

Appendix D. SPreAD Analysis

D.1. Traffic Sound Level Propagation Maps D	2

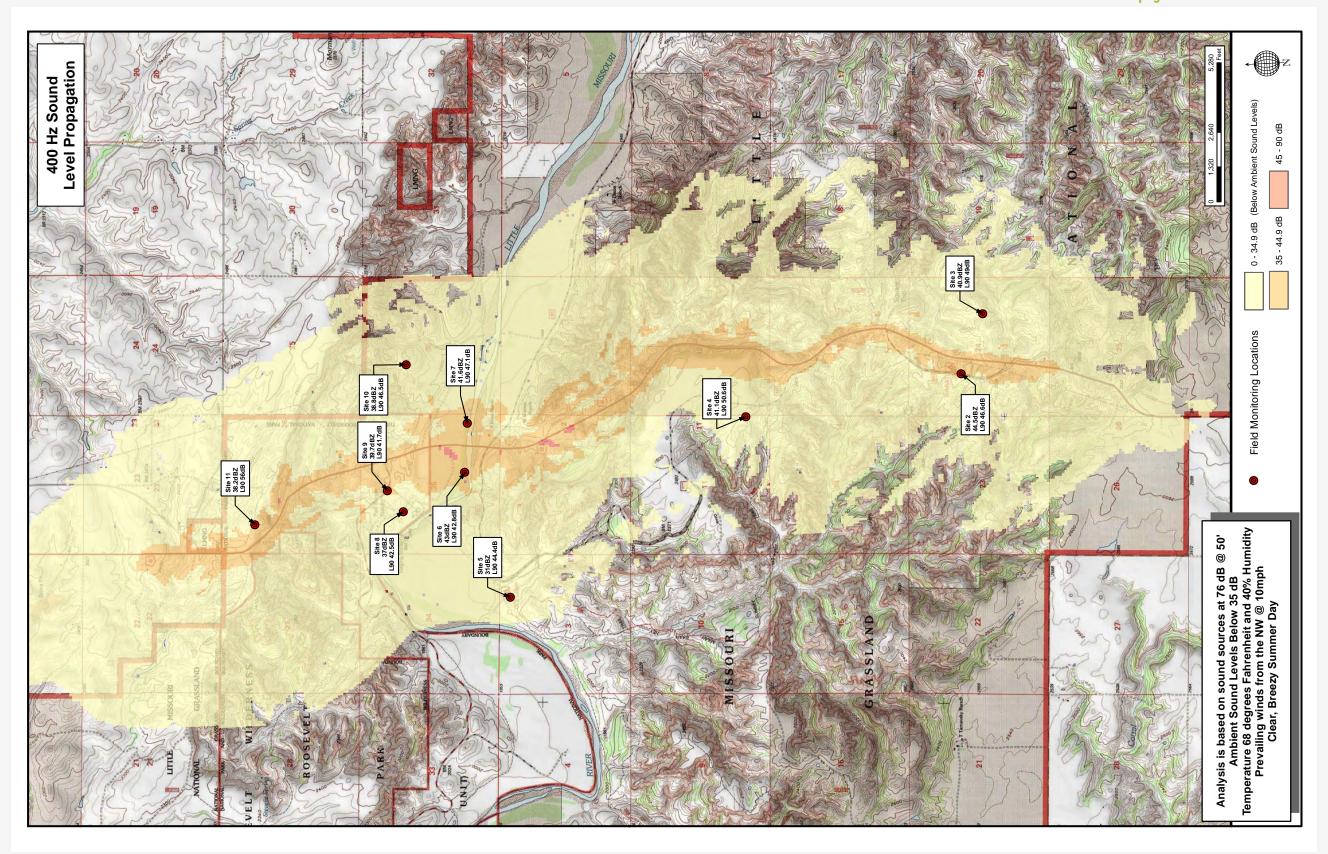


D.2. Long X Bridge Sound Level
Propagation MapsD-13

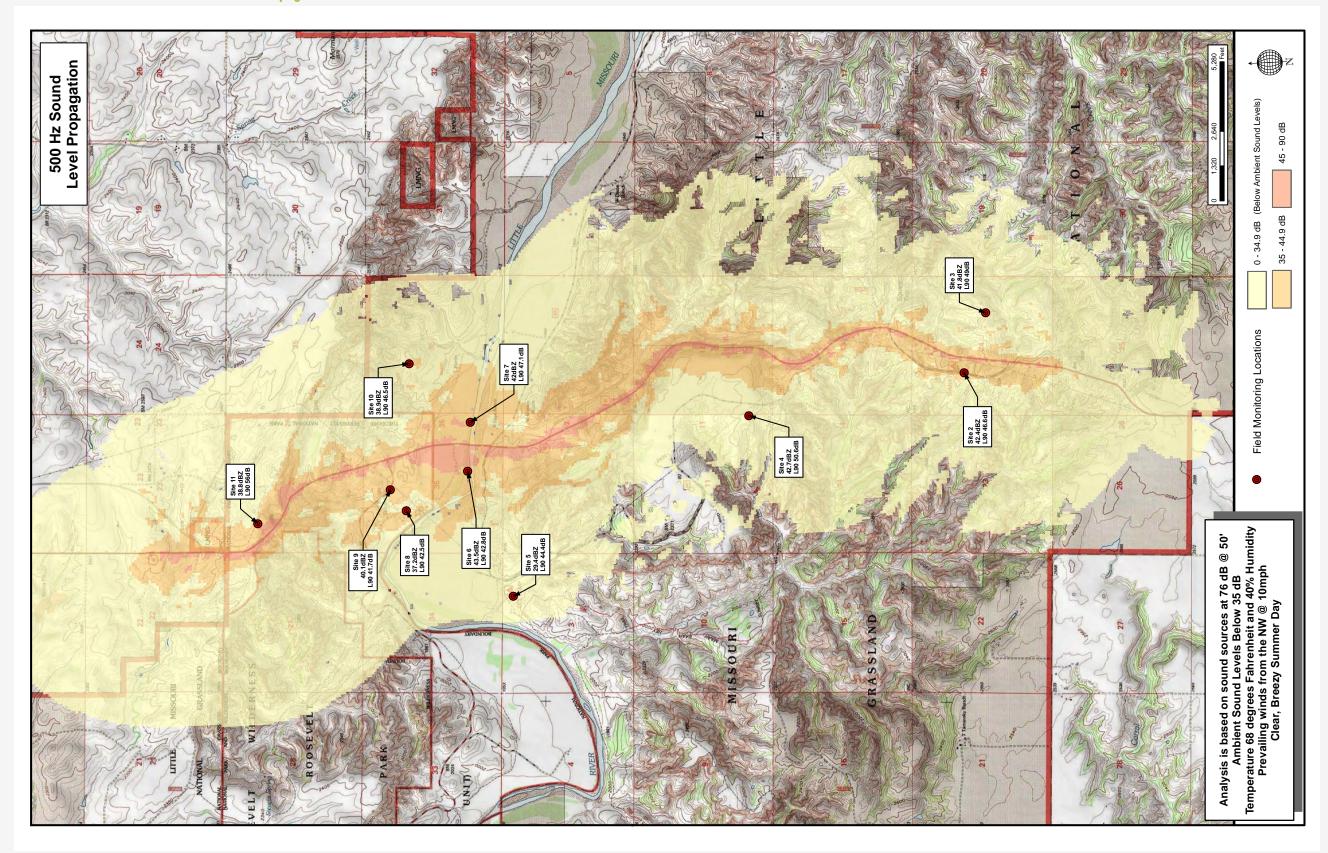
D.1. Traffic Sound Level Propagation Maps



D.1.1. Traffic 400 Hz Sound Level Propagation

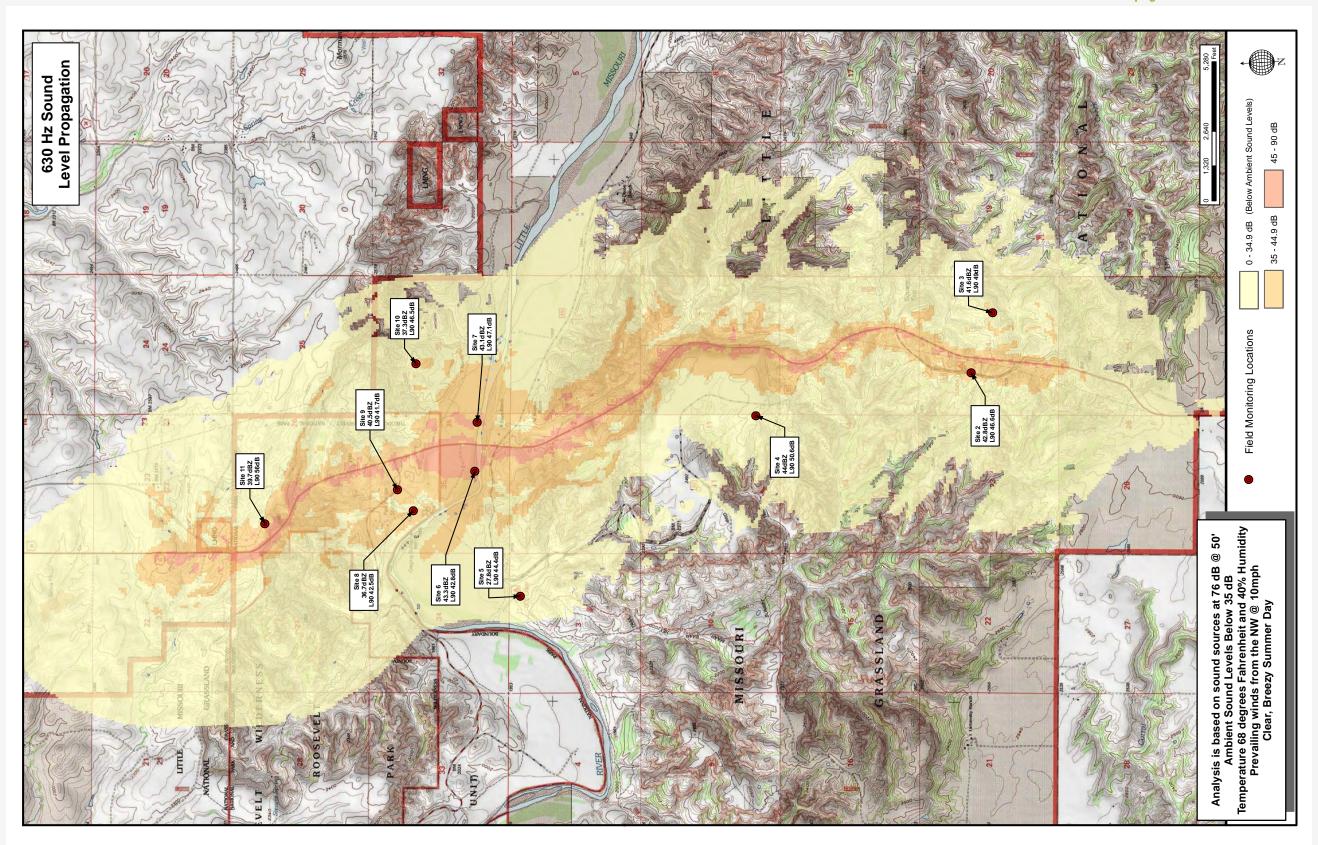


D.1.2. Traffic 500 Hz Sound Level Propagation

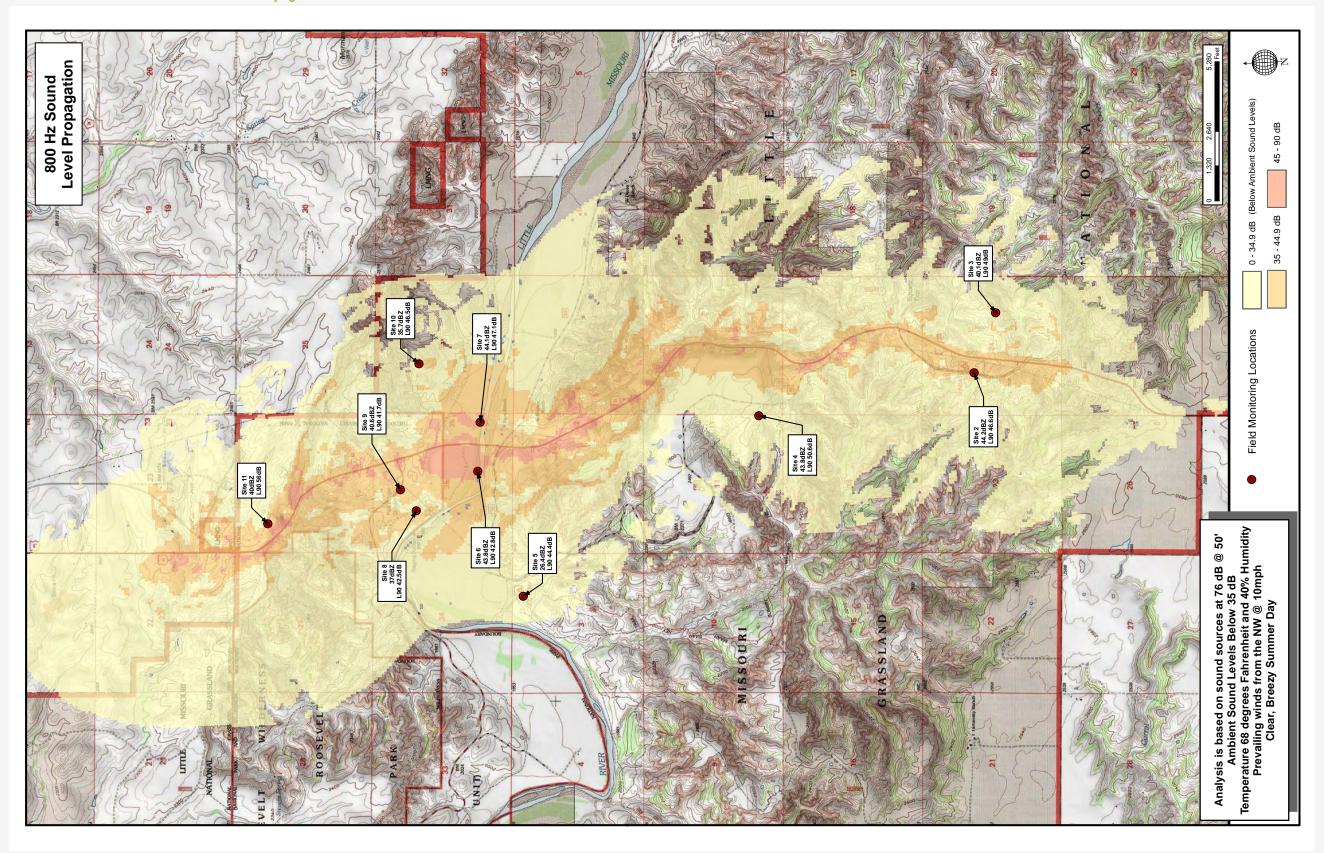




D.1.3. Traffic 630 Hz Sound Level Propagation

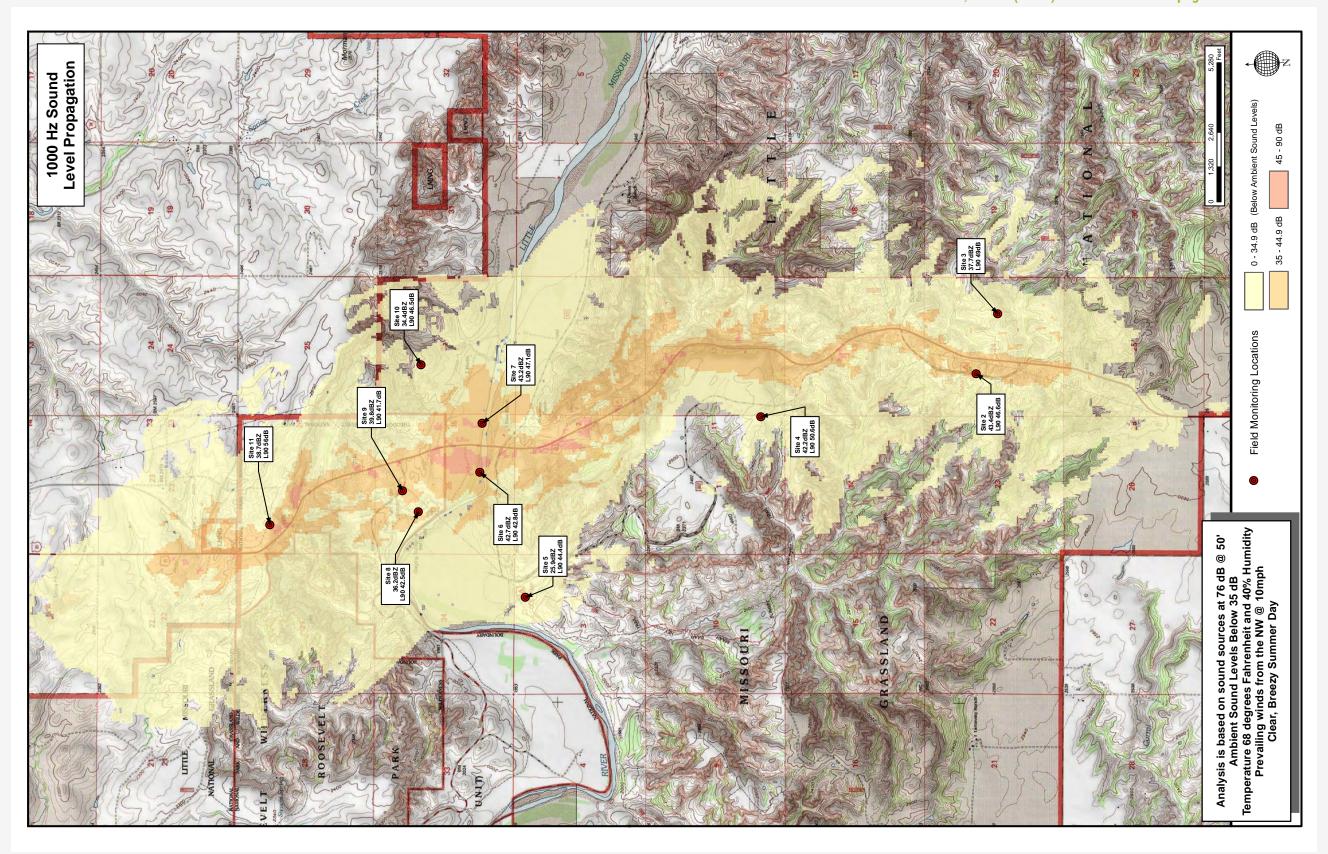


D.1.4. Traffic 800 Hz Sound Level Propagation

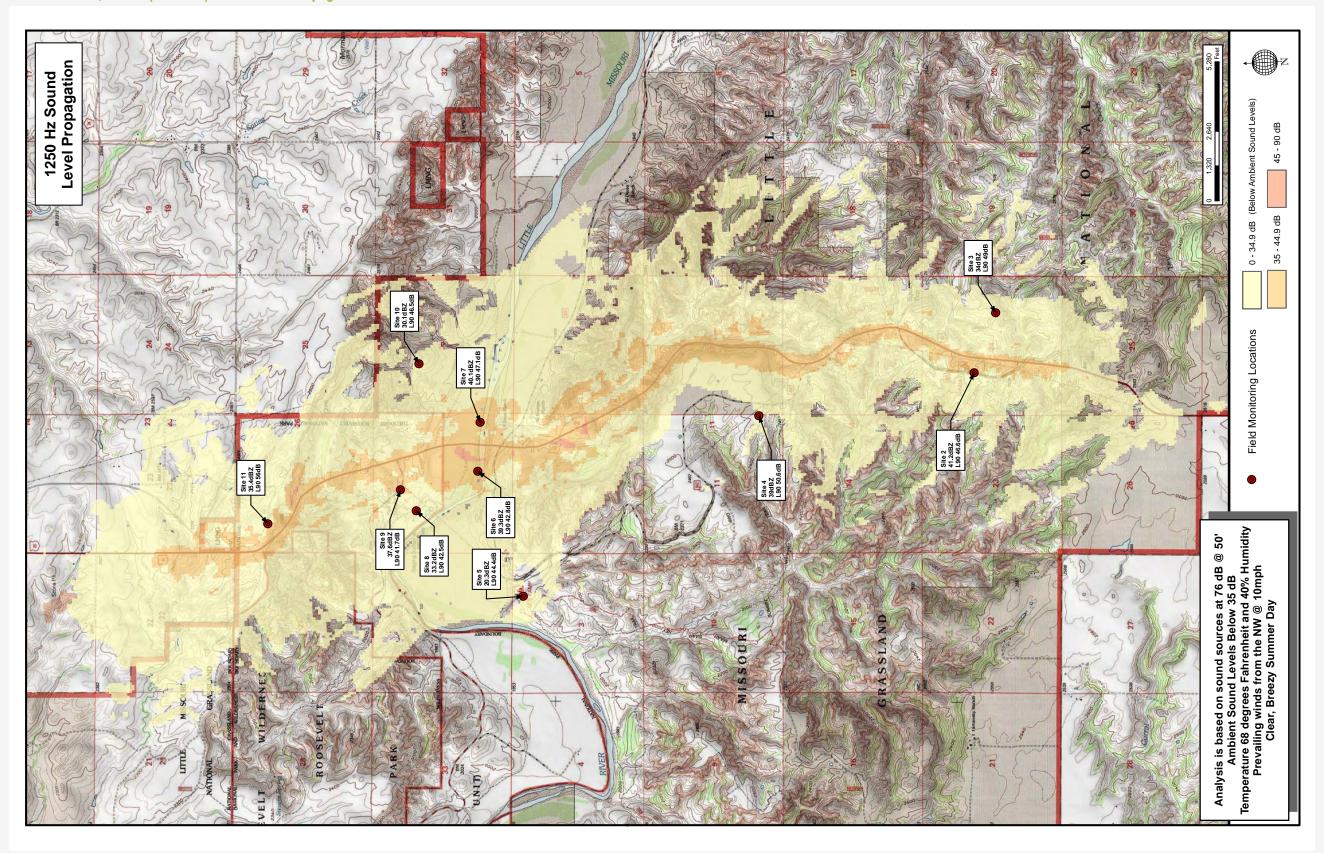




D.1.5. Traffic 1,000 Hz (1 kHz) Hz Sound Level Propagation

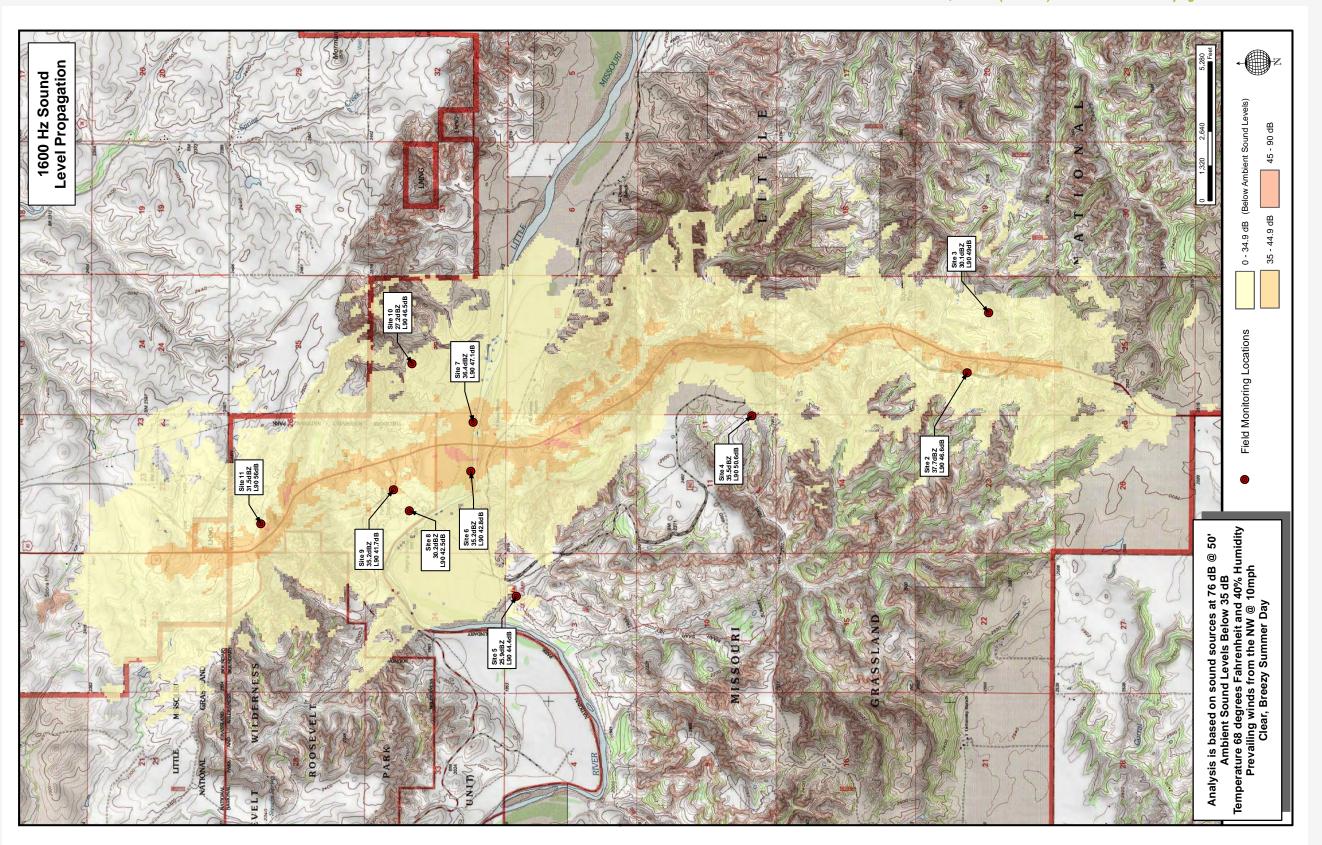


D.1.6. Traffic 1,250 Hz (1.25 kHz) Sound Level Propagation

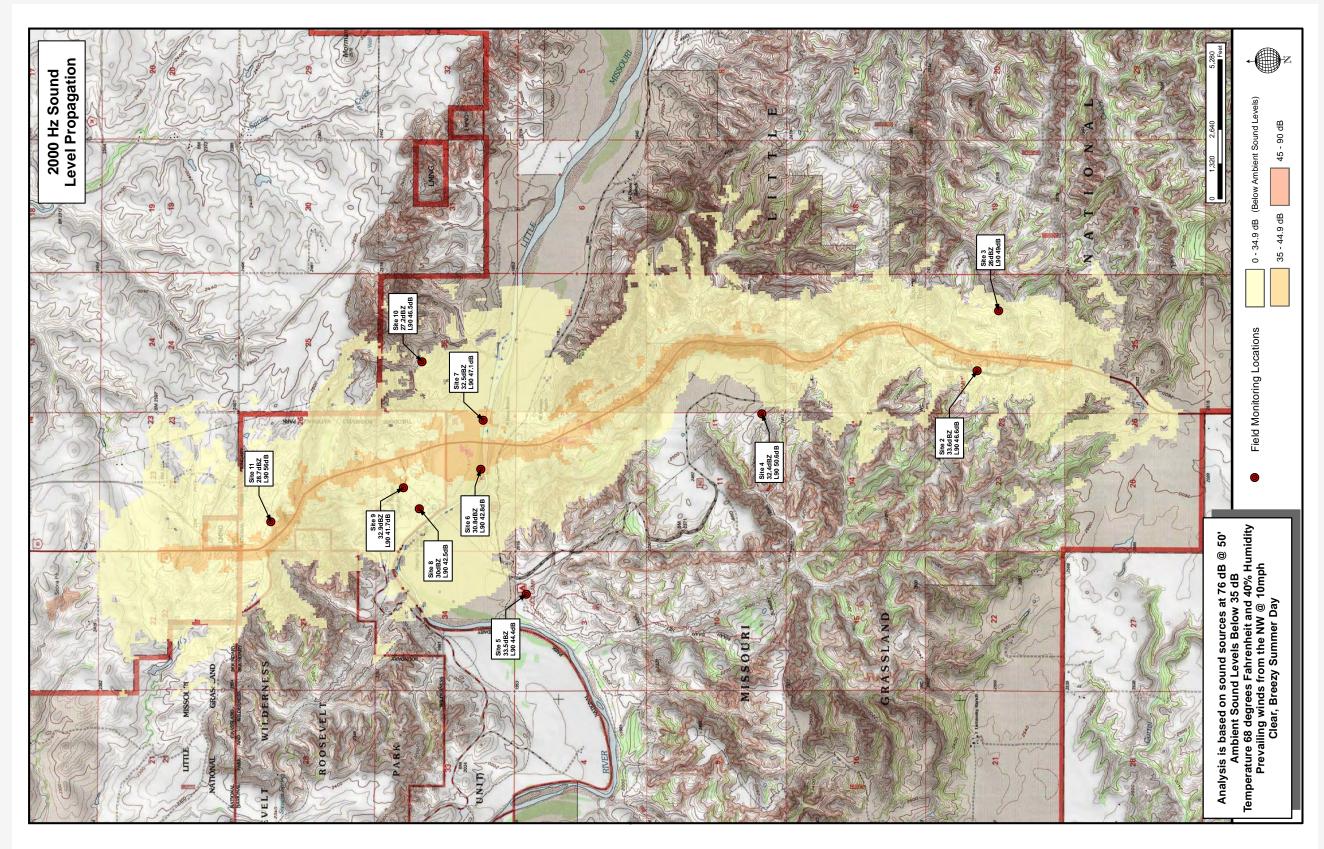




D.1.7. Traffic 1,600 Hz (1.6 kHz) Hz Sound Level Propagation



D.1.8. Traffic 2,000 Hz (2 kHz) Sound Level Propagation

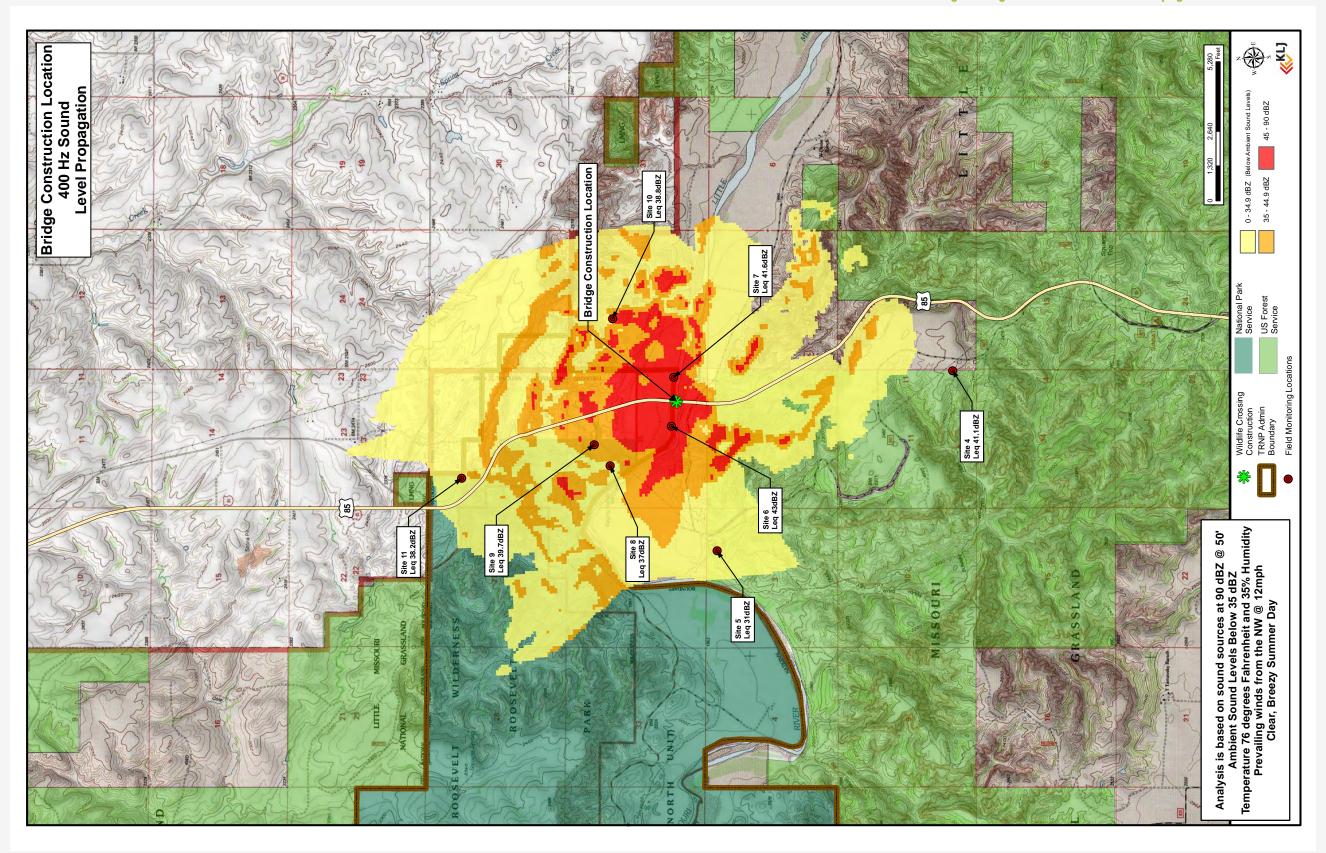




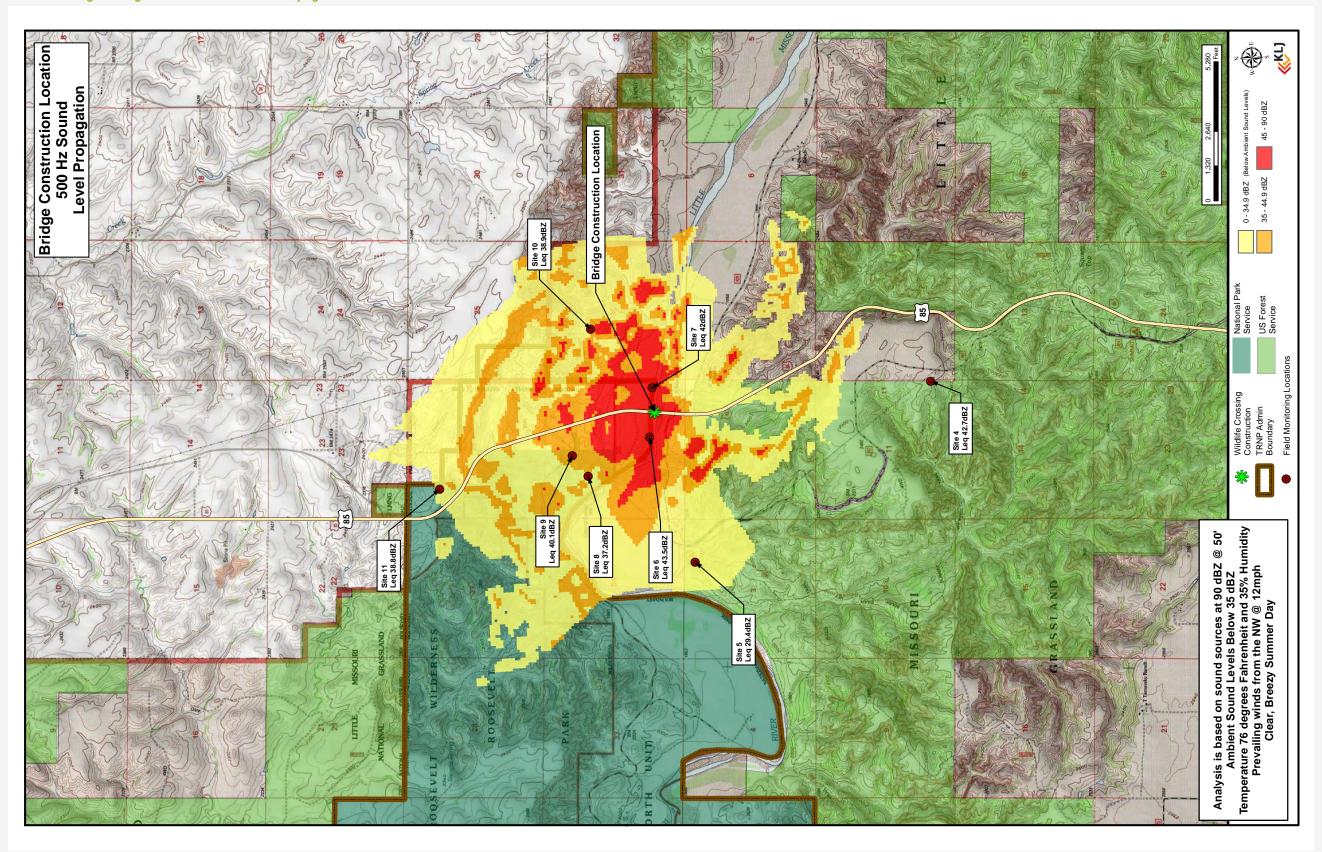
D.2. Long X Bridge Sound Level Propagation Maps



D.2.1. Long X Bridge 400 Hz Sound Level Propagation

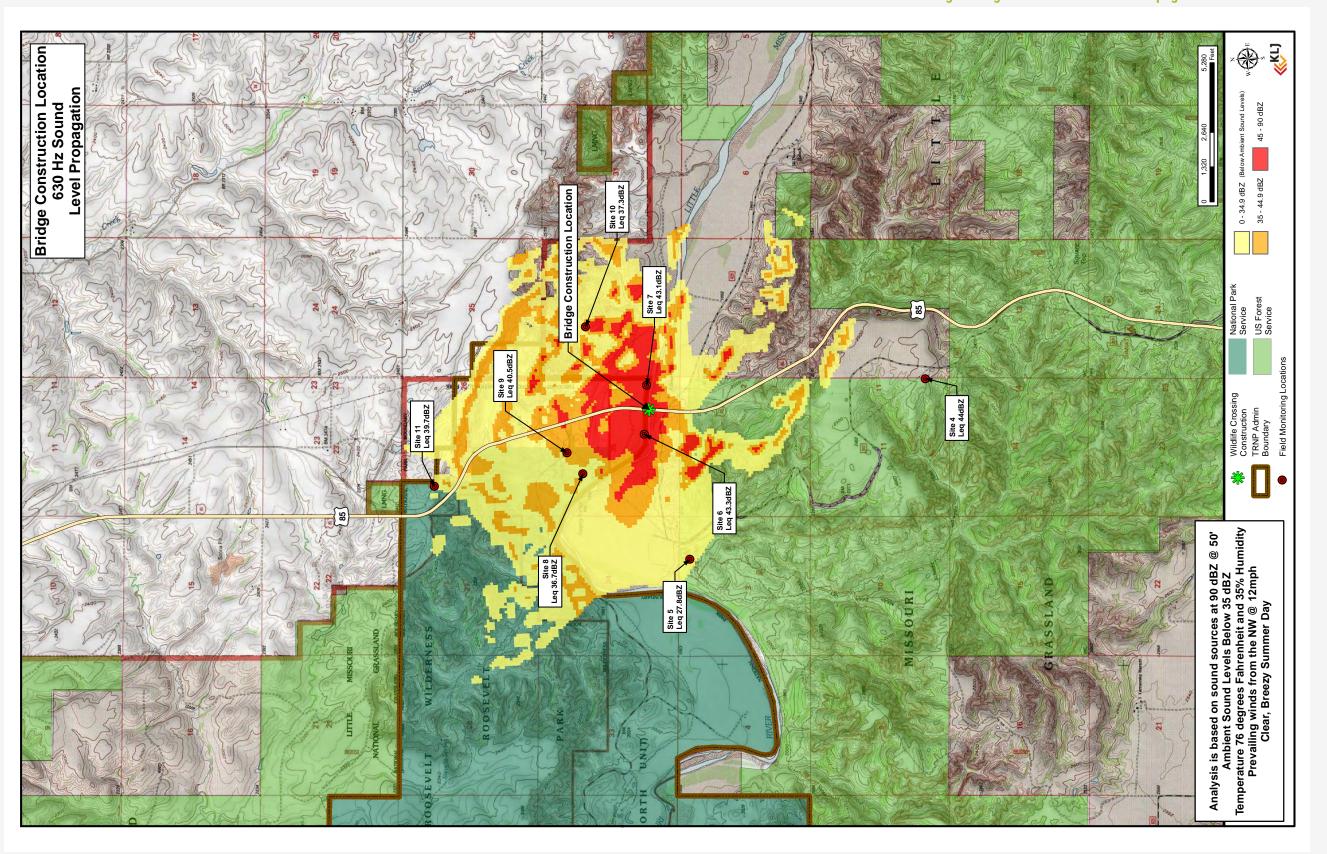


D.2.2. Long X Bridge 500 Hz Sound Level Propagation

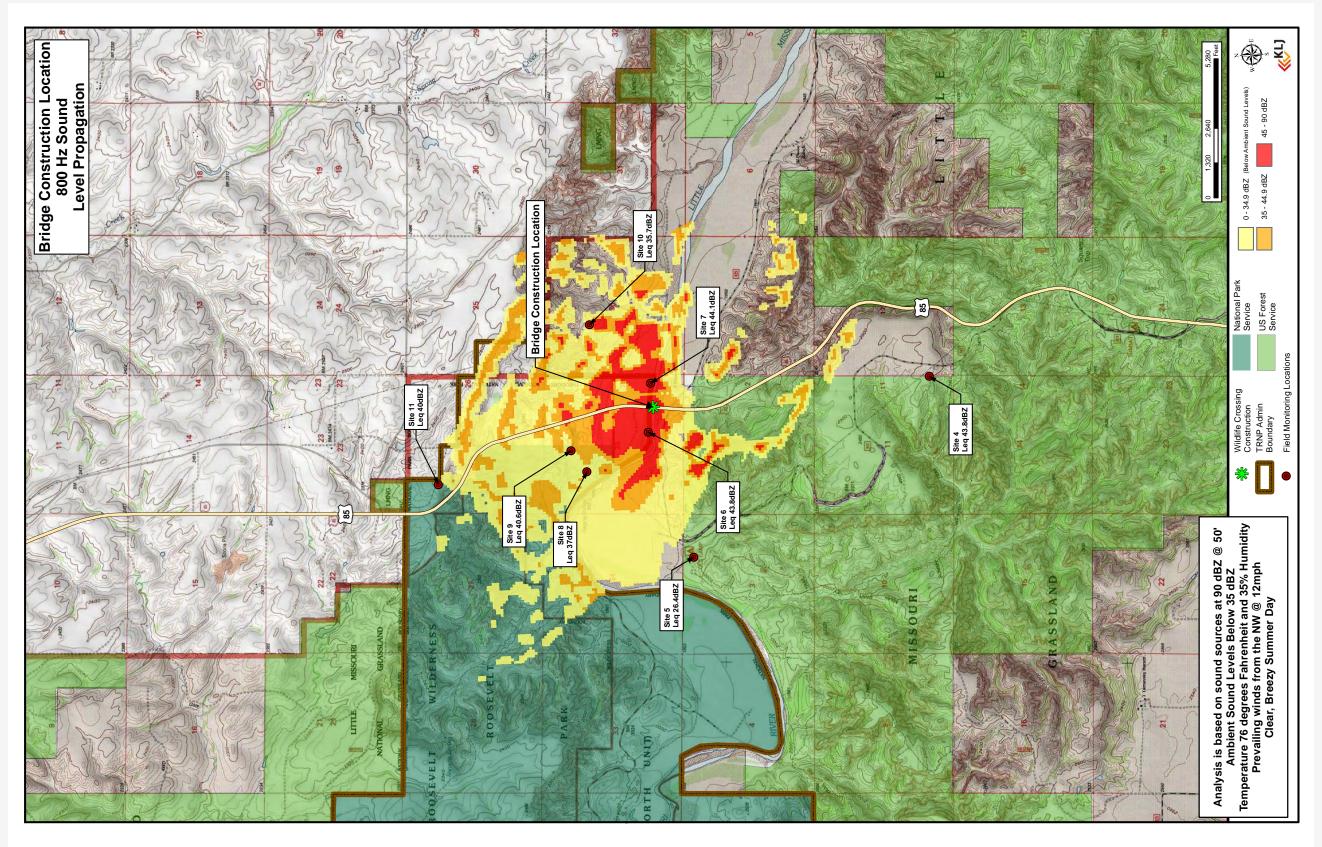




D.2.3. Long X Bridge 630 Hz Sound Level Propagation

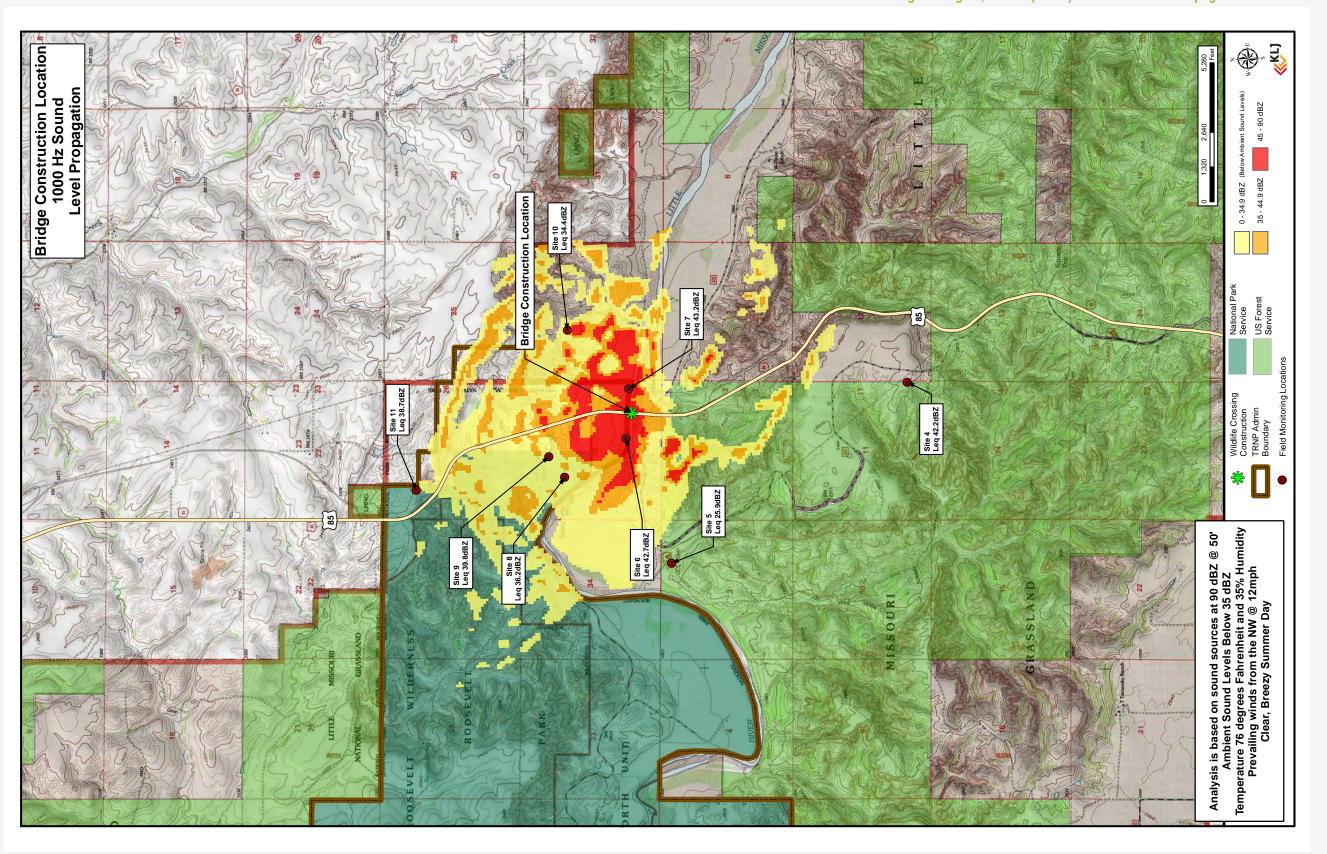


D.2.4. Long X Bridge 800 Hz Sound Level Propagation

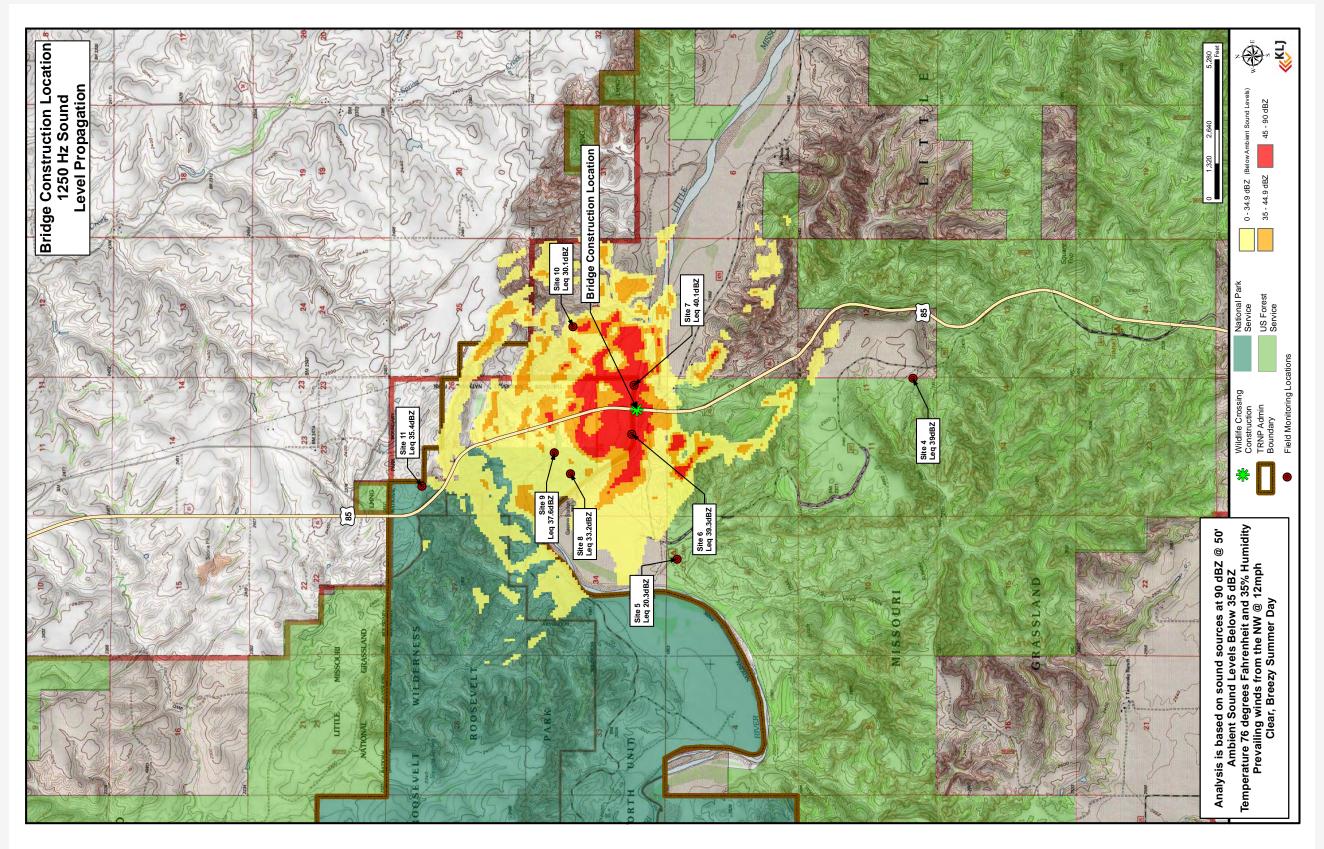




D.2.5. Long X Bridge 1,000 Hz (1 kHz) Hz Sound Level Propagation

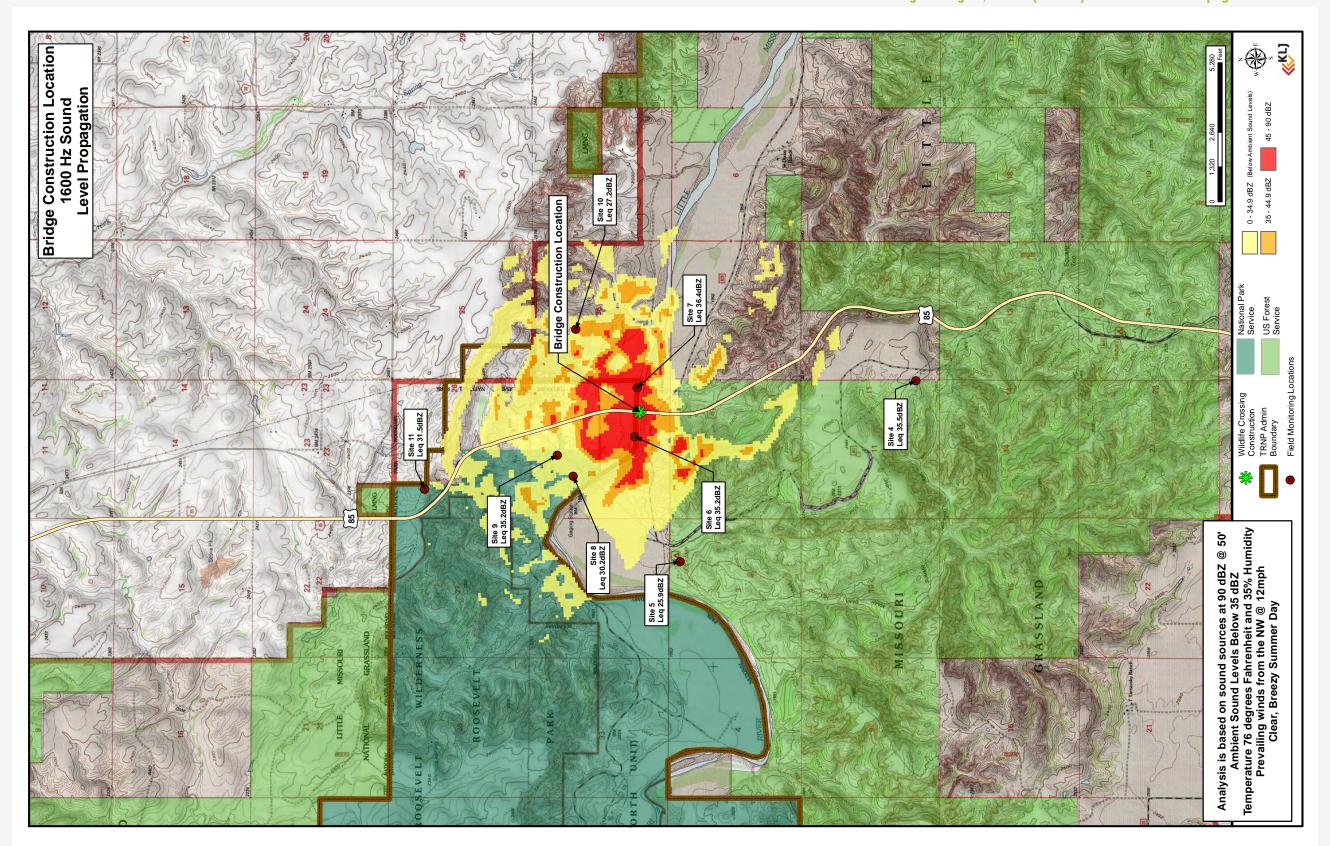


D.2.6. Long X Bridge 1,250 Hz (1.25 kHz) Sound Level Propagation

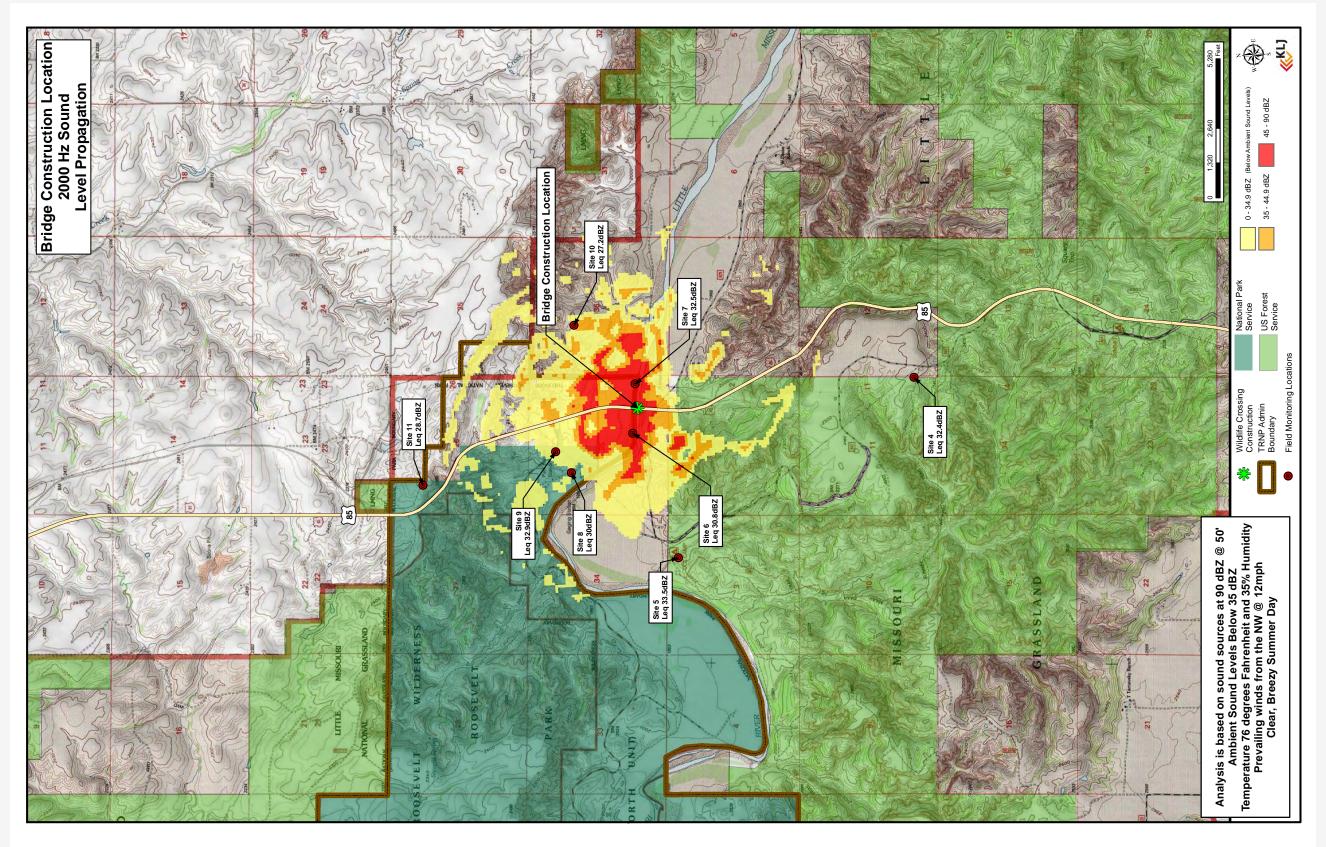




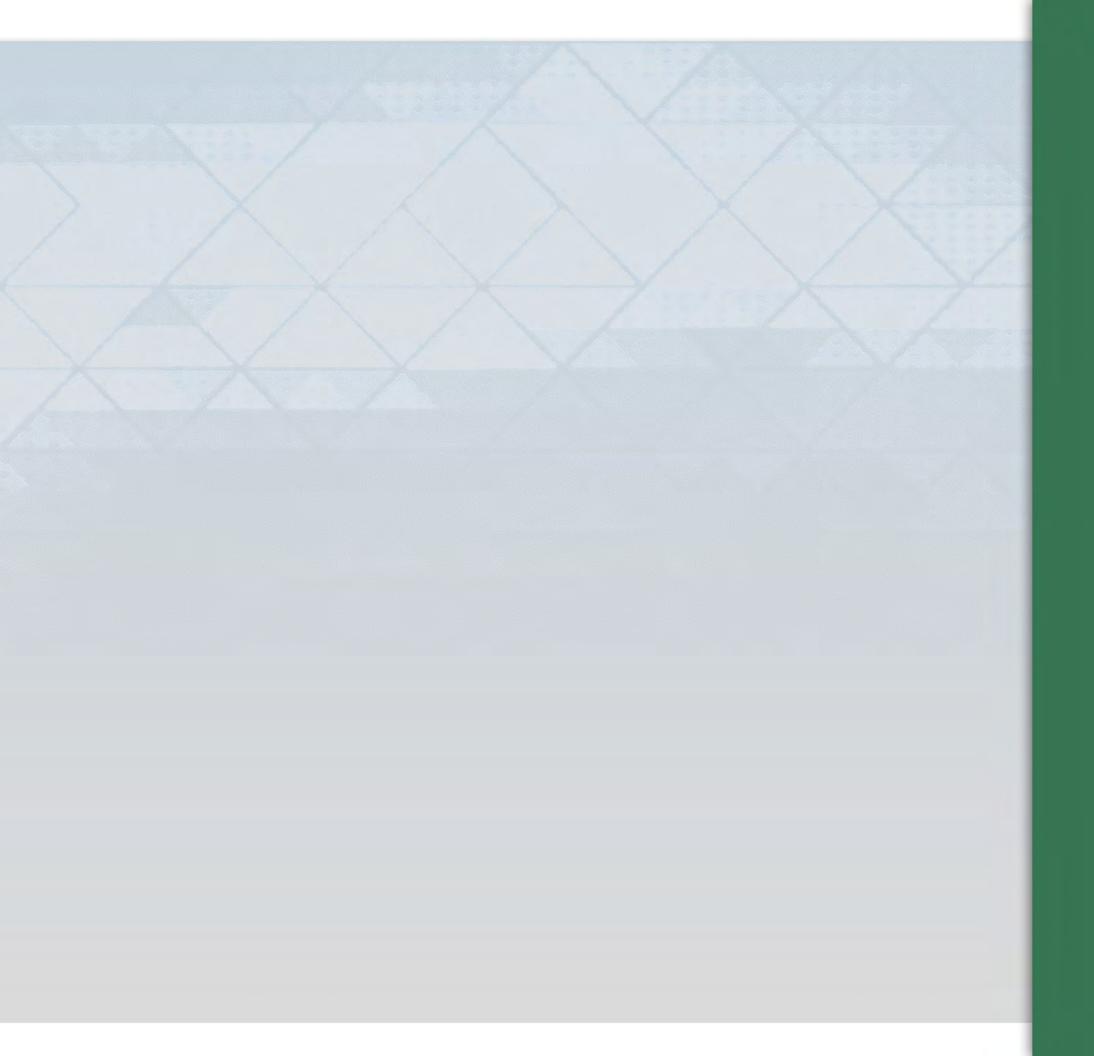
D.2.7. Long X Bridge 1,600 Hz (1.6 kHz) Hz Sound Level Propagation



D.2.8. Long X Bridge 2,000 Hz (2 kHz) Sound Level Propagation







Appendix E. Visual Assessment Results

E.1.	Existing Conditions and Simulated ChangesE-3
E o	
E.2.	Line-of-Sight ModelsE-29

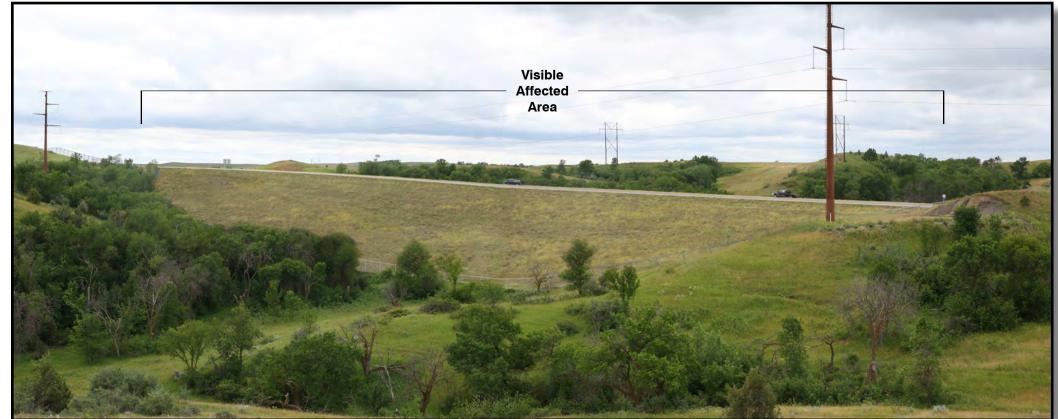


E.1. Existing Conditions and Simulated Changes

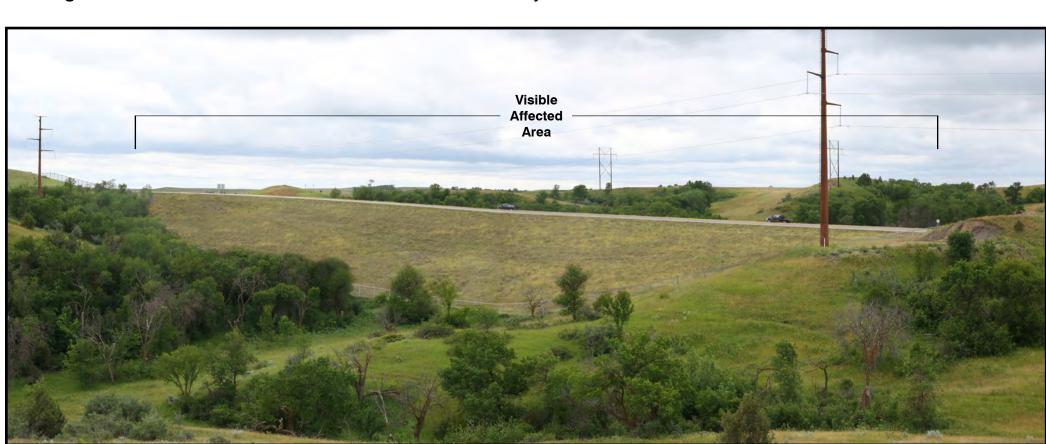




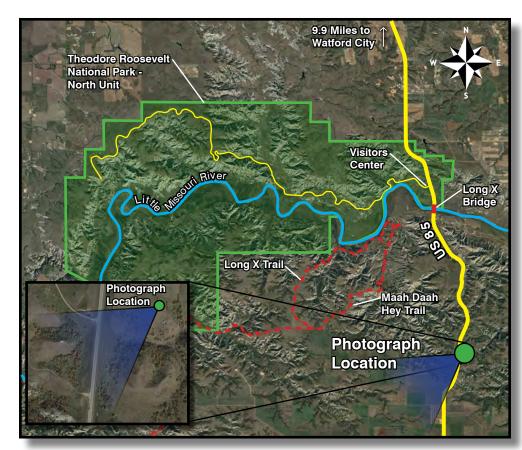
Existing Condition – View southwest from MA 1.31 Backcountry Recreation Non-motorized.



Simulation – Proposed is visible.



Site Conditions: Overcast Photo Date and Time: 6-14-17, 11:29 a.m. Focal Length: 50mm When printed on 11x17 inch paper, this simulation is meant to be viewed at a distance of 8.8 inches. 3D models in this simulation were prepared based on preliminary engineering and may change based on final engineering and design.



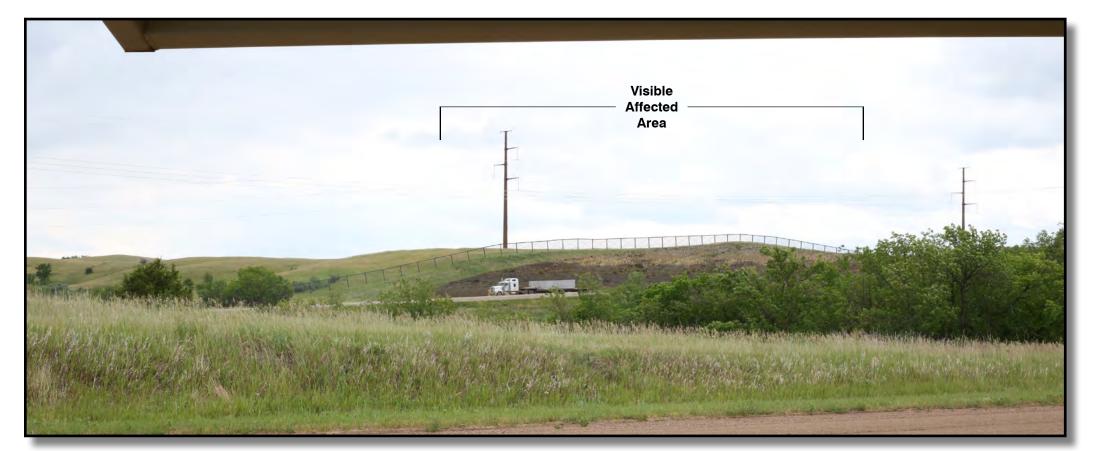
Photograph Location: Viewpoint is approximately 940 feet from US 85.



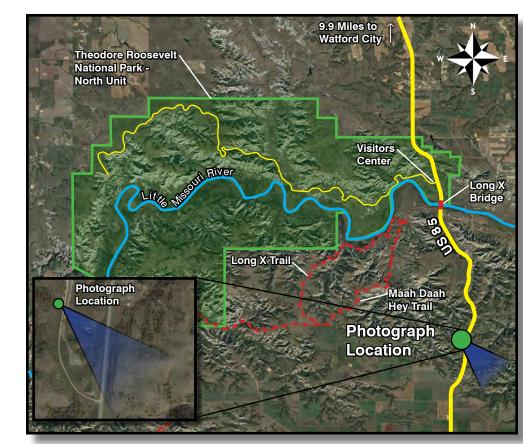
MA 1.31 Backcountry Recreation Non-motorized



Existing Condition – View southeast from Summit Campground.



Simulation – Proposed is visible.



Photograph Location: Viewpoint is approximately 900 feet from US 85.

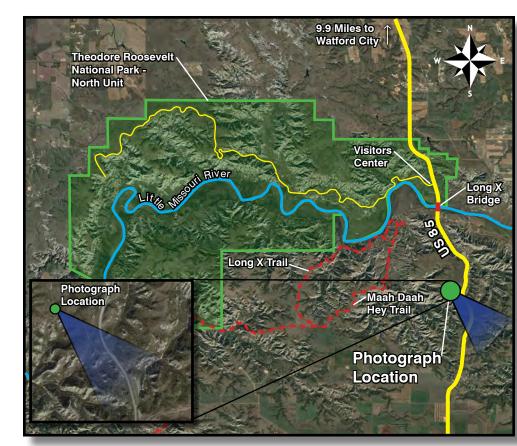




Existing Condition – View southeast from MA 1.2a Suitable for Wilderness.



Simulation – Proposed is visible.

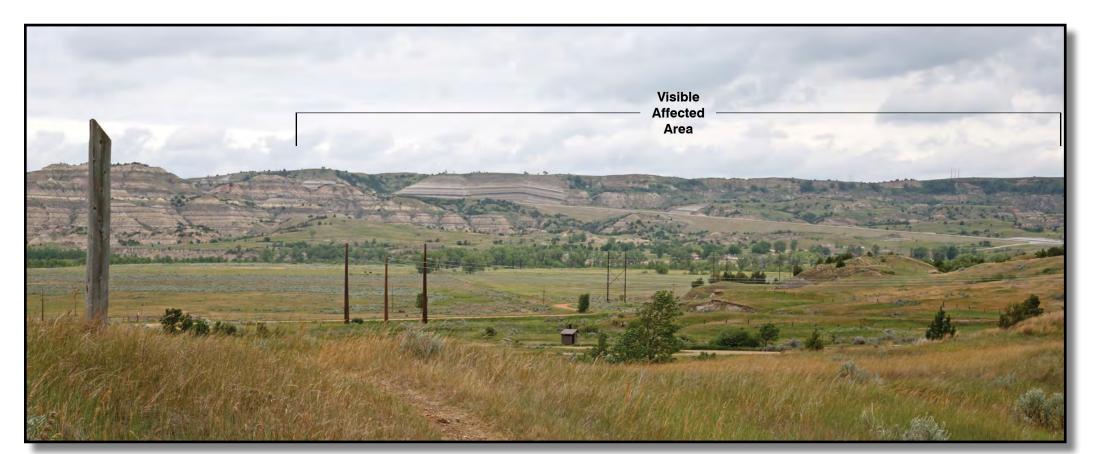


Photograph Location: Viewpoint is approximately 0.5 miles from US 85.

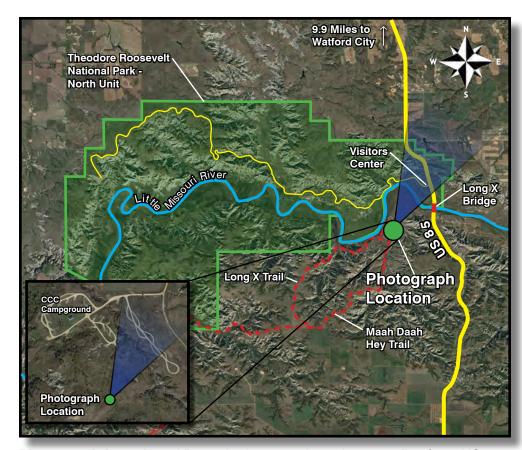




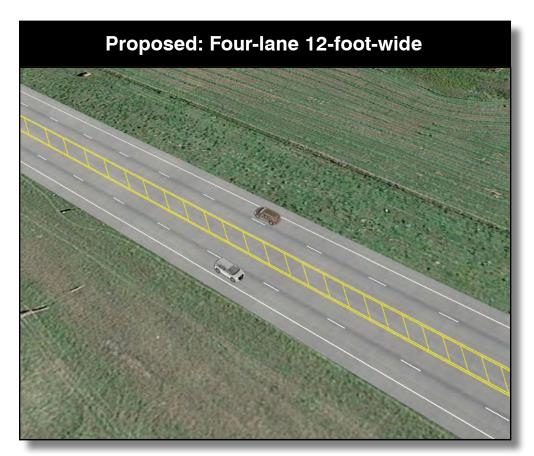
Existing Condition – View northeast from Maah Daah Hey Trail towards CCC Campground.



Simulation – Proposed is visible.



Photograph Location: Viewpoint is approximately 1.75 miles from US 85.

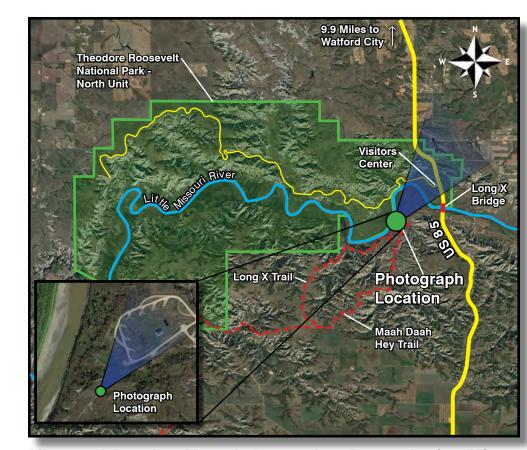




Existing Condition – View northeast from Long X Trail towards CCC Campground.



Simulation – Proposed is visible.

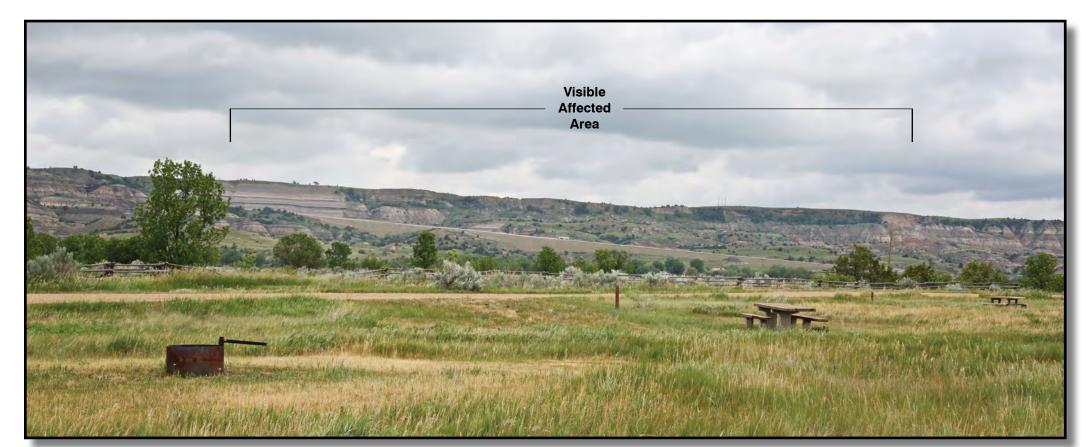


Photograph Location: Viewpoint is approximately 1.75 miles from US 85.

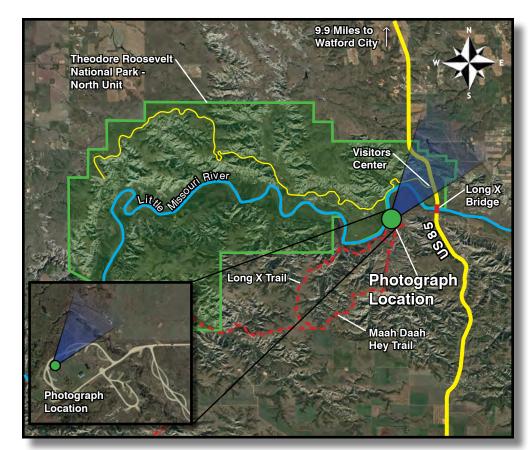




Existing Condition – View northeast from CCC Campground.

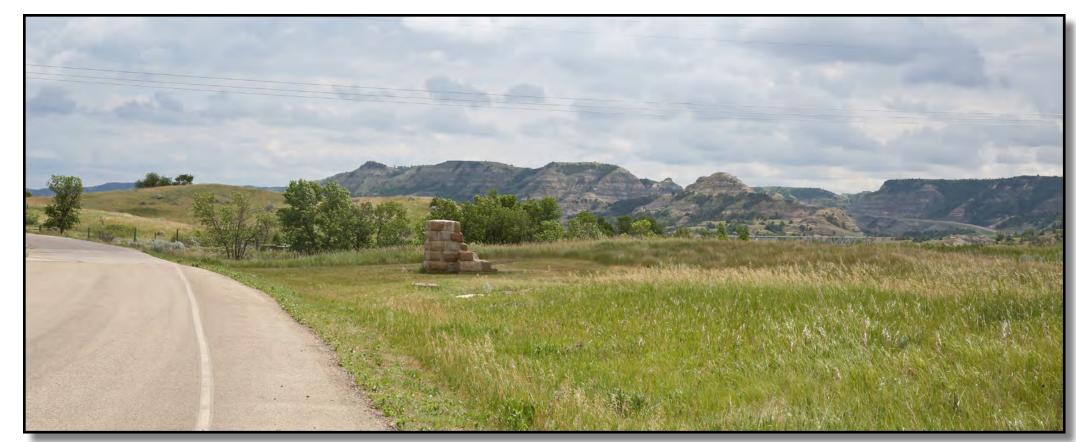


Simulation – Proposed is visible.

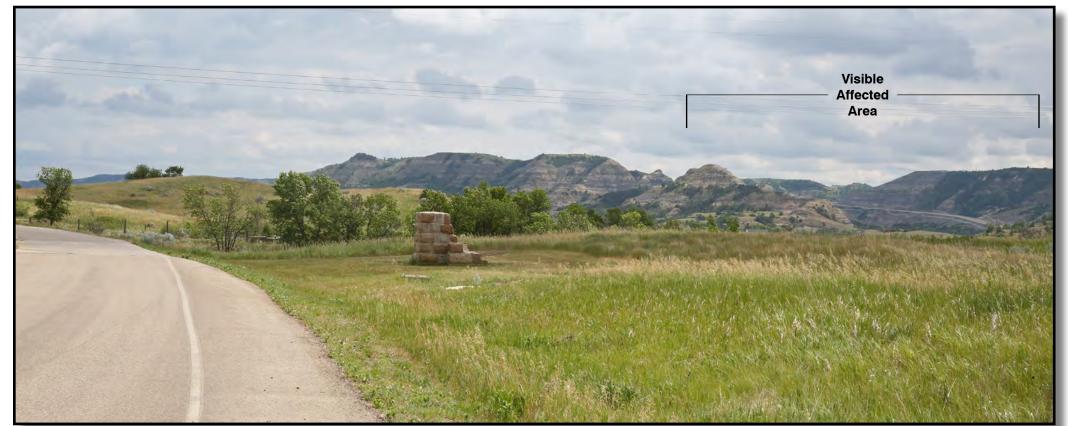


Photograph Location: Viewpoint is approximately 1.6 miles from US 85.





Existing Condition – View southeast from Temporary Administrative Center within Theodore Roosevelt National Park - North Unit.



Theodore Roosevelt
National Park North Unit

Location

Photograph
Location

Long X-Trail

Photograph
Location

River

Long X-Trail

Photograph
Location

Maah Daah
Hey Trail

99

Photograph Location: Viewpoint is approximately 0.7 miles from Long X Bridge.



Simulation – Proposed is visible.



Existing Condition – View northeast from Future Visitors Center within Theodore Roosevelt National Park - North Unit.



Theodore Roosevelt
National Park North Unit

Location

Visitors
Center

Long X Trail

Photograph
Location

Maah Daah
Hey Trail

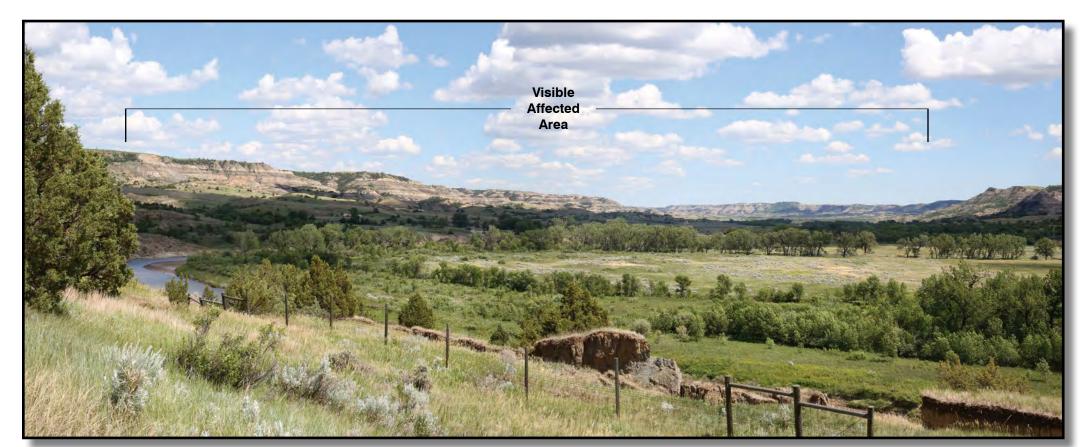
Photograph Location: Viewpoint is approximately 0.2 miles from US 85.



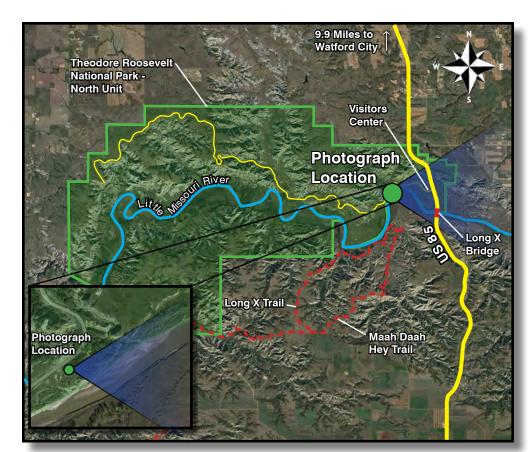
Simulation – Proposed is visible.



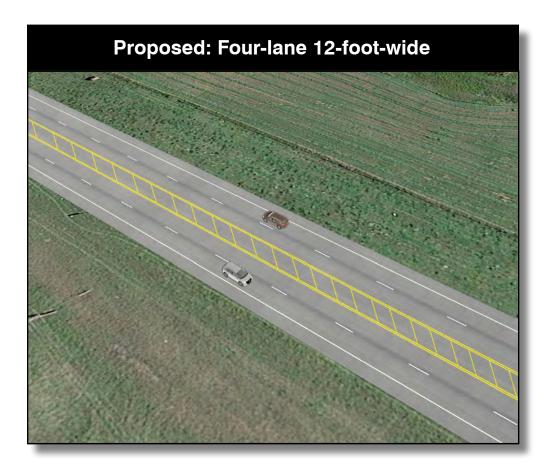
Existing Condition - View east from River Overlook within Theodore Roosevelt National Park - North Unit.



Simulation – Proposed is visible.



Photograph Location: Viewpoint is approximately 1.1 miles from US 85.





Existing Condition - View east from Buckhorn Trail within Theodore Roosevelt National Park - North Unit.



Theodore Roosevelt
National Park North Unit

Photograph
Location

Ling X Trail

Photograph
Location

Maah Daah
Hey Trail

Photograph Location: Viewpoint is approximately 1.25 miles from US 85.



Simulation – Proposed is visible.



Existing Condition – View northeast from Longhorn Pullout within Theodore Roosevelt National Park - North Unit.



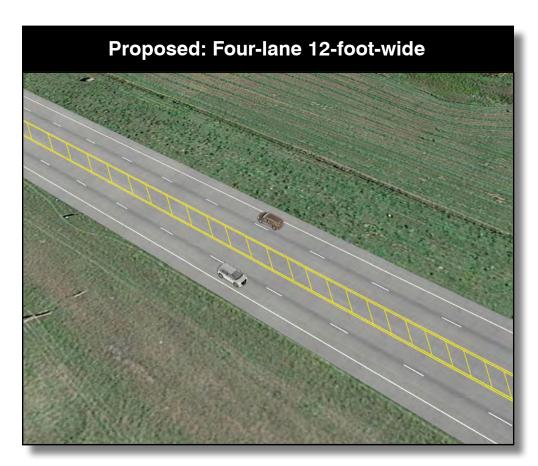
Theodore Roosevelt
National Park North Unit

Photograph
Location

Wash Daah
Hey Trail

Photograph
Location

Photograph Location: Viewpoint is approximately 1.8 miles from US 85.



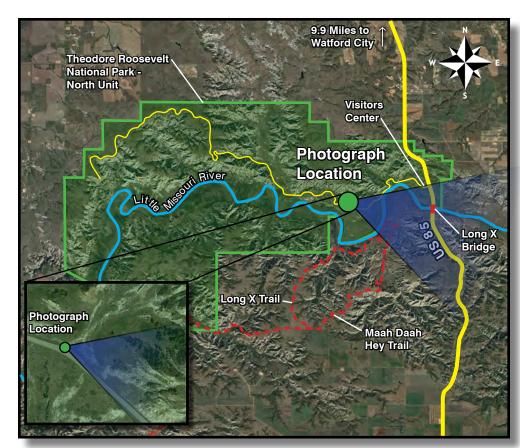
Simulation – Proposed is visible.



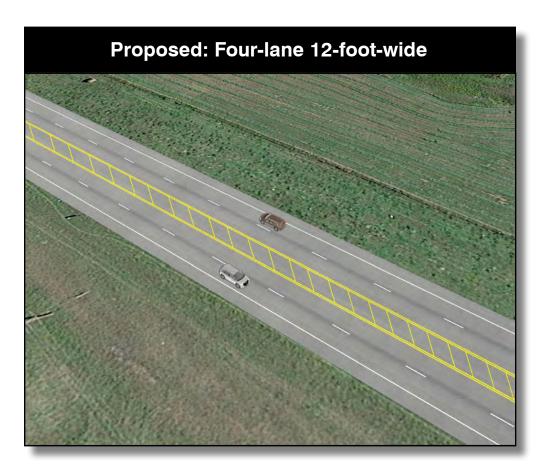
Existing Condition - View east from Slump Block Pullout within Theodore Roosevelt National Park - North Unit.



Simulation – Proposed is completely obstructed by terrain.



Photograph Location: Viewpoint is approximately 2.3 miles from US 85.





Existing Condition – View east from Cannonball Concretions Pullout within Theodore Roosevelt National Park - North Unit.



Photograph Location

Photograph Location

Photograph Location

Long X Trail

Photograph Location

Maan Daah Hey Trail

Photograph Location: Viewpoint is approximately 3.7 miles from US 85.



Simulation – Proposed is completely obstructed by terrain.



Existing Condition – View east from Juniper Campground entrance within Theodore Roosevelt National Park - North Unit.



Theodore Roosevelt
National Park North Unit

Photograph
Location

Maah Daah
Hey Trail

Photograph
Location

Photograph Location: Viewpoint is approximately 3.8 miles from US 85.



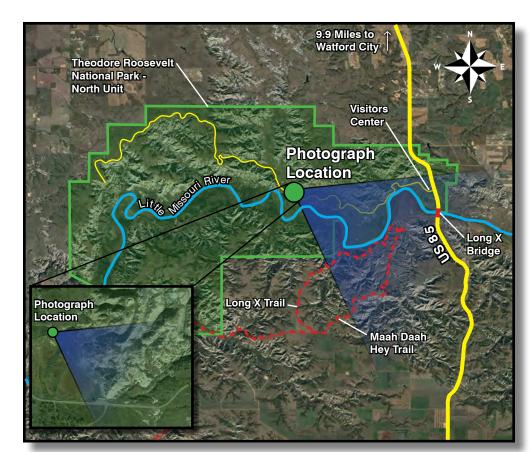
Simulation – Proposed is completely obstructed by vegetation and terrain.



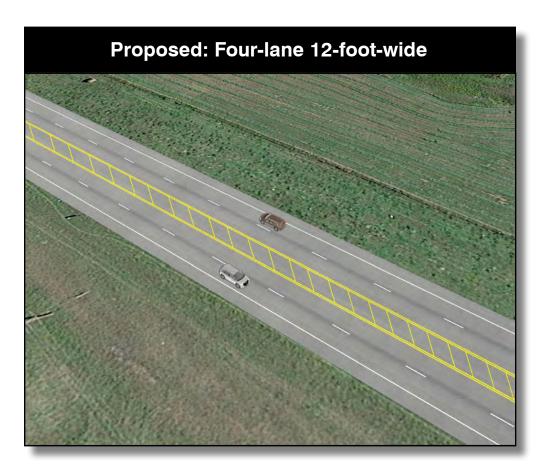
Existing Condition – View southeast from Buckhorn Trail within Theodore Roosevelt National Park - North Unit.



Simulation – Proposed is completely obstructed by vegetation and terrain.



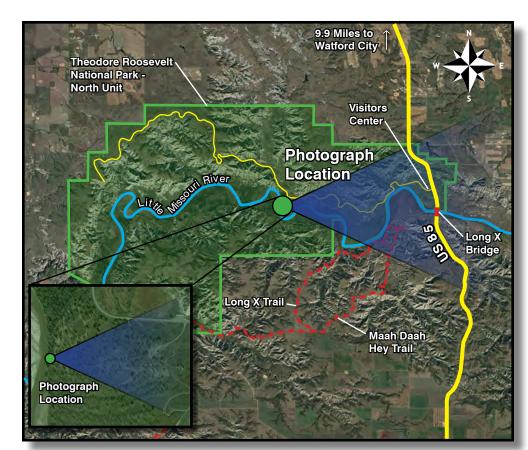
Photograph Location: Viewpoint is approximately 3.9 miles from US 85.





Existing Condition – View east from Achenbach Trail in Juniper Campground within Theodore Roosevelt National Park - North Unit.





Photograph Location: Viewpoint is approximately 4.1 miles from US 85.

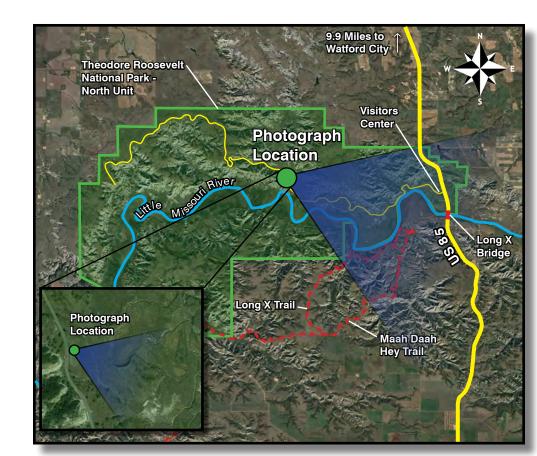


Simulation – Proposed is completely obstructed by vegetation and terrain.



Existing Condition – View east from Long X Trail Pullout within Theodore Roosevelt National Park - North Unit.





Photograph Location: Viewpoint is approximately 4.4 miles from US 85.

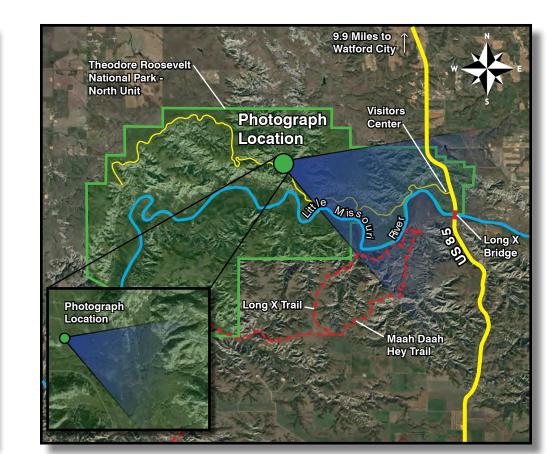


Simulation – Proposed is completely obstructed by terrain.



Existing Condition - View east from Buckhorn Trail within Theodore Roosevelt National Park - North Unit.





Photograph Location: Viewpoint is approximately 4.7 miles from US 85.



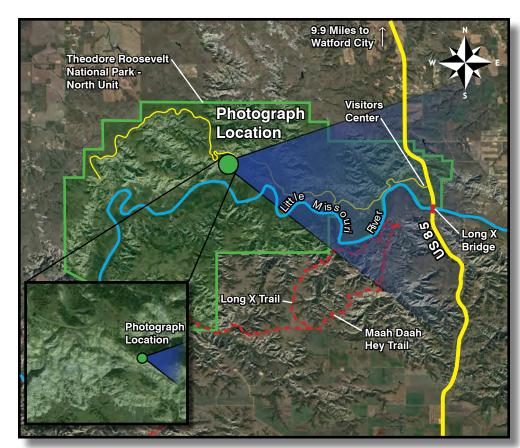
Simulation – Proposed is completely obstructed by terrain.



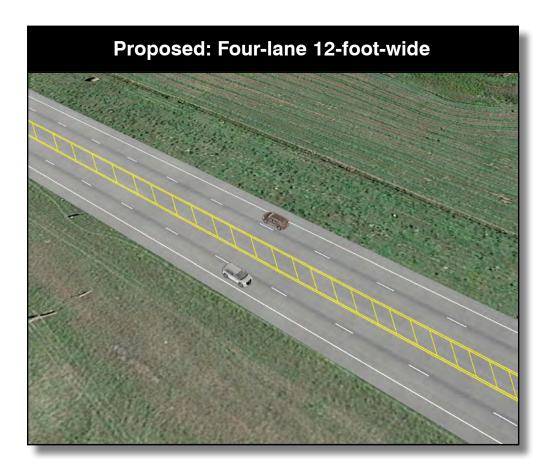
Existing Condition – View east from North Achenbach Overlook within Theodore Roosevelt National Park - North Unit.



Simulation – Proposed is completely obstructed by terrain.



Photograph Location: Viewpoint is approximately 5.6 miles from US 85.





Existing Condition – View east from River Bend Overlook viewing shelter within Theodore Roosevelt National Park - North Unit.



Theodore Roosevelt
National Park North Unit

Photograph
Location

Long X Trail

Photograph
Location

Maah Daah
Hey Trail

Photograph Location: Viewpoint is approximately 5.9 miles from US 85.



Simulation – Proposed is completely obstructed by terrain.



Existing Condition - View northeast from Bentonitic Clay Overlook within Theodore Roosevelt National Park - North Unit.



Theodore Roosevelt
National Park North Unit

Photograph
Location

Visitors
Center

Long X
Bridge

Photograph
Location

Maah Daah
Hou Trail

Photograph Location: Viewpoint is approximately 5.3 miles from US 85.



Simulation – Proposed is visible.



Existing Condition – View east-southeast from Man and Grass Pullout within Theodore Roosevelt National Park - North Unit.



Theodore Roosevelt
National Park North Unit

Photograph
Location

Visitors
Center

River

Long X Trail

Photograph
Location

Maah Daah
Hey Trail.

Photograph Location: Viewpoint is approximately 6.7 miles from US 85.



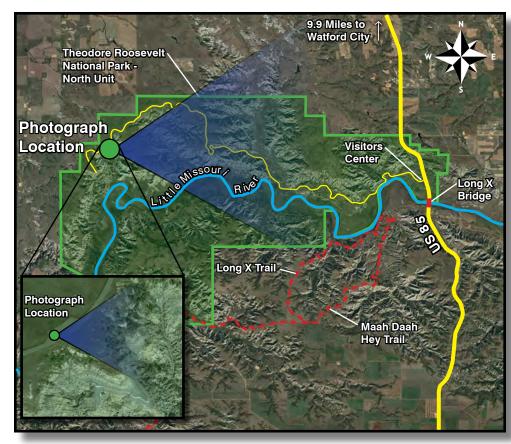
Simulation – Proposed is completely obstructed by terrain.



Existing Condition – View east from Edge of Glacier Pullout within Theodore Roosevelt National Park - North Unit.



Existing Condition View east norm Lage of Glacier Fallout Within Theodore Necessaria National Falls Theorem



Photograph Location: Viewpoint is approximately 8.5 miles from US 85.

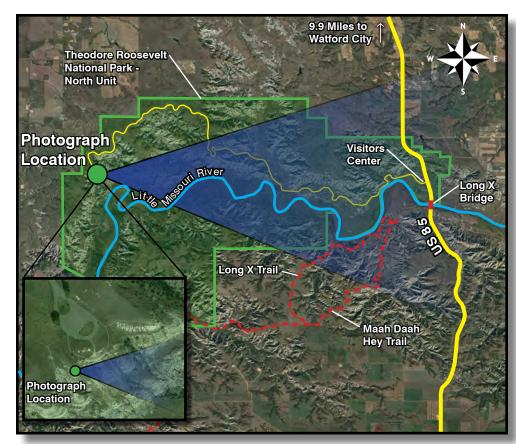


Simulation – Proposed is completely obstructed by terrain.

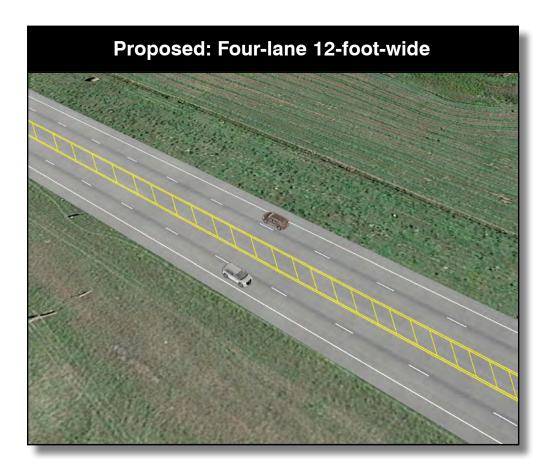


Existing Condition – View east from Oxbow Overlook within Theodore Roosevelt National Park - North Unit.





Photograph Location: Viewpoint is approximately 8.9 miles from US 85.



Simulation – Proposed is completely obstructed by terrain.

E.2. Line-of-Sight Models



