THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER, THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND THE ADVISORY COUNCIL ON HISTORIC PRESERVATION, REGARDING THE

BRIGHTLINE WEST – LAS VEGAS TO VICTOR VALLEY PROJECT IN BAKER, YERMO, AND BARSTOW, IN SAN BERNARDINO COUNTY, CALIFORNIA, AND IN LAS VEGAS AND PRIMM, IN CLARK COUNTY, NEVADA

WHEREAS, Federal Railroad Administration (FRA), the California State Historic Preservation Officer (CA SHPO), Nevada State Historic Preservation Officer (NV SHPO), and Advisory Council on Historic Preservation (ACHP), executed a Programmatic Agreement on August 15, 2023 (the "Agreement") for the Brightline West – Las Vegas to Victor Valley Project (Project) as FRA anticipates providing future financial assistance to DesertXpress Enterprises, LLC (Project Sponsor) to construct and operate the Project and FRA's actions for the Project would be considered an Undertaking under Section 106 of the National Historic Preservation Act of 1966 (54 United States Code (U.S.C.) § 306108) (NHPA), as amended, and its implementing regulations at 36 Code of Federal Regulations (CFR) § 800 (hereinafter collectively referred to as Section 106); and

WHEREAS, FRA, CA SHPO, NV SHPO, and ACHP are Signatories to the Agreement and the Federal Highway Administration (FHWA), the Surface Transportation Board (STB), the Bureau of Land Management (BLM), the U.S. Army Corps of Engineers Los Angeles District (USACE), the California Department of Transportation (Caltrans), the Nevada Department of Transportation (NDOT) and the Project Sponsor are Invited Signatories to the Agreement; and

WHEREAS, due to refinement in Project design, FRA, based on information provided by the Project Sponsor, has determined it is necessary to modify the area of potential effects (APE) for the Project; and

WHEREAS, in accordance with Stipulation XVI., the Agreement may be amended at the request of any Signatory or Invited Signatory; and

WHEREAS, pursuant to Stipulation XVI., FRA will notify the Signatories, Invited Signatories, Consulting Tribes, and Consulting Parties of any request to amend the Agreement, and consult for no more than thirty (30) calendar days (or another time period agreed upon by the Signatories and Invited Signatories) to consider such amendment; and

WHEREAS, this First Amendment to the Agreement may be executed in counterparts, with a separate page for each signature. This Agreement will become effective on the date of the final signature of the Signatories. FRA will ensure each Signatory and Invited Signatory is provided with a complete copy and FRA will send a copy of this executed amendment to the Signatories and Invited Signatories.

NOW, THEREFORE, in accordance with Stipulation XVI. of the Agreement, FRA, the CA SHPO, the NV SHPO, the ACHP, FHWA, STB, BLM, USACE, Caltrans, NDOT, and the Project Sponsor agree to amend the Agreement as follows:

1. "Attachment 1: Area of Potential Effects & Project Description," including "Appendix A: Area of Potential Effects" is deleted in its entirety and replaced with the attached "Attachment 1: Area of Potential Effects & Project Description," including "Appendix A: Area of Potential Effects."

All other sections of the PA remain unchanged.

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
REGARDING THE

BRIGHTLINE WEST – LAS VEGAS TO VICTOR VALLEY PROJECT IN BAKER, YERMO, AND BARSTOW, IN SAN BERNARDINO COUNTY, CALIFORNIA, AND IN LAS VEGAS AND PRIMM, IN CLARK COUNTY, NEVADA

SIGNATORY:

FEDERAL RAILROAD ADMINISTRATION

By: Marlo of Osterhues Date: 4/12/2024

Marlys Osterhues

Director, Office of Environmental Program Management

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
REGARDING THE

BRIGHTLINE WEST – LAS VEGAS TO VICTOR VALLEY PROJECT IN BAKER, YERMO, AND BARSTOW, IN SAN BERNARDINO COUNTY, CALIFORNIA, AND IN LAS VEGAS AND PRIMM, IN CLARK COUNTY, NEVADA

SIGNATORY:

CALIFORNIA STATE HISTORIC PRESERVATION OFFICER

By: Date: April 15, 2024

Julianne Polanco

State Historic Preservation Officer

THE FEDERAL RAILROAD ADMINISTRATION, THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER, THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND THE ADVISORY COUNCIL ON HISTORIC PRESERVATION, REGARDING THE

BRIGHTLINE WEST – LAS VEGAS TO VICTOR VALLEY PROJECT IN BAKER, YERMO, AND BARSTOW, IN SAN BERNARDINO COUNTY, CALIFORNIA, AND IN LAS VEGAS AND PRIMM, IN CLARK COUNTY, NEVADA

SIGNATORY:

NEVADA STATE HISTORIC PRESERVATION OFFICER

By: Hele on behalf of Date: 4-18-24
Rebecca Lynn Palmer
State Historic Preservation Officer

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
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BRIGHTLINE WEST – LAS VEGAS TO VICTOR VALLEY PROJECT IN BAKER, YERMO, AND BARSTOW, IN SAN BERNARDINO COUNTY, CALIFORNIA, AND IN LAS VEGAS AND PRIMM, IN CLARK COUNTY, NEVADA

SIGNATORY:

ADVISORY COUNCIL ON HISTORIC PRESERVATION

By: Date: 5/17/2024

Reid J. Nelson
Executive Director

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
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BRIGHTLINE WEST – LAS VEGAS TO VICTOR VALLEY PROJECT IN BAKER, YERMO, AND BARSTOW, IN SAN BERNARDINO COUNTY, CALIFORNIA, AND IN LAS VEGAS AND PRIMM, IN CLARK COUNTY, NEVADA

Date: 3/29/24

INVITED SIGNATORY:

DESERTXPRESS ENTERPRISES, LLC

By: 3000 [M]

Sarah Watterson

President

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
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INVITED SIGNATORY:

FEDERAL HIGHWAY ADMINISTRATION: NEVADA DIVISION

KHOA T NGUYEN Digitally signed by KHOA T NGUYEN Date: 2024.04.02 15:46:12 -07'00'	Date: 04/02/2024
Khoa Nguyen, PE Division Administrator	

THE FEDERAL RAILROAD ADMINISTRATION, THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER, THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND THE ADVISORY COUNCIL ON HISTORIC PRESERVATION, REGARDING THE

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INVITED SIGNATORY:

FEDERAL HIGHWAY ADMINISTRATION: CALIFORNIA DIVISION

By: Elissa K. Konove	Digitally signed by Elissa K. Konove Date: 2024.04.12 15:11:41 -07'00'	Date:	
Elissa K. Konove			
Acting Division Administor			

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
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INVITED SIGNATORY:

SURFACE TRANSPORTATION BOARD

DANIELLE GOSSELIN

Digitally signed by DANIELLE

GOSSELIN

By:

Date: 2024.04.15 14:36:34 -04'00'

Danielle Gosselin

Director, Office of Environmental Analysis

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
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INVITED SIGNATORY:

U.S. DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT: SOUTHERN NEVADA DISTRICT

Theresa R. Coleman District Manager Date: May 7, 2014

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
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INVITED SIGNATORY:

U.S. DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT: BARSTOW FIELD OFFICE

MARC STAMER Digitally signed by MARC STAMER Date: 2024.04.17 16:43:58 -07'00'	Date:	
Marc Stamer		
Field Manager		

THE FEDERAL RAILROAD ADMINISTRATION, THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER, THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND THE ADVISORY COUNCIL ON HISTORIC PRESERVATION, REGARDING THE

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INVITED SIGNATORY:

U.S. DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT: NEEDLES FIELD OFFICE

RONALD N	UCKLES NUCKLES		
By:	Date: 2024.04.01 10:48:32 -07'00'	Date:	
Ron Nuckles			
Field Manager			

THE FEDERAL RAILROAD ADMINISTRATION, THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER, THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND THE ADVISORY COUNCIL ON HISTORIC PRESERVATION, REGARDING THE

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INVITED SIGNATORY:

U.S. ARMY CORPS OF ENGINEERS, LOS ANGELES DISTRICT

David J. Castanon

Chief, Regulatory Division

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
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INVITED SIGNATORY:

CALTRANS

By: _____ _ Date: 04/10/2024

Catalino A. Pining III
Caltrans District 8 Director

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
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INVITED SIGNATORY:

CALTRANS

By: ______ Date: 04/10/2024

Catalino A. Pining III
Caltrans District 8 Director

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
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INVITED SIGNATORY:

NEVADA DEPARTMENT OF TRANSPORTATION

By: Tray Larkin Thomason	Date:	04/03/2024
Tracy Larkin Thomason		
Director		

Attachment 1 Area of Potential Effects & Project Description

PROGRAMMATIC AGREEMENT AMONG

THE FEDERAL RAILROAD ADMINISTRATION,
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER,
THE NEVADA STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
REGARDING THE

BRIGHTLINE WEST – LAS VEGAS TO VICTOR VALLEY PROJECT IN BAKER, YERMO, AND BARSTOW IN SAN BERNARDINO COUNTY, CALIFORNIA AND LAS VEGAS AND PRIMM IN CLARK COUNTY, NEVADA

Brightline West - Las Vegas to Victor Valley

Project Location and Description, January 2024 (First Amendment)

Summary

The Brightline West - Las Vegas to Victor Valley project (Project) seeks to construct an approximately 170-mile-long, high-speed, passenger train line connecting Victorville, California, to Las Vegas, Nevada. Much of the fully grade-separated, passenger-only railroad would be constructed within the Interstate-15 (I-15) highway corridor. Two passenger stations would be built, one in Victorville, California, and the other in Las Vegas, Nevada; both would be located next to the I-15 corridor. The Project also includes ancillary operations and maintenance facilities, as well as utility corridors to link proposed electrical substations to external sources of power to accommodate the preferred electrically powered technology option.

The total acreage of the Area of Potential Effect (APE) is 53,853 acres. The APE's Limits of Disturbance (LOD) is a subset of the APE and covers approximately 5,971 acres and is measured at 171.1 miles long. The LOD is also occasionally referred to as the Area of Potential Effects-Area of Direct Impact (APE-ADI). The California segment of the Project is located between Victorville, California, and the California/Nevada state line. In California, the Project APE encompasses 42,180 acres and is 138 miles long; the LOD in California encompasses 3,808 acres and is 137.5 miles long. The Nevada segment of the Project is located between the California-Nevada state line near Primm, Nevada, and Las Vegas, Nevada. The Project APE in Nevada encompasses 11,672 acres and is 34.5 miles long; the LOD in Nevada encompasses 2,162 acres and is 34 miles long. The APE is depicted in Appendix A. In January 2019, DesertXpress Enterprises, LLC, submitted proposed project modifications, including a refined alignment between Victor Valley and Las Vegas (with a greater proportion within the I-15 median), modified station sites in Apple Valley and the Las Vegas area, and changes to ancillary facilities (FRA 2020).

Detailed Discussion

As the Project moves into final design and preparation to begin construction, additional Project modifications, occurring within the LOD have been identified. Those modifications are described in Table 1. The total Project APE also requires revision to accommodate modifications to the LOD in accordance with the APE delineation values as previously established for the Project.

In September 2023, additional project modifications were identified. The primary changes include moving the Victor Valley Station (CA) and 14 miles of rail alignment from the east side of I-15 into the median, moving 12 miles of rail alignment between Primm and Jean (NV) from the east side of I-15 into the median, and moving the maintenance facility from the Victor Valley Station area to Sloan, NV with tracks connecting to the existing Union Pacific Railroad mainline. Accommodating these changes requires approximately 6 freeway ramp adjustments, 2 new emergency crossovers, 3 revised and 4 added culverts, a viaduct structure over an existing industrial railroad track, and an additional 2 miles of track south of the Victor Valley Station (all within the Caltrans right-of-way).

Table 1. Project Modifications to the APE

Project Feature	Description of Modification(s)
Alignment	
	The project modifications involve relocating the rail alignment between the Victor Valley Station (previously referred to as Dale Evans Station) and Sidewinder Road from the east side of I-15 to the I-15 median. As such, the entirety of the proposed Segment 1 rail alignment would be within the I-15 median, which would result in reduced impacts and would increase the efficiency of train operations. This design change is also favorable with Caltrans and FHWA because it would improve constructability of potential future I-15 improvements in either the northbound or southbound direction. Additionally, the Segment 1 rail alignment would be extended 1 mile south of the Victor Valley Station to access a maintenance-of-way track that would be constructed to move equipment from the median rail mainline to the maintenance-of-way facility. Extension of the LOD south of the Victor Valley Station through the median of the I-15 to the existing CEMEX rail track at Black Mountain Quarry Road, approximately 1-mile south of the previous APE required expansion of the APE by 1,000 feet, either side of the centerline of the LOD (consistent with APE delineation values for at-grade rural/desert alignments). Constructing a median-running rail alignment in that area, south of the Dale Evans Parkway interchange, would require realignment of the existing I-15 northbound travel lanes approximately 50 feet east and reconstruction of the Dale Evans Parkway interchange, including the overpass. (This is described further under the Victor Valley Station description, below.) Additionally, the I-15 northbound travel lanes south of the Dale Evans Parkway interchange would be elevated approximately
	25 feet to allow the maintenance-of-way track to pass from the median to the maintenance-of-way facility. All roadway work would occur within existing Caltrans right-of-way. Incorporation of the access roads along the CEMEX track required expansion of the APE by 100 feet, either side of the
	centerline (consistent with APE delineation values for access roads).

Project Feature	Description of Modification(s)
Segment 5 Alignment (Primm to Sloan Road)	Project modifications would relocate the rail alignment between Primm, Nevada, and north of Goodsprings Road near Jean, Nevada, from the east side of I-15 to the I-15 median. As such, the entirety of the Segment 5 rail alignment would be within the I-15 median, which would result in reduced impacts, would increase the safety and efficiency of train operations, and would improve project constructability for future I-15 widening in this portion of the alignment.
	Additionally, the previously considered braid structures near Primm and at the Union Pacific Railroad (UPRR) crossing are no longer needed and have been removed from the Project.
Stations	
Victor Valley Station (previously referred to as Dale Evans Station)	The prior project design evaluated in September 2020 considered collocating an operations, maintenance, and storage facility (OMSF) with the Victor Valley Station (previously referred to as the Dale Evans Station in the DesertXpress Final EIS and the September 2020 reevaluation), with a permanent footprint of approximately 300 acres. The project modifications include relocation of the vehicle maintenance facility (VMF), previously located as part of the Victor Valley Station, to a site on the west side of I-15 in Sloan, Nevada (described further below). The permanent footprint of the Victor Valley Station would remain unchanged. As noted above under the description of Segment 1, the project modifications include relocating the rail alignment into the I-15 median. To accommodate the median rail alignment, the Victor Valley Station layout has been revised to include the passenger boarding and alighting platforms as well as a maintenance-of-way track structure in the I-15 median. To provide the necessary footprint and access for the passenger platforms, the existing I-15 northbound lanes would be raised and moved east within the Caltrans right-of-way south of the Dale Evans Parkway interchange. Passengers would access station platforms using a walkway underneath the relocated I-15 northbound lanes.

Project Feature	Description of Modification(s)		
Ancillary Features			
Freeway Ramp	The prior project design included realignment of portions of approximately 17 existing I-15 on- and off- ramps to accommodate the rail line within the I-15 right-of-way. The project modifications include extending those on- and off-ramp realignments and ramp modifications and changing the location where those ramp realignments/reconstructions transition to the existing roadway/pavement. There are six locations where those proposed on- and off-ramp modifications would occur (from south to north): • I-15 southbound ramps at Dale Evans Parkway • I-15 northbound ramps at Main Street in Barstow		
Realignments/Modifications	 I-15 northbound ramps and southbound ramps at East Primm Boulevard I-15 southbound ramps at Goodsprings Road I-15 southbound ramps at Sloan Road The proposed modifications would be located primarily on 		
	previously evaluated project footprint within existing Caltrans, NDOT, and local rights-of-way along I-15. The modifications are the result of coordination with Caltrans and NDOT on final design details to update the modified median-running alignment to adhere to current safety design standards.		
California Highway Patrol Emergency Crossovers	The prior project design included eight emergency crossovers along the alignment in California. The project modifications include two new emergency crossovers at Zzyzx Road and Halloran Springs. Additionally, five previously evaluated emergency crossovers in Segment 3 would be relocated; the crossovers near Coyote Lake Road, Basin Road, Baker, and both north and south of Halloran Springs. Emergency crossovers would be located mainly on the previously evaluated project footprint within existing Caltrans right-of-way.		

Description of Modification(s)		
The prior project design included roadwork at local interchanges and along the I-15 roadway at various locations. The project modifications include:		
• Realigning the I-15 northbound lane approximately 50 feet east and raising the lane approximately 25 feet to accommodate the passenger platforms in the I-15 median, tail track for train storage, a pedestrian underpass for access to/from the platforms, and a maintenance-of-way access track for trains. Those roadwork improvements would occur along an approximately 1-mile portion of the I-15 northbound lane adjacent to the Victor Valley Station.		
 Additional roadwork at the Dale Evans Parkway interchange accessing the I-15 southbound ramps 		
I-15 median widening at Segment 5 to accommodate the modified median-running alignment		
• Raising the I-15 southbound lanes just south of the Sloan Road interchange to allow for tracks to exit the I-15 median under the southbound lanes and into the relocated VMF site.		
The proposed project modifications also include small, on-road lane realignments along I-15 at Segment 6, near Silverado Ranch Boulevard and Blue Diamond Road.		
The prior project design included drainage and culvert work throughout the project limits. The project modifications include revised designs for three culverts and the addition of four culverts within Segment 5. The associated drainage and grading activities have also been modified accordingly.		
A new connection to the existing CEMEX industrial rail track is proposed on the north side of Apple Valley, California, near the proposed Victor Valley Station. The connection would consist of a turnout off the existing CEMEX track and approximately 2 miles of new track along the east side of I-15 heading north, all within the Caltrans right-of-way. The current design includes a viaduct over the existing CEMEX bridge. Brightline West is working to reach agreement with CEMEX to reconstruct the existing CEMEX track railroad bridge over I-15 to allow the project rail alignment to run at grade underneath the railroad bridge. The proposed new connection would allow rail transport of construction materials such as track ballast, rail, ties, catenary poles, and other miscellaneous materials to the project site and would reduce the need for trucking construction materials to the		

Project Feature	Description of Modification(s)		
Ivanpah Traction Power Substation (TPSS)	The prior project design included a substation and two options for utility line connections in the Ivanpah area. The current design utilizes only the north utility line option with minor adjustments that have been made in response to coordination with BLM and Southern California Edison.		
California Maintenance of Way Facility	The prior project design considered the relocation of the California maintenance-of-way facility from Baker, California, to the I-15 median approximately 6 miles south of the California-Nevada state line, adjacent to the existing California Agricultural Inspection Station. The 25-acre facility was proposed to be utilized for passive equipment storage. Now, the project modifications divide the maintenance-of-way facilities between the proposed new site at Sloan and the Victor Valley Station area.		
	The project design evaluated in the DesertXpress Final EIS included an OMSF very near to the original Victorville Station location west of I-15 and included facilities for maintaining and storing trains. Project modifications evaluated in 2020 relocated the Victorville Station to the south side of I-15 at Dale Evans Parkway in Apple Valley. At that time, it was proposed the OMSF would be collocated with the Victorville Station, and a separate location for vehicle maintenance and storage had not been identified.		
Las Vegas Vehicle Maintenance Facility Sloan (Sloan VMF)	As currently proposed, the project modifications would relocate the vehicle maintenance and storage activities to a site located in Segment 6 west of I-15 and south of Sloan Road On land under BLM jurisdiction in NV and required expansion of the APE by 1,000 feet on either side of the Sloan VMF footprint. The Sloan VMF is located on BLM land that has been identified for disposal in the proposed expansion of the Southern Nevada Public Lands Management Act Disposal Boundary and the proposed use is consistent with Clark County's Master Plan for the area. An additional freight track corridor would connect the Sloan VMF to the adjacent Union Pacific Railroad.		
	Brightline West has filed a connection request and is coordinating with UPRR regarding the connection design and operational concepts. UPRR has granted preliminary approval of the proposed rail connection, which would be subject to additional design development.		

Project Feature

Description of Modification(s)

The Sloan VMF and adjacent UPRR connection would require approximately 246 acres of permanent footprint and 127 acres of temporary footprint and include:

- Storage and staging tracks and overhead catenary system from which trains would be mobilized for daily operations
- Appurtenances associated with the VMF, including but not limited to a train car wash station, a train performance monitoring station, an operations control center, a power substation and distribution lines, utility connections, circulation system, site control, fencing, and parking
- Estimated scale and scope of features and appurtenances for the Sloan VMF are further detailed in Table 2.

The Sloan VMF would be a permanent workplace for approximately 100 employees related to either maintaining the Brightline West train fleet or performing other functions such as driving the trains From the Victory Valley Station in CA to the VMF site located in Segment 6 west of I-15 and south of Sloan Road. The VMF and Maintenance of Way (MOW) building will be approximately 200,000 square feet. Activities at the VMF and MOW facilities will include:

- Routine, daily, and overhaul maintenance of the Brightline West High Speed Rail trail fleet
- Administration, offices, personnel support facilities and storage facilities for materials
- Movement of rail corridor maintenance equipment
- Train storage and staging tracks (including a train loop for turning trains)

The Sloan VMF is located approximately 10 miles south of the Brightline West Las Vegas station site, 1.5 miles east of the I-15 freeway, and 2 miles west of the Union Pacific freight rail corridor. The location is generally undeveloped desert land that gradually slopes west to east from the Union Pacific mainline tracks to the I-15. The area surrounding and partially within the site is comprised of existing industrial uses including Sierra Ready Mix South Plan, Powerhouse LV, American Eagle Ready Mix, Robertson's Ready Mix, the U.S. Army Reserve Center, and Speed Las Vegas race track.

The expected noise and vibration associated with the proposed use at the Sloan VMF will be consistent with the noise and vibration from existing industrial use in the surrounding area. The Sloan VMF would be located on land under BLM jurisdiction and would, therefore, require a right-of-way grant lease from BLM.

Project Feature	Description of Modification(s)
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Temporary Construction Areas (TCAs)

TCAs are areas that would be utilized for construction staging and storage. No permanent project features would be installed in TCAs, and the TCAs would be restored/vacated upon completion of construction. The modified Project includes an additional 202 TCAs located along the alignment. The additional 202 TCAs would add approximately 1,492 acres of temporary footprint, which does not include the 127 acres of total temporary footprint required for constructing the Las Vegas VMF and UPRR connection. The additional TCAs would be located primarily within existing Caltrans or NDOT right-of-way adjoining permanent facilities to be constructed in the I-15 corridor.

Table 2. Sloan VMF Features and Appurtenances

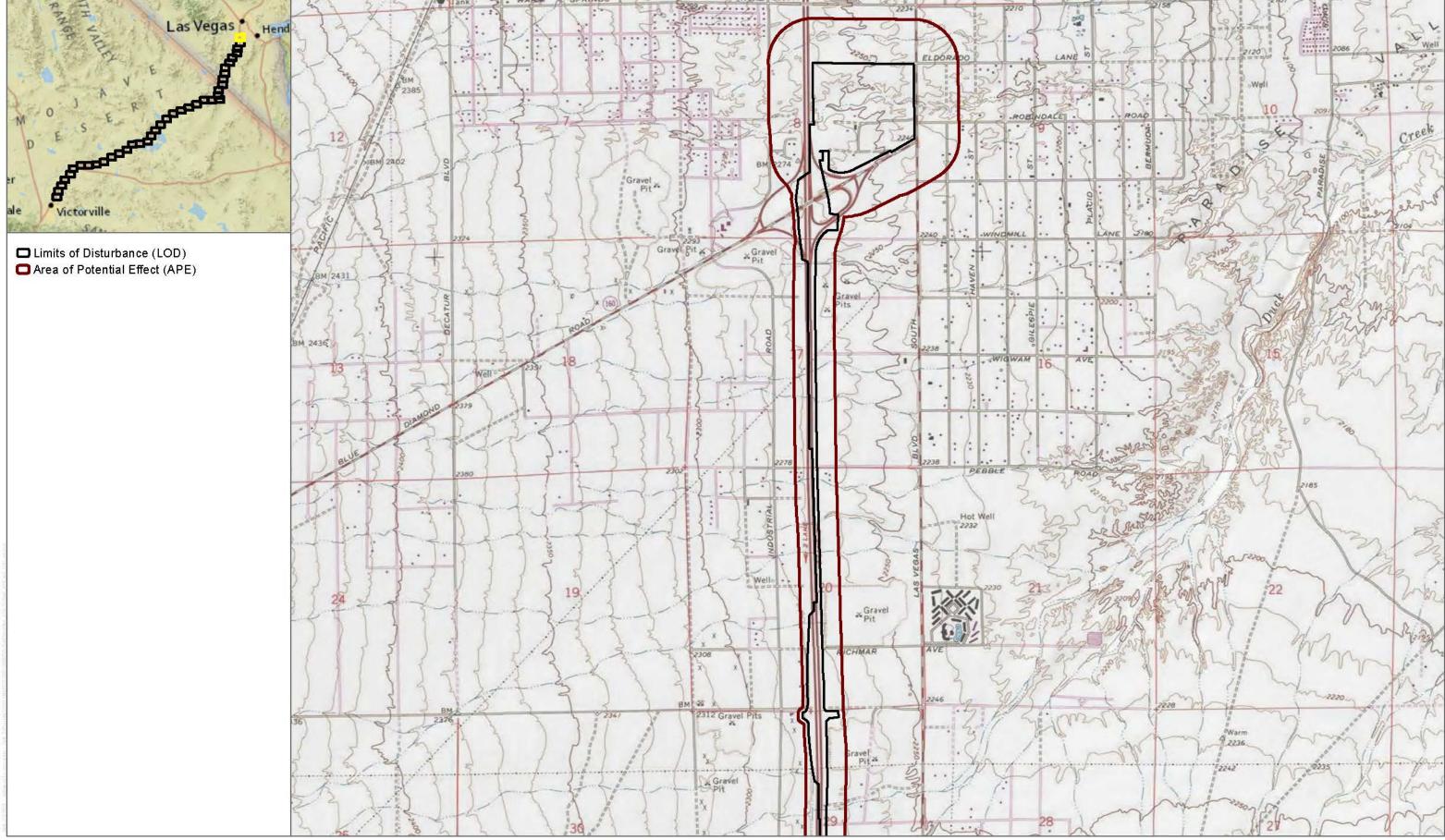
Feature/Appurtenance	Square Feet (sf)/ Linear Feet (lf)	Height (feet)	Depth (feet)	Description
Vehicle Maintenance Facility	200,000 sf	40	6-8	Single story office, material storage and train maintenance facility
Train Car Wash Building	9,000 sf	30	3-5	Single story building at grade with footings and utilities
Train Performance Monitoring Station	25 sf	10	3-5	Single story pad mounted equipment
Operations Control Center Building	8,000 sf	20	3-5	Single story building at grade
Power Substation	5.6 acres/ 244,000 sf	25	10	Primarily an outdoor power conversion switching facility with a series of small enclosures to house climate sensitive equipment
Distribution Lines	5,000 lf	30	10	Overhead and underground lines
Septic Fields	1 acre/44,000 sf	N/A	10	Below grade sanitary sewer system
Water Well/System	½ acre/22,000 sf	40	5	Forty feet tall fire water/domestic storage tank, pumps/filtration system, underground water piping, well depth estimated 5 feet deep

Feature/Appurtenance	Square Feet (sf)/ Linear Feet (lf)	Height (feet)	Depth (feet)	Description
Utility Connections	20,000 lf	25	10	On-site distribution of overhead and underground utilities to connect buildings and equipment
Circulation Roads	20,000 lf	N/A	2	Asphalt and unpaved surface roads for site circulation and track inspection
Site Control	200 sf	10	2-3	Single story guard house and control gates at entry point to site
Fencing	25,000 lf	10	2	Entire site perimeter will be fences for security with post depths of two feet
Parking	180,000 sf	N/A	2-3	Paved surface parking lot

References

FRA (Federal Railroad Administration). 2020. Final National Environmental Policy Act Reevaluation for the DesertXpress Enterprises, LLC XpressWest High-Speed Passenger Train Victorville, California to Las Vegas, Nevada. U.S. Department of Transportation, Federal Railroad Administration, Washington, DC. July.

Appendix A Area of Potential Effects

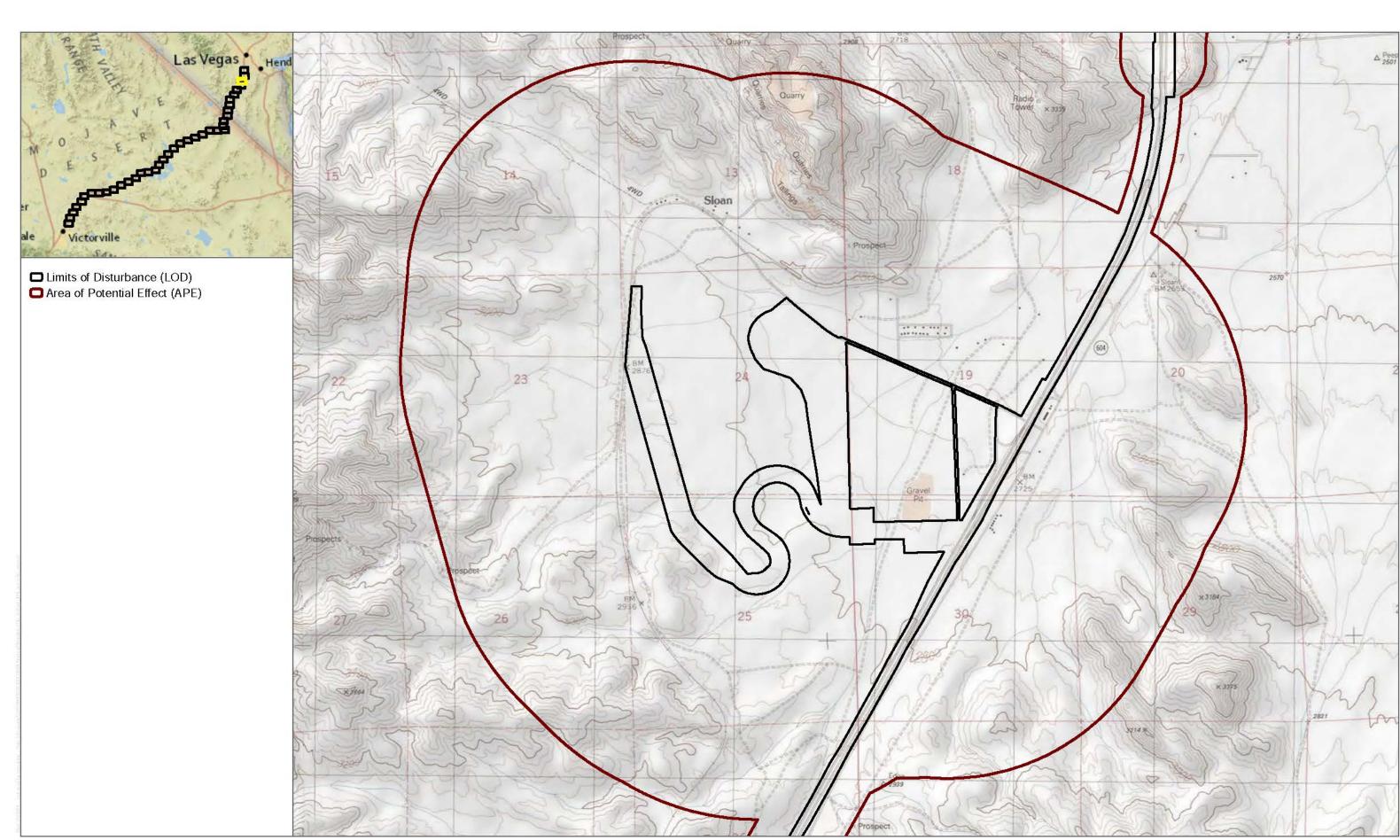


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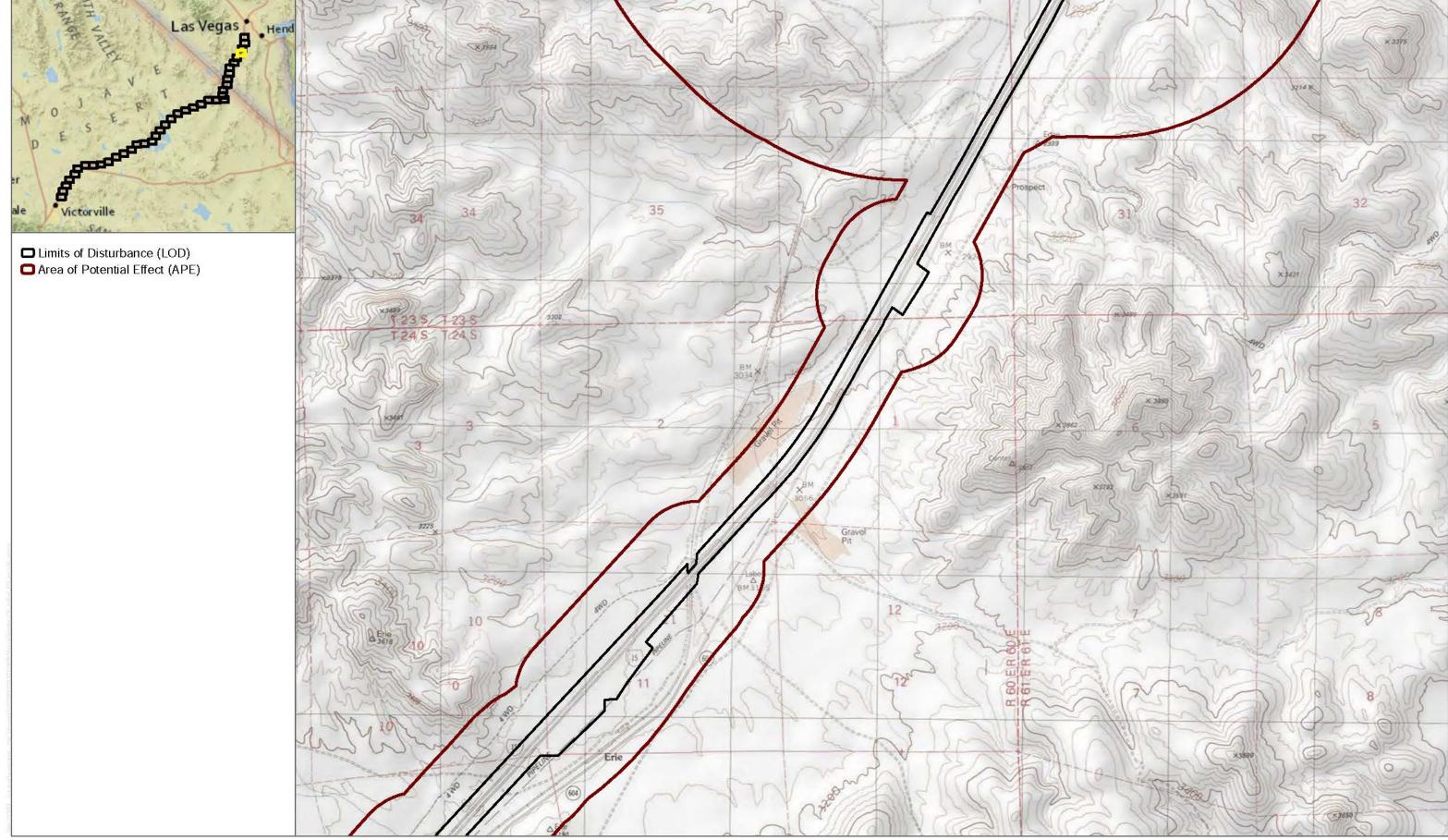
Area of Potential Effect - First Amendment



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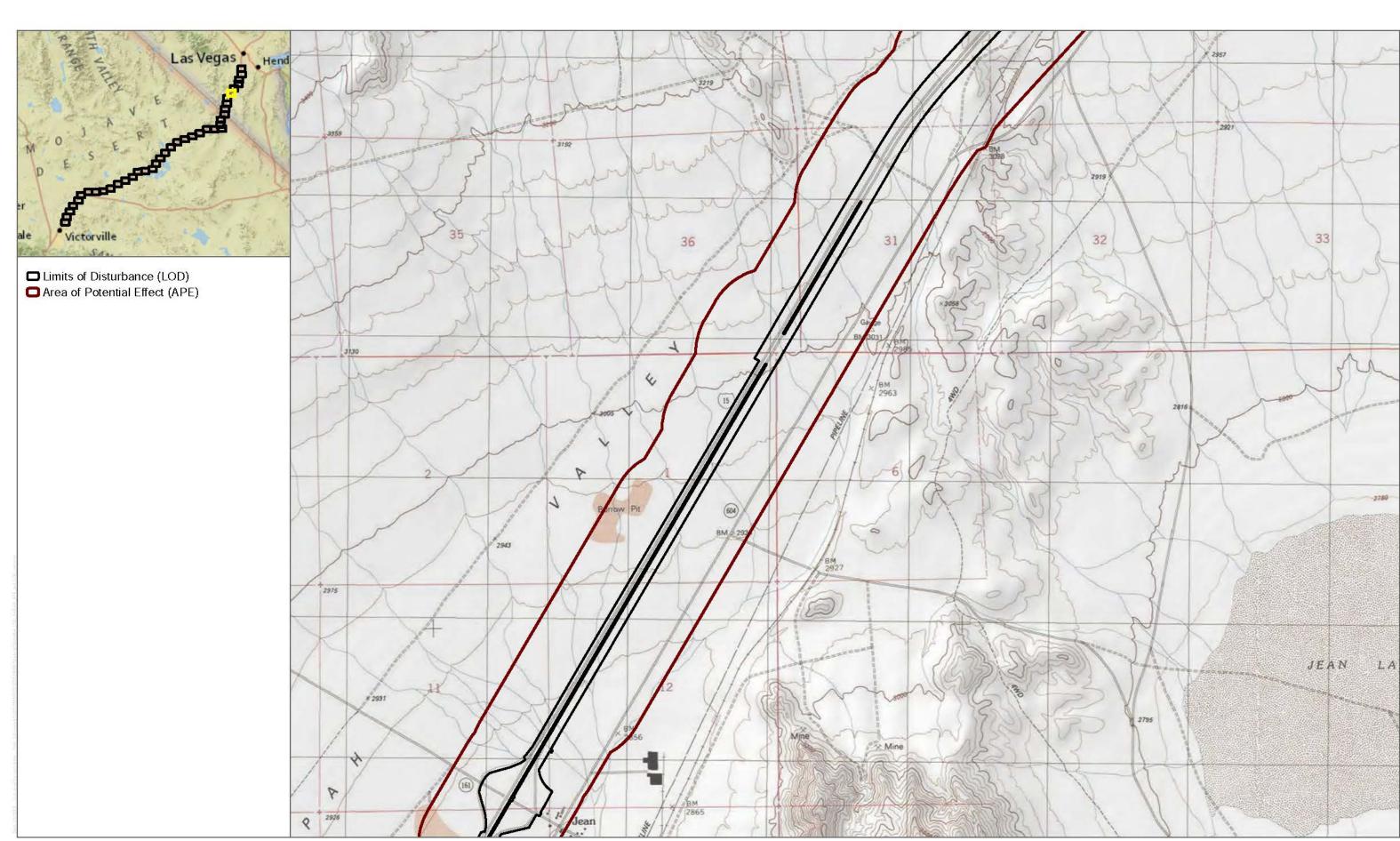
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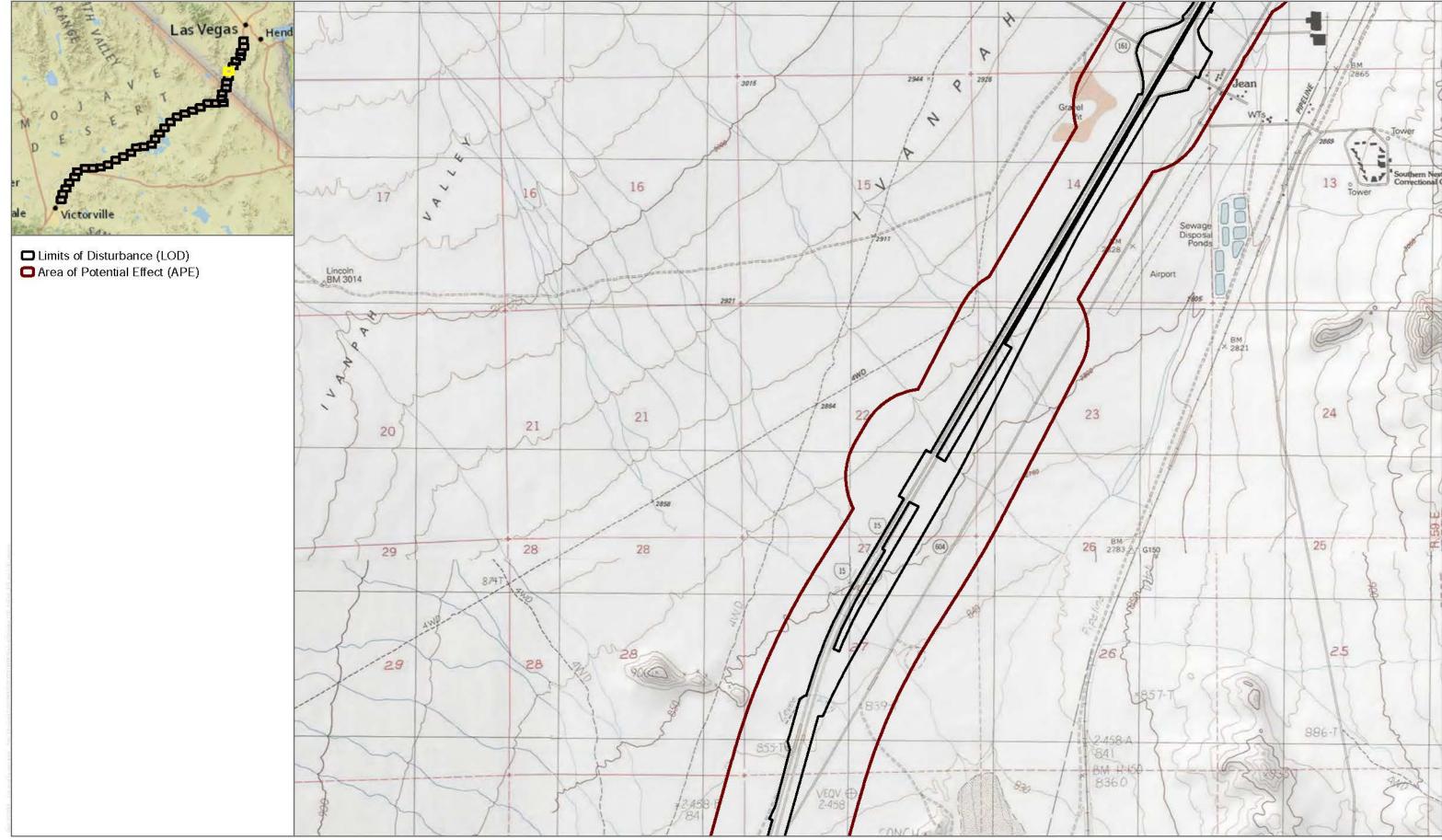
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DUDEK 6 1,000 2,000 Pe



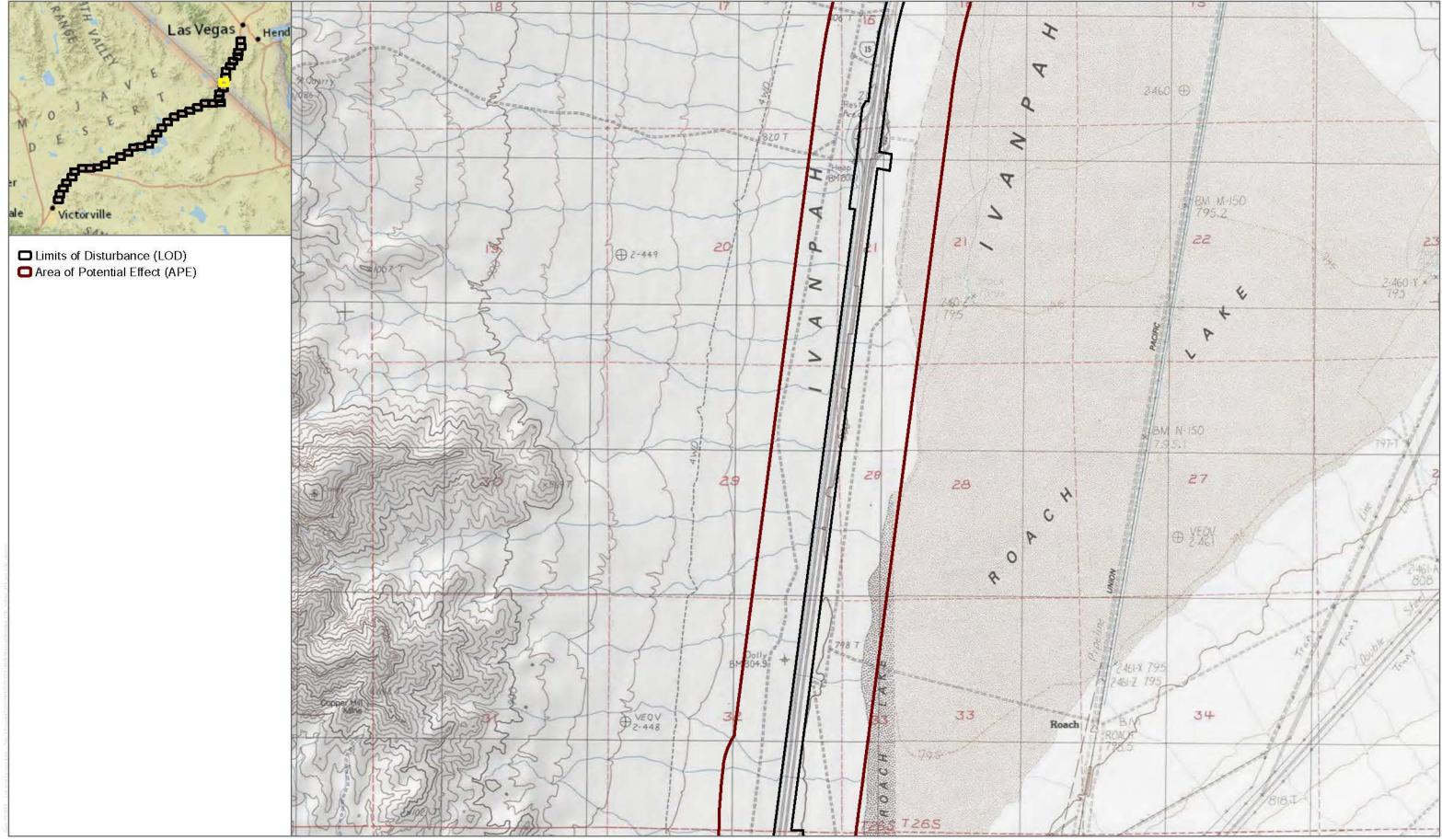
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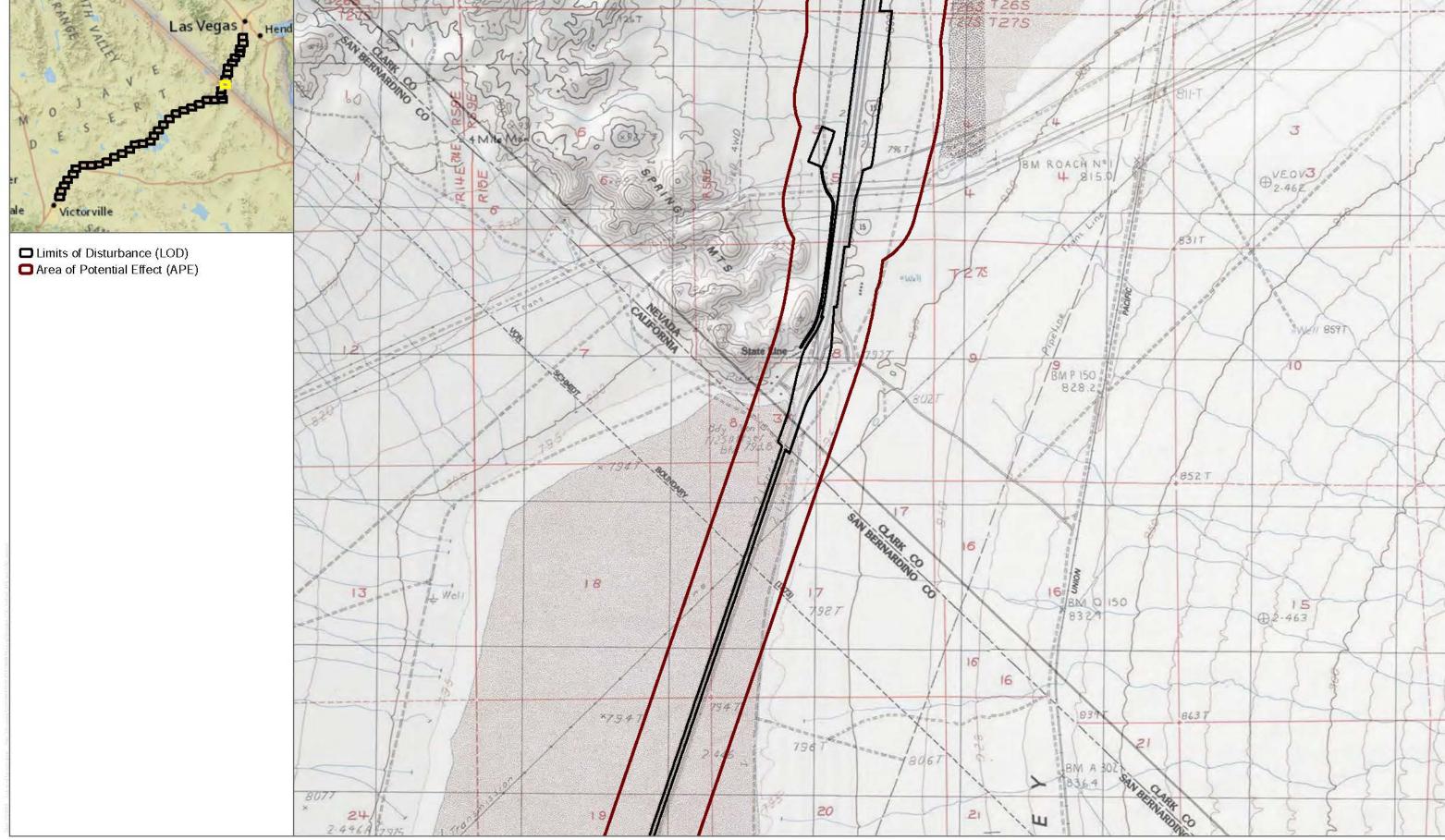
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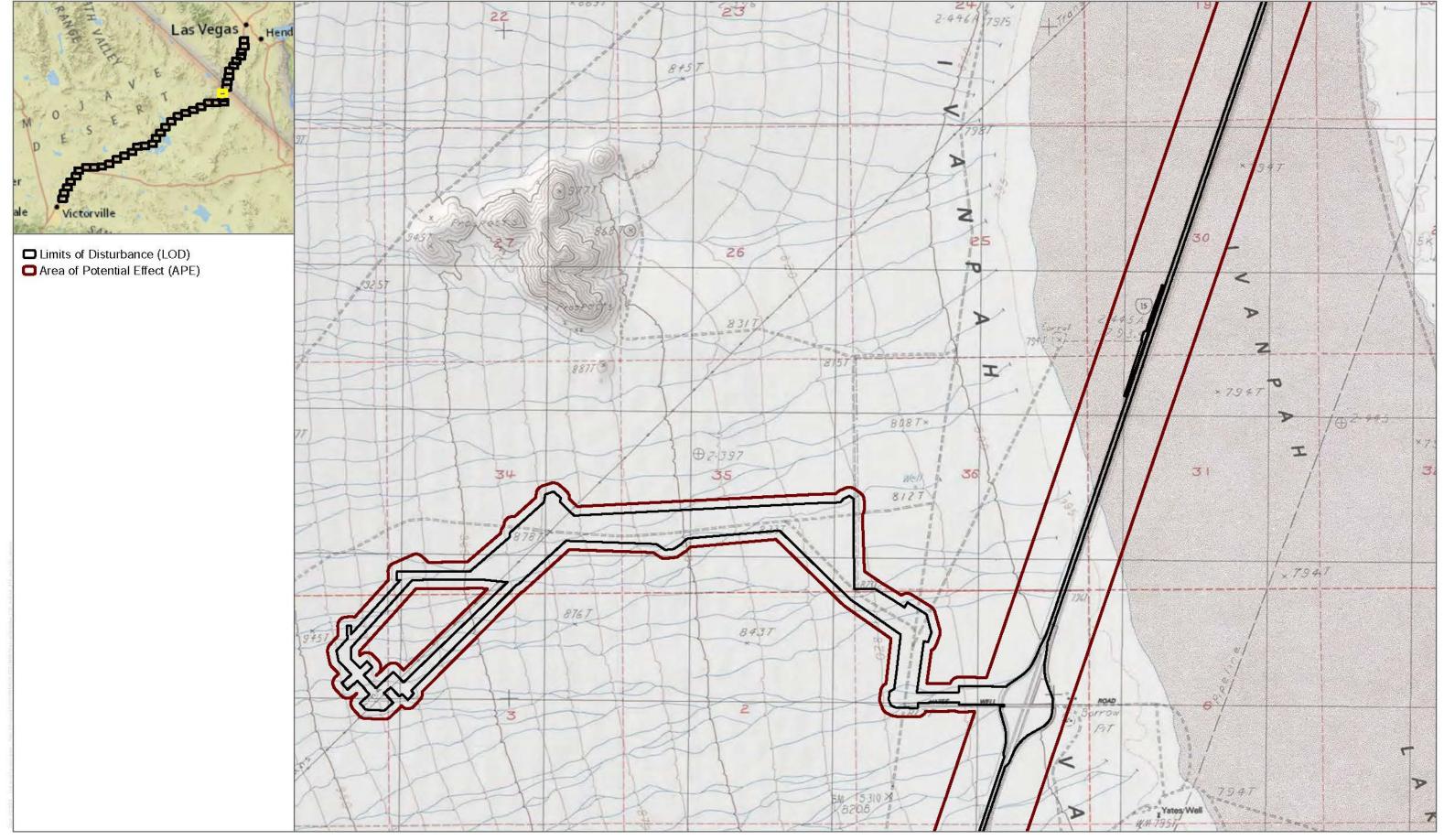
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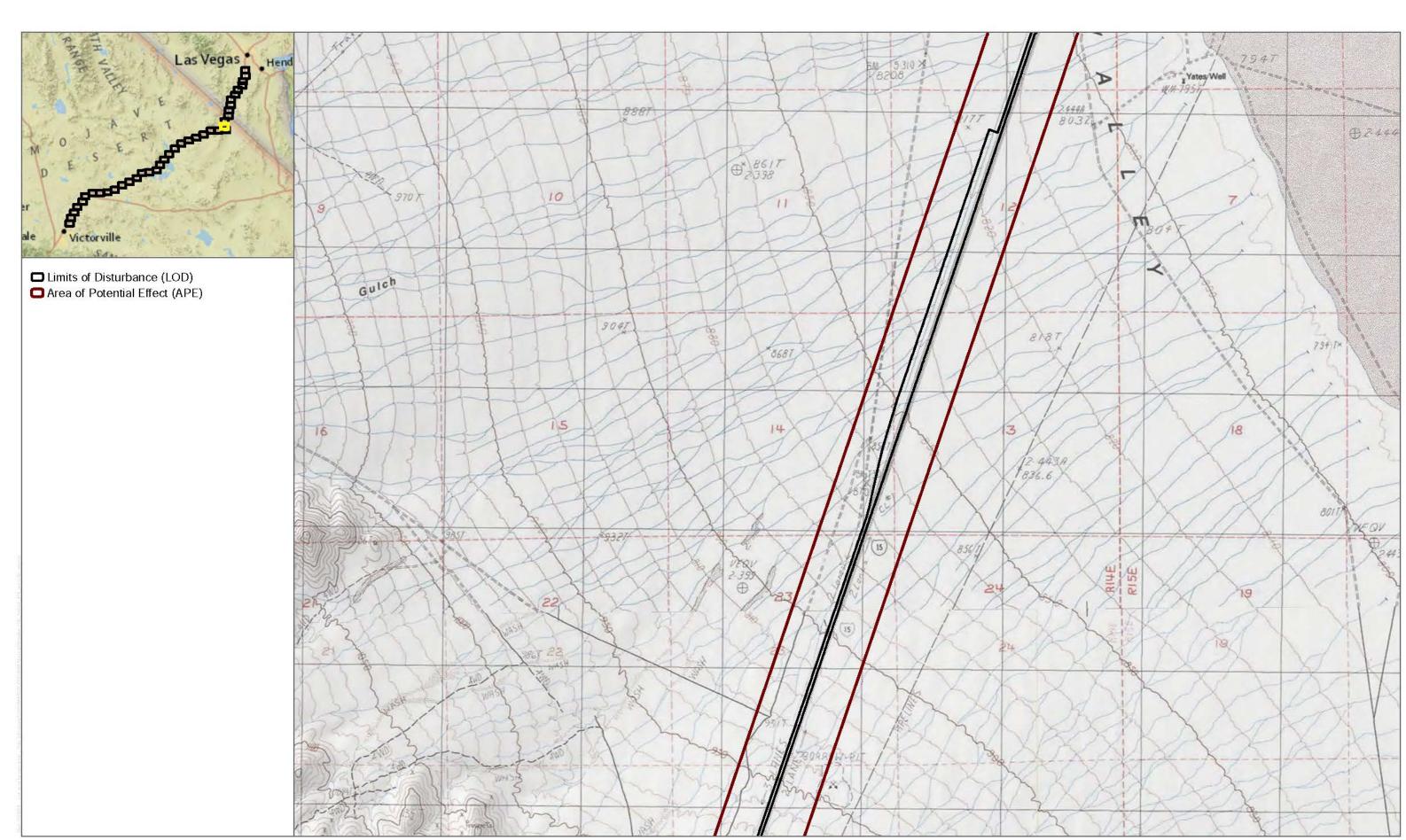
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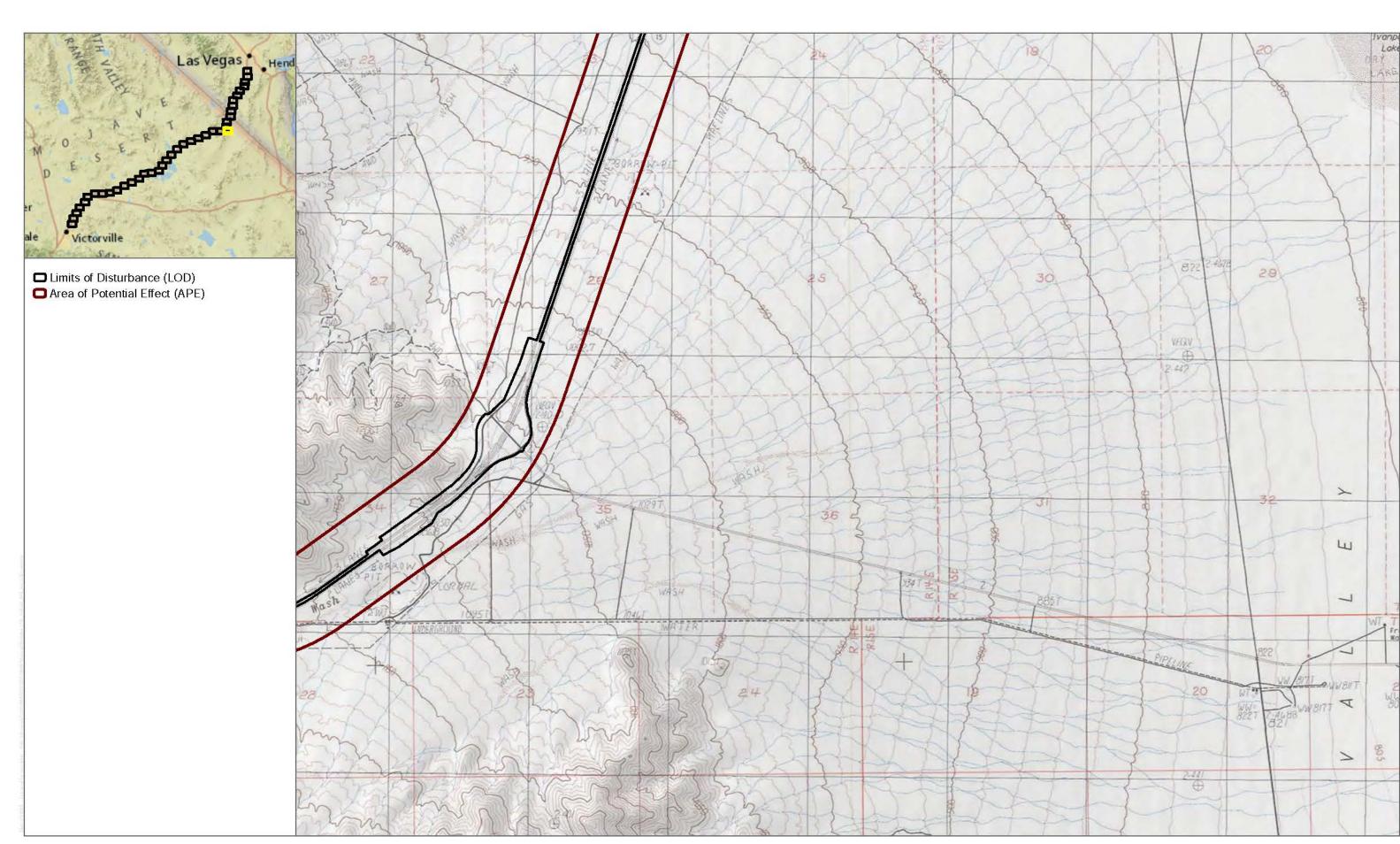


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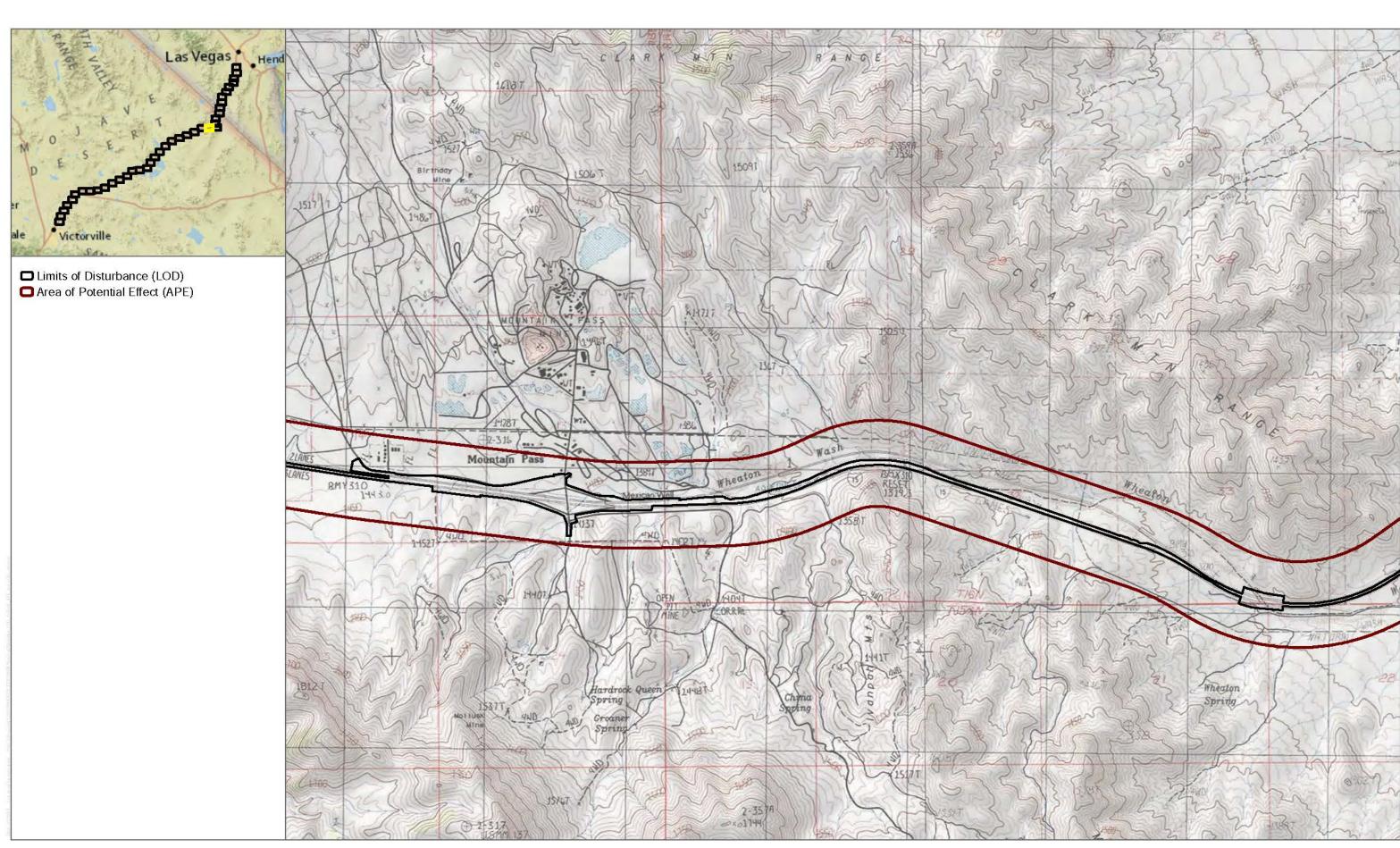


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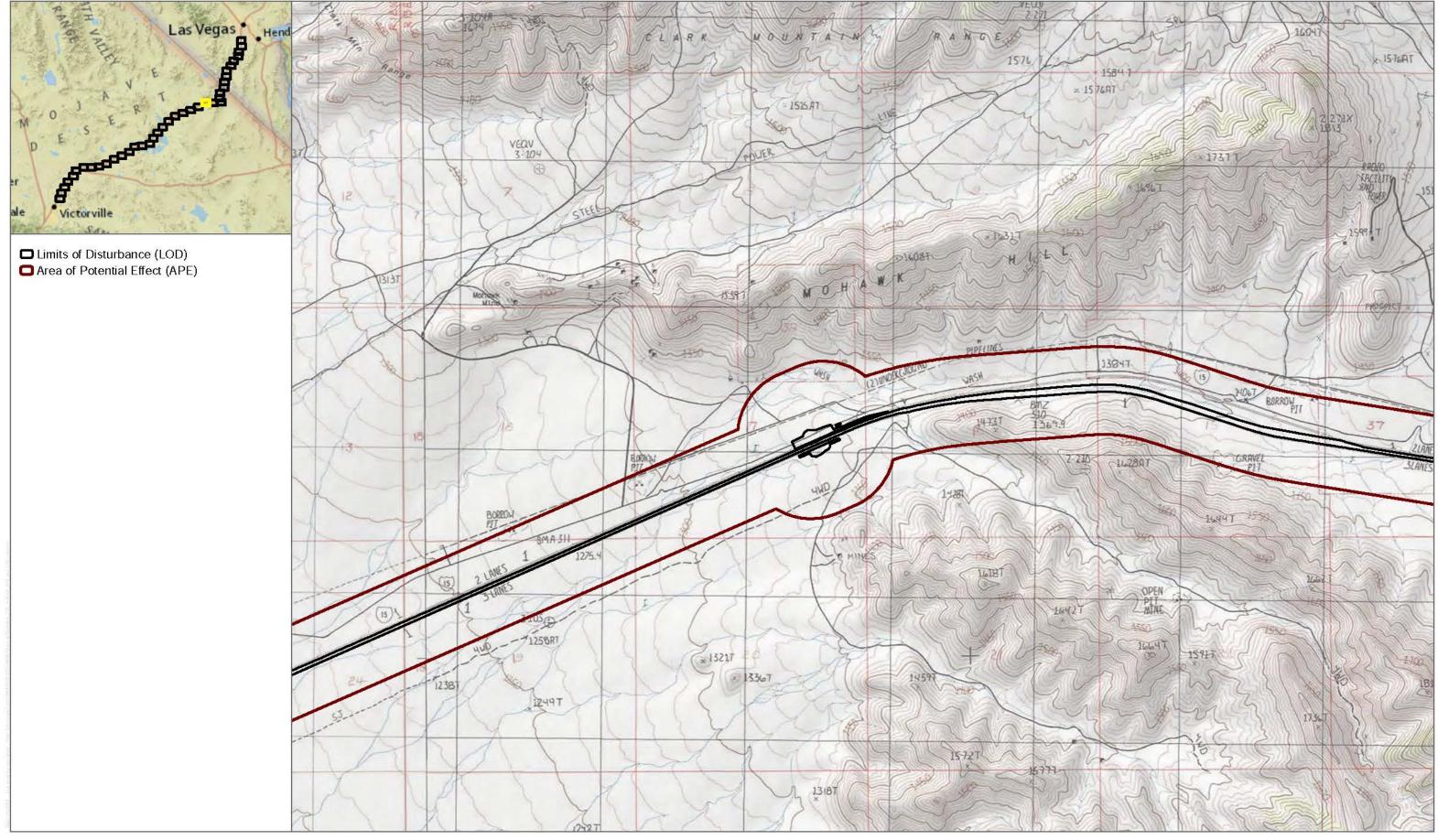




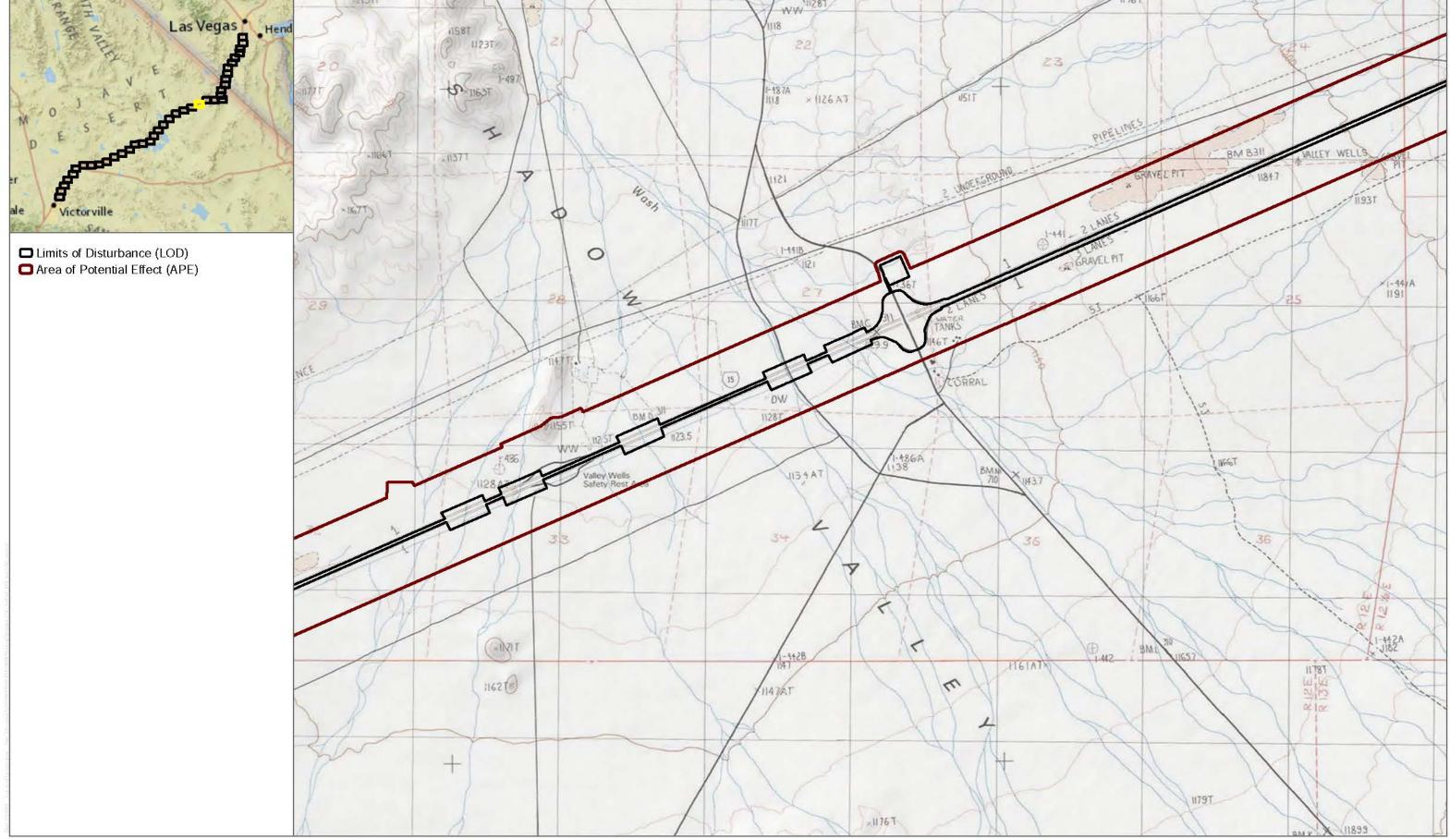
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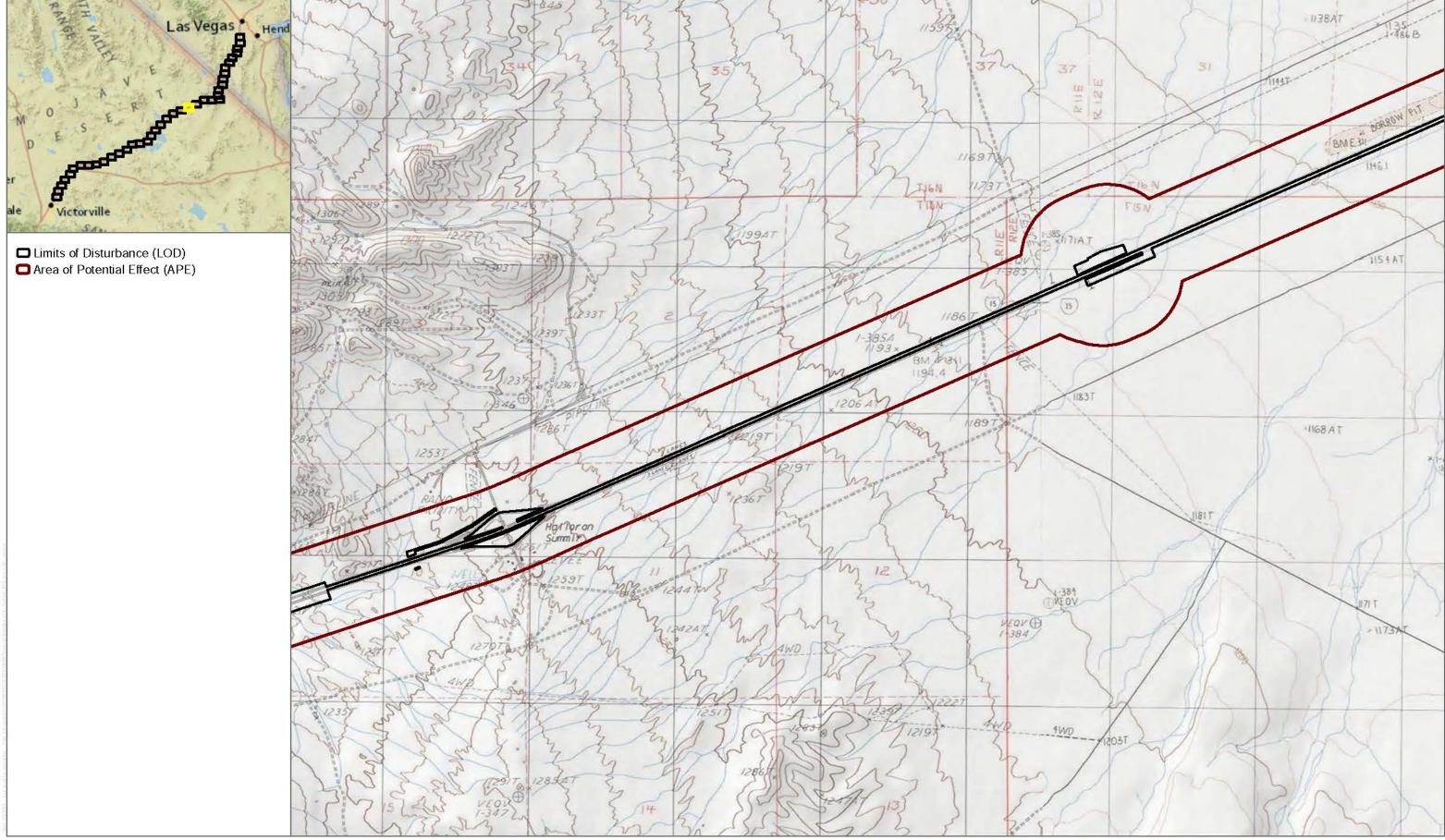
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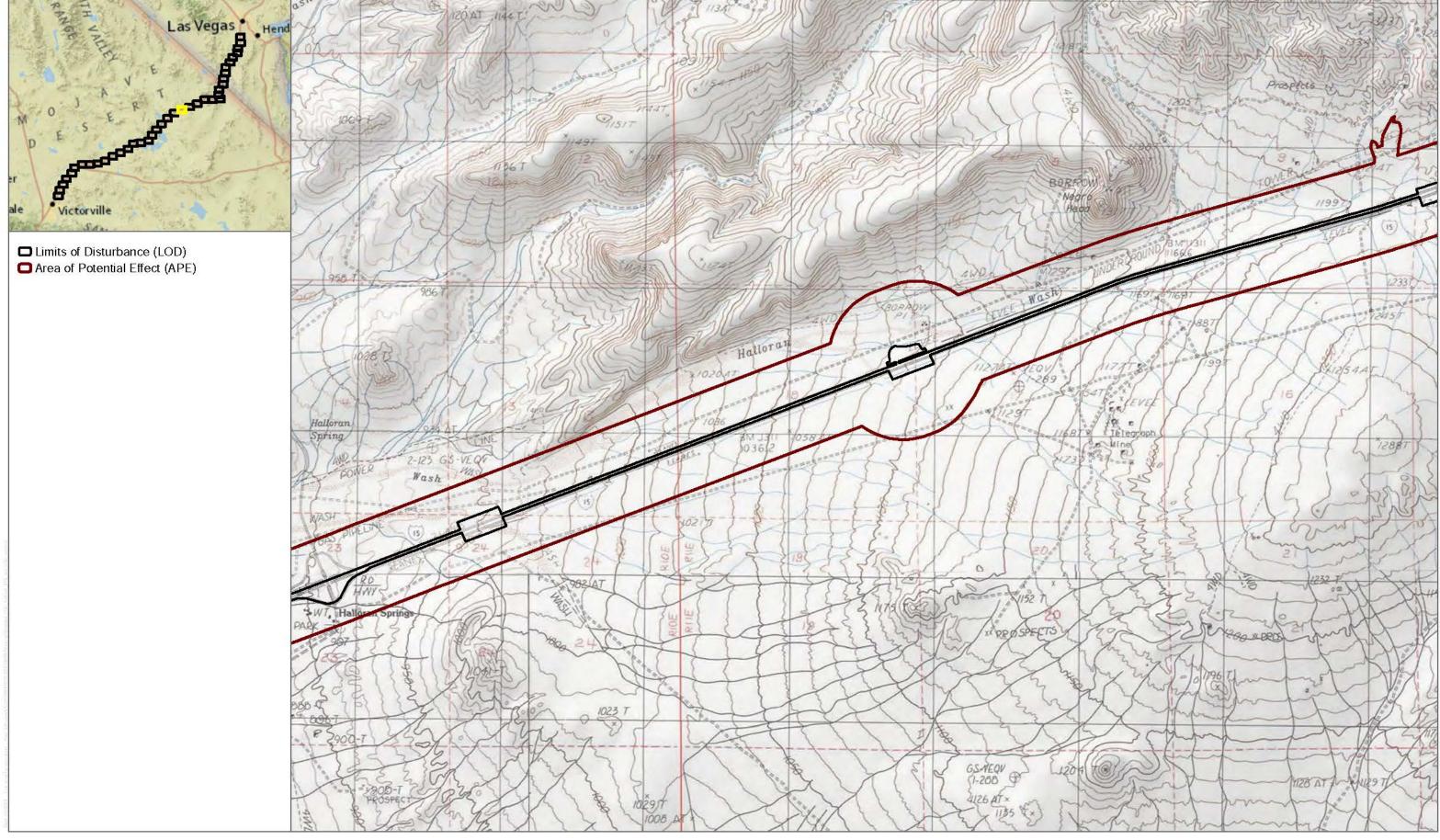
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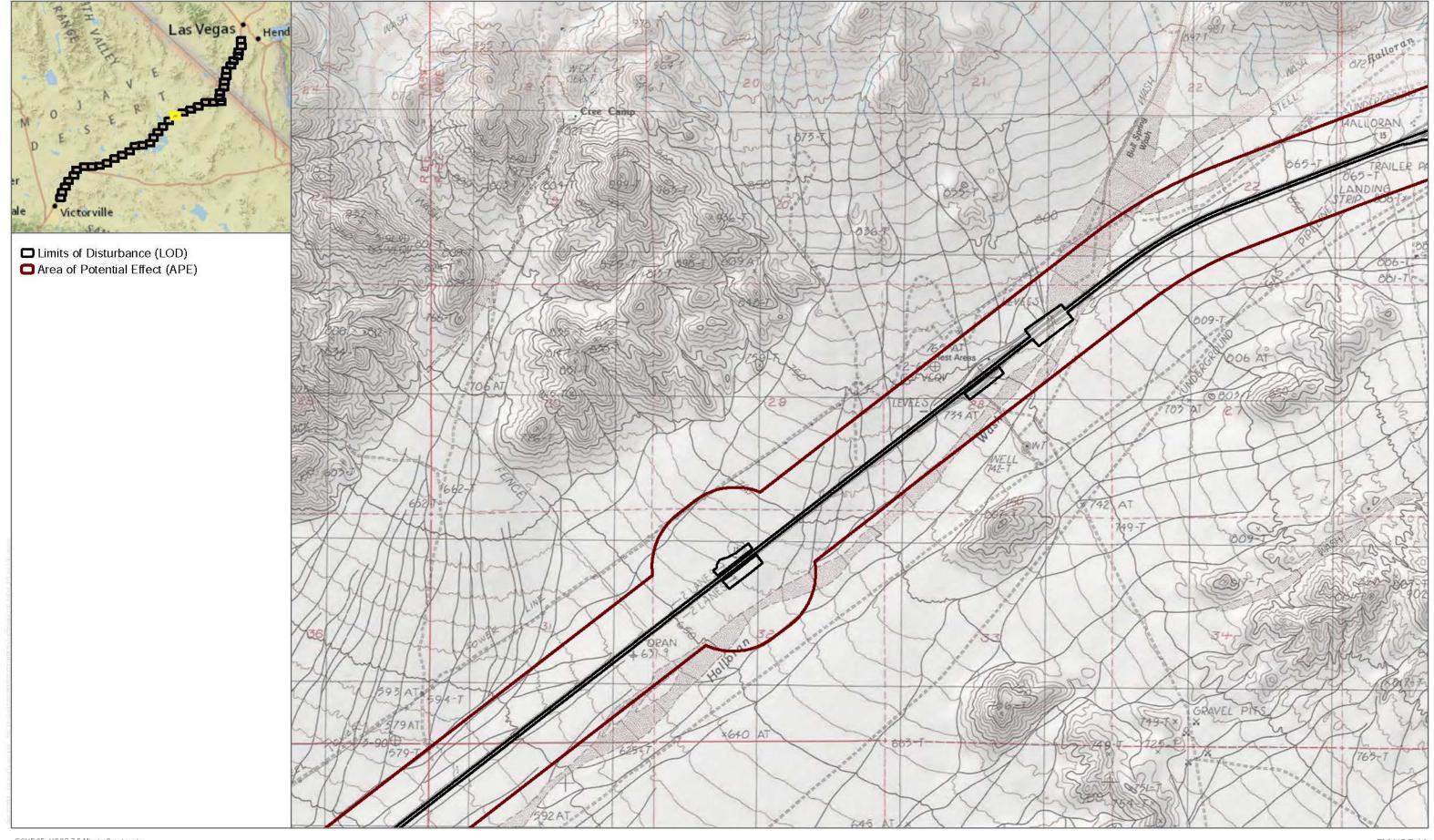
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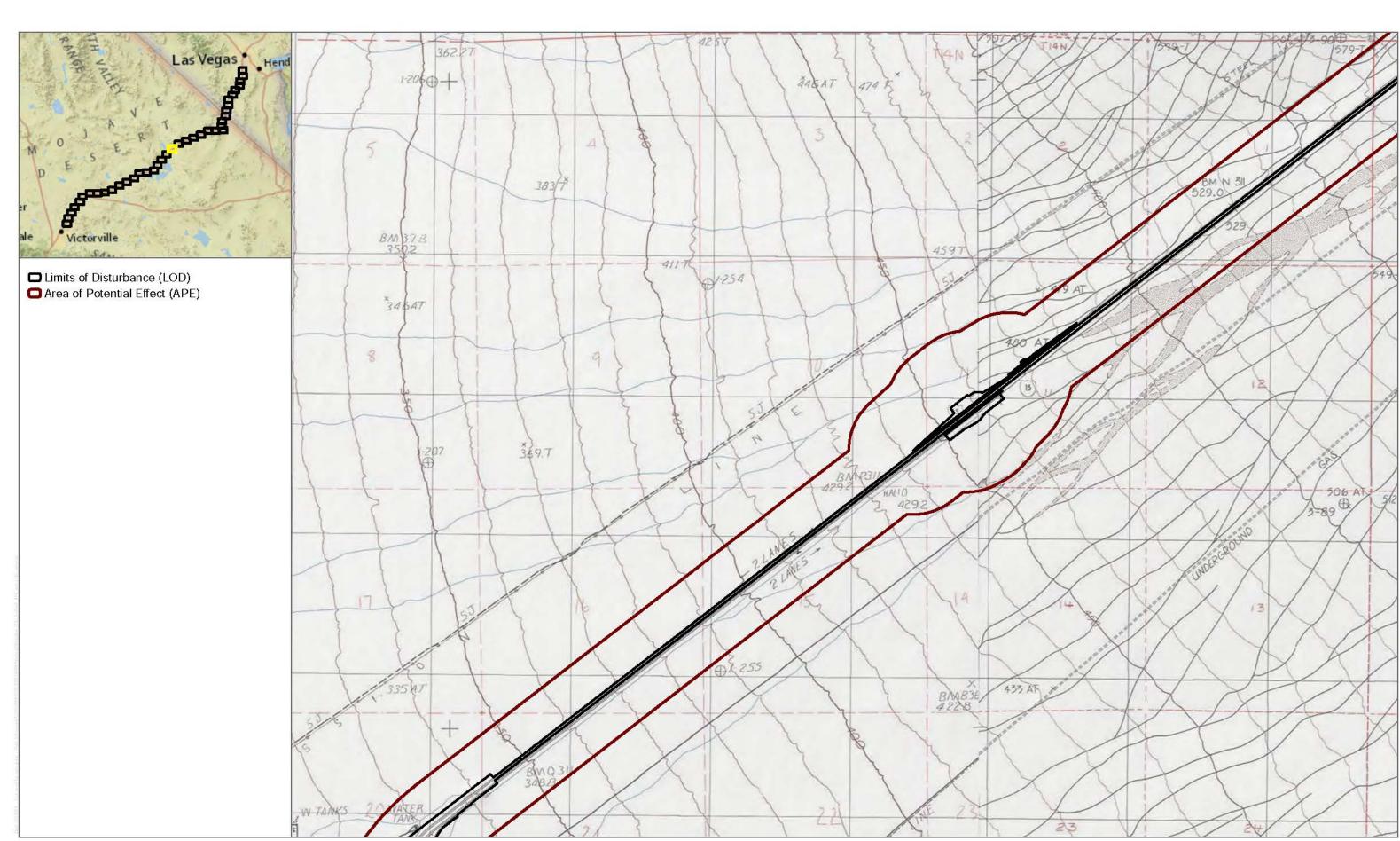
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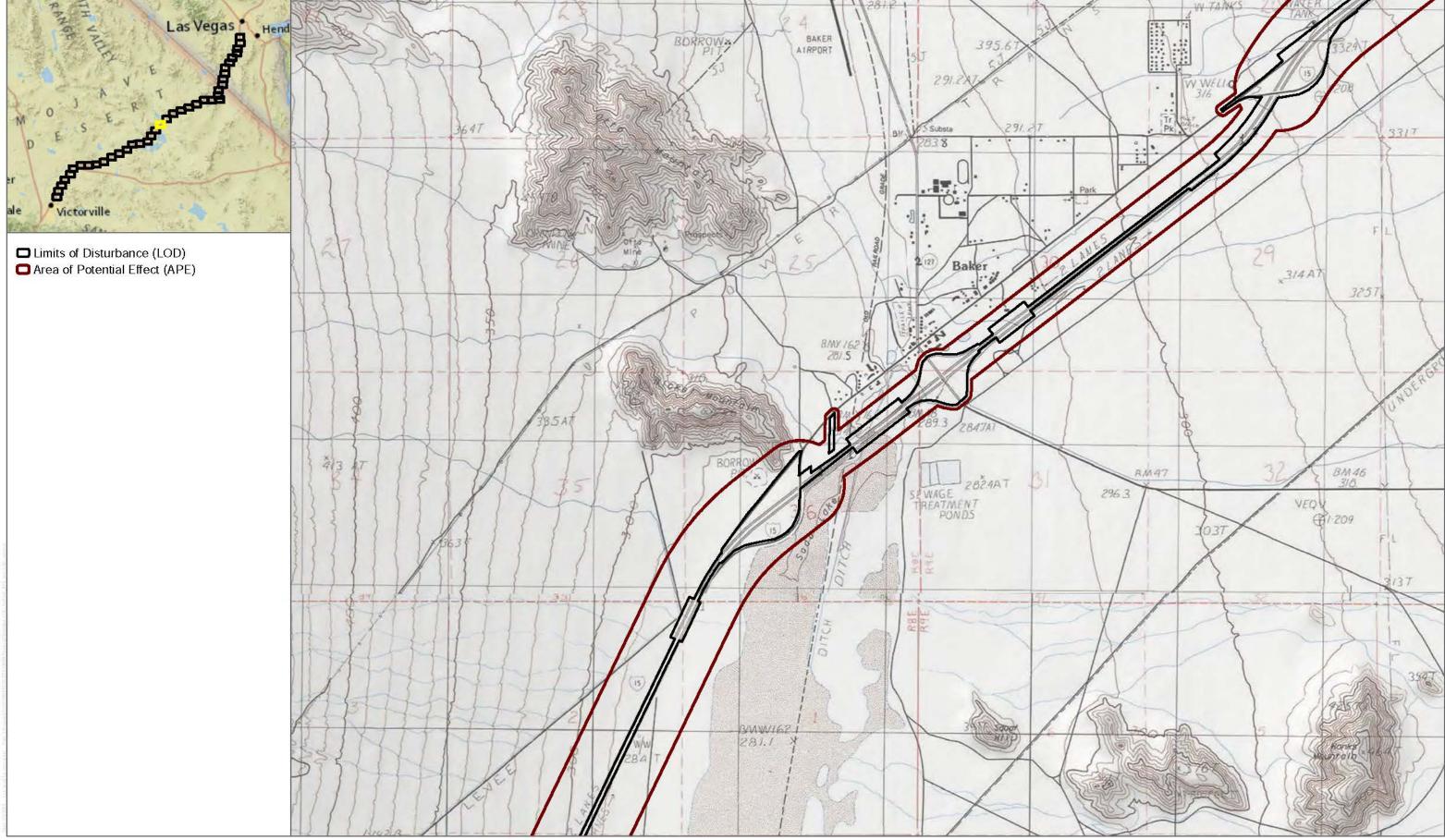
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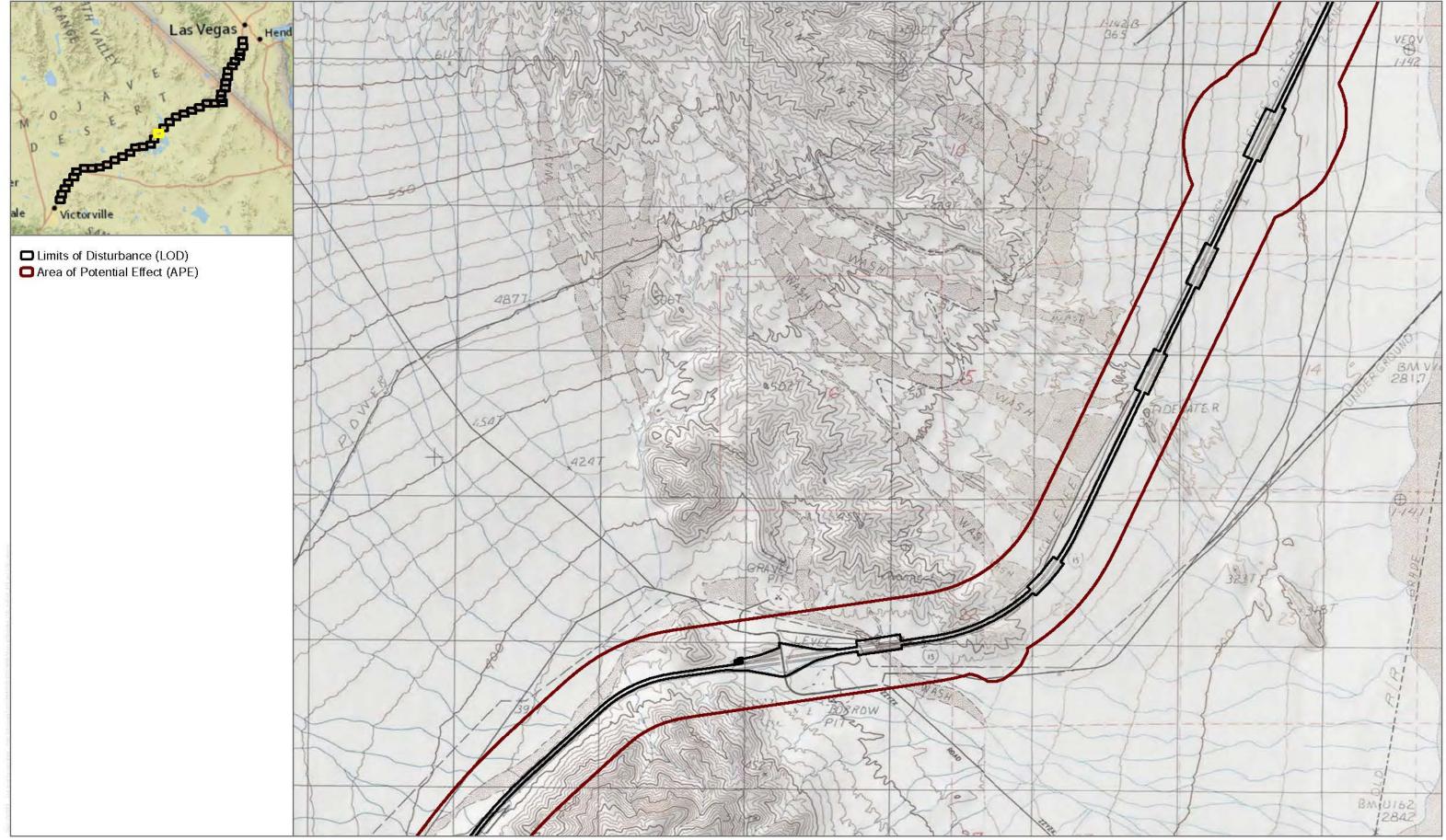
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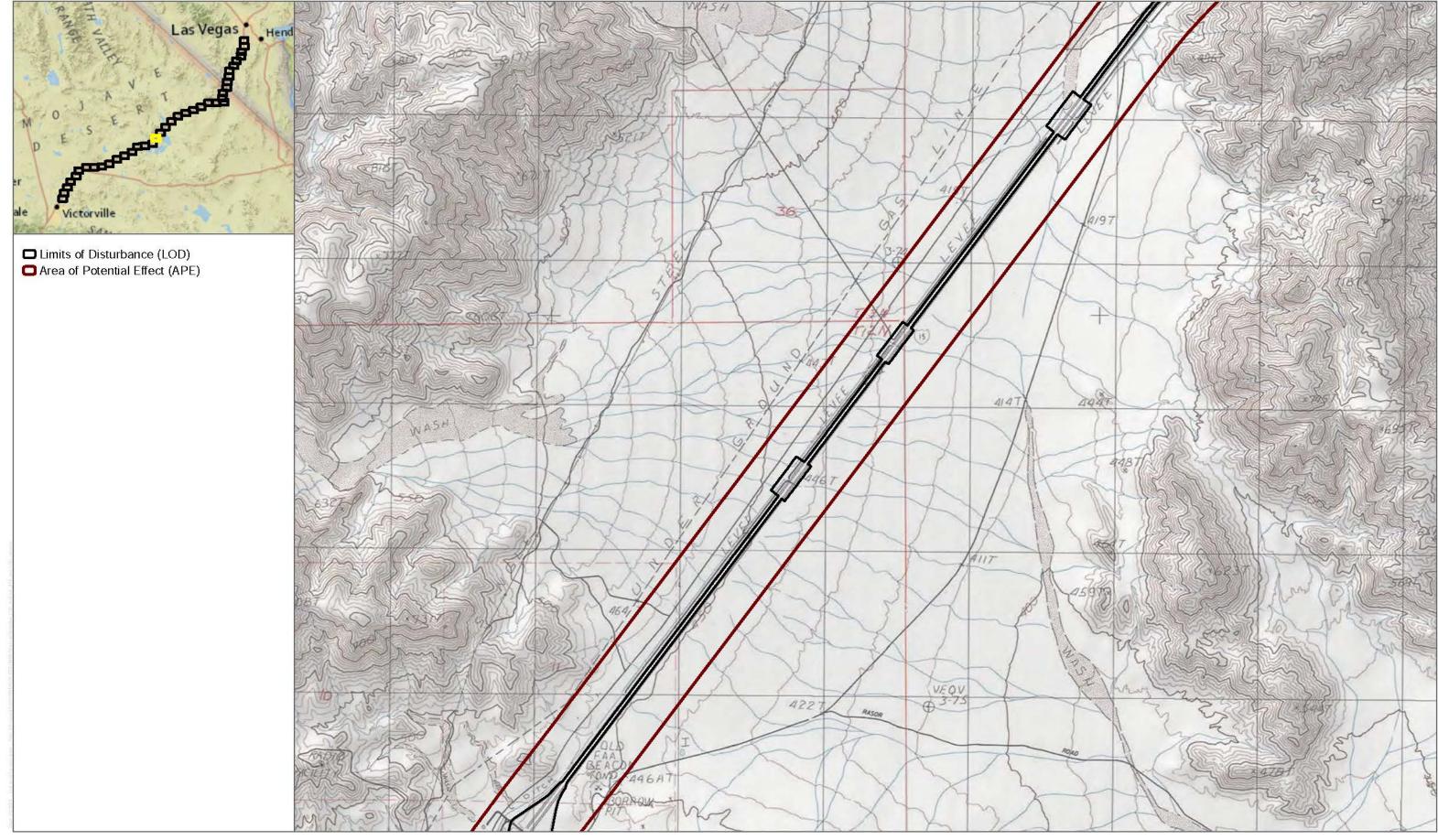
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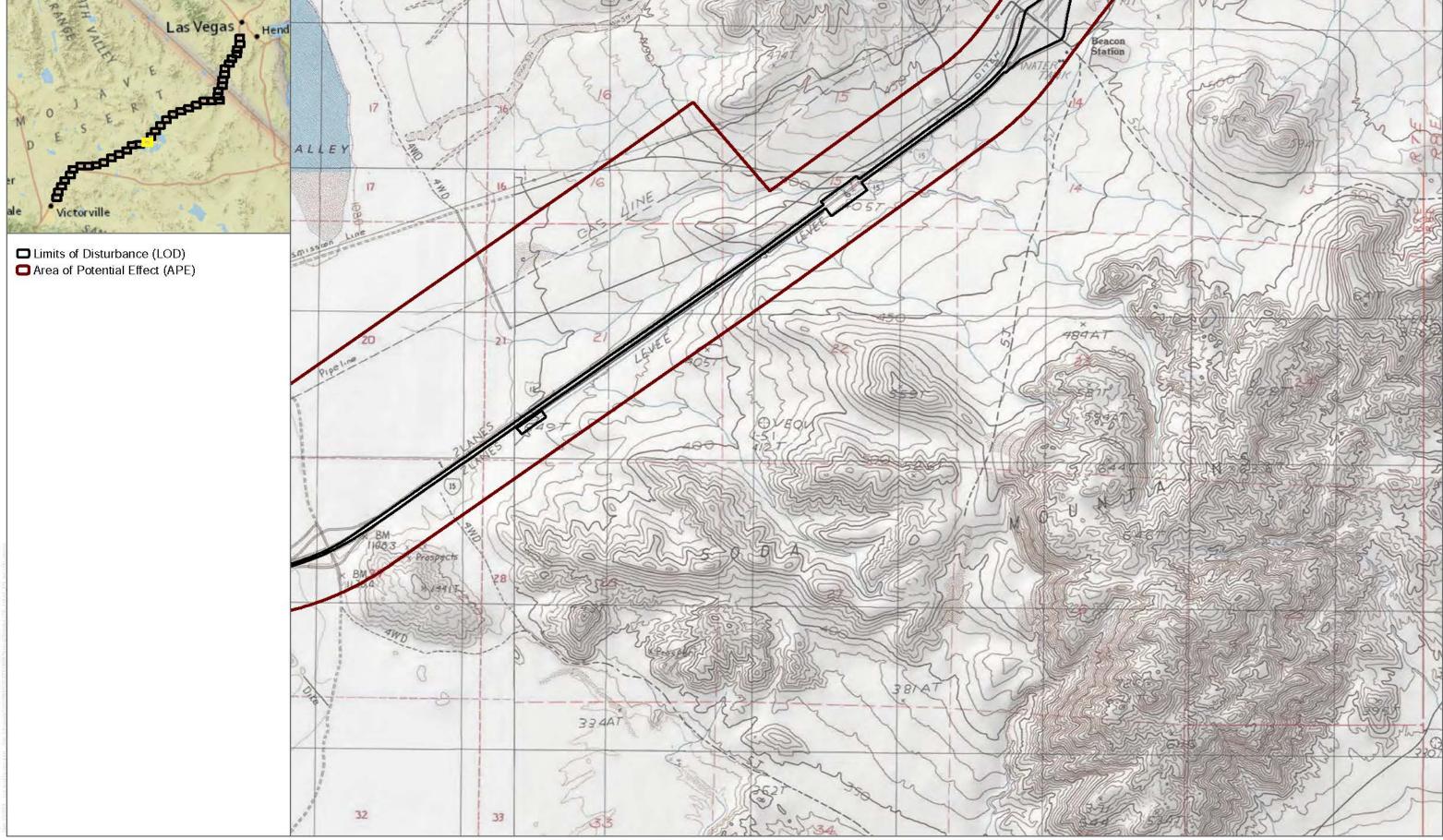
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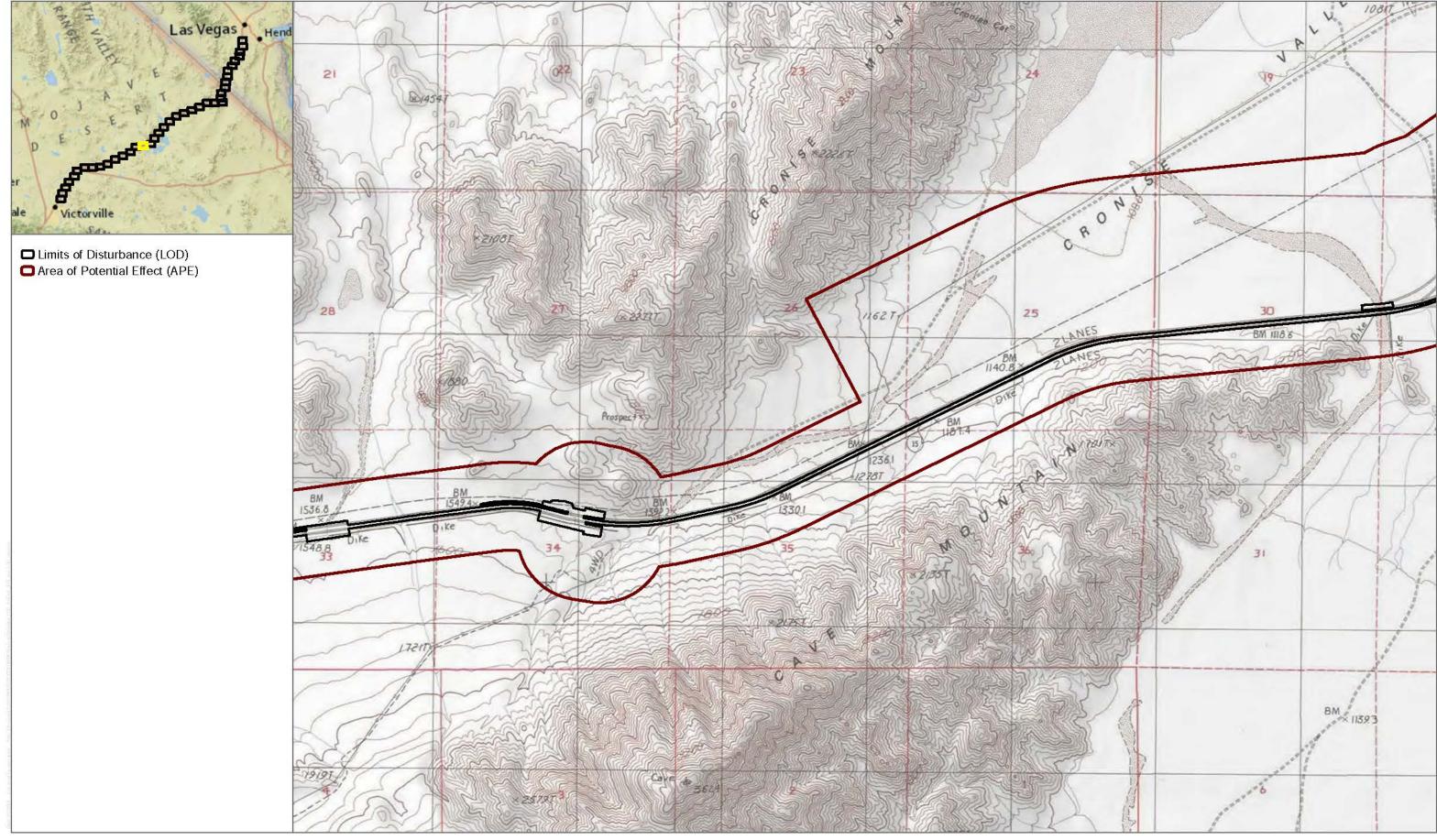
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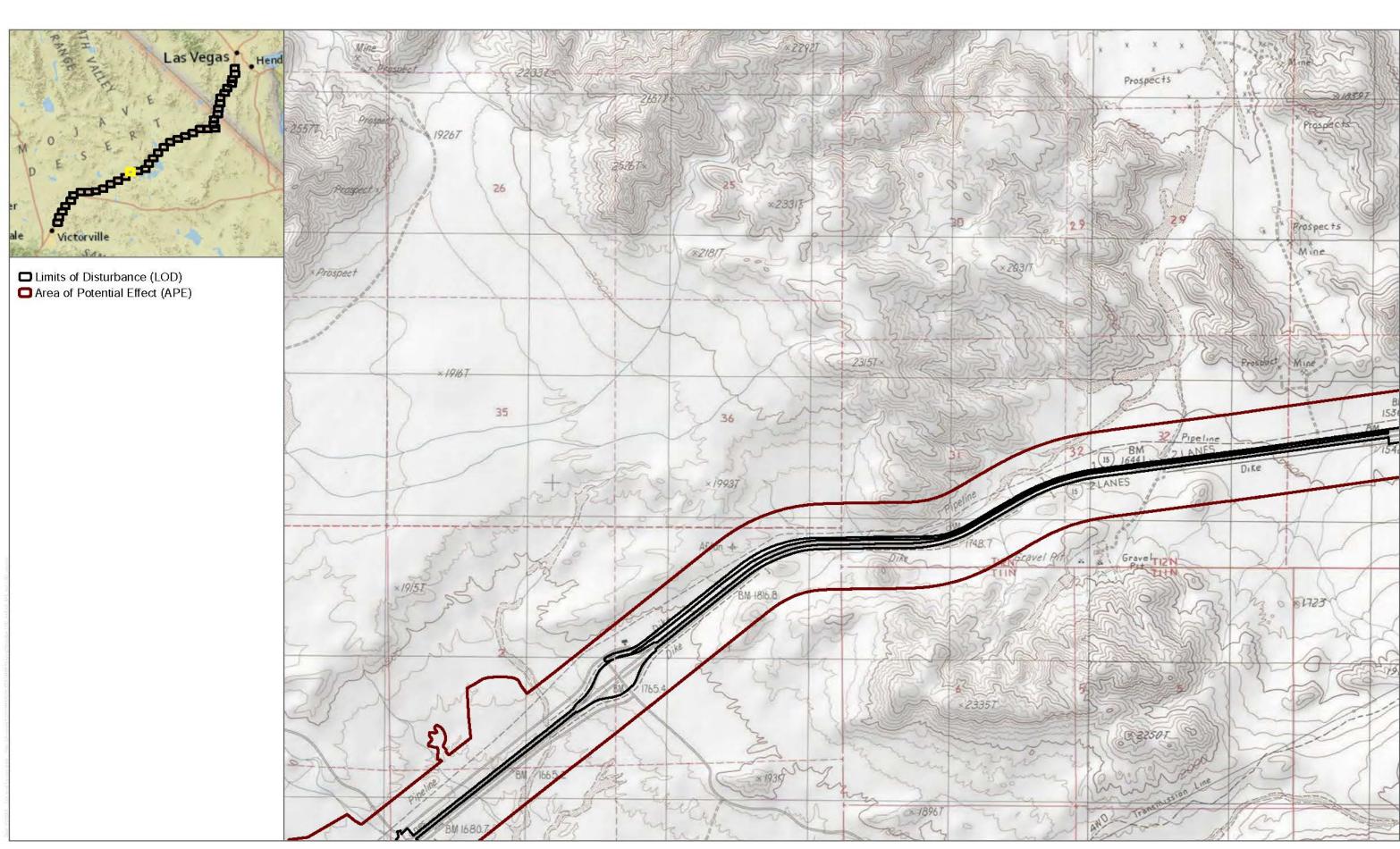
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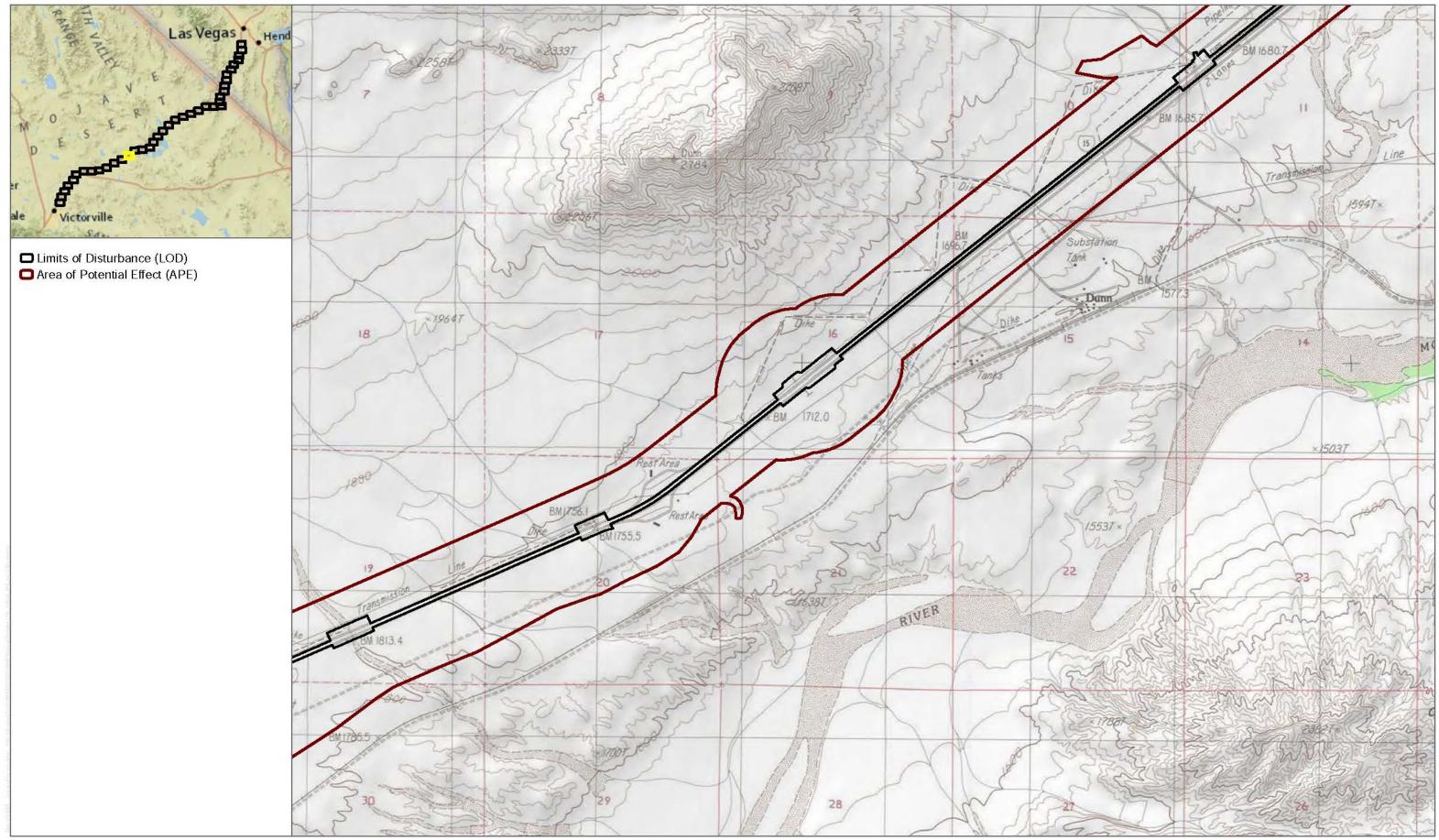
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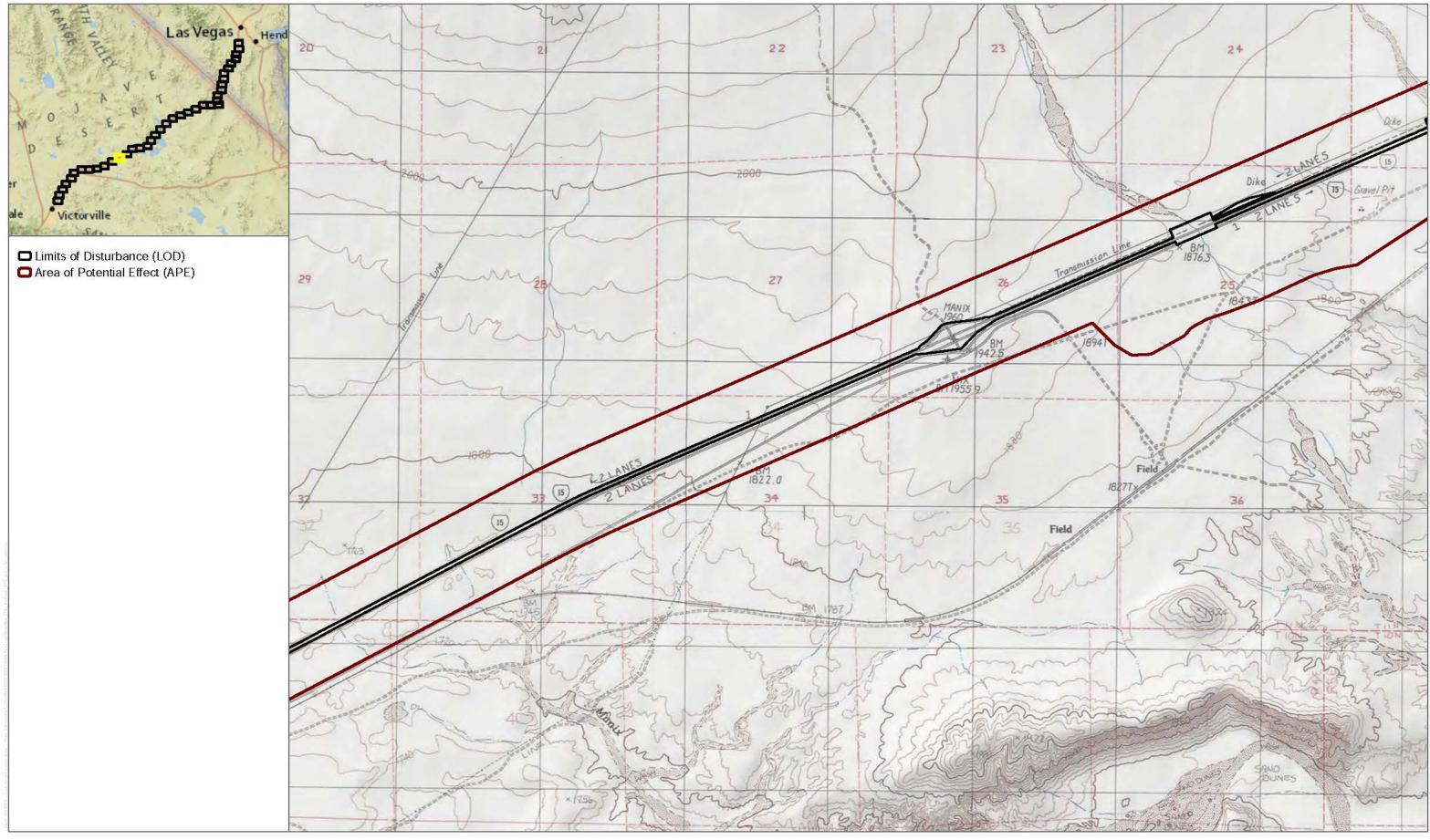
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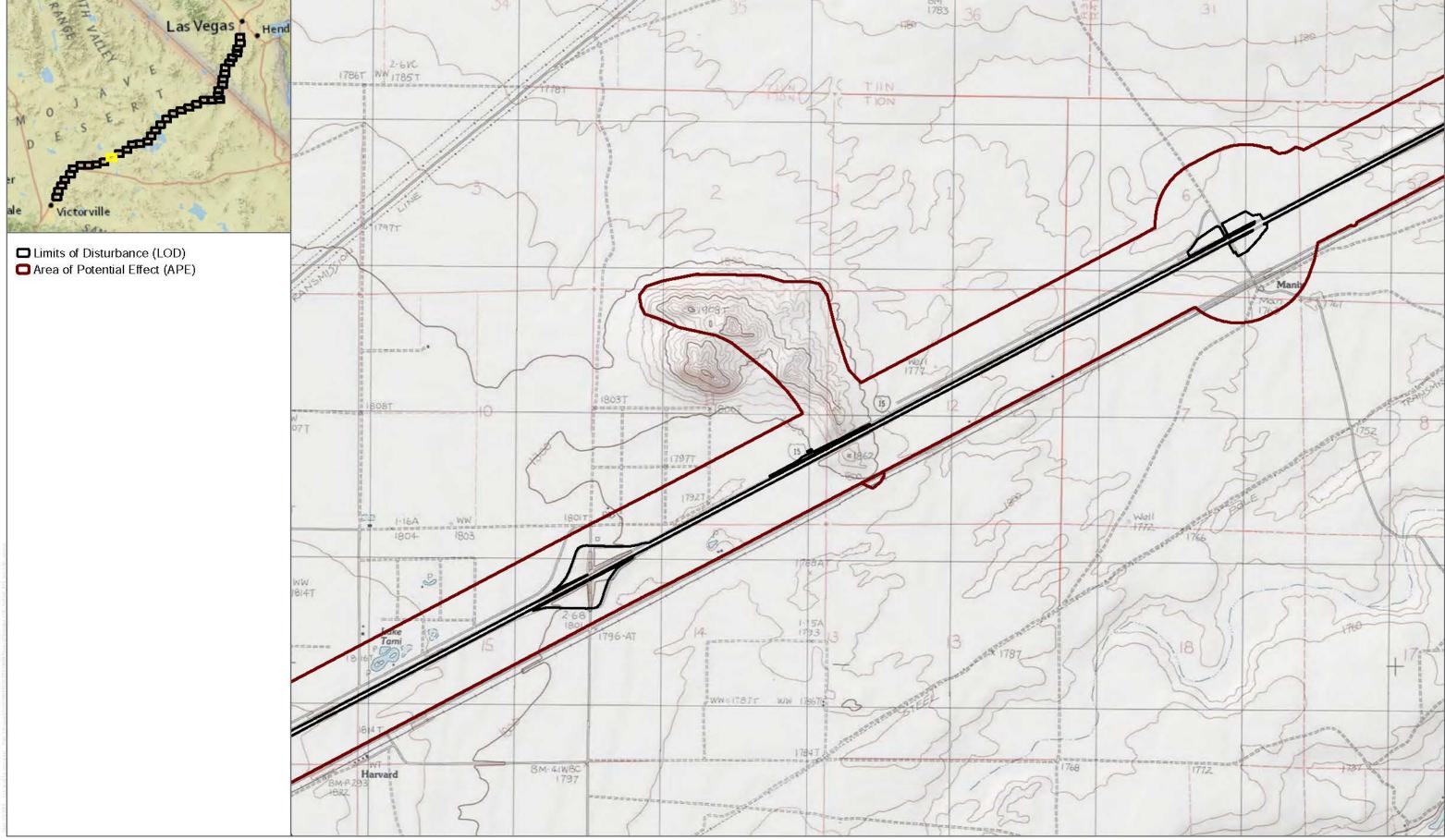
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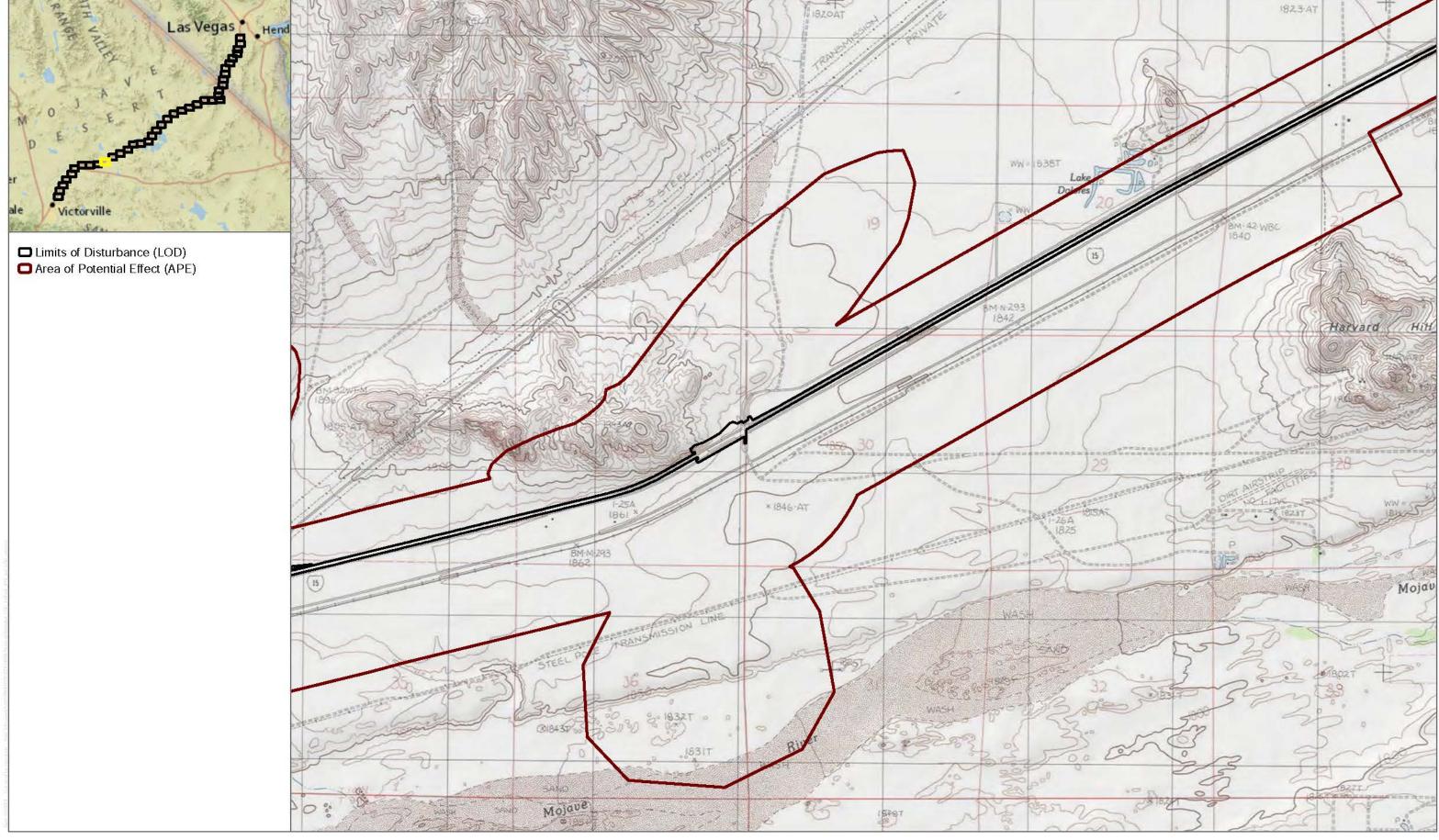
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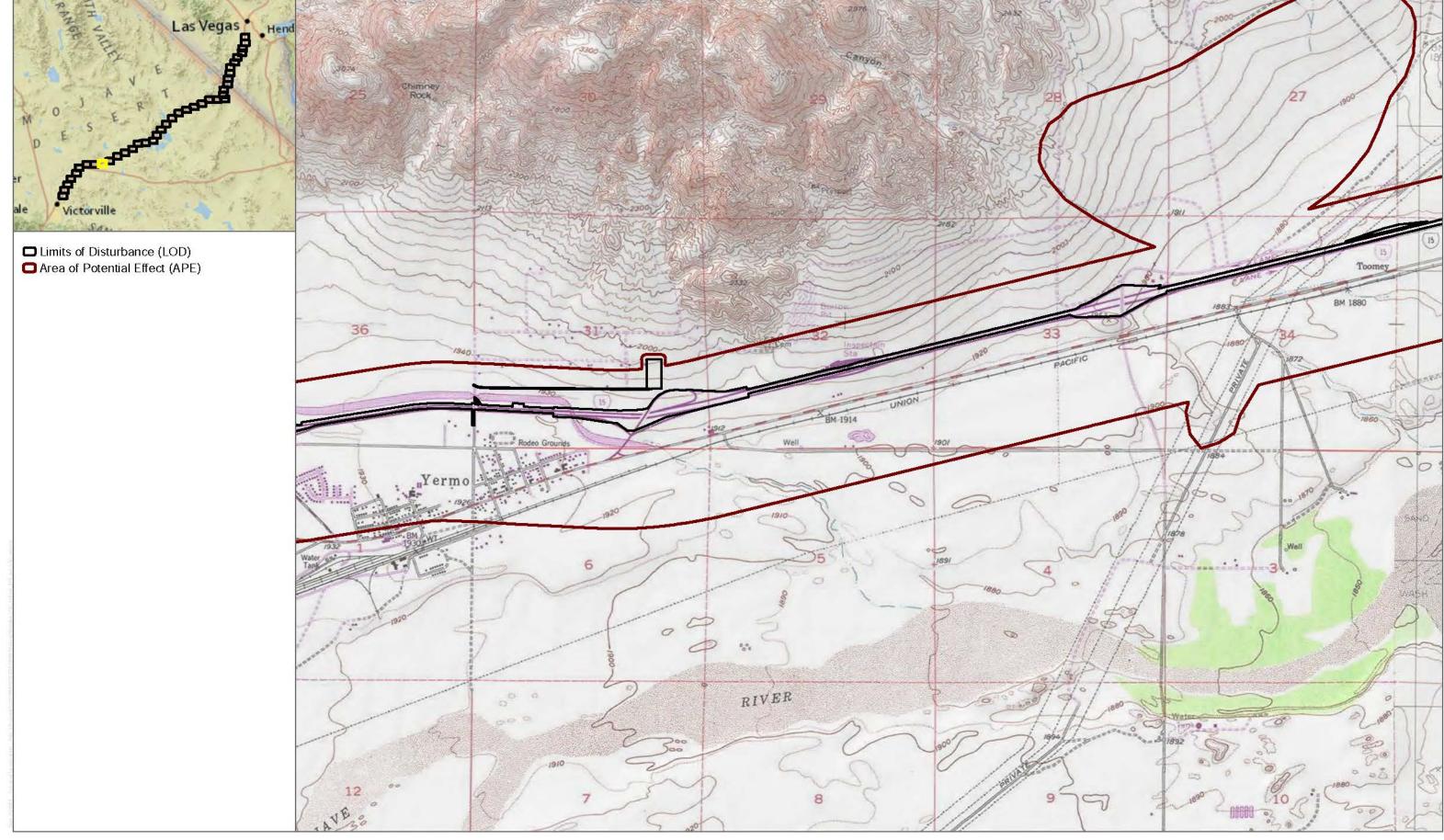
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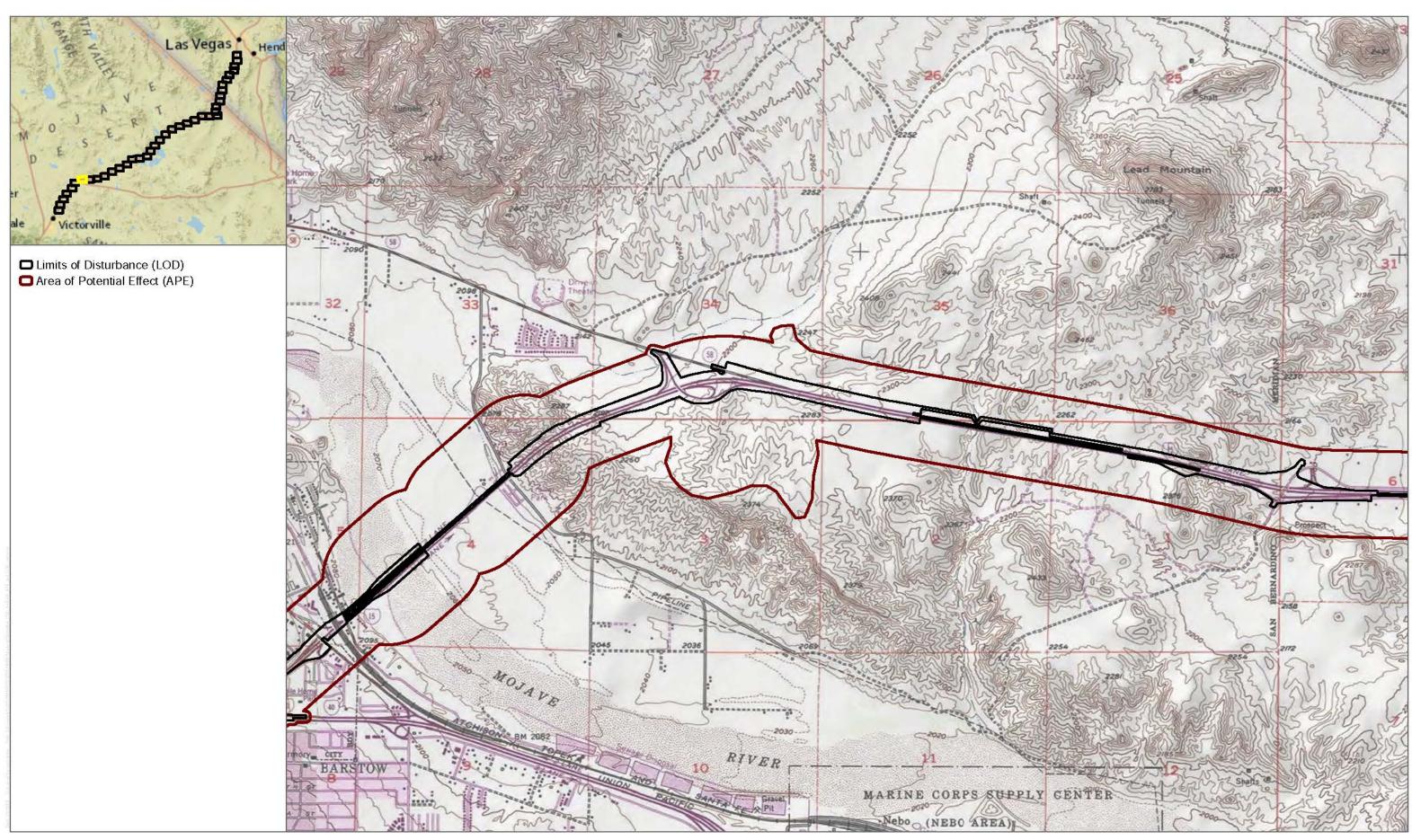
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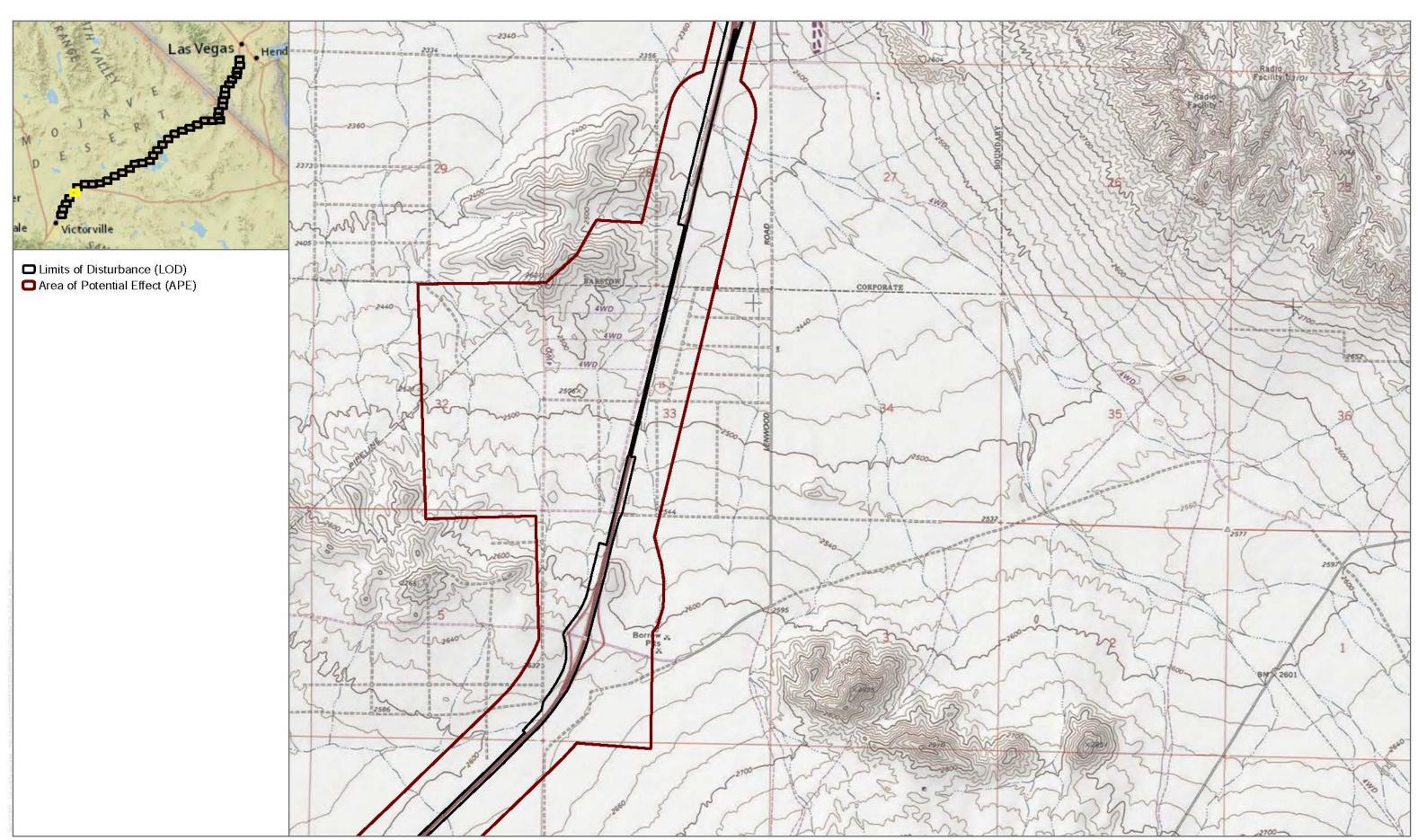
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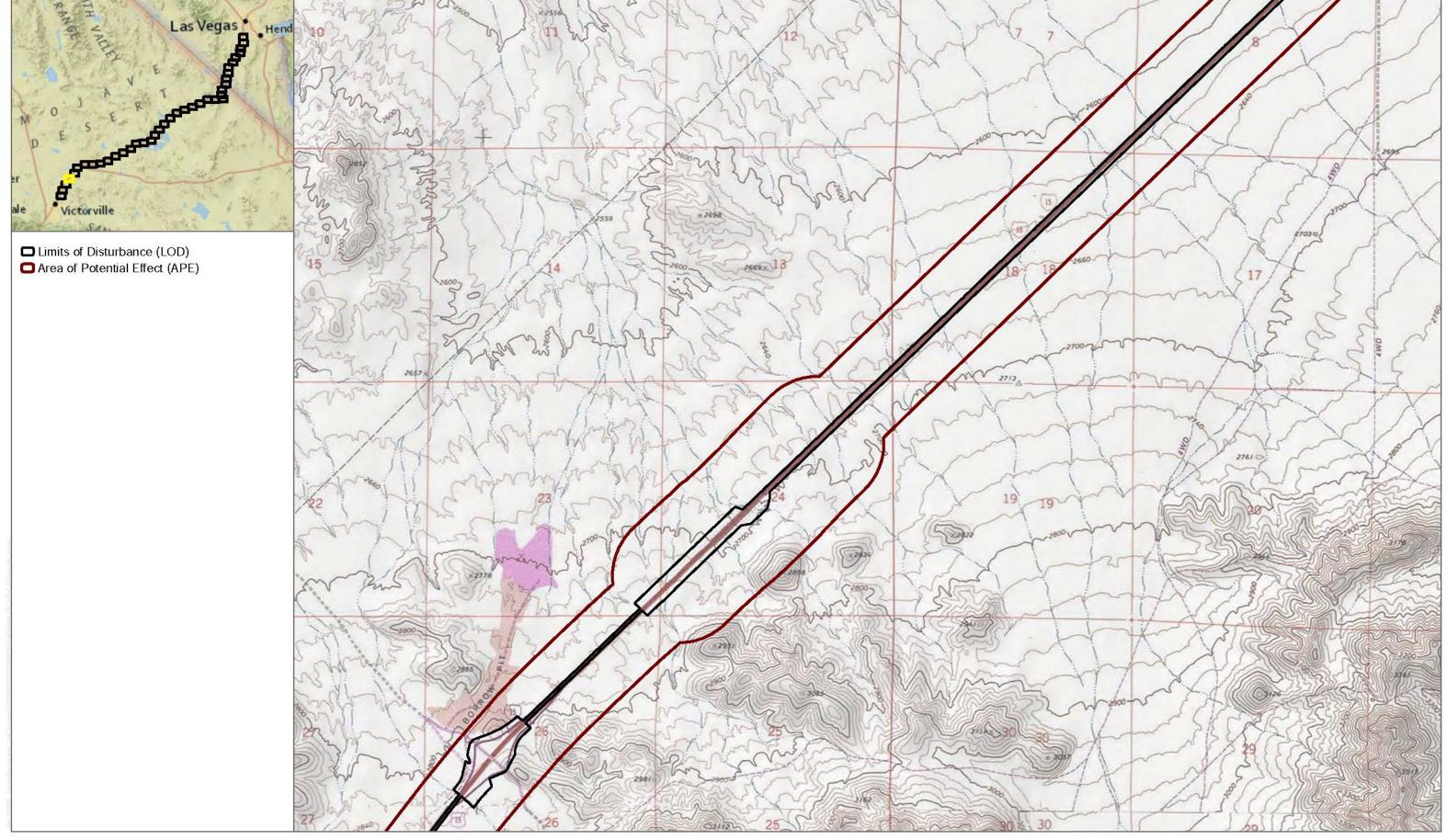
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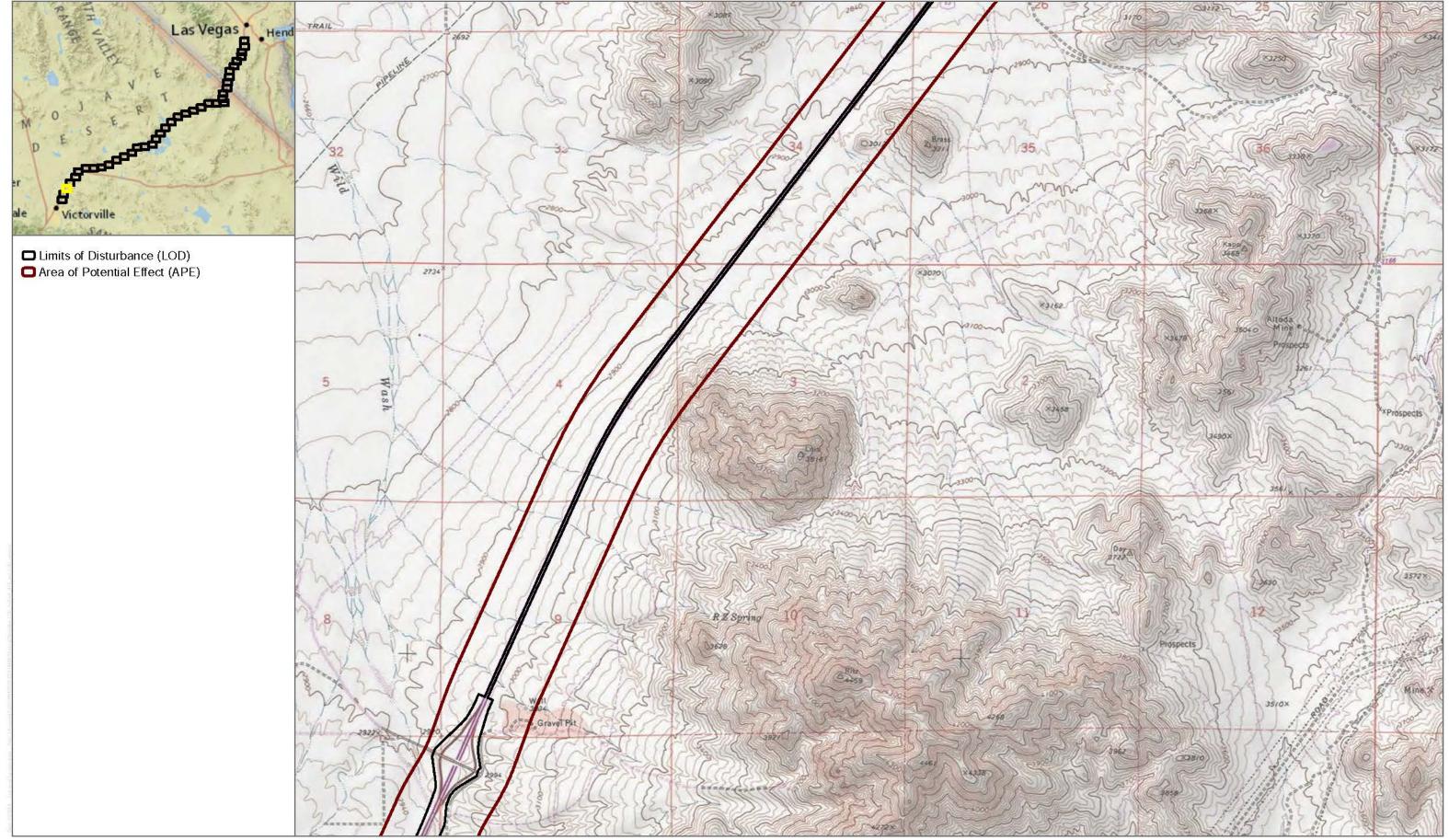
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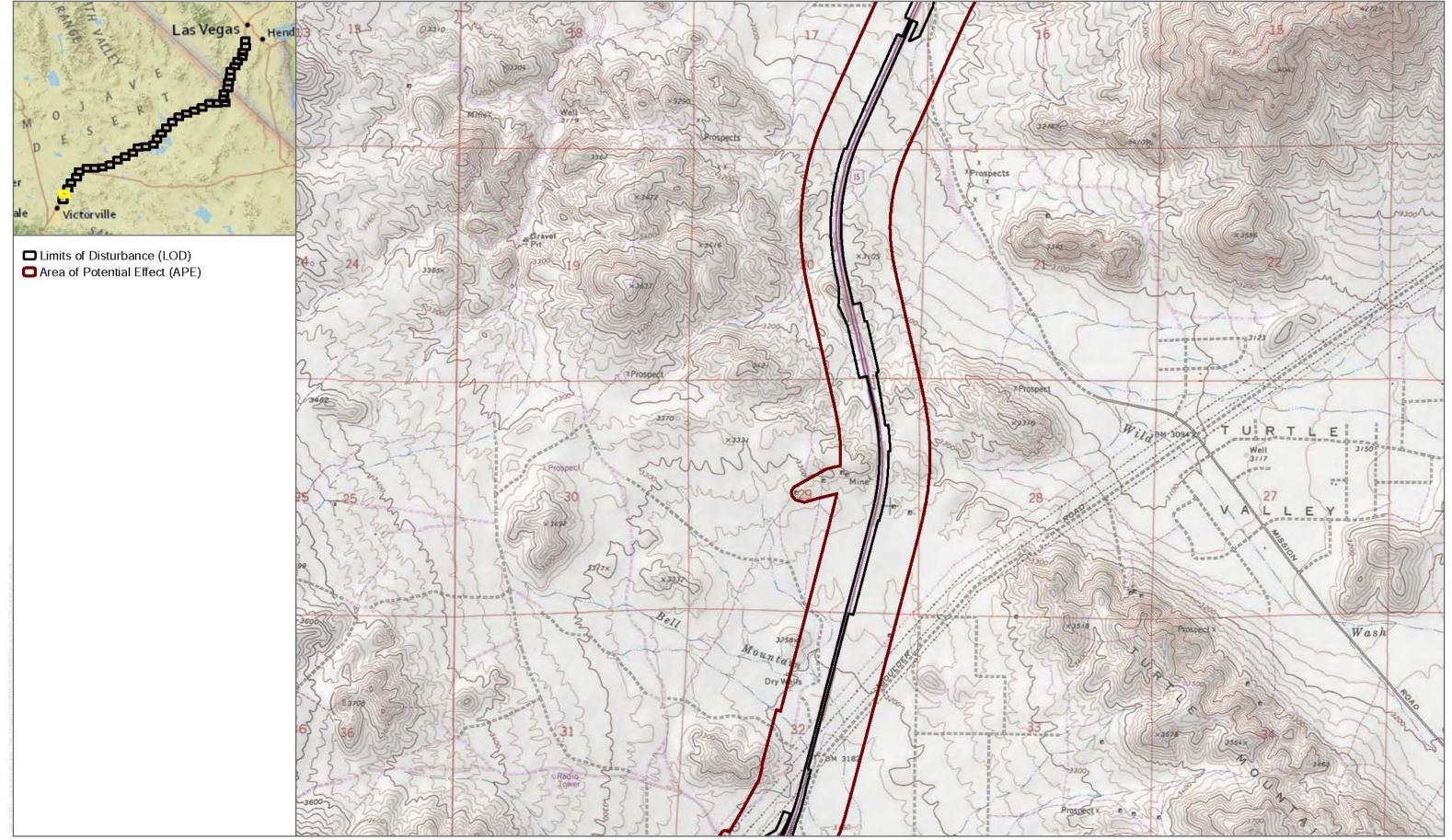
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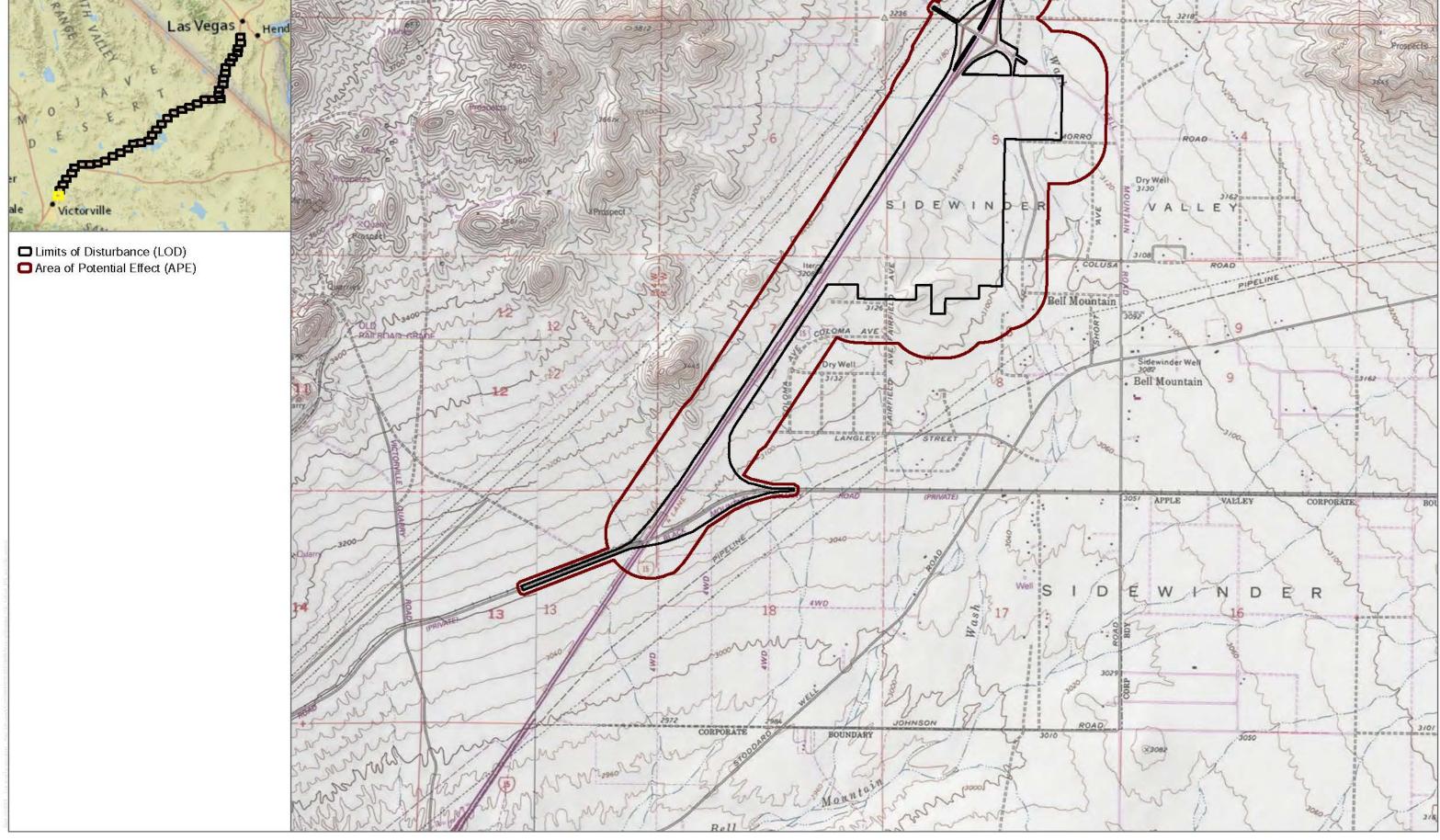
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