

# CHAPTER 7. CITY OF MERIDIAN ANNEX

## 7.1. HAZARD MITIGATION PLAN POINT OF CONTACT

### Primary Point of Contact

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## 7.2. JURISDICTION PROFILE

The following is a summary of key information about the jurisdiction and its history:

- **Date of Incorporation**—August, 1903
- **Current Population**—75,290 as of 2/23/2009
- **Population Growth**—Meridian has seen significant growth in the last 10 years, with an increase of 12.8% since 2009. Community Planning Association of Southwest Idaho (COMPASS) estimates that the population of Meridian will increase to 138,564 by 2035, an increase of over 70%.
- **Location and Description**—Meridian is not only geographically located in the center of the Treasure Valley, but it also is the population center of the Treasure Valley; people are evenly distributed in all directions from Meridian. Downtown Meridian is approximately 10 miles from the heart of Boise.
- **Brief History**—Meridian has transformed from a sagebrush-filled mail drop located on the Oregon Trail in the 1880s, to a small fruit orchard center after the turn of the century through the 1930s, to a dairy-based farming community in the 1940s. Meridian is named for Idaho's principle meridian used for the initial survey of the state which coincides with Meridian Road at the center of the City. Its character as a small farming community continued until approximately 1990, when its population was still about 10,000.
- **Climate**—Meridian is favored by a mild, arid climate. July is the hottest month, with the average high temperature of 90° F. January is the coldest month with an average low temperature of 22° F. The normal precipitation pattern in the Meridian area shows a winter high of 1.2 inches of precipitation per month and a very pronounced summer low of about 0.1 inches. Typically there are 12 inches of annual precipitation.
- **Governing Body Format**—Meridian uses the Mayor-Council form of local government. In Meridian, the Council, which includes the Mayor, possesses both legislative and executive authority. Departments include: City Clerk, Finance, Fire, Human Resources, Mayor's Office, Parks & Recreation, Planning, Police, and Public Works.
- **Development Trends**—As of 2009, single family housing is the predominant development in Meridian, accounting for 88% of all dwelling units. Additionally, Meridian currently provides 15% of available jobs in Ada County, or 29,013, with Boise providing 139,883 of

192,679 jobs. Meridian seeks to improve and diversify its housing inventory, create strong and sustainable jobs, improve infrastructure, and support diversified modes of transportation.

### **7.3. JURISDICTION-SPECIFIC NATURAL HAZARD EVENT HISTORY**

Table 7-1 lists all past occurrences of natural hazards in the county. Repetitive loss records are as follows:

- Number of FEMA Identified Repetitive Flood Loss Properties: None
- Number of Repetitive Flood Loss Properties that have been mitigated: Not Applicable

### **7.4. HAZARD RISK RANKING**

Table 7-2 presents the ranking of the hazards of concern.

### **7.5. CAPABILITY ASSESSMENT**

The assessment of the jurisdiction's legal and regulatory capabilities is presented in Table 7-3. The assessment of the jurisdiction's administrative and technical capabilities is presented in Table 7-4. The assessment of the jurisdiction's fiscal capabilities is presented in Table 7-5. Classifications under various community mitigation programs are presented in Table 7-6.

### **7.6. HAZARD MITIGATION ACTION PLAN AND EVALUATION OF RECOMMENDED INITIATIVES**

Table 7-7 lists the initiatives that make up the jurisdiction's hazard mitigation plan. Table 7-8 identifies the priority for each initiative. Table 7-9 summarizes the mitigation initiatives by hazard of concern and the six mitigation types.

### **7.7. STATUS OF PREVIOUS PLAN INITIATIVES**

Table 7-10 summarizes the current status of initiatives that were adopted by the County for the previous hazard plan. Those that are directly carried over as actions in this hazard plan are also indicated as such in Table 7-7.

### **7.8. FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY**

The City of Meridian is traversed and served by 2 major canal networks. The New York Canal carries up to 2400 cubic feet per second and the Ridenbaugh Canal conveys up to 600 cubic feet per second through the City. Both canals are situated on ground higher than most of the community and intersect the City's natural creeks which are also used and maintained as drains by the Nampa and Meridian Irrigation District.

There is no record of historic failures of either of these canals affecting Meridian; however, a catastrophic failure would be a significant event. The calculated peak discharge for the 100 year flood in Tenmile Creek is about 400 cubic feet per second. A failure of either canal in the Tenmile Creek basin would provide opportunity to exceed that flow by several times.

The City of Meridian currently has no assessment of the vulnerability of flooding or effect of flooding from a canal breach. Such an assessment should be done, preferably in cooperation with the entities (Nampa and Meridian Irrigation District and Boise Project Board of Control) that manage these facilities.

Additionally, data is needed on the following hazards to have a better understanding on risk within the planning area:

- Earthquake—NEHRP soils data as well as USGS “shake maps” for scenario events most likely to impact the planning area.
- Landslide—Soils data for landslide susceptibility Analysis.
- Wildfire—Enhanced wildfire mapping that will better support risk ranking and the measurement of risk reduction activities. Mapping similar to California’s Fire and Resource Assessment Program (FRAP).
- Flood—A consistent data set on flood risk that is both publically and politically supported that accurately reflects the true flood risk is desperately needed within the planning area.

### 7.9. HAZARD AREA EXTENT AND LOCATION

Hazard area extent and location maps for the City of Meridian are included at the end of this chapter. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes.

TABLE 7-1. NATURAL HAZARD EVENTS		
Type of Event	Date	Preliminary Damage Assessment
Thunderstorm/Wind	8/21/2010	N/A
Thunderstorm/Wind	6/4/2010	N/A
Thunderstorm/Wind	7/22/2008	N/A
Thunderstorm/Wind	7/4/2006	N/A
Thunderstorm/Wind	1/30/2004	N/A
Thunderstorm/Wind	7/25/2002	N/A
Thunderstorm/Wind	8/13/1996	N/A
Hail	7/6/1995	N/A
Hail	6/16/1995	N/A
Thunderstorm/Wind	4/27/1995	N/A

TABLE 7-2. HAZARD RISK RANKING		
Rank	Hazard Type	Risk Rating Score (Probability x Impact)
1	Severe Weather	(3x12)=36
2	Earthquake	(2x12)=24
3	Flood	(3x6)=18
4	Wildfire	(3x6)=18
5	Landslide	(1x6)=6
6	Volcano	(1x6)=6
7	Drought	(2x1)=2
8	Dam Failure	(1x0)=0

TABLE 7-3. LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
<b>Codes, Ordinances &amp; Requirements</b>					
Building Code	Yes	No	No	No	Adopted 2009 IBC January 2011, Ordinance 11-1472
Zonings	Yes	No	No	No	City Code Title 11 Chapter 2
Subdivisions	Yes	No	No	No	City Code Title 11 Chapter 6
Stormwater Management	Yes	Yes	Yes	Yes	ACHD holds NPDES Permit. City is responsible for Stormwater Pollution Prevention associated with City Projects
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	No	No	No	No	
Growth Management	Yes	No	No	No	October 2010 Comprehensive plan adopted by resolution #11-784 on 4/19/2011.
Site Plan Review	Yes	No	Yes	No	City Planning, Public Works, Nampa & Meridian Irrigation District, Settlers Irrigation District
Special Purpose (flood management, critical areas)	Yes	No	No	No	NFIP Participating Community, City Code Section 10 Chapter 6
<b>Planning Documents</b>					
Comprehensive Plan	Yes	No	No	No	October 2010 Comprehensive plan adopted by resolution #11-784 on 4/19/2011.
Floodplain or Basin Plan	No	No	No	No	

**TABLE 7-3.  
LEGAL AND REGULATORY CAPABILITY**

	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
Stormwater Plan	No	No	No	No	
Capital Improvement Plan	Yes	No	No	No	5-Year CIP for water, sewer and reclaimed water utilities. Updated annually. Last update to cover 2012 thru 2016.
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	Yes	No	No	No	Updated 2010-2012. Mayor's Office of Economic Excellence. Strategic plan presented to City Council and public record on October 12, 2010
Emergency Response Plan	Yes	No	No	No	<b><u>ACCEM:</u></b> Ada County Flood Response Plan. Adopted: January, 2006 Ada County Mass Casualty Incident Plan. Adopted: 12/16/2010 Ada County HAZMAT Response Plan. Adopted: April 2011 Ada County Wildfire Response Plan. Adopted: May 2010
Shoreline Management Plan	No	No	No	No	
Post Disaster Recovery Plan	No	No	No	No	

**TABLE 7-4.  
ADMINISTRATIVE AND TECHNICAL CAPABILITY**

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Planning Department employs several qualified planners.
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works Department has qualified Engineers, Development Analysts / Plan Reviewers, and Inspectors
Planners or engineers with an understanding of natural hazards	Yes	Planning and Public Works
Staff with training in benefit/cost analysis	Yes	Public Works
Floodplain manager	Yes	Certified Floodplain Manager in Public Works
Surveyors	No	
Personnel skilled or trained in GIS applications	Yes	Public Works
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Fire / Police
Grant writers	Yes	Planning

**TABLE 7-5.  
FISCAL CAPABILITY**

Financial Resources	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
Incur Debt through General Obligation Bonds	No
Incur Debt through Special Tax Bonds	No
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	Yes
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	None

	Participating?	Classification	Date Classified
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	10/10	N/A
Public Protection	Yes	ISO Class 3	2009
Storm Ready	Yes	Blue	N/A
Firewise	No	N/A	N/A

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline	Included in Previous Plan?
<b>Initiative #M-1</b> —Conduct a survey of water, sewer, fire, and police infrastructure including power generation equipment, wastewater treatment plant facilities, communications, and Supervisory Control and Data Acquisition (SCADA) equipment to analyze vulnerability to severe weather and earthquake, then design and execute improvements to mitigate.							
Existing	Severe Storm, Earthquake	1,2,3,10	City	Medium	Enterprise Fund, General Fund	Short Term	No
<b>Initiative #M-2</b> —Become a “Firewise Community”							
New and Existing	Wildland Fire	2,4,5,6,8	City	Low	General Fund	Short Term	No
<b>Initiative #M-3</b> —Maintain compliance and good standing in the National Flood Insurance Program							
New and Existing	Flood	1,2,4,5,6,8	City	Low	General Fund, Surface Water Utility Fund	Short Term Ongoing	Yes 8.1.g
<b>Initiative #M-4</b> —Apply for participation in the Community Rating System (CRS) and Maintain Standing in CRS							
New and Existing	Flood	1,2,4,5,6,7,8	City	Low	General Fund, Surface Water Utility Fund	Short Term, Ongoing	No
<b>Initiative #M-5</b> —Create a surface water utility including fee collection.							
New and Existing	Flood, Severe Weather	1,2,4,5,6,8,10	City	Low	General Fund, Surface Water Utility Fund	Short Term, Ongoing	No
<b>Initiative #M-6</b> —Develop a comprehensive stormwater management plan that includes the creation of a capital improvements program for stormwater in support of a stormwater utility.							
New and Existing	Flood, Severe Weather	1,2,3,10	City	Med	Surface Water Utility Fund	Short Term, Long Term, Ongoing	No

<b>TABLE 7-7. HAZARD MITIGATION ACTION PLAN MATRIX</b>							
Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline	Included in Previous Plan?
<b>Initiative #M-7</b> — Partner with ACHD to implement a culvert replacement program for approximately 15 crossings of Fivemile, Ninemile, and Tenmile Creeks including design and construction.							
Existing	Flood, Severe Weather	1,2	ACHD, City	High	Surface Water Utility Fund, FEMA PDM or HMGP Grants.	Long Term	No
<b>Initiative #M-8</b> — Partner with Idaho Transportation Department (ITD) to design and construct culvert improvements on Fivemile Creek at the I-84 / Eagle Road Interchange according to recommendations of “Fivemile Creek at Interstate 84—Eagle Road to Wells Street” Hydraulic Report, November 2008.							
Existing	Flood, Severe Weather	1,2	City	High	Surface Water Utility Fund, ITD Funding, FEMA PDM or HMGP Grants.	Short Term or Long Term	No
<b>Initiative #M-9</b> —Perform a vulnerability assessment on the Ridenbaugh and New York Canal system in the Meridian Area of Impact.							
Existing	Flood, Earthquake	1,2	City	Med	Surface Water Utility Fund	Short Term	No
<b>Initiative #M-10</b> — Perform an assessment to determine housing areas that would benefit from foundation elevation projects. Work with homeowners to apply for grant funding for projects.							
Existing	Flood	3,8,9	City	Low	Surface Water Utility Fund	Short Term or Long Term	No
<b>Initiative #M-11</b> — Integrate Local Hazard Mitigation Plan into the City of Meridian’s Comprehensive Plan.							
New and Existing	All Hazards	2,5,6	Meridian Planning Dept.	Low	General Fund	Next available update to Comp Plan	No
<b>Initiative #M-12</b> —Consider appropriate higher regulatory standards that prevent or reduce risk to the built environment from the known hazards of concern.							
New and Existing	All Hazards	4,6	Meridian Planning Dept.	Low	General Fund	Long Term	No

**TABLE 7-7.  
HAZARD MITIGATION ACTION PLAN MATRIX**

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline	Included in Previous Plan?
<b>Initiative #M-13</b> — Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with properties with exposure to repetitive losses as a priority.							
Existing	All Hazards	3,8,9	Meridian Building Dept.	High	FEMA Hazard Mitigation Grants, with property owner contribution for local match	Long Term Depends on funding	No
<b>Initiative #M-14</b> —Support County-wide initiatives identified in Volume 1.							
New and Existing	All Hazards	All	City	Low	General Fund	Short Term, Ongoing	No
<b>Initiative #M-15</b> —Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1.							
New & Existing	All Hazards	All	ACCEM, Meridian	Low	General Fund, FEMA Mitigation Grant Funding for 5-year update	Short-Term, Ongoing	No

**TABLE 7-8.  
MITIGATION STRATEGY PRIORITY SCHEDULE**

Initiative #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority <sup>a</sup>
M-1	4	High	Medium	Yes	Yes	No	Medium
M-2	5	High	Medium	Yes	No	No	Medium
M-3	6	High	Low	Yes	No	Yes	High
M-4	7	High	Low	Yes	No	Yes	High
M-5	7	High	Low	Yes	No	Yes	High
M-6	4	High	High	Yes	No	No	High
M-7	2	High	High	Yes	Yes	No	High
M-8	2	High	High	Yes	Yes	No	High
M-9	2	Medium	Medium	Yes	Yes	No	High
M-10	3	High	Low	Yes	Yes	Yes	Medium
M-11	3	High	Low	Yes	No	Yes	High
M-12	2	High	Low	Yes	No	Yes	Medium
M-13	3	High	High	Yes	Yes	No	Medium
M-14	10	High	Low	Yes	No	Yes	High
M-15	10	High	Low	Yes	Yes	Yes	High

a. See Section 1.3 for definitions of high, medium and low priorities.

**TABLE 7-9.  
ANALYSIS OF MITIGATION INITIATIVES**

Hazard Type	Initiative Addressing Hazard, by Mitigation Type					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Dam Failure	N/A	N/A	N/A	N/A	N/A	N/A
Drought	M-11, M-12, M-15	M-13	M-14	M-11	M-14	
Earthquake	M-1, M-9, M-11, M-12, M-15	M-1, M-13	M-14	M-11	M-14	M-1
Flood	M-3, M-4, M-5, M-6, M-7, M-8, M-9, M-10, M-11, M-12, M-15	M-3, M-4, M-5, M-6, M-7, M-8, M-9, M-10, M-13	M-3, M-4, M-5, M-14	M-5, M-11	M-14	M-5, M-6, M-7, M-8, M-10
Landslide	M-11, M-12, M-15	M-13	M-14	M-11	M-14	
Severe Weather	M-1, M-6, M-11, M-12, M-15	M-1, M-13	M-14	M-11	M-14	M-1, M-5, M-6, M-7, M-8
Wildfire	M-2, M-11, M-12, M-15	M-2, M-13	M-2, M-14	M-11	M-14	

1. Prevention: Government, administrative or regulatory actions that influence the way land and buildings are developed to reduce hazard losses. Includes planning and zoning, floodplain laws, capital improvement programs, open space preservation, and stormwater management regulations.
2. Property Protection: Modification of buildings or structures to protect them from a hazard or removal of structures from a hazard area. Includes acquisition, elevation, relocation, structural retrofit, storm shutters, and shatter-resistant glass.
3. Public Education and Awareness: Actions to inform citizens and elected officials about hazards and ways to mitigate them. Includes outreach projects, real estate disclosure, hazard information centers, and school-age and adult education.
4. Natural Resource Protection: Actions that minimize hazard loss and preserve or restore the functions of natural systems. Includes sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
5. Emergency Services: Actions that protect people and property during and immediately after a hazard event. Includes warning systems, emergency response services, and the protection of essential facilities.
6. Structural Projects: Actions that involve the construction of structures to reduce the impact of a hazard. Includes dams, setback levees, floodwalls, retaining walls, and safe rooms.

**TABLE 7-10.  
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
8.1.a		X		This is now addressed by Objective #8
8.1.b		X		This is now addressed by Objective #6.
8.1.c		X		This is now addressed by Objective #5.
8.1.d		X		This is now addressed by Objective #2
8.1.e		X		This is now addressed by Objective #6.
8.1.f		X		This is now addressed by Objective #5.
8.1.g		X		This is now addressed by action item AC 6
8.1.h			X	This action does not apply to the County.
8.1.i		X		This action will be carried over for review by planning and development services and its purpose and function is now addressed by Objectives 5 and 6
8.1.j			X	This action is now addressed by plan maintenance strategy found in Chapter 7.
8.1.k	X			ACCEM and Red Cross coordinate these functions.
8.2.a			X	Red Cross Shelter sites are not owned by the County.
8.2.c	X			All Ada County residents are encouraged to own NOAA radios as part of their personal all hazard preparedness. This information is included in all public presentations, the website and appears periodically in an electronic newsletter.
8.2.d		X		This is now addressed by Objective #2
8.2.e	X			The revised format of the plan update provides for measurable actions that can be recommended and implemented at an individual jurisdiction or district level.
8.2.f		X		This is now addressed by Objective #10
8.1.e		X		This is now addressed by Objective #6.
8.2.g		X		The process of risk evaluation is ongoing as is the creation of mitigation strategies based on the most recent data. This objective was written with multiple actions that may not all be implemented at once. Its concept and purpose are now covered by Objectives 2,3,4,5 and 6.
8.2.h			X	(Well Intakes) This infrastructure is not County property; it will be addressed in the appropriate jurisdictional annex.
8.2.i				This action is now covered by Objective 3

**TABLE 7-10.  
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
8.2.j			X	More modern early warning systems are being investigated that will capitalize on current available technologies.
8.3.a		X		This is now addressed by Objective #2
8.3.b		X		This is now addressed by Objective #2
8.3.c		X		This is now addressed by Objective #2
8.3.d		X		The statement contains more than one action. The multiple actions that are contained are now addressed by Objectives 2 and 10
8.3.e			X	This action will be addressed in the appropriate jurisdictional annex (ACHD)
8.3.f		X		This is now addressed by Objective #7
8.3.g			X	This action will be addressed in the appropriate jurisdictional annex (ACHD)
8.4.h			X	This action will be addressed in the appropriate jurisdictional annex (ACHD)
8.4.j			X	Action is currently not viable. Requires Irrigation District Planning Partners
8.4.k			X	This action will be addressed in the appropriate jurisdictional annex (ACHD)
8.4.a			X	Generators will be incorporated into larger projects that improve resiliency. These types of improvements are now addressed by Objectives 1 and 10
8.4.b			X	This action will be addressed in the appropriate jurisdictional annex (Kuna)
8.4.c	X			Completed—ACHD has placed Opticom on traffic signals for First Responders to control signals. Each City has an evacuation plan along with the contra-flow plan.
8.4.d		X		This is now addressed by Objective #10
8.4.e			X	This is a basic service provided by ACHD and does not need to be addressed in the Mitigation Plan
<b>Fire Mitigation Activities</b>				
5.1.a		X		Ongoing activity that is now addressed by Objective 6.
5.1.b		X		This is now addressed by Objective #6
5.1.c		X		This is now addressed by Objective #6

**TABLE 7-10.  
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
5.1.d	X			Ordinance # 760 bans fireworks in the threatened areas of the unincorporated County.
5.2.a			X	Wildfire Steering Committee is now comprised solely of jurisdictions with direct involvement in firefighting activities.
5.2.b		X		Ongoing activity that is now addressed by Objective 8.
5.2.c			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.d			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.e			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.f			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.g			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.h			X	This activity will be addressed in the City of Boise annex.
5.2.i		X		Evacuation plans are complete. Public outreach is ongoing and is now addressed by Objective 8.
5.2.j			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.k			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.3.a		X		This activity is now addressed by Objective 7.
5.3.b		X		This activity is now addressed by Objective 9.
5.3.c		X		This activity is now addressed by Objective 9.
5.3.d		X		This is an ongoing activity regulated by County Ordinance #769.
5.3.e		X		This is an ongoing activity that involves multiple jurisdictions and districts. Its purpose and intent are now addressed by Objectives 5 and 9.
5.3.f			X	This activity is a response action and will be addressed by the jurisdictions in Emergency Operations Plans.
5.3.g		X		This activity is now addressed by Objective 5.
5.3.h			X	This activity will be addressed in the ACHD annex.

**TABLE 7-10.  
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
5.4.a		X		This activity is now addressed by Objective 5.
5.4.b		X		This activity is now addressed by Objectives 8 and 9.
5.4.c		X		This activity is now addressed by Objectives 8 and 9.
5.4.d			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.e			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.f			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.g			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.h			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.i			X	This activity will be addressed in the annex of appropriate jurisdiction.
5.4.j			X	This activity will be addressed in the annex of appropriate jurisdiction.
5.4.k			X	This activity is being removed from the Mitigation Plan as it is a direct function of the Interoperable Communications Initiatives being funded through IBHS.
5.4.l			X	This activity is being removed from the Mitigation Plan as it is a direct function of the Interoperable Communications Initiatives being funded through IBHS.
5.4.m			X	This activity will be addressed by the policies of the fire jurisdictions that have volunteer staff.
5.4.n		X		ACCCEM coordinates with all local response agencies to create multi-year training plans. Training funds are available through ACCCEM or directly through IBHS depending on the scope.
5.5.a		X		This activity is now addressed by Objective 5.
5.5.b		X		This activity is now addressed by Objectives 5 and 9.
5.5.c		X		This activity is now addressed by Objective 8.
5.5.d		X		This activity is now addressed by Objective 5.
5.5.e		X		This activity is now addressed by Objective 9.

**TABLE 7-10.  
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
5.5.f			X	This is a program that will be implemented by the Bureau of Land Management on an as needed basis.
5.5.g			X	This is a program that will be implemented by the Bureau of Land Management on an as needed basis.
5.5.h		X		This activity is now addressed by Objective 9.

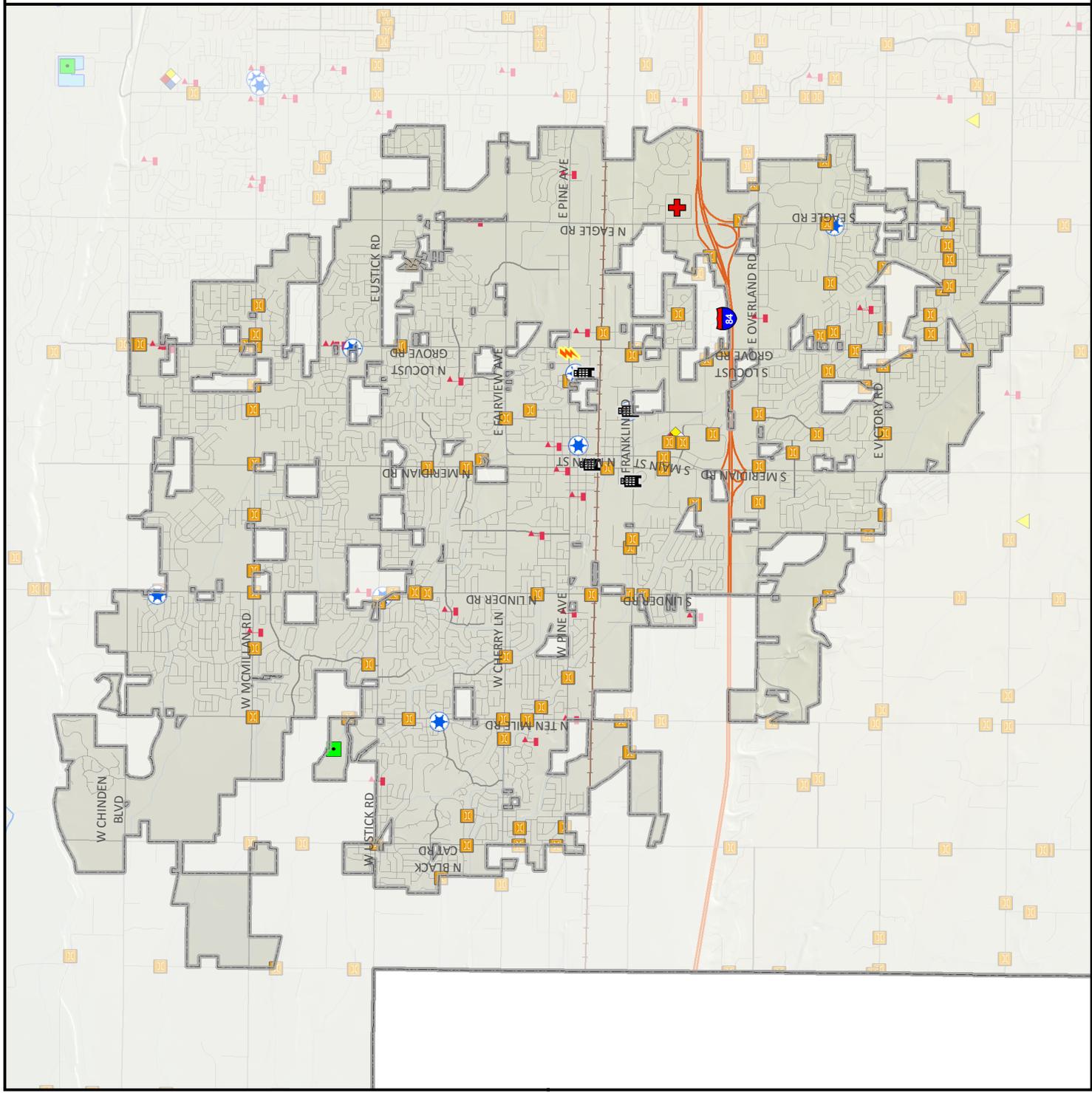
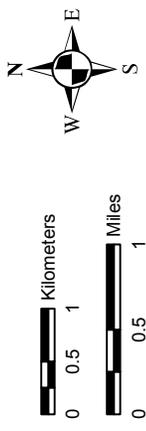
# CITY OF MERIDIAN

## FIGURE X - X Critical Facilities

### Critical Facilities

- Bridge
- Communication
- Dam
- Government
- Hazmat
- Hospital
- Power
- Protective
- School
- Wastewater
- Other

Data Sources:  
 Ada County  
 Base Data: Ada County, Idaho Department  
 of Water Resources



# CITY OF MERIDIAN

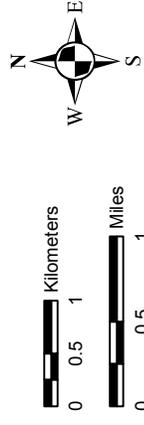
## FIGURE X - X

### Peak Ground Acceleration USGS 100 Year Probabilistic Event

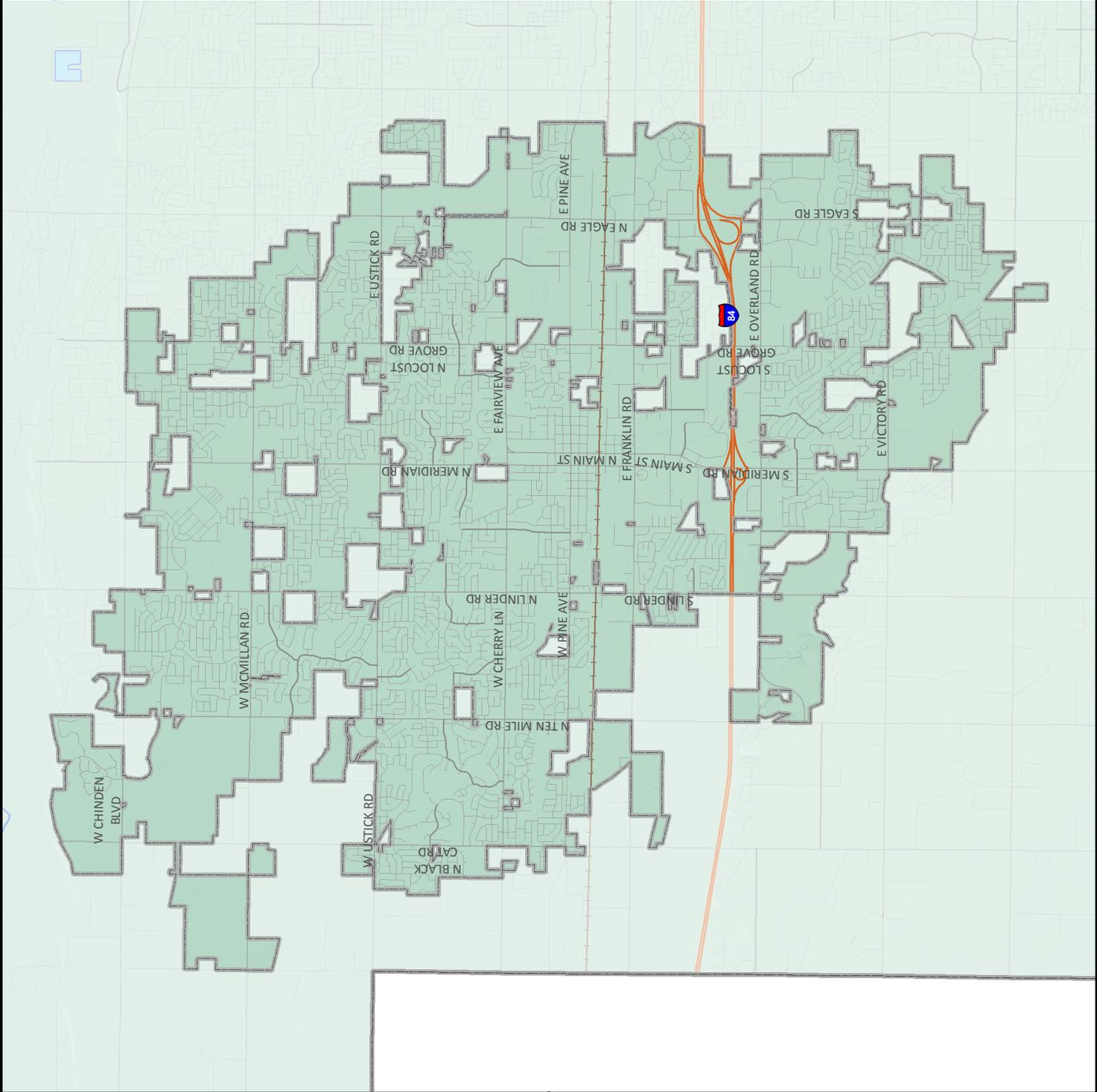
#### Mercalli Scale, Potential Damage

-  IV, None
-  V, Very Light
-  VI, Light
-  VII, Moderate
-  VIII, Moderate to Heavy

Data Sources: HAZUS-MH MR4 Output,  
US Geological Survey  
Base Data: Ada County, Idaho Department  
of Water Resources



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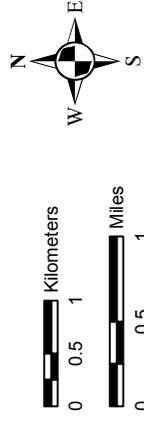
## FIGURE X - X

### Peak Ground Acceleration USGS 500 Year Probabilistic Event

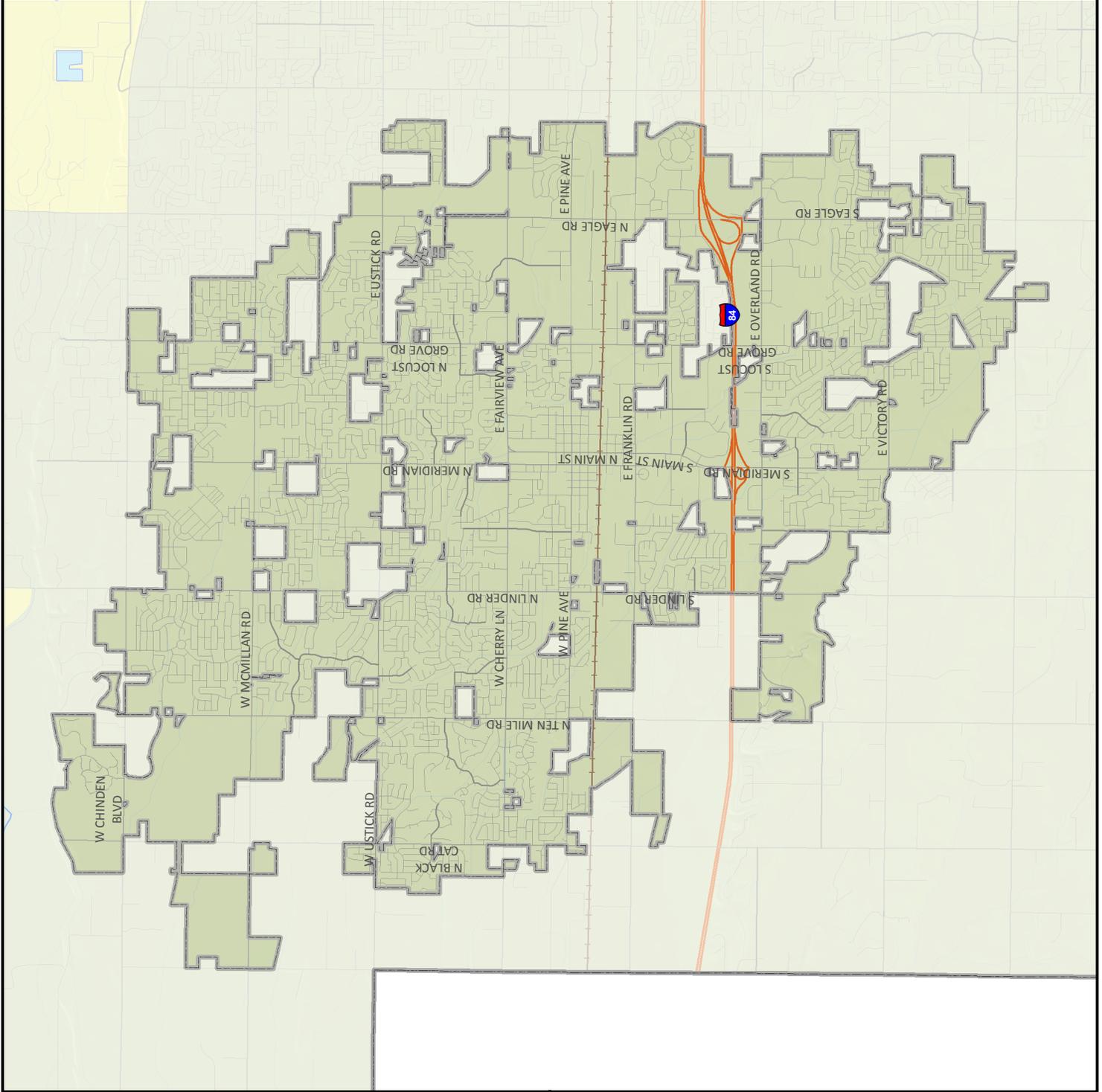
#### Mercalli Scale, Potential Damage

-  IV, None
-  V, Very Light
-  VI, Light
-  VII, Moderate
-  VIII, Moderate to Heavy

Data Sources: HAZUS-MH MR4 Output,  
US Geological Survey  
Base Data: Ada County, Idaho Department  
of Water Resources



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## FIGURE X - X

### Squaw Creek Fault Peak Ground Acceleration Magnitude 7.1 Scenario

#### Mercalli Scale, Potential Damage

- VI, Light
- VII, Moderate

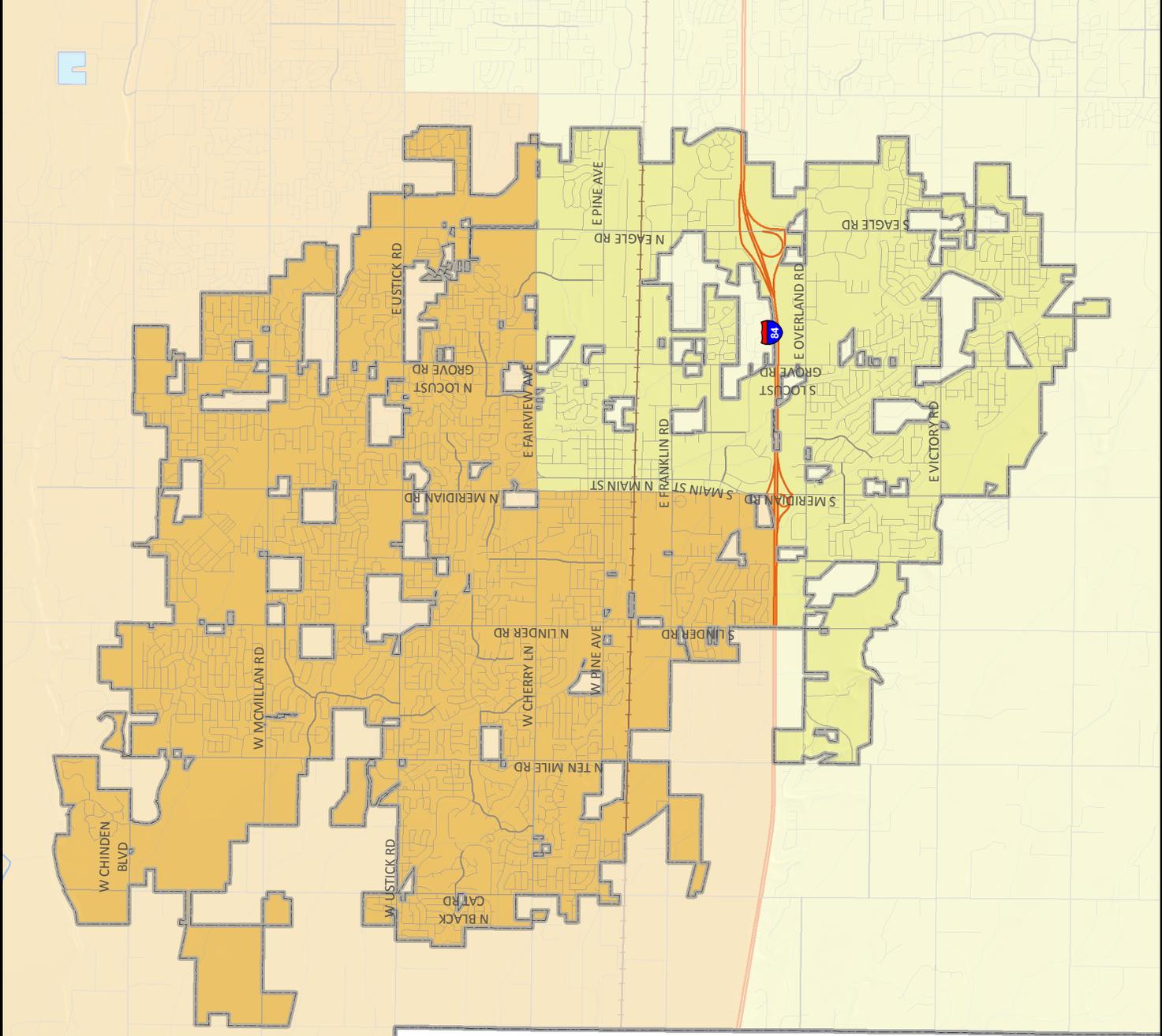
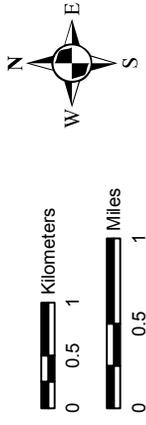
Magnitude: 7.1  
Depth: 16.0km  
Epicenter: N44.0927 W116.356  
Appx. 40km N of Boise, ID

The most important of these is the Squaw Creek fault, about 40 km from Boise (see Field Trip Stop 5 and 7). Last movement on the Squaw Creek fault was post-7000 years (Gilbert and others, 1983). This fault is assigned a maximum credible earthquake (MCE) of magnitude 7.0 at an epicentral distance of 5 km and a focal depth of 7 km (Gilbert and others, 1983). An intensity of VIII is expected in Boise from this MCE (Zolweg, 2005).

This information provided by:

"Field Trip Guide to the Natural Hazards of the Boise Area, Idaho" January 2007, William M. Phillips, Geologist, Idaho Geologic Survey

Data Sources: United States Geological Survey  
Base Data: Ada County, Idaho Department of Water Resources



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## FIGURE X - X

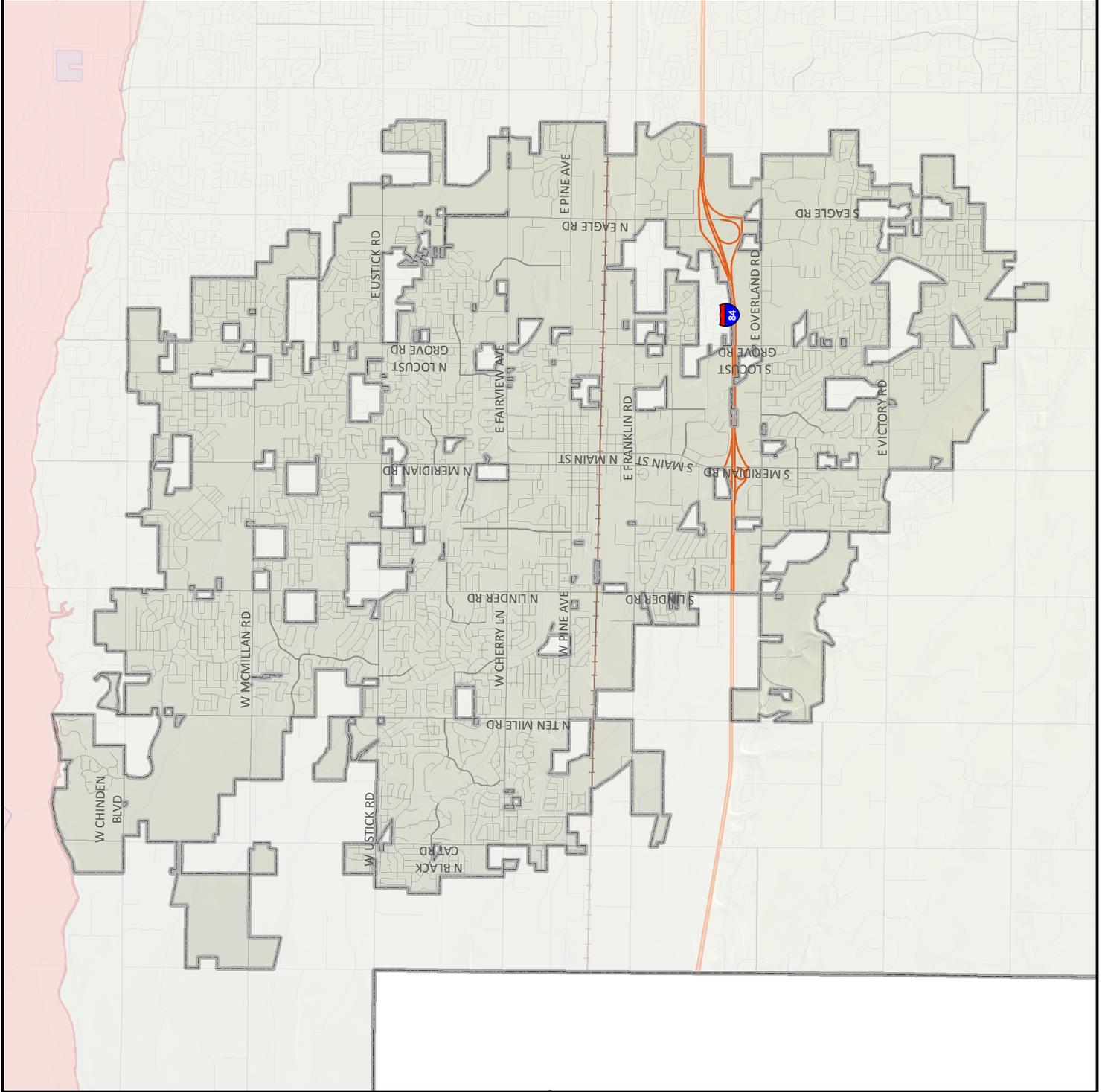
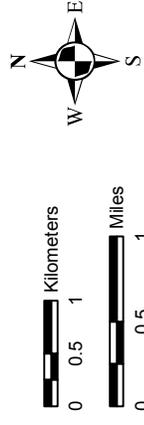
### Lucky Peak Dam Failure

#### Maximum Pool Inundation Area

Area inundated by dam failure occurring when pool elevation is at the top of the impounding structure

This map has been compiled using the best information available and is believed to be accurate, however, its preparation required many assumptions. Actual conditions during a failure may vary from those assumed, so the accuracy cannot be guaranteed. The limits of flooding shown and the temporal data should only be used as a guideline for emergency planning and response actions. Actual areas inundated and inundation timing will depend on specific flooding and failure conditions and may differ from the areas shown on the maps.

Data Sources: US Army Corps of Engineers  
Base Data: Ada County, Idaho Department of Water Resources



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## FIGURE X - X

### Flood Studies: Idaho Department of Water Resources & US Army Corps of Engineers

#### Flood Zones



Idaho Department of  
Water Resources Eagle Island  
100 Year Flood Study



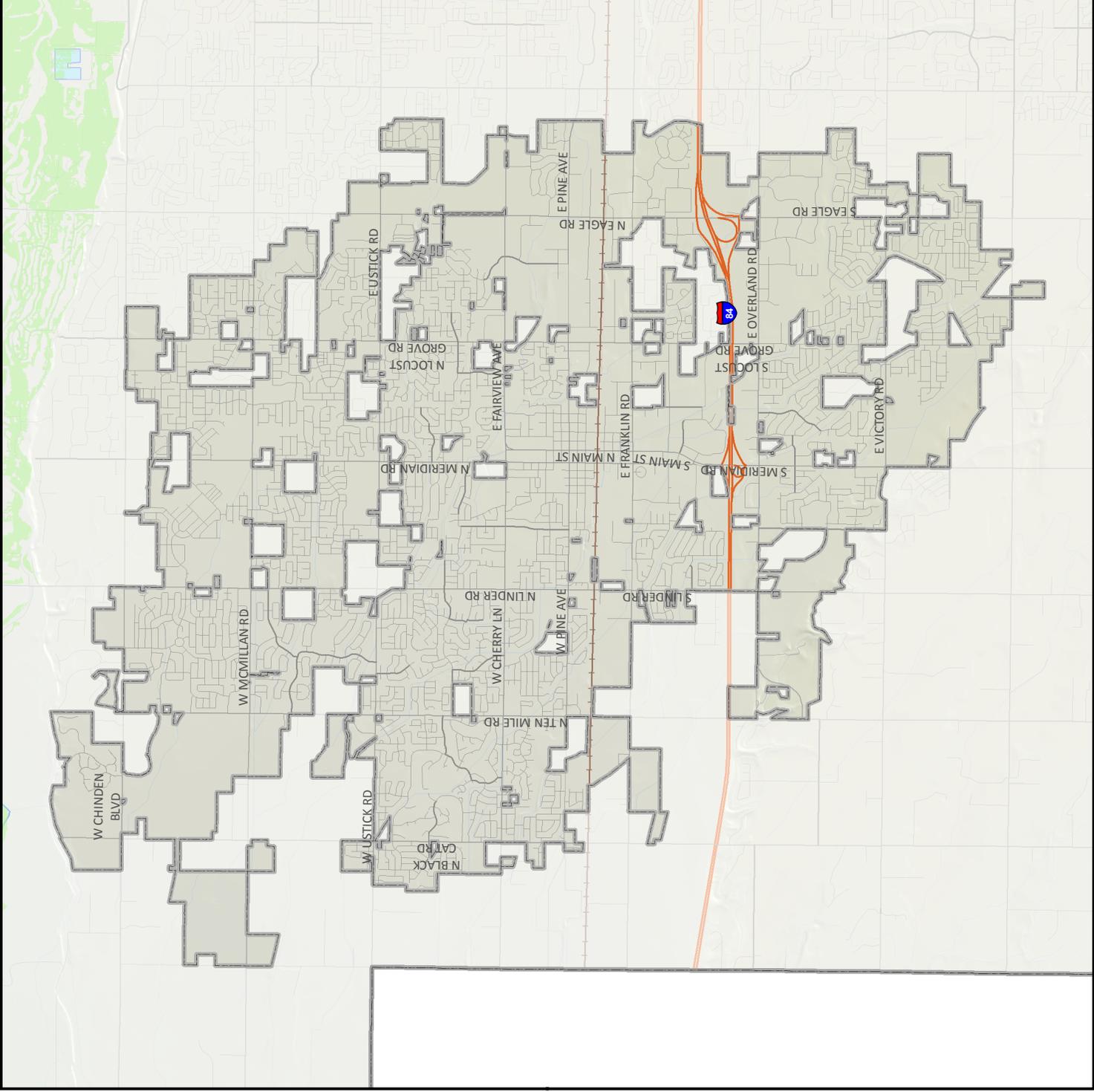
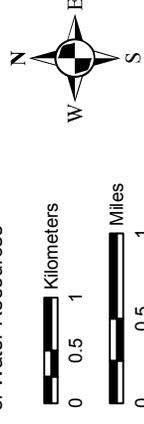
US Army Corps of Engineers  
Boise River Flood Study  
(100 Year)



US Army Corps of Engineers  
Boise River Flood Study  
(500 Year)

#### Data Sources:

Eagle Island 100 Year Flood Study -  
Idaho Department of Water Resources  
Boise River Flood Study (100 & 500 Year) -  
US Army Corps of Engineers  
Base Data: Ada County, Idaho Department  
of Water Resources



# CITY OF MERIDIAN

## FIGURE X - X

### FEMA DFIRM Special Flood Hazard Areas

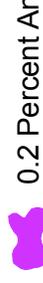
#### Flood Zones



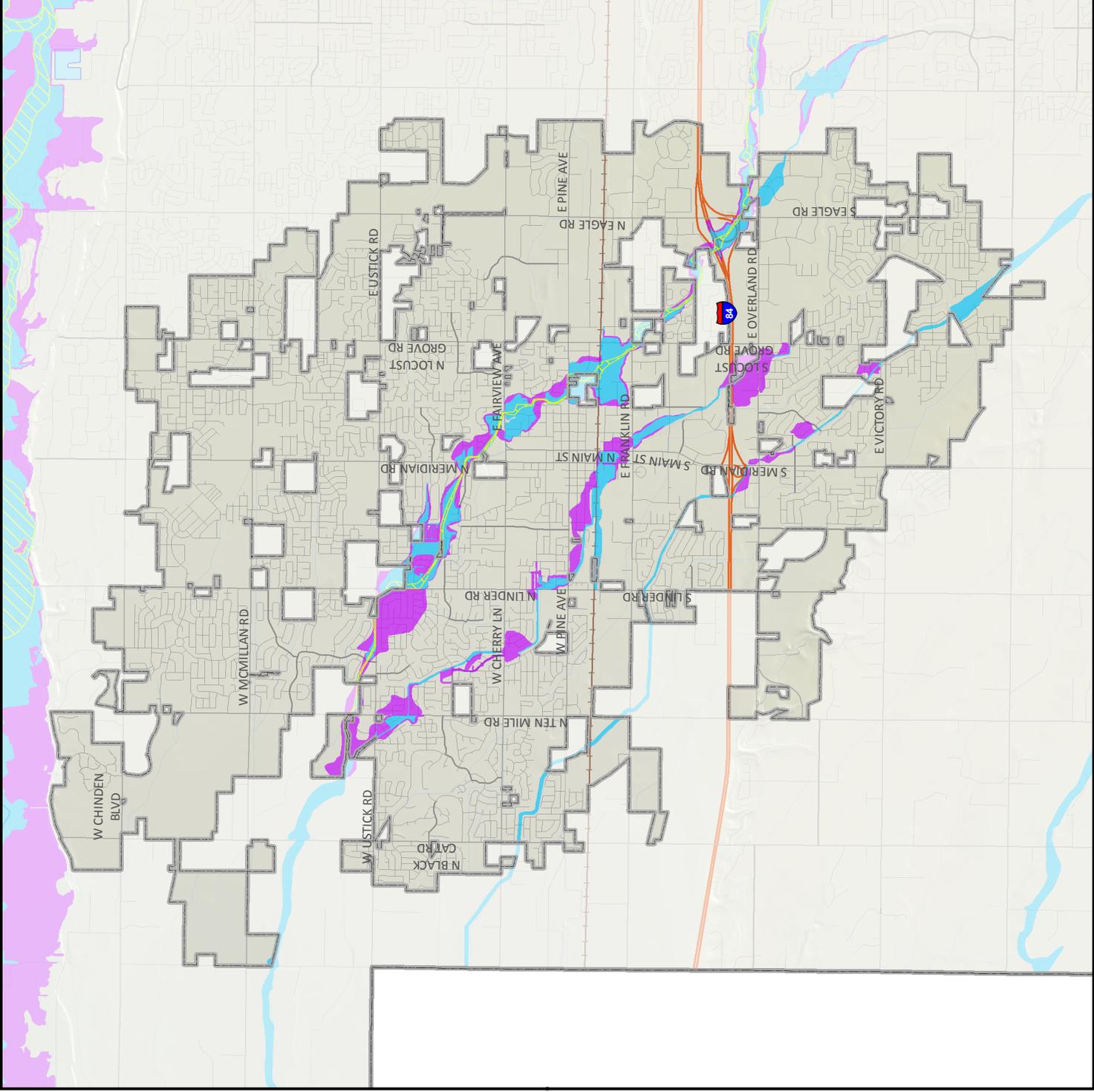
Floodway



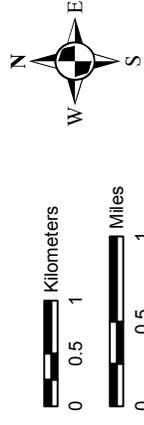
1 Percent Annual Chance  
Special Flood Hazard Area  
(100 Year)



0.2 Percent Annual Chance  
Special Flood Hazard Area  
(500 Year)



Data Sources:  
FEMA Digital Flood Insurance Rate Maps  
Base Data: Ada County, Idaho Department  
of Water Resources



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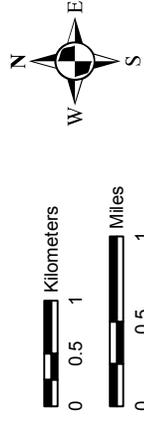
## FIGURE X - X

### Areas of Steep Slope

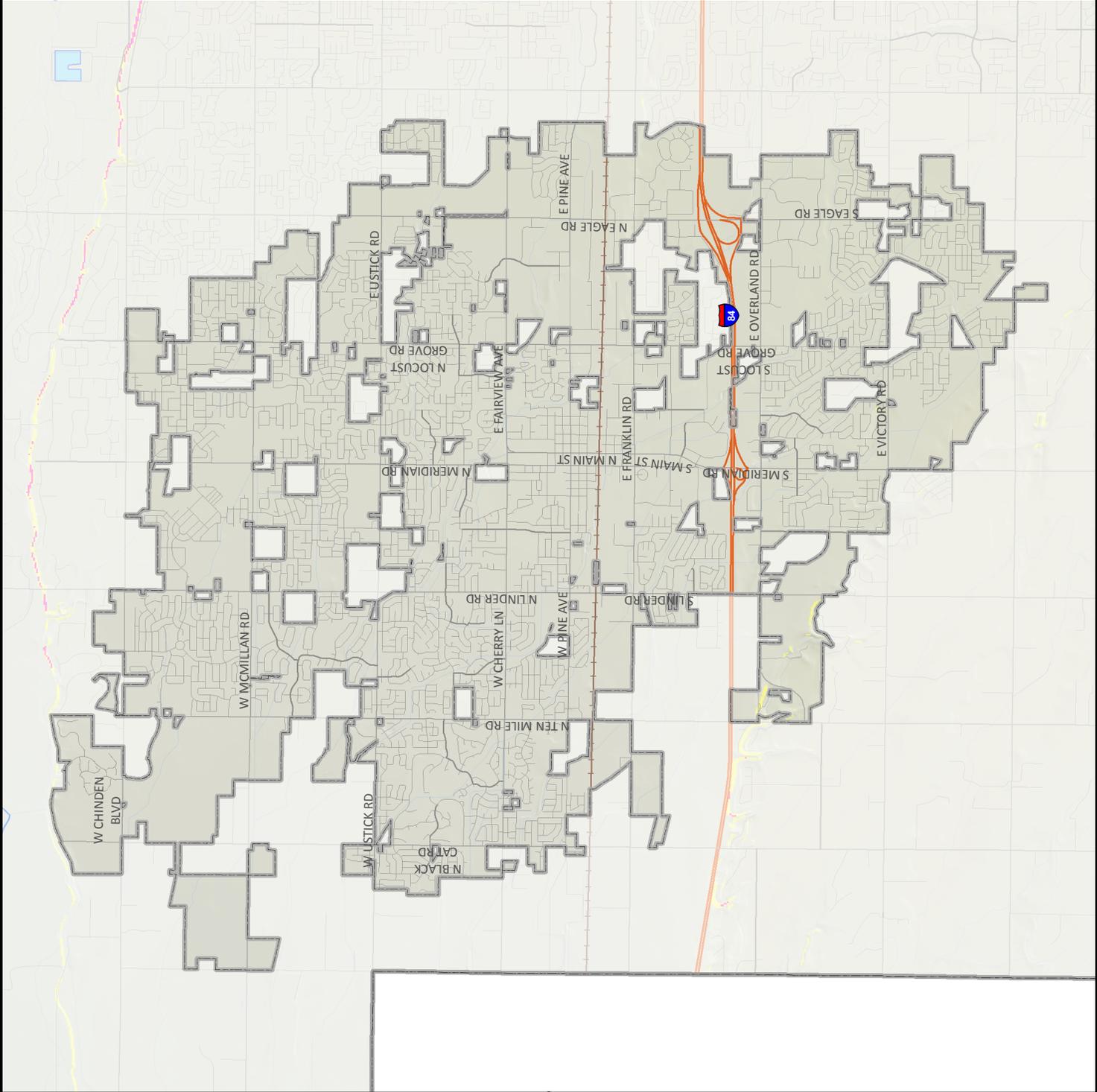
#### Percent Slope

- 15 - 30% Slope
- > 30% Slope

Data Sources:  
Percent Slope developed with USGS 10m DEM  
Base Data: Ada County, Idaho Department  
of Water Resources



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## FIGURE X - X

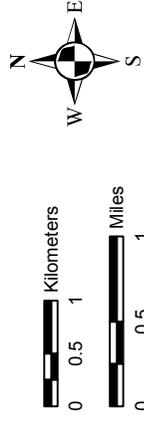
### Wildfire Hazard Planning Areas



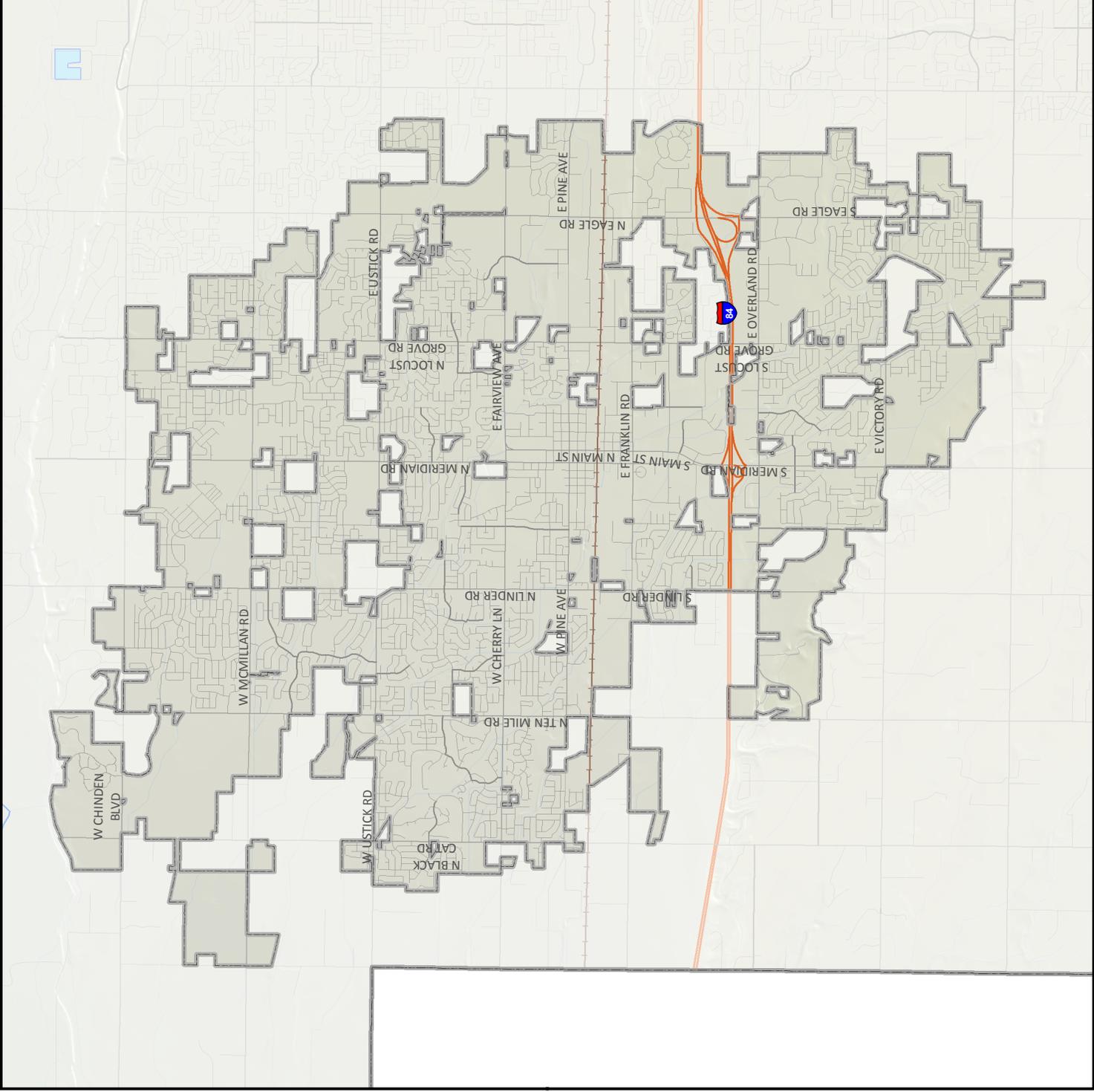
Wildfire Planning Area

Data Sources:

Ada County  
Base Data: Ada County, Idaho Department  
of Water Resources



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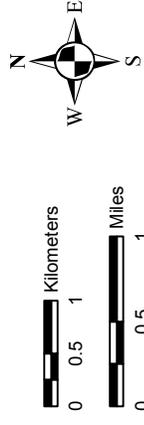
# CITY OF MERIDIAN

## FIGURE X - X Relative Risk to Communities from Wildland Fire

### Relative Wildland Fire Risk

- Low
- Low-Moderate
- Moderate
- Moderate-High
- High

Data Sources:  
Idaho Bureau of Land Management  
Base Data: Ada County, Idaho Department  
of Water Resources



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