Appendix F

Soils Environmental Consequences Figures, Soils Site Photos and Mapbooks

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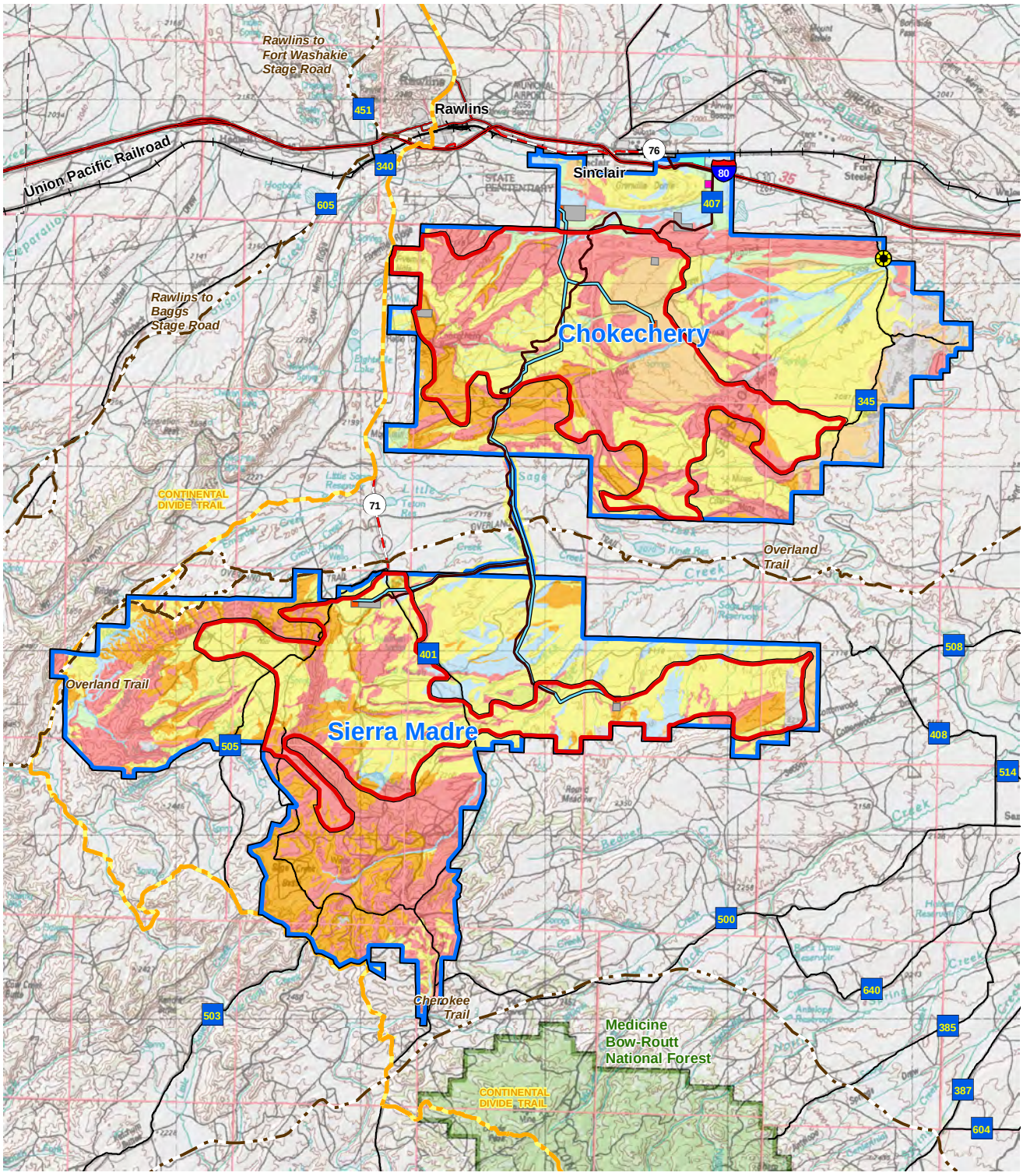

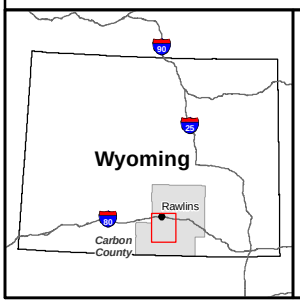

Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area

Water Erosion Hazard

- Slight
- Slight to Moderate
- Slight to Severe
- Moderate
- Moderate to Severe
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-1

Water Erosion Hazard Impacts Associated with Alternative 1R

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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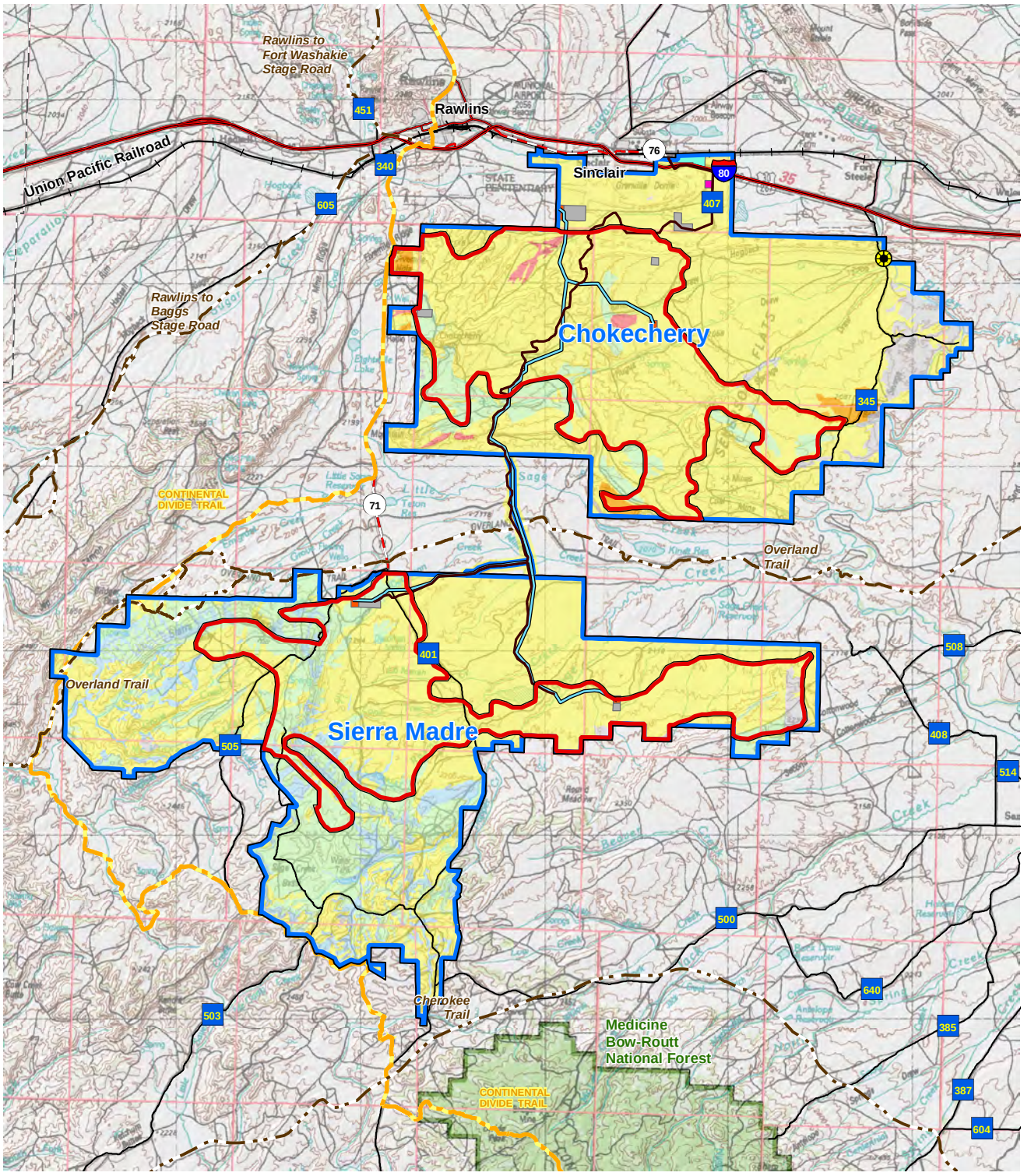

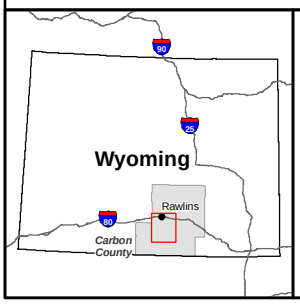

Legend

- Water Extraction Site
- Project Area
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Transmission Line
- Haul Road

Wind Erosion Hazard

- Slight
- Slight to Moderate
- Moderate
- Moderate to Severe
- Severe
- No Data

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Figure 4.9-2

Wind Erosion Hazard Impacts Associated with Alternative 1R

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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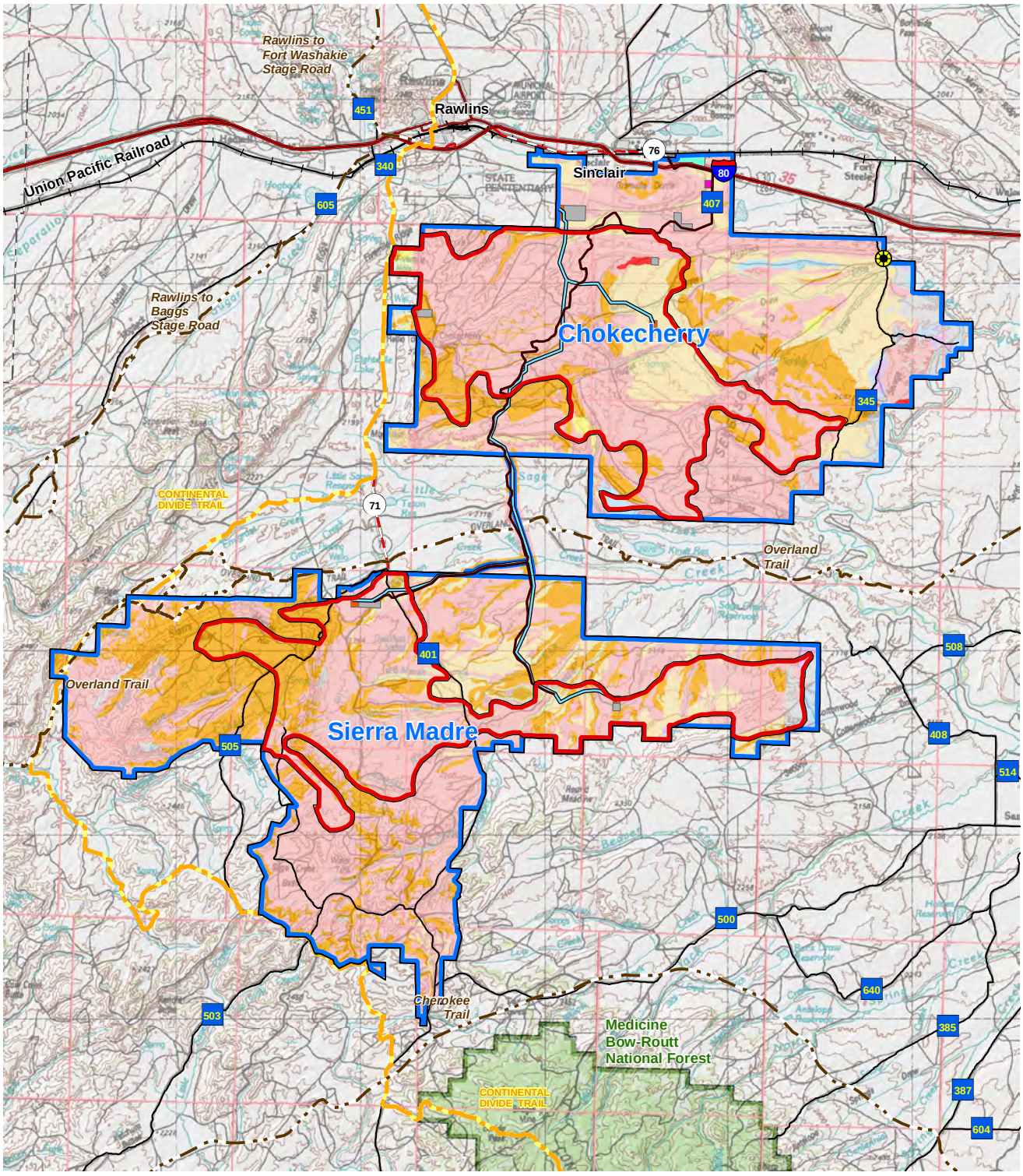
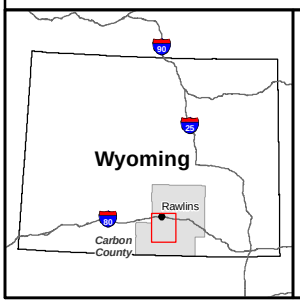




Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area

Surface Runoff Potential

- Very Low
- Low
- Low to Moderate
- Low to High
- Moderate
- Moderate to High
- High
- Very High
- No Data

Chokecherry and Sierra Madre Wind Energy Project

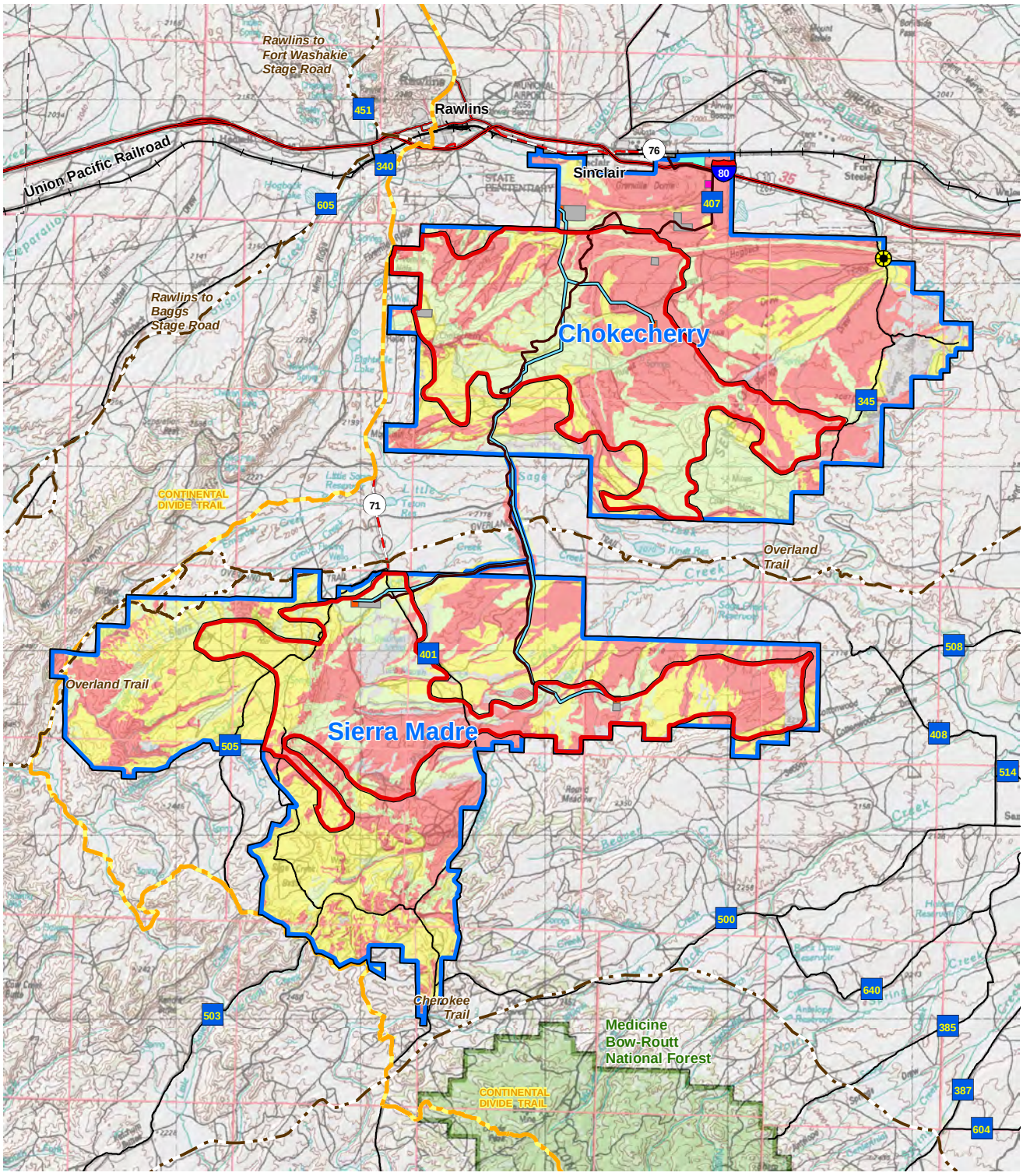
Figure 4.9-3

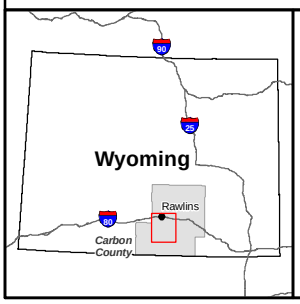
Surface Runoff Potential - Impacts Associated with Alternative 1R

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000

N

X:\0Projects\12907_001_Wyoming_WindFigures\EIS\PDEIS\Figure_4_09-04_Alt1R_TopsoilRating_20100917.mxd





Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area
- Likely Area of Turbine Construction

Topsoil Rating

- Good
- Fair
- Poor
- No Data

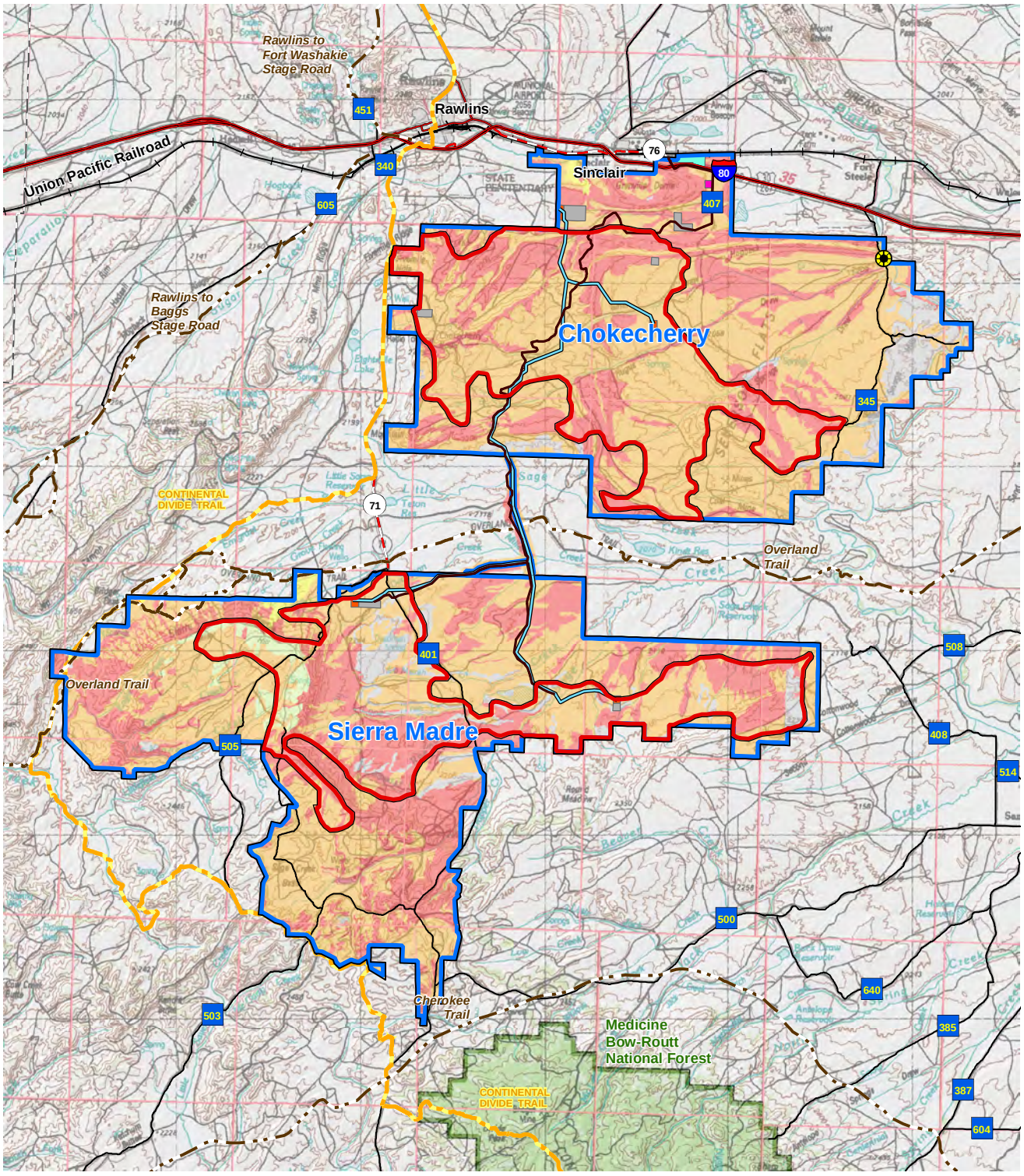
Chokecherry and Sierra Madre Wind Energy Project

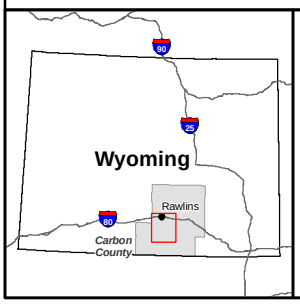
Figure 4.9-4

Impacts to Topsoils Associated with Alternative 1R

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

X:\0Projects\12907_001_Wyoming_WindFigures\EIS\PDEIS\Figure_4_09-05_Alt1R_RoadRating_20100917.mxd





Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area
- Likely Area of Turbine Construction

Road Limitations

- Slight
- Slight to Moderate
- Moderate
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

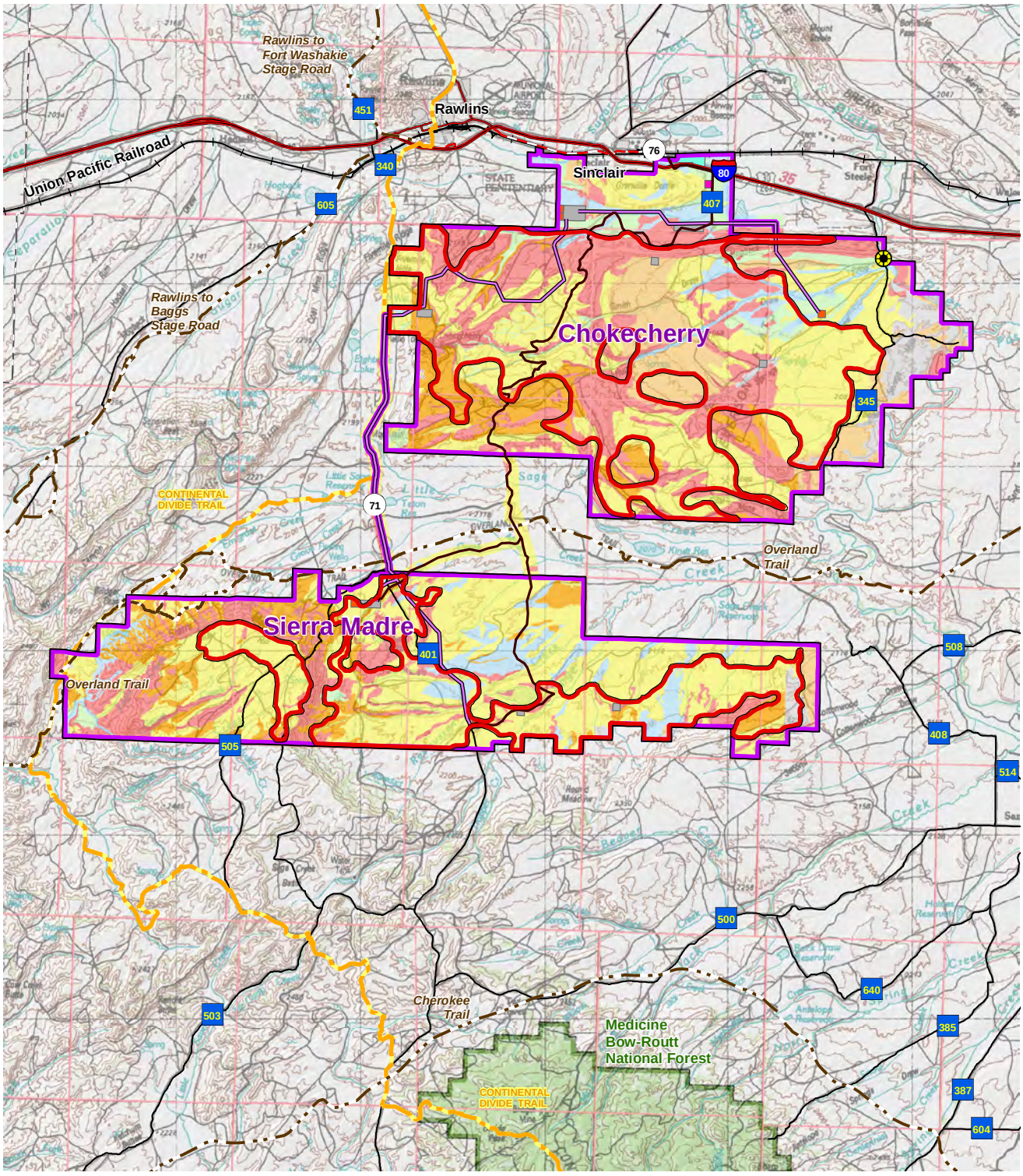
Figure 4.9-5

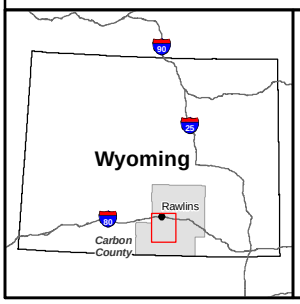
Road Limitations Associated with Alternative 1R

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000

N

X:\0Projects\12907_001_Wyoming_WindFigures\EIS\PDEIS\Figure_4_09-06_Alt2_WaterErosion_20100917.mxd





Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area

Water Erosion Hazard

- Slight
- Slight to Moderate
- Slight to Severe
- Moderate
- Moderate to Severe
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-6

Water Erosion Hazard Impacts Associated with Alternative 2

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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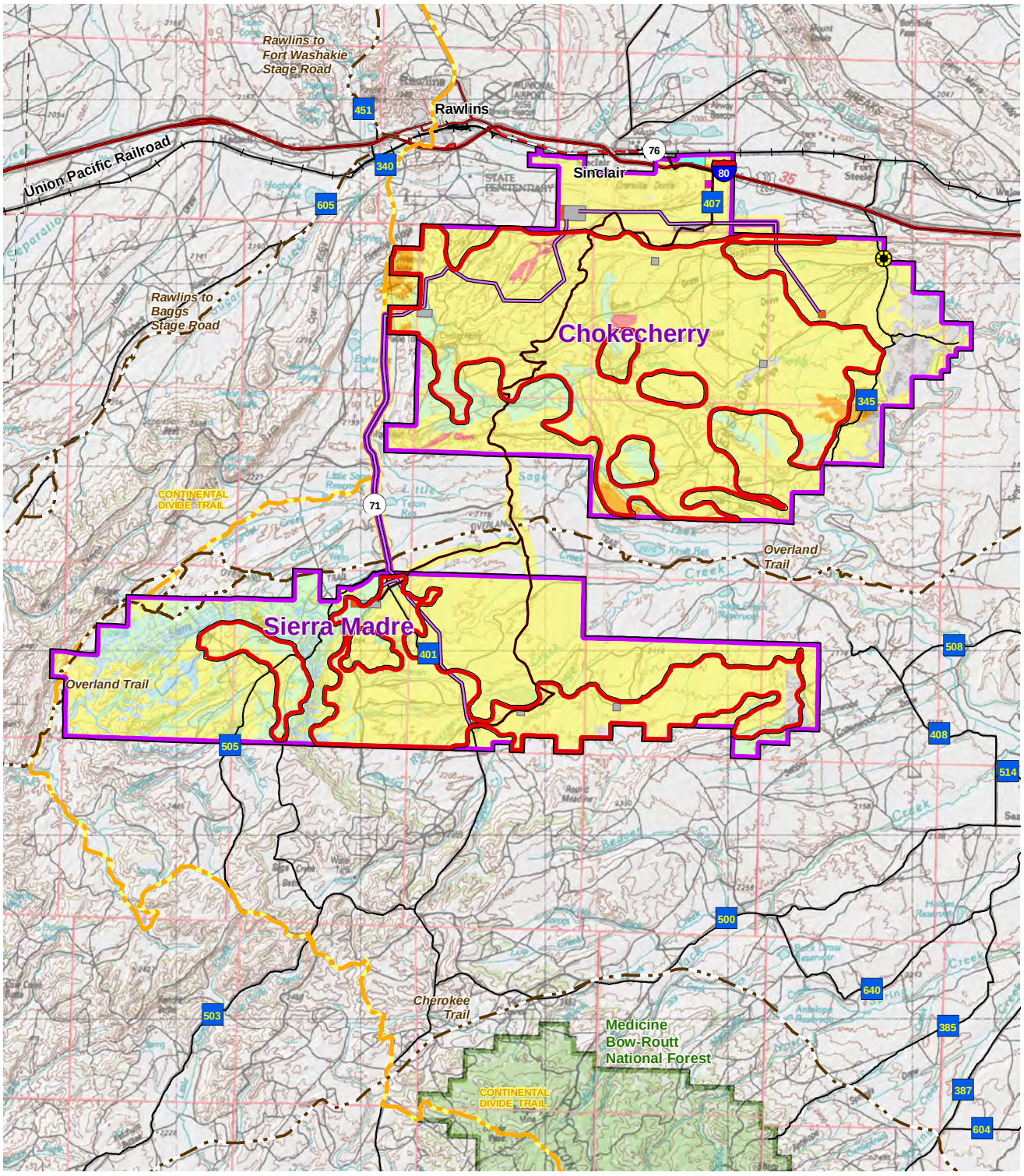

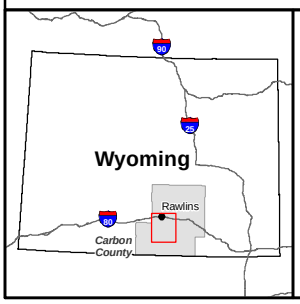

Legend

- Water Extraction Site
- Project Area
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Transmission Line
- Haul Road

Wind Erosion Hazard

- Slight
- Slight to Moderate
- Moderate
- Moderate to Severe
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-7

Wind Erosion Hazard Impacts Associated with Alternative 2

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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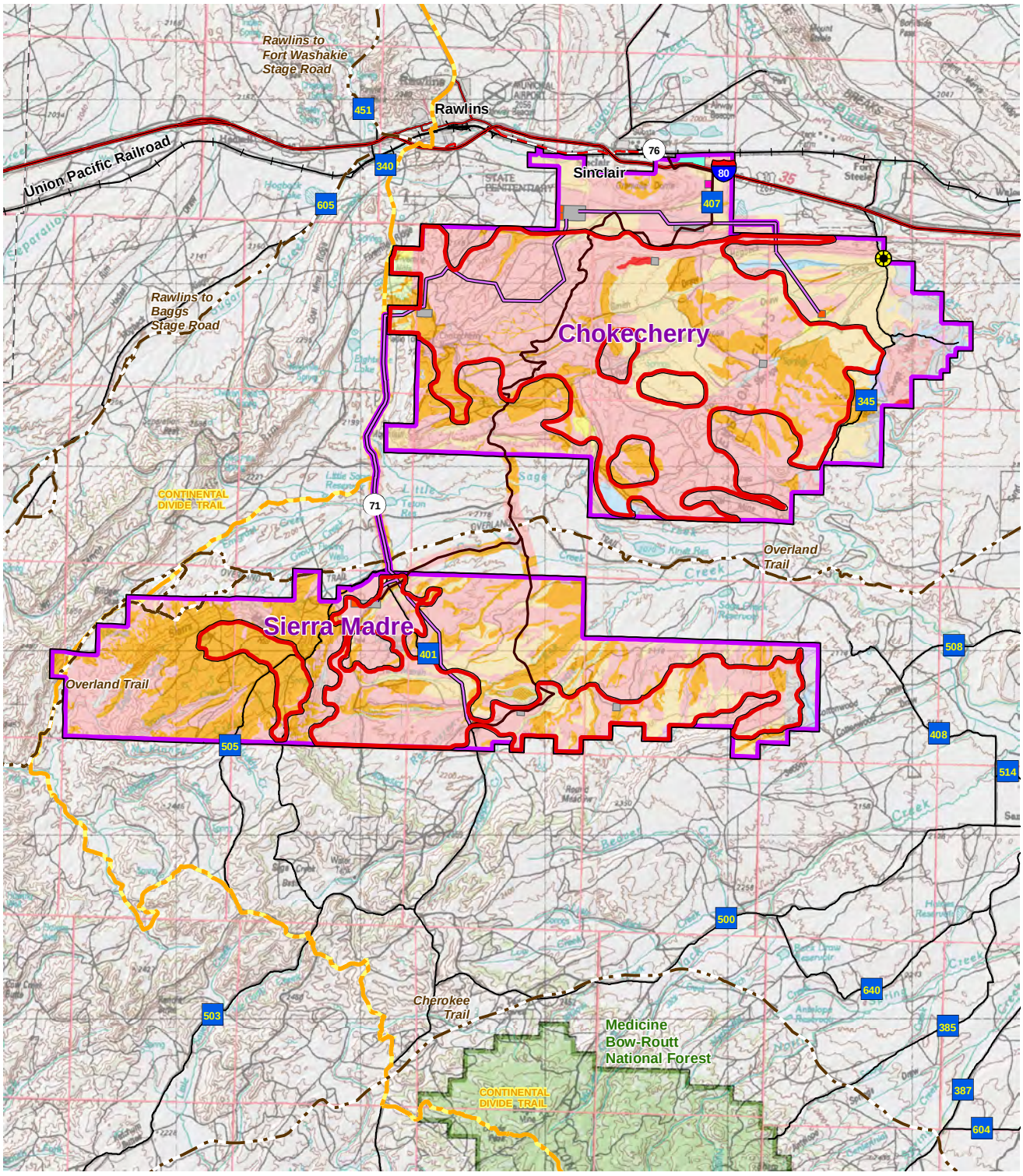

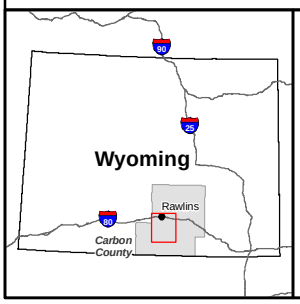

Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area

Surface Runoff Potential

- Very Low
- Low
- Low to Moderate
- Low to High
- Moderate
- Moderate to High
- High
- Very High
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-8

Surface Runoff Potential - Impacts Associated with Alternative 2

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000

N

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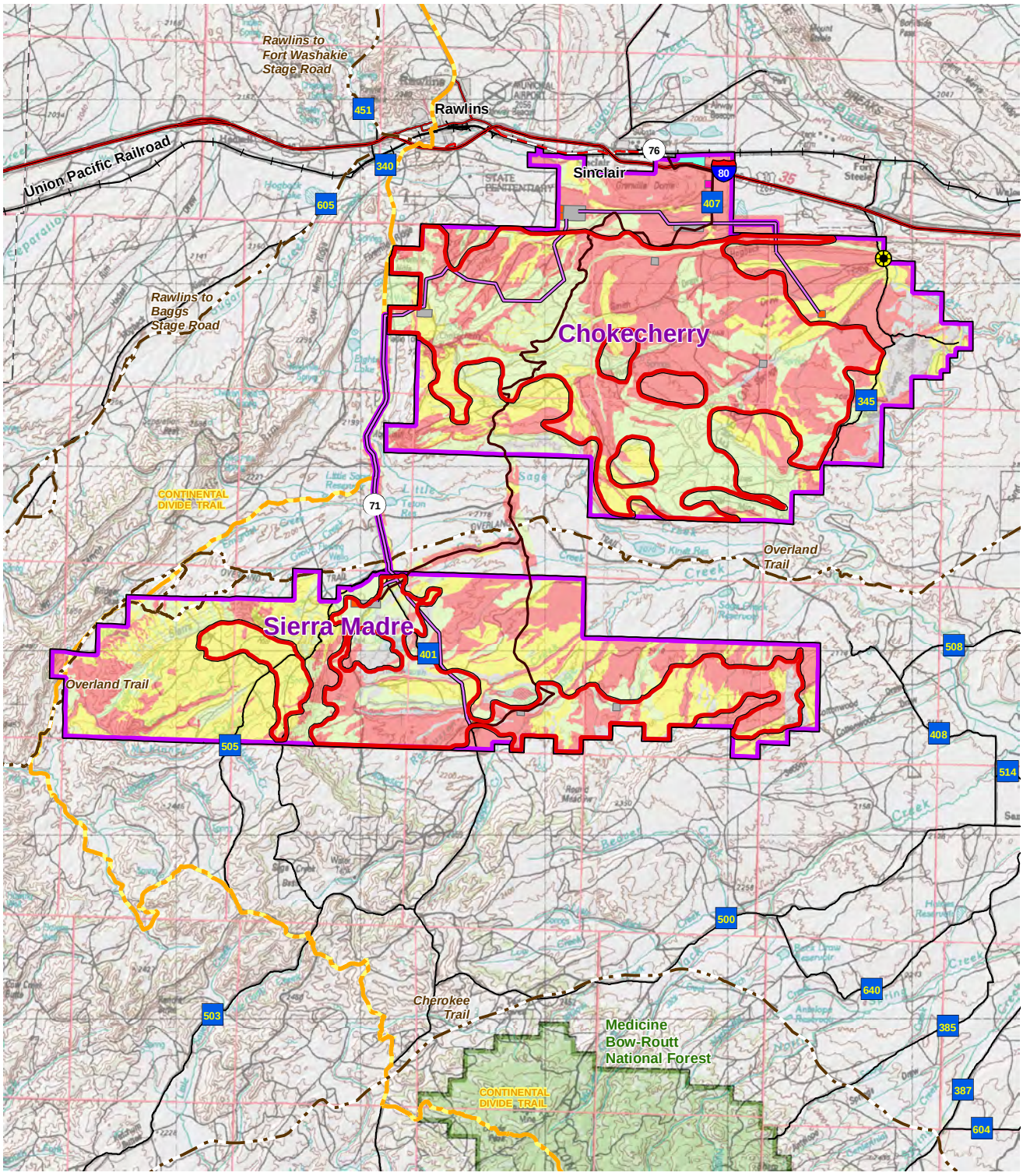

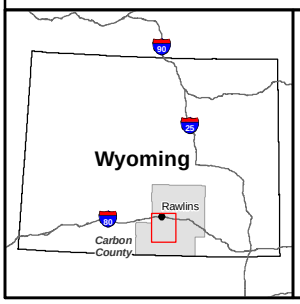

Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area
- Likely Area of Turbine Construction

Topsoil Rating

- Good
- Fair
- Poor
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-9

Impacts to Topsoils Associated with Alternative 2

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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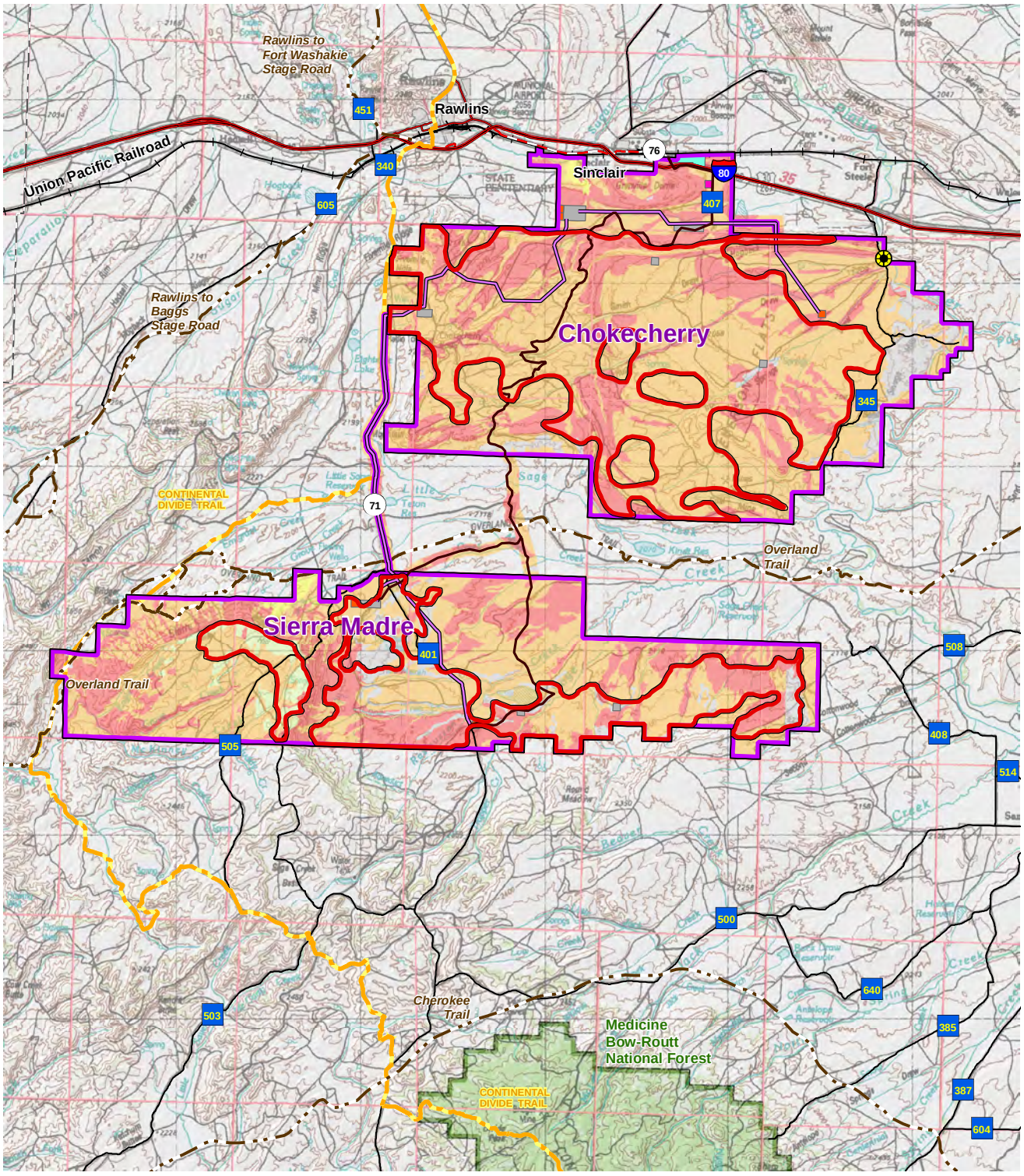

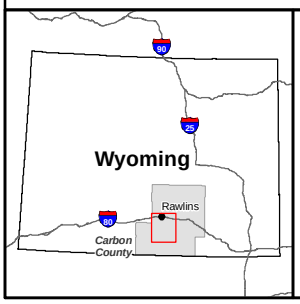

Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area
- Likely Area of Turbine Construction

Road Limitations

- Slight
- Slight to Moderate
- Moderate
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-10

Road Limitations Associated with Alternative 2

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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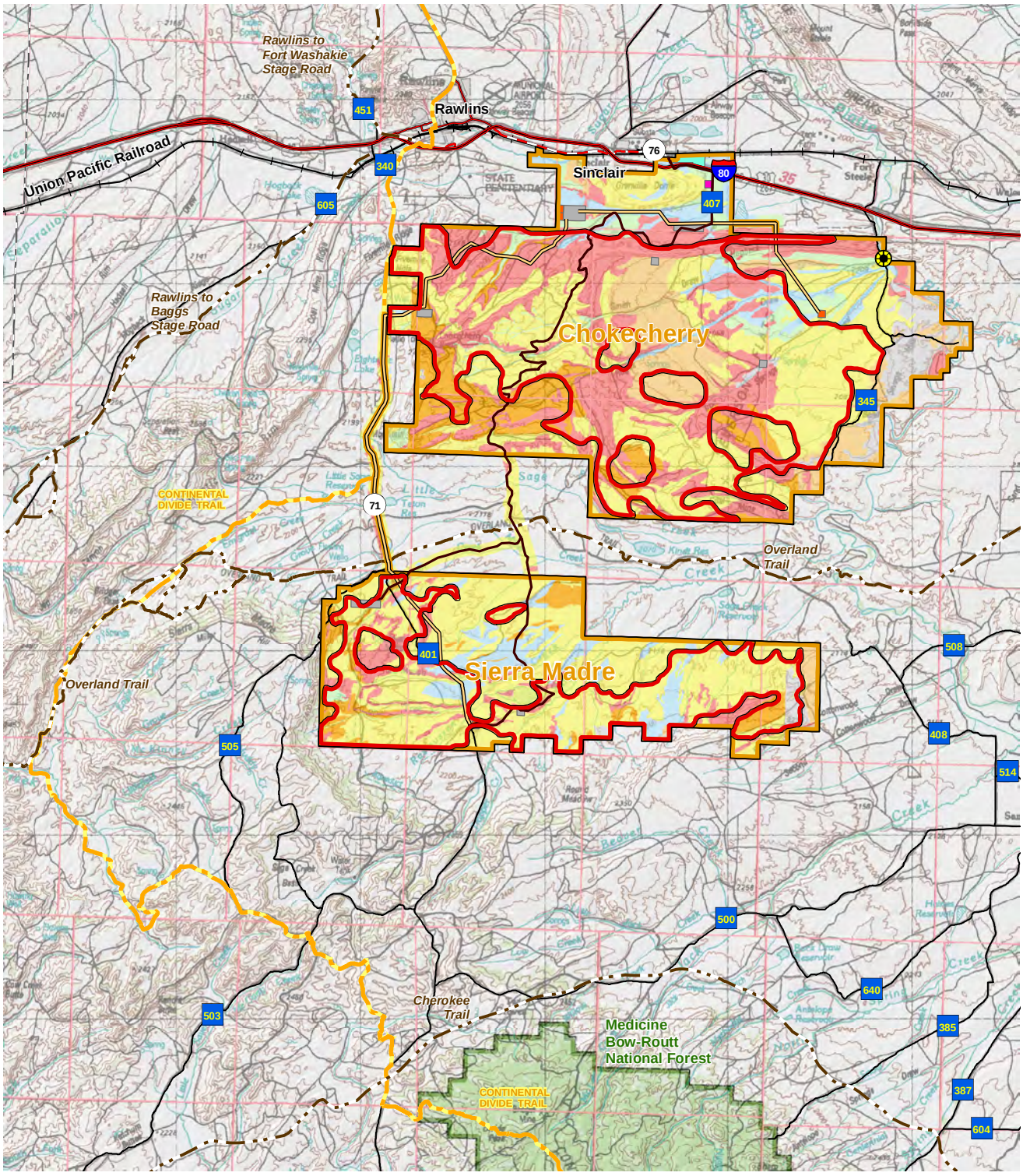

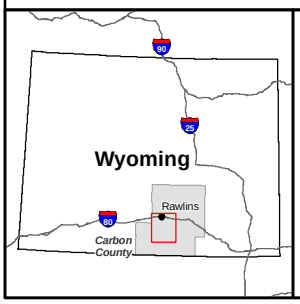

Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area

Water Erosion Hazard

- Slight
- Slight to Moderate
- Slight to Severe
- Moderate
- Moderate to Severe
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-11

Water Erosion Hazard Impacts Associated with Alternative 3

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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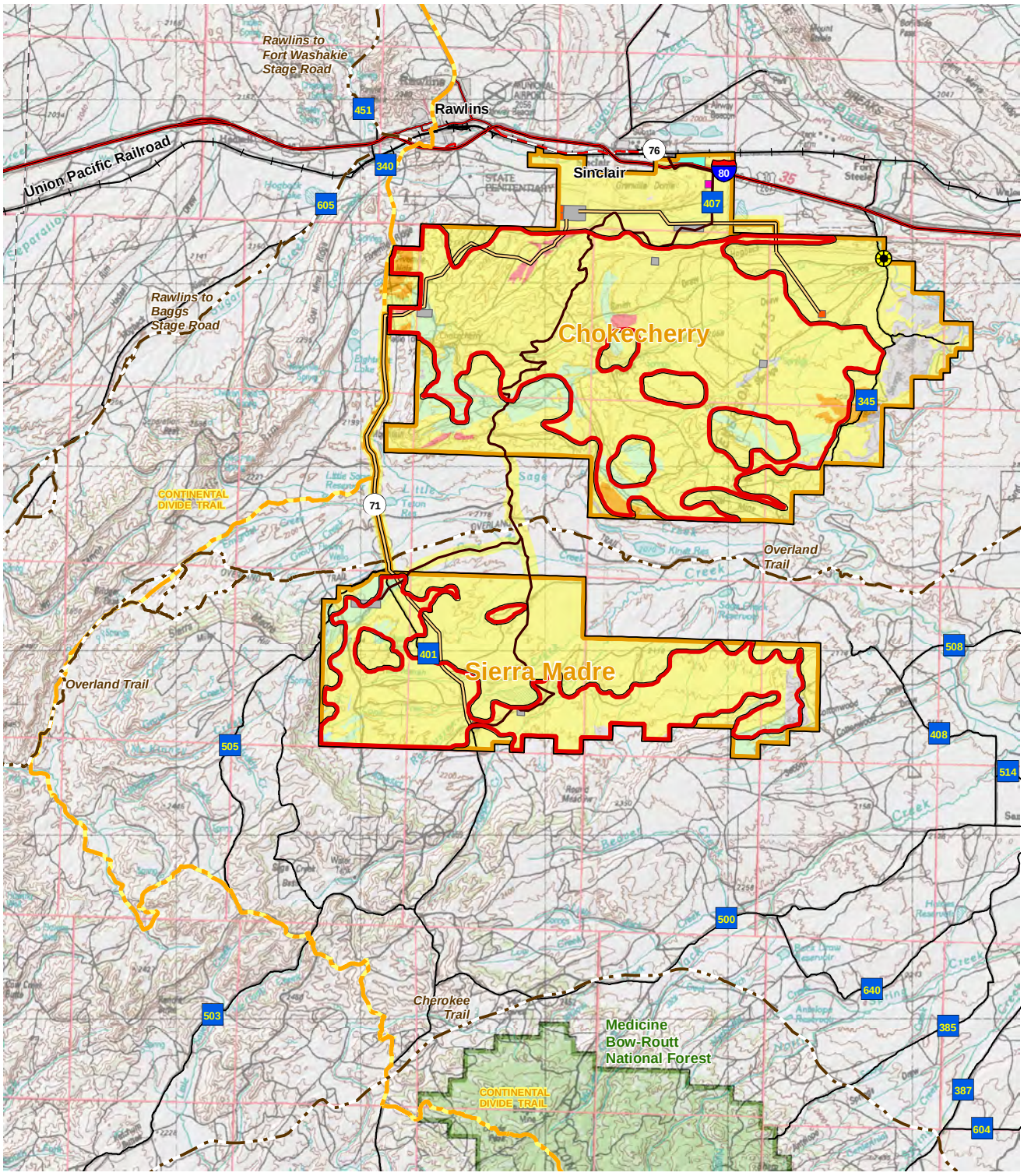

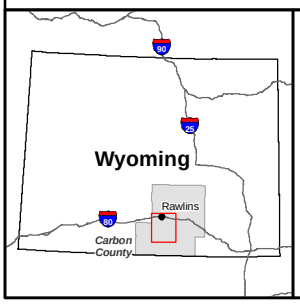

Legend

- Water Extraction Site
- Project Area
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Transmission Line
- Haul Road

Wind Erosion Hazard

- Slight
- Slight to Moderate
- Moderate
- Moderate to Severe
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-12

Wind Erosion Hazard Impacts Associated with Alternative 3

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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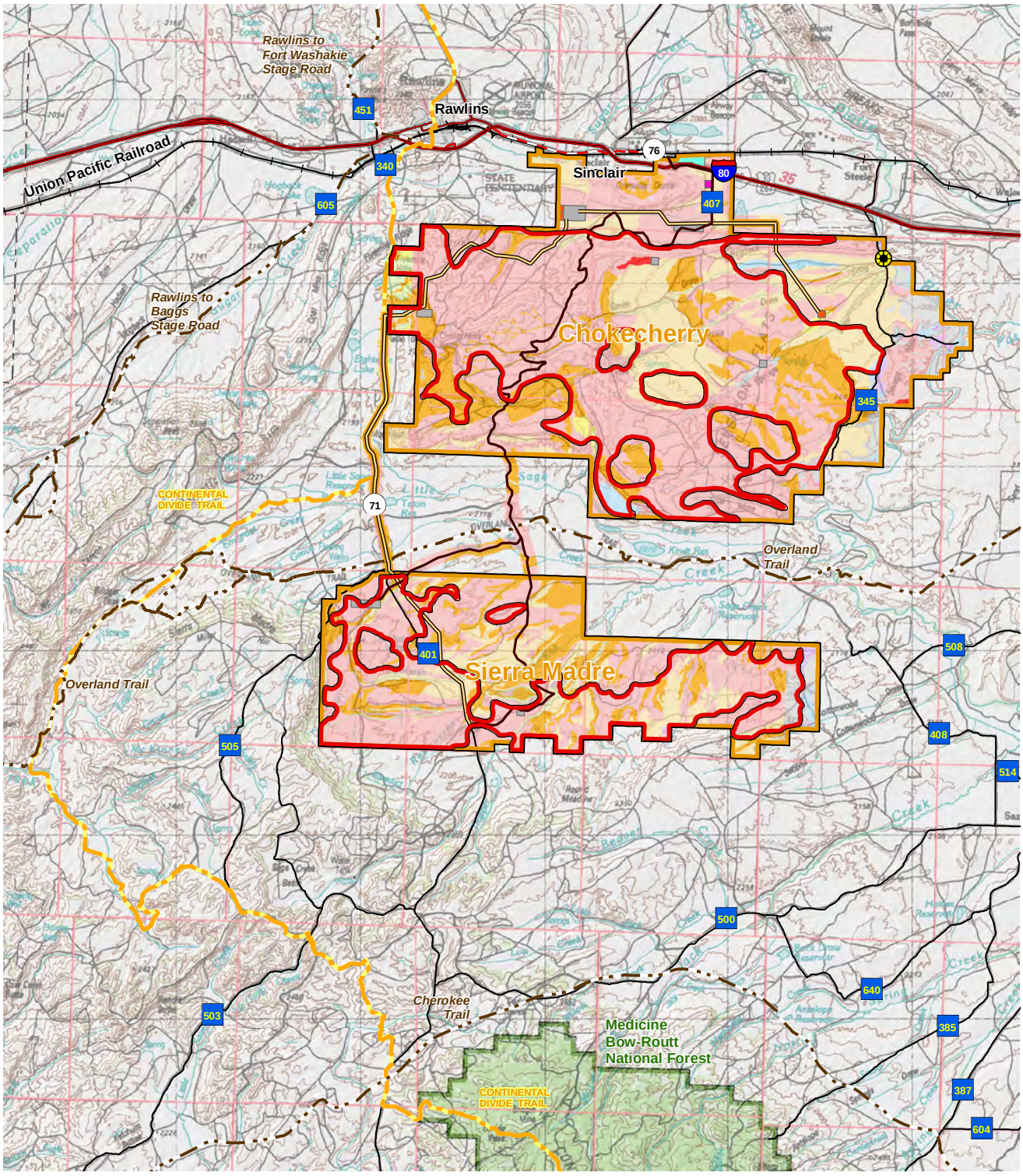
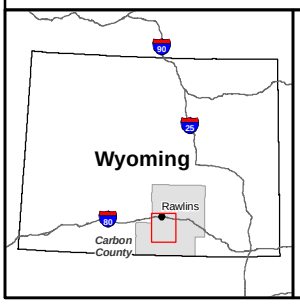




Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area

Surface Runoff Potential

- Very Low
- Low
- Low to Moderate
- Low to High
- Moderate
- Moderate to High
- High
- Very High
- No Data

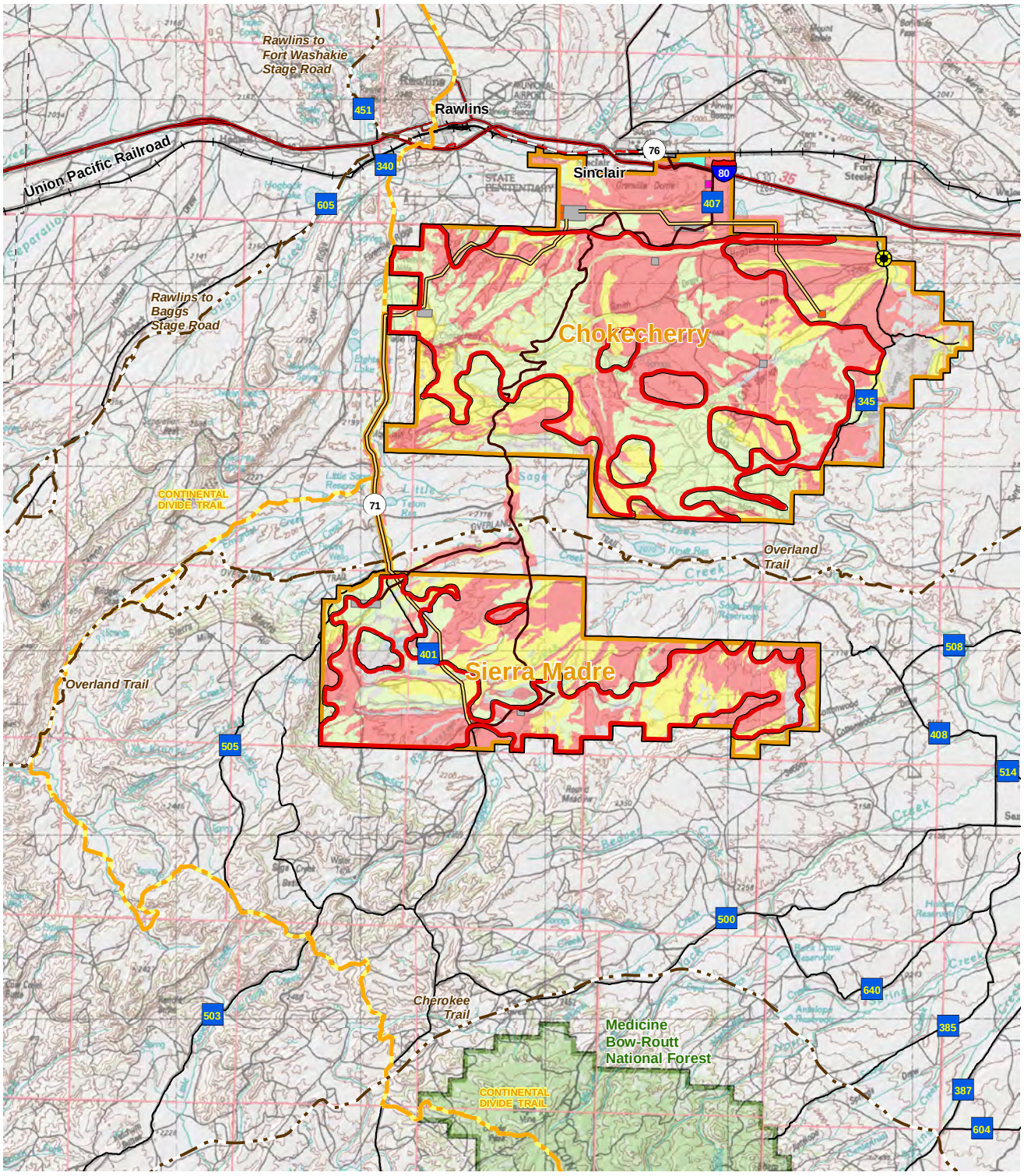
Chokecherry and Sierra Madre Wind Energy Project

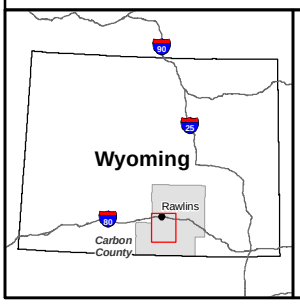
Figure 4.9-13

Surface Runoff Potential - Impacts Associated with Alternative 3

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

X:\0Projects\12907_001_Wyoming_WindFigures\EIS\PDEIS\Figure_4_09-14_Alt3_TopsoilRating_20100917.mxd





Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area
- Likely Area of Turbine Construction

Topsoil Rating

- Good
- Fair
- Poor
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-14

Impacts to Topsoils Associated with Alternative 3

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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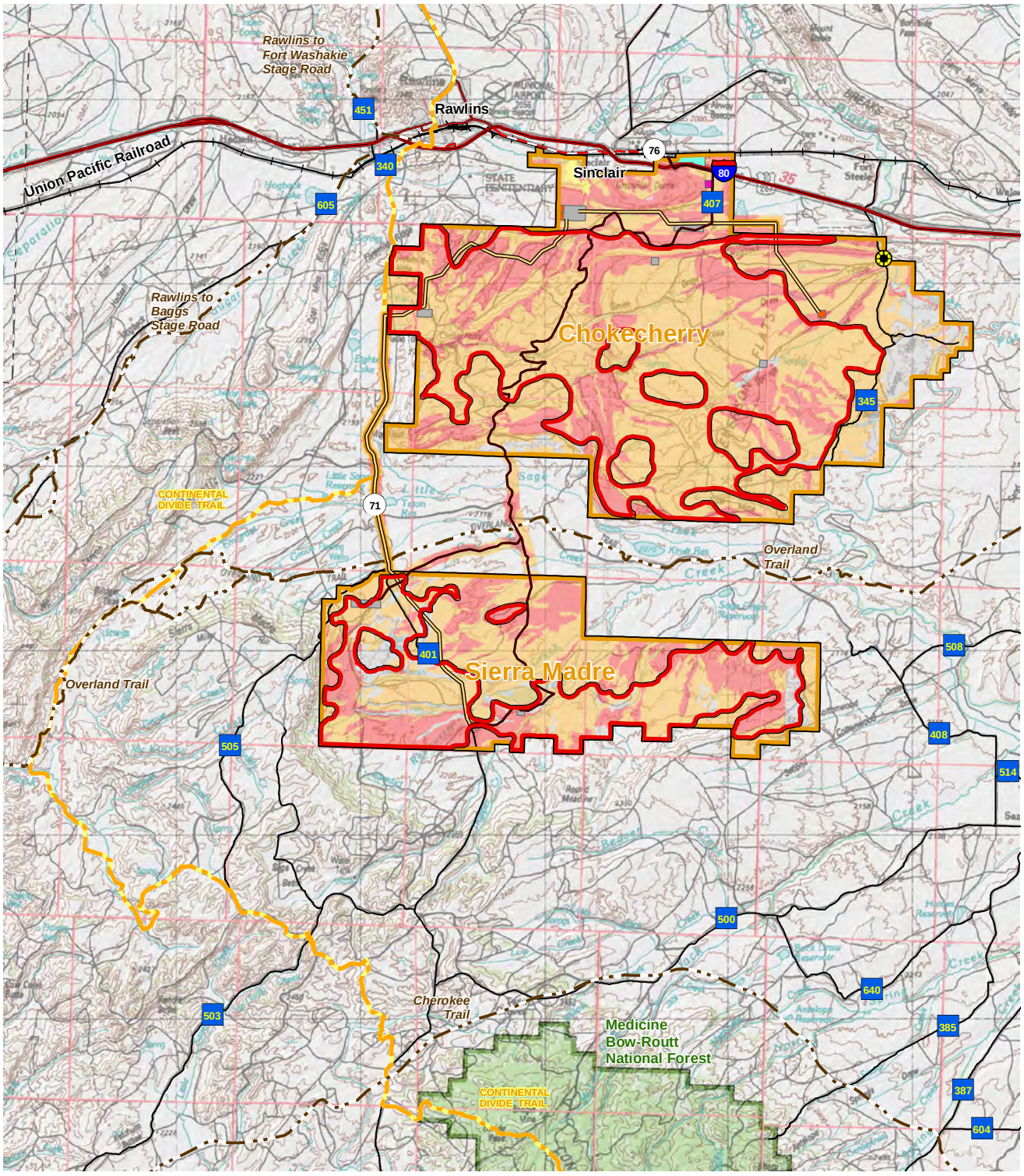

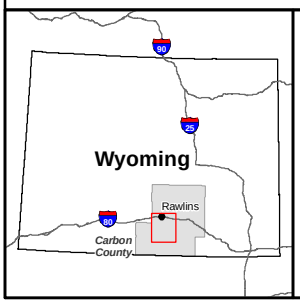

Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area
- Likely Area of Turbine Construction

Road Limitations

- Slight
- Slight to Moderate
- Moderate
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-15

Road Limitations Associated with Alternative 3

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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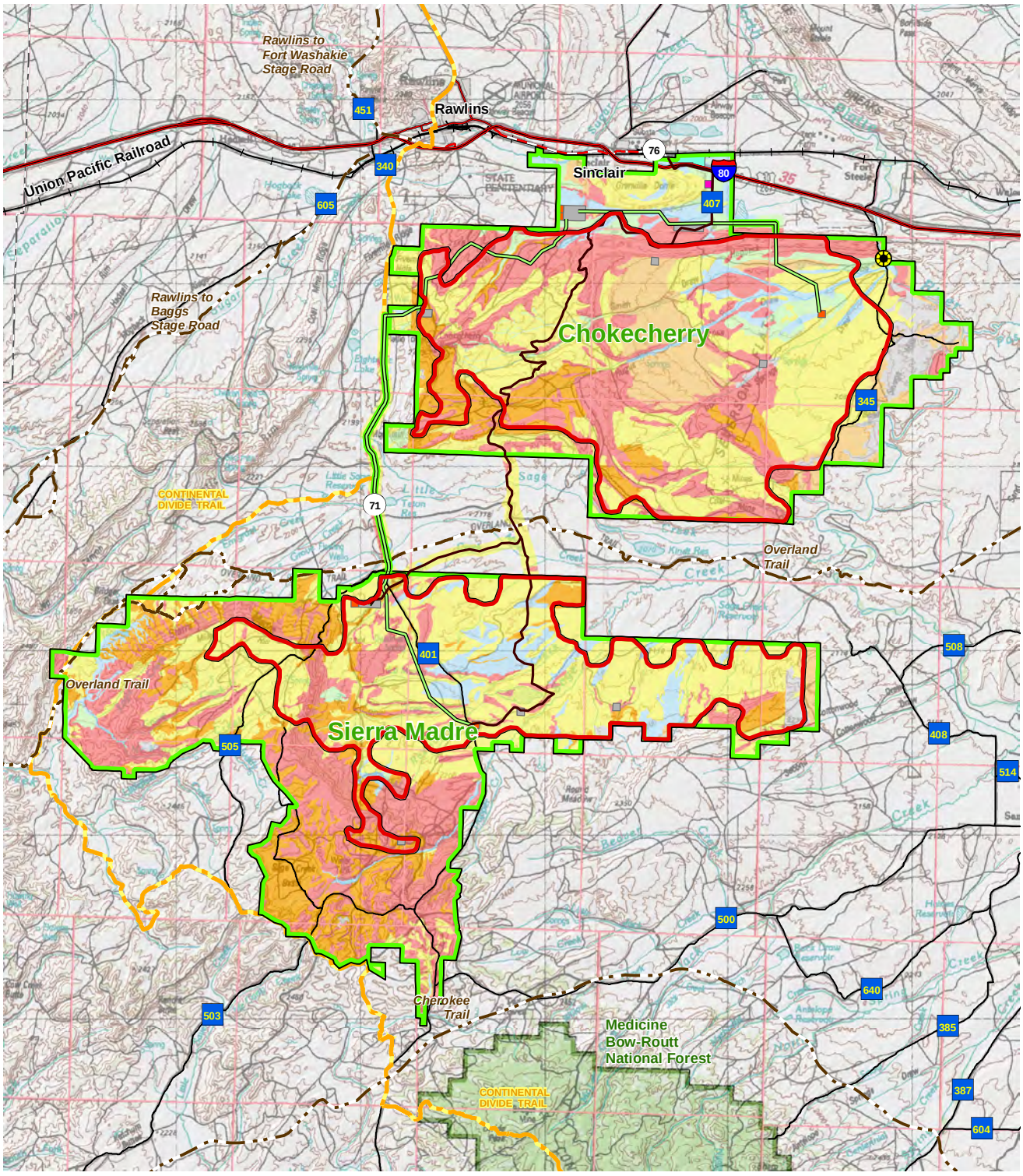
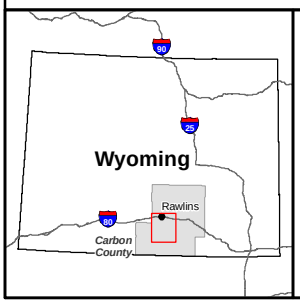




Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area

Water Erosion Hazard

- Slight
- Slight to Moderate
- Slight to Severe
- Moderate
- Moderate to Severe
- Severe
- No Data

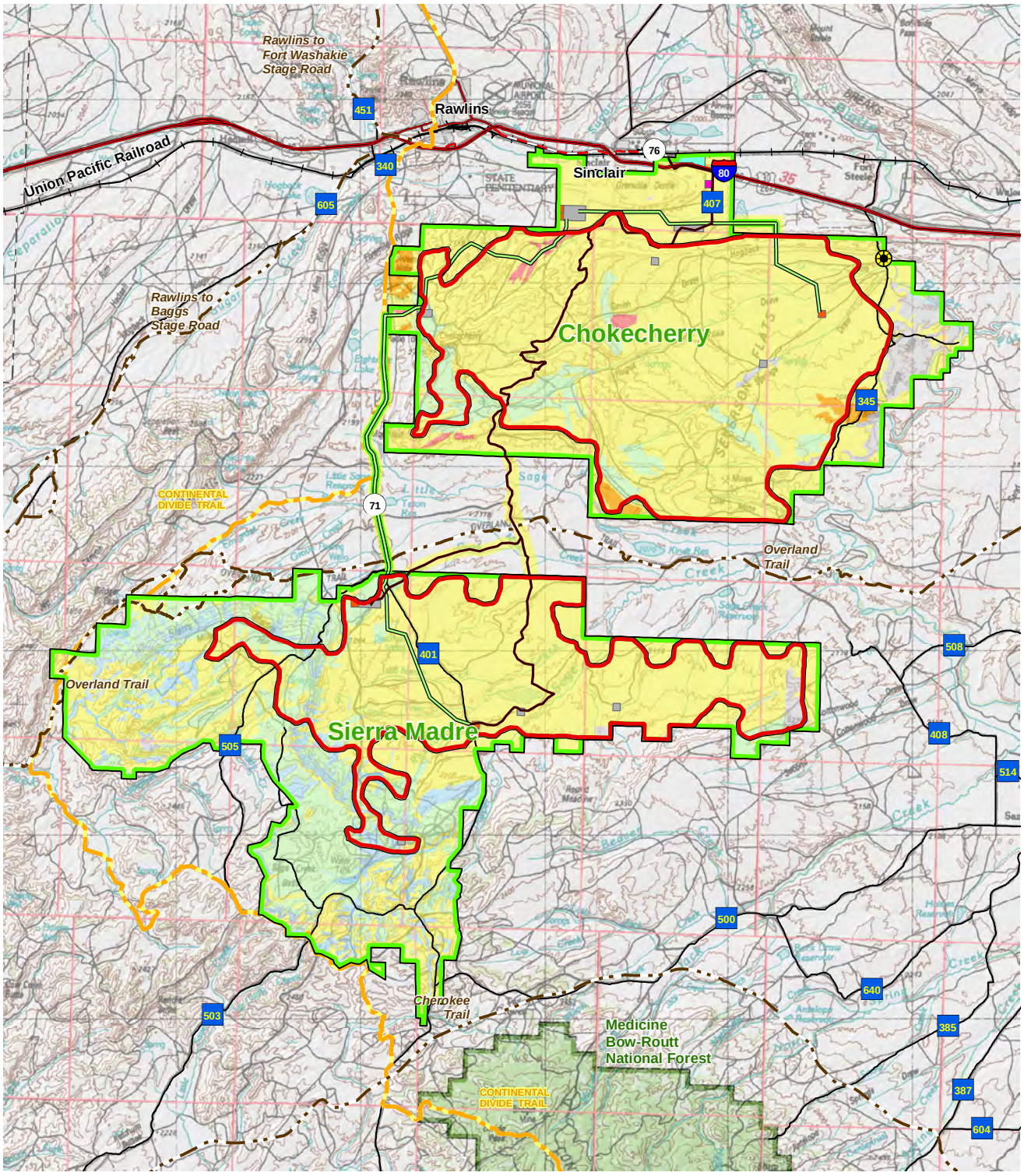
Chokecherry and Sierra Madre Wind Energy Project

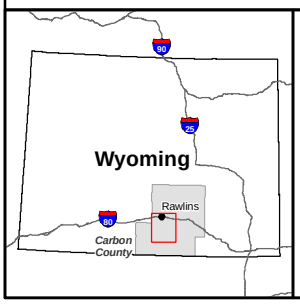
Figure 4.9-16

Water Erosion Hazard Impacts Associated with Alternative 4

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

X:\0Projects\12907_001_Wyoming_WindFigures\EIS\PDEIS\Figure_4_09-17_Alt4_WindErosion_20100917.mxd





Legend

- Water Extraction Site
- Project Area
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Transmission Line
- Haul Road

Wind Erosion Hazard

- Slight
- Slight to Moderate
- Moderate
- Moderate to Severe
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-17

Wind Erosion Hazard Impacts Associated with Alternative 4

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
N

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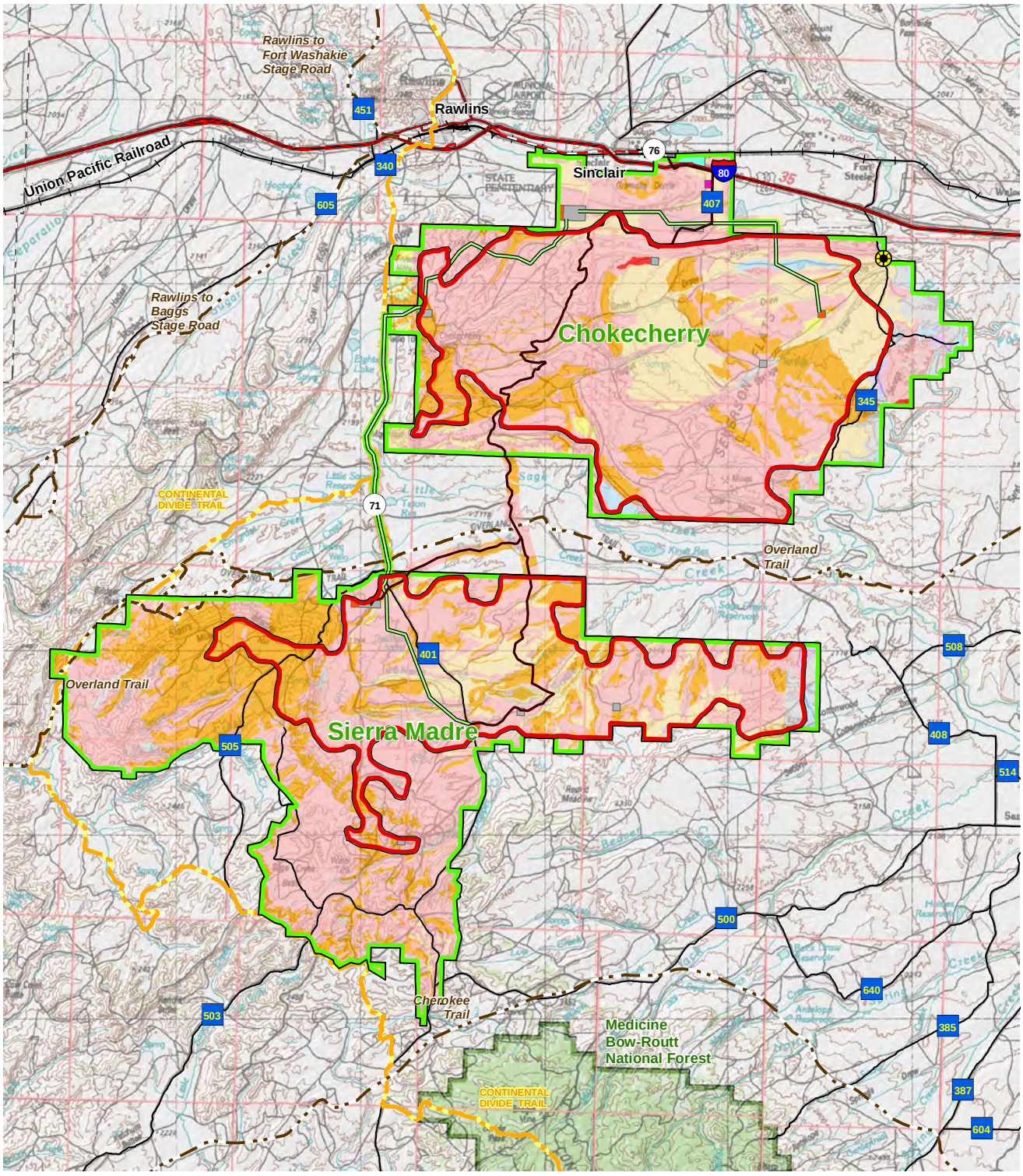

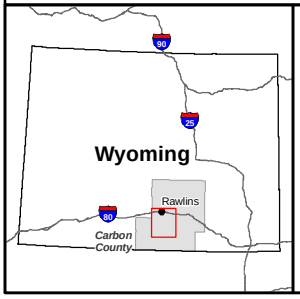

Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Likely Area of Turbine Construction
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area

Surface Runoff Potential

- Very Low
- Low
- Low to Moderate
- Low to High
- Moderate
- Moderate to High
- High
- Very High
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-18

Surface Runoff Potential - Impacts Associated with Alternative 4

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000

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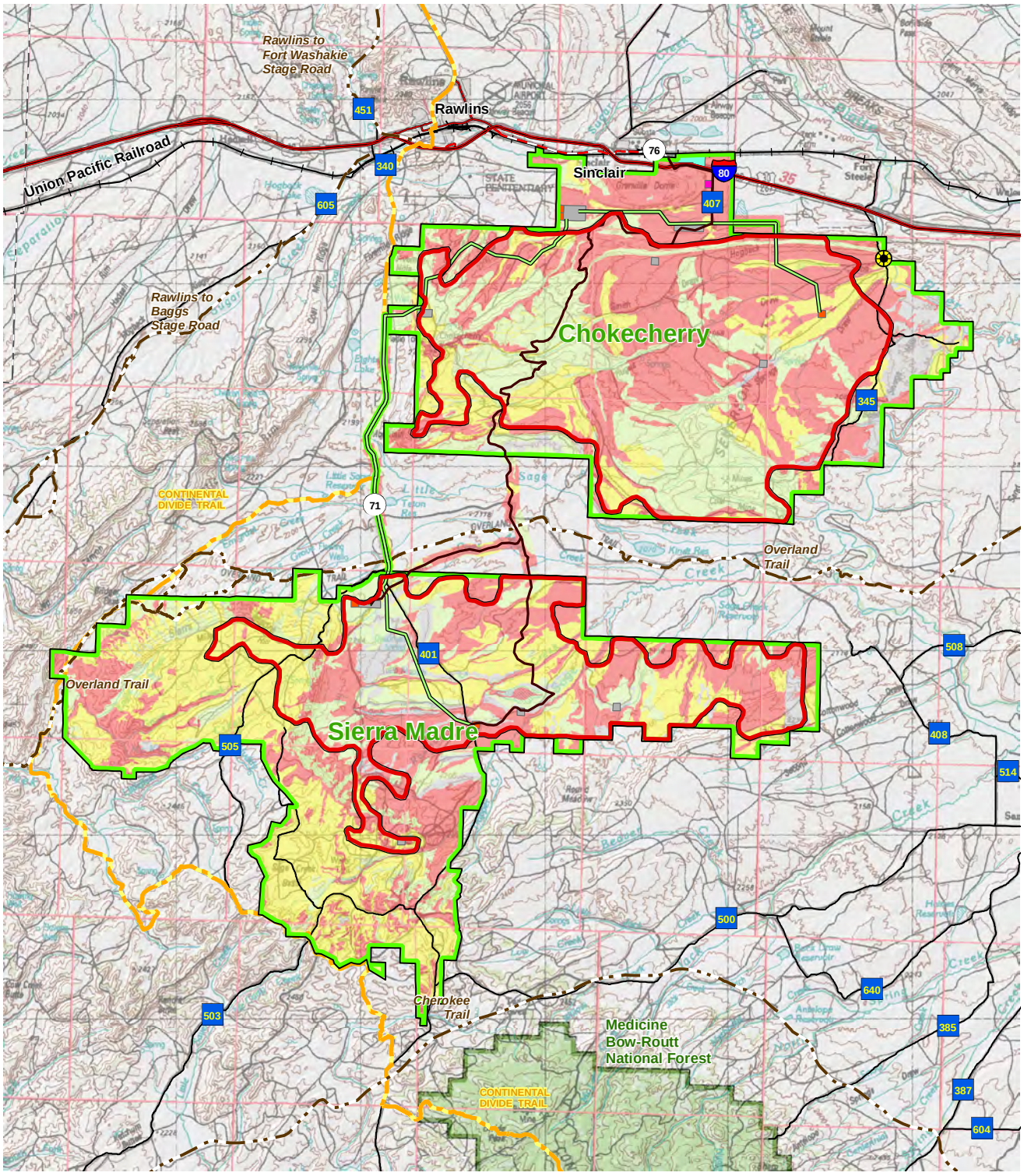

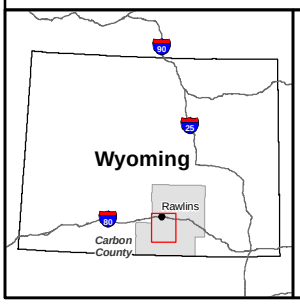

Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area
- Likely Area of Turbine Construction

Topsoil Rating

- Good
- Fair
- Poor
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-19

Impacts to Topsoils Associated with Alternative 4

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
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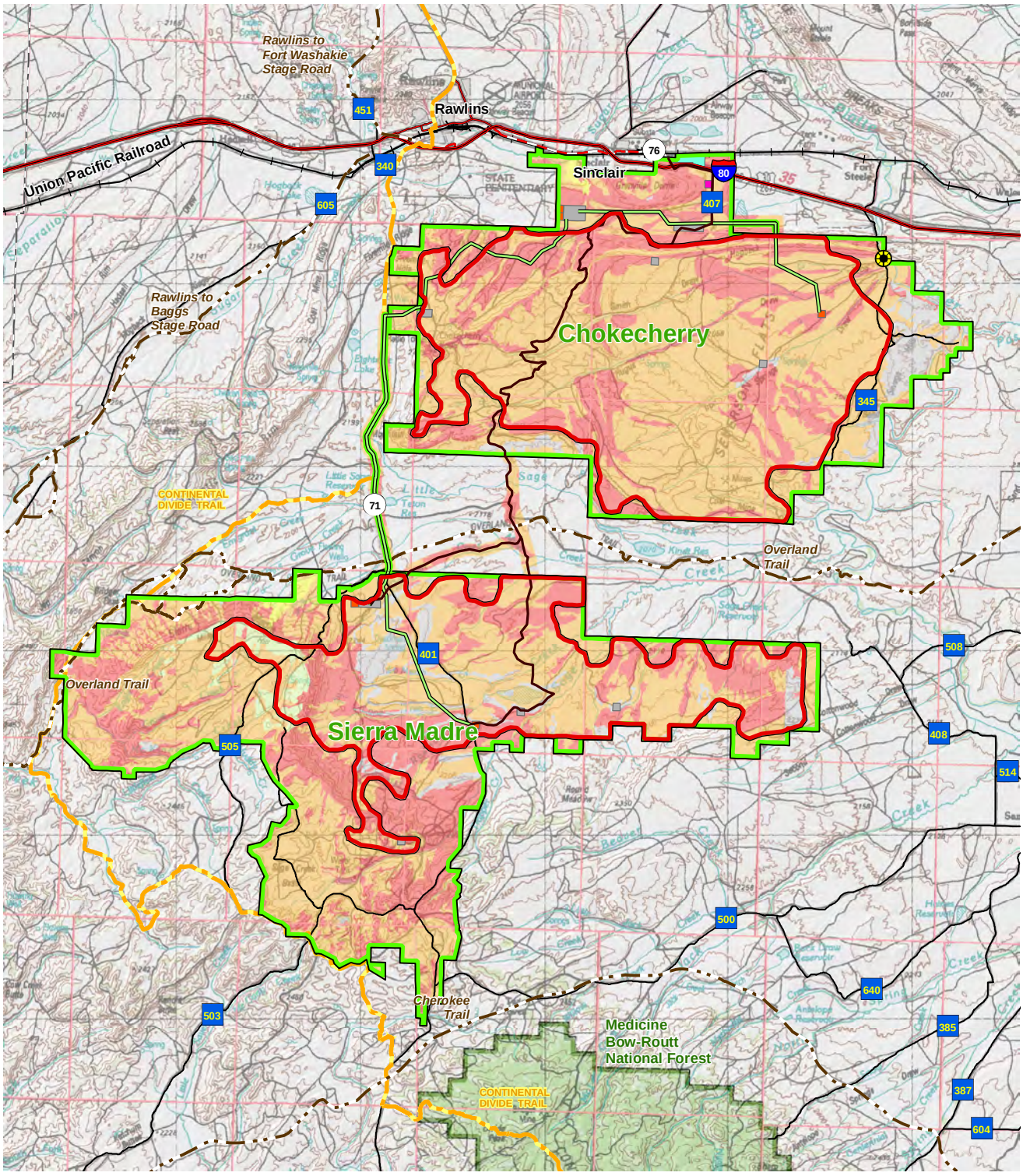

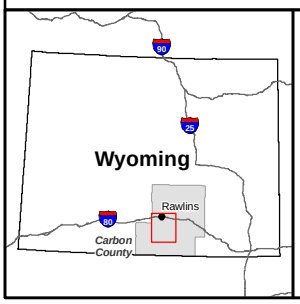

Legend

- Water Extraction Site
- Transmission Line
- Haul Road
- Alternate O&M Facility
- Intermodal Rail Facility
- Staging Area (Construction Only)
- Substation
- Project Area
- Likely Area of Turbine Construction

Road Limitations

- Slight
- Slight to Moderate
- Moderate
- Severe
- No Data

Chokecherry and Sierra Madre Wind Energy Project

Figure 4.9-20

Road Limitations Associated with Alternative 4

0 1 2 4 Miles
0 2 4 8 Kilometers
1:320,000
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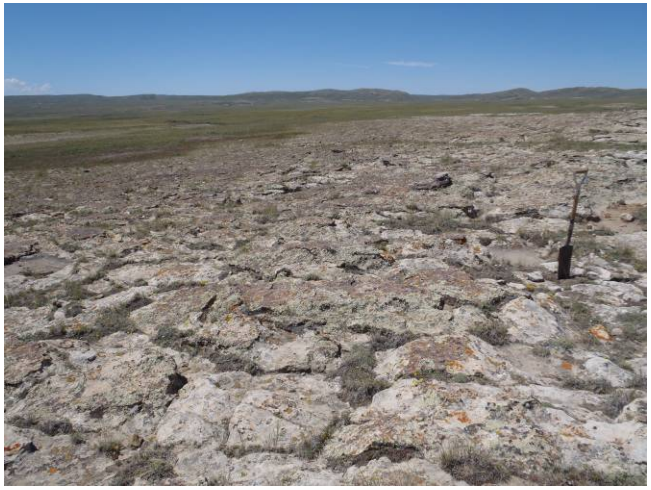

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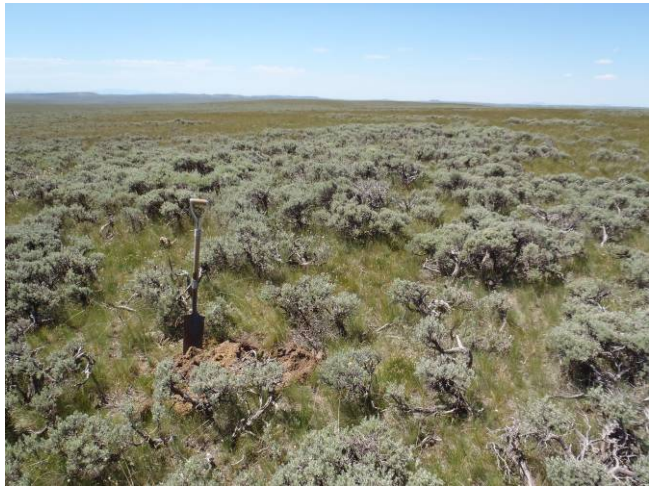

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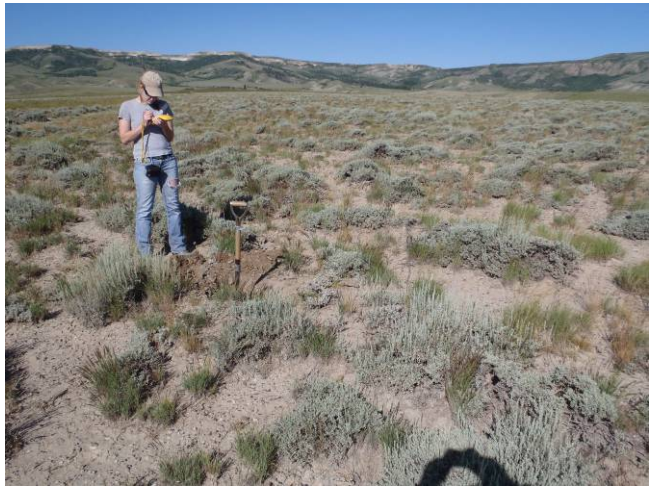

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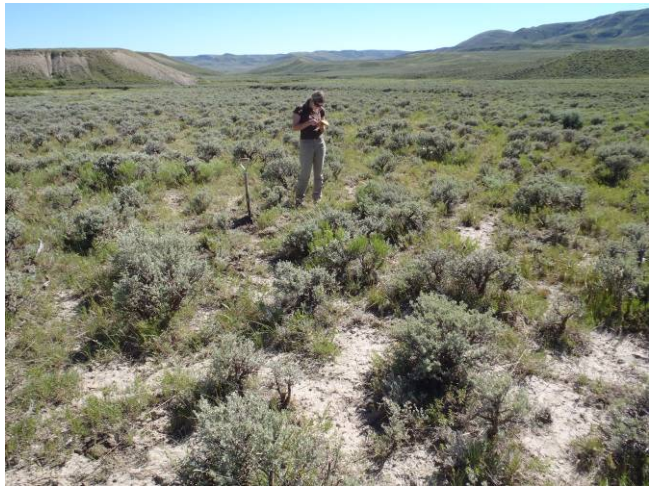

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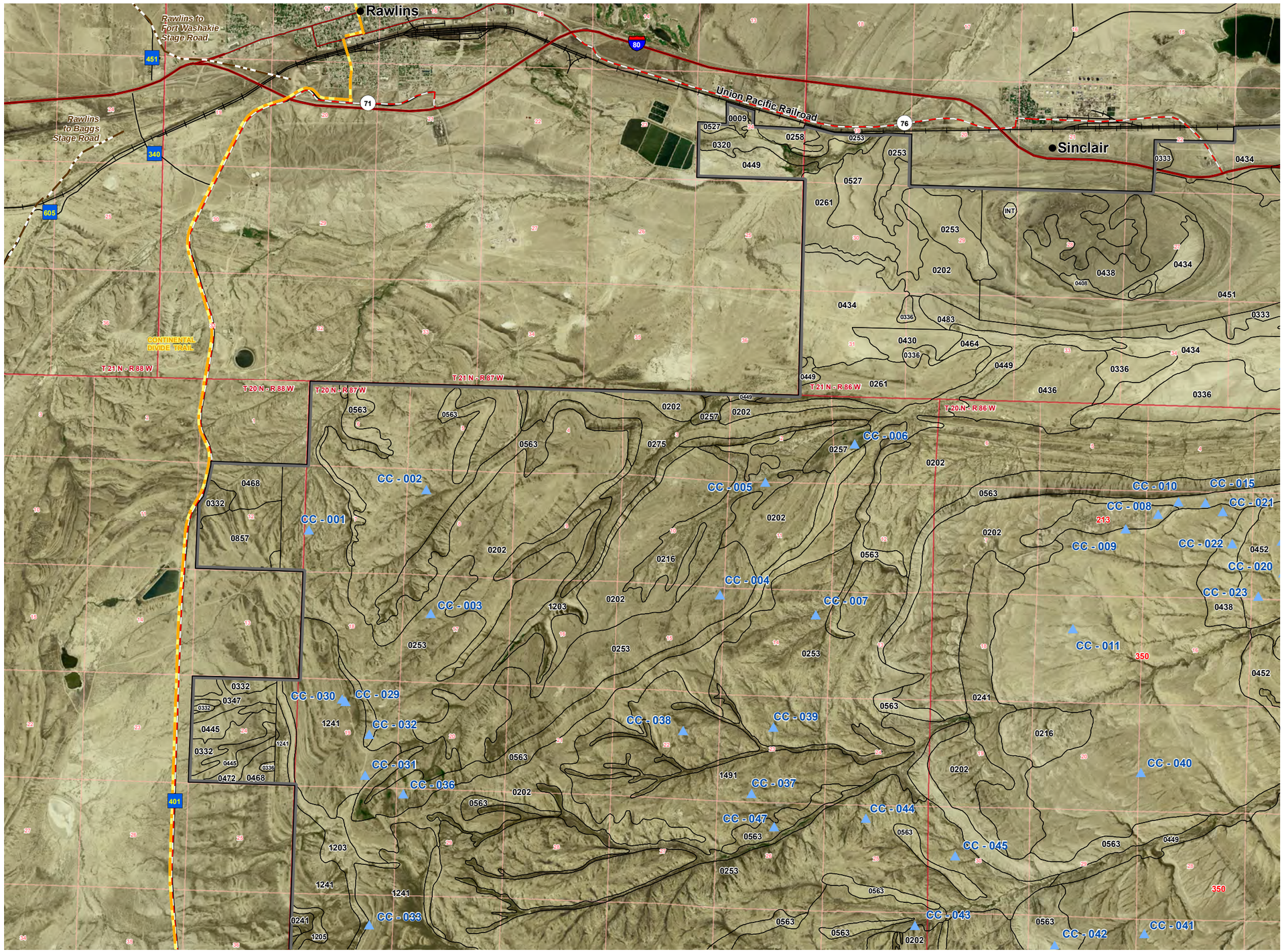

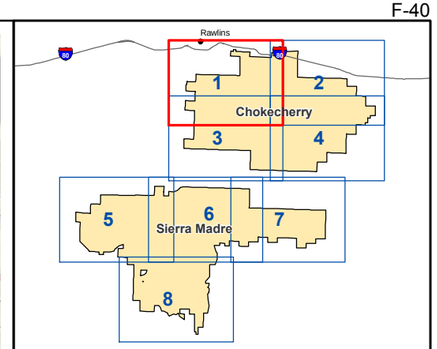

Legend

- City or Town
- Soil Constraint
- Historic Trail
- Continental Divide Trail
- Interstate Highway
- U.S. Highway
- State Highway
- County Road
- Railroad
- Abandonded Railroad
- Application Area
- Soil Map Unit (BLM)
- Soil Map Unit (NRCS)
- Township
- Section

0 0.5 1 2 Miles

0 0.5 1 2 Kilometers

1:60,000

Chokecherry and Sierra Madre Wind Energy Project

Figure 1

Chokecherry and Sierra Madre Soil Survey

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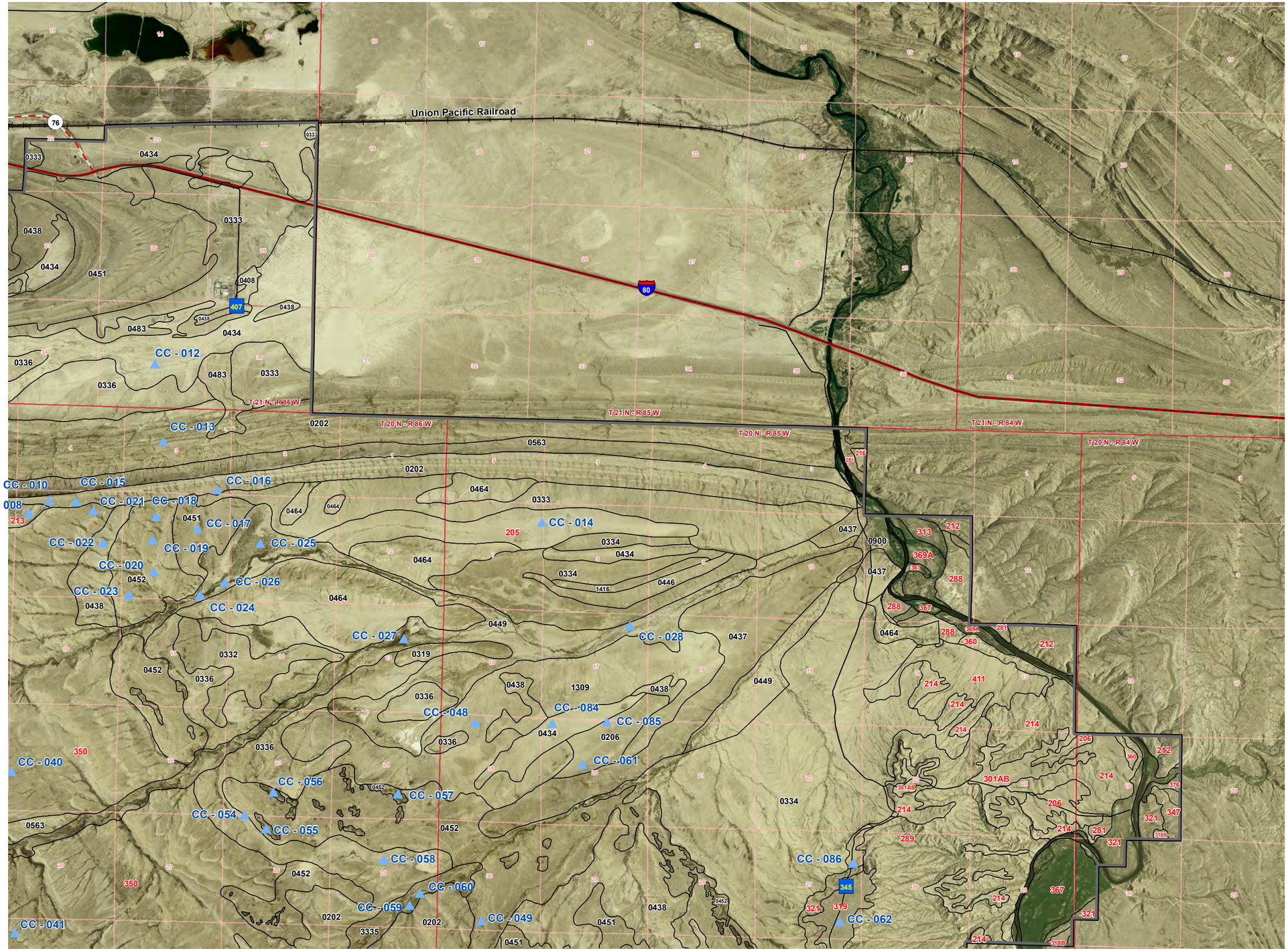

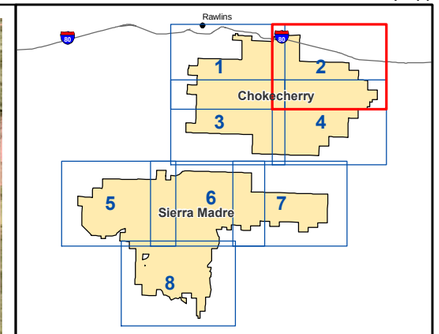

Legend

- City or Town
- Soil Constraint
- Historic Trail
- Continental Divide Trail
- Interstate Highway
- U.S. Highway
- State Highway
- County Road
- Railroad
- Abandonded Railroad
- Application Area
- Soil Map Unit (BLM)
- Soil Map Unit (NRCS)
- Township
- Section

0 0.5 1 2 Miles

0 0.5 1 2 Kilometers

1:60,000

Chokecherry and Sierra Madre Wind Energy Project

Figure 2

Chokecherry and Sierra Madre Soil Survey

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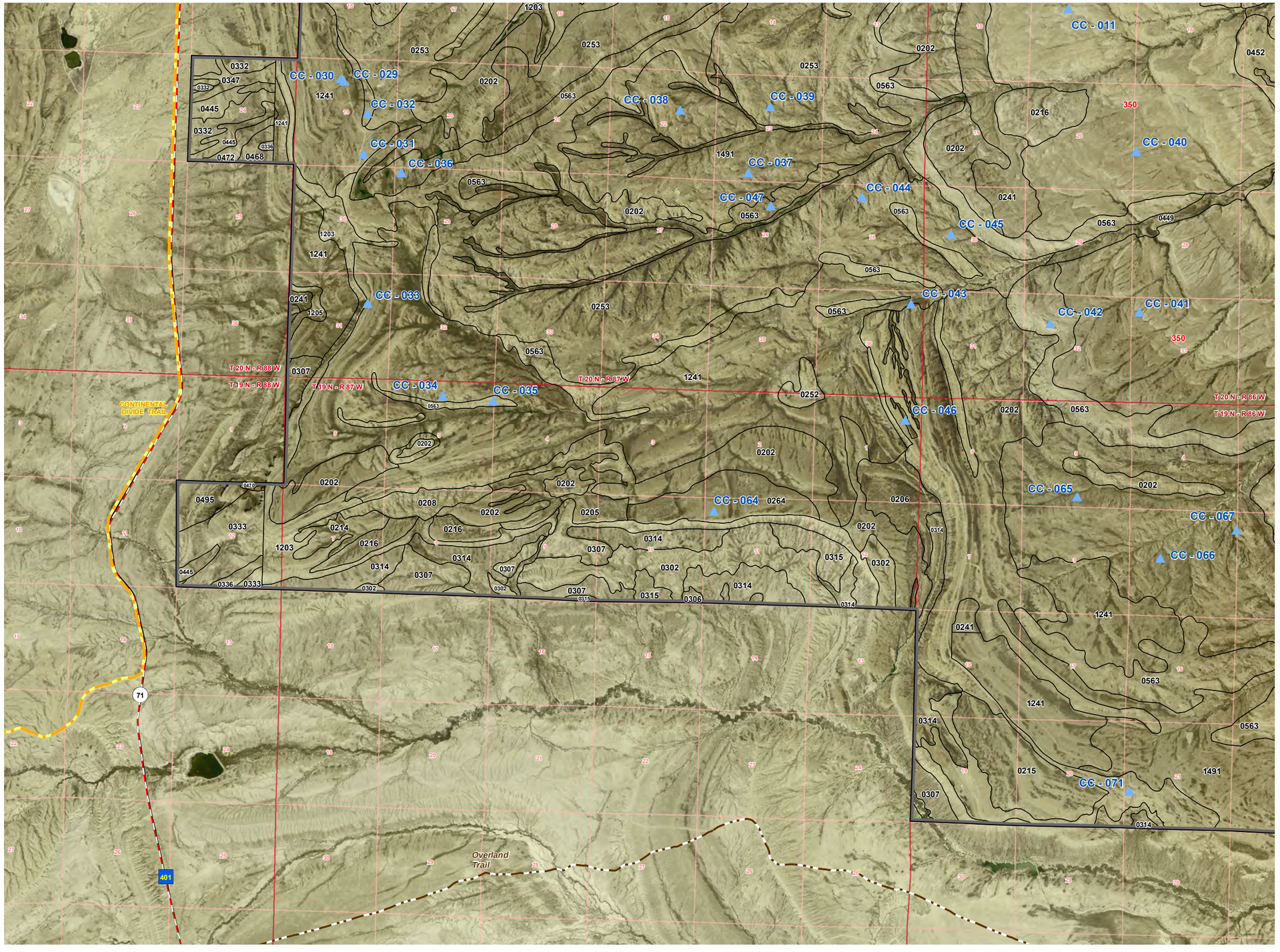

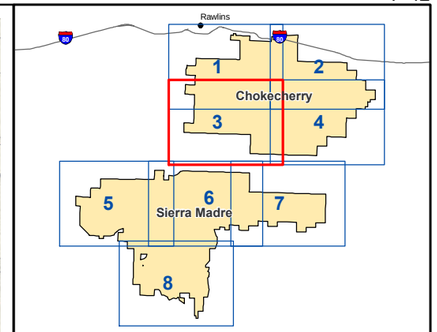

Legend

- City or Town
- Soil Constraint
- Historic Trail
- Continental Divide Trail
- Interstate Highway
- U.S. Highway
- State Highway
- County Road
- Railroad
- Abandonded Railroad
- Application Area
- Soil Map Unit (BLM)
- Soil Map Unit (NRCS)
- Township
- Section

0 0.5 1 2 Miles

0 0.5 1 2 Kilometers

1:60,000

Chokecherry and Sierra Madre Wind Energy Project

Figure 3

Chokecherry and Sierra Madre Soil Survey

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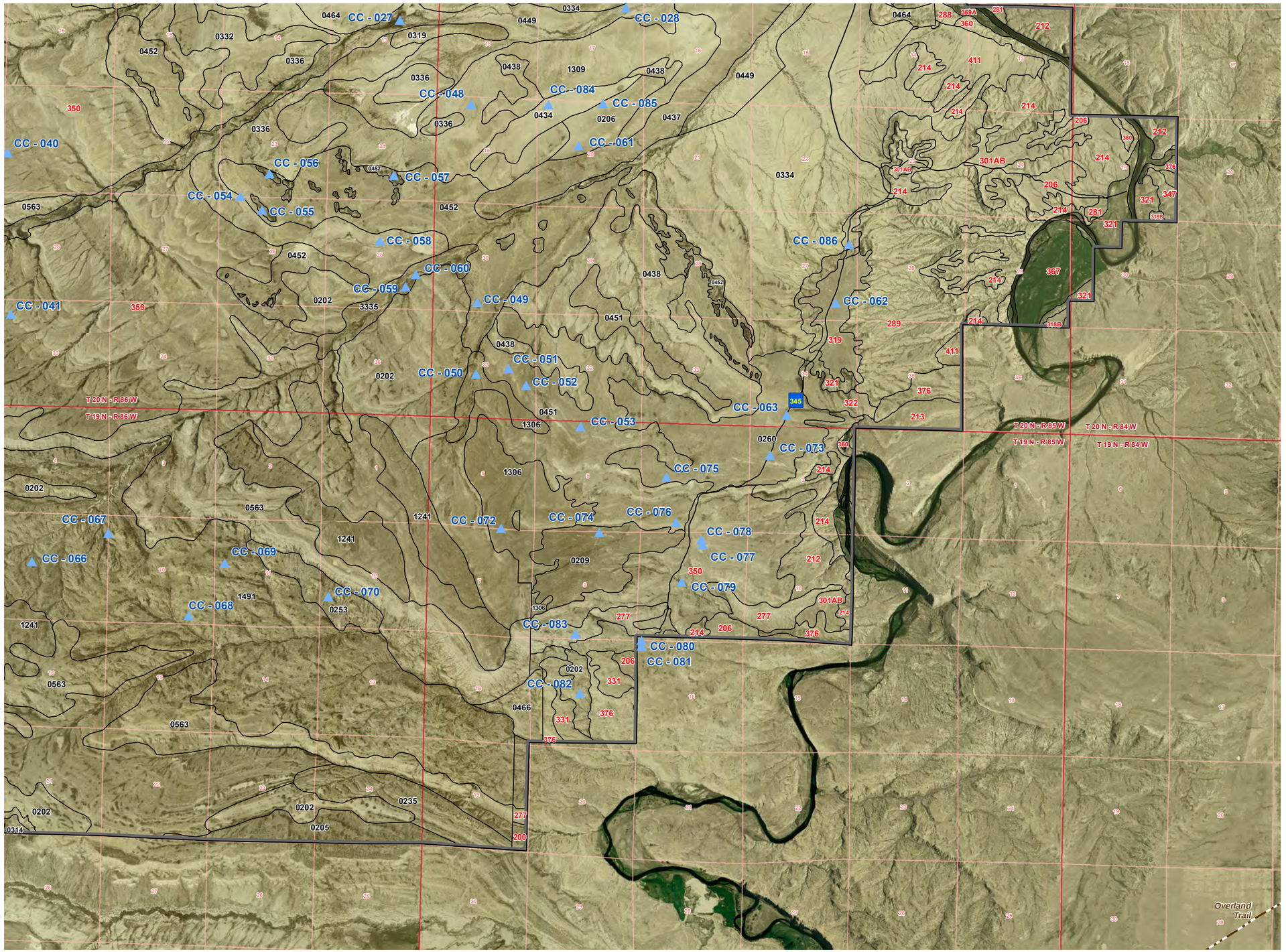

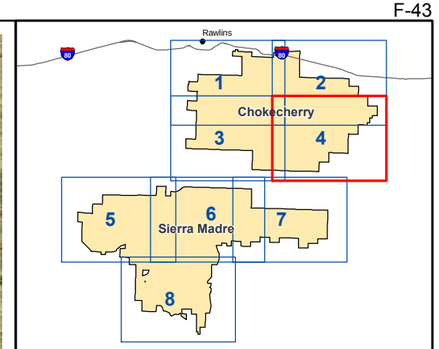

Legend

- City or Town
- Soil Constraint
- Historic Trail
- Continental Divide Trail
- Interstate Highway
- U.S. Highway
- State Highway
- County Road
- Railroad
- Abandonded Railroad
- Application Area
- 0999 Soil Map Unit (BLM)
- 0999 Soil Map Unit (NRCS)
- Township
- Section

0 0.5 1 2 Miles

0 0.5 1 2 Kilometers

1:60,000

N

Chokecherry and Sierra Madre Wind Energy Project

Figure 4

Chokecherry and Sierra Madre Soil Survey

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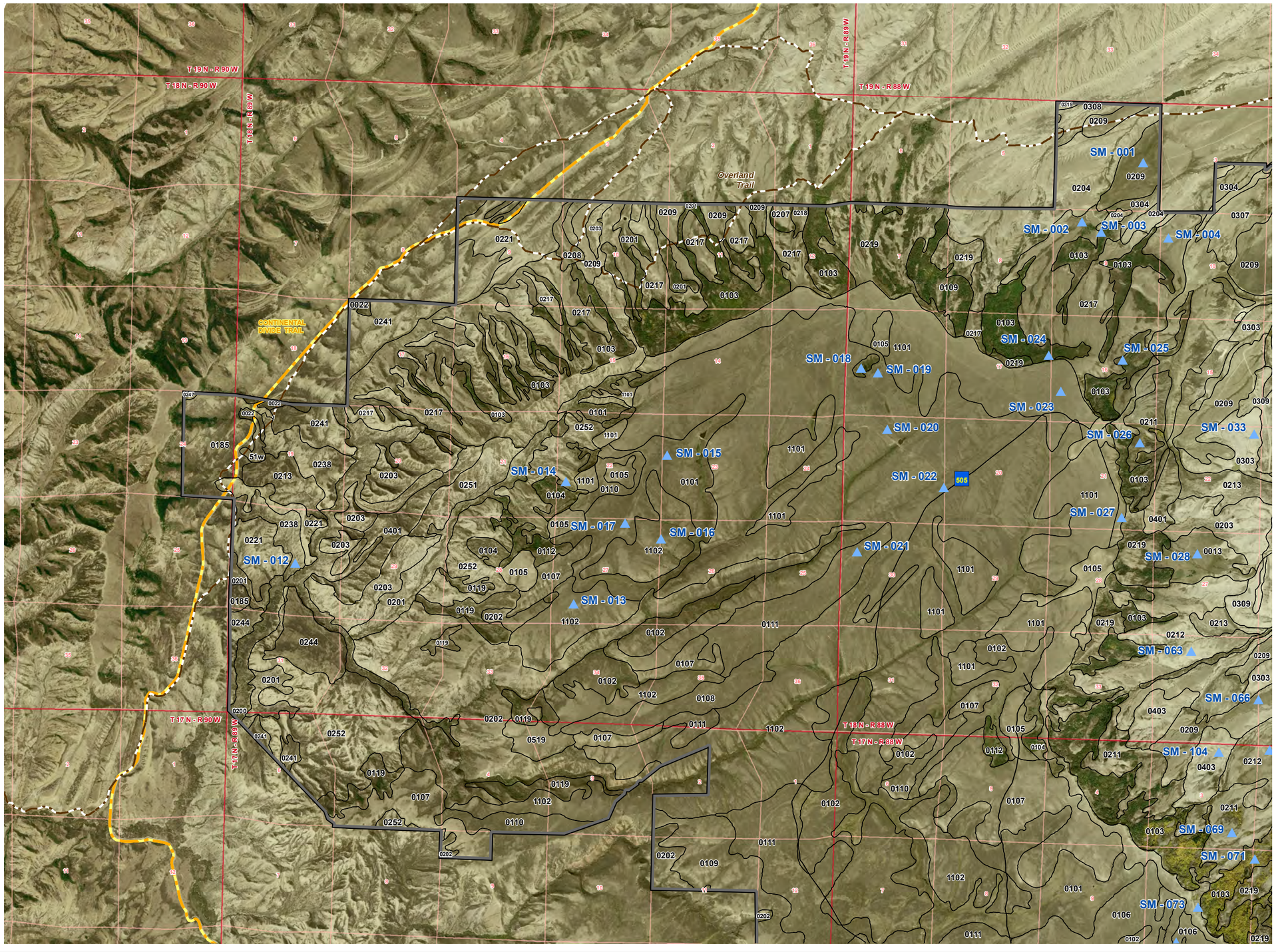

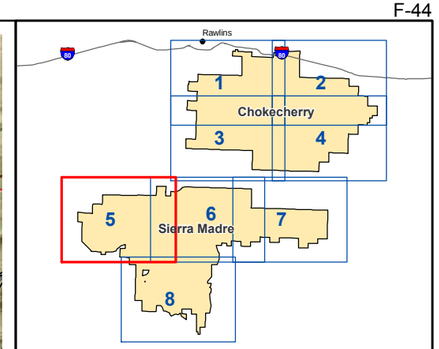

Legend

- City or Town
- Soil Constraint
- Historic Trail
- Continental Divide Trail
- Interstate Highway
- U.S. Highway
- State Highway
- County Road
- Railroad
- Abandonded Railroad
- Application Area
- 0999 Soil Map Unit (BLM)
- 0999 Soil Map Unit (NRCS)
- Township
- Section

0 0.5 1 2 Miles
0 0.5 1 2 Kilometers
1:60,000

Chokecherry and Sierra Madre Wind Energy Project

Figure 5

Chokecherry and Sierra Madre Soil Survey

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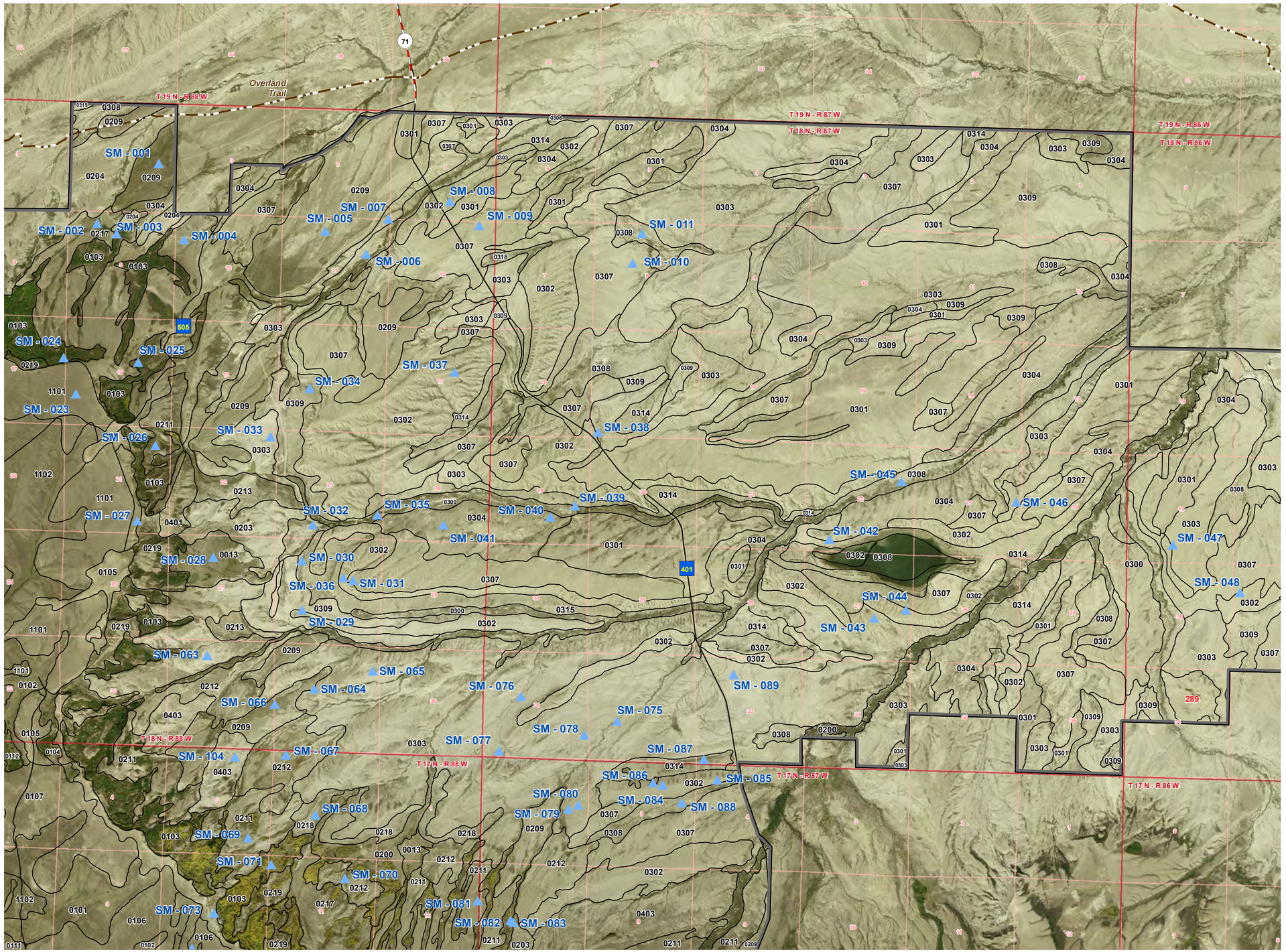

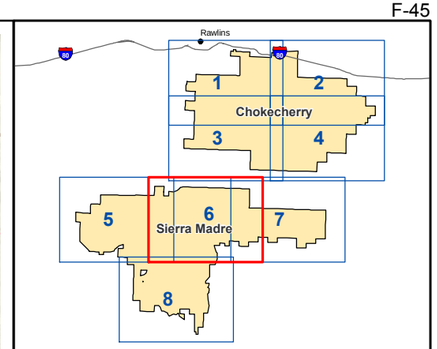

Legend

- City or Town
- Soil Constraint
- Historic Trail
- Continental Divide Trail
- Interstate Highway
- U.S. Highway
- State Highway
- County Road
- Railroad
- Abandonded Railroad
- Application Area
- Soil Map Unit (BLM)
- Soil Map Unit (NRCS)
- Township
- Section

0 0.5 1 2 Miles
0 0.5 1 2 Kilometers
1:60,000

Chokecherry and Sierra Madre Wind Energy Project

Figure 6

Chokecherry and Sierra Madre Soil Survey

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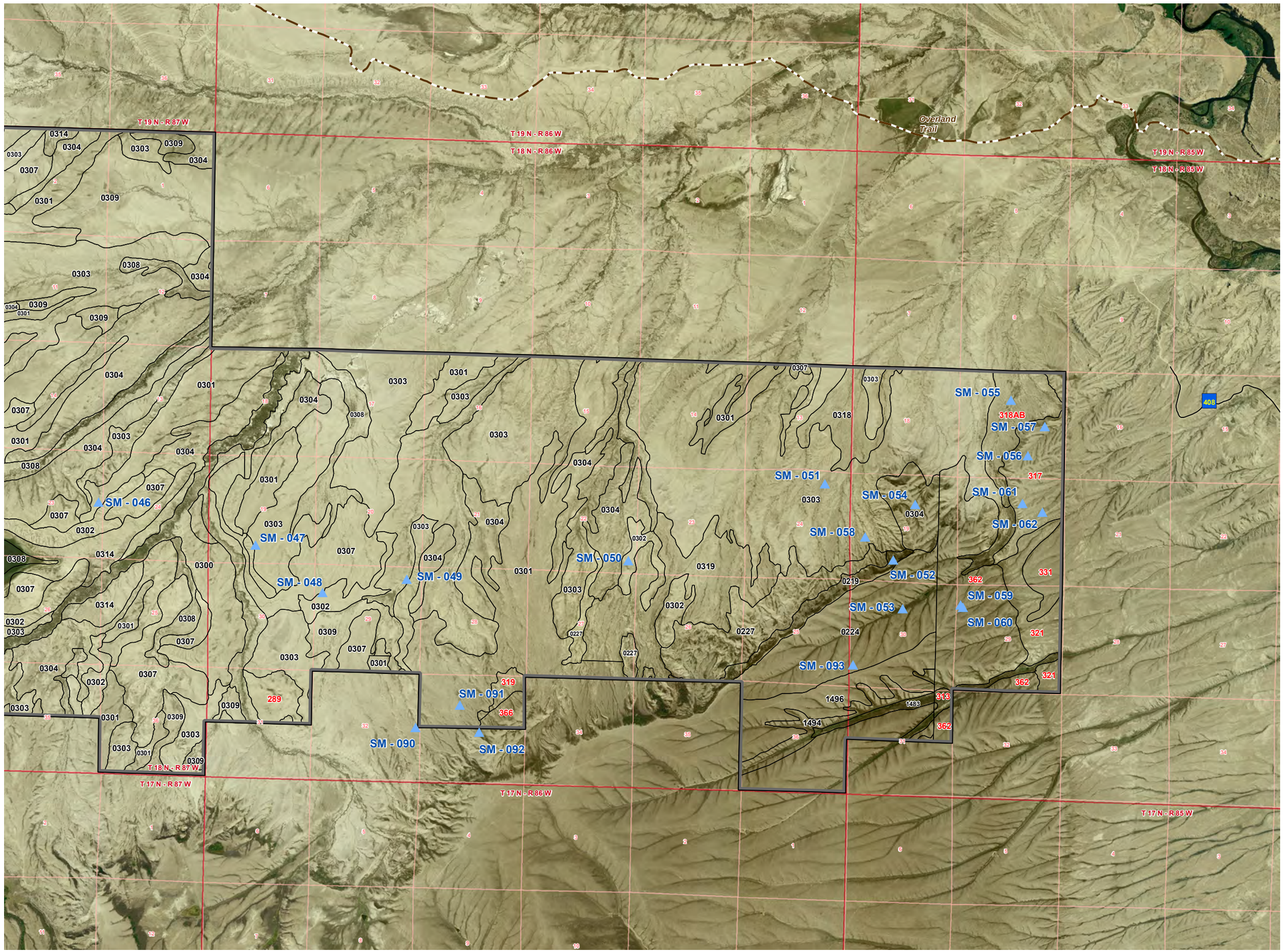
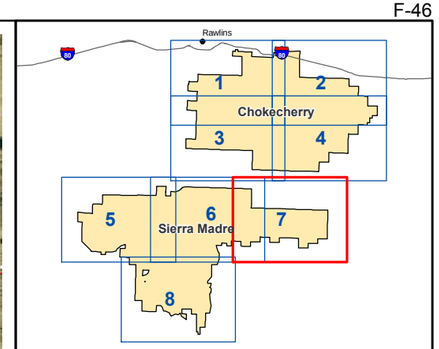




Legend

- City or Town
- Soil Constraint
- Historic Trail
- Continental Divide Trail
- Interstate Highway
- U.S. Highway
- State Highway
- County Road
- Railroad
- Abandonded Railroad
- Application Area
- Soil Map Unit (BLM)
- Soil Map Unit (NRCS)
- Township
- Section

0 0.5 1 2 Miles

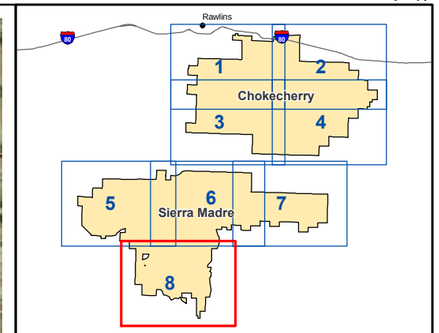
0 0.5 1 2 Kilometers

1:60,000

Chokecherry and Sierra Madre Wind Energy Project

Figure 7

Chokecherry and Sierra Madre Soil Survey



Legend

- City or Town
- Soil Constraint
- Historic Trail
- Continental Divide Trail
- Interstate Highway
- U.S. Highway
- State Highway
- County Road
- Railroad
- Abandonded Railroad
- Application Area
- Soil Map Unit (BLM)
- Soil Map Unit (NRCS)
- Township
- Section

0 0.5 1 2 Miles

0 0.5 1 2 Kilometers

1:60,000

Chokecherry and Sierra Madre Wind Energy Project

Figure 8

Chokecherry and Sierra Madre Soil Survey

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