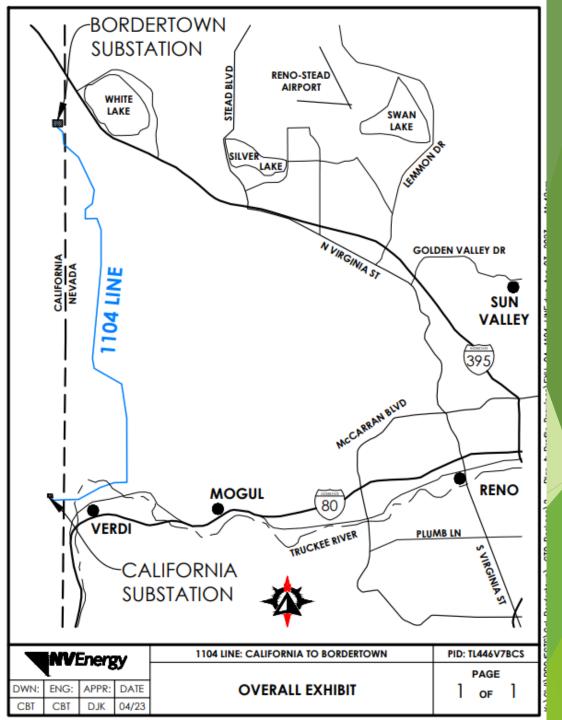
NV Energy Transmission Line 1104 Special Use Permit Application WSUP23-0032

Washoe County Planning Commission Presentation May 7, 2024

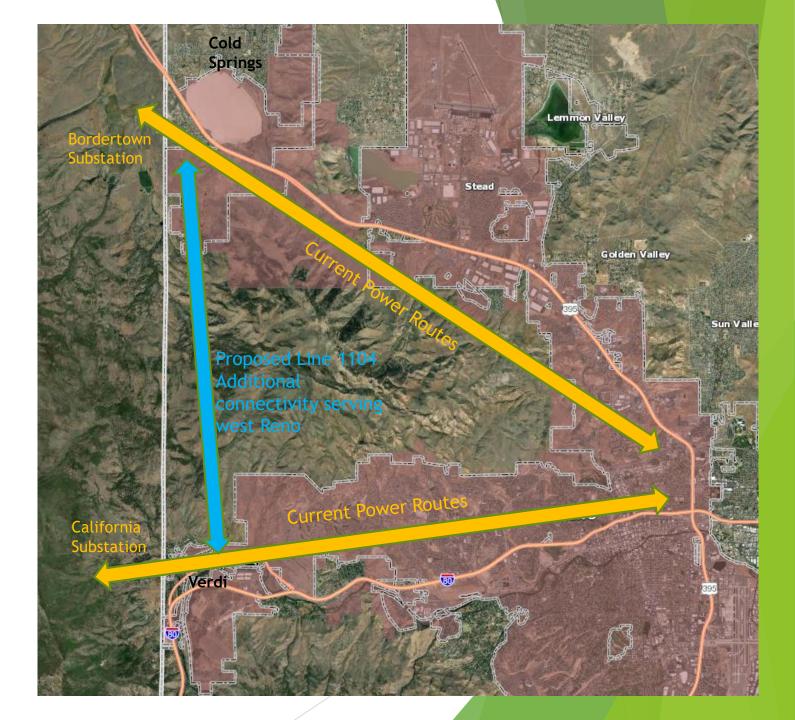
Line 1104 Alignment Request

- Requested is a special use permit (SUP) for a major public facility use type and for major grading. A wavier to landscaping, parking requirements and allowance of heights for poles as high as 105 feet.
- The project entails the construction of a 120kV transmission power line to connect between the California Substation (near Verdi) and the Bordertown Substation (near Cold Springs).
- The project considered to be a project of regional significance and requests the establishment of a new regional utility corridor.
- Project has been approved by the USFS known as the Peavine/Poleville Alternative in a Final Record of Decision in June 2019



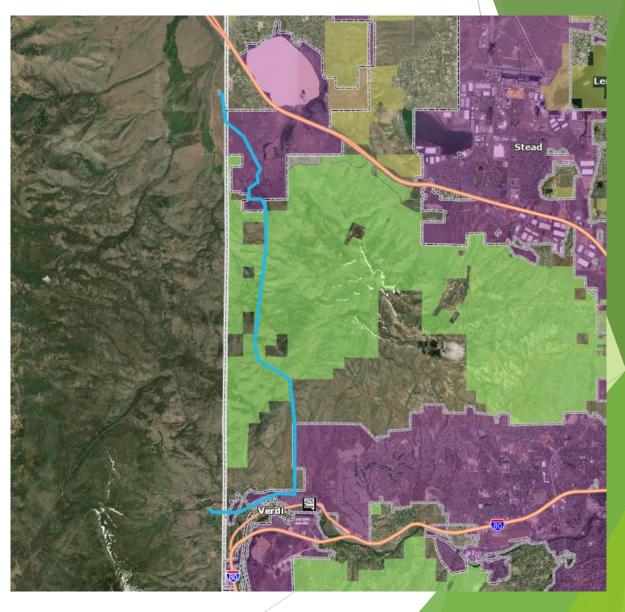
Current Transmission Power Connectivity

- Increases reliability of power service in west Reno
- Per NERC (North American Electric Reliability Corporation) <u>mandatory</u> transmission standards, NV Energy is required to provide reliable service in the instance of a line failure.
- If one line fails in the area, it can cause other lines to trip as well, leaving the entire region without power. Line 1104 is proposed to mitigate the possibility of such occurrences.



City/County Segments & Federally Owned Land

Most of the unincorporated Washoe County land associated with this application is within Federal holding.

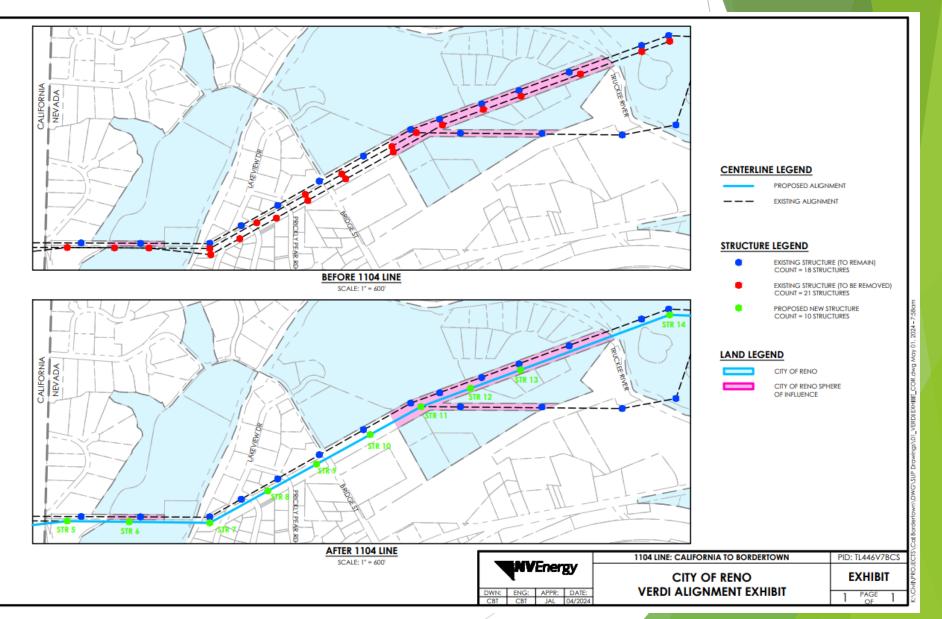


City/County Line Segments (Verdi Corridor)

City of Reno Washoe County

Through the existing Verdi Utility Corridor there will be 21 poles removed and 10 added in the section shown.

Net loss of 11 pole structures.



Project Overview

Proposed Line Length - 12.0+/- miles (City of Reno, Washoe County and California segments)

10.9+/- miles to be constructed in Nevada (City of Reno and Washoe County)

• 4.1 miles within the City of Reno and the remaining 6.8 miles in Washoe County

Provides redundancy and stability between the Bordertown Substation (near Cold Springs) and the California Substation (near Verdi), **providing mandated reliability** to the electric transmission capacity for the west side of Reno

Access routes

- Access routes will predominately use existing forest service access roads.
- Some roads will need to be widened to get the necessary equipment to the alignment. It is in these
 road widening areas that grading thresholds requiring a major grading SUP are necessitated.
- Any roads widened or created with the project are required (though the USFS approval) to be restored to previous conditions after construction.

USFS Review of Project

This transmission line has been reviewed and approved by the USFS and a final environmental impact statement (EIS) and record of decision (ROD) have been completed.

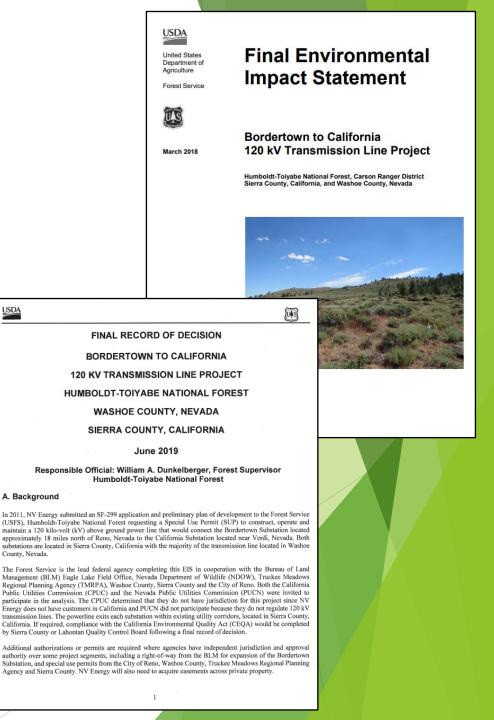
The final EIS and final ROD can be found at the following site:

https://www.fs.usda.gov/project/?project=36656&exp=overview

You can also get to the USFS site and to the project by searching:

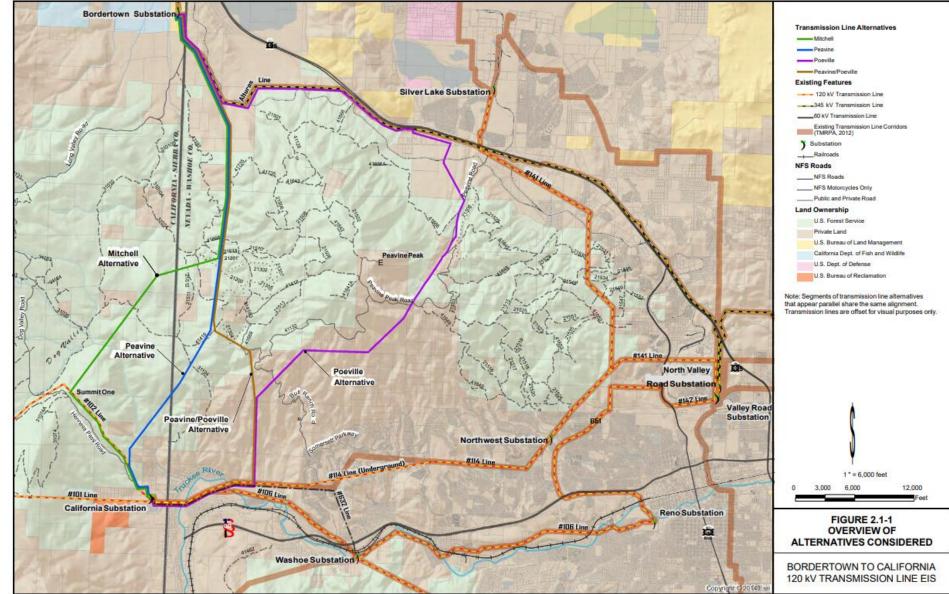
FINAL RECORD OF DECISION BORDERTOWN TO CALIFORNIA 120 KV TRANSMISSION LINE PROJECT

The Final ROD states that the decision of approval of the chosen alternative <u>"provides the needed benefits of reliable electric</u> <u>transmission capacity to the west side of Reno consistent with</u> <u>the reliability standards that NV Energy is mandated to</u> <u>achieve."</u>



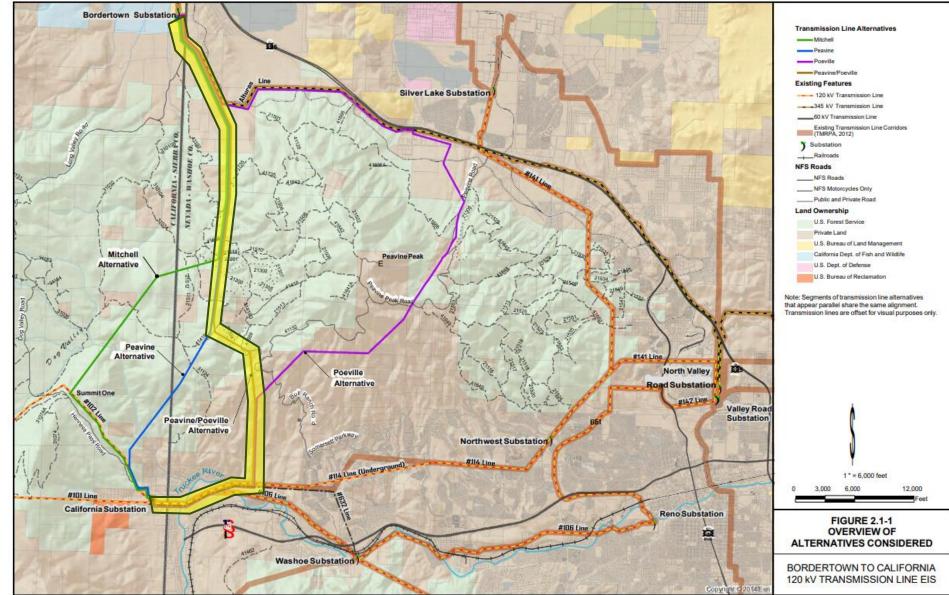
Decision by USFS - Final EIS and Final ROD

The Peavine/Poeville "alternative would use a regionally designated utility corridor east of the California Substation and federally designated portions of the Section 368 Energy Corridor near Bordertown Substation. This alternative minimizes routing across private land and avoids a property listed on the NRHP. This route maximizes crossing land previously disturbed by wildland fire, and minimizes crossing pine forest communities and avoids designated critical habitat for Webber ivesia (Ivesia webberi), a threatened plant species protected under the Endangered Species Act (ESA) of 1973." Source - Final EIS - Bordertown to California 120 kV Transmission Line Project



Decision by USFS - Final EIS and Final ROD

The Peavine/Poeville "alternative would use a regionally designated utility corridor east of the California Substation and federally designated portions of the Section 368 Energy Corridor near Bordertown Substation. This alternative minimizes routing across private land and avoids a property listed on the NRHP. This route maximizes crossing land previously disturbed by wildland fire, and minimizes crossing pine forest communities and avoids designated critical habitat for Webber ivesia (Ivesia webberi), a threatened plant species protected under the Endangered Species Act (ESA) of 1973." Source - Final EIS - Bordertown to California 120 kV Transmission Line Project



Decision by USFS

The federal government's decision on the line was reviewed relative to:

- Land Use and Private Property;
- Public Health and Safety;
- Visual Resources;
- Vegetation Resources;
- Special Status Plants;
- Wildlife Habitat; and
- Cultural Resources

The following rationale is provided in the Final ROD for the approval of the route for this transmission line:

- Provides a back-up power line to serve west Reno;
- Minimizes crossing forest land while utilizing regionally and federally designated utility corridors;
- Minimizes routing across private land;
- Avoids properties listed on National Register of Historic Places;
- Avoids critical habitat and T&E species areas;
- Maximizes the crossing of land previously disturbed by wildland fire; and
- Minimizes the crossing of mature forest vegetation areas.

Verdi Corridor Existing Line Photos



Western Bridge St. Corridor Pole on right side of photo to be removed and replaced with joint circuited poles



Eastern Bridge St. Corridor

Pole on right side of photo to be removed and replaced with joint circuited poles

Pole on left side of photo to be removed and replaced with joint circuited poles



Cold Springs/ Alturas Corridor Existing Line Photos Near California State Line

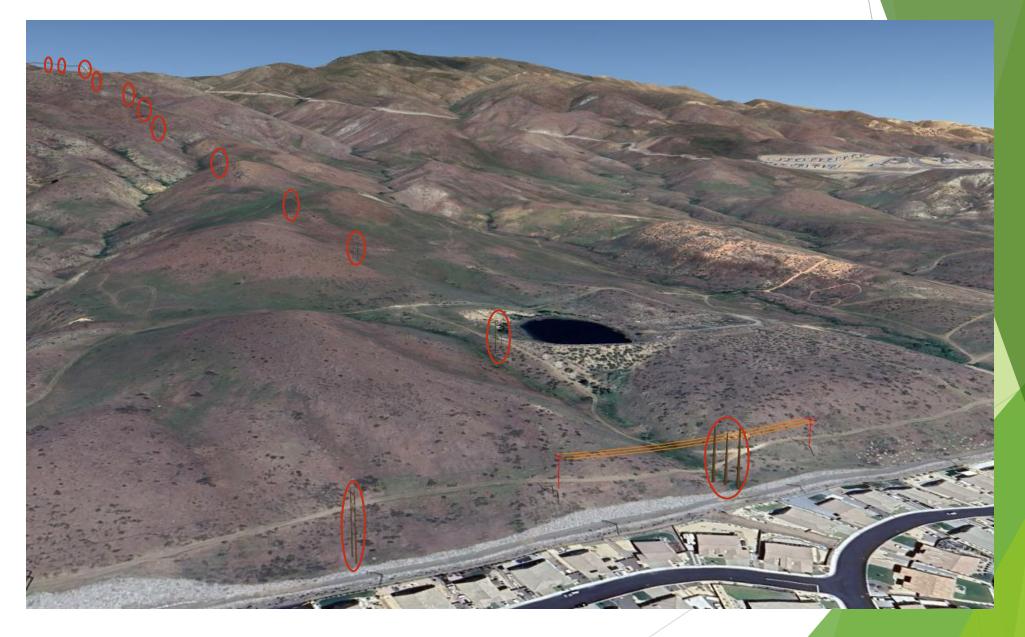




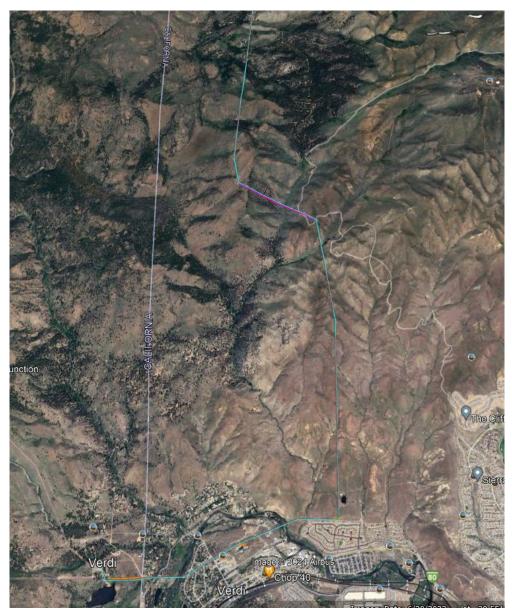
Line North of West Meadows Estates Subdivsion



Line North of West Meadows Estates Subdivsion



Preferred Alignment - Sparse Vegetation





Alignment Topography - Washoe County Portion



Finding FEIS and FROD

USFS site: https://www.fs.usda.gov/project/?project=36656&exp=overview

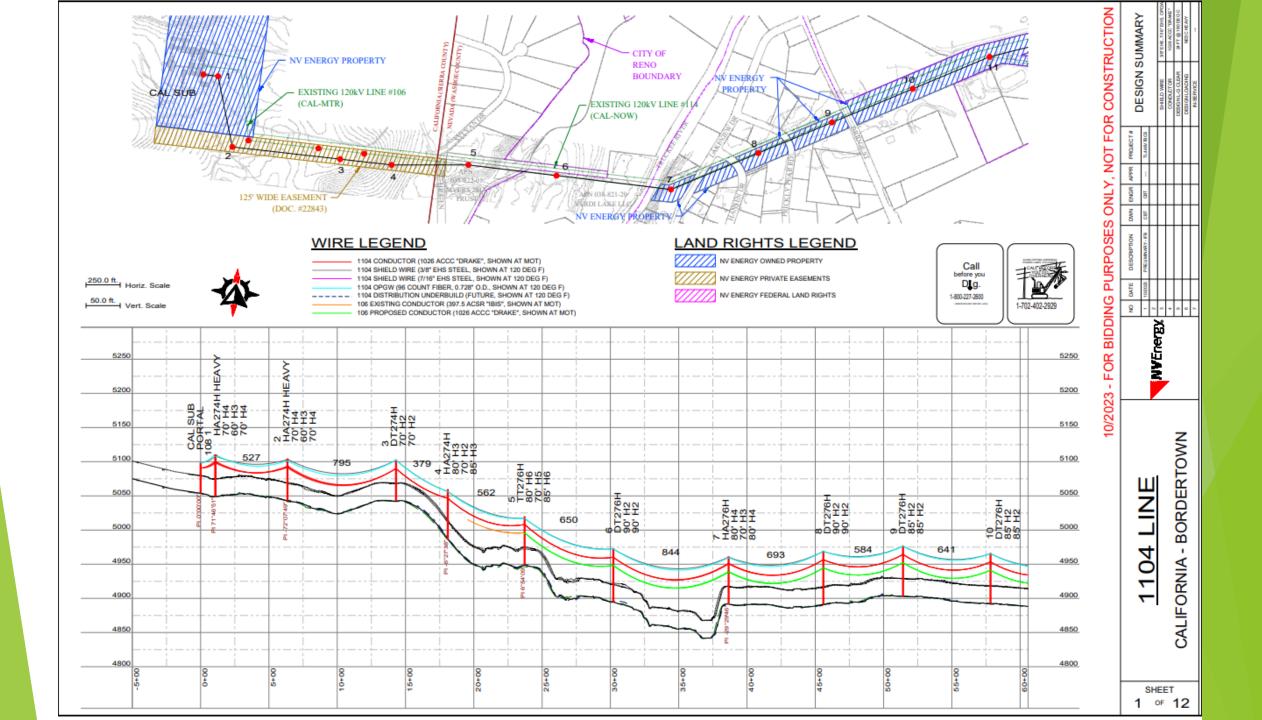
Or search: FINAL RECORD OF DECISION BORDERTOWN TO CALIFORNIA 120 KV TRANSMISSION LINE PROJECT

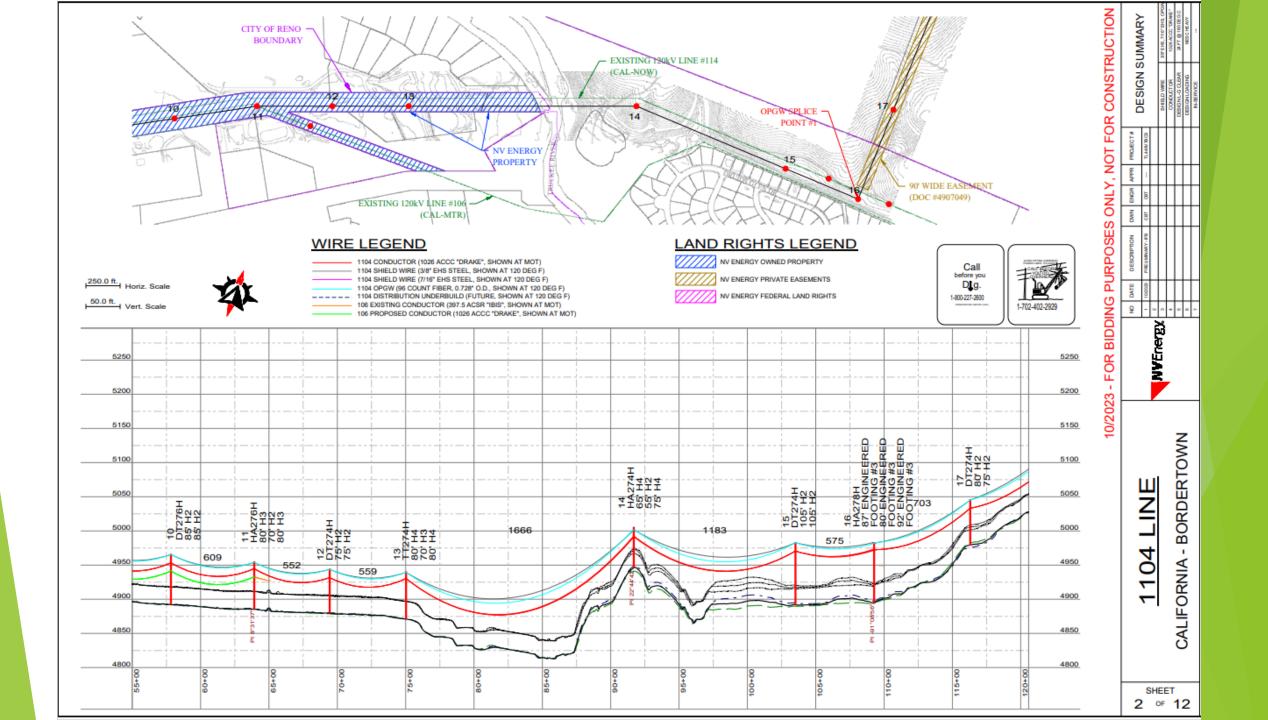
Project Navigation Bordertown to California 120kV Transmission Line Project Overview Subscribe to this feed Project Detail Construct 120kV transmission line connecting the Bordertown and California substations. Project Location Location Summary Get Connected Appoximately 15 miles west and northwest of Reno, Nevada along the Nevada and California Stateline. North of Interstate 80 near Verdi, Nevada and west of Highway 395 at Bordertown, Nevada Request More Info District: Carson Ranger District Comment/Object on Project Project Documents **Public Comment/Objection** Use the widget below to browse documents associated with this project. Cookies must be enabled to use this tool. Reading Room If you are using a mobile device, the setting for "Allow cross-website tracking" must also be enabled to view the Subscribe to Email Updates documents. You do not need to sign up or login to Box to view documents, but if you have difficulty accessing the documents on a mobile device, you may choose to sign up for a free account, download the app to your device and log in to Forest Links ensure that you can open the documents SOPA Reports Alternatively, these documents can be accessed on the Pinyon Public website: View Documents on Pinyon Public **Objection Responses** Log in Sign up **NEPA Resources** FS Environmental Bordertown to California 120kV Transmission Line (36656) ۍ Management NAME UPDATED **↑** II < **CEQ's Guide to NEPA** Scoping Mar 17, 2022 by eMNEPA PA. Analysis Mar 27, 2022 by eMNEPA PA. Decision Mar 27, 2022 by eMNEPA PA...

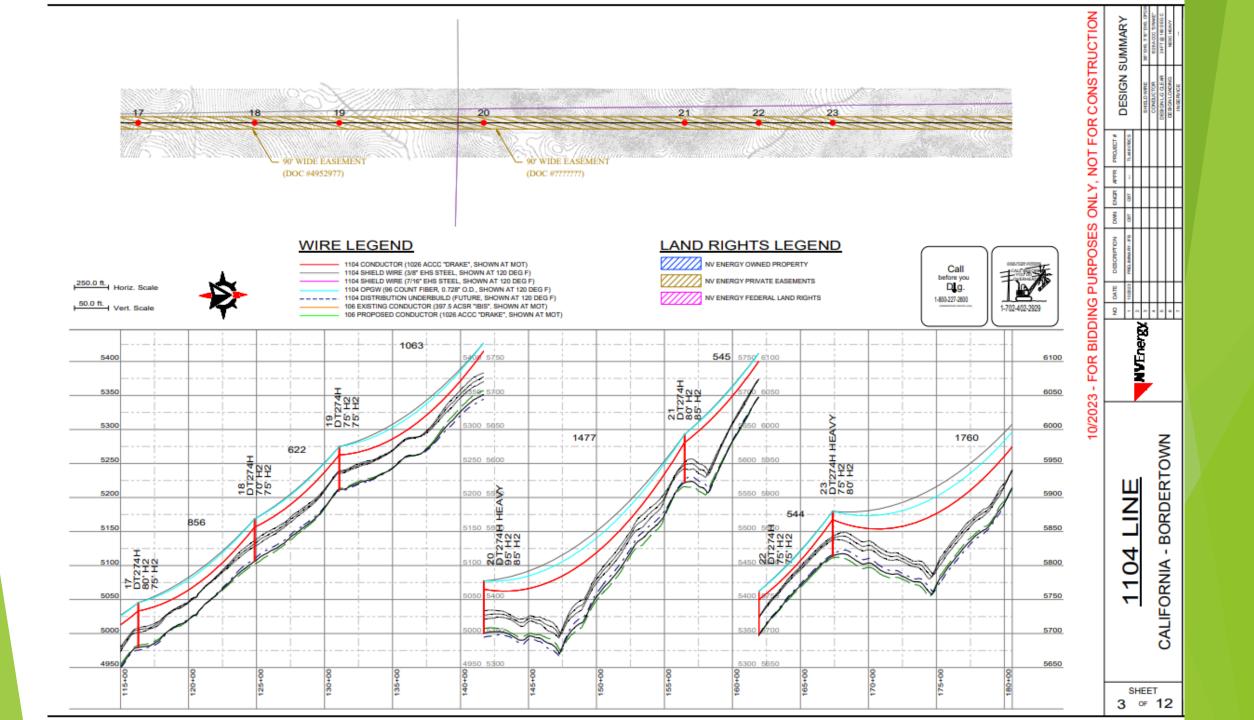
Links to Documents The applicant agrees with the staff's review and analysis of the application and agrees with the recommendation of approval for the project. We believe, as does staff that all of the legal findings can be made for this project, and we respectfully request your approval of the project this evening.

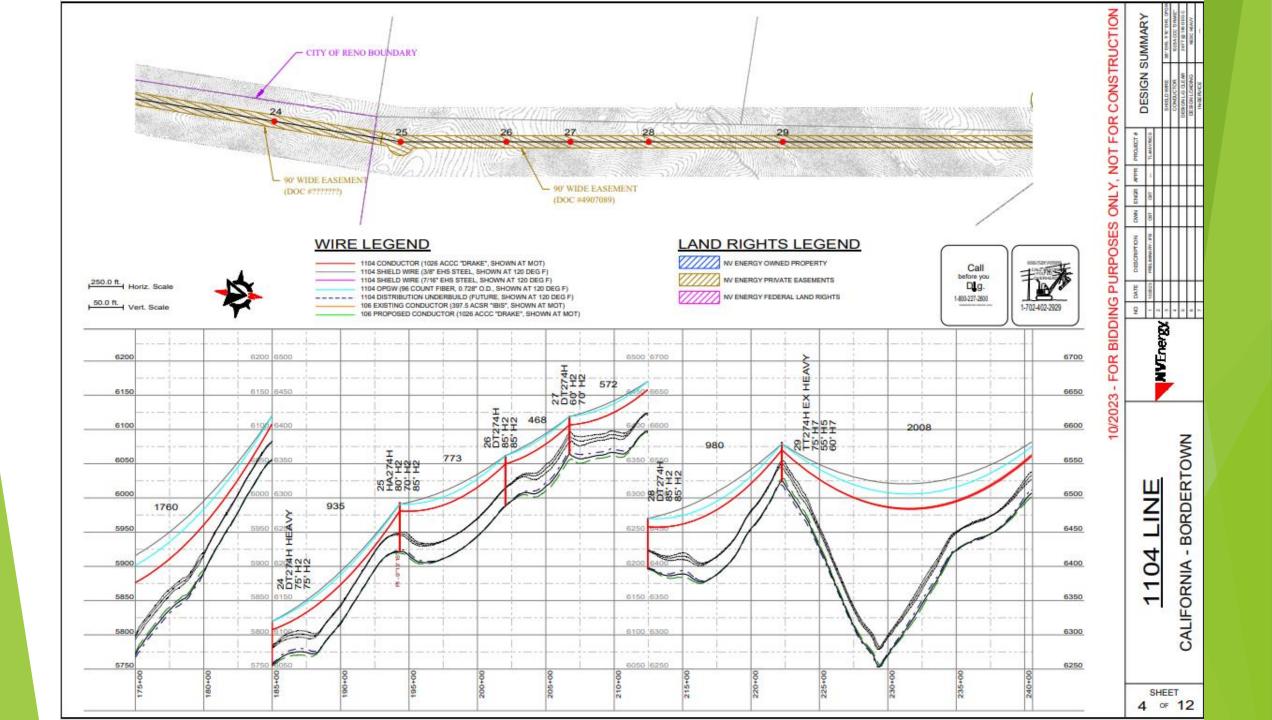
Questions

Additional Slides Available for Questions

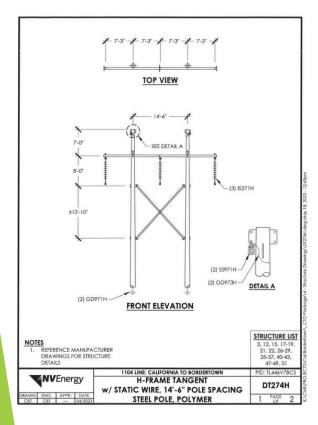


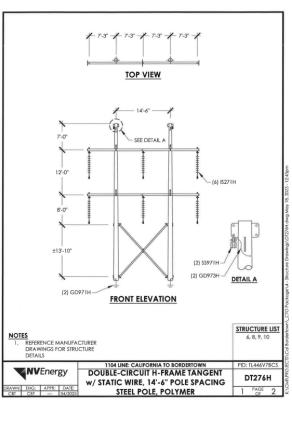


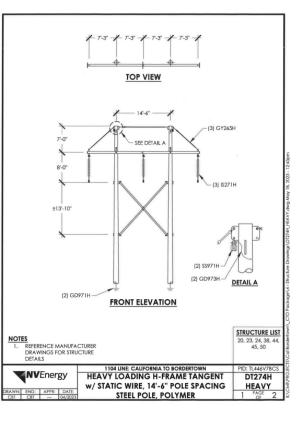


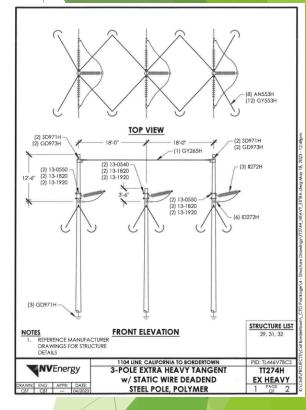


Pole Structures (unincorporated county sections)

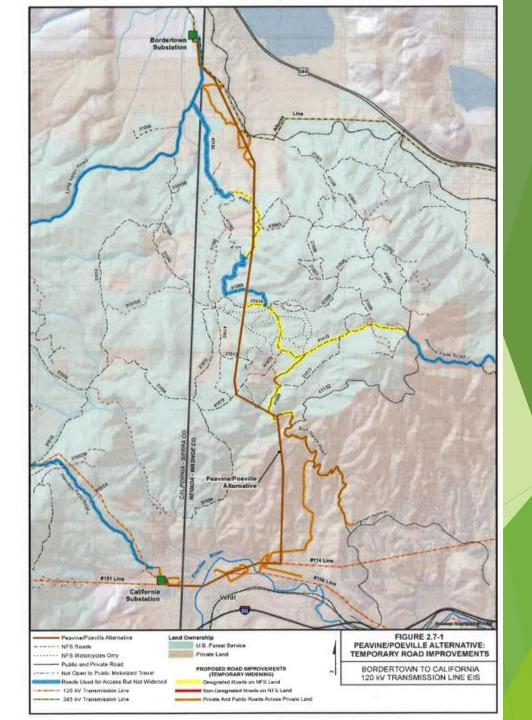








FEIS Exhibit Temporary Road Improvements



Fire Concerns

Wildfire concerns are addressed through NV Energy's system hardening methods that are being deployed throughout the area.

- Use of steel structures rather than combustible wood structures.
- Targeted <u>vegetation management programs</u> that include the removal of ground vegetation in easements, pole grubbing so ground areas around the poles are clear of combustible vegetation, and removal of hazardous trees to minimize the chances of them striking power lines.
- <u>Protective devices</u> on the transmission line with high-speed relay equipment that can deenergize the line within 0.1 seconds.
- Public safety preparation and prevention programs, including <u>Public Safety</u> <u>Outage Management (PSOM)</u> as a last resort in extreme fire risk areas.

Anticipated Application Steps and Timeframes

Washoe County Process (SUP)

- Washoe County PC Tonight
- Washoe County Commission TBD

City of Reno Process (CUP)

- Ward 5 NAB May 14, 2024
- Reno PC May 15, 2024
- Reno City Council TBD

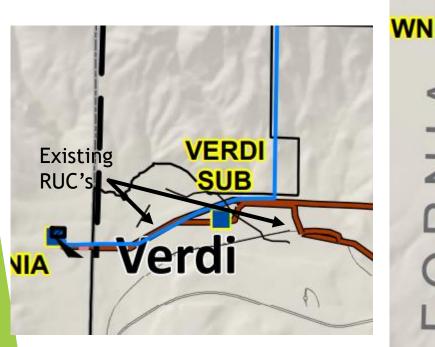
After WC BOCC and RCC hearings - Regional Planning Hearings Likely in July and August

Overhead v. Underground Transmission Lines

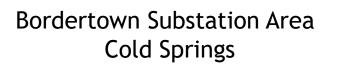
The line will be constructed overhead for several reasons. Undergrounding 120kV transmission lines cost on average five to ten times more than construction of overhead transmission lines. Those increased costs can affect NV Energy's rate payers. Failures on undergrounded transmission lines are not easily rectified and can negatively impact the service area which is fed by the transmission line up to a year while equipment and personnel are mobilized.

Truckee Meadows Regional Plan - Regional Utility Corridor Map

Z



California Substation Area Verdi



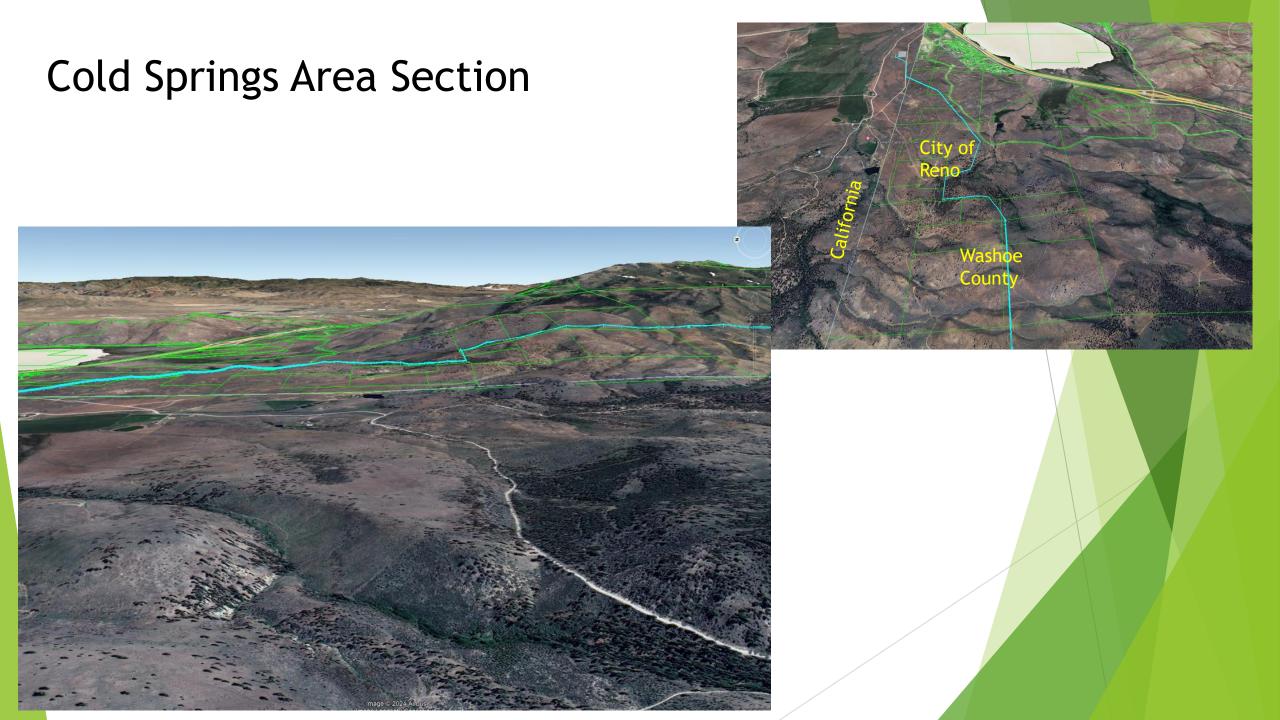
Alturus

Existing

Line

RUC

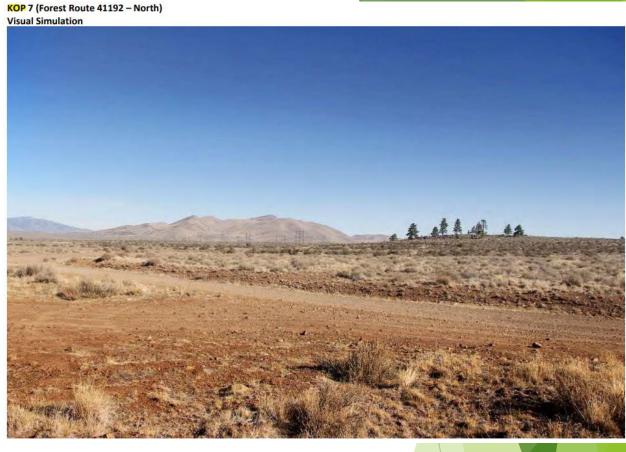




Key Observation Point from FEIS

KOP 7 (Forest Route 41192 – North) Existing Conditions







Project Necessitates and Benefits

