

POD Appendices:

- Appendix A – Access Road Siting and Management Plan
- Appendix B – Biological Resource Protection Plan
- Appendix C – Cultural Resource Protection Plan
- Appendix D – Paleontological Resource Plan
- Appendix E – Visual Resource Protection Plan
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- Appendix G – Environmental Monitoring and Compliance Plan
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- Appendix L – Flagging, Fencing, and Signage Plan
- Appendix M – Geotechnical Plan
- Appendix N – Hazardous Materials Management and Oil Spill Plan
- Appendix O – Health, Safety, and Noise Plans
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**Tri-State Montrose-Nucla-Cahone Transmission Line
Improvement Project**

Plan of Development

Montrose, Ouray, San Miguel, and Dolores Counties, Colorado

Appendix U

Permits and Authorizations

Appendix U

Permits and Authorizations

The objective of this Permits and Authorizations Plan is to detail practices designed to address potential impacts from construction of the Tri-State Montrose-Nucla-Cahone Transmission Improvement Project (Project). Tri-State Generation and Transmission Association, Inc. (Tri-State) has developed this plan as part of the Plan of Development (POD) that accompanies its application to the Bureau of Land Management (BLM) for a Right of Way (ROW) grant. If the ROW grant is approved, the final POD and all appendices will be attached to the Decision Record. This plan provides guidance to construction and field personnel on measures identified by Tri-State, BLM and US Forest Service (USFS) to minimize effects during construction activities associated with the Project. It will be the responsibility of Tri-State and its project contractors, working with designated environmental inspectors, to comply with measures identified in this plan.

This Appendix will include copies of all permits pertinent to the project, including but not limited to: BLM ROW grant, USFS Special Use Authorization (SUA), Notices to Proceed (NTP), Colorado Parks and Wildlife (CPW) ROW grant, Colorado Land Board ROW grant, Dolores, San Miguel and Montrose county land use change permits, USACE 404 permits, and Construction Storm Water permit. A list of required permits, approvals or consultations for the proposed project is in Table U-1.

Table U-1. Required Agency Permit, Approval, or Consultation for the Proposed Project

Regulatory Agency	Required Permit, Approval, or Consultation	Agency Action
<i>Federal</i>		
Advisory Council on Historic Preservation	National Historic Preservation Act (NHPA), Section 106 Consultation	Determination of effects to listed or eligible historic properties and cultural resources
USFS	Temporary SUA	For temporary uses of National Forest System (NFS) lands during construction. Includes a Surface Reclamation Bond
USFS	SUA	Authorization of NFS lands for operation and maintenance of the transmission line, including use of National Forest System Roads (NFSRs) open to the public, administrative NFSRs closed to the public, and special use routes
USFS	Road Use Permit	Authorization of use of NFSRs during construction the transmission line. Includes a Performance Bond and Surface Rock Replacement
USFS	NTP	Allows proposed project to proceed to construction

Regulatory Agency	Required Permit, Approval, or Consultation	Agency Action
USFS	POD	Consider approval of a detailed Final POD for proposed project construction, operation, and maintenance; meets the need for an SF-299
United States Department of Defense, Army Corps of Engineers (USACE)	Section 404, Clean Water Act Permit	Consider issuance of a Section 404 permit for fill in wetlands or other waters of the U.S. for upgrading access roads
BLM	Short and Long-term ROW Grant(s)	Consider issuance of short- (construction related) and long-term ROW grants
BLM	POD	Consider approval of a detailed Final POD for proposed project construction, operation, and maintenance
BLM	NTP	Allows proposed project to proceed to construction
United States Department of the Interior U.S. Fish and Wildlife Service (USFWS), Mountain Prairie Region, Colorado Field Office	Section 7 Consultation (Endangered Species Act [ESA])	Consider the findings (biological assessment) of the lead agency; provide a biological opinion if adverse effects to federal listed species or habitats would occur
<i>State</i>		
Colorado Parks and Wildlife (CPW)	Long-term and temporary ROW Grant(s)	Consider issuance of both long-term and temporary (construction-related) ROW grants across CPW lands
Colorado State Land Board	Long-term and temporary ROW Grant(s)	Consider issuance of both long-term and temporary (construction-related) ROW grants across State Land Board lands
Colorado Department of Public Health and Environment (CDPHE)	National Pollutant Discharge Elimination System (NPDES) Construction storm water; Construction dewatering	Consider issuance of permits
Colorado Department of Transportation (CDOT)	Encroachment Permit	Consider issuance of permit for transmission line crossing of State Highway (SH) 141 and 145
Colorado Public Utilities Commission (CPUC)	Certificate of Public Convenience and Necessity (CPCN)	Issued July 22, 2013 Proceeding No. 13A-0489E

Regulatory Agency	Required Permit, Approval, or Consultation	Agency Action
<i>Local</i>		
Dolores County	Land Use Change permit for transmission line and Cahone substation expansion; Driveway permit for substation; Traffic Control; Contact for smoke notification	Consider issuance of permits (Project is consistent with the land use plan)
San Miguel County	Land Use Change for transmission line	Consider issuance of permits (Project is consistent with the land use plan)
Montrose County	Special Use permit for new 230-kV (Maverick) substation and Montrose substation expansion; ROW Use Permit(s) as applicable	Consider issuance of permits (Project is consistent with the land use plan)

Note: Although the project crosses Ouray County, no permits are required.

**Tri-State Montrose-Nucla-Cahone
Transmission Line Improvement Project**

Plan of Development

Montrose, Ouray, San Miguel, and Dolores Counties, Colorado

Appendix V

Right of Way Legal Descriptions

Appendix V

Right of Way Legal Descriptions

The objective of this Right of Way (ROW) Legal Descriptions Appendix is to document accurate locations for construction of the Tri-State Montrose-Nucla-Cahone Transmission Improvement Project (Project). Tri-State Generation and Transmission Association (Tri-State) has developed these descriptions as part of the Plan of Development (POD) that accompanies its application to the Bureau of Land Management (BLM) for a ROW grant. If the ROW grant is approved, the final POD and all appendices will be attached to the Decision Record. Prior to issuance of a ROW Grant Tri-State will provide an updated Appendix V that includes the length, width, and acreage of the actual ROW and roads (see Table V-1).

Table V-1: Right of Way Legal Description Timetable

Timeline	Submittal to BLM and USFS
Prior to Issuance of a ROW Grant	Update Appendix V to include length, width, and acreage of the actual ROW and roads on BLM and USFS administered lands by District.

Roads open to the public and/or maintained by others are not included in Tri-State's authorization. All other roads used by Tri-State will have their legal descriptions included in the authorization. Legal descriptions below are separated by Field Office and Ranger Districts. The ROW descriptions are organized under the following headings:

- 1.0 Montrose County, Uncompahgre Field Office, BLM
 - 1.1 Transmission Line
 - 1.2 Access Roads
- 2.0 San Miguel County, Tres Rios Field Office, BLM
 - 2.1 Transmission Line
 - 2.2 Access Roads
- 3.0 San Miguel County, Uncompahgre Field Office, BLM
 - 3.1 Transmission Line
 - 3.2 Access Roads
- 4.0 Montrose County, Ouray Ranger District, USFS
 - 4.1 Transmission Line
 - 4.2 Access Roads
- 5.0 Montrose County, Norwood Ranger District, USFS
 - 5.1 Transmission Line
 - 5.2 Access Roads
- 6.0 Ouray County, Ouray Ranger District, USFS
 - 6.1 Transmission Line
 - 6.2 Access Roads
- 7.0 Dolores County, Tres Rios Field Office, BLM
 - 7.1 Transmission Line
 - 7.2 Access Roads
- 8.0 Dolores County, Mancos/Dolores Ranger District, USFS
 - 8.1 Transmission Line
 - 8.2 Access Roads

1.0 Montrose County, Uncompahgre Field Office, BLM

1.1 Transmission Line

New Mexico Principal Meridian, Colorado

T. 48 N., R. 10 W.,

sec. 8, S1/2SE1/4;

sec. 9, S1/2SW1/4 and S1/2SE1/4;

sec. 17, N1/2NE1/4, NE1/4NW1/4, and S1/2NW1/4;

sec. 18, lot 32;

sec. 19, lots 6, 7, 11, and 12, NE1/4NE1/4, W1/2NE1/4, and NW1/4SE1/4;

sec. 30, lots 2 thru 4.

T. 47 N., R. 11 W.,

sec. 2, lot 2.

T. 48 N., R. 11 W.,

sec. 25, SE1/4NE1/4, SE1/4SW1/4, N1/2SE1/4, and SW1/4SE1/4;

sec. 35, NE1/4SE1/4 and S1/2SE1/4;

sec. 36, N1/2NW1/4, S1/2NW1/4, and NW1/4SW1/4.

T. 46 N., R. 14 W.,

sec. 1, N1/2SW1/4, NW1/4SE1/4, and S1/2SE1/4;

sec. 2, N1/2SW1/4 and N1/2SE1/4;

sec. 3, lot 13, E1/2SE1/4;

sec. 9, SE1/4NE1/4, S1/2SW1/4, N1/2SE1/4, and SW1/4SE1/4;

sec. 10, lot 15 and 16, SW1/4NW1/4;

sec. 16, NW1/4NW1/4;

sec. 17, E1/2NE1/4, SW1/4NE1/4, N1/2SW1/4, and NW1/4SE1/4;

sec. 18, Lot 3, NE1/4SW1/4, and N1/2SE1/4;

MS2520.

T. 46 N., R. 15 W.,

sec. 13, N1/2SW1/4 and N1/2SE1/4;

sec. 14, N1/2SW1/4, S1/2SW1/4, and N1/2SE1/4;

sec. 15, lots 8, 13, and 14;

sec. 22, W1/2NE1/4 and W1/2SE1/4 except tract recorded at Book 773, Page 265 and MS

4571;

sec. 27, W1/2SE1/4;

sec. 34, E1/2NW1/4 and NE1/4SW1/4.

1.2 Access Roads

New Mexico Principal Meridian, Colorado

T. 48 N., R. 10 W.,

sec. 8, NE1/4SE1/4 and S1/2SE1/4;

sec. 9, S1/2SW1/4, SW1/4SE1/4, and SE1/4SE1/4;

sec. 16, NW1/4NE1/4 and NE1/4NW1/4;

sec. 17, N1/2NE1/4 and E1/2NW1/4;

sec. 30, lots 2 thru 4.

T. 48 N., R. 11 W.,

sec. 25, SE1/4NE1/4 and NE1/4SE1/4;

sec. 35, NE1/4SE1/4 and SW1/4SE1/4;

sec. 36, S1/2NW1/4 and NW1/4SW1/4.

T. 46 N., R. 14 W.,

- sec. 1, SE1/4NW1/4, N1/2SW1/4, NW1/4SE1/4;
 - sec. 2, N1/2SW1/4, S1/2SW1/4, N1/2SE1/4, and SW1/4SE1/4;
 - sec. 3, lots 12 and 13, and E1/2SE1/4;
 - sec. 4, lot 18 and S1/2SE1/4;
 - sec. 9, N1/2NE1/4, S1/2NE1/4, SE1/4SW1/4, and N1/2SE1/4;
 - sec. 10, lot 15 and 16;
 - sec. 11, NW1/4NE1/4 and NE1/4NW1/4;
 - sec. 16, E1/2NW1/4, NE1/4SW1/4, and S1/2SW1/4;
 - sec. 17, SE1/4NE1/4, N1/2SW1/4, NW1/4SE1/4, and S1/2SE1/4;
 - sec. 18, lots 3 and 4, and NE1/4 SW1/4;
 - sec. 21, NW1/4NW1/4 and E1/2NW1/4.
- T. 45 N., R. 15 W.,
- sec. 2, SW1/4SW1/4 AND NE1/4SE1/4.
- T. 46 S., R. 15 W.,
- sec. 13, S1/2NW1/4, NE1/4SW1/4, and N1/2SE1/4;
 - sec. 14, S1/2NE1/4, N1/2SW1/4, SW1/4SW1/4, and NW1/4SE1/4;
 - sec. 15, lots 8, 13, and 14;
 - sec. 22, E1/2NE1/4, W1/2NE1/4 except MS 4571, SE1/4NW1/4, and W1/2SE1/4;
- sec. 27, W1/2SE1/4.
- sec. 34, E1/2NW1/4 and NE1/4SW1/4

2.0 San Miguel County, Tres Rios Field Office, BLM

2.1 Transmission Line

New Mexico Principal Meridian, Colorado

- T. 44 N., R. 15 W.,
- sec. 6, lots 6, 12 and 13;
 - sec. 7, lot 8.
- T. 45 N., R. 15 W.,
- sec. 29, S1/2SE1/4;
 - sec. 32, N1/2NE1/4, SW1/4NE1/4, SE1/4NW1/4, N1/2SW1/4 and S1/2SW1/4.
- T. 43N., R. 16W.,
- sec. 3, NW1/4SW1/4;
 - sec. 4, SE1/4SW1/4, NE1/4SE1/4 and S1/2SE1/4;
 - sec. 8, SE1/4NE1/4, SE1/4SW1/4, N1/2SE1/4 and SW1/4SE1/4;
 - sec. 9, NW1/4NE1/4, N1/2NW1/4 and S1/2NW1/4;
 - sec. 17, N1/2NW1/4 and SW1/4NW1/4;
 - sec. 18, S1/2NE1/4, E1/2SW1/4 and NW1/4SE1/4.
- T. 44 N., R. 16 W.,
- sec. 23, NE1/4SE1/4;
 - sec. 26, W1/2NE1/4 and NW1/4SE1/4;
 - sec. 34, SE1/4NE1/4, N1/2SE1/4 and SW1/4SE1/4.
- T. 42 N., R. 17 W.,
- sec. 4, lot 4;
 - sec. 5, lot 1, S1/2NE1/4, SE1/4NW1/4, NE1/4SW1/4, S1/2SW1/4 and NW1/4SE1/4;
 - sec. 8, W1/2NW1/4 and W1/2SW1/4;
- sec. 17, W1/2NW1/4.
- T. 43 N., R. 17 W.,
- sec. 23, S1/2SE1/4;
 - sec. 24, N1/2SW1/4 and SW1/4SW1/4;

sec. 26, N1/2NE1/4, NE1/4NW, S1/2NW1/4 and NW1/4SW1/4;
 sec. 27, E1/2SE1/4;
 sec. 33, SE1/4NE1/4, NE1/4SW1/4, S1/2SW1/4, N1/2SE1/4 and SW1/4SE1/4;
 sec. 34, SW1/4NW1/4.

2.2 Access Roads

New Mexico Principal Meridian, Colorado

T. 44 N., R. 15 W.,

sec. 8, lot 1;
 sec. 17, lots 5 and 6;
 sec. 19, lot 1, N1/2NE1/4 and NE1/4NW1/4;
 sec. 20, N1/2NW1/4.

T. 45 N., R. 15 W.,

sec. 28, SW1/4SW1/4;
 sec. 29, SE1/4SE1/4;
 sec. 32, NE1/4NE1/4, S1/2NE1/4, E1/2SW1/4, NE1/4SE1/4 and S1/2SE1/4.

T. 43N., R. 16W.,

sec. 4, SW1/4SE1/4;
 sec. 5, lot 1, SE1/4NE1/4, NE1/4SE1/4 AND S1/2SE1/4;
 sec. 8, N1/2NE1/4, S1/2NE1/4, SE1/4SW1/4, NE1/4SE1/4 and SW1/4SE1/4;
 sec. 9, NW1/4NE1/4, N1/2NW1/4 and SW1/4NW1/4;
 sec. 17, N1/2NE1/4, S1/2NE1/4, N1/2NW1/4 and SW1/4NW1/4;
 sec. 18, lots 2 and 3, E1/2NE1/4, E1/2SW1/4 and NW1/4SE1/4.

T. 44 N., R. 16 W.,

sec. 22, E1/2NE1/4 and E1/2SE1/4;
 sec. 27, E1/2SE1/4;
 sec. 32, SE1/4SE1/4;
 sec. 34, E1/2NE1/4, N1/2SE1/4 and S1/2SE1/4.

T. 42 N., R. 17 W.,

sec. 4, lot 4, SW1/4NW1/4;
 sec. 5, lot1, S1/2NE1/4 and N1/2SE1/4;
 sec. 7, unsurveyed;
 sec. 8, W1/2NW1/4 and W1/2SW1/4;

sec. 17, W1/2NW1/4;

sec. 18, E1/2NE1/4.

T. 43 N., R. 17 W.,

sec. 2, E1/2SW1/4 and S1/2SE1/4;
 sec. 11, E1/2NE1/4 and E1/2SE1/4;
 sec. 12, W1/2SW1/4 and SW1/4NW1/4;
 sec. 13, lots 2 thru 4, NW1/4NE1/4, N1/2NW1/4 and SW1/4NW1/4;
 sec. 14, E1/2NE1/4 and E1/2SE1/4;
 sec. 23, E1/2NE1/4 and E1/2SE1/4;
 sec. 26, N1/2NE1/4, NE1/4NW1/4, S1/2NW1/4, N1/2SW1/4, N1/2SE1/4 and SE1/4SE1/4;

sec. 27, SE1/4NE1/4, SW1/4SW1/4 and NE1/4SE1/4;

sec. 33, S1/2NE1/4, S1/2SW1/4 and N1/2SE1/4;
 sec. 34, SW1/4NW1/4, NE1/4SW1/4 and N1/2SE1/4.

3.0 San Miguel County, Uncompahgre Field Office, BLM

3.1 Transmission Line

New Mexico Principal Meridian, Colorado

T. 45 N., R. 15 W.,

sec. 21, SE1/4SE1/4;

sec. 22, lots 2, 6, 7 and 11 thru 13;

sec. 28, N1/2NE1/4, SW1/4NE1/4, SE1/4NW1/4, N1/2SW1/4 and SW1/4SW1/4;

sec. 29, E1/2SE1/4.

3.2 Access Roads

New Mexico Principal Meridian, Colorado

T. 45 N., R. 15 W.,

sec. 28, N1/2NE1/4 and W1/2SW1/4;

sec. 29, SE1/4SE1/4.

4.0 Montrose County, Ouray Ranger District, USFS

4.1 Transmission Line

New Mexico Principal Meridian, Colorado

T. 47 N., R. 12 W.,

sec. 13, S1/2SW1/4, NE1/4SE1/4, and S1/2SE1/4;

sec. 14, S1/2SW1/4;

sec. 15, N1/2SW1/4, SE1/4SW1/4, and S1/2 SE1/4;

sec. 16, SW1/4SE1/4 and E1/2SE1/4;

sec. 21, NW1/4NE1/4 and NE1/4NW1/4;

sec. 23, N1/2NE1/4 and N1/2NW1/4.

4.2 Access Roads

New Mexico Principal Meridian, Colorado

T. 47 N., R. 11 W.,

sec. 18, lot 6.

T. 47 N., R. 12 W.,

sec. 13, SE1/4SW1/4, NE1/4SE1/4, and SW1/4SE1/4;

sec. 15, N1/2SW1/4, SE1/4SW1/4 and S1/2 SE1/4;

sec. 16, NE1/4SE1/4 and S1/2SE1/4;

sec. 21, N1/2NE1/4 and N1/2NW1/4;

sec. 22, E1/2NE1/4, SW1/4NE1/4, NW1/4NW1/4, and S1/2NW1/4;

sec. 23, N1/2NE1/4 and N1/2NW1/4;

sec. 24, N1/2NW1/4.

5.0 Montrose County, Norwood Ranger District, USFS

5.1 Transmission Line

New Mexico Principal Meridian, Colorado

T. 47 N., R. 12 W.,

sec. 20, SE1/4SE1/4;

sec. 21, W1/2NE1/4, E1/2NW1/4, N1/2SW1/4, and SW1/4SW1/4;

sec. 29, N1/2NE1/4, SW1/4NE1/4, SE1/4NW1/4, N1/2SW1/4, SW1/4SW1/4, and NW1/4SE1/4;

- sec. 30, SE1/4SE1/4;
- sec. 31, lots 2 and 3, N1/2NE1/4, SW1/4NE1/4, and SE1/4NW1/4.
- T. 46 N., R. 13 W.,
 - sec. 1, lots 2 and 3, S1/2NW1/4, and NW1/4SW1/4;
 - sec. 7, lot 1, NW1/4NE1/4, S1/2NE1/4, E1/2NW1/4;
 - sec. 8, S1/2NW1/4, N1/2SW1/4, N1/2SE1/4, and SE1/4SE1/4;
 - sec. 9, NW1/4SW1/4, S1/2SW1/4, and SW1/4SE1/4;
 - sec. 10, SE1/4NE1/4, SE1/4SW1/4, and W1/2SE1/4;
 - sec. 11, NW1/4NE1/4, NE1/4NW1/4, and S1/2NW1/4;
 - sec. 15, NW1/4NE1/4 and N1/2NW1/4;
 - sec. 16, N1/2NE1/4.
- T. 47 N., R. 13 W.,
 - sec. 36, lots 3 thru 5.

5.2 Access Roads

New Mexico Principal Meridian, Colorado

- T. 46 N., R. 12 W.,
 - sec. 6, lots 1, 2, 4 thru 6, SW1/4NE1/4, SE1/4NW1/4, and NE1/4SW1/4.
- T. 47 N., R. 12 W.,
 - sec. 20, S1/2NE1/4, SE1/4SW1/4, NW1/4SE1/4, and S1/2SE1/4;
 - sec. 21, N1/2NE1/4, NW1/4NW1/4, S1/2NW1/4, NE1/4SW1/4, NE1/4SE1/4, and S1/2SE1/4;
 - sec. 22, W1/2NW1/4 and NW1/4SW1/4;
 - sec. 28, NW1/4NE1/4, N1/2NW1/4, SW1/4NW1/4, W1/2SW1/4;
 - sec. 29, N1/2NE1/4, S1/2NE1/4, N1/2NW1/4, SE1/4NW1/4, and SE1/4SE1/4;
 - sec. 31, lots 3, 4, W1/2NE1/4, SE1/4NE1/4, E1/2NW1/4, and E1/2SE1/4;
 - sec. 32, N1/2NE1/4, S1/2NE1/4, N1/2SW1/4, S1/2SW1/4, and NW1/4SE1/4.
- T. 46 N., R. 13 W.,
 - sec. 1, lots 2 and 3, S1/2NW1/4, NW1/4SW1/4, N1/2SE1/4, and SW1/4SE1/4;
 - sec. 2, W1/2SW1/4;
 - sec. 3, SE1/4SE1/4;
 - sec. 7, lot 1, SW1/4NE1/4, AND NE1/4NW1/4;
 - sec. 8, SW1/4NE1/4, N1/2NW1/4, SE1/4NW1/4, NE1/4SW1/4, and NE1/4SE1/4;
 - sec. 9, S1/2SW1/4, N1/2SE1/4, and SW1/4SE1/4;
 - sec. 10, NE1/4NE1/4, SW1/4NE1/4, and W1/2SE1/4;
 - sec. 11, NW1/4NW1/4 and S1/2NW1/4;
 - sec. 15, NW1/4NW1/4.
- T. 47 N., R. 13 W.,
 - sec. 36, lots 3 thru 5.

6.0 Ouray County, Ouray Ranger District, USFS

6.1 Transmission Line

New Mexico Principal Meridian, Colorado

- T. 47 N., R. 11 W.,
 - sec. 18, lots 3, 9 thru 11 and NE1/4SW1/4.

6.2 Access Roads

New Mexico Principal Meridian, Colorado

- T. 47 N., R. 11 W.,

sec. 18, lots 9 thru 11.

7.0 Dolores County, Tres Rios Field Office, BLM

7.1 Transmission Line

New Mexico Principal Meridian, Colorado

T. 40 N., R. 17 W.,

sec. 5, unsurveyed;

sec. 8, W1/2NE1/4, NE1/4NW1/4, N1/2SE1/4 and SE1/4SE1/4.

T. 41 N., R. 17 W.,

sec. 33, unsurveyed.

7.2 Access Roads

New Mexico Principal Meridian, Colorado

T. 39 N., R. 17 W.,

sec. 4, Lot 19;

sec. 8, S1/2SE1/4;

sec. 9, lots 1 and 3, SE1/4NW1/4, N1/2SW1/4 and SW1/4SW1/4;

sec. 17, NW1/4NE1/4.

T. 40 N., R. 17 W.,

sec. 5, unsurveyed;

sec. 6, lots 13 thru 16 and 18 thru 20;

sec. 8, W1/2NE1/4, E1/2NW1/4, S1/2SW1/4 and W1/2SE1/4.

T. 40 N., R. 18 W.,

sec. 1, lots 7 thru 9;

sec. 2, lot 5;

tract 38, lots A thru C;

tract 41, lot D;

tract 42, lots B thru D.

8.0 Dolores County, Mancos/Dolores Ranger District, USFS

8.1 Transmission Line

New Mexico Principal Meridian, Colorado

T. 41 N., R. 17 W.,

sec. 4, lot 3, SE1/4NW1/4 and E1/2SW1/4;

sec. 9, W1/2NE1/4, NE1/4NW1/4 and W1/2SE1/4;

sec. 16, unsurveyed;

sec. 21, unsurveyed;

sec. 22, W1/2SW1/4;

sec. 27, W1/2NW1/4, N1/2SW1/4 and S1/2SW1/4;

sec. 33, unsurveyed;

sec. 34, unsurveyed.

T. 42 N., R. 17 W.,

sec. 20, SW1/4NE1/4, N1/2SE1/4 and S1/2SE1/4;

sec. 28, SW1/4SW1/4;

sec. 29, E1/2NE1/4 and E1/2SE1/4;

sec. 32, NE1/4NE1/4;

sec. 33, W1/2NW1/4 and W1/2SW1/4.

8.2 Access Roads

New Mexico Principal Meridian, Colorado

T. 40 N., R. 16 W.,

sec. 6, lots 2, 7, and 10, NW1/4SE1/4 and S1/2SE1/4;

sec. 7, N1/2NE1/4, SE1/4NE1/4 and E1/2SE1/4;

sec. 18, E1/2NE1/4, SW1/4SE1/4 and E1/2SE1/4;

sec. 19, lots 2 thru 4, NW1/4NE1/4, E1/2NW1/4.

T. 41 N., R. 16 W.,

sec. 19, lot 4;

sec. 29, W1/2SW1/4 and SE1/4SW1/4;

sec. 30, lot 1, SW1/4NE1/4, E1/2NW1/4 and N1/2SE1/4;

sec. 32, SW1/4NE1/4, E1/2NW1/4 and W1/2SE1/4.

T. 39 N., R. 17 W.,

sec. 2, lots 7, 10 thru 12, and 19;

sec. 3, lot 13, NE1/4SW1/4, S1/2SW1/4 and N1/2SE1/4;

sec. 9, NW1/4NE1/4, S1/2NE1/4 and NW1/4SE1/4;

sec. 10, W1/2NW1/4.

T. 40 N., R. 17 W.,

sec. 24 lot 4;

sec. 25, lot 1, W1/2NE1/4, SE1/4NW1/4, N1/2SW1/4 and SW1/4SW1/4;

sec. 35, lots 4 thru 7, and SW1/4SE1/4;

sec. 36, W1/2NW1/4.

T. 41 N., R. 17 W.,

sec. 4, lot 4, and S1/2SW1/4;

sec. 5, lot 1, SE1/4NE1/4, E1/2SE1/4;

sec. 9, NW1/4NE1/4, S1/2NE1/4, NE1/4NW1/4 and NE1/4SE1/4;

sec. 10, N1/2SW1/4, SE1/4SW1/4 and SW1/4SE1/4;

sec. 13, S1/2SW1/4;

sec. 14, SW1/4NW1/4, N1/2SW1/4, N1/2SE1/4 and SE1/4SE1/4;

sec. 15, N1/2NE1/4 and SE1/4NE1/4;

sec. 22, SW1/4NE1/4, S1/2NW1/4, N1/2SW1/4 and N1/2SE1/4;

sec. 23, N1/2SW1/4, SE1/4SW1/4 and SW1/4SE1/4;

sec. 24, lots 3, 5, 6 and 8, W1/2NE1/4 and NE1/4NW1/4;

sec. 25, lots 1 and 2, NW1/4NE1/4 and N1/2NW1/4;

sec. 26, N1/2NE1/4.

T. 42 N., R. 17 W.,

sec. 19, E1/2NE1/4, SW1/4NE1/4, N1/2SE1/4 and S1/2SE1/4;

sec. 20, SW1/4NE1/4, SW1/4SW1/4, E1/2SW1/4 and NW1/4SE1/4;

sec. 29, W1/2NW1/4, N1/2SW1/4, SE1/4SW1/4, SW1/4SE1/4 and E1/2SE1/4;

sec. 32, E1/2NE1/4, NW1/4NE1/4 and E1/2SE1/4;

sec. 33, W1/2NW1/4 and NW1/4SW1/4.

PLAN OF DEVELOPMENT

APPENDIX W

Map Atlas

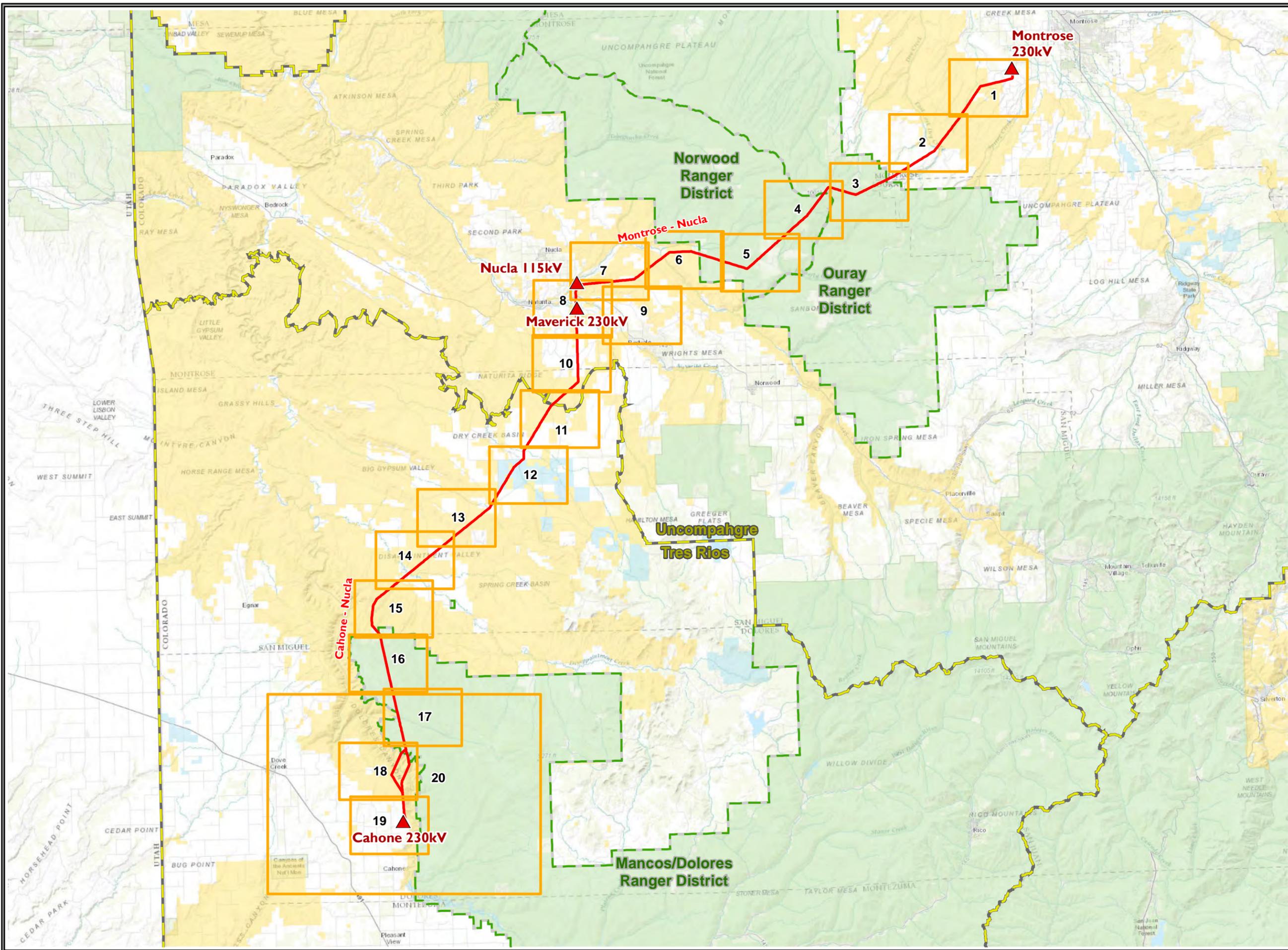
Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Index Map

-  Substation
-  Transmission Line - Tri-State
-  Bureau of Land Management
-  Forest Service (USFS)
-  State Land
-  Map Index
-  USFS Ranger Districts
-  BLM Field Office



Updated By: ydamul
 Updated: 6/27/2016

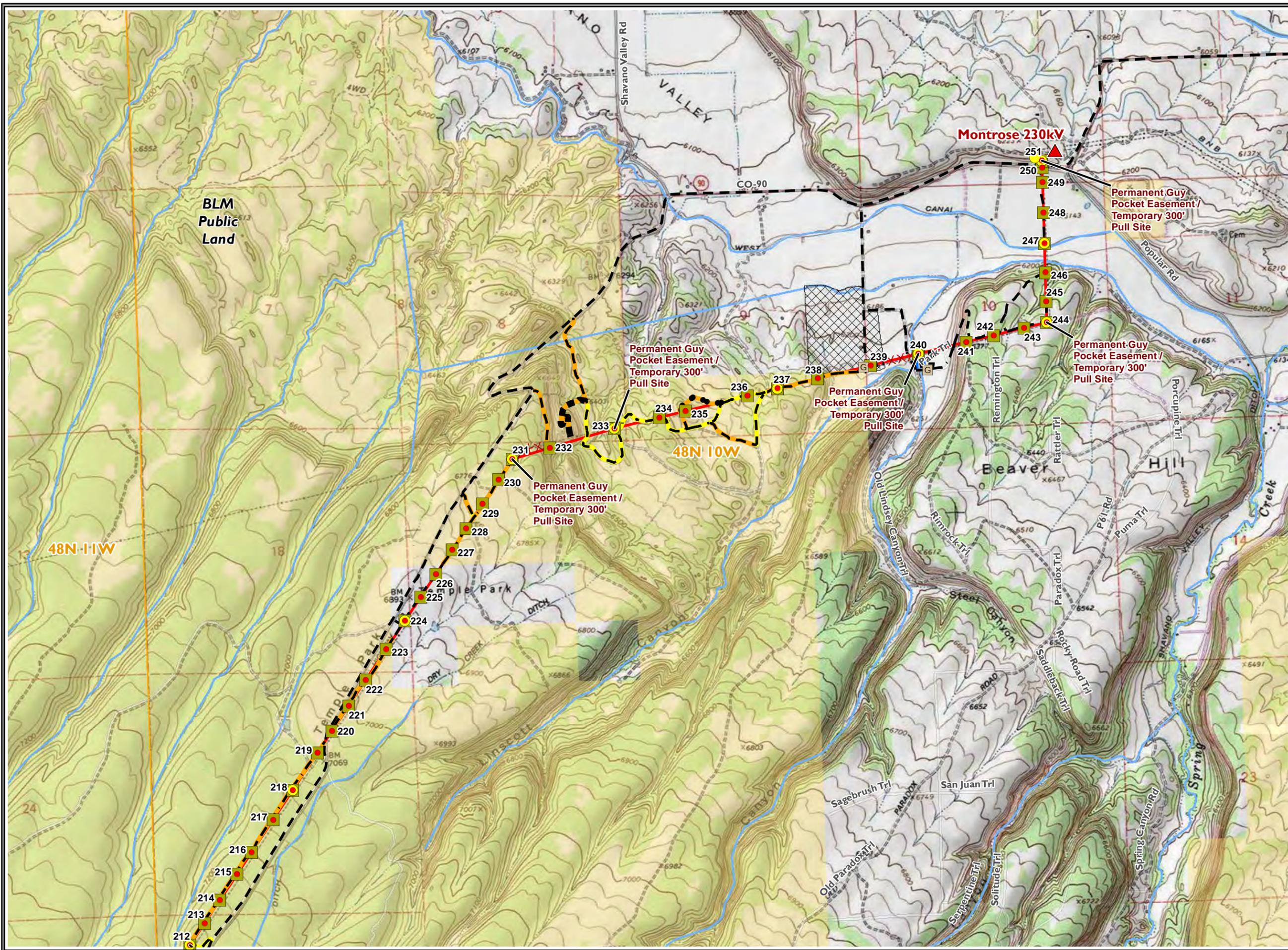
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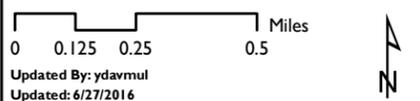
Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

Map 1 of 20 - 1"=2000'

- Structures
 - ▲ Substation
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - ⊠ Temporary Use Areas
 - ▭ Hydrology
 - ▭ Township/Range
 - ▭ BLM District Field Office
 - ▭ County Boundary
 - ▭ Bureau of Land Management
- Access Road**
- Access Road
 - ATV Only
 - Construction Only
 - Proposed New Route
 - Authorized BLM Route (public)
 - Proposed Tri-State BLM Admin
 - XX No Down Line Access

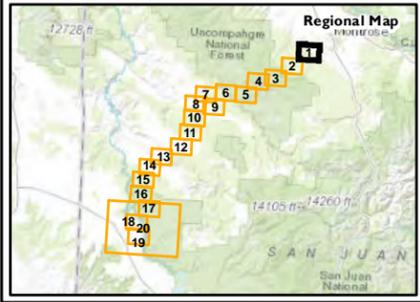


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Updated By: ydamul
 Updated: 6/27/2016

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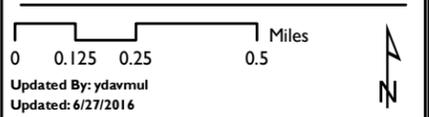


Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

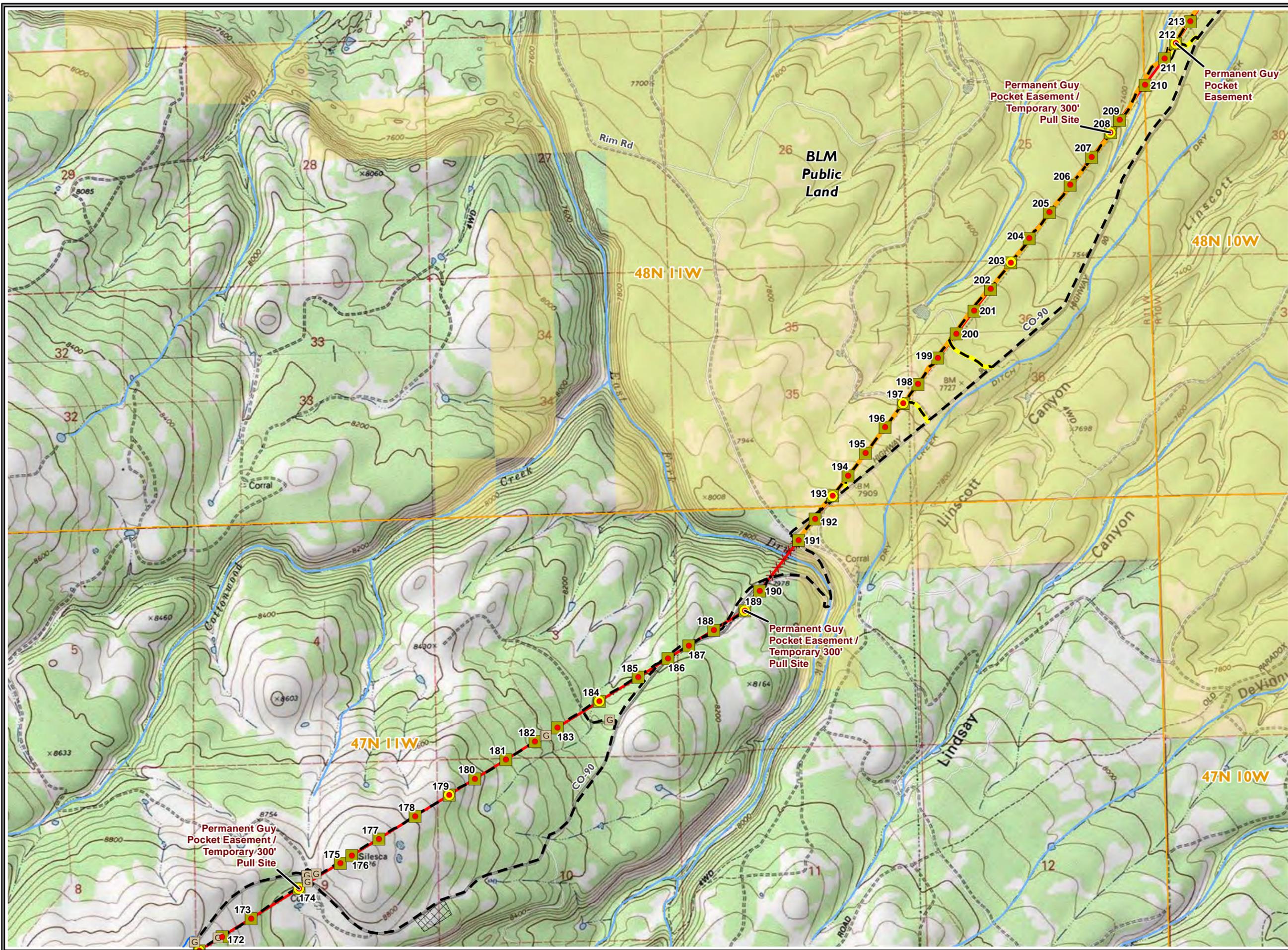
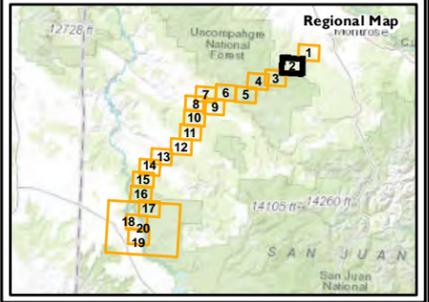
Map 2 of 20 - 1"=2000'

- Structures
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - Temporary Use Areas
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - County Boundary
 - Bureau of Land Management
- Access Road**
- Access Road
 - Existing Route Proposed for New Use
 - Proposed New Route
 - Authorized BLM Route (public)
 - Proposed Tri-State BLM Admin
 - XX No Down Line Access

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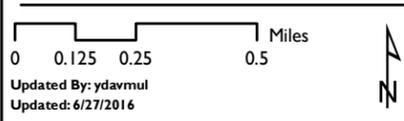


Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

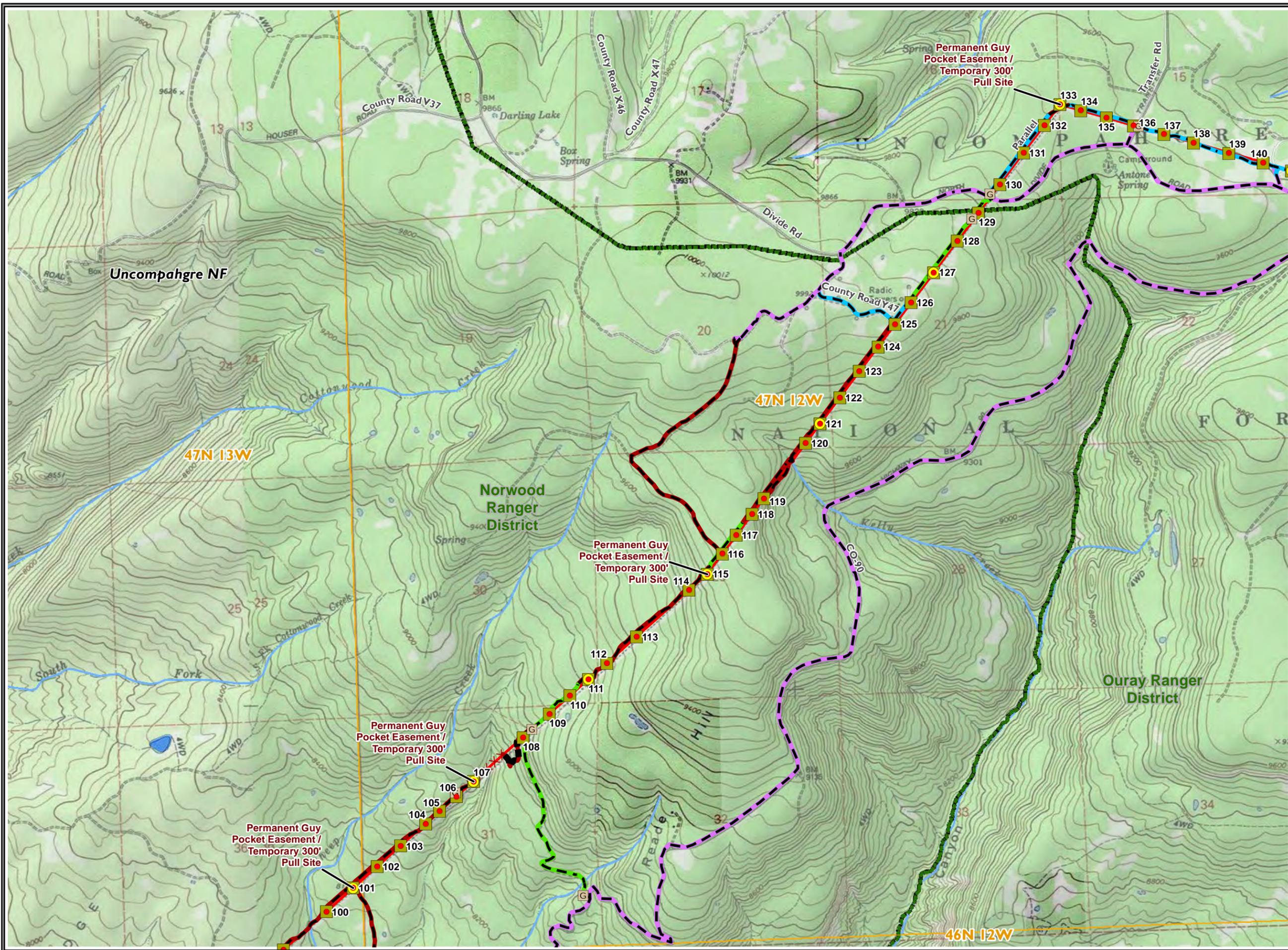
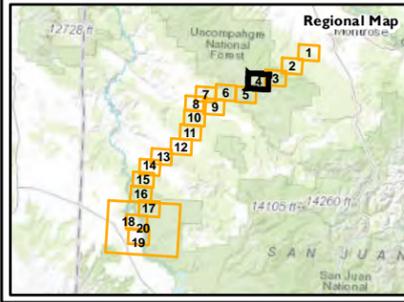
Map 4 of 20 - 1"=2000'

- Structures
- Ⓜ Gate
- Geotechnical Testing Location
- Pad Site
- Transmission Center Line (150' ROW)
- Hydrology
- Township/Range
- BLM District Field Office
- USFS Ranger District
- County Boundary
- Forest Service (USFS)
- Access Road**
- Access Road
- Construction Only
- System Road/Trail (NFSR/NFST)
- System Road (NFSR or Admin NFSR)
- System Trail (NFST)
- Proposed Special Use Route
- XX No Down Line Access

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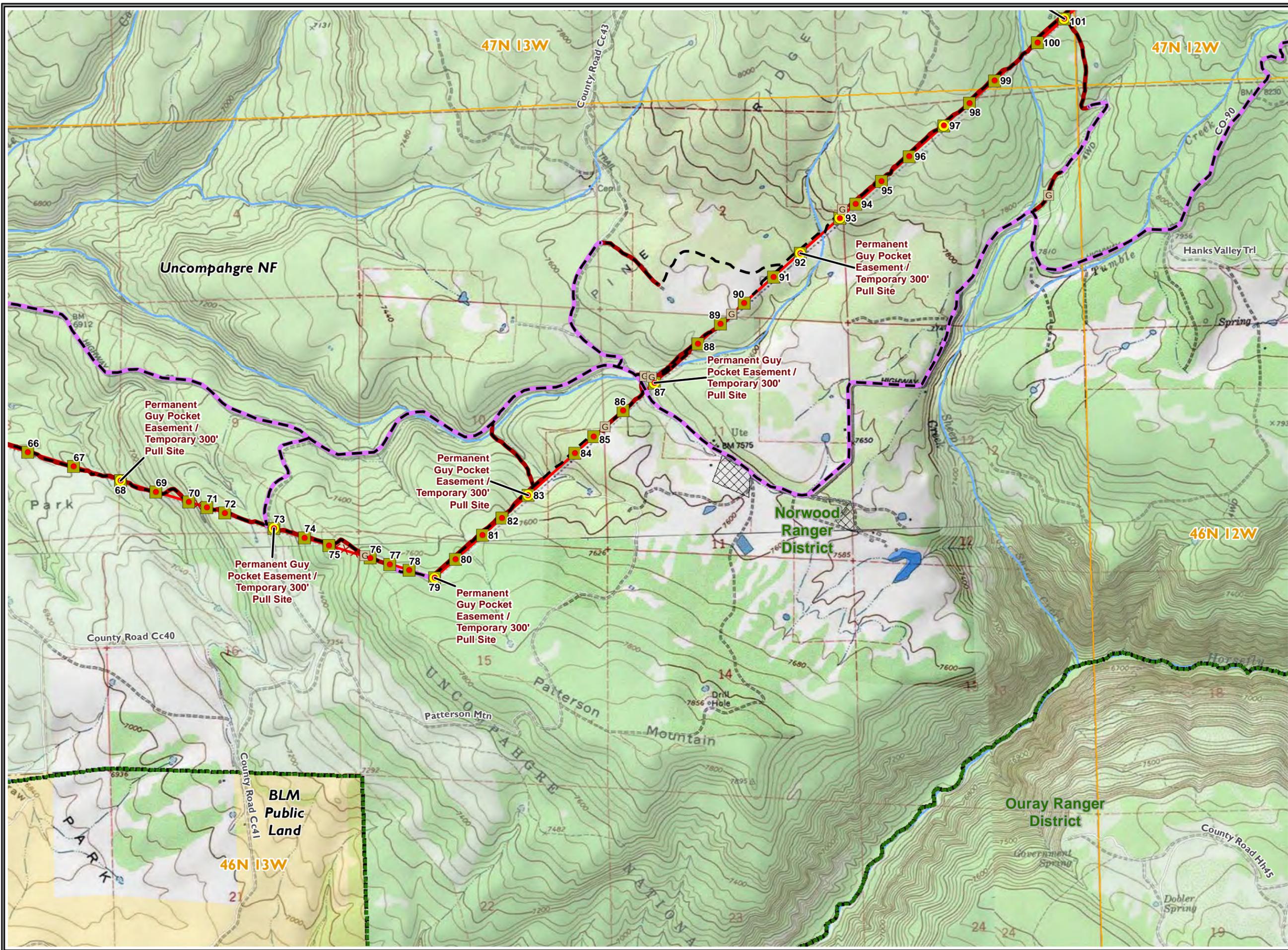
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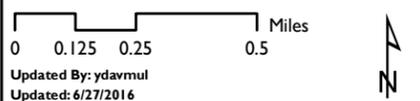
Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

Map 5 of 20 - 1"=2000'

- Structures
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - Temporary Use Areas
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - USFS Ranger District
 - County Boundary
 - Bureau of Land Management
 - Forest Service (USFS)
- Access Road**
- Access Road
 - System Road (NFSR or Admin NFSR)
 - Proposed Special Use Route
 - XX No Down Line Access

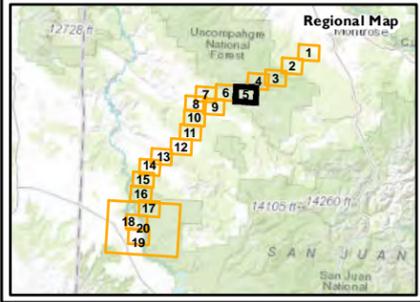


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 Updated: 6/27/2016

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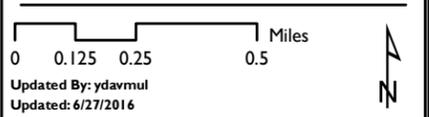


Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

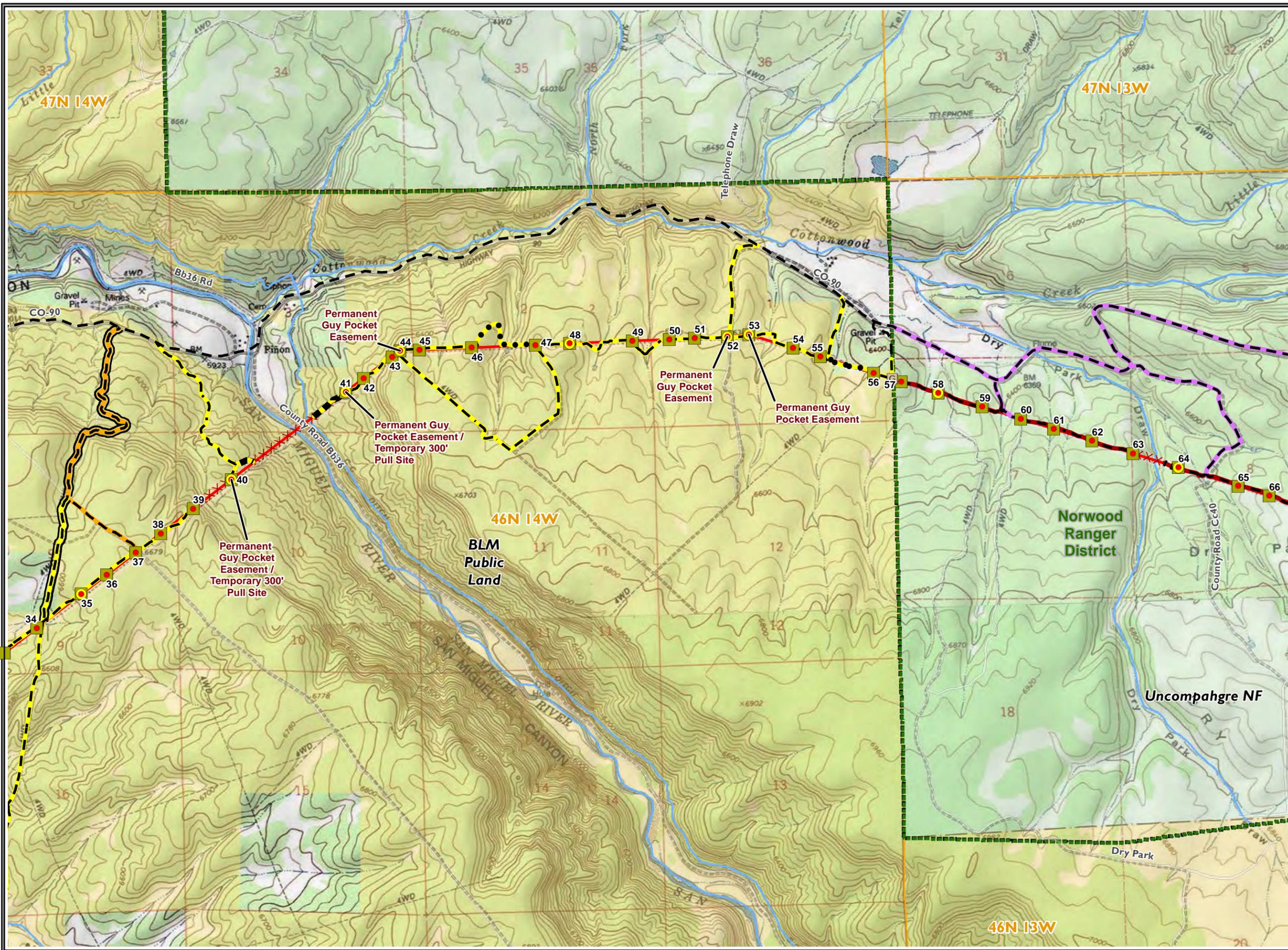
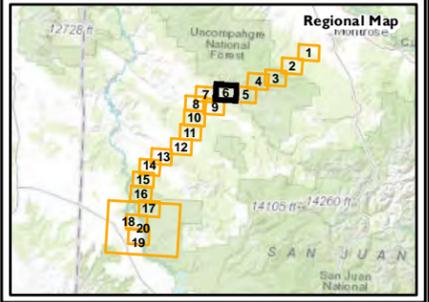
Map 6 of 20 - 1"=2000'

- Structures
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - USFS Ranger District
 - County Boundary
 - Bureau of Land Management
 - Forest Service (USFS)
- Access Road**
- Access Road
 - ATV Only
 - Construction Only
 - Existing Route Proposed for New Use
 - Authorized BLM Route (public)
 - Proposed Tri-State BLM Admin
 - System Road (NFSR or Admin NFSR)
 - Proposed Special Use Route
 - XX No Down Line Access

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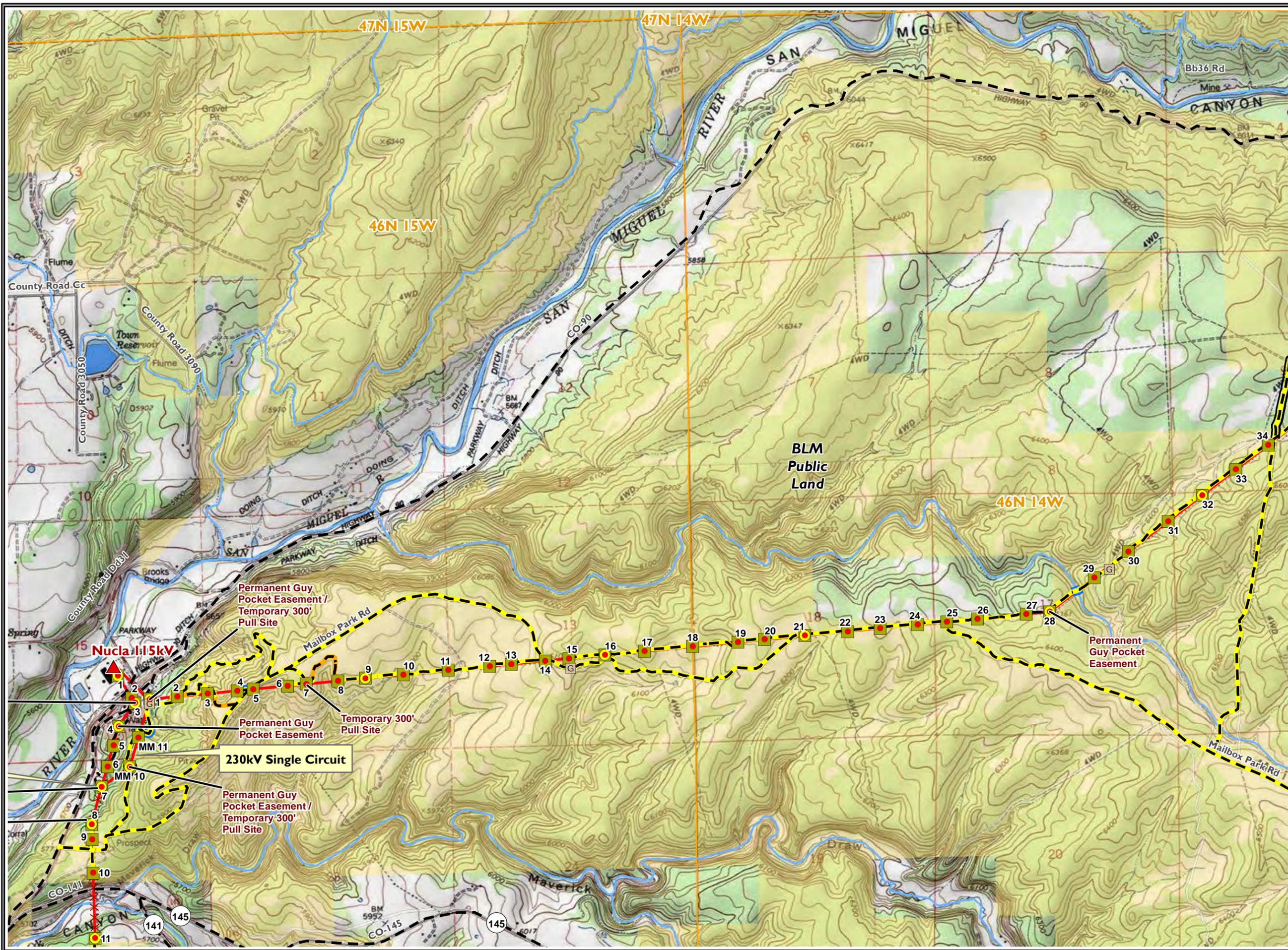
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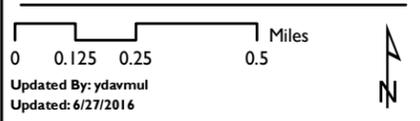
Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

Map 7 of 20 - 1"=2000'

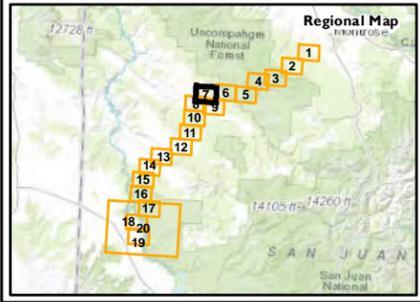
- Structures
 - ▲ Substation
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - State Route
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - County Boundary
 - Bureau of Land Management
- Access Road**
- Access Road
 - Construction Only
 - Existing Route Proposed for New Use
 - Proposed New Route
 - Authorized BLM Route (public)
 - Proposed Tri-State BLM Admin
 - XX No Down Line Access



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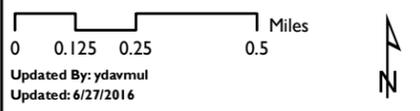


Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

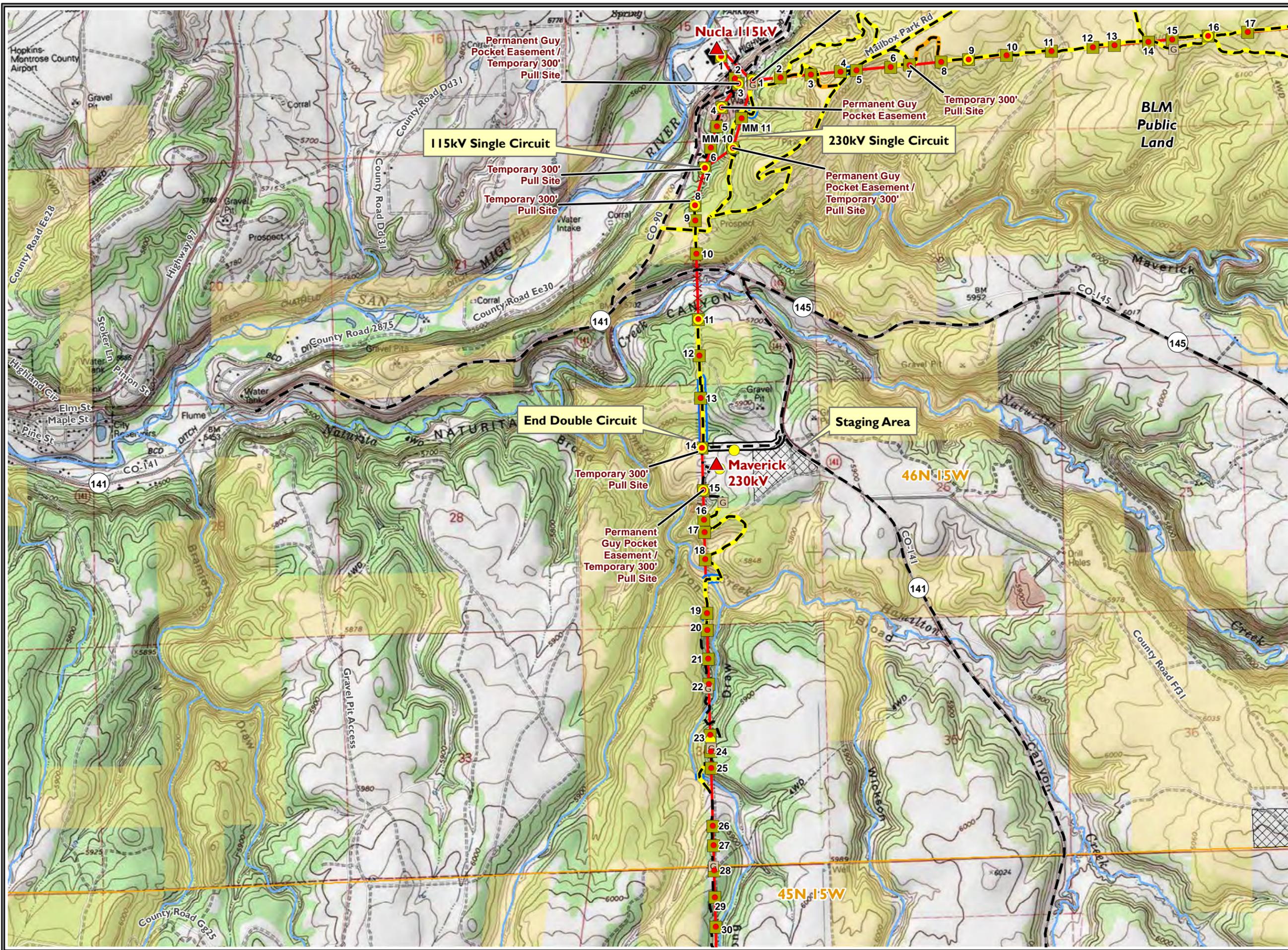
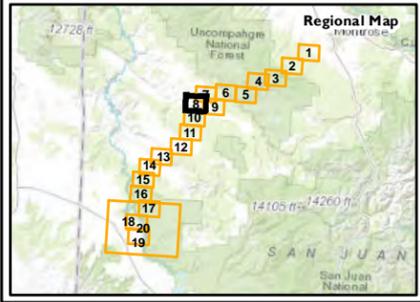
Map 8 of 20 - 1"=2000'

- Structures
 - ▲ Substation
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - State Route
 - Temporary Use Areas
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - County Boundary
 - Bureau of Land Management
- Access Road**
- Access Road
 - ATV Only
 - Construction Only
 - Existing Route Proposed for New Use
 - Proposed New Route
 - Authorized BLM Route (public)
 - Proposed Tri-State BLM Admin
 - XX No Down Line Access

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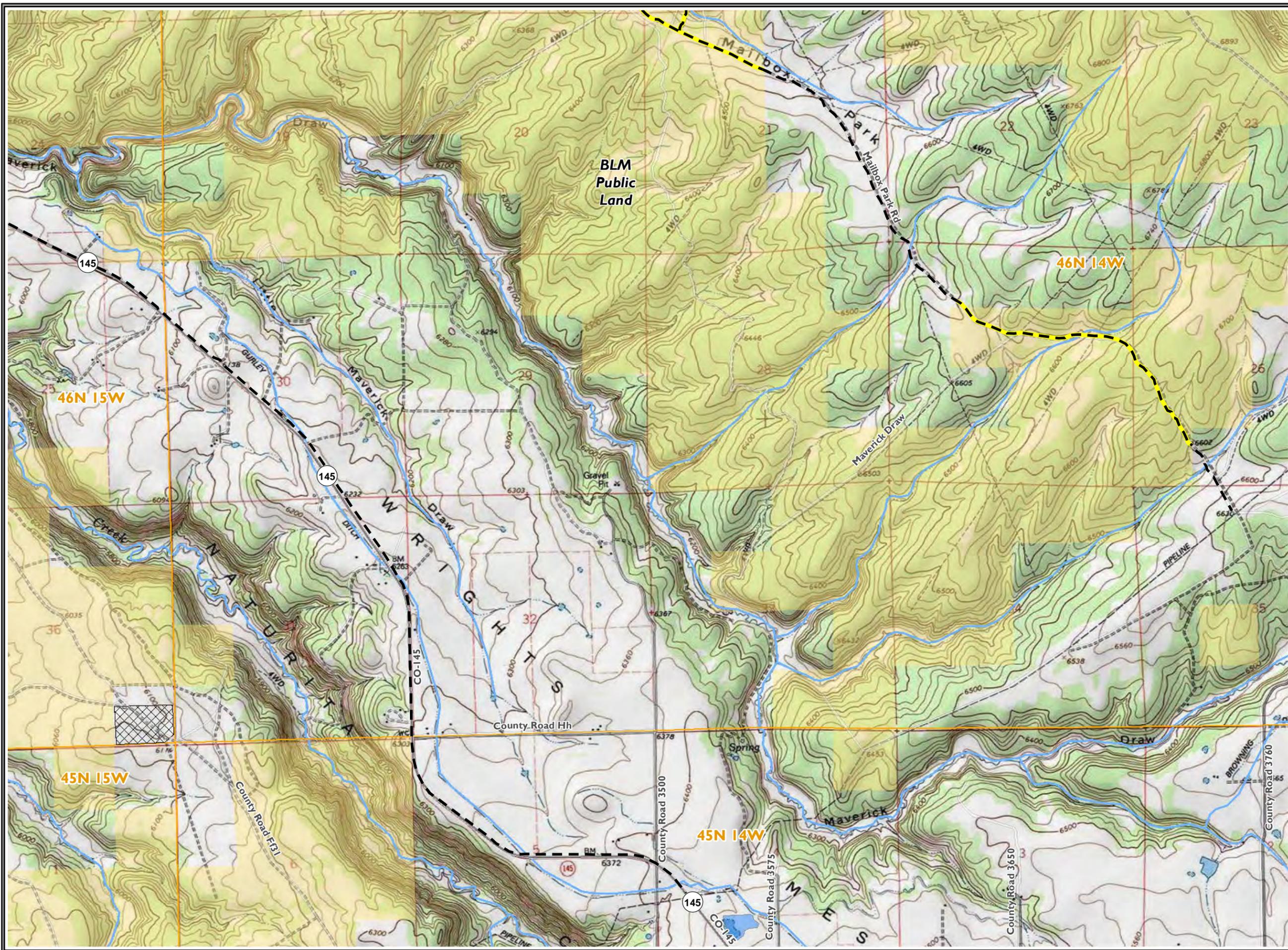
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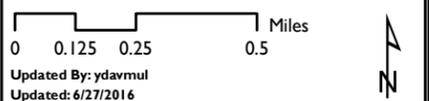
Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

Map 9 of 20 - 1"=2000'

-  State Route
-  Temporary Use Areas
-  Hydrology
-  Township/Range
-  BLM District Field Office
-  County Boundary
-  Bureau of Land Management
- Access Road**
-  Access Road
-  Authorized BLM Route (public)

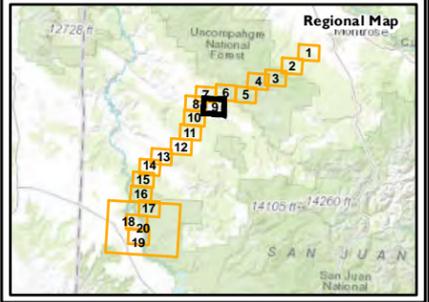


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Updated By: ydavlul
 Updated: 6/27/2016

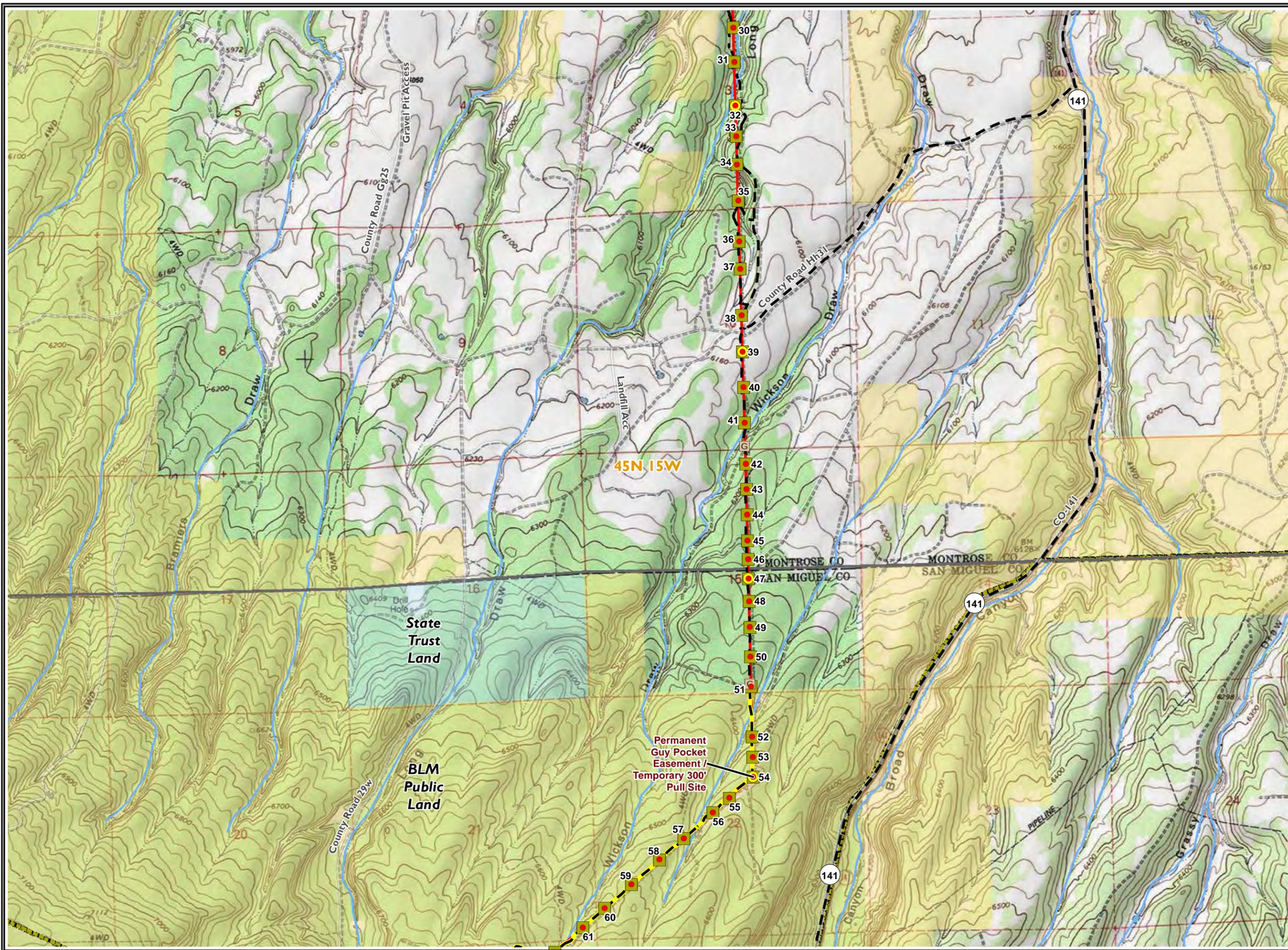
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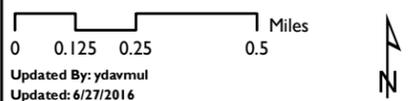
Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

Map 10 of 20 - 1"=2000'

- Structures
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - State Route
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - County Boundary
 - Bureau of Land Management
 - State Land
- Access Road**
- Access Road
 - Authorized BLM Route (public)

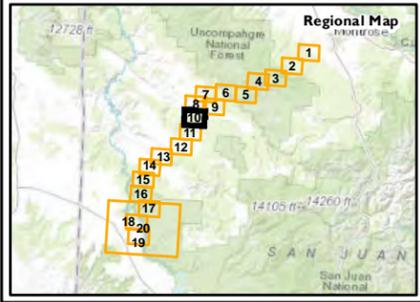


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Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

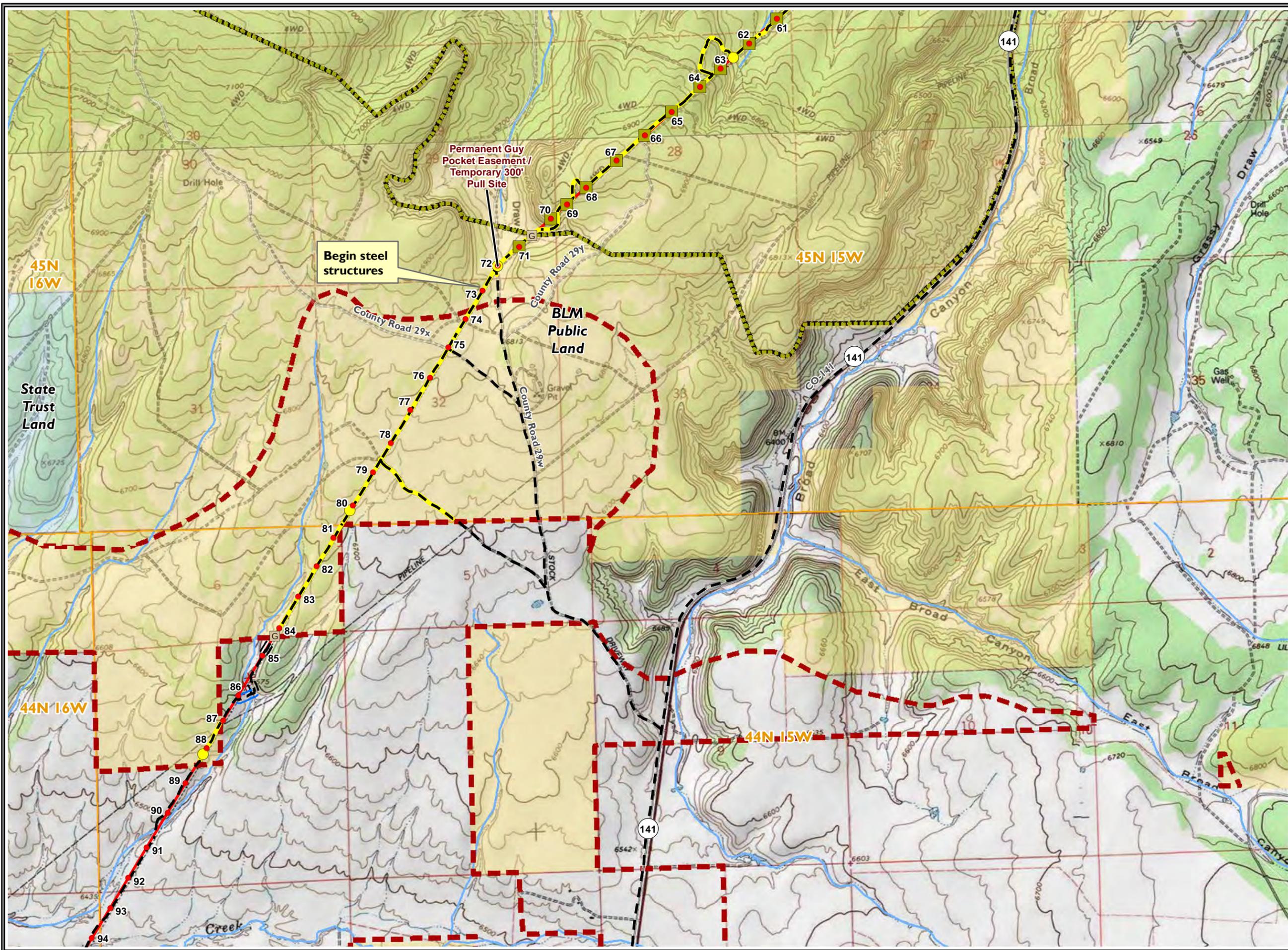
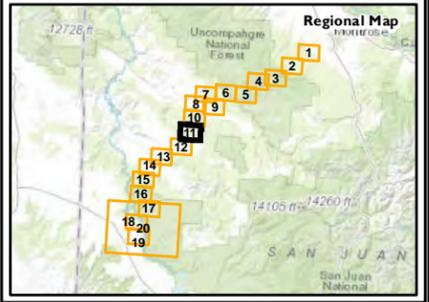
Map 11 of 20 - 1"=2000'

- Structures
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - State Route
 - Gunnison Sage Grouse- Critical Habitat
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - County Boundary
 - Bureau of Land Management
 - State Land
- Access Road**
- Access Road
 - Existing Route Proposed for New Use
 - Proposed New Route
 - Authorized BLM Route (public)
 - XX No Down Line Access

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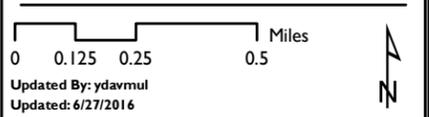


Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

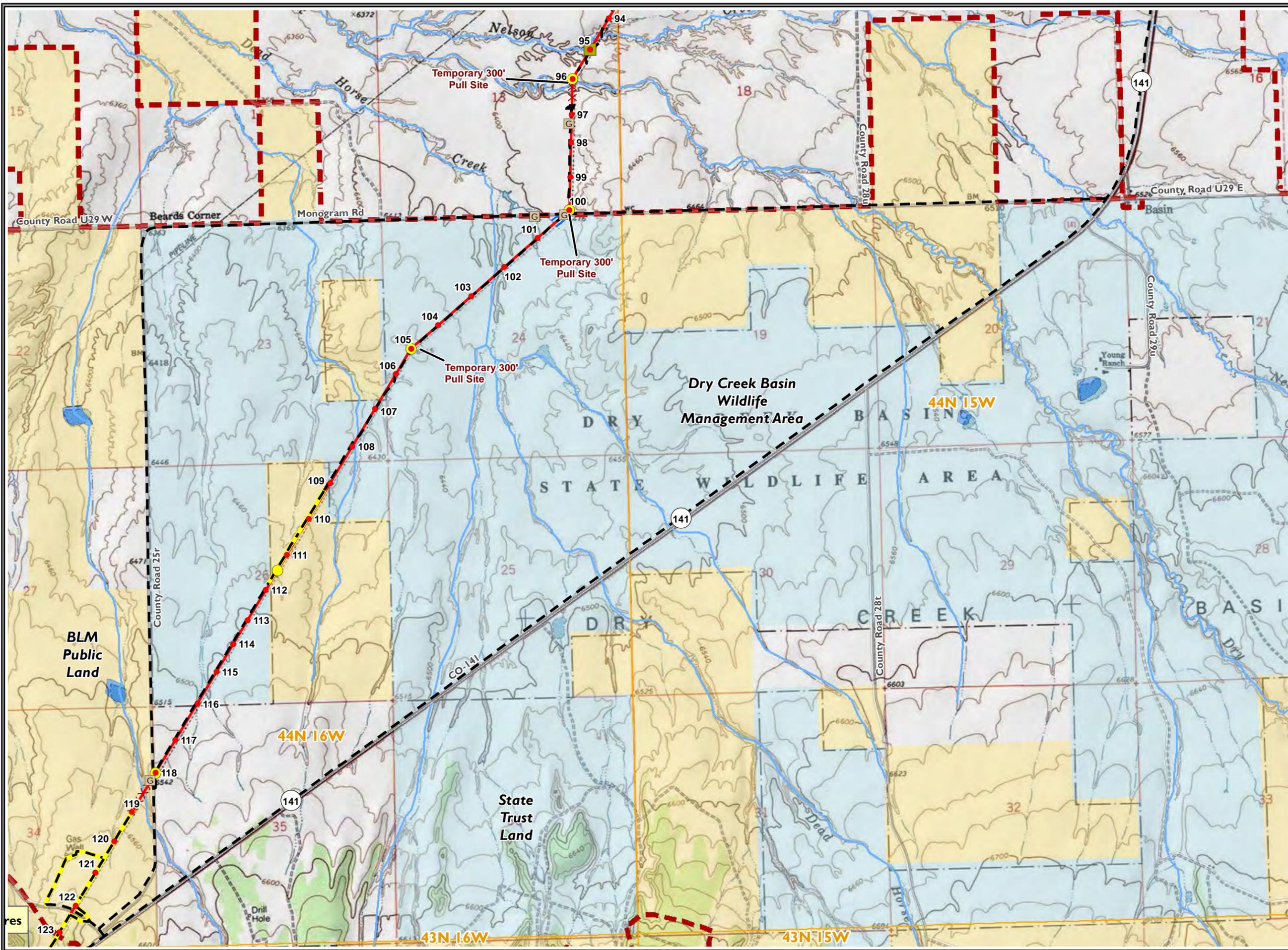
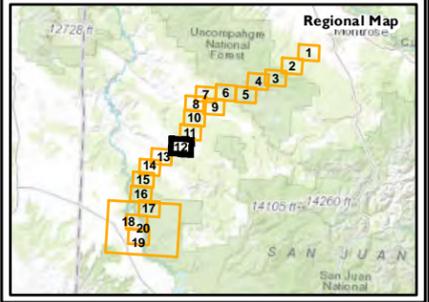
Map 12 of 20 - 1"=2000'

- Structures
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - State Route
 - Gunnison Sage Grouse- Critical Habitat
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - County Boundary
 - Bureau of Land Management
 - State Land
- Access Road**
- Access Road
 - Construction Only
 - Proposed New Route
 - Authorized BLM Route (public)
 - XX No Down Line Access

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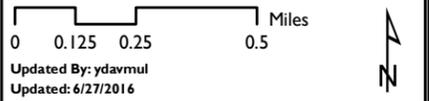


Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

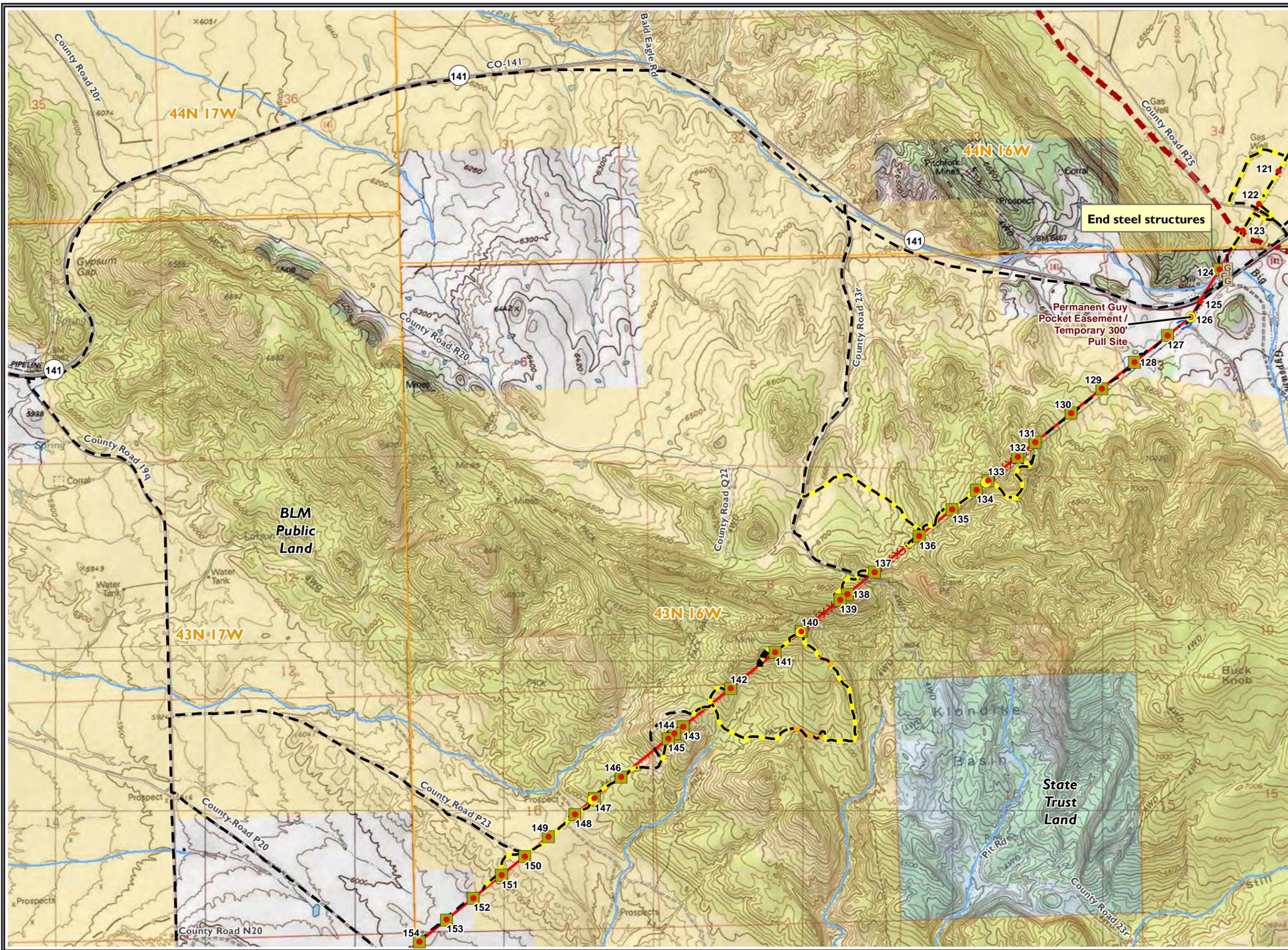
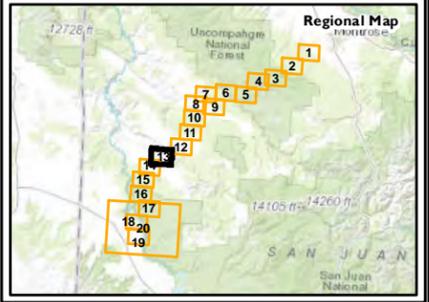
Map 13 of 20 - 1"=2000'

- Structures
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - State Route
 - Gunnison Sage Grouse- Critical Habitat
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - County Boundary
 - Bureau of Land Management
 - State Land
- Access Road**
- Access Road
 - Construction Only
 - Proposed New Route
 - Authorized BLM Route (public)
 - Proposed Tri-State BLM Admin
 - XX No Down Line Access

*Disclaimer: Data on maps represents preliminary engineering and may be modified in final POD



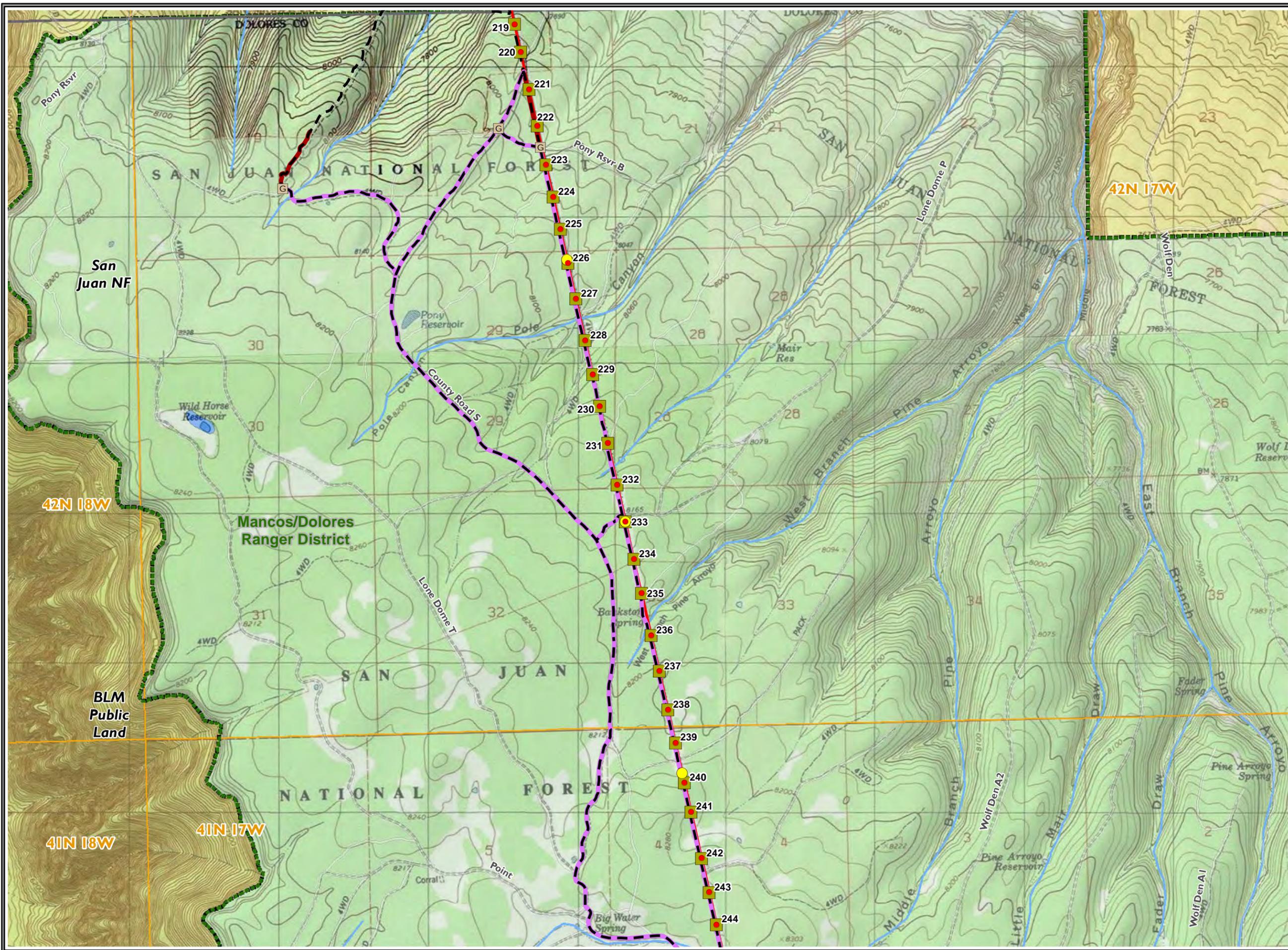
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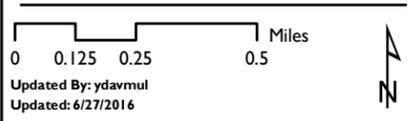
Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

Map 16 of 20 - 1"=2000'

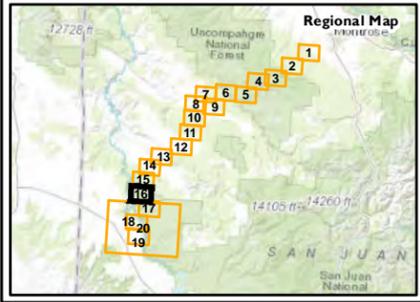
- Structures
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - USFS Ranger District
 - County Boundary
 - Bureau of Land Management
 - Forest Service (USFS)
- Access Road**
- Access Road
 - System Road (NFSR or Admin NFSR)
 - Proposed Special Use Route



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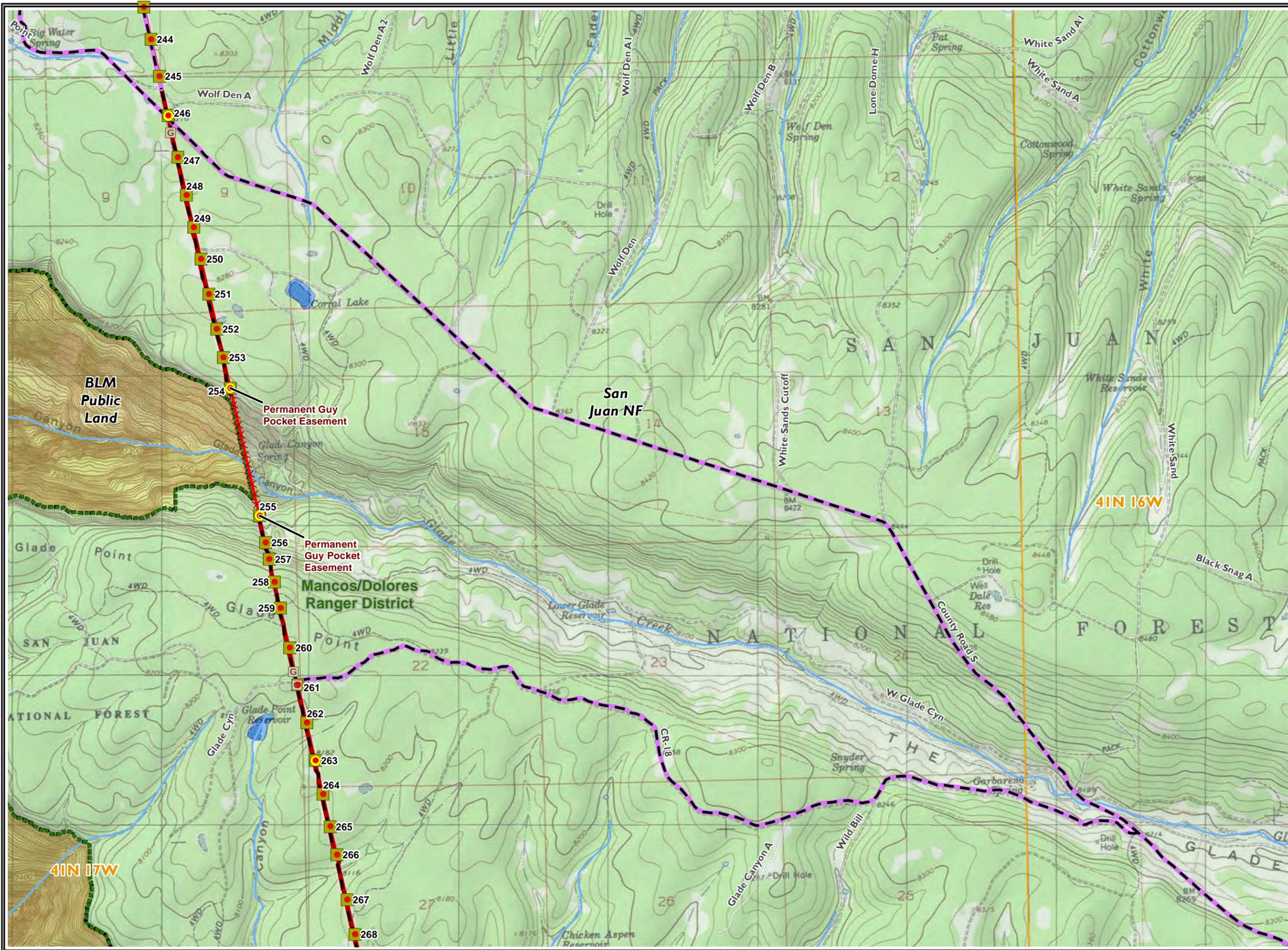
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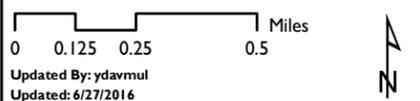
Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

Map 17 of 20 - 1"=2000'

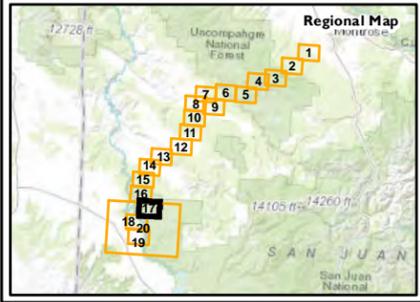
- Structures
 - G Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
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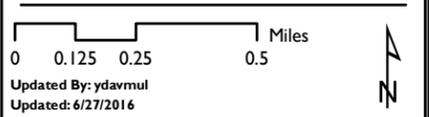


Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

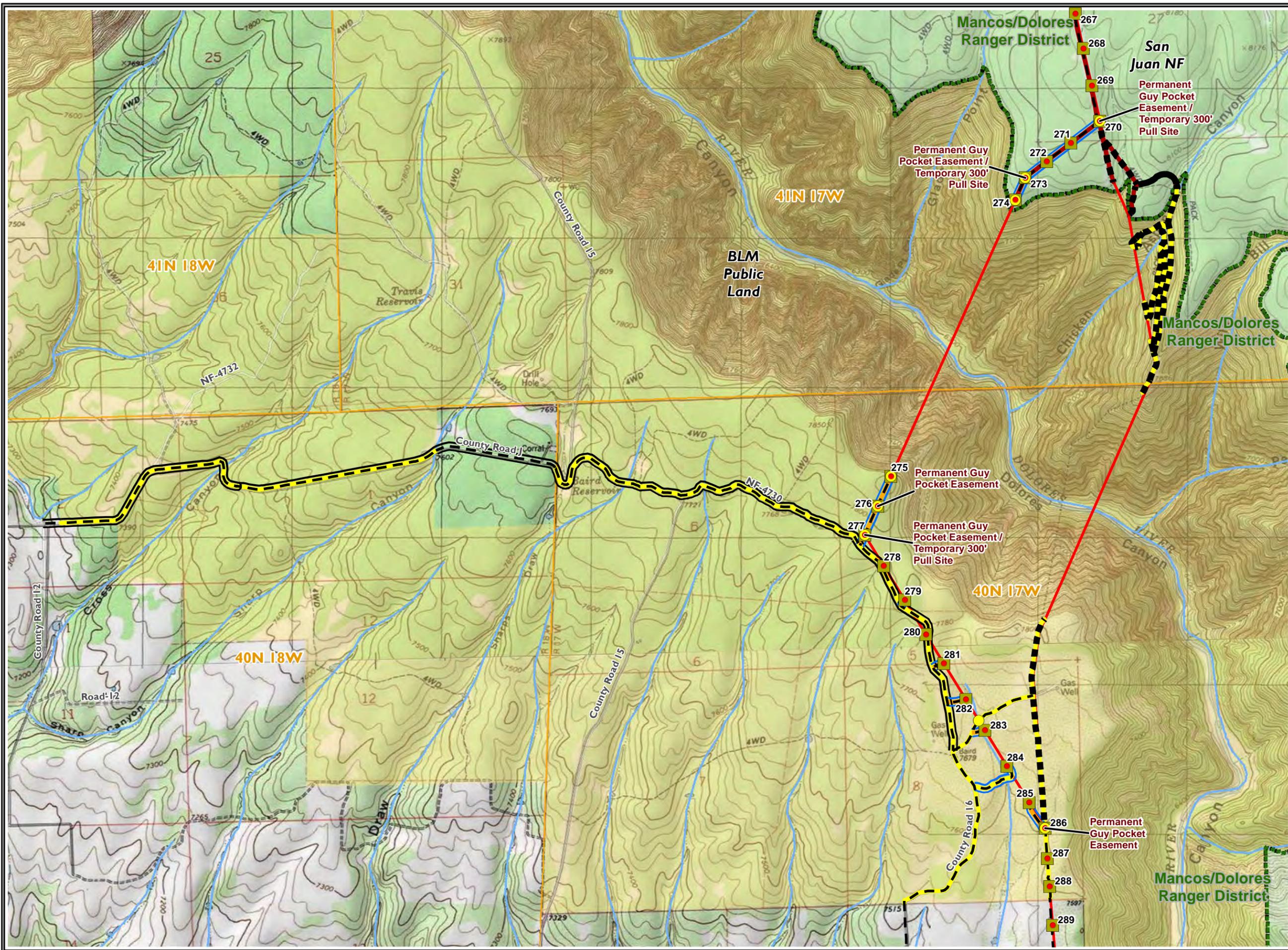
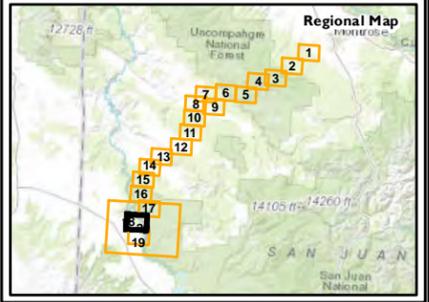
Map 18 of 20 - 1"=2000'

- Structures
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - USFS Ranger District
 - County Boundary
 - Bureau of Land Management
 - Forest Service (USFS)
- Access Road**
- Access Road
 - Construction Only
 - Existing Route Proposed for New Use
 - Proposed New Route
 - Authorized BLM Route (public)
 - Proposed Tri-State BLM Admin
 - Proposed Special Use Route

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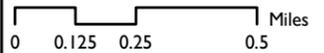


Tri-State Generation and Transmission
Montrose-Maverick-Cahone
POD Maps

Map 19 of 20 - 1"=2000'

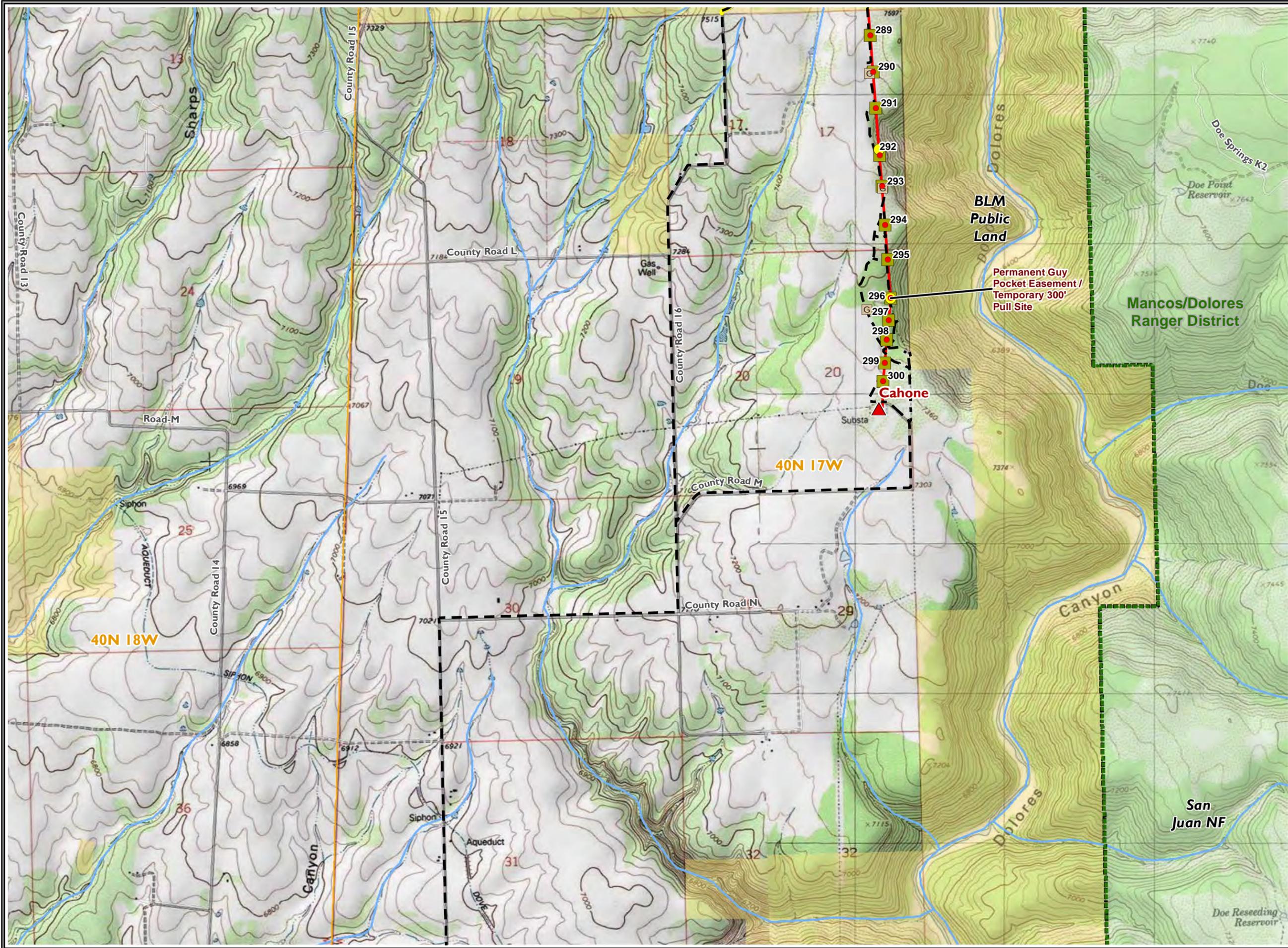
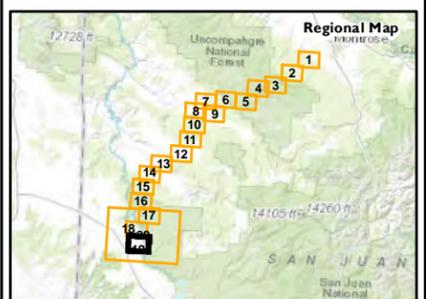
- Structures
 - ▲ Substation
 - Ⓜ Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - Hydrology
 - Township/Range
 - BLM District Field Office
 - USFS Ranger District
 - County Boundary
 - Bureau of Land Management
 - Forest Service (USFS)
- Access Road**
- Access Road
 - Proposed New Route
 - Authorized BLM Route (public)

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Updated By: ydvmul
 Updated: 6/27/2016

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Tri-State Generation and Transmission Montrose-Maverick-Cahone POD Maps

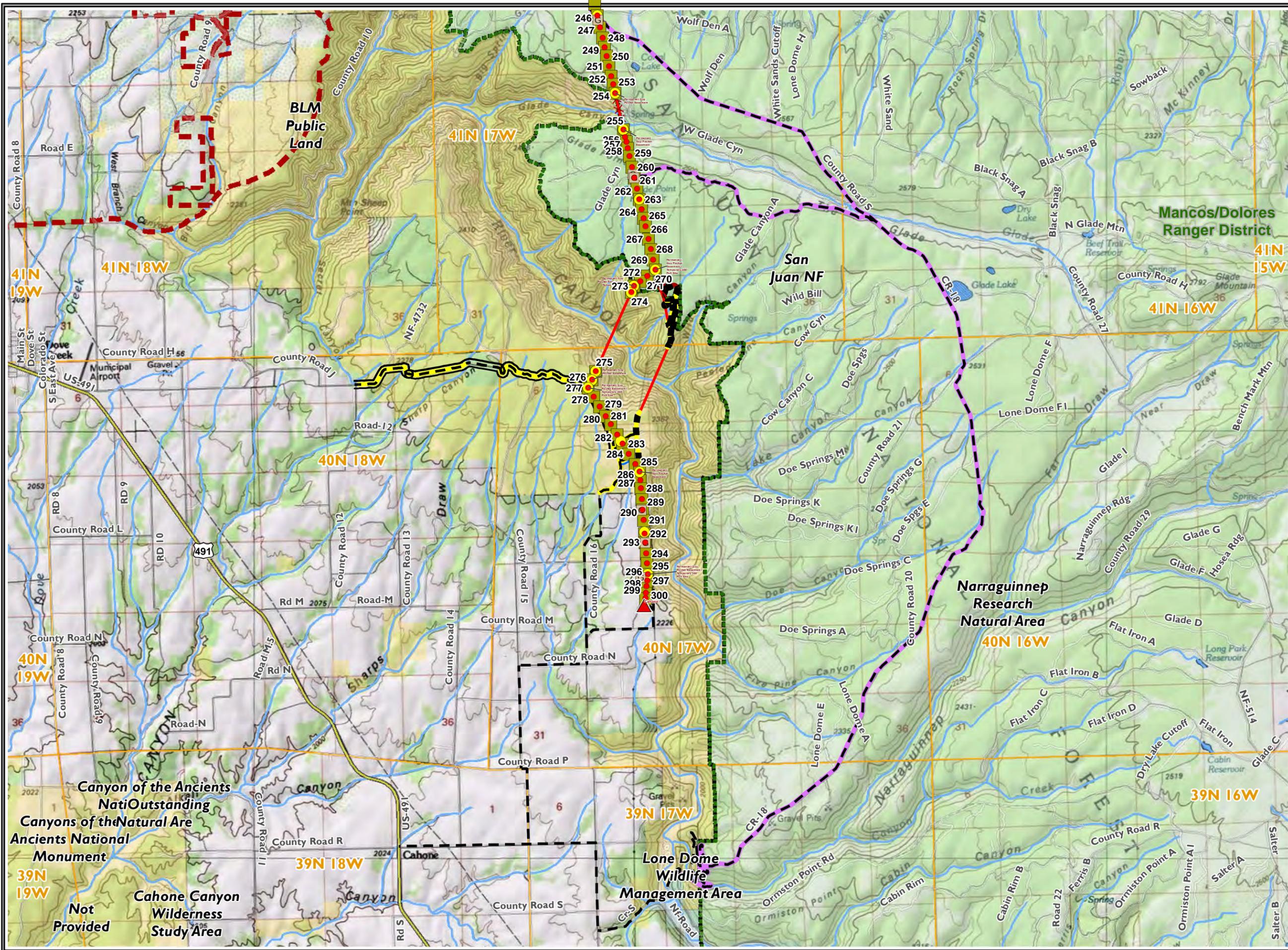
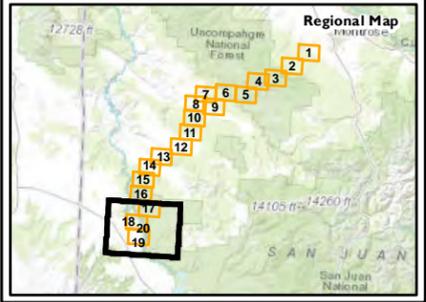
Map 20 Lone Dome Road 1"=7000'

- Structures
 - ▲ Substation
 - Ⓜ Gate
 - Geotechnical Testing Location
 - Pad Site
 - Transmission Center Line (150' ROW)
 - U.S. Highway
 - ▭ Gunnison Sage Grouse- Critical Habitat
 - ▭ Hydrology
 - ▭ Township/Range
 - ▭ BLM District Field Office
 - ▭ USFS Ranger District
 - ▭ County Boundary
 - ▭ Bureau of Land Management
 - ▭ Forest Service (USFS)
 - ▭ State Land
- ### Access Road
- Access Road
 - ▭ Construction Only
 - Existing Route Proposed for New Use
 - Proposed New Route
 - Authorized BLM Route (public)
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 - System Road (NFSR or Admin NFSR)
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**Tri-State Montrose-Nucla-Cahone Transmission Line
Improvement Project**

Plan of Development

Montrose, Ouray, San Miguel, and Dolores Counties, Colorado

Appendix X

Environmental Protection Measures

Appendix X

Environmental Protection Measures (EPMs)

The objective of Appendix X: Environmental Protection Measures (EPMs) is to provide a complete list of proponent-committed measures to address potential impacts from construction of the Tri-State Montrose-Nucla-Cahone Transmission Line Improvement Project (Project). Tri-State Generation and Transmission Association, Inc. (Tri-State) has developed these EPMs as part of the Plan of Development (POD) that accompanies their application to the Bureau of Land Management (BLM) for a Right of Way (ROW) grant. If the ROW grant is approved, the final POD and all appendices will be attached to the Decision Record. Table X-1 is a list of all EPMs that Tri-State has committed to through construction, operations and maintenance for the transmission line upgrade.

Table X-1. Environmental Protection Measures

Topic - No.	Applicant Committed EPMs And Design Features For Construction (C), Operation, And Maintenance (O&M)	Applicable to C and/or O&M*
<i>General</i>		
G-1	Tri-State and its contractors will comply with all federal, state and local environmental laws, orders and regulations. Tri-State will comply with applicable San Miguel, Dolores, and Montrose County Land Use Code provisions, and Special Use Permit conditions of approval. Prior to construction, all construction personnel will be instructed on the protection of cultural and ecological resources.	C and O&M
G-2	Tri-State will discuss with the Contractor/Maintenance staff areas of environmental sensitivity within the project area, and, in particular, those areas where a monitor must be present during construction and future heavy maintenance.	C and O&M
G-3	Tri-State will contract an agency approved and qualified transmission construction environmental monitor who will be present at all times when working on federal and state lands as well as on private lands when work will occur in proximity to sensitive biological, paleontological or cultural resources. The environmental monitor will be responsible for keeping Tri-State and its contractors in compliance with the Final POD and associated permits/easements. The environmental monitor will report any compliance concerns to the agencies' authorized representative and Tri-State's chief environmental compliance officer concurrently within 24 hours or less of all reportable violations. The environmental monitor will be given full authority to halt construction if an activity will result in non-compliance with any terms of grants, permits, easements and associated committed environmental protection and mitigation measures approved for the project. Tri-State would also employ a monitor for "heavy maintenance" activities in sensitive habitat including historic properties/eligible cultural resources.	C
G-4	Tri-State and its contractors will adhere to the Final POD which includes keeping all construction and future maintenance activities within the permitted transmission and access road ROWs. Any deviation from the Final POD will require submittal and approval of a variance request to the BLM/USFS. The Final POD will include environmental protection measures (EPMs) applicable to future routine and emergency maintenance activities including vegetation management. All construction plans will be approved by the agencies before the Notice to Proceed (NTP) is issued by BLM.	C and O&M

Topic - No.	Applicant Committed EPMs And Design Features For Construction (C), Operation, And Maintenance (O&M)	Applicable to C and/or O&M*
G-5	The project will be planned, constructed, operated, and maintained in accordance with the Finding of No Significant Impact (FONSI), ROW grant (BLM), special use authorization (USFS), and requirements of other federal, state and local permitting agencies.	C and O&M
G-6	Tri-State will notify the BLM, USFS, and appropriate landowners regarding the schedule and scope of work for construction of the transmission line as well as for future major maintenance activities. A pre-construction meeting will be held with Tri-State, its contractors, environmental monitors, and agency representatives to review environmental and land use compliance for the project.	C and O&M
<i>Access Routes (also see Traffic section, T-1 and T-2)</i>		
AR-1	No construction or heavy maintenance activities will be performed during periods when the soil is too wet to adequately support equipment and vehicles. If equipment or vehicles create ruts in excess of 4 to 6 inches deep for a distance of 10 feet on native surface roads, the soil will be deemed too wet to adequately support construction equipment. If equipment or vehicles create ruts in excess of 2 inches deep on graveled roads, the roads will be deemed too wet to support construction equipment.	C and O&M
AR-2	Only the minimum amount of soils and vegetation necessary for the construction and maintenance of the access routes and the safe and reliable operation of transmission line will be disturbed. If excavation is necessary, topsoil (if present) will be conserved and reused as cover on disturbed areas to facilitate re-growth of vegetation. Vegetation will be cleared from those areas necessary to obtain adequate working width and turning radius space for maintenance equipment and allow for the safe operation of the transmission line.	C and O&M
AR-3	Tri-State's construction contractor and maintenance crews will be required to remain within authorized access ROWs. Access outside of permitted access ROWs will need to be approved by the affected land management agency/owner prior to use. Future maintenance work will also occur entirely within the transmission and access ROWs unless otherwise authorized by the affected agency/landowner.	C and O&M
AR-4	Tri-State and its contractor(s) will work with the BLM and USFS regarding travel restrictions as well as the need, location and type of closure devices that will be utilized and installed to protect key areas along access roads and to clarify which roads are being used for administrative purposes only. Tri-State will provide funding for closure devices and informational signage. All rights-of-way will be maintained to allow BLM and USFS personnel access at any time, especially in the event of emergencies (e.g. fires).	C and O&M
AR-5	Tri-State will design, construct and maintain access roads to BLM/USFS road standards through coordination with the authorized agencies road engineer and obtain design approval from the relevant agency road engineer prior to construction. In areas where more than 3 feet of grading is required (Tri-State improvement Level 3b), Tri-State will coordinate with the BLM and USFS engineers prior to the initial work on the ground to strategize on how the work can be accomplished with the minimum amount of surface disturbance. Tri-State will use the USFS/USID's (United States Agency for International Development) Low-Volume Road Engineering: Best Management Practices Field Guide and the BLM Gold Book to minimize soil losses, erosion and unstable slope conditions. These measures include: maintenance of soil erosion features such as dips and cross drains, repair of ditches, clearing of culverts and avoiding maintenance during wet periods.	C and O&M
AR-6	Tri-State will work with the USFS to maintain locked gates to restrict access south of the Big Water Springs Road and on both sides of Forest Road 509 in the San Juan National Forest (east of Dolores Canyon).	C and O&M

Topic - No.	Applicant Committed EPMs And Design Features For Construction (C), Operation, And Maintenance (O&M)	Applicable to C and/or O&M*
AR-7	<p><i>Emergency Maintenance Access:</i></p> <p>Emergency access will be allowed during any time of the year. In the event of an emergency, Tri-State and its contractor(s) will notify the BLM and/or USFS/landowner as soon as possible. Tri-State will meet with BLM and/or USFS/landowner onsite after an emergency to determine the required rehabilitation work and to establish a rehabilitation schedule.</p> <p>If emergency access to the transmission line is required during wet weather, or if other maintenance activities result in the removal of vegetation, or substantial vehicle impacts to existing native vegetation, revegetation of disturbed areas will be completed as directed by the BLM/USFS or affected landowner. Reclamation and revegetation will be implemented, as required, as soon as practical after any emergency road access or maintenance work needed to repair the transmission line.</p> <p>If emergency line maintenance is required during the winter or spring months, care will be taken to minimize erosion and sedimentation to the extent practicable and effects will be mitigated after the emergency has been resolved in coordination with the affect land management agency or landowner.</p>	O&M
<i>Aesthetics/Visual Resources</i>		
A-1	Tri-State and its contractors will exercise care to preserve the natural landscape, and will conduct construction operations so as to prevent any unnecessary destruction, scarring or defacing of the natural surroundings in the vicinity of the work. Except where clearing is required for permanent work, approved temporary or permanent construction roads, staging areas or excavation operations, vegetation will be preserved and will be protected from damage by the contractor's construction operations and equipment.	C
A-2	Tri-State and its contractor(s) will minimize scarring, defacing, damage, or destruction of the natural landscape resulting from construction operations; any unnecessary or unauthorized disturbance will be repaired by the contractor to the satisfaction of the agency authorized officer.	C
A-3	All construction and future maintenance materials, waste, and debris will be removed from the project area in a timely manner. Burning or burying of waste materials on the ROW or construction sites will not be allowed. All materials resulting from the contractor's clearing operations will be removed from the ROW.	C and O&M
A-4	Structures and access roads will be located and designed to conform to the terrain and to minimize visual effects whenever possible. Specifically, visibility from Key Observation Points (KOPs) will be considered at the Dolores River crossing. (See A-6). Leveling and benching of the structure sites will be done to the minimum extent necessary to allow for construction and future maintenance operations. Existing cleared or disturbed areas will be used to the extent practicable for staging areas and other temporary use areas.	C
A-5	Tri-State and its contractor(s) will attempt to manage vegetation within the ROW in a manner that reduces the visual effect by only removing non-compatible vegetation that could pose a threat to the transmission line in the next 10 years and leaving compatible vegetation in the ROW. The first priority is to allow Tri-State to meet their federal reliability standards for vegetation management within and adjacent to the transmission ROW.	C and O&M

Topic - No.	Applicant Committed EPMs And Design Features For Construction (C), Operation, And Maintenance (O&M)	Applicable
A-6	In order to minimize visual effects from the transmission line from a design perspective, Tri-State has committed to utilizing non-specular conductor, applying acid-etched galvanized finish or weathering finish to all steel structures including steel fence, and using gray porcelain insulators.	C
A-7	EPM VG-2 through VG-9 will minimize visual effects from project construction and operation by reclaiming areas of temporary disturbance and minimizing vegetation removal to tall woody vegetation required for the safe construction, operation, and maintenance of the transmission line.	C and O&M
A-8	The alignment of any new access roads will follow the designated area's landform contours where practical, provided that such alignment does not additionally affect resource values. This will minimize ground disturbance and reduce scarring (visual contrast).	C
<i>Air Quality</i>		
AQ-1	Tri-State and its contractor(s) will utilize practicable methods and devices as are reasonably available to control, prevent, and otherwise minimize atmospheric emissions or discharges of air contaminants.	C and O&M
AQ-2	Possible construction related dust disturbance will be controlled by the periodic application of water to all disturbed areas along the ROW and access roads, thus preventing any visible dust plumes from project-related traffic or excavation activities.	C
AQ-3	Vehicles and equipment showing excessive emission of exhaust gases due to poor engine adjustments or other inefficient operating conditions will not be operated until corrective adjustments or repairs are made.	C and O&M
AQ-4	Post seeding mulch or other approved methods will be utilized during reclamation activities to help reduce wind erosion and blowing dust. Soil stabilization will be performed as soon as possible after completion of project activities to minimize potential fugitive dust generation as re-vegetation occurs.	C and O&M
AQ-5	The contractor will turn off equipment when it is not in use.	C and O&M
AQ-6	When wind speeds exceed 20 miles per hour (mph), Tri-State and contractors will minimize new disturbance to the extent possible and/or mobilize additional water trucks to minimize fugitive dust from exposed surfaces. Also see AQ-4.	C
<i>Biological Resources and Federally Listed Species</i>		
BR-1	Tri-State and its contractor(s) will also restrict construction activities and future major routine maintenance activities in elk production areas on lands administered by the USFS and BLM administered lands in lands in accordance with the respective Resource Management Plans and Land Management Plans. These timing restrictions on federal lands will be adhered to whenever feasible and a waiver will be required from the land management agency in coordination with Colorado Parks and Wildlife (CPW) if construction needs to occur in sensitive big game habitats during sensitive time periods. Prior to the Notice to Proceed, Tri-State will update the POD atlas to identify seasonal restrictions for big game per direct guidance from the USFS, BLM, and CPW.	C and O&M

Topic - No.	Applicant Committed EPMs And Design Features For Construction (C), Operation, And Maintenance (O&M)	Applicable to C and/or O&M*
BR-2	<p>To ensure compliance with the Migratory Bird Treaty Act, Tri-State and its contractor(s) will incorporate BLM, USFS, CPW, and US Fish and Wildlife Service (USFWS) guidelines for raptor protection if construction occurs during the breeding season.</p> <p>Raptor nest surveys will be conducted prior to construction. If an active raptor nest is found within the project area, seasonal buffers and timing restrictions will be determined through coordination with the affected agency and will utilize guidance as outlined in CPW's Recommended Buffer Zones and Seasonal Restrictions for Colorado Raptors (CPW 2008) on BLM UFO, private, State, and USFS administered lands. Separate guidance will be followed on lands in the BLM Tres-Rios Field office (TRFO). Buffers will be determined according to species, existing disturbance in the area, and line of sight. If complete avoidance of a buffer is not feasible, a qualified biological monitor could be used to observe the nest during construction activities to ensure the activity does not disturb nesting activities. The biological monitor will have the authority to halt or modify construction if an activity is likely to result in nest abandonment.</p>	C and O&M
BR-3	<p>No bald or golden eagle nests are known to occur within 0.5 mile of any portion of the project. Surveys will be conducted prior to construction to identify any active nest or roost location within 0.5 miles of the transmission ROW and associated access roads. If an active eagle nest is found prior to construction, no work will be permitted within 0.5 mile of the active nest from December 15 through July 15 unless otherwise authorized by the USFWS.</p> <p>Historically, bald eagle communal roosting site and winter concentration areas have been documented along the San Miguel and Dolores Rivers, Wrights Mesa, Dry Creek Basin, and Disappointment Valley. Activity will be restricted from November 15 through March 15 if an active communal roost is found within 0.5 miles the proposed project activities during pre-construction surveys unless otherwise authorized by the USFWS.</p> <p>If complete avoidance of a nest or roost buffer is not feasible, the USFWS will be contacted to approve a modified buffer or approve use of a qualified biological monitor to observe the nest during construction activities to ensure the activity does not disturb nesting activities. The biological monitor will have the authority to halt or modify construction if an activity is likely to result in nest abandonment. If USFWS determines take may occur, Tri-State will obtain an eagle take permit from the USFWS prior to construction. The same process will apply to future major maintenance activities.</p>	C and O&M
BR-4	<p>Once pre-construction surveys have been completed, the Final Construction Constraints Atlas will be updated to reflect appropriate seasonal restrictions and buffers to ensure construction activities are in compliance with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. Seasonal avian restrictions will also apply to heavy maintenance activities as defined in the POD.</p>	C and O&M
BR-5	<p>On State owned lands, USFS, and private property, if a prairie dog colony is found within the project area prior to construction, and construction is scheduled to occur during the breeding season for burrowing owls (April 1 through September 1), surveys will be conducted using CPW's approved protocol.</p> <p>If prairie dog colonies occur on BLM lands, burrowing owl surveys will be conducted using protocol from the TRFO BLM. If an active nesting burrow is found, it will be avoided by a buffer of 0.25 miles from March 15 through August 15 or until the young have fledged and left the nest.</p>	C and O&M
BR-6	<p>In order to preclude avian electrocutions and minimize collision risk, Tri-State has incorporated guidelines developed by the Avian Power Line Interaction Committee (APLIC) and USFWS (APLIC 2012) to protect birds on power lines.</p>	C

Topic - No.	Applicant Committed EPMs And Design Features For Construction (C), Operation, And Maintenance (O&M)	Applicable to C and/or O&M*
BR-7	The construction contractor will be required to avoid active burrows whenever feasible within the ROW during project construction to minimize impacts to ground dwelling species.	C
BR-8	Structure holes will be covered when work is completed each day to prevent entrapment of wildlife.	C
BR-9	Impacts to wildlife and special status species habitats will be minimized through incorporation of EPMs included under Vegetation and Water Resources.	C and O&M
BR-10	If vegetation removal occurs during the spring and summer months, Tri-State will conduct pre-construction surveys to ensure compliance with the Migratory Bird Treaty Act. Tri-State will map active nests and flag and avoid any active nests identified.	C and O&M
BR-11	Tri-State and its contractors will site transmission structures and access roads to avoid BLM/USFS sensitive plant species to the greatest extent feasible. Where sensitive plants are located adjacent to the transmission structures or access roads, fencing/ropes/signs will be installed to prevent construction crews from impacting BLM/USFS sensitive plants. Management of fugitive construction dust as discussed under water resources and quality will also minimize indirect effects to sensitive plant species.	C
BR-12	Emergency maintenance activities will be permitted any time of year to ensure electric reliability and to protect the public health and safety. Examples of emergency maintenance activities include wires on the ground, structure repairs required as a result of severe weather incidents and vandalism activities. The affected agencies will be notified as soon as possible, but within 48 hours of the activities occurring and any required reclamation will be completed as soon as possible.	O&M
<i>Gunnison Sage-Grouse</i>		
GUSG-1	Tri-State will utilize single-pole structures to reduce perching surfaces for GuSG avian predators through Dry Creek Basin.	C
GUSG-2	Tri-State and its contractor(s) will install perch discouragers on the horizontal portions of the steel structure including the pole tops in Dry Creek Basin.	C
GUSG-3	Tri-State will utilize self-supporting steel structures in GuSG occupied habitat to reduce GuSG and other avian and wildlife collisions with guy wires.	C
GUSG-4	The project will comply with the 0.6-mile No Surface Occupancy Buffer for lek sites and there are no access roads proposed within 0.6-mile of an active lek. In addition, the project does not occur within 0.6 miles of riparian habitat or documented GuSG concentration areas.	C
GUSG-5	Tri-State's transmission line and access road construction along the existing alignment will not occur within occupied habitat from March 1 through June 30th.	C
GUSG-6	Planned heavy maintenance activities by Tri-State's and its contractor(s) including structure replacement, cross arm replacement, and replacement/re-pair of the conductor/fiber optic cable (OPGW) will not occur March 1 through June 30 in GuSG occupied habitat. Light maintenance activities such as annual inspections, hardware tightening, pole testing, and insulator replacement will be permitted year-round. However, during the lekking season, these activities will occur after 10:00 a.m.	O&M

Topic - No.	Applicant Committed EPMs And Design Features For Construction (C), Operation, And Maintenance (O&M)	Applicable to C and/or O&M*
GUSG-7	Emergency maintenance activities will be permitted any time of year to ensure electric reliability and to protect the public health and safety. Examples of emergency maintenance activities include wires on the ground and structure repairs required as a result of severe weather incidents and vandalism activities. The affected agencies will be notified within 48 hours of the activities occurring and any required reclamation will be completed as soon as possible.	O&M
GUSG-8	Maintenance and construction crews will be required to drive 35 miles per hour (mph) or less on all roads associated with GuSG occupied habitat in Dry Creek Basin (with the exception of SH 141) to minimize vehicle collisions with GuSG.	C and O&M
GUSG-9	An agency approved environmental monitor will be present at all times during construction in GuSG occupied habitat to ensure compliance with any and all environmental protection and mitigation measures identified in the Environmental Assessment (EA) and Biological Assessment (BA). The environmental monitor is given full authority to stop or modify construction activities that may be affecting GuSG and other sensitive resources.	C
GUSG-10	Construction and maintenance crews will be required to go through formal environmental training prior to the initiation of construction and maintenance activities in GuSG habitat to ensure compliance with all approved EPMs and mitigation measures for the project.	C and O&M
GUSG-11	Any areas disturbed during project construction and future maintenance activities will be reclaimed using an approved weed-free native seed mix beneficial to GuSG, as provided by the affected land management agency/landowner.	C and O&M
GUSG-12	Tri-State and its contractor(s) will treat noxious weeds infestations per NW-1 through NW-8 to minimize habitat effects impacts to GuSG.	C and O&M
GUSG-13	Tri-State will monitor and maintain the condition of the perch discouragers for the life of the transmission line. Tri-State in coordination with BLM and CPW will monitor the efficacy of the perch discouragers installed in occupied habitat for GuSG for two years. This will include one year of pre-construction monitoring to evaluate current perching activity on the existing 115-kV line.	O&M
GUSG-14	A draft GuSG design minimization and conservation strategy has been prepared by Tri-State for the existing alignment through Dry Creek Basin. This draft minimization strategy can be found in the <i>Biological Resource Plan, Appendix B</i> .	C and O&M
GUSG-15	<p>Establish and implement a fire prevention and suppression plan for construction and future heavy maintenance activities. Adhere to seasonal fire restrictions and stipulations which may include:</p> <ul style="list-style-type: none"> • Educate crews how to enforce and practice appropriate fire prevention and suppression actions and behavior. • Minimize idling during construction and routine maintenance activities. • Park vehicles in designated parking or construction areas. Avoid parking over tall, dry vegetation. • Implement use of spark arrestors. 	C and O&M
GUSG-16	Any areas disturbed during project construction and future maintenance activities will be reclaimed using an approved weed-free, native seed mix as provided by the affected land management agency/owner.	C and O&M
GUSG-17	Tri-State will design access and pad sites for structures locations in a manner that minimizes effects to the greatest extent feasible while also allowing for the safe operation of construction of maintenance and construction equipment.	C

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<i>Cultural Resources</i>		
CR-1	Prior to construction and future heavy maintenance activities, all construction personnel will be instructed on the protection of cultural and paleontological resources with reference to relevant laws and penalties, and the need to cease work in the location if cultural resource items are discovered.	C and O&M
CR-2	Should any previously unknown historic/prehistoric sites or artifacts be encountered during construction, all land altering activities at that location will be immediately suspended and the discovery left intact until such time that the appropriate land management agency is notified and appropriate measures taken to assure compliance with the National Historic Preservation Act and enabling legislation.	C and O&M
CR-3	Cultural Resources—Inadvertent Discovery: Pursuant to 43 Code of Federal Regulations (CFR) 10.4 (g); Tri-State will notify the authorized officer, by telephone with written confirmation, immediately upon the discovery of human remains, funerary items, sacred objects, or objects of cultural patrimony or possible vertebrate fossils. Further, pursuant to 43 CFR 10.4 (c) and (d), Tri-State will stop activities in the vicinity of the discovery and protect it until notified to proceed by the authorized officer.	C and O&M
CR-4	Sensitive cultural resource locations (historic properties) in proximity to the area of potential effect will be flagged prior to construction and major maintenance activities to ensure avoidance. A qualified and agency approved cultural resource monitor will be on site when construction activities are planned in proximity to cultural resources to ensure historic properties are not disturbed.	C and O&M
CR-5	Cultural resource inventories will be completed for areas that were not previously surveyed and the existing treatment plan will be appended to include newly documented areas of unavoidable disturbance to historic resources. The Memorandum of Agreement (MOA) and agency approved appended treatment plan will be updated and implemented prior to the start of any construction activities.	C
CR-6	Tri-State and its contractors will comply with the historic properties treatment plan approved by the BLM, USFS, and the State Historic Preservation Office (SHPO) to ensure unavoidable effects to historic properties are properly mitigated.	C and O&M
CR-7	Construction activities within the boundaries of historic properties will be limited to permitted access roads or noncontributing areas of sites, or mitigated or monitored as specified in the Treatment Plan for any off-road travel necessary."See also AR-1 which addresses rutting in wet road conditions.	C
CR-8	To the extent feasible, as allowed by transmission line design requirements, Section 106 implementing procedures (36 CFR 800) will be followed for the portions of the area of potential effect not yet surveyed.	C
<i>Fire Prevention/Control</i>		
FP-1	Construction vehicles will be equipped with government approved spark arrestors.	C and O&M
FP-2	Tri-State and its contractor(s) will maintain in all construction and maintenance vehicles a current list of local emergency response providers and methods of contact/communication.	C and O&M
FP-3	A fire plan is included in the Final POD and will be adhered to during transmission construction and maintenance activities.	C and O&M

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FP-4	<p>The following procedures will be followed by Tri-State and its contractors to reduce fire danger during project construction and future maintenance activities:</p> <ul style="list-style-type: none"> • The BLM, USFS, and CPW will be kept apprised of Tri-State work locations during times of high fire danger to provide for evacuation purposes and fire alert opportunities. • The nearest federal agency as well as the local fire department will be notified in the event a construction or maintenance crew observes a lightning strike or other suspicious smoke. • Tri-State’s contractors and maintenance crews will avoid parking hot vehicles in contact with dry vegetation. • Vegetation will be removed around the structure (roughly a 75-foot radius) to allow bucket truck access which will help minimize effects to the power line in the event of a wildfire. • Vegetation management within and adjacent to the ROW will minimize risk to the transmission line and federal, state, and private lands. 	C and O&M
<i>Hazardous Materials</i>		
HM-1	<p>Tri-State and its contractors will comply with all applicable federal laws and regulations existing or hereafter enacted or promulgated regarding toxic substances or hazardous materials during both construction and future maintenance activities. In any event, Tri-State and its contractors will comply with the Toxic Substance Control Act of 1976, as amended (15 United States Code 2601, et seq.) with regard to any toxic substances that are used, generated by or stored on the ROW or on facilities authorized under this ROW grant (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 will be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, section 102b. A copy of any report required or requested by any federal agency or state government as a result of a reportable release or spill of any toxic substance will be furnished to the authorized officer concurrent with the filing of the reports to the involved federal agency or state government.</p>	C and O&M
HM-2	<p>No bulk fuel storage will occur within the public lands portion of the ROW project. All fuel and fluid spills within this area will be handled in accordance with appropriate state and federal spill reporting and response requirements. Tri-State’s contractor will notify Tri-State of any spills so appropriate notifications can be made to the appropriate regulatory authorities/landowners and managers.</p>	C and O&M

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HM-3	<p>The following hazardous materials management procedures will be used during maintenance and operation activities:</p> <ul style="list-style-type: none"> • Storage of hazardous materials, chemicals, fuels, and oils and fueling of construction equipment will not be performed within 100 feet of an ephemeral drainage. • An effort will be made to store only enough products required to do the job. • Materials will be stored in a neat, orderly manner, in appropriately closed containers, in secondary containment and, if possible, under a roof or other enclosure. • Products will be kept in their original containers with the original manufacturer's label. • Substances will not be mixed with one another unless recommended by the manufacturer. • Whenever possible, all of the product will be used up before disposing of the container. • Manufacturer's recommendations for proper use of a product will be followed. • If surplus product must be disposed of, local and state recommended methods for proper disposal will be followed. 	C and O&M
HM-4	Any waste generated as a result of the project will be properly disposed in a permitted facility. Solid waste generated during construction and periodic maintenance periods will be minimal. All hazardous materials will be handled in accordance with applicable local, state, and federal hazardous material statutes and regulations.	C and O&M
<i>Land Use</i>		
LU-1	All activities associated with the construction, operation and maintenance of the transmission line will take place within the authorized limits of the transmission line ROW and access routes. Additional access routes or cross-country travel will not be allowed outside of the authorized routes prior to review and approval by the affected land management agency authorized officer/landowner.	C and O&M
LU-2	Tri-State will notify private landowners that will be affected during project construction and provide compensation if new easement agreements are required prior to construction.	C

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LU-3	<p>Tri-State will coordinate throughout the planning and construction phases of the project with other ROW grant/Special use permit holders/other lessees within the project area to ensure there are no conflicts or effects to existing land uses. It is Tri-State's and industry standard practice to design and build infrastructure to avoid possible safety and operational concerns from existing land uses (oil and gas, water and gas pipelines, grazing, etc.).</p> <p>Tri-State will work with affected oil and gas and other operators in the project area during project design, construction, and operations on a case-by-case basis. In general Tri-State will:</p> <ul style="list-style-type: none"> • Contact all affected operators in the study area to explain the project and • Work with operators to identify areas that may require special design considerations on a case-by-case basis. This could include conducting field visits with operators, identifying pipelines that may require cathodic protection (due to proximity to the transmission line), or specific design considerations if they are located under or near access roads; or identifying areas where subsidence may be a concern. As part of these discussions, best management practices and standard operating procedures will be identified on a case-by-case basis, as well as measures that will be implemented to minimize effects to operators during construction. Tri-State will continue to work with operators throughout construction and operation of the project. 	C
LU-4	The contractor will maintain all fences, brace panels, gates, and cattle guards during the construction period. Any fence, brace panel, or gate damaged during construction will be repaired immediately by the contractor to appropriate landowner or agency standards as determined by the authorized officer. Tri-State would maintain gates on Tri-State's administrative routes only.	C and O&M
LU-5	The contractor will eliminate, at the earliest opportunity, all construction ruts that are detrimental to agricultural operations and/or hazardous to movement of vehicles and equipment. Such ruts will be leveled, filled and graded, or otherwise eliminated in an approved manner. Damage to ditches, tile drains, culverts, terraces, local roads, and other similar land use features will be corrected as necessary by the contractor. The land and facilities will be restored as nearly as practicable to their original condition.	C
LU-6	Structure foundation holes will not be left open overnight and will be covered. Covers will be secured in place and will be strong enough to prevent livestock, wildlife, or the public from falling through and into a hole.	C
LU-7	Tri-State will provide as-built drawings to federal agencies when construction is completed.	C and O&M
<i>Noise</i>		
N-1	Construction vehicles and equipment will be maintained in proper operating condition and will be equipped with manufacturers' standard noise control devices or better (e.g. mufflers, engine enclosures). Improperly functioning equipment will be removed from the construction site until the issue is corrected.	C and O&M
N-2	Noise associated with project construction activities shall comply with C.R.S 25-12-103(5). Maximum permissible noise levels. Post construction noise levels for project operation shall comply with C.R.S. 25-12-103(12)	C and O&M

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<i>Noxious Weeds</i>		
NW-1	<p>Noxious weed management is required throughout the life of the transmission line easements, special use permits, and ROW Grant. Tri-State shall be responsible for weed control within the limits of the right-of-way. Tri-State is responsible for consultation with the authorized officer and/or local authorities for acceptable weed control methods (within limits imposed in the grant stipulations) including pesticides/herbicides approved for use on BLM land.</p> <p>A noxious weed MOU is already in place with the USFS for the transmission line. If noxious weed agreements are not in place by the initiation of ROW clearing in spring of 2017. Tri-State will supplement USFS weed treatment efforts as needed prior to construction. Tri-State will pre-treat noxious weeds on BLM and private lands (where permitted) in the spring of 2017. Noxious weed management will continue throughout the life of the transmission line via agreements with the USFS and BLM.</p>	C and O&M
NW-2	<p>Tri-State will continue to participate and voluntarily fund noxious weed management activities on Tri-State ROWs under the existing Collection Agreement between Tri-State and the USFS for the Grand Mesa Uncompahgre Gunnison (GMUG) NF and San Juan National Forest (SJNF) (this agreement covers 18 miles of the existing transmission ROW). Additional detail will be provided in the Final POD (Appendix S, Noxious Weed Management Plan). The existing agreement with between Tri-State and the USFS is also in accordance with USFS direction for invasive species management (including Forest Service Manual 2900 invasive species management; Forest and/or regional invasive species strategy).</p> <p>The same approach to noxious weed management is proposed on BLM administered lands and a draft agreement is currently being drafted. The POD will be updated with this finalized BLM Uncompahgre Field Office and Tres Rios agreement. Tri-State will participate and fund noxious weed management activities on Tri-State ROWs under a Collection Agreement between Tri-State and the BLM GMUG and Tres Rios. Additional detail will be provided in the Final POD (Appendix S, Noxious Weed Management Plan). An approved weed treatment plan shall be reviewed and approved by the BLM prior to the issuance of the Notice to Proceed.</p>	C and O&M
NW-3	<p>The reclamation and noxious weed management plan will be approved by the appropriate agency prior to the issuance of a ROW grant. The noxious weed management plan for areas not covered under pending agreements with the BLM and existing agreements with the USFS will be developed in accordance with appropriate land management agencies' standards, consistent with applicable regulations and agency permitting stipulations for the control of noxious weeds and invasive species (Executive Order 3112).</p>	C and O&M
NW-4	<p>On-site weed control for pre-construction activities that may occur prior to implementation of a noxious weed agreement with the BLM and on private lands will be conducted through herbicide use and a weed control plan and/or agreement approved by the BLM, CPW, and affected landowner (on private lands). The BLM requires a Pesticide Use Proposal package, and will approve proposed herbicides, treatments and time of treatment. Applicators are also legally required to supply the BLM with a written herbicide application record within 24 hours of applying herbicides on BLM-managed lands. The pesticide use proposal should be submitted to the agencies by March 1, annually. Application records will be submitted weekly and will include both spatial and tabular element (using forms provided by the agencies).</p>	C

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NW-5	All heavy equipment, including all-terrain vehicles (ATV) and lowboys, utilized during construction will be washed prior to departure from the equipment storage facility. This method promotes containment of weed seeds on the work site; all seed mixes and mulch used for reclamation activities will be certified weed-free. Tri-State will consider providing a portable/mobile vehicle wash station on-site where appropriate. Tri-State will require that all vehicles be washed prior to entering the project area; when travelling from an area infested with invasives to an area that has no known invasives; and when travelling from an area infested with spotted knapweed to any other parts of the project area.	C and O&M
NW-6	Pre-construction treatment of weeds in staging or temporary use areas will be conducted.	C
NW-7	Noxious weed treatments conducted outside of agreements with BLM and USFS will require avoidance and/or minimization measure to protect documented populations of rare plant species that are included in the project's constraints atlas (POD Appendix G).	C and O&M
NW-8	Noxious weed treatment conducted outside of Federal lands shall comply with Land Use Code 5-1002-E.IX.	C and O&M
<i>Paleontological Resources</i>		
PA-1	In consultation with applicable agencies, a paleontological resource monitoring and mitigation plan will be prepared for locations (if any), where construction will disturb geologic units with high Potential Fossil Yield Classification (PFYC) of high (PFYC 4) or very high (PFYC 5) resource potential. The plan will include specific monitoring locations, monitoring and fossil salvage and data collection procedures, notification procedures in the event of a scientifically significant discovery, and notification procedures in the event of a fossil discovery by construction personnel in areas that are not monitored.	C
<i>Recreation</i>		
R-1	Tri-State and its contractor(s) will be responsible for avoiding effects to the Power Line Trail and its associated facilities (signs, off-highway vehicle gates, fencing, cattle guards, etc.). If this trail and/or any other trail facilities on BLM and USFS administered lands are impacted during project construction and/or maintenance activities, Tri-State will rehabilitate/re-construct the trail and its corridor to USFS specifications and replace damaged trail facilities. Tri-State will also provide signs and coordinate any necessary trail closures with the BLM and/or USFS. If guy wires are required for specific structures in proximity to trails, the wires will be marked with reflective tape to reduce risk of collision.	C and O&M
R-2	Tri-State has coordinated with CPW to obtain priorities for restrictions in specific areas to reduce impacts to hunters. CPW has indicated their priority is to restrict construction from Naturita Ridge to Disappointment Valley from: 11/2-11/13 in 2016, 11/1-11/12 in 2017, and 10/31-11/11 in 2018. Tri-State will work with CPW, BLM, USFS, and private landowners on reducing effects to hunters and providing information/maps to CPW to provide to hunters within the affected game management units about construction schedules and activities.	C

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<i>Soils and Geology</i>		
S-1	Tri-State and its contractor(s) will mitigate temporary effects to soils compacted by movement of construction vehicles and equipment, by: <ul style="list-style-type: none"> • Loosened and leveled harrowing or disking to approximate pre-construction contours and • Reseeding with certified weed-free grasses and mulched (except in cultivated fields). The specific agency approved seed mix(s) and rate(s) of application will be determined by the affected land management agencies or private landowners. 	C
S-2	Movement of construction and maintenance vehicles and equipment will be limited to the ROW and approved access routes.	C and O&M
S-3	Excavated material not used in the backfilling of structures will be spread around each pole, evenly spread on the access routes in the immediate vicinity of the pole structure or transported off-site to a Tri-State approved disposal location. Disturbed areas will then be regraded to approximate pre-construction contours and reseeded as specified in S-1 (above).	C
S-4	Wherever salvage is feasible, particularly in sensitive areas (wetlands), topsoil will be removed, stockpiled, and re-spread at temporarily disturbed areas not needed for maintenance access.	C
S-5	As part of pre-construction activities, Tri-State and/or Tri-State contractors will perform detailed geologic evaluation and investigations in certain locations to evaluate potential geological and geotechnical hazards, and design the project to avoid and minimize potential geotechnical risks such as slope failure, unstable soils, and landslide risks. In addition, soil will be sampled if potentially contaminated soils were observed during the pre-construction geotechnical investigation.	C
<i>Traffic</i>		
T-1	Tri-State and its contractor(s) will make all necessary provisions for conformance with federal, state, and local traffic safety standards and will conduct construction and maintenance operations so as to offer the least possible obstruction and inconvenience to public traffic.	C and O&M
T-2	Prior to construction, Tri-State or its contractors will develop a construction traffic management plan in consultation with affected landowners. This includes working with San Miguel and Montrose counties as well as Colorado Department of Transportation (CDOT) to incorporate appropriate measures and obtain approval for construction of the transmission line across county roads and state highways as applicable. It also will include obtaining crossing permits as required by state, county, or local requirements and developing a plan for installation of warning signs where construction activities may cross a recreational trail.	C
<i>Vegetation</i>		
VG-1	In designated areas, structures and new access roads (if required) will be placed to avoid and/or minimize sensitive features, such as, but not limited to, threatened or sensitive plants, riparian areas, water courses, and cultural sites.	C

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VG-2	<p>Vegetation will be preserved and protected from damage during transmission line construction and operation to the maximum extent practicable and within areas approved in the Final POD, with the exception of trees and other woody vegetation that poses a threat to the safe and reliable operation of the transmission line. Wherever possible, on access roads, vegetation will be trampled rather than cleared where vehicles can move safely across the vegetation.</p> <p>By federal mandate, Tri-State is required to manage vegetation that creates a threat to the electrical reliability of the transmission line or substations, or will impede access for safe operations. Danger tree/vegetation is defined as that vegetation that could grow, fall, or blow into the power line. Tri-State will also work with the authorizing agency to address any fuel loading concerns in the ROW that may pose a threat to the safe and reliable operation of the transmission line. Tri-State will manage ROWs to maintain compatible “low growing” vegetation only.</p>	C and O&M
VG-3	<p>Disturbed areas where vegetation has been temporarily removed by construction activities to the extent that the potential for soil erosion is increased to a detrimental level will be subject to seedbed preparation techniques, reseeded to an approved seed mixture, and mulched if necessary during a recognized planting season. Mulching will be applied only to those areas where potential erosion will prohibit vegetation establishment and growth. BLM and USFS will provide information on the recognized planting season.</p>	C
VG-4	<p><i>Vegetation Management on USFS Administered Lands:</i> On lands administered by the USFS timber removal and slash management will be coordinated and approved by the USFS and outlined in the Plan of Development prior to construction and future maintenance activities. The Forest Service will conduct a timber cruise of the 150 foot ROW. Tri-State will mark danger trees adjacent to the ROW and incompatible vegetation within the ROW required for removal. These off ROW trees will be counted, measured at diameter breast height, recorded by species, and marked using a paint color and type approved by the Forest Service. A timber appraisal will be conducted for merchantable timber on and off ROW and this timber will be sold to Tri-State at the appraised rate. Tri-State will be responsible for removal/transfer/disposal of material on the ROW.</p> <p><i>Vegetation Management on BLM Administered Lands:</i> Tree removal on BLM administered lands will be conducted in compliance with the TRFO and UFO Resource Management Plans. Tri-State will reduce visual impacts from vegetation management activities by minimizing the appearance of straight edges/visual uniformity whenever practicable while also meeting other federal reliability requirements. The BLM TRFO specifications that will be incorporated into the timber removal for project construction can be found in the Resource Management Plan on Page II-96, Sections 2.16.19, and 2.16.21 (a-f).</p> <p>Trees and vegetation removed during clearing activities will be hauled offsite to an approved disposal facility or masticated on site to a depth approved by the BLM. Where appropriate, cleared trees and/or vegetation may be spread onsite to promote wildlife habitat or chipped/masticated in place and used as mulch for erosion control with approval from the landowner or land management agencies authorized representative. BLM requirements and stipulations for vegetation removal will be incorporated into the Final POD.</p> <p><i>Vegetation Management on Private and State Lands”</i> Vegetation on State, Local, and Private lands will be in compliance with NERC standards and the individual easement agreements.</p>	C

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VG-5	Tri-State and its contractor(s) will not cross any wetland, riparian area (of/ or relating to, or located on, the banks of a river or stream), or ponds unless at designated locations authorized under the 404 permit. Any variance from the 404 permit will be reviewed and approved by the U.S. Army Corps of Engineers (USACE).	C and O&M
VG-6	On completion of the work, all temporary use areas will be regraded, as required, so that all surfaces drain naturally, blend with the natural terrain, and are left in a condition that will facilitate natural revegetation, and provide for proper drainage and prevent erosion.	C
VG-7	All temporary surface disturbances on State, BLM and USFS administered lands will be seeded with native seed mixtures that have been approved by the authorizing agency. Seed mixes on private land will be at the discretion of the landowner. Reclamation will be deemed complete once vegetation has been reclaimed to 70 percent of pre-construction conditions, or at the discretion of the agency authorized agent.	C
VG-8	All construction materials and debris will be removed from the project area.	C
VG-9	The Final POD includes a reclamation and noxious weed management plan.	C
<i>Water Quality and Erosion</i>		
WQ-1	A Storm Water Management Plan (SWMP) will be developed and implemented to address all construction/ reconstruction activities. The plan will conform to Colorado Department of Public Health and Environment (CDPHE) requirements including regular inspections to ensure proper and effective functioning of Best Management Practices (BMPs). The Final POD will also be updated with specific water quality design measures once final engineering is complete.	C
WQ-2	All Tri-State construction personnel, including contractors will be trained on stormwater management requirements for the project. The environmental monitor will be responsible for compliance with the stormwater management plan from construction and through post-construction/reclamation.	C
WQ-3	BMPs will be installed for project construction and future access road maintenance to protect water quality and surface waters. BMPs implemented will encompass a wide range of practices, both structural and non-structural in nature, such as road design requirements and construction techniques (installing cross drains, dips, and/or water bars) to minimize sediment discharge to surface water, as well as standards for maintaining road stability to control erosion. Site assessments will be conducted bi-weekly (as outlined in the SWMP) to assess the adequacy of BMPs at the site, and the necessity of changes to those BMPs to ensure continued effective performance. Where site assessment results in the determination that new or replacement BMPs are necessary, BMPs will be installed to ensure effective erosion control. Where BMPs have failed, resulting in noncompliance, they will be addressed as soon as possible, immediately in most cases, to minimize the discharge of pollutants. In addition, there will be areas that will no longer require BMPs. These BMPs will be identified and removed when appropriate.	C

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WQ-4	<p>Construction activities will be performed using methods that prevent entrance or accidental spillage of solid matter, contaminants, debris, and other objectionable pollutants and wastes into flowing streams or dry water courses, lakes, and underground water sources. Such pollutants and wastes include, but are not restricted to, refuse, garbage, cement, concrete, sanitary waste, industrial waste, radioactive substances, oil and other petroleum products, aggregate processing tailings, mineral salts, and thermal pollution.</p> <p>Excavated material or other construction materials will not be stockpiled or deposited near or within 100 feet of any surface water, wetlands, stream banks, lake shorelines, or other water course perimeters where they can be washed away by high water or storm runoff or can in any way encroach upon the actual water source itself. BMPs will be installed if it is likely materials could leave the site (silt fence, waddles, or other methods could be implemented).</p>	C
WQ-5	<p>With the exception of areas where access roads cross surface waters, buffers will be used when constructing new access roads and structure locations occur in proximity to water resources including wetlands. Tri-State will buffer surface waters, wetlands, riparian areas, and ditches 100 feet regardless of slope class whenever feasible. When 100 feet is not feasible, the following standard will be used: 30 feet for gentle slopes, 60 feet for moderate slopes, and 100 feet or more for severe slopes. If these buffers are not feasible in a particular area because of another resource, land use, or engineering constraint, BMPs will be utilized to ensure that sediment from construction does not enter surface waters and drainages.</p>	C
WQ-6	<p>Tri-State does not expect dewatering to be required for the project. However, if future geological testing indicates dewatering at structure locations is required, dewatering work for structure foundations or earthwork operations adjacent to, or encroaching on, streams or water courses will not be performed without prior approval by CDPHE and affected land management agency. Water and eroded materials will be prevented from entering the streams or watercourses by constructing intercepting ditches, bypass channels, barriers, settling ponds, or other approved methods. All fuel and fluid spills within this area will be handled in accordance with appropriate state and federal spill reporting and response requirements.</p>	C
WQ-7	<p>Wastewaters from concrete batching and other construction operations during project construction or future maintenance activity will not enter streams, watercourses, or other surface waters without the use of turbidity control methods such as settling ponds, gravel-filter entrapment dikes, and approved flocculating processes that are not harmful to fish, recirculating systems for washing of aggregates, or other approved methods. Any such wastewaters discharged into surface waters will be essentially free of settleable material. For the purpose of these specifications, settleable material is defined as that material which will settle from the water by gravity during a 1-hour quiescent detention period.</p>	C
WQ-8	<p>Access roads will be designed/improved to properly drain in order to prevent future erosion. Final access road design/improvement requiring substantial cut and fill (Level 3) will be reviewed and approved by the affected authorized agency road engineer prior to construction.</p>	C
WQ-9	<p>Erosion control measures including silt fences, straw bales, and other stormwater runoff and sediment controls will be implemented and regularly maintained on disturbed areas, including areas that must be used for maintenance operations (access ways and areas around structures).</p>	C and O&M

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WQ-10	Prior to construction, a wetland and surface waters wetland delineations will be completed within the area of proposed disturbance and fill within or proximity to potential waters of the U.S., and appropriate permits will be obtained from the USACE if the project exceeds Nationwide Permitting (NWP) thresholds. Construction activities will be limited to that approved in the NWP obtained from the USACE for the project. Tri-State will strictly adhere to all applicable conditions of the 404 permit (s). Tri-State will comply with San Miguel County regulations for wetland protection.	C
WQ-11	Delineated wetland boundaries within the project area will be identified clearly with wetland pin flags, fluorescent wetland tape, and/or orange plastic construction fencing. The markers will be installed prior to the initiation of construction and will be maintained throughout the construction process. Wetland boundaries not authorized for disturbance under a Corps of Engineers permit will be buffered (from construction activities) by 100 horizontal feet.	C
WQ-12	Disposal of excess water from dust control will be done on flat upland locations away from surface drainages to prevent runoff and to encourage infiltration into the soil.	C
WQ-13	Vegetation removal will be limited to the area necessary for construction activities, and disturbed areas will be scarified and revegetated after construction, using native vegetation (see Appendix P). Noxious weed management will occur, per EPMs NW-1 to NW-8 (see Appendix S).	C
WQ-14	Tri-State will hire an agency- approved environmental monitor to ensure the project complies with all conditions of Nationwide Permit 12 (Utility Line Activities) to prevent unplanned impacts to wetlands and other waters of the U.S. Prior to construction, all supervisory construction personnel will be trained in avoidance and minimization techniques to lessen impacts to wetlands and other waters of the U.S.	C
WQ-15	In areas where construction may occur near surface waters and wetlands but no permanent or temporary impacts are planned and permitted under a USACE permit, 100 horizontal foot buffers will be created to protect these resources from sedimentation and erosion impacts. Fueling will occur only at staging areas and commercial stations to avoid potential contamination of surface waters, wetlands, and riparian communities. All reportable fuel and chemical spills will be reported to the State of Colorado, per applicable statutes and regulations, contained and cleaned up promptly.	C
WQ-16	Culverts or armored low water crossings will be located as approved by the appropriate agencies and any changes to stream banks at crossings will be designed to sustain bank full dimensions of width, depth, and slope and keep streambeds and banks resilient to prevent effects to natural streamflow at stream crossings. New and existing culverts will be maintained in such a manner so as to allow continual flow of irrigation water, return water, waste water and on-and-off site run-off, and allow fish passage if fish were historically present.	C
WQ-17	Low water crossings will be used instead of culverts to the extent possible, particularly in drainages with floodplains. Armored low water crossings will be designed to prevent scouring along the downstream edge, and maintain the channel pattern, profile and dimension. These will be designed and constructed per United States Department of Agriculture (USDA) USFS Tech Reference – Low-Water Crossings: geomorphic, biological, and engineering design considerations. See reference (http://www.USFS.fed.us/eng/pubs/pdf/LowWaterCrossings/LoWholeDoc.pdf).	C
WQ-18	Intermittent or ephemeral streams will be crossed at right angles to the main channel.	C and O&M

Topic - No.	Applicant Committed EPMs And Design Features For Construction (C), Operation, And Maintenance (O&M)	Applicable to C and/or O&M*
WQ-19	No construction equipment will be operated within the stream channel, unless for the purpose of installing armored crossing and culverts or moving construction equipment across the channel for use on either bank.	C
WQ-20	Implementation of EPMs outlined above under Vegetation and Soils will also minimize impacts to water quality and surface waters. Reclamation will occur as soon as the season permits, including implementation of post-construction measures to stabilize areas of permanent and temporary disturbance.	C
WQ-21	Excavated topsoil and/or hydric soils from temporarily or permanently impacted wetlands will be selectively stockpiled for appropriate use in the project area following disturbance. Stockpiled soil will be stabilized using mulch or covering the material, to minimize erosion and sediment delivery to streams and wetlands. Further information can be found in Appendix P.	C