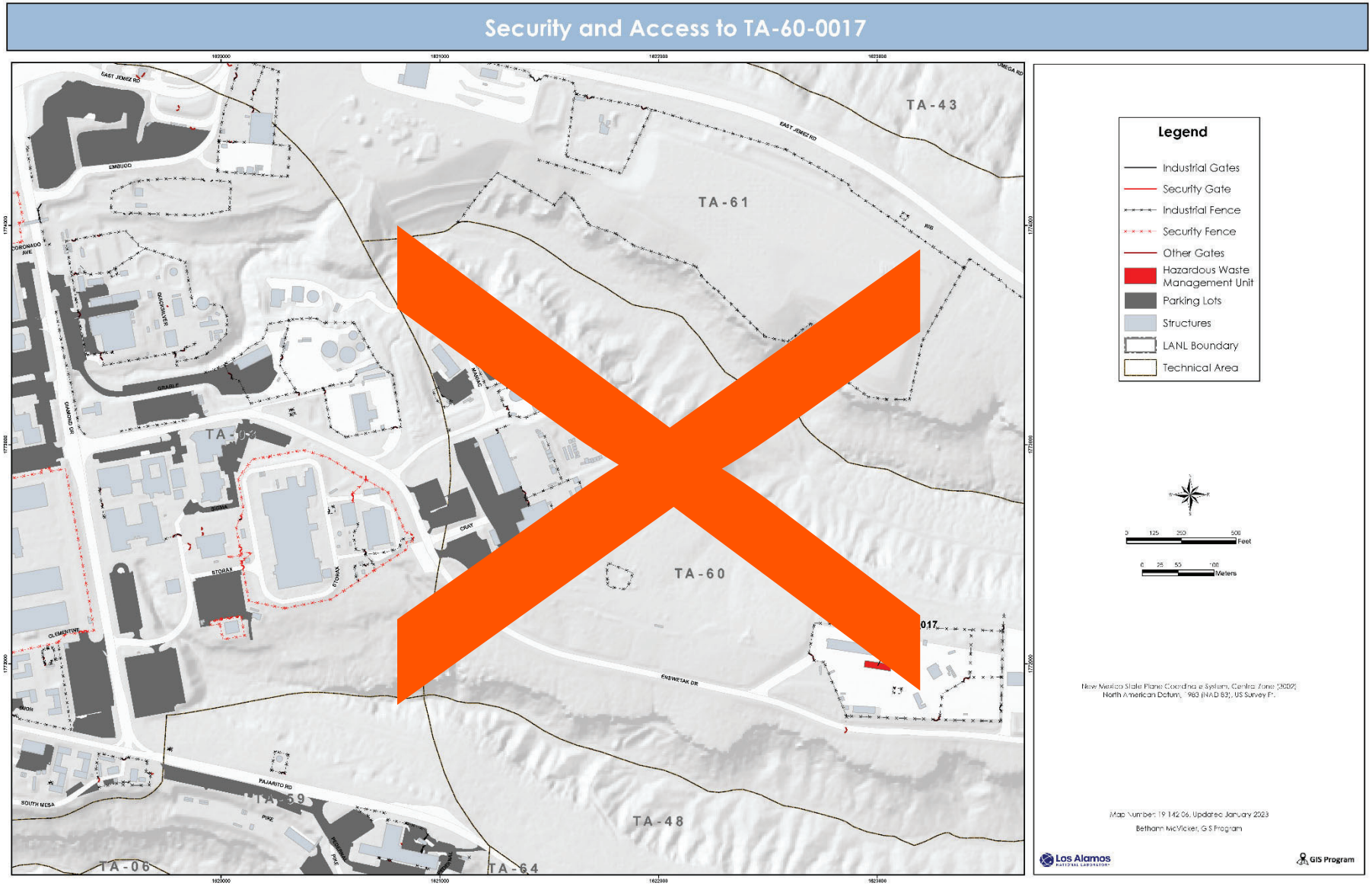

Figure 52: Security and Access to TA-60-0017

Figure 53: TA-60-0017 Site Plan

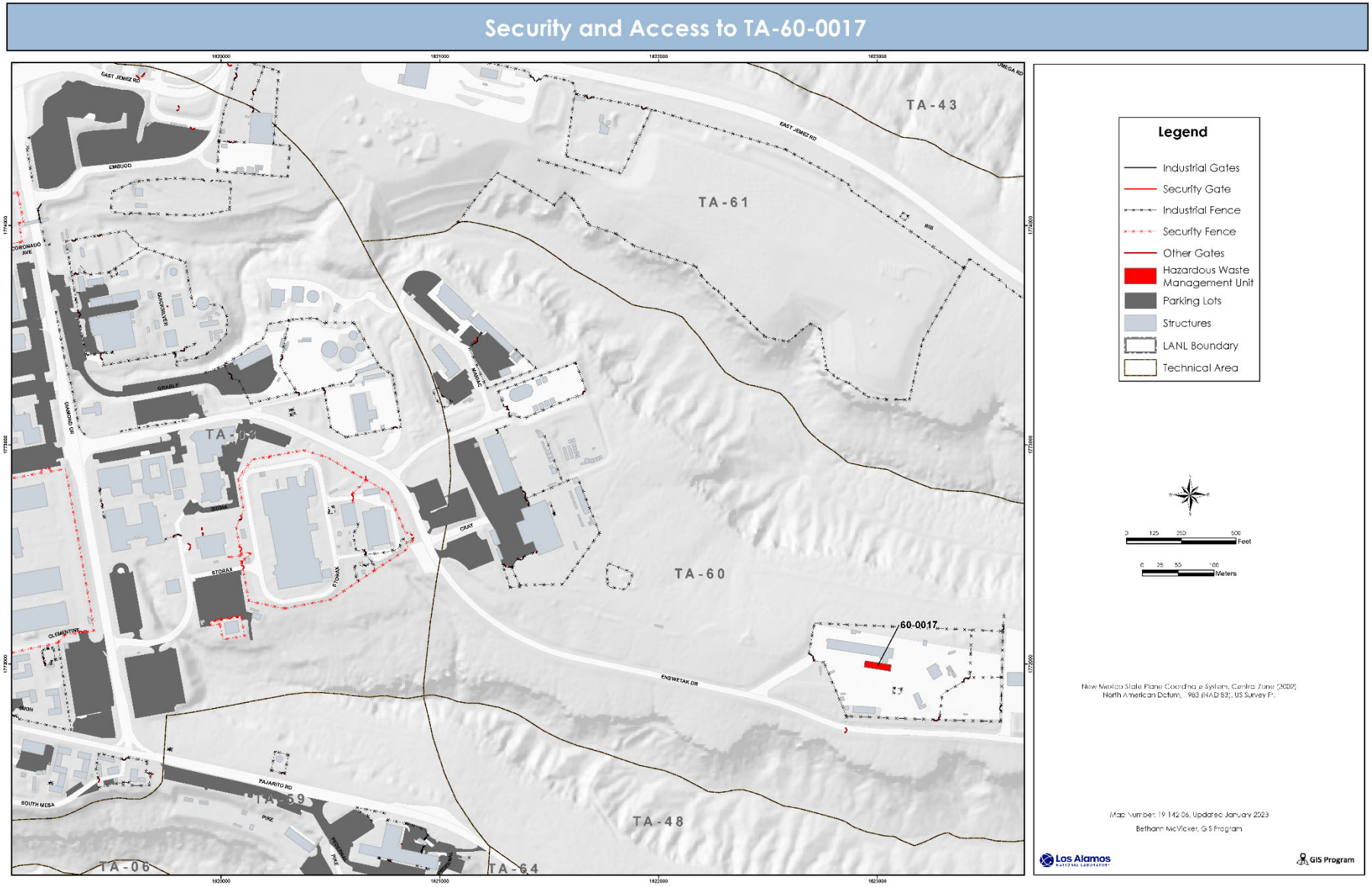

Figure 52: Security and Access to TA-60-0017

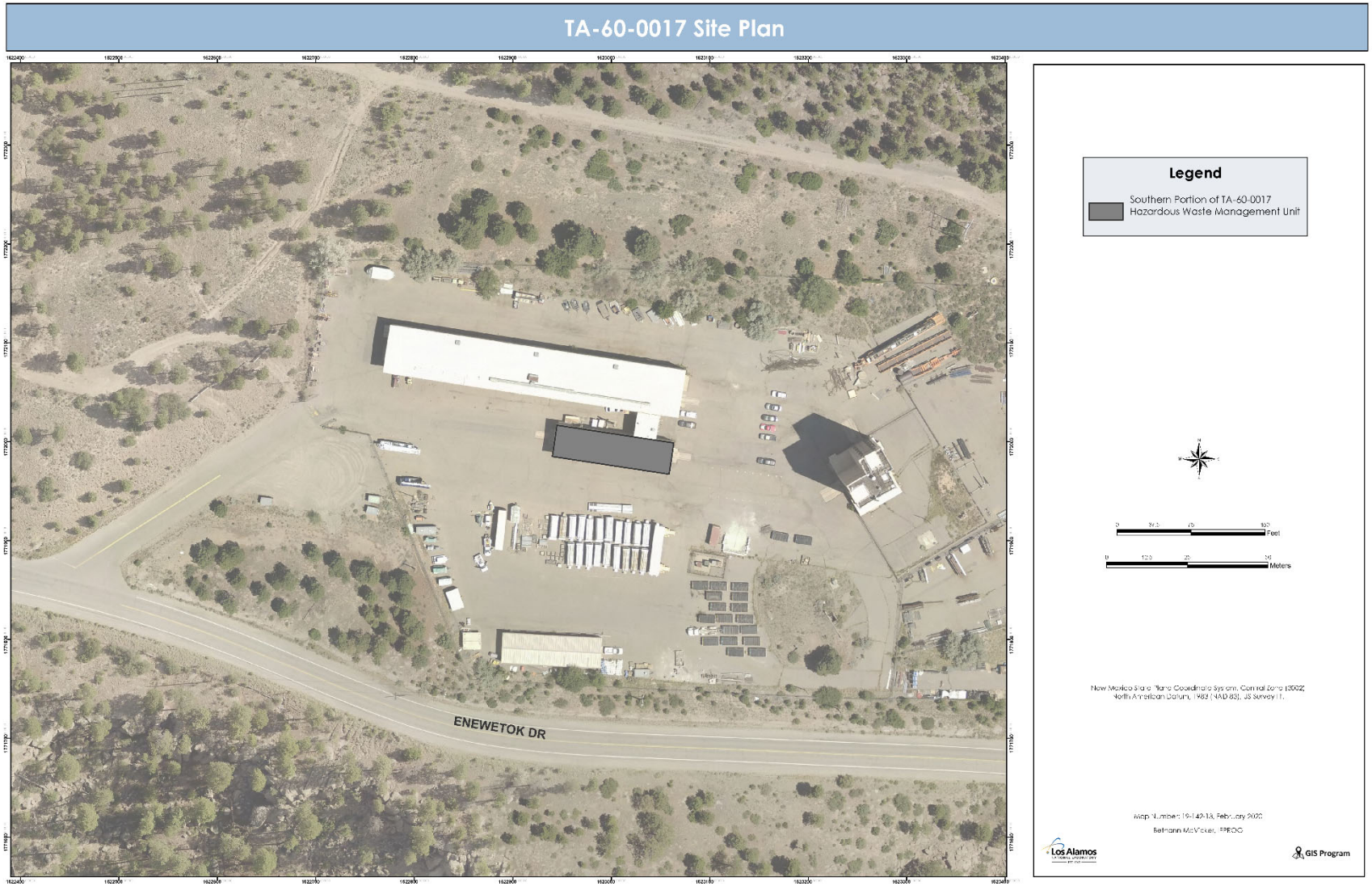

Figure 53: TA-60-0017 Site Plan