

Alexander Avenue/Danes Intersection Improvement Project

Table of Contents

Chapter 1 Purpose of and Need for Action	1-1
1.1 Introduction	1-1
1.2 Purpose	1-1
1.3 Need.....	1-1
1.4 Background	1-3
1.5 Project Area Location.....	1-3
1.6 Scope of the Environmental Assessment	1-9
1.7 Related Laws/Legislation and Other Planning and Management Documents	1-9
1.8 Scoping and Public Involvement.....	1-12
1.9 Impact Topics.....	1-13
1.10 Impact Topics Considered but Dismissed from Further Consideration	1-13
Chapter 2 Alternatives	2-1
2.1 Introduction	2-1
2.2 Description of Alternatives	2-2
2.3 Agency Preferred Alternative	2-13
2.4 Mitigation and Monitoring	2-13
2.5 Permit Requirements	2-17
2.6 Alternatives Considered but Eliminated from Further Evaluation	2-17
2.7 Environmentally Preferred Alternative	2-18
2.8 Comparison of Alternatives	2-20
2.9 Comparison of Impacts	2-21
Chapter 3 Environmental Consequences.....	3-1
3.1 Introduction	3-1
3.2 General Methodology.....	3-1
3.3 Transportation	3-2
3.4 Visual Resources	3-10
3.5 Visitor Experience	3-18
3.6 Cultural Resources.....	3-22
3.7 Air Quality.....	3-32
3.8 Geologic Resources, Soils, and Seismic Hazards.....	3-40
3.9 Noise	3-48
3.10 Public Health and Safety.....	3-55
3.11 Special Status Species	3-60
3.12 Invasive Species	3-68
Chapter 4 Coordination and Consultation.....	4-1
4.1 Scoping and Public Involvement.....	4-1
4.2 Regulatory Compliance.....	4-1

Chapter 5 List of Preparers	5-1
5.1 National Park Service.....	5-1
5.2 Golden Gate Bridge Highway and Highway District	5-1
5.3 Federal Highway Administration - Central Federal Lands Highway Division.....	5-1
5.4 Partners and Consultants.....	5-1
Chapter 6 List of Recipients.....	6-1
6.1 Federal Agencies	6-1
6.2 Elected Officials	6-1
6.3 State Agencies	6-1
6.4 Regional and Local Agencies	6-2
6.5 Groups and Individuals	6-6

APPENDIX A: Initial Study and Proposed Mitigated Negative Declaration

LIST OF FIGURES

Figure 1-1	Existing Narrow Shoulder Width	1-2
Figure 1-2	Project Location	1-4
Figure 1-3	Photo Location Map	1-5
Figure 1-3A	Vantage Point 1: Alexander Avenue/Danes Drive Intersection from top of East Cut Slope.....	1-6
Figure 1-3B	Vantage Point 2: US 101 Ramps looking Northeast towards Alexander Avenue	1-7
Figure 1-3C	Vantage Point 3: Project Site looking North from Vista Point	1-8
Figure 2-1	Alternative B Cross Section	2-5
Figure 2-2	Alternative C Cross Section	2-8
Figure 2-3	Alternative D Cross Section	2-10
Figure 2-4	Proposed Roadway Configuration	2-11
Figure 3-1	Existing Shoulder Conditions on Alexander Avenue	3-6
Figure 3-2	Existing Alexander Avenue/Danes Drive Intersection Configuration.....	3-6
Figure 3-3	Views of the Project Area.....	3-12
Figure 3-4	East Rock Cut after Implementation of Alternative B.....	3-15
Figure 3-5	East Rock Cut after Implementation of Alternative C and Alternative D.....	3-17
Figure 3-6	Mission Blue Butterfly Habitat Survey Map.....	3-64

LIST OF TABLES

Table 2-1	Mitigation Measures	2-14
Table 2-2	Comparison of Alternatives	2-20
Table 2-3	Comparison of Impacts	2-21
Table 3-1	Air Pollutant Emissions from Alternative B Construction Activities (lbs/day)	3-37
Table 3-2	Air Pollutant Emissions from Alternative C Activities (lbs/day)	3-38
Table 3-3	Air Pollutant Emissions from Alternative D Activities (lbs/day)	3-39
Table 3-4	Summary of Typical Construction Equipment Noise Levels	3-51
Table 3-5	Typical Outdoor Construction Noise Levels.....	3-53