U.S. Department of the Interior
Bureau of Land Management
Carson City District Office

CATEGORICAL EXCLUSION
ENVIRONMENTAL REVIEW AND APPROVAL

Project Creator: Matt Simons, Realty Specialist

Lead Office/Field Office: Stillwater Field Office

Case File/Project Number: N-90849

Applicable Categorical Exclusion: H-1790-1, Appendix 4 E(12)

> "Grants of right-of-way wholly within the boundaries of other compatibly developed rights-of-way."

NEPA Number: DOI-BLM-NV-C010-2014-0021-CX

Project Name: TV Hill communications site improvements and access roads.

Project Description: Issuance of a new communications site (comm site) right-of-way (ROW) under the authority of the Federal Land Policy and Management Act of 1976 (FLPMA). Sierra Pacific Power Company (NV Energy) previously held a comm site ROW for the location which expired on January 4, 2012. A comm site ROW would reauthorize the existing site and authorize improvements to the 30 year old facility. Specifically, NV Energy has already constructed a new 80-foot steel tower to replace the old tower, which had a failing concrete foundation, and added a propane-powered backup power generator within the existing fenced area. NV Energy is proposing to construct a new 20-foot by 24-foot cement block building to replace the two existing fiberglass buildings and expand the fenced area on the west side to allow for placement of two, 1,000 gallon propane tanks for the backup generator. The fenced area would be the same size as previously authorized (.067 acres, more-or-less), but would be mirrored 180 degrees to allow the facilities to be constructed on usable ground.

The new ROW would also identify the current access road route and would allow NV Energy to maintain the road, within the existing disturbed area (typically 12 feet), in cooperation with other comm site operators on TV Hill. The access road would be approximately 4 ⅓ miles long (21,088 feet, 5.810 acres, more-or-less). More intensive work, such as widening the road, installing new culverts or other drainage structures, or increasing the size of the fenced area would require written permission to proceed from the BLM before the work is started. Emergency work to repair damaged portions of the road or comm site would be allowed, to the extent needed to put the facility back in service. NV Energy would be required to notify the BLM as soon as practicable.

Applicant Name: Sierra Pacific Power Company

Project Location:
Within the following described parts:

Communications Site:
Mount Diablo Meridian

T. 7 N., R. 29 E.,
sec. 20, NW¼NW¼.

Access Road:
Mount Diablo Meridian

T. 7 N., R. 29 E.,
sec. 19, E½NE¼;
sec. 20, N½NE¼, SW¼NE¼, NW¼, N½SE¼, and SE¼SE¼;
sec. 21, S½SW¼;
sec. 28, NE¼NW¼.

BLM Acres for the Project Area: 5.877 acres, more-or-less.

Land Use Plan Conformance:

The proposed action is in conformance with the LUP, even though it is not specifically provided for, because it is clearly consistent with Administrative Actions listed on page ROW-4 of the Right-of-way Corridor section and would comply with the Standard Operating Procedures listed on pages ROW-4 through ROW-6.

Name of Plan: Carson City Field Office Consolidated Resource Management Plan (2001)

Screening of Extraordinary Circumstances: The following extraordinary circumstances apply to individual actions within categorical exclusions (43 CFR 46.215). The BLM has considered the following criteria: (Specialist review: initial in appropriate box)

Stillwater Field Office

If any question is answered 'yes' an EA or EIS must be prepared.	YES	NO
1. Would the Proposed Action have significant impacts on public health or safety? (Range)		JD
2. Would the Proposed Action have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (EO 11990); floodplains (EO 11988); national monuments; migratory birds (EO 13186); and other ecologically significant or critical areas? (Archaeology, Recreation, Wilderness, Wildlife, Range by allotment, Water Quality)		JAW AS CK
3. Would the Proposed Action have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA 102(2)(E)]? (PEC)		ADR
4. Would the Proposed Action have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks? (PEC)		ADR
5. Would the Proposed Action establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects? (PEC)		ADR
6. Would the Proposed Action have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects? (PEC)		ADR
7. Would the Proposed Action have significant impacts on properties listed, or eligible for listing, on the NRHP as determined by the bureau or office? (Archaeology)		JAW
8. Would the Proposed Action have significant impacts on species listed, or proposed to be listed, on the list of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species? (Wildlife)		CK
9. Would the Proposed Action violate federal law, or a State, local or tribal law or requirement imposed for the protection of the environment? (PEC and Archaeology)		ADR JAW
10. Would the Proposed Action have a disproportionately high and adverse effect on low income or minority populations (EA 12898)? ((PEC)		ADR
11. Would the Proposed Action limit access to and ceremonial use of Indian sacred sites on federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (EO 13007)? (Archaeology)		JAW
12. Would the Proposed Action contribute to the introduction, continued existence, or spread of noxious weeds or non-native species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and EO 13112)? (Range)		JD

SPECIALISTS' REVIEW:

During ID Team review of the above Proposed Action and extraordinary circumstances, the following specialists reviewed this CX:

Planning Environmental Coordinator: Angelica Rose ARR 6/23/14
Public Health and Safety/Noxious Weeds: Jill Devaurs JD 6-23-14
Recreation/Wilderness/VRM/LWC: ~~Dan Westermeyer~~ Matt Simons MS 6/30/14
Wildlife/T&E (BLM Sensitive Species): Chris Kula CK 6/30/14
Archaeology/Paleontology: Jason Wright / Kristin Bowen JW 6/23/14
Livestock Grazing/Wild Horses and Burros: Linda Appel / Chelsy Simerson CS 6/30/14
Minerals: Dave Schroeder / Ken Depaoli DS 6.30.14
Soils/Vegetation: Linda Appel / Chelsy Simerson CS 6/30/14

CONCLUSION: Based upon the review of this Proposed Action, I have determined that the above-described project is a categorical exclusion, in conformance with the LUP, and does not require an EA or EIS. A categorical exclusion is not subject to protest or appeal.

Approved by:

Teresa J. Knutson 8/5/2014
Teresa J. Knutson (date)
Field Manager
Stillwater Field Office

Appendix A
TV Hill Communications Site
Serial No.: N-90849

Proposed Additional Terms and Conditions

1. The Lessee shall contact the Bureau of Land Management, Stillwater Field Office, at 775-885-6000 and obtain approval from the authorized officer before beginning any activity that is a substantial deviation from this lease or that will cause new surface disturbance.

2. The lease is subject to all valid rights existing on the effective date of the lease.

3. During the period of this lease, the United States, acting through the Bureau of Land Management, shall have the right to inspect the land covered by the lease at any time, without advance notice. During such inspections, officials of the Bureau of Land Management may be accompanied by other appropriate federal, state or local officials.

4. The authorized officer or delegated representative shall have the right at any time to inspect the facility, jointly with the Lessee's representative, upon 48 hour notice, to ensure compliance with the terms, conditions and stipulations of the lease herein approved.

   If the Lessee does not appear after a reasonable attempt to schedule a joint inspection, the authorized officer shall have the right to inspect the facility without the Lessee's representative. Failure to provide the authorized officer with reasonable access to the facility is grounds for cancellation of the lease.

5. The Lessee shall furnish a listing of, or other information pertaining to, all occupants of the facility upon request of the authorized officer. All occupant equipment must be attached to a tower or contained within a building specifically approved by this lease. Actions not specifically authorized by this lease, i.e. attaching antennas to the building, attaching equipment cabinets to the outside of approved buildings, installing standalone equipment shelters within the fenced compound, etc., are prohibited without separate authorization from the authorized officer.

6. Lessee must display a permanent identification tag showing the Lessee's address, telephone number and Bureau of Land Management right-of-way identification number (serial no.: N-90849) in an unobstructed location visible from outside the facility fence. If additional users install equipment, i.e. buildings, towers, equipment shelters, generators, etc., within the facility, the Lessee shall display an identification tag, as described above, on all improvements authorized by this lease.

7. The Lessee shall conduct all activities associated with the construction, operation, and termination of the lease within the authorized limits of the lease.

   The Lessee is authorized to use the existing developed road identified in Exhibit C to access the facility to conduct normal operation and maintenance activities, without additional authorization from the authorized officer, provided vehicles and equipment remain within the existing road disturbance and no damage is caused that would lead to additional resource damage. The Lessee shall obtain a written Notice to Proceed from the authorized officer prior to maintaining or repairing roads where such activities would occur outside the existing disturbance.

8. Colors on all exterior surfaces such as buildings, antennas, towers and microwave dishes shall be flat (non-glossy) earth/vegetative tones, i.e. Shadow Gray, Shale Green, or Beetle (Standard Environmental Color Chart CC-001: June 2008), compatible with existing natural site features, and complementary colors. Paint colors should typically be colored darker to allow for fading from sun exposure. Existing structures which do not meet this requirement shall be modified or replaced as a part of ongoing maintenance of communications facility, or when required by the authorized officer. The above referenced Standard Environmental Color Chart may be obtained from the BLM and contains additional information regarding selection of colors for facilities.

   Structures which cannot be painted or require a non-compatible color to operate properly shall be identified as such and alternate means of reducing the visual impact, e.g. constructing a fence to block the view or installing a cover, shall be utilized where practical. All colors or alternative means to reduce visual impacts shall be approved by the BLM prior to use on the right-of-way.

9. Newly installed or upgrades to existing infrastructures shall be designed, installed and constructed to be avian-safe in accordance with the standards prescribed by the authorized officer. In addition, the authorized officer may require the addition of perch or flight deterrent devices within the habitat of special status species if deemed necessary.

10. Prior to any planned disturbance in potential migratory bird nesting habitat from March 1 to July 31 (the approximate nesting season), a field survey for migratory birds, their nests, eggs, or young must be performed to insure compliance with the Migratory Bird Treaty Act (MBTA). The Lessee shall contact the authorized officer's designated representative to determine if the planned disturbance is in potential migratory bird nesting habitat. If any nests, eggs, or young are found either the project should be delayed until the birds have completed their nesting and brood rearing activities, or the project should be re-designed as to not harm the migratory birds, their nests, eggs, or young. A migratory bird is any species of bird except upland game species, feral pigeons, European starlings, and English house sparrows. Potential migratory bird nesting habitat is any habitat that may provide nesting opportunity for any species of migratory bird. Any violation of the MBTA can incur penalties up to $15,000 or 6 months imprisonment, or both per individual offense. Any questions about the Migratory Bird Treaty Act should be referred to the Reno Office of the U.S. Fish and Wildlife Service at (775) 861-6300, or e-mail at "asknevada@fws.gov".

11. In case of change of address, the Lessee shall immediately notify the authorized officer.

12. The Lessee shall maintain the lease in a safe, usable condition, as directed by the authorized officer. Construction sites shall be maintained in a sanitary condition at all times, waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, used petroleum products, ashes, and equipment.

13. The Lessee shall comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted or promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on or within the lease or any of the lease facilities, or used in the construction, operation, maintenance or termination of the lease or any of its facilities. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under CERCLA of 1980, as amended, 42 U.S.C. 9601 et seq., and its regulations. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 2011 et seq. The term does <u>not</u> include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA section 101(14), U.S.C. 9601 (14), nor does the term include natural gas.

14. The Lessee shall protect all survey monuments found within the right-of-way. Survey monuments include, but are not limited to, General Land Office and Bureau of Land Management Cadastral Survey Corners, reference corners, witness points, U.S. Coastal and Geodetic benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. In the event of obliteration or disturbance of any of the above, the Lessee shall immediately report the incident, in writing, to the authorized officer and the respective installing authority if known. Where General Land Office or Bureau of Land Management right-of-way monuments or references are obliterated during operations, the Lessee shall secure the services of a registered land surveyor or a Bureau cadastral surveyor to restore the disturbed monuments and references using surveying procedures found in the Manual of Surveying Instructions for the Survey of the Public Lands in the United States, latest edition. The Lessee shall record such survey in the appropriate county and send a copy to the authorized officer. If the Bureau cadastral surveyors or other Federal surveyors are used to restore the disturbed survey monument, the Lessee shall be responsible for the survey cost.

15. Any cultural (historic or prehistoric site or object) or paleontological resource or Native American human remains, funerary items, sacred objects, or objects of cultural patrimony discovered by the Lessee, or any person working on their behalf, during the course of activities on federal land shall be immediately reported to the authorized officer by telephone, followed by written confirmation. The Lessee shall suspend all operations in the immediate area of such discovery and protect it until an evaluation of the discovery can be made by the authorized officer.

For cultural resources other than Native American human remains, funerary items, sacred objects, or objects of cultural patrimony, this evaluation will determine the significance of the discovery and what mitigation measures are necessary to allow the activities to proceed. The Lessee is responsible for the cost of evaluation and mitigation. Any decision on treatment and/or mitigation will be made by the authorized officer after consulting with the Lessee. Operations may resume only upon written authorization to proceed from the authorized officer.

For Native American human remains, funerary items, sacred objects, or objects of cultural patrimony the Lessee must stop activities in the immediate vicinity of the discovery and protect it from your activities for 30 days or until notified to proceed by the authorized officer. The Lessee is responsible for the cost of consultation, evaluation and mitigation. Any decision on treatment and/or mitigation will be made by the authorized officer after consulting with the Lessee.

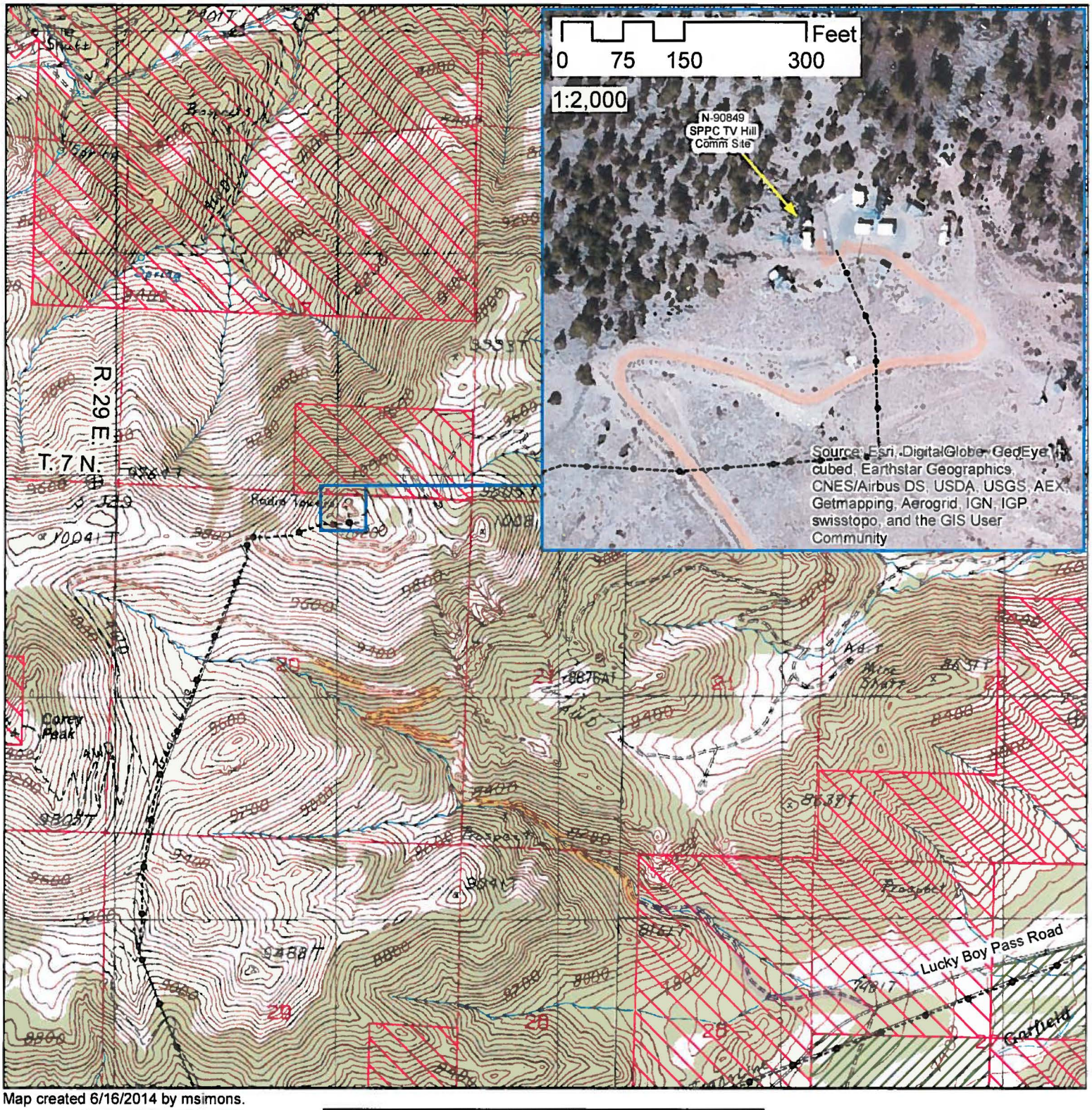
16. The Lessee shall be responsible for continued noxious weed control within the limits of the lease in consultation with the Bureau of Land Management or the appropriate local authority.

17. Future modifications, construction of improvements, expansion of the original structures, construction of additional buildings or major maintenance operations involving disturbance of the land, shall <u>not</u> occur until the plans for such actions have been submitted and approved in writing by the authorized officer. Failure of the Lessee to comply with this requirement may result in a suspension of operations authorized by this lease.

18. Six months prior to termination of the lease, the Lessee shall contact the authorized officer to arrange a joint inspection of the lease. This inspection will be held to agree to an acceptable termination and rehabilitation plan. This plan shall include but is not limited to, removal of facilities, drainage structures, or surface material; recontouring, topsoiling, or seeding. The authorized officer must approve the plan in writing prior to the Lessee's commencement of any termination activities.

19. In the event that the public land underlying the lease encompassed in this lease, or portion thereof, is conveyed out of Federal ownership and administration of the lease or the land underlying the lease is not being reserved to the United States in the patent/deed and/or the lease is not within a right-of-way corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the lease, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations in Title 43 CFR parts 2800 and 2880, as well as any rights to have the Lessee apply to the Bureau of Land Management for amendments, modifications, or assignments and for the Bureau of Land Management to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the lease, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and

ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the right-of-way shall be considered a civil matter between the patentee/grantee and the Lessee.

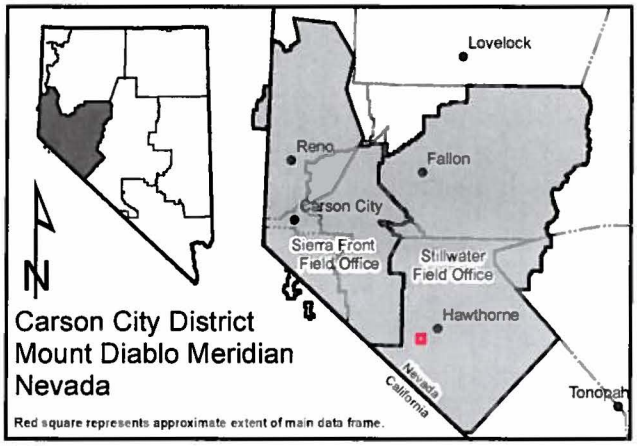


Map created 6/16/2014 by msimons.

No warranty is made by the BLM as to the accuracy, reliability, or completeness of these data for individual or aggregate use.

8 inch by 8 inch data frame represents:
1:24,000

0 1,000 2,000 4,000 Feet



Electrical distribution line

N-90849 - Comm Site Access Road

Public land

Private land

Surface Mgmt. Status

Forest Service

Private

All lands administered by the BLM unless otherwise indicated.

3. PROJECT DESCRIPTION

3.0 LOCATION

The TV Hill Telecommunication Site is located approximately 10 miles southwest of Hawthorne, Nevada in Mineral County, approximately 1.15 mile northeast of Corey Peak and approximately 88 miles northwest of Tonopah, Nevada. The elevation of the site is 10296 feet above sea level. See Attachment A for Project Site Maps.

3.0.0 Site Description

The existing site is located on the peak of the existing TV Hill Micro-Wave Site (reference N-33877). The brush has already been removed from the site and surrounding area and will not require the disturbance of any additional land. See Attachment A for Project Site Maps.

TV Hill

The original TV Hill site consisted of one obsolete communications tower and two fiberglass shelters with an outdoor generator for backup power. The TV Hill site as it exists today is in the process of replacing the original tower, and therefore currently contains both a replacement communications tower and the original, failing tower. There is also an outdoor pad-mounted 1000 gallon LP tank. The existing site is 66.34 feet x 55 feet x 50 feet x 50 feet and already accommodates all existing and proposed constructed facilities. The north lot line is the 66.34 feet length and approximately half that length is unusable due the steepness of the slope. The proposed TV Hill site consists of two construction phases. The first construction phase occurred within the existing fenced area and existing site right-of-way. See Attachment B for Phase 1 site layout drawings. The second construction phase would require minor right-of-way realignment with final site configuration allowing the removal of the failing communications tower and addition of one CMU block building with an outdoor generator for backup power. An additional outdoor pad-mounted 1000 gallon LP tank is planned for a total of two pad-mounted 1000 gallon LP tanks. The site will cover approximately the same area to accommodate all proposed facilities; however, NVE is proposing the dimensions boundaries on the north and south lot lines be changed to exchange workable area for unworkable, sloped area. See Attachment C and D for Phase 2 proposed site layout. This change would allow site configuration to accommodate a second pad mounted 1000 gallon LP tank for extended emergency operation. This communications site serves Hawthorne, Babbitt, Walker Lake area, Tonopah, Goldfield, Round Mountain, and Southwestern Nevada. In addition, the 220 VAC line (buried) is being proposed to serve the new TV Hill site. The trench dimensions for the LP line are 75 feet long by 3 feet wide by 4 to 6 feet in depth and within the existing right-of-way. See Attachment C and D for Phase 2 site layout drawings and photographs. There is an existing power transformer from the existing distribution line within a few feet (reference NVE 000336 81-5342).

3.1 PROJECT COMPONENTS

3.1.0 Communications Tower

Within the existing fenced area, a replacement tower was required to be constructed after studies determined that the original tower had a failing foundation and exposed NV Energy's communications backbone to significant risk. The replacement tower was constructed within the

existing right-of-way during Phase 1. The existing L.P. tank was relocated within the existing right-of-way to accomplish this task. An 80 foot tall tower was needed to accommodate system capabilities. The tower has a base footprint of approximately 13.5-15 foot square. The original tower will be removed during Phase 2. See Attachment B for Phase 1 site layout.

3.1.1 Communications Buildings

Two prefabricated fiberglass shelters are currently in place on the existing site to store the equipment needed for transmitting signals. In Phase 2, these shelters will be replaced with a CMU block building and will be placed on a concrete pad. This building will be constructed on site by hauling the materials to the site on a truck. The building measures 20 feet by 24 feet and will be placed next to the replacement tower. The original tower will be removed to accommodate the building construction. See Photographs of the existing facilities in Attachment D.

3.1.2 Generator and L.P. Tank

To ensure reliable energy grid performance, the communication equipment on this site needs to be fully operational at all times. To maintain operation during a power outage, a standby generator is used. One of the existing fiberglass shelters contains DC batteries to power the site for 7 days after the L.P. fuel supply is exhausted. A 55 KVA Generator is currently installed within this site to keep the communication devises online in the event of a power outage. This generator runs on liquefied propane and needs to have enough fuel to operate for a minimum of 72 hours. 2000 gallons of L.P. fuel is required to meet this need. To accommodate the replacement of the tower and to conform to the National Fire Protection Code (fuel tank 10' from any electrical source) the existing L.P. tank was relocated to the SW corner of the existing site during Phase 1. A retaining wall constructed and imported fill was constructed in this section of the site and brought into the level of the site for concrete pad and tank placement. New LP supply lines were also installed. During Phase 2, after obtaining the realignment of the north and south lot lines, and second 1000 gallon L.P. tank will be installed. The final site preparation for the LP tanks will be step tiered to blend in with the slope of the top of the peak.

3.1.3 Temporary Shelter Location

The temporary shelter location requested is adjacent to the new tower at the northeast corner of the ROW. The temporary shelter is 10' x 12' x 9' and tan in color. A two year 15' x 15' temporary ROW is requested. This would not interfere with other site users accessing their building or LP tanks.

3.2 LAND/ROW REQUIREMENTS

NVE currently holds an easement from the BLM N-33877 for the existing microwave relay site. The lease documents were submitted in October 2011.

3.2.0 Permanent (Operation)

After project maintenance is completed, NVE will operate the permanent ROW for the TV Hill Communication Site in order to conduct operations and maintenance of the site.

3.3 CONSTRUCTION ACTIVITIES

3.3.0 Methods

Each project phase will follow these similar steps. Construction of the TV Hill Communication Site structures will be conducted as follows:

Step 1 – Mobilization and Staging

A crew of up to 20 workers will mobilize to the site approximately 1 to 2 weeks prior to the start of work. During this time, they will transport equipment and construction materials into a staging area adjacent to the existing site on areas which have already been disturbed.

Step 2 – Preconstruction Surveying and Staking

Prior to commencing work within the ROW, the boundaries of the ROW area will be surveyed and staked. This step will include the marking of the existing site, access roads, and new communications site boundaries.

Step 3 – Access Road Maintenance

In order to access the communication site, approximately ten miles of existing dirt access road will be maintained to facilitate the access for cement trucks, flatbed trucks, and other large equipment needed to construct the site. The existing access road to be maintained (with no new ground disturbance) is approximately 20 feet wide with a 10 foot running surface. See Attachment A for Project Site Maps and Attachment D for photographs of access road.

Step 4 – ROW Preparation

In order to stage equipment and conduct work, the tower, LP tank, and building structure will require a relatively flat surface, therefore, the areas may be graded and soil (gravel) may be imported to achieve the necessary elevation. The final site preparation for the LP tanks will be step tiered to blend in with the slope of the top of the peak. It is not anticipated that vegetation removal will be required to complete grading work because the existing site is already disturbed. However, in the event it becomes necessary, vegetation removal will be minimized to the maximum extent possible.

Step 5 –Tower Construction

Completed in Phase 1- After excavation has been conducted, forms will be put into place for concrete footings and rock anchors to be poured. Once the footings have cured, the tower will begin construction. Boom trucks and a crane will be used to assemble the prefabricated tower. Once antenna systems have been relocated, the old tower will be removed.

Step 6 – Building Construction

The building material used for this communications site are Concrete Masonry Units (CMU)(open-face split block) and will be transported in via flatbed truck. A concrete pad will be poured slightly larger than the building dimensions. The building will be constructed using rebar dowels and open spaces are filled with grout. During construction the building will be properly anchored to the concrete pads and grounded. The color of the building will be selected to match

BLM color (Shadow Gray) per the BLM selection guide (Standard Environmental Colors Chart CC-001: June 2008).

Step 7 – Site Cleanup and Demobilization

Surplus materials, equipment, and construction debris will be removed at the completion of construction activities. All man-made construction debris will be removed and disposed of appropriately at permitted landfill sites. In the event vegetation removal becomes necessary, the cleared vegetation will either be shredded and distributed over the ROW as mulch and erosion control or disposed of off-site, depending on landowner and agency agreements. Rocks removed during access road grading and foundation excavation will be redistributed over the ROW to match adjacent site conditions.

Step 8 – Restoration and Reclamation

No vegetation removal is expected but if it becomes necessary, NV Energy will seed disturbed areas with a BLM approved seed mix. NVE will attempt to close or restrict vehicle access to areas that have been seeded until the reclamation success criteria have been achieved. Personnel

The construction workforce will consist of a total of approximately 10 personnel. Project construction will also require additional support personnel, including construction inspectors, surveyors, project managers, and environmental inspectors.

3.3.1 Equipment

Table 1: Typical Construction Equipment presents a list of the typical equipment and their construction uses for a project of this nature.

Table 1: Typical Construction Equipment

Equipment	Use
¾-ton and 1-ton pickup trucks	Transport construction personnel
2-ton flatbed trucks; flatbed boom truck	Haul and unload materials
Rigging truck	Haul tools and equipment
Mechanic truck	Service and repair equipment
Aerial bucket trucks	Access poles, string conductor, and other uses
Shop vans	Store tools
Bulldozer	Grade access roads and pole sites, reclamation
Road grader	Construct, maintain, and upgrade roads
Compactor	Construct access roads
Truck-mounted digger or backhoe	Excavate
Small mobile cranes (12 tons)	Load and unload materials
Large mobile cranes (75 tons)	Erect structures
Transport	Haul poles and equipment
Drill rig with augers	Excavate and install fences
Semi tractor-trailers	Haul structures and equipment
Air tampers	Compact soil around structure foundations
Concrete truck	Pour concrete
Dump truck	Haul excavated materials/import backfill
Fuel and equipment fluid truck	Refuel and maintain vehicles
Water truck	Suppress dust and fire
Winch truck	Install and pull sock line and conductors into position

3.3.2 Schedule

Construction of Phase 1 was undertaken in the summer of 2012 and took approximately 10 to 12 weeks to complete. Construction of Phase 2 is anticipated to commence in the summer of 2013 and take approximately 12 to 16 weeks to complete. Construction of phase 2 will begin only after all required permits and authorizations have been secured.

3.4 OPERATIONS AND MAINTENANCE ACTIVITIES

3.4.0 Methods

NVE plans to keep the communication site operational during construction. The construction activities should be completed and in-service by October 2013, after which operations and maintenance personnel will conduct annual inspections of the site. Annual inspections will be conducted using sport utility vehicles and/or line trucks. The inspections will involve a visual review of the structures on the site as well as testing of internal equipment.

In addition to the annual inspections, NVE operations and maintenance personnel will conduct structure-climbing inspections every 10 years. These inspections will include accessing the communication structure where NVE personnel will climb the structure to inspect the integrity and condition of the hardware.

NVE personnel will also require access to the communication site in the event of an emergency situation or if maintenance of a tower or building is necessary. Under these circumstances, the communication site will be accessed by line trucks using existing dirt access roads, snow cat,

and/or helicopter. Any required maintenance to the existing access roads will be limited to the existing disturbed ground area unless prior authorization is obtained from the BLM.

3.5 REQUIRED PERMITS AND AUTHORIZATIONS

The permits and authorizations that must be obtained by NVE from all relevant federal, state, and local agencies prior to construction and operation of the project are summarized in Table 2: Required Permits and Authorizations.

4. ENVIRONMENTAL COMPLIANCE

4.0 ENVIRONMENTAL COMPLIANCE MANAGEMENT

4.0.0 Approaches and Strategies

All construction, operation, and maintenance activities conducted for the TV Hill Communication Site will be conducted in compliance with all relevant federal, state, and local regulations and permits, and will also be conducted in accordance with the requirements and conditions specified in the BLM permit. In addition to the requirements stipulated in the project permits, NVE has committed to implementing several environmental protection measures that will further facilitate avoidance and/or minimization of potential adverse environmental impacts. NVE is a voting member of the Mt. Brock Users Group and is fully supportive of setting high standards for Communications facilities across the United States. NVE is committed to high standards for all its' microwave communications sites.

Table 2: Required Permits and Authorizations

Agency	Permit/Authorization
BLM	ROW Grant
	National Environmental Policy Act Compliance

4.1 ENVIRONMENTAL PROTECTION MEASURES

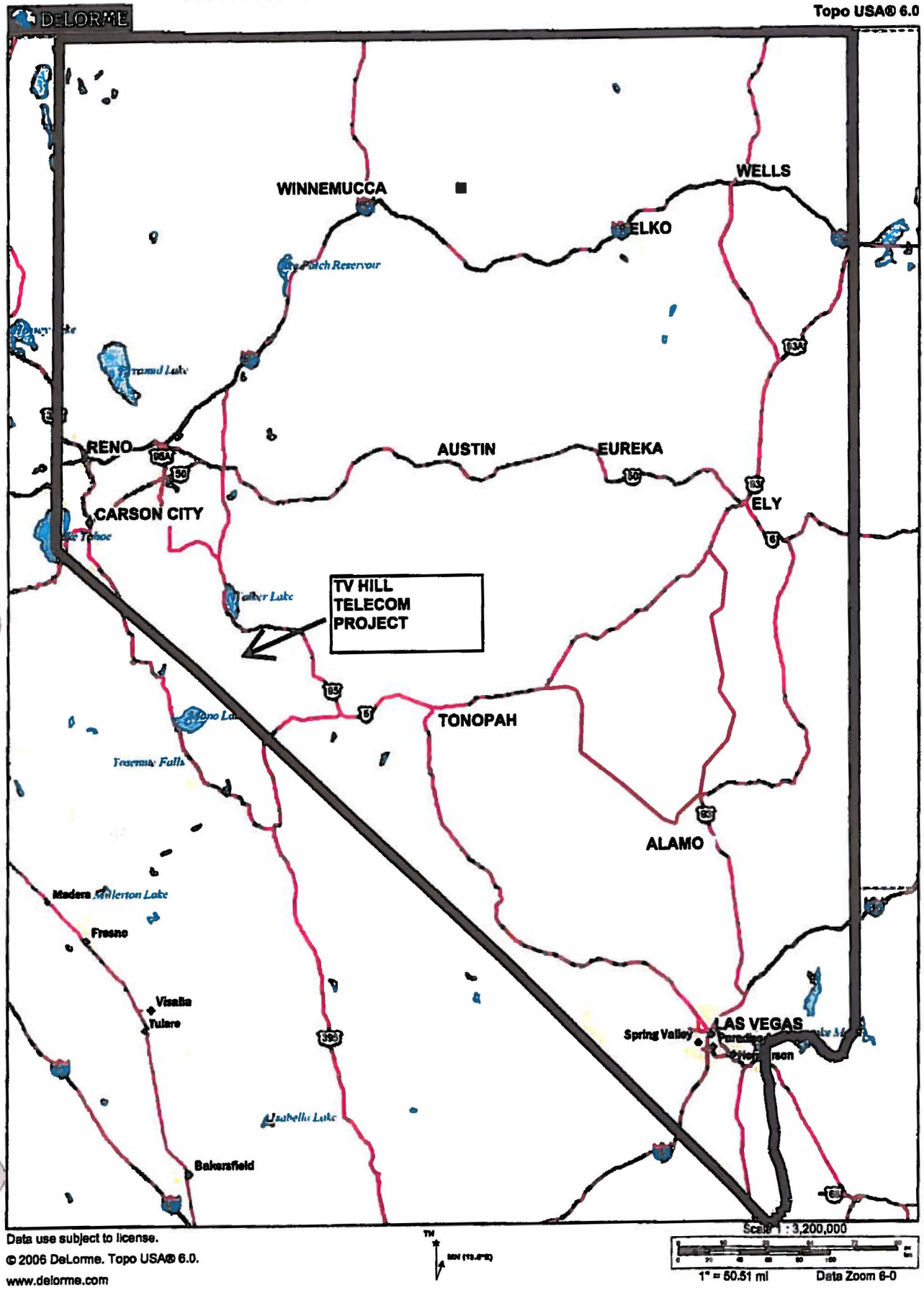
In addition to the requirements and conditions stated in the project permits, NVE has committed to implementing the environmental protection measures discussed below. These measures have been divided into the following categories: General, Soil Disturbance, Noxious Weeds, Vegetation, Water Features, Wildlife and Sensitive Species, Cultural and Paleontological Resources, Hazardous Materials and Waste, Air Quality, and Fire Prevention and Response.

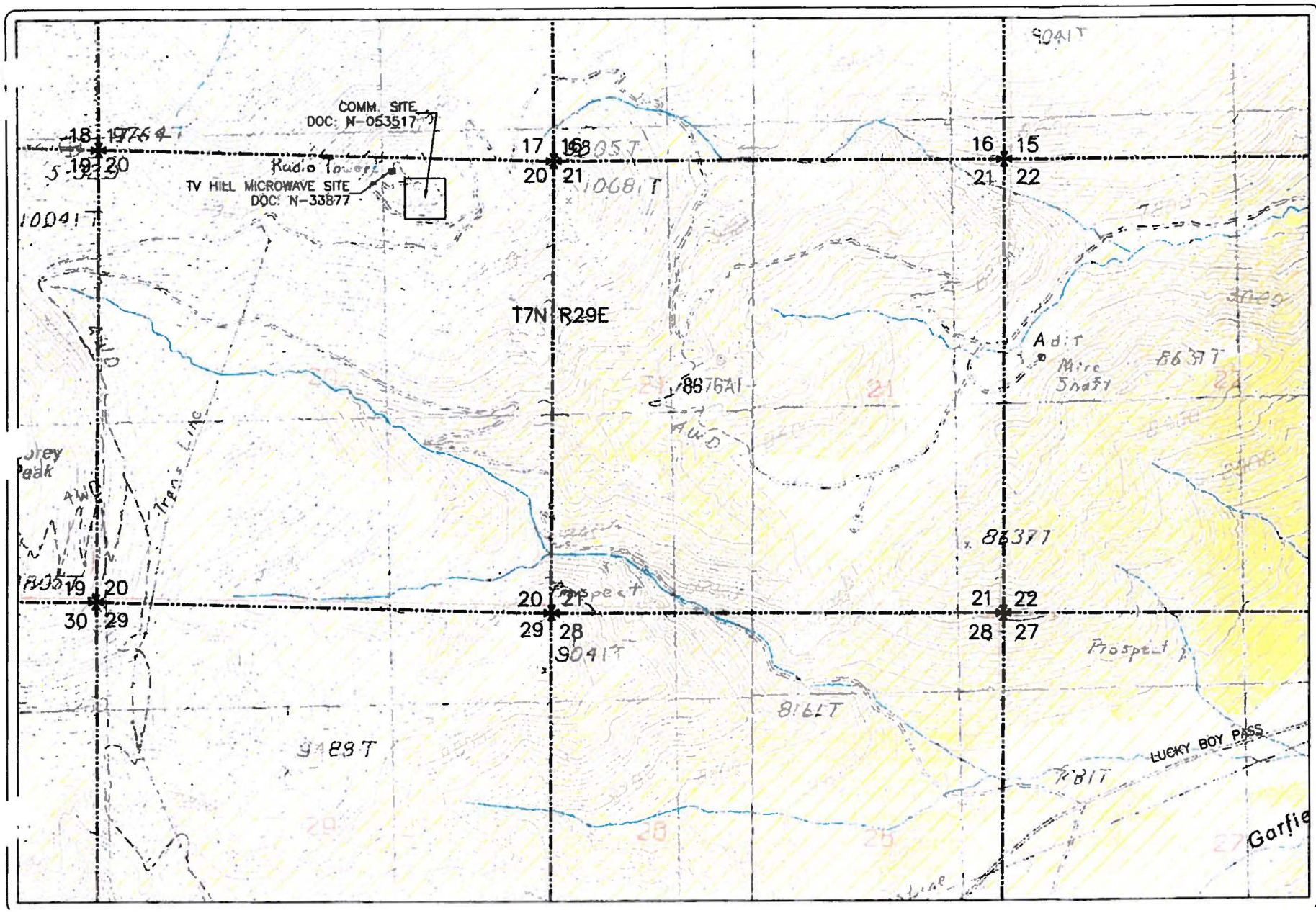
4.1.0 General Measures

1. The limits of the ROW will be marked with staking and/or flagging. All environmentally sensitive areas will be fenced for avoidance.

2. Prior to construction, all construction personnel will be instructed on the protection of sensitive biological, cultural, and paleontological resources that have the potential to occur on site.

ATTACH A - PROJECT VICINITY/LOCATION MAP





SURVEYOR: JJ
PROJECT NUMBER: COF09DPC
PROJECTION: NSPW USFT 83

SCALE:1"=1,000'

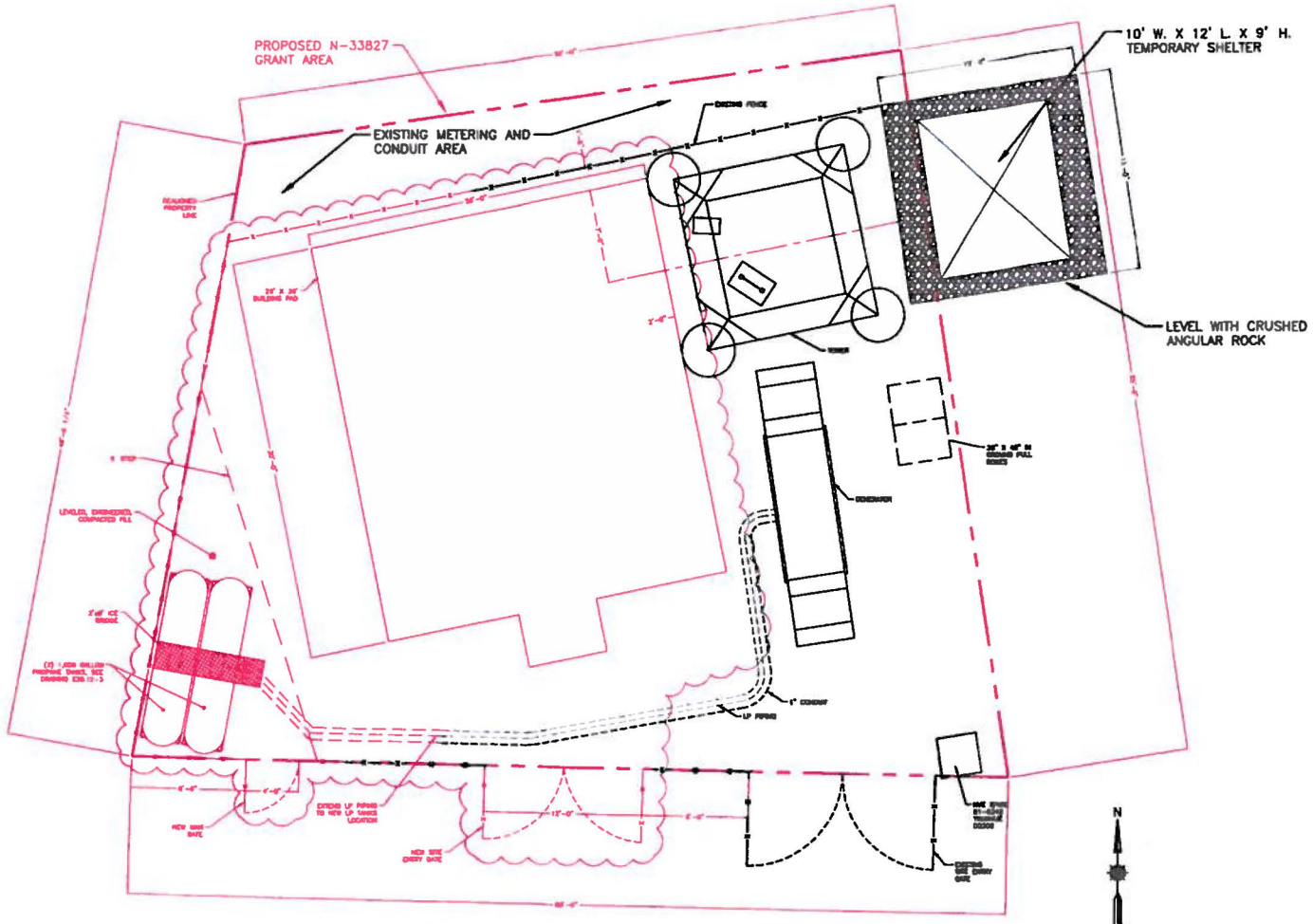
BLM

NVEnergy
6100 NEIL RD.
RENO, NV 89511
775-834-4011
NEVADA

TV HILL LAND STATUS MAP
SEC. 20,21,28,27 T. 7N R. 29E

MINERAL COUNTY

1 OF 1



1 SITE PLAN - ADDITION WITH BUILDING PAD

Scale 1/4" = 1'-0" (32 x 34), 1/8" = 1'-0" (11 x 17)

LEGEND

- BLACK = EXISTING ITEMS TO REMAIN
- BLACK WITH RED CLOUD = EXISTING ITEMS TO BE REVISED
- RED WITH RED CLOUD = NEW ITEMS TO BE ADDED
- GREEN CLOUD WITH HATCHING = EXISTING ITEMS TO BE REMOVED

NOT FOR CONSTRUCTION

REV No	WORK ORDER	DESCRIPTION	DATE	BY	CHKD	APPD	DRAWN	4-JUN-13	MTC
4	COFD9DPCMM	TV HILL MW SITE RENOVATION	13-FEB-13	MTC	JKS	JKS	CHECKED	4-JUN-13	JKS
3	COFD9DPCMM	SMCP TV HILL - MW RENOVATION - AS-BUILT	31-JAN-13	SS	JKS	JKS	APP'D	4-JUN-13	JKS
2	COFD9DPCMM	SMCP TV HILL - TV HILL MW RENOVATION	22-OCT-12	SS	JKS	JKS			
1	DOC.IRRCCMM	SMCP TV HILL	5-MAY-12	PMH	JKS	JKS			
0	------	ORIGINAL ISSUE	24-DEC-09	JJD	JKS	HB			

REVISIONS

ENG. RECORD

NVEnergy

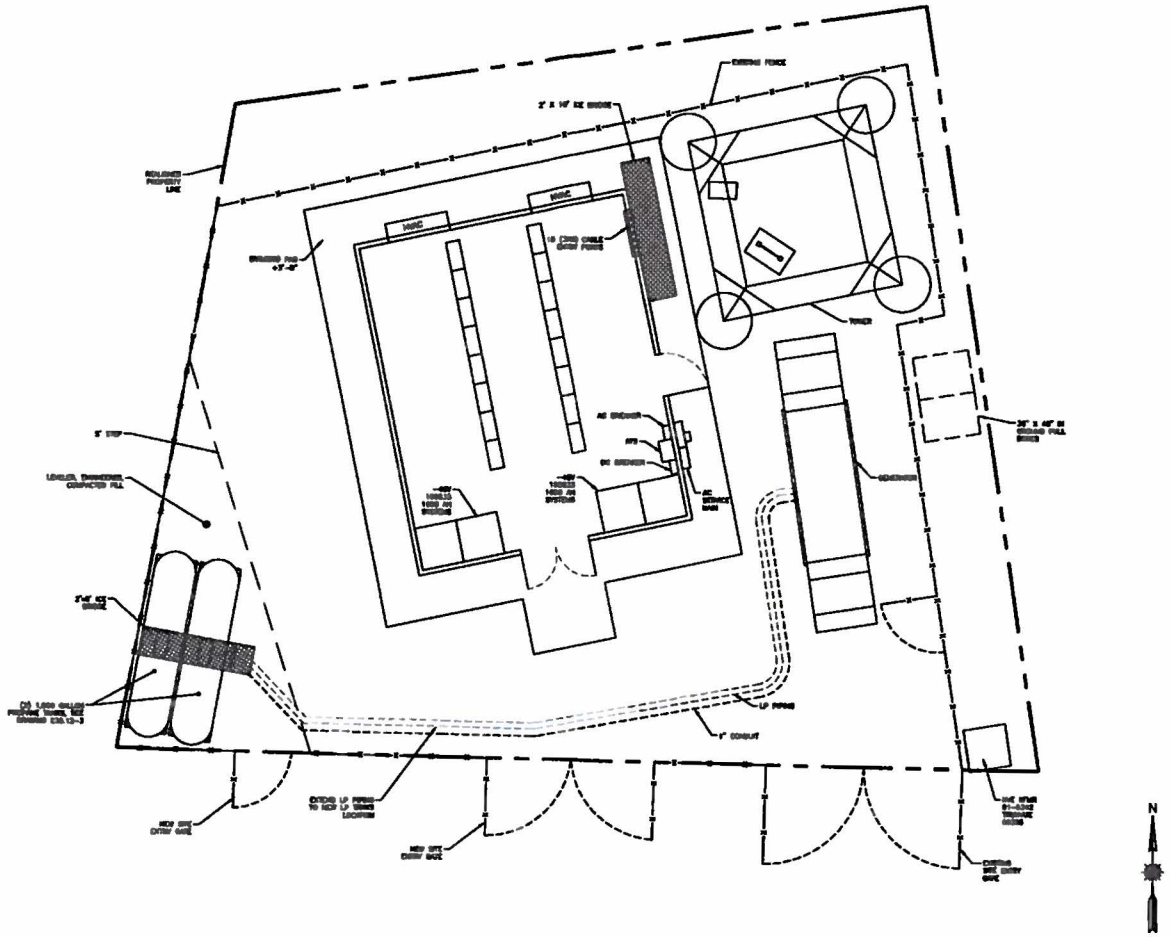
TV HILL MICROWAVE
SITE RENOVATION POD

INTERIM SITE PLAN

DWG. No. 431 TVH E30/12-1 SHEET 2 OF 3

WO No. COFD9DPCMM SCALE:

4



1 SITE PLAN - FINAL LAYOUT

Scale: 1/4" = 1'-0" (22 x 34), 1/8" = 1'-0" (11 x 17)

LEGEND

- BLACK = EXISTING ITEMS TO REMAIN
- BLACK WITH RED CLOUD = EXISTING ITEMS TO BE REVISED
- RED WITH RED CLOUD = NEW ITEMS TO BE ADDED
- GREEN CLOUD WITH HATCHING = EXISTING ITEMS TO BE REMOVED

NOT FOR CONSTRUCTION

REV No.	WORK ORDER	DESCRIPTION	DATE	BY	CHKD	APPD		DATE	BY
4	CO7080PCMM	TV HILL MW SITE RENOVATION	13-FEB-13	MTG	JKS	JKS	DRAWN	4-JUN-13	MTG
3	CO7080PCMM CO7080PCMM	SMCP TV HILL - MW RENOVATION - AS BUILT	31-JAN-13	SS	JKS	JKS	CHECKED	4-JUN-13	JKS
2	CO7080PCMM CO7080PCMM	SMCP TV HILL - TV HILL MW RENOVATION	22-OCT-12	SS	JKS	JKS	APP'D	4-JUN-13	JKS
1	DOC3080CCMM	SMCP TV HILL	5-MAY-12	PMH	JKS	JKS			
0	------	ORIGINAL ISSUE	24-DEC-08	KJD	JSE	HD			

REVISIONS

ENG. RECORD

NVEnergy

TV HILL MICROWAVE
SITE RENOVATION POD

SITE PLAN - FINAL LAYOUT

DWG. No. 431.TV-FEB/12-1 SHEET 3 OF 3

WO No. CO7080PCMM SCALE

4