

2. CITY OF COTATI

2.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact

Katie Duran, Administrative Analyst
201 West Sierra Avenue
Cotati, CA 94931
Telephone: 707-665-3624
e-mail Address: kduran@cotaticity.org

Alternate Point of Contact

Damien O’Bid, City Manager
201 West Sierra Avenue
Cotati, CA 94931
Telephone: 707-665-3621
e-mail Address: dobid@cotaticity.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 2-1.

Table 2-1. Local Mitigation Planning Team Members

Name	Title
Katie Duran	Administrative Analyst
Damien O’Bid	City Manager
Noah Housh	Community Development Director
Craig Scott	Public Works Director/City Engineer
Angela Courter	Administrative Services Director
Michael Parish	Chief of Police

2.2 JURISDICTION PROFILE

2.2.1 Location and Features

The City of Cotati is an incorporated city in Sonoma County, California, U.S., located about 45 mi (70 km) north of San Francisco in the U.S. 101 corridor between the cities of Rohnert Park and Petaluma.

The city has a total area of 1.89 sq mi (4.9 km²), 0.53% of which is water.

The city is about 17 mi (27 km) from the Pacific Ocean. It lies entirely in the drainage basin of the Laguna de Santa Rosa (river). The Petaluma River watershed begins just south of town. To the west is the Stemple Creek watershed. The sources of all three watercourses lie in the hilly area between Stony Point Road and U.S. 101, just west of town.

A gap in the coastal ridges near Petaluma often allows coastal fog to reach Cotati in the summer, giving it a marine climate that is noticeably cooler and less sunny than the "coastal" climates of nearby Santa Rosa and Sebastopol. Cotati averages fewer than 800 hours per growing season in the 70–90°F range.

2.2.2 History

The City of Cotati was incorporated July 2, 1963, less than a year after the incorporation of the lands north of town to form Rohnert Park; voters approved (by a 284 to 41 margin) incorporation of Cotati as a separate city.

2.2.3 Governing Body Format

The City of Cotati is governed by a five-member city council. The City consists of six departments: Administrative Services, Community Development, Public Works/Engineering, Police, and the City Manager's Office. The City Council assumes responsibility for the adoption of this plan; the City Manager will oversee its implementation.

2.3 CURRENT TRENDS

2.3.1 Population

According to California Department of Finance, the 2021 estimate for City of Cotati was 7429, a drop of 1 percent from the previous year.

2.3.2 Development

Table 2-2 summarizes development trends in the performance period since the preparation of the previous hazard mitigation plan, as well as expected future development trends.

2.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The “Analysis of Mitigation Actions” table in this annex identifies these as community capacity building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of legal and regulatory capabilities is presented in Table 2-3.
- Development and permitting capabilities are presented in Table 2-4.
- An assessment of fiscal capabilities is presented in Table 2-5.
- An assessment of administrative and technical capabilities is presented in Table 2-6.
- An assessment of education and outreach capabilities is presented in Table 2-7.
- Information on National Flood Insurance Program (NFIP) compliance is presented in Table 2-8.
- Classifications under various community mitigation programs are presented in Table 2-9.
- The community’s adaptive capacity for the impacts of climate change is presented in Table 2-10.

Table 2-2. Recent and Expected Future Development Trends

Criterion	Response																														
Has your jurisdiction annexed any land since the preparation of the previous hazard mitigation plan? <i>If yes, give the estimated area annexed and estimated number of parcels or structures.</i>	Not Applicable This is Cotati's first hazard mitigation plan																														
Is your jurisdiction expected to annex any areas during the performance period of this plan? <i>If yes, describe land areas and dominant uses. If yes, who currently has permitting authority over these areas?</i>	Yes Commercial/Industrial County of Sonoma																														
Are any areas targeted for development or major redevelopment in the next five years? <i>If yes, briefly describe, including whether any of the areas are in known hazard risk areas</i>	Yes The Highway 116 Corridor, Downtown Specific Plan (DSP) Area, and Cotati Station Area Specific Plan Area. Each of these are designated ABAG Priority Development Areas and/or Priority Production Areas. The DSP has known localized areas of flood hazard. No other areas have known hazard risks specific to those areas.																														
How many permits for new construction were issued in your jurisdiction since the preparation of the previous hazard mitigation plan?	<table border="1"> <thead> <tr> <th></th> <th>2015</th> <th>2016</th> <th>2017</th> <th>2018</th> <th>2019</th> </tr> </thead> <tbody> <tr> <td>Single Family</td> <td>2</td> <td>18</td> <td>36</td> <td>0</td> <td>3</td> </tr> <tr> <td>Multi-Family</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Other (commercial, mixed use, etc.)</td> <td>0</td> <td>2</td> <td>11</td> <td>2</td> <td>3</td> </tr> <tr> <td>Total</td> <td>2</td> <td>20</td> <td>47</td> <td>2</td> <td>6</td> </tr> </tbody> </table>		2015	2016	2017	2018	2019	Single Family	2	18	36	0	3	Multi-Family	0	0	0	0	0	Other (commercial, mixed use, etc.)	0	2	11	2	3	Total	2	20	47	2	6
	2015	2016	2017	2018	2019																										
Single Family	2	18	36	0	3																										
Multi-Family	0	0	0	0	0																										
Other (commercial, mixed use, etc.)	0	2	11	2	3																										
Total	2	20	47	2	6																										
Provide the number of new-construction permits for each hazard area or provide a qualitative description of where development has occurred.	<ul style="list-style-type: none"> • Special Flood Hazard Areas: Unknown, but limited numbers of individual properties • Landslide: 0 • High Liquefaction Areas: Unknown, but likely significant portion of community • Tsunami Inundation Area: 0 • Wildfire Risk Areas: not available at this time 																														
Describe the level of buildout in the jurisdiction, based on your jurisdiction's buildable lands inventory. If no such inventory exists, provide a qualitative description.	A majority of the existing parcels within the City of Cotati have some level of development on them. The exception to this, is a few larger commercial and residential parcels on the west side of the City and some larger residential and agricultural properties toward the south end of the City. However, many of these previously developed properties are significantly under-developed based on their current land use designations, or the existing development is nearing the end of its functional life and is in need of significant investment to update the structures or re-develop the parcels. The City of Cotati General Plan does not include a buildable lands inventory.																														

Table 2-3. Planning and Regulatory Capability

	Local Authority	Other Jurisdiction Authority	State Mandated	Integration Opportunity?
Codes, Ordinances, & Requirements				
Building Code <i>Comment: Cotati Municipal Code, Title 14, Chapter 14.04, Section 14.04.030 adopts the California Building Code; Ord. 887 §2(part), 2019: Ord. 864 § 2(part), 2016: Ord. 843 § 1(part), 2013: Ord. 829 § 1(part), 2011: Ord. 815 § 1(part), 2008</i>	Yes	No	Yes	No
Zoning Code <i>Comment: CMC, Title 17, Chapters 17.20 – 17.28; Ord. 766 § 2 Exh. A (part), 2004</i>	Yes	No	Yes	Yes
Subdivisions <i>Comment: CMC, Title 17, Chapter 17.70, Sections 010-120; Ord. 766 § 2 Exh. A (part), 2004</i>	Yes	No	Yes	Yes
Stormwater Management <i>Comment: CMC, Title 13, Chapter 13.68, Sections 010-230; Ord. 870 § 2(part), 2017: Ord. 795 § 1(part), 2007: Ord. 759 § 1(part), 2004</i>	Yes	No	No	Yes
Post-Disaster Recovery <i>Comment: Sonoma County</i>	No	Yes	No	Yes
Real Estate Disclosure <i>Comment: CA State Civil Code 1102 requires disclosure for all sales of real property. Enforcement is not under the authorities of the City of Cotati</i>	No	Yes	Yes	No
Growth Management <i>Comment: CMC, Title 17, Chapter 17.52, Sections 010-050; Ord. 766 § 2 Exh. A (part), 2004; growth management is also covered within the city's General Plan.</i>	Yes	No	Yes	Yes
Site Plan Review <i>Comment: CMC, Title 17, Chapter 17.42, Sections 010-210; Ord. 766 § 2 Exh. A (part), 2004</i>	Yes	No	No	No
Environmental Protection <i>Comment: CMC, Title 17, Chapters 17.54, Sections 010-080 (tree preservation and protection) & 17.56, Sections (wetland protection and restoration); Ord. 766 § 2 Exh. A (part), 2004 covers both chapters</i>	Yes	No	No	Yes
Flood Damage Prevention <i>Comment: CMC, Title 15, Chapter 15.04, section 040—methods of reducing flood losses; Ord. 819 § 2(part), 2008: Ord. 667 § 2(part), 1997</i>	Yes	No	No	Yes
Emergency Management <i>Comment: City Manager is the City's Emergency Manager</i>	Yes	No	Yes	Yes
Climate Change <i>Comment:</i>	No	No	No	No
Other <i>Comment: CMC, Title 2, Chapter 2.24 Emergency Organization and Functions, Sections 010-080—discusses the Cotati Disaster Council's roles and duties; 2.24.080 Emergency Plan—The Cotati Disaster Council shall be responsible for the development of the city emergency plan</i>	Yes	No	No	Yes
Planning Documents				
General Plan <i>Is the plan compliant with Assembly Bill 2140? Yes</i> <i>Comment: Cotati General Plan, Adopted 03/24/2015—safety element discusses seismic, geologic, and flooding hazards in addition to flood protection measures</i>	Yes	No	Yes	Yes
Capital Improvement Plan <i>How often is the plan updated? Every five years</i> <i>Comment: City of Cotati Capital Improvement Program FYs 2020/21 – 2024/25</i>	Yes	No	No	Yes
Disaster Debris Management Plan <i>Comment:</i>	No	No	No	No
Floodplain or Watershed Plan <i>Comment:</i>	No	No	No	Yes

	Local Authority	Other Jurisdiction Authority	State Mandated	Integration Opportunity?
Stormwater Plan <i>Comment: Phase II NPDES Storm Water Management Plan, March 2005</i>	Yes	No	No	Yes
Urban Water Management Plan <i>Comment: Sonoma County Water Agency 2015 Urban Water Management Plan—City of Cotati is referenced as having participated in the development of the plan</i>	No	Yes	No	No
Habitat Conservation Plan <i>Comment:</i>	No	No	No	No
Economic Development Plan <i>Comment: Economic Development Strategy and Implementation Program; also economic vitality chapter within the general plan</i>	In process	No	No	Yes
Shoreline Management Plan <i>Comment:</i>	No	No	No	No
Community Wildfire Protection Plan <i>Comment: Sonoma County Community Wildfire Protection Plan, 2018 (Update pending)</i>	Pending—Other	Yes	No	Yes
Forest Management Plan <i>Comment:</i>	No	No	No	No
Climate Action Plan <i>Comment: Sonoma County Regional Climate Action Plan, July 2016—City of Cotati website links to this plan, contents list actions taken within general plan and through code & ordinance adoption</i>	Yes	No	Yes	Yes
Emergency Operations Plan <i>Comment: City of Cotati Emergency Operations Plan—updated 2019</i>	Yes	No	No	Yes
Threat & Hazard Identification & Risk Assessment (THIRA) <i>Comment: Bay Area Urban Areas Security Initiative</i>	No	No	No	No
Post-Disaster Recovery Plan <i>Comment: Sonoma County Recovery & Resiliency Framework, December 2018</i>	No	Yes	No	No
Continuity of Operations Plan <i>Comment: Sonoma County has a COOP Plan</i>	No	Yes	No	Yes
Public Health Plan <i>Comment: Community Health & Wellness chapter in the general plan</i>	Yes	No	No	Yes
Other <i>Comment:</i>				

Table 2-4. Development and Permitting Capability

Criterion	Response
Does your jurisdiction issue development permits? <i>If no, who does? If yes, which department?</i>	Yes Community Development Department
Does your jurisdiction have the ability to track permits by hazard area?	Yes
Does your jurisdiction have a buildable lands inventory?	Yes

Table 2-5. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes—water & sewer
Incur Debt through General Obligation Bonds	No
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	No
State-Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	N/A

Table 2-6. Administrative and Technical Capability

Staff/Personnel Resource	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Community Development Department, Planning
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works and Engineering
Planners or engineers with an understanding of natural hazards	Yes	Community Development & City Engineer
Staff with training in benefit/cost analysis	Yes	Administrative Service Director
Surveyors	Yes	By contract only
Personnel skilled or trained in GIS applications	Yes	Community Development & City Engineer
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Damien O’Bid, City Manager
Grant writers	No	
Other	N/A	

Table 2-7. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes
Do you have personnel skilled or trained in website development?	Yes
Do you have hazard mitigation information available on your website? <i>If yes, briefly describe.</i>	Yes Ref: Sonoma County website
Do you use social media for hazard mitigation education and outreach? <i>If yes, briefly describe.</i>	Yes Facebook & Instagram
Do you have any citizen boards or commissions that address issues related to hazard mitigation? <i>If yes, briefly describe.</i>	Yes Planning Commission
Do you have any other programs already in place that could be used to communicate hazard-related information? <i>If yes, briefly describe.</i>	No
Do you have any established warning systems for hazard events? <i>If yes, briefly describe.</i>	Yes Nixle, SoCo Alert

Table 2-8. National Flood Insurance Program Compliance

Criterion	Response
What local department is responsible for floodplain management?	Public Works and Engineering
Who is your floodplain administrator? (department/position)	Public Works Director
Are any certified floodplain managers on staff in your jurisdiction?	Public Works Director
What is the date that your flood damage prevention ordinance was last amended?	2008
Does your floodplain management program meet or exceed minimum requirements? <i>If exceeds, in what ways?</i>	Meets
When was the most recent Community Assistance Visit or Community Assistance Contact?	2018
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <i>If so, state what they are.</i>	No
Are any RiskMAP projects currently underway in your jurisdiction? <i>If so, state what they are.</i>	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <i>If no, state why.</i>	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? <i>If so, what type of assistance/training is needed?</i>	Yes Updating regulations
Does your jurisdiction participate in the Community Rating System (CRS)? <i>If yes, is your jurisdiction interested in improving its CRS Classification?</i> <i>If no, is your jurisdiction interested in joining the CRS program?</i>	No Yes
How many flood insurance policies are in force in your jurisdiction? ^a <i>What is the insurance in force?</i> <i>What is the premium in force?</i>	73 \$22,711,000 \$58,393
How many total loss claims have been filed in your jurisdiction? ^a <i>How many claims are still open or were closed without payment?</i> <i>What were the total payments for losses?</i>	5 0 \$2,275

a. According to FEMA statistics as of December 2020

Table 2-9. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	Yes	0609716560	N/A
DUNS #	Yes	020016119	N/A
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	No	N/A	N/A
Public Protection	No	N/A	N/A
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A

Table 2-10. Adaptive Capacity for Climate Change

Criterion	Jurisdiction Rating ^a
Technical Capacity	
Jurisdiction-level understanding of potential climate change impacts <i>Comment:</i>	Medium
Jurisdiction-level monitoring of climate change impacts <i>Comment:</i>	Low
Technical resources to assess proposed strategies for feasibility and externalities <i>Comment:</i>	Low
Jurisdiction-level capacity for development of greenhouse gas emissions inventory <i>Comment:</i>	Medium
Capital planning and land use decisions informed by potential climate impacts <i>Comment:</i>	Low
Participation in regional groups addressing climate risks <i>Comment:</i>	High
Implementation Capacity	
Clear authority/mandate to consider climate change impacts during public decision-making processes <i>Comment:</i>	Medium
Identified strategies for greenhouse gas mitigation efforts <i>Comment:</i>	Medium
Identified strategies for adaptation to impacts <i>Comment:</i>	Medium
Champions for climate action in local government departments <i>Comment:</i>	Medium
Political support for implementing climate change adaptation strategies <i>Comment:</i>	High
Financial resources devoted to climate change adaptation <i>Comment:</i>	High
Local authority over sectors likely to be negative impacted <i>Comment:</i>	Unsure
Public Capacity	
Local residents knowledge of and understanding of climate risk <i>Comment:</i>	High
Local residents support of adaptation efforts <i>Comment:</i>	Medium

Criterion	Jurisdiction Rating ^a
Local residents' capacity to adapt to climate impacts <i>Comment:</i>	Medium
Local economy current capacity to adapt to climate impacts <i>Comment:</i>	Unsure
Local ecosystems capacity to adapt to climate impacts <i>Comment:</i>	Unsure

- a. High = Capacity exists and is in use; Medium = Capacity may exist, but is not used or could use some improvement;
Low = Capacity does not exist or could use substantial improvement; Unsure= Not enough information is known to assign a rating.

2.5 INTEGRATION REVIEW

For hazard mitigation planning, “integration” means that hazard mitigation information is used in other relevant planning mechanisms, such as general planning and capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

2.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- Sonoma County HMP
- Rohnert Park HMP
- Sonoma Water HMP
- City’s Capital Improvement Plan
- City’s General Plan

2.5.2 Opportunities for Future Integration

The capability assessment presented in this annex identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

- Rancho Adobe Fire Strategic Plan
- Laguna Waste Water HMP
- Sonoma County HMP
- Location tracking of building development in specific hazard areas

2.6 RISK ASSESSMENT

2.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 2-11 lists past occurrences of natural hazards for which specific damage was recorded in the City of Cotati. Other hazard events that broadly affected the entire planning area, including the City of Cotati, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

Table 2-11. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
Heavy Rains and Flooding	DR-183	December 24, 1964	Unknown
Severe Storms, Flooding	DR-253	January 26, 1969	Unknown
Severe Storms, Flood, Mudslides, High Tide	DR-651	December 19, 1981 – January 8, 1983	Unknown
Coastal Storms, Floods, Slides, Tornadoes	DR-677	January 21 – March 30, 1983	Unknown
Severe Storms, Flooding	DR-758	February 12 – March 10, 1986	Unknown
Freeze of '91	DR-894	December 1990 – February 1991	Unknown
Flood of '93		January 20 – 25, 1993	Unknown
Fishing Emergency		May – September 1994	Unknown
Flood of '95, Part 1		January 8 – 31, 1995	Unknown
Flood of '95, Part 2		March 7 – 15, 1995	Unknown
December Winter Storm		December 11 – 12, 1995	Unknown
February Winter Storm		February 4 – 5, 1996	Unknown
Cavedale Fire		July 31 – August 20, 1996	Unknown
Jenner Sandbarrier		July 31 – August 20, 1996	Unknown
Porter Creek Fire		October 27 – 28, 1996	Unknown
New Year's Flood		December 30, 1996 – January 4, 1997	Unknown
Superbowl Flood		January 25, 1997	Unknown
Flood of '98/Rio Nido Debris Flow		February 2, 1998 – January 4, 2000	Unknown
February Winter Storm		February 8 – 10, 1999	Unknown
December Winter Storms		December 17, 2002 – April 8, 2003	Unknown
Geysers Fire		September 3 – 8, 2004	Unknown
New Year's Floods		December 31, 2005 – January 3, 2006	Unknown
Late Spring Storms		March 29 – April 16, 2006	Unknown
SF Oil Spill		November 7, 2007	Unknown
H1N1 Influenza Pandemic		April – May 2009	Unknown
Great Tohoku Tsunami		March 11, 2011	Unknown
Holiday Decoration Flood		December 2, 2012	Unknown
Lopez Protests		October 29 and November 5, 2013	Unknown
Drought		2014 – 2016	Unknown
South Napa Earthquake		August 24, 2014	Unknown
December Winter Storm		December 11 – 12, 2014	Unknown
Valley Fire	FM-5112	September 12 – 25, 2015	Unknown
Severe Winter Storms, Flooding, and Mudslides	DR-4301	January 3 – 12, 2017	Unknown
Severe Winter Storms, Flooding, Mudslides	DR-4308	February 1 – 23, 2017	Unknown
LNU Complex Fires		October 2017	Unknown

Type of Event	FEMA Disaster #	Date	Damage Assessment
Wildfires	DR-4344	October 8 – 31, 2017	Unknown
PG&E Power Shutoff (PSPS)		October 2018	Unknown
Severe Winter Storms, Flooding, Landslides, and Mudslides	DR-4434	February 24 – March 1, 2019	Unknown
PG&E Power Shutoff (PSPS)		October 2019	Unknown
Kincade Fire	FM-5295	October 23 – November 7, 2019	Unknown
COVID-19 Pandemic	DR-4482	January 2020 – present	Unknown
Wildfires	DR-4558	August 14 – September 26, 2020	Unknown
Wildfires	DR-4569	September 4 – November 17, 2020	Unknown

2.6.2 Hazard Risk Ranking

Table 2-12 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property and the economy. Mitigation actions target hazards with high and medium rankings.

Table 2-12. Hazard Risk Ranking

Rank	Hazard	Risk Rating Score	Risk Category
1	Earthquake	36	High
2	Wildfire	18	High*
2	Severe Weather	30	Medium
3	Flood	18	Medium
3	Landslide	18	Medium
6	Dam Failure	12	Low
7	Drought	6	N/A
8	Sea Level Rise	0	Low
8	Tsunami	0	Low

* Due to recent Countywide fire history Changed by City of Cotati

2.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for the jurisdiction. Available jurisdiction-specific risk maps of the hazards are provided at the end of this annex.

Repetitive Loss Properties

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 0
- Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: N/A

Other Noted Vulnerabilities

The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

- None listed

Mitigation actions addressing these issues were prioritized for consideration in the action plan in this annex.

2.7 HAZARD MITIGATION ACTION PLAN

Table 2-13 lists the identified actions, which make up the hazard mitigation action plan for this jurisdiction. Table 2-14 identifies the priority for each action. Table 2-15 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 2-13. Hazard Mitigation Action Plan Matrix						
Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline ^a
Action COT-1 —Implement Water System Emergency Monitoring and Leak Detection (includes water quality monitoring and zone isolation)						
<i>Hazards Mitigated:</i> Earthquake, Severe Weather						
Existing	2, 3, 4, 6	City of Cotati		High	Water Enterprise; grant funding	short term
Action COT-2 —Collaborate with Sonoma Water on building an emergency interconnect and loop main (Cotati Tanks direct interconnect, looping main to Madrone Road)						
<i>Hazards Mitigated:</i> Earthquake, Severe Weather						
New & Existing	2, 3, 4, 6	City of Cotati	Sonoma Water	High	Water Enterprise; grant funding	Long term
Action COT-3 —Collaborate with the City of Rohnert Park to build a Cotati-Rohnert Park Water System Emergency Interconnect						
<i>Hazards Mitigated:</i> Earthquake						
New & Existing	2, 3, 4, 6	City of Cotati	City of Rohnert Park	Medium	Water Enterprise; grant funding	Long term
Action COT-4 —Collaborate with the City of Rohnert Park to build a Cotati-Rohnert Park Sewer system Emergency Interconnect						
<i>Hazards Mitigated:</i> Earthquake						
New & Existing	2, 3, 4, 6	City of Cotati	City of Rohnert Park	Medium	Sewer Enterprise; grant funding	Long term
Action COT-5 —Fund and build Well sites/Tank Intrusion Monitoring						
<i>Hazards Mitigated:</i> Earthquake						
New & Existing	3, 4, 6	City of Cotati		Low	Water Enterprise; grant funding	Short trm
Action COT-6 —Fund and build Well Site emergency power interconnects (adding generator hook ups to all well sites)						
<i>Hazards Mitigated:</i> Earthquake						
Existing	3, 4, 6	City of Cotati		Low	Water Enterprise; grant funding	short term
Action COT-7 —Fund a Redwood Drive and Myrtle Sewer lift station emergency back-up power source.						
<i>Hazards Mitigated:</i> Earthquake						
Existing	3, 4, 6	City of Cotati		Medium	Sewer Enterprise; grant funding	short term
Action COT-8 —Fund critical facilities Emergency Stationary Back-up Power System and back-up power project						
<i>Hazards Mitigated:</i> Earthquake, Severe Weather, Wildfire						
Existing	3, 4, 6	City of Cotati		High	Grant funding	long term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline ^a
Action COT-9 —Support ongoing hazard mitigation efforts in the county.						
<i>Hazards Mitigated:</i> Earthquake, Wildfire, Severe Weather, Flood, Landslide, Dam Failure, Drought, Sea Level Rise, Tsunami						
New & Existing	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	City of Cotati		Low	Staff time	Ongoing
Action COT-10 —Fund and implement Evacuation Coordination Project						
<i>Hazards Mitigated:</i> Earthquake, Wildfire						
New & Existing	3, 4, 5, 6	City of Cotati		Medium	Grant funding, General Fund	short term
Action COT-11 —Develop an Infrastructure Asset Management System for Inspection/Rapid Repair						
<i>Hazards Mitigated:</i> Earthquake						
New	1, 2, 3, 4, 6, 8, 11, 12	City of Cotati		Medium	Grant funding	Short term
Action COT-12 —Fund Emergency Water Storage and Supply Projects						
<i>Hazards Mitigated:</i> Wildfire, Earthquake						
New	2, 3, 4, 6, 12	City of Cotati	Rancho Adobe Fire Protection District	High	Water Enterprise, Grant funding	Long term
Action COT-13 —Fund Fire Flow Booster Pump System						
<i>Hazards Mitigated:</i> Wildfire, Earthquake						
New	2, 3, 4, 6, 12	City of Cotati	Rancho Adobe Fire Protection District	Medium	Grant funding, Water Enterprise	long term
Action COT-14 —Fund Water Main Fire Flow projects						
<i>Hazards Mitigated:</i> Wildfire						
New	2, 3, 4, 6, 7, 9	City of Cotati	Rancho Adobe Fire Protection District	High	Grant funding, Water Enterprise	long Term
Action COT-15 —Purchase a back-up power source for Traffic Signal Solar Red Flasher to assist with community movement in the event of power loss						
<i>Hazards Mitigated:</i> Wildfire, Severe Weather, Flood, Earthquake						
New & Existing	3, 4, 5, 6, 10	City of Cotati		Medium	Grant funding, General Fund	short term
Action COT-16 —Fund a Laguna de Santa Rosa/East Cotati Avenue Storm Drain Flood Improvement Project						
<i>Hazards Mitigated:</i> Flood, Severe Weather						
New & Existing	1, 3, 4, 6, 7, 8, 9, 10, 11, 12	City of Cotati		High	Grant funding	Long Term
Action COT-17 —Maintain participation in NFIP Program						
<i>Hazards Mitigated:</i> Flood, Severe Weather						
New & Existing	1, 3, 4, 6, 7, 8, 9, 10, 11, 12	City of Cotati		Low	Staff time	Short term
Action COT-18 —Ensure compliance, adoption and coordination between General Plan's Safety Element and HMP						
<i>Hazards Mitigated:</i> All hazards						
New & Existing	1, 3, 4, 6, 7, 8, 9, 10, 11, 12	City of Cotati		Low	Staff Time	short term

a. Short-term = Completion within 5 years; Long-term = Completion within 10 years; Ongoing= Continuing new or existing program with no completion date

See the introduction to this volume for list of acronyms used here.

Table 2-14. Mitigation Action Priority

Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Cost?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/ Budgets?	Implementation Priority ^a	Grant Pursuit Priority ^a
COT-1	4	High	High	Yes	Yes	No	High	High
COT-2	4	High	High	Yes	Yes	No	High	High
COT-3	4	High	Medium	Yes	Yes	No	Medium	Medium
COT-4	4	High	Medium	Yes	Yes	No	Medium	Medium
COT-5	3	High	Low	Yes	Yes	No	High	High
COT-6	3	High	Low	Yes	Yes	No	High	High
COT-7	3	High	Medium	Yes	Yes	No	Medium	Medium
COT-8	3	High	High	Yes	Yes	No	High	High
COT-9	12	High	Low	Yes	No	Yes	High	High
COT-10	4	High	Medium	Yes	Yes	No	Medium	Medium
COT-11	8	High	Medium	Yes	Yes	No	High	High
COT-12	5	High	High	Yes	Yes	No	High	High
COT-13	5	High	Medium	Yes	Yes	No	High	High
COT-14	6	High	High	Yes	Yes	No	Medium	Medium
COT-15	5	High	Medium	Yes	Yes	No	High	High
COT-16	10	High	High	Yes	Yes	No	Low	High
COT-17	10	High	Low	Yes	No	Yes	High	No
COT-18	10	High	Low	Yes	No	Yes	High	No

a. See the introduction to this volume for explanation of priorities.

Table 2-15. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type ^a							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building
High-Risk Hazards								
Earthquake	9	1 – 11	10		8, 10, 15	1 – 11		9, 18
Wildfire	9		15		8, 10, 15	12-16		9, 18
Medium-Risk Hazards,								
Severe Weather	9	16, 17	15		8, 15	15,16		9, 18
Flood	9	16, 17	15	17	8, 15	15,16		9, 18
Landslide	9	17		17	8, 15			9, 18
Low-Risk Hazards								
Dam Failure	9	17		17				9, 18
Sea Level Rise	9							9, 18
Tsunami	9							9, 18

a. See the introduction to this volume for explanation of mitigation types.

2.8 PUBLIC OUTREACH

Table 2-16 lists public outreach activities for this jurisdiction.

Table 2-16. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
Cotati City Council Meeting—HMP Presentation	05/11/2021	25
City Website HMP Highlight	February 2021	
City Utility Newsletter HMP Outreach	January 2021	

2.9 REVIEW AND INCORPORATION OF INFORMATION FOR THIS ANNEX

The following technical reports, plans, and regulatory mechanisms were reviewed for this annex.






- **Cotati Municipal Code**—The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- **Cotati Flood Damage Prevention Ordinance** (*Cotati Municipal Code, Title 15, Chapter 15.04, section 040*)—The flood damage prevention ordinance was reviewed for compliance with the National Flood Insurance Program.
- **Cotati Capital Improvement Program**
- **Sonoma Water 2015 Urban Water Management Plan**—City of Cotati is referenced as having participated in the development of the plan
- **Cotati General Plan**
- **Sonoma County Continuity of Operations Plan**
- **Sonoma County Regional Climate Action Plan**
- **Sonoma County Community Wildfire Protection Plan**

The following outside resources and references were reviewed:

- **Hazard Mitigation Plan Annex Development Toolkit**—The toolkit was used to support the identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the mitigation action plan.

Cotati

Dam Failure Inundation Area

-  Inundation Area
-  Selected City
-  Incorporated Cities
-  Sonoma County
-  Highways

Data Source: ESRI Basemap,
Sonoma Co., CA DWR









0 0.1 0.2 0.4
Miles



Cotati

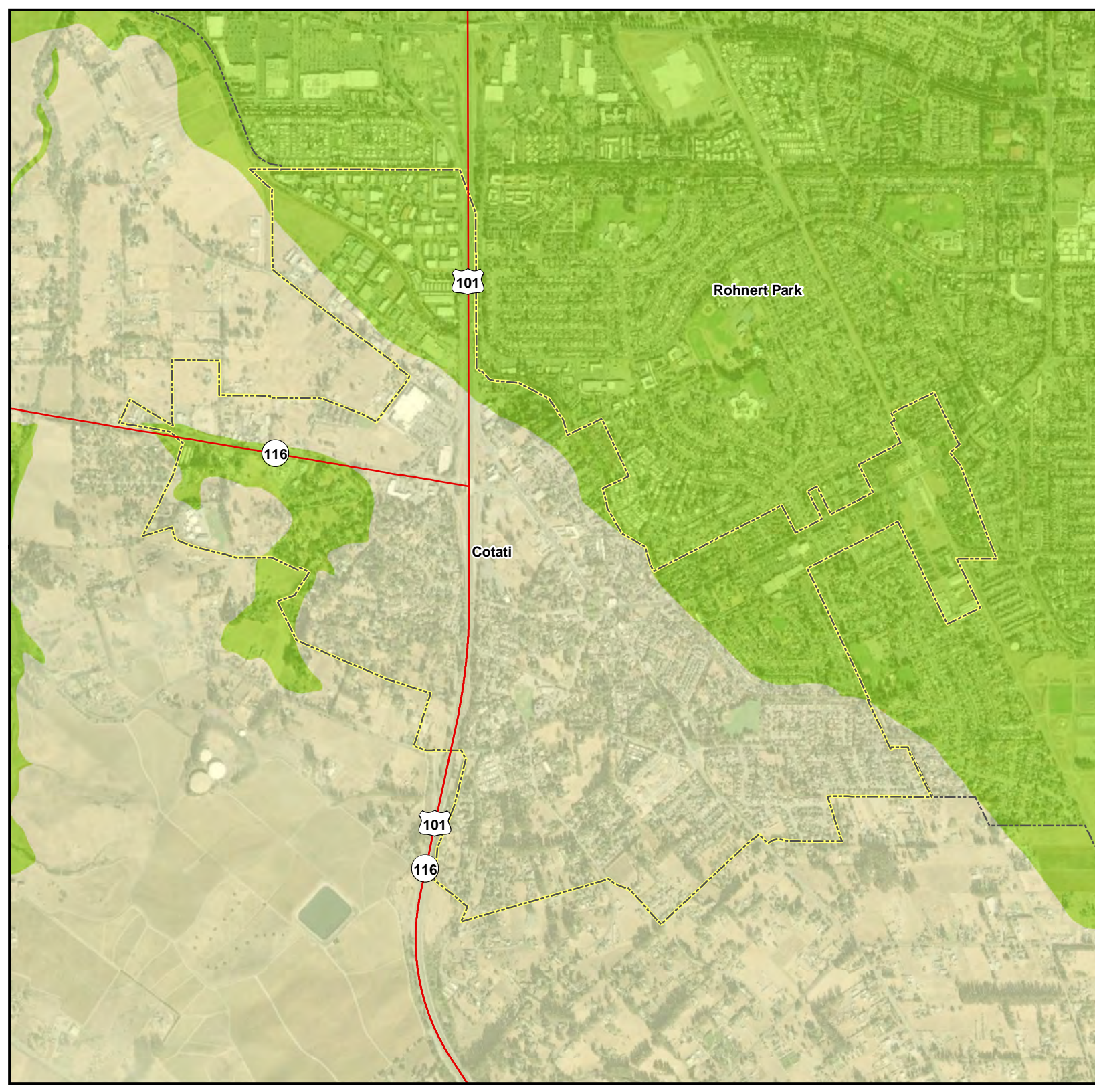
NEHRP Soil Classifications

-  C (Dense soil/soft rock)
-  D (Stiff soil)
-  Selected City
-  Incorporated Cities
-  Sonoma County
-  Highways

Data Source: ESRI Basemap,
Sonoma Co., CGS













0 0.1 0.2 0.4
Miles

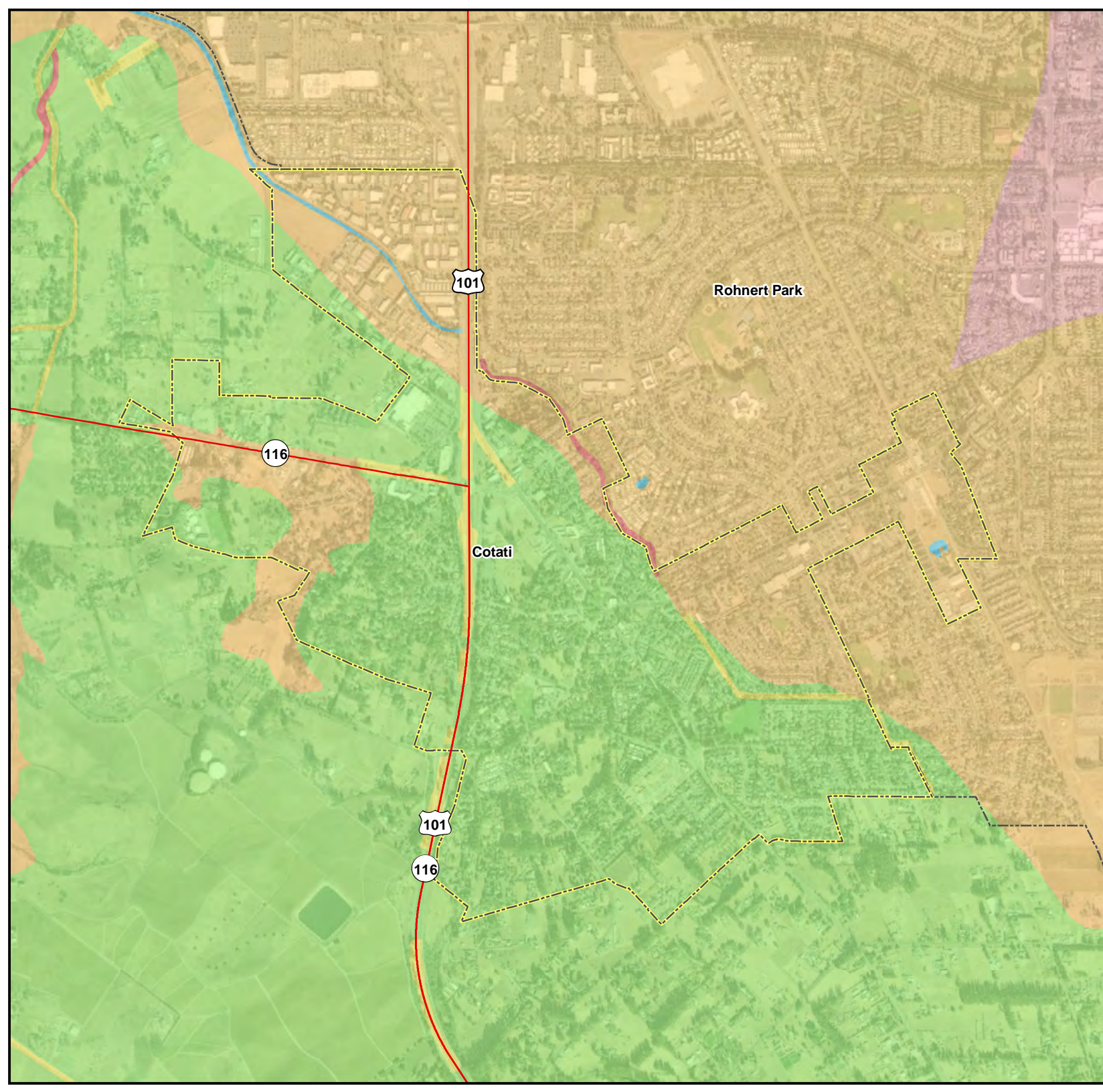
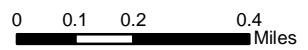


Cotati

Liquefaction Susceptibility

-  Water
-  Very Low
-  Low
-  Moderate
-  High
-  Very High
-  Selected City
-  Incorporated Cities
-  Sonoma County
-  Highways

Data Source: ESRI Basemap, Sonoma Co., USGS



Cotati


100-year Probabilistic Earthquake Scenario

Mercalli Intensity Scale

 VII (Very Strong/Moderate)

 Selected City

 Incorporated Cities

 Sonoma County

 Highways

Intensity scale described as:
(perceived shaking / potential damage)

Data Source: ESRI Basemap,
Sonoma Co., USGS









0 0.1 0.2 0.4 Miles

Cotati

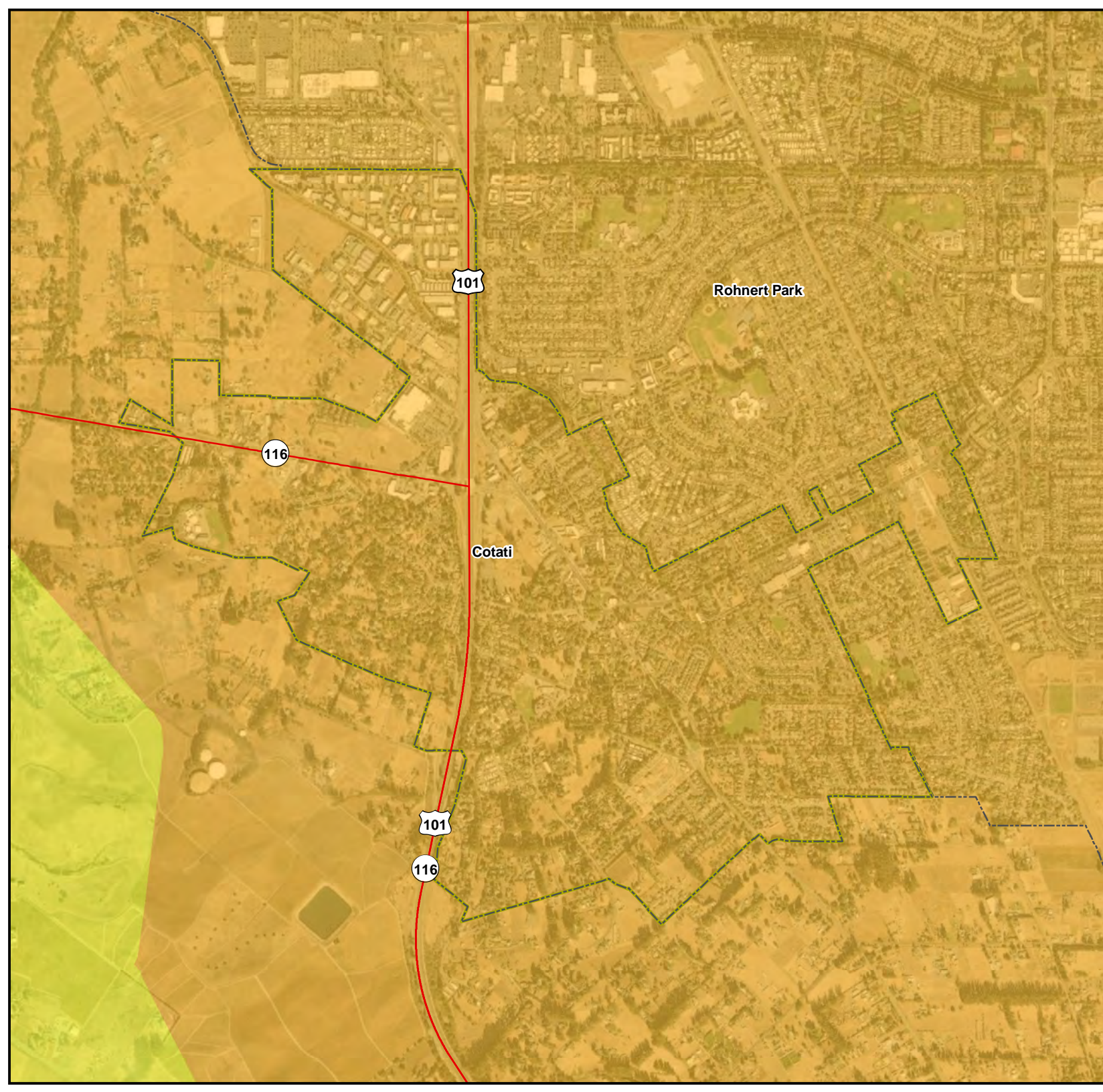
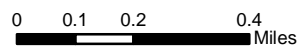
Hayward M7.57 Earthquake Scenario

Mercalli Intensity Scale

-  VII (Very Strong/Moderate)
-  VIII (Severe/Moderate-Heavy)
-  Selected City
-  Incorporated Cities
-  Sonoma County
-  Highways

Intensity scale described as:
(perceived shaking / potential damage)







Data Source: ESRI Basemap,
Sonoma Co., USGS



Cotati

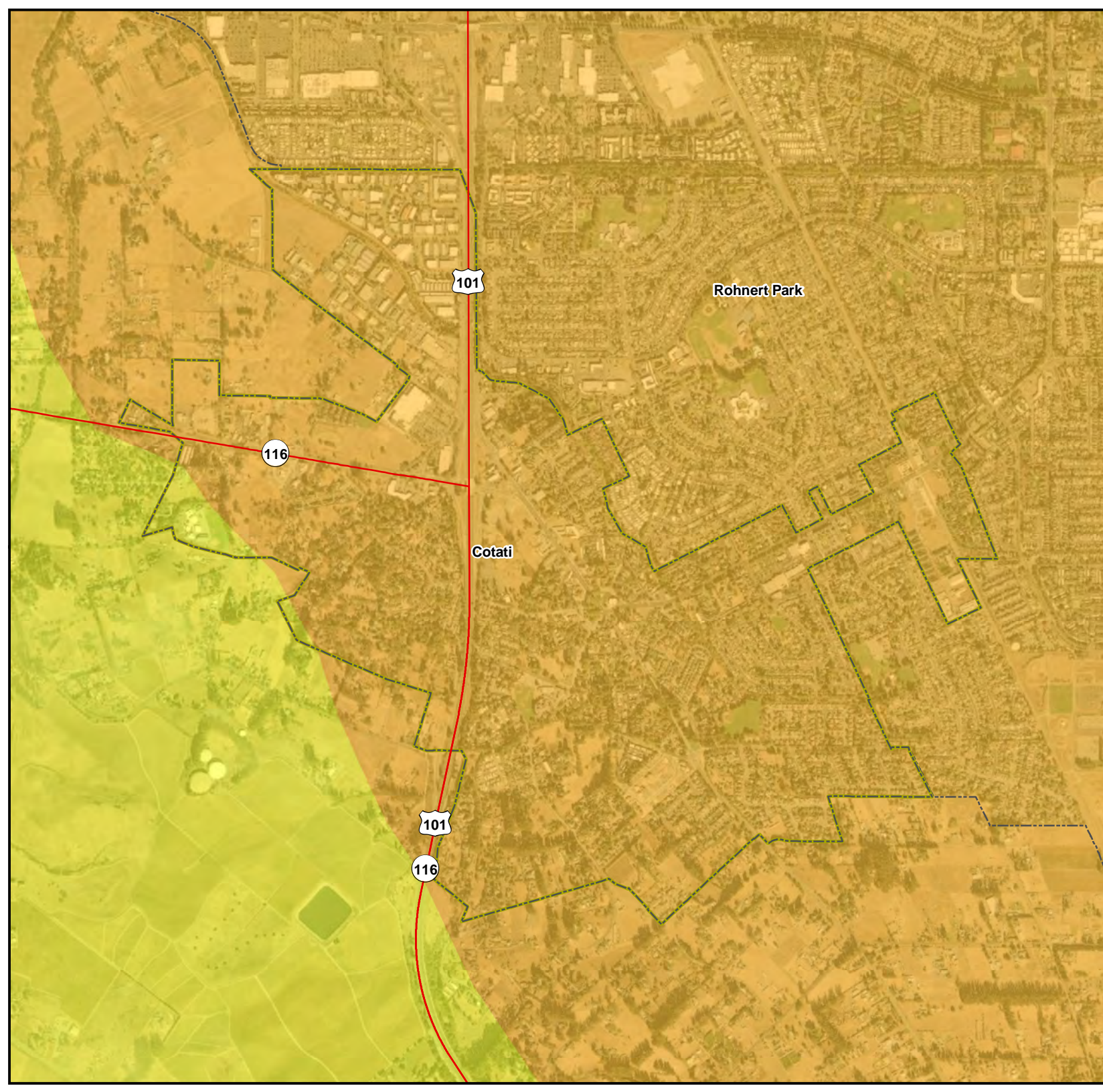
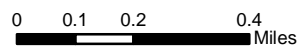
Healdsburg M7.19 Earthquake Scenario

Mercalli Intensity Scale

-  VII (Very Strong/Moderate)
-  VIII (Severe/Moderate-Heavy)
-  Selected City
-  Incorporated Cities
-  Sonoma County
-  Highways

Intensity scale described as:
(perceived shaking / potential damage)






Data Sources: Esri Basemap,
Sonoma Co., USGS



Cotati

Maacama M7.5 Earthquake Scenario

Mercalli Intensity Scale

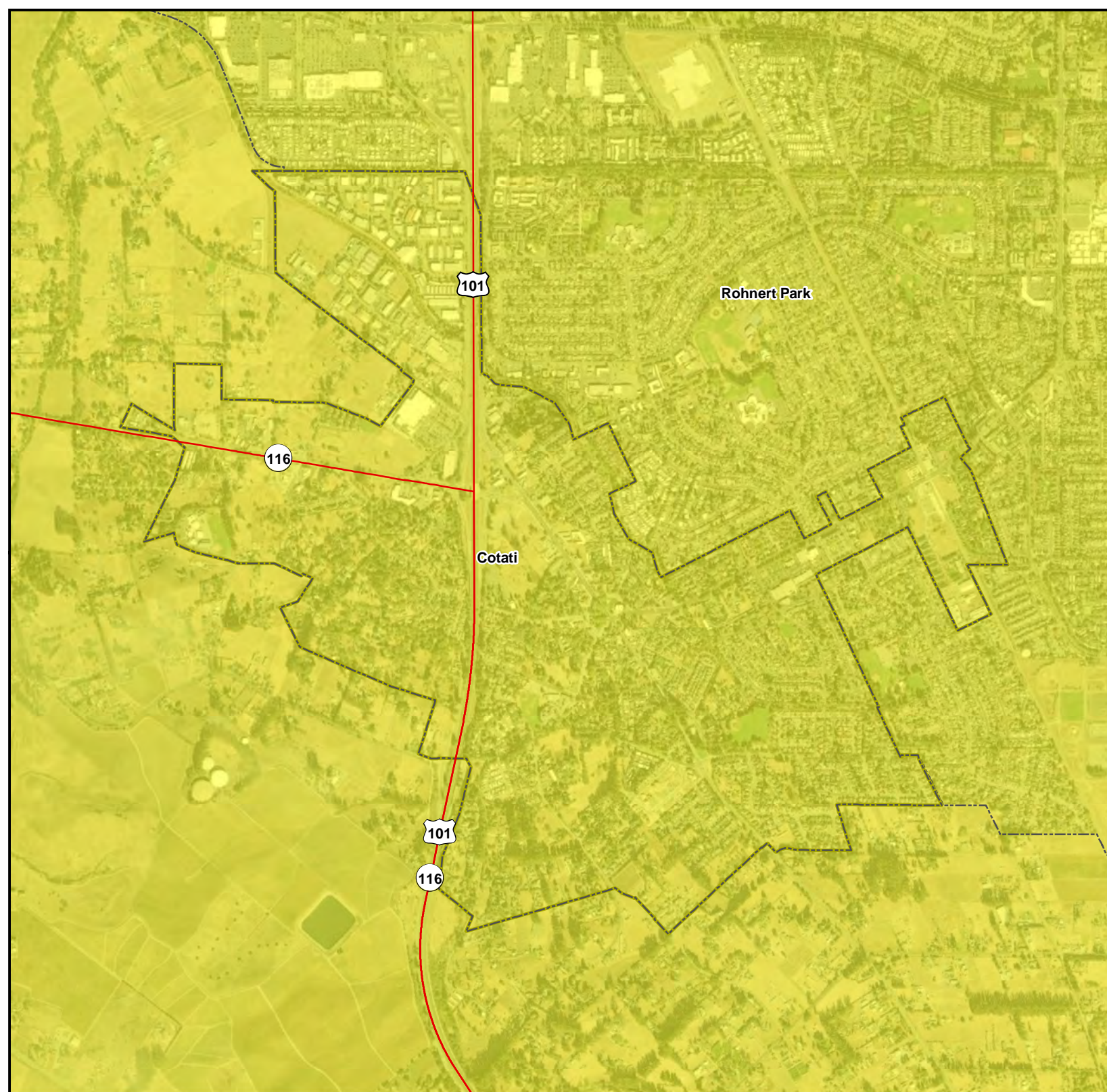
-  VII (Very Strong/Moderate)
-  Selected City
-  Incorporated Cities
-  Sonoma County
-  Highways

Intensity scale described as:
(perceived shaking / potential damage)

Data Source: ESRI Basemap,
Sonoma Co., USGS








0 0.1 0.2 0.4
Miles



Cotati

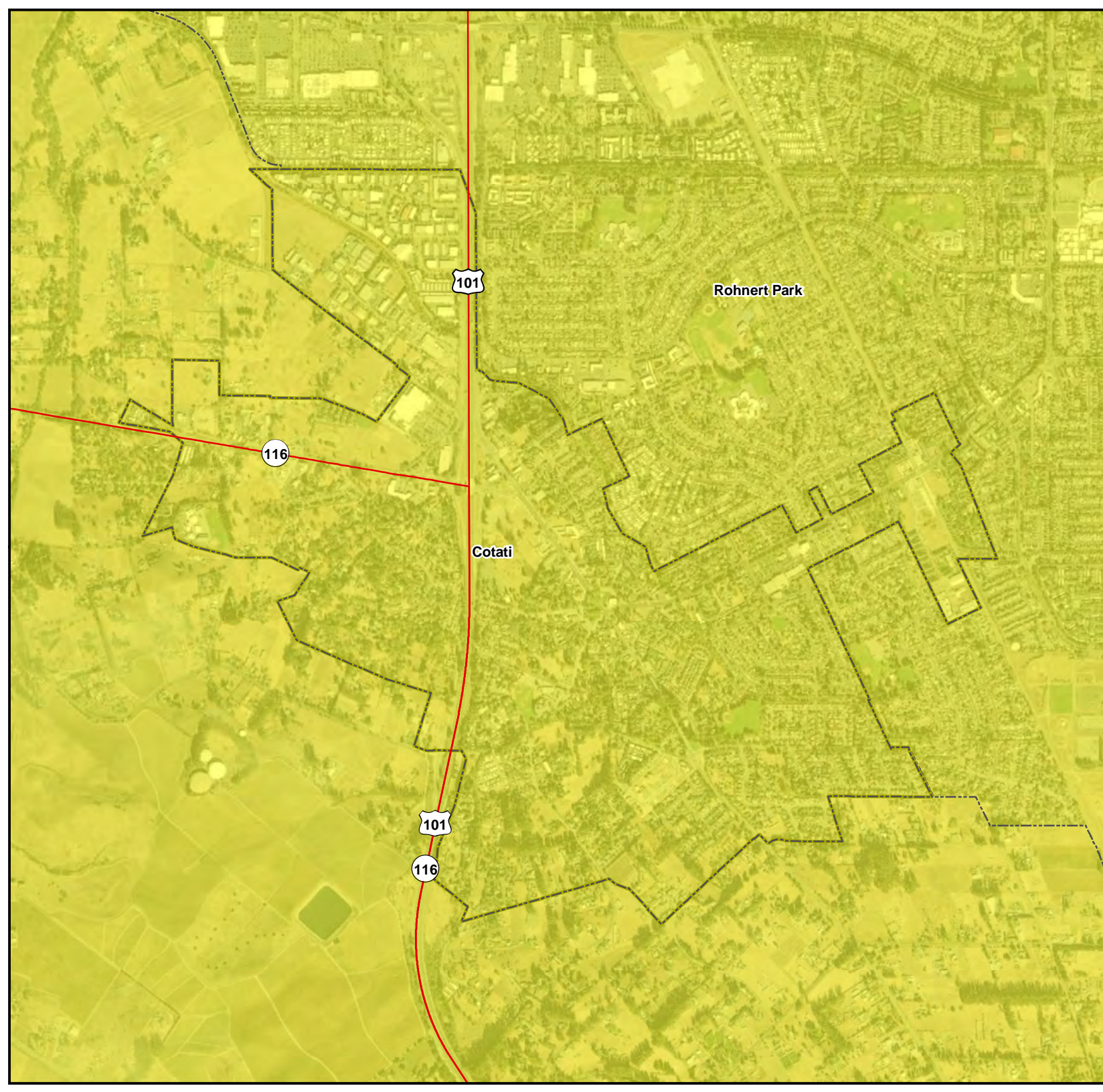
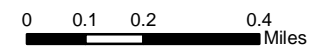
San Andreas M8.04 Earthquake Scenario

Mercalli Intensity Scale

-  VII (Very Strong/Moderate)
-  Selected City
-  Incorporated Cities
-  Sonoma County
-  Highways







Intensity scale described as:
(perceived shaking / potential damage)

Data Source: ESRI Basemap,
Sonoma Co., USGS



Cotati

Flood Hazard Areas

-  1% Annual Chance Flood (100-Year)
-  0.2% Annual Chance Flood (500-Year)
-  Selected City
-  Incorporated Cities
-  Sonoma County
-  Highways

Data Sources: Esri Basemap, Sonoma Co., FEMA








0 0.1 0.2 0.4 Miles



Cotati

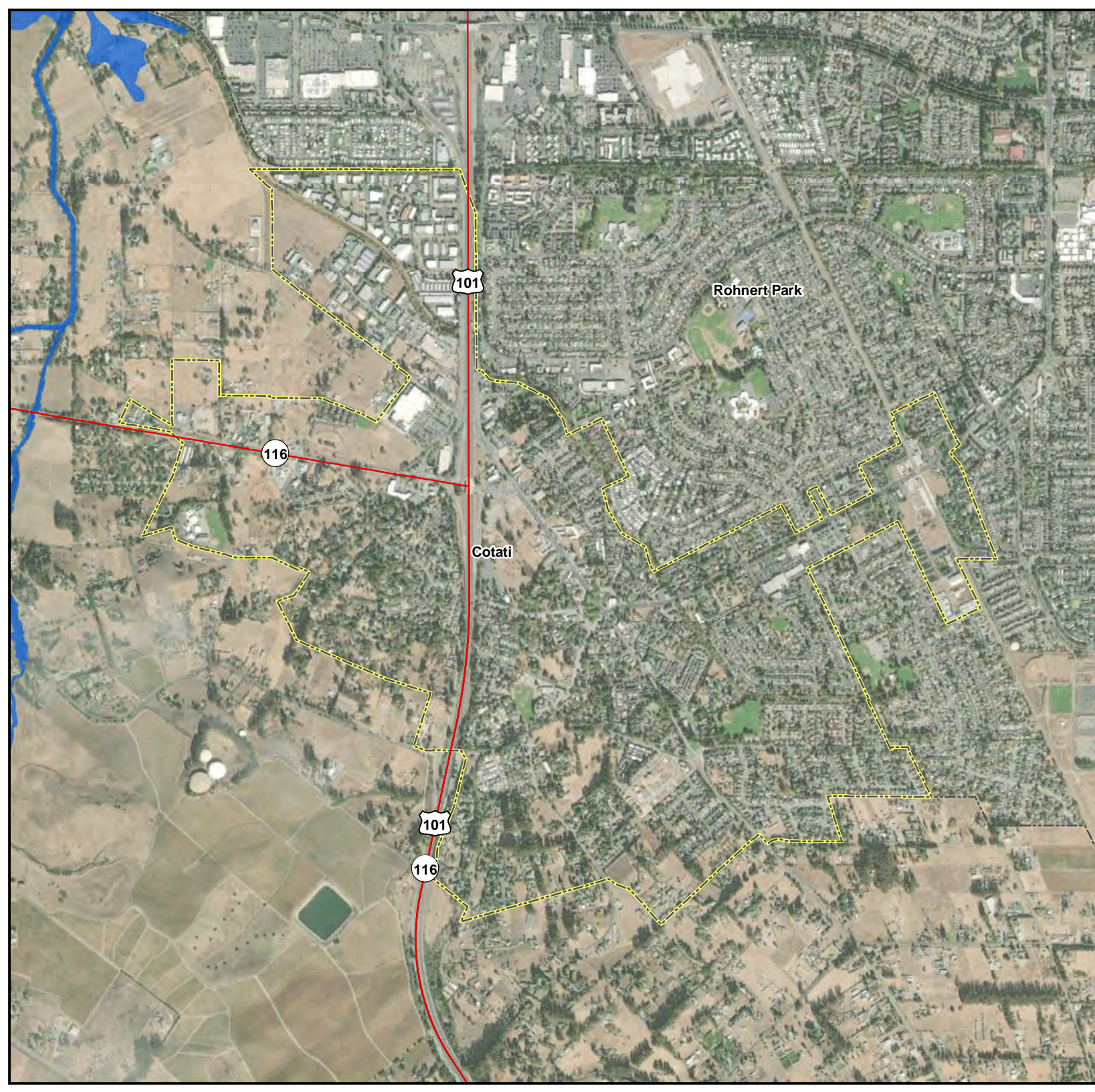
Flood Awareness Areas

-  Flood Awareness Areas
-  Selected City
-  Incorporated Cities
-  Sonoma County
-  Highways

Data Sources: Esri Basemap, Sonoma Co.



0 0.1 0.2 0.4 Miles

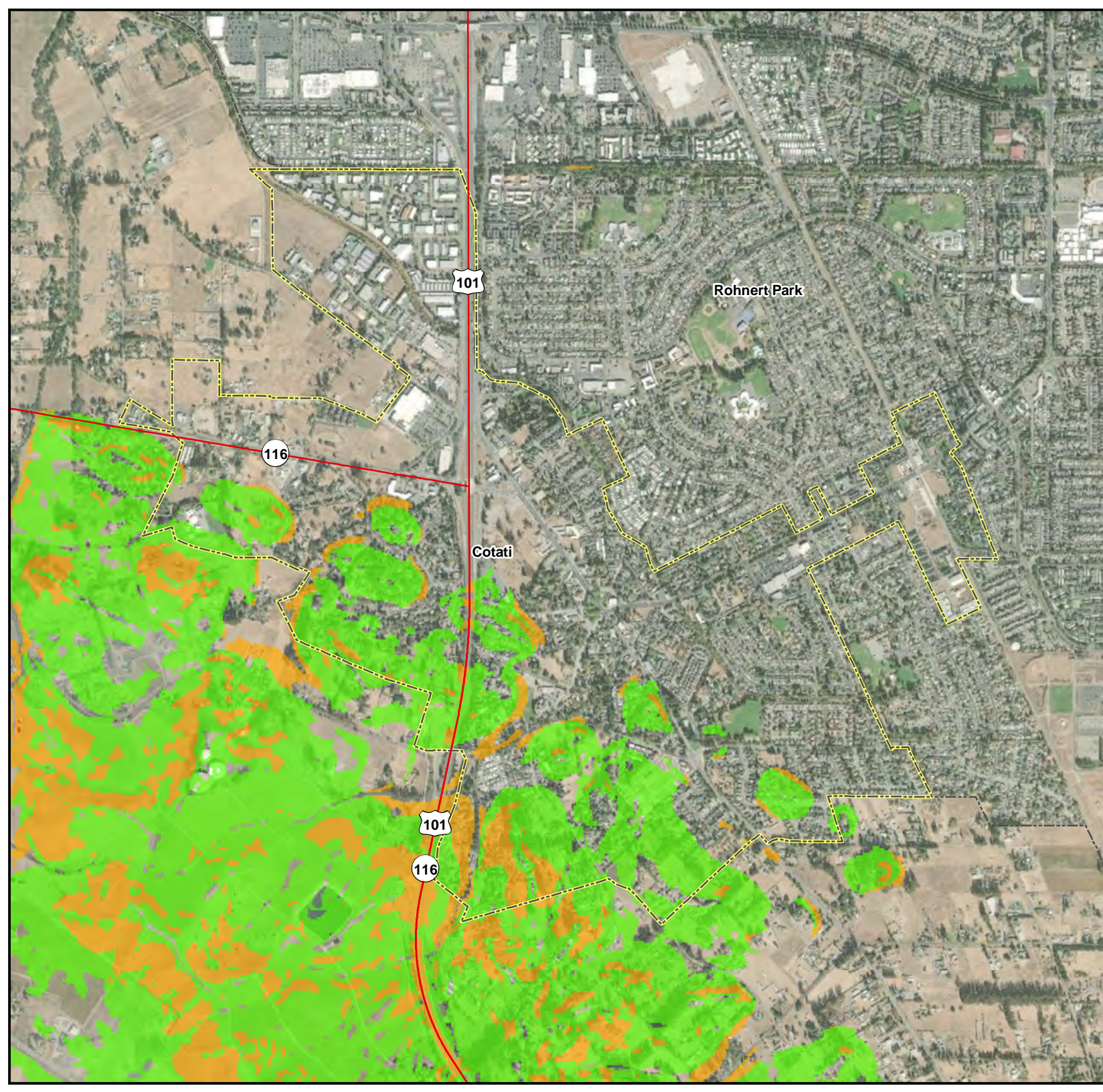
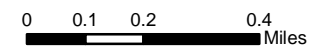


Cotati

Susceptibility to Deep-Seated Landslides

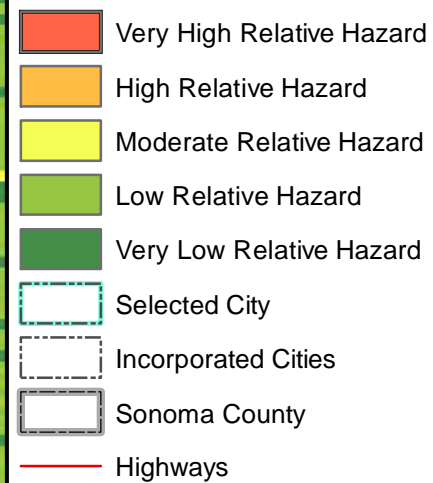
- Low
- Moderate
- High
- Very High
- Selected City
- Incorporated Cities
- Sonoma County
- Highways

Data Sources: Esri Basemap, Sonoma Co., CGS



Cotati

Wildfire Hazard Index



Data Sources: Esri Basemap, Sonoma Co.

