

TABLE OF CONTENTS

2035 Plumas County General Plan Update Draft EIR

	<u>Page</u>
1. Introduction	1-1
1.1 Purpose and Use of the EIR	1-1
1.2 Type of EIR	1-2
1.3 EIR Process	1-4
1.4 EIR Organization	1-9
1.5 Terminology Used in the EIR	1-10
1.6 EIR Preparation	1-11
2. Executive Summary	2-1
2.1 Introduction	2-1
2.2 Project Overview	2-1
2.3 Areas of Controversy and Issues to be Resolved	2-4
2.4 Summary of Alternatives	2-6
2.5 Summary of Environmental Impacts and Mitigation Measures	2-8
3. Project Description	3-1
3.1 Introduction	3-1
3.2 Overview	3-1
3.3 Project Description	3-5
3.4 Regulatory Requirements and Approvals	3-32
4. Environmental Analysis	4-1
4.0 Environmental Analysis	4-1
4.1 Land Use and Aesthetics	4.1-1
4.2 Traffic and Circulation	4.2-1
4.3 Air Quality	4.3-1
4.4 Energy and Climate Change	4.4-1
4.5 Noise	4.5-1
4.6 Hydrology, Water Quality, and Drainage	4.6-1
4.7 Geology, Soils, Seismicity, and Mineral Resources	4.7-1
4.8 Hazardous Materials and Public Safety	4.8-1
4.9 Public Services, Recreation Resources, and Utilities	4.9-1
4.10 Agricultural and Timber Resources	4.10-1
4.11 Biological Resources	4.11-1
4.12 Cultural Resources	4.12-1
5. Alternatives	5-1
5.1 Introduction and General Requirements	5-1

	<u>Page</u>
5.2 Factors in Selection of Alternatives	5-1
5.3 Alternatives Eliminated from Consideration	5-3
5.4 Alternatives Selected for Consideration	5-3
5.5 Environmental Impacts of the Alternatives	5-5
6. Additional Statutory Considerations	6-1
6.1 Introduction	6-1
6.2 Growth Inducing Effects of the Proposed Project	6-2
6.3 Cumulative Impacts	6-2
6.4 Significant Unavoidable Adverse Impacts	6-21
6.5 Significant Irreversible Environmental Changes	6-23
7. Report Preparation	7-1
7.1 Introduction	7-1
7.2 Report Authors	7-1
8. References	8-1
Appendices	
A. Notice of Preparation and Scoping Comments	
B. Countywide Growth Assumptions 2035	
C. Traffic Technical Appendix	
D. Air Quality Modeling	
E. Greenhouse Gas Inventory	
F. Native American Heritage Consultation	
List of Figures	
2-1 Regional Location	2-3
3-1 Regional Location	3-3
3-2 Almanor General Plan Designations and Planning Areas	3-9
3-3 American Valley General Plan Designations and Planning Areas	3-10
3-4 American and Indian Valley General Plan Designations and Planning Areas	3-11
3-5 Indian Valley General Plan Designations and Planning Areas	3-12
3-6 Mohawk General Plan Designations and Planning Areas	3-13
3-7 Mohawk Valley General Plan Designations and Planning Areas	3-14
3-8 Sierra Valley General Plan Designations and Planning Areas	3-15
4.2-1 Circulation Diagram Overview	4.2-5
4.2-2 Circulation Diagram-Quincy	4.2-6
4.2-3 Circulation Diagram-Chester	4.2-7
4.2-4 Circulation Diagram-Greenville	4.2-8
4.2-5 Circulation Diagram-La Porte	4.2-9
4.2-6 Circulation Diagram-Portola	4.2-10
4.5-1 Decibel Scale and Common Noise Sources	4.5-3
4.5-2 Point Source Spreading with Distance	4.5-5
4.5-3 Line Source Spreading with Distance	4.5-6
4.5-4 Wind Effects on Noise Levels	4.5-7
4.5-5 Effects of Temperature Gradients on Noise	4.5-8
4.5-6 Typical Vibration Levels	4.5-10
4.5-7 Land Use Compatibility for Community Noise Environment	4.5-15

	<u>Page</u>
List of Figures (continued)	
4.5-8 Primary Mobile Noise Sources	4.5-19
4.5-9 Quincy (Gansner Field) and Beckwourth (Nervino Airport) Noise Contours	4.5-22
4.5-10 Chester (Rogers Field) Noise Contours	4.5-23
4.6-1 Hydrologic Features	4.6-6
4.6-2 Flood Zones, Dams, and Potential Inundation Areas	4.6-12
4.7-1 Seismic and Geologic Hazards	4.7-9
4.8-1 Fire Districts within Plumas County	4.8-9
4.8-2 Airport Noise and Safety	4.8-10
4.11-1 Habitat Types in Plumas County	4.11-7
4.11-2 Important Species Habitat Locations	4.11-9
List of Tables	
1-1 Status of 2035 Plumas County General Plan Update EIR	1-4
1-2 Summary of Comment Letters Received During the NOP Scoping Period	1-5
2-1 Summary of Impacts and Mitigation Measures	2-9
3-1 Land Use Designations	3-6
3-2 Growth (Planning) Areas Identified Under the Proposed Project	3-18
3-3 2010 Population Estimates for Each Geographic Area	3-19
3-4 Historic Population and Housing Trends for Plumas County – 1990 to 2010	3-25
3-5 2035 Plumas County General Plan Update Land Use Acreages	3-26
3-6 Summary of Acreage Within Each Planning Area by General Plan Land Use Designation	3-27
3-7 Existing Development Capacity by Geographic Area	3-27
3-8 Overall Population and Housing Unit Projections for Plumas County – 2010 to 2035	3-28
3-9 Allocation of Future Plumas County Dwelling Units and Population Growth by Geographic and Planning Area – 2012 to 2035	3-29
3-10 General Plan Development Potential	3-32
4-1 Organization of Environmental Analysis	4-2
4.1-1 Summary of Land and Aesthetic Impacts	4.1-1
4.1-2 Mitigating Policies	4.1-12
4.1-3 Mitigating Policies	4.1-14
4.1-4 Mitigating Policies	4.1-16
4.2-1 Summary of Traffic and Circulation Impacts	4.2-1
4.2-2 Roadway Segment LOS – Existing Conditions	4.2-13
4.2-3 Roadway Segment LOS – Existing + Proposed Project Conditions	4.2-16
4.2-4 Mitigating Policies	4.2-18
4.2-5 Mitigating Policies	4.2-21
4.2-6 Roadway Segment LOS – Cumulative + Proposed Project Conditions	4.2-23
4.3-1 Summary of Air Quality Impacts	4.3-1
4.3-2 State and National Criteria Air Pollutant Standards, Effects, and Sources	4.3-7
4.3-3 Air Quality Data Summary (2009-2011) for Plumas County	4.3-10
4.3-4 Mitigating Policies and Implementation Measures	4.3-12
4.3-5 2035 Plumas County General Plan Operational Emissions	4.3-13
4.3-6 Mitigating Policies	4.3-14
4.3-7 Mitigating Policies	4.3-18

	<u>Page</u>
List of Tables (continued)	
4.4-1 Summary of Energy and Climate Change Impacts	4.4-1
4.4-2 Recommended Actions from ARB Climate Change Scoping Plan	4.4-6
4.4-3 County of Plumas Greenhouse Gas Emissions by Sector in 2005	4.4-13
4.4-4 2035 Plumas County General Plan Operational GHG Emissions	4.4-17
4.4-5 Mitigating Policies	4.4-18
4.4-6 Mitigating Policies	4.4-21
4.5-1 Summary of Noise Impacts	4.5-1
4.5-2 Approximate Relationship Between Increases in Environmental Noise Level and Human Perception	4.5-4
4.5-3 Summary of Noise Levels Identified as Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety	4.5-12
4.5-4 FTA Impact Criteria for Noise-Sensitive Uses	4.5-12
4.5-5 Groundborne Vibration Impact Criteria for General Assessment	4.5-13
4.5-6 Sleep Disturbance Frequency as a Function of Aircraft Single-Event Noise Exposure Levels (SEL)	4.5-14
4.5-7 Prominent Noise Sources within the Planning Areas of Plumas County	4.5-17
4.5-8 Existing Traffic Noise Level Estimates	4.5-20
4.5-9 Existing Railroad Noise Contours	4.5-21
4.5-10 Typical Construction Equipment Maximum Noise Levels	4.5-24
4.5-11 Mitigating Policies and Implementation Measures	4.5-26
4.5-12 Mitigating Policies and Implementation Measures	4.5-31
4.6-1 Summary of Hydrology, Water Quality, and Drainage Impacts	4.6-1
4.6-2 Upper Feather River Watershed Major River Drainages	4.6-7
4.6-3 Clean Water Act Section 303(d) Listings for the Upper Feather River Watershed	4.6-8
4.6-4 Summary of Groundwater Basin Characteristics within Plumas County	4.6-9
4.6-5 Water Service Purveyors and Water Supply	4.6-10
4.6-6 Dams within Plumas County	4.6-14
4.6-7 Mitigating Policies and Implementation Programs	4.6-18
4.6-8 Mitigating Policies and Implementation Programs	4.6-20
4.6-9 Mitigating Policies and Implementation Programs	4.6-21
4.6-10 Plumas County Estimated New Water Demand from Urban Uses Under the Proposed Project (2035)	4.6-23
4.6-11 Mitigating Policies and Implementation Programs	4.6-24
4.6-12 Mitigating Policies and Implementation Programs	4.6-26
4.6-13 Mitigating Policies	4.6-27
4.6-14 Mitigating Policies and Implementation Programs	4.6-28
4.7-1 Summary of Geology, Soils, Seismicity, and Mineral Resources Impacts	4.7-1
4.7-2 Major Historic Earthquakes in the Plumas County Area Greater than Magnitude 5.0	4.7-8
4.7-3 Earthquake Magnitude Scales	4.7-10
4.7-4 Soil Erosion Potential in Plumas County	4.7-14
4.7-5 Mitigating Policies and Implementation Measures	4.7-17
4.7-6 Mitigating Policies and Implementation Programs	4.7-18
4.7-7 Mitigating Policies and Implementation Programs	4.7-20
4.7-8 Mitigating Policies and Implementation Programs	4.7-22
4.7-9 Mitigating Policies and Implementation Programs	4.7-23
4.7-10 Mitigating Policies and Implementation Programs	4.7-25
4.8-1 Summary of Public Safety Impacts	4.8-1

	<u>Page</u>
List of Tables (continued)	
4.8-2 Hazardous Materials Cleanup Sites in Plumas County	4.8-7
4.8-3 Mitigating Policies	4.8-13
4.8-4 Mitigating Policies	4.8-14
4.8-5 Mitigating Policies	4.8-16
4.8-6 Mitigating Policies	4.8-18
4.9-1 Summary of Public Service and Utility Impacts	4.9-1
4.9-2 Status of Plumas County Fire Protection Districts	4.9-5
4.9-3 Primary Service Providers in Plumas County	4.9-8
4.9-4 Summary of Existing and Projected Water Demand in Plumas County	4.9-11
4.9-5 Summary of Solid Waste Collection Facilities in Plumas County	4.9-12
4.9-6 Mitigating Policies and Implementation Measures	4.9-15
4.9-7 Mitigating Policies	4.9-23
4.9-8 Mitigating Policies	4.9-26
4.9-9 Mitigating Policies	4.9-28
4.9-10 Mitigating Policies	4.9-30
4.9-11 Mitigating Policies	4.9-33
4.10-1 Summary of Agricultural and Timber Resource Impacts	4.10-1
4.10-2 FMMP 2010 Sierra Valley Farmlands	4.10-5
4.10-3 Mitigating Policies	4.10-8
4.11-1 Summary of Biological Resource Impacts	4.11-2
4.11-2 Summary of Primary Habitats and Common Species in Plumas County	4.11-6
4.11-3 Special-Status Species with the Potential to Occur within Plumas County	4.11-10
4.11-4 Mitigating Policies	4.11-22
4.11-5 Mitigating Policies	4.11-28
4.12-1 Summary of Cultural Resource Impacts	4.12-1
4.12-2 Summary of Recorded Sites within Plumas County	4.12-8
4.12-3 Summary of California Historical Resources within Plumas County	4.12-8
4.12-4 Mitigating Policies	4.12-15
4.12-5 Mitigating Policies	4.12-16
5-1 Summary of Alternatives (Comparison of Impacts with 2035 General Plan Update Level of Significance)	5-6
5-2 Roadway Segment LOS – Existing + Existing General Plan Conditions	5-11
6-1 Regional Population Projections and Planning Efforts	6-3
6-2 Geographic Scope of Cumulative Impacts	6-4