CLOVIS UNIFIED SCHOOL DISTRICT

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1450 Herndon Avenue · Clovis, California 93611 · 559-327-9000

CLOVIS UNIFIED SCHOOL DISTRICT

PRE-DISASTER MITIGATION PLAN

PRE-DISASTER MITIGATION PLANNING COMMITTEE

November 1, 2008

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Acknowledgements

Clovis Unified School District
Pre-Disaster Mitigation Planning Committee
1450 Herndon Ave.
Clovis, CA 93611

http://www.cusd.com/pdmpc/

Clovis Unified School District Governing Board

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Dr. Jim Van Volkinburg, Clerk
Sandra A. Bengel, Member
Richard Lake, C.P.A., Member
Ginny L. Hovsepian, Member
Susan M. Walker, D.H. Sc., Member

Pre-Disaster Mitigation Planning Committee Members

CUSD Staff

Steve Adams	Assistant Director	Assessment & Demographics
Kelly Avants	Director	Communications & Board Relations
Greg Bass	Director	Student Services & School Attendance
Joe Bjerke	Director	Transportation
Walt Byrd	Assistant Superintendent	Facility Services
Fred Capshew	Director Plant Operations	Classified Management
Stacy Dunnicliff	Administrator	Clovis Adult Education
Jeanne Hatfield	Principal	Secondary Administrator
Michael Johnston	Asst. Superintendent, Business Services	District Support Staff
Michael Olenchalk	Director	Sierra Outdoor School
Carol Padilla	Director	Nursing Services
Megan Poindexter	Student/Member	Student Board
John Poytress	Manager	Maintenance Dept
Tracy Smith	Principal-Woods ES	Principal-Elementary School
Scott Steele	Principal-Clark Intermediate	Principal-Intermediate School
Steve Weil	Assistant Superintendent	Education Services

Community Members

Rainer Streib	Emergency Preparedness Officer	Fresno Fire Dept
Steve White	City Engineer	City of Clovis
Chad Fitzgerald	Disaster Services Supervisor	Clovis Fire Department
Jose Flores	Member	Clovis City Council
Wayne Fox	Assistant Emergency Services Coordinator	Fresno County
Terri Prichard	Safety Consultant	Prichard Safety & Health

Mission Statement

The mission of the Clovis Unified School District's Pre-Disaster Hazard Mitigation Plan is to identify the District's vulnerability to natural hazards in order to make recommendations to protect students, staff, facilities, infrastructure, school properties, and the natural environment; therefore sustaining the educational mission of the District.

Plan Organization

Each section of the mitigation plan provides information and resources to assist people in understanding the District and the hazard related issues facing staff, students, citizens and the environment. Combined, the sections of the plan work together to create a document that guides the CUSD Pre-Disaster Mitigation Plan mission to reduce risk and prevent loss from future hazard events.

The mitigation plan is organized as follows:

Section 1: Introduction
The Introduction describes the background and purpose of developing the mitigation plan and the planning process.

Section 2: Risk Assessment
This section provides information on hazard identification, vulnerability and risk associated with hazards in Clovis Unified School District.

Section 3: Asset Inventory for Clovis Unified School District
This section presents the history, geography, demographics, and socioeconomics of Clovis Unified School District. In this section and applicable appendices, each school within the District is profiled in detail.

Section 4: Goals, Objectives, and Mitigation Strategies
This section provides information on the plan goals and strategies that address the hazards identified.

Section 5: Adoption and Implementation of the Plan
This section provides information on plan implementation, monitoring and evaluation and public involvement during the creation of the plan and details for future public involvement.

Introduction

Located halfway between Los Angeles and San Francisco, the Fresno/Clovis area lies at the foot of the Sierra Nevada mountains in the geographical and economic heart of the agriculture-rich San Joaquin Valley.

The Clovis Unified School District is a K-12 public school system that serves the cities of Clovis and Fresno, some unincorporated areas of Fresno County, and the rural community of Friant. The District covers approximately 198-square miles, and has a student population approaching 38,000.

The Federal Disaster Mitigation Act of 2000 requires local jurisdictions and non-profit agencies eligible for FEMA disaster mitigation funding to develop, approve, and maintain a Hazard Mitigation Plan. The Clovis Unified School District is required to adopt a federally approved District Hazard Mitigation Plan to be eligible for certain disaster assistance and mitigation funding. The overall goal of the Clovis Unified School District's Pre-Disaster Mitigation Plan is to reduce or prevent injury and damage from natural hazards by addressing those potential events having the most significant risk to the CUSD community. The Plan provides a historical perspective combined with specific hazard information, programs currently in place to address hazard mitigation, and prioritizes additional mitigation activities to be adopted by the Clovis Unified School District.

The Clovis Unified School District Pre-Disaster Hazard Mitigation Plan is a dynamic document, subject to review and update. Disaster mitigation planning by the Clovis Unified School district reflects constantly changing conditions. The Plan will be improved by reviewing and incorporating updated mitigation strategy information, CUSD facility changes and improvements, and integrating improved local planning activities. The CUSD Pre-Disaster Mitigation Plan will be reviewed annually, in August of each year for 5 years. After 5 years, an updated and amended plan will be created. See Section 4.2 for additional review and plan update information.

Pre-Disaster Hazard Mitigation Planning Goals

1. Document the hazard mitigation planning process.
2. Describe the historical hazards affecting the community.
3. Develop a Risk Index Value for potential hazard events.
4. Identify district assets and the potential loss as a result of a specific hazard event.
5. Describe the strategies of mitigation activities.
6. Describe the priorities for future mitigation activities.
7. Facilitate the integration of local City and County hazard mitigation planning activities into district efforts.
8. Meet State and Federal statutory and regulatory requirements.

Support for Natural Hazard Mitigation

The Clovis Unified School District recognizes that all mitigation is local, and the primary responsibility for development and implementation of risk reduction strategies and policies lies with the district. The Clovis Unified School District; however, is not alone. Partners and resources exist at the regional, state and federal levels. Numerous agencies have a role in natural hazards identification and natural hazard mitigation. Key agencies include:

- The Governor's Office of Emergency Services (OES) is responsible for disaster mitigation, preparedness, response, recovery, and the administration of federal funds after a major disaster declaration.

- The California Division of Forestry (CDF) is responsible for all aspects of wildland fire protection on private, state, and administers forest practices regulations, including landslide mitigation, on non-federal lands.

- The mission of California Geological Survey (CGS) is to provide scientific products and services about the state's geology, seismology and mineral resources including their related hazards, that affect the health, safety, and business interests of the people of California.

- The California Department of Water Resources (DWR) plans, designs, constructs, operates, and maintains the State Water Project; regulates dams, provides flood protection and assists in emergency management. It also educates the public and serves local water needs by providing technical assistance.

- The Clovis Fire Department's primary mission and highest priority is to protect the inhabitants of the City of Clovis from the adverse effects of fires, sudden medical emergencies, or exposure to dangerous conditions created by either man or nature. The CFD does this by serving the community in the most professional, courteous, and efficient manner possible.

- The scope of Fresno County Fire Protection District's public safety services includes responding to fires, medical emergencies, motor vehicle accidents, technical rescues and other life threatening or dangerous conditions as the lead agency, or in support of the agency having jurisdiction. In an effort to minimize emergency and life safety responses, the Fire District strives to maintain a comprehensive fire prevention program that includes public education, fire protection planning, fire prevention education, fire law and code enforcement, and fire suppression cost recovery. The District's desire to serve its citizens is further exemplified by participation in mutual, instant, and automatic aid agreements that allow the Fire District to receive and deliver emergency services from and to cooperating agencies.

Planning Summary

Natural hazard mitigation strategies can reduce the impact of hazard events in the Clovis Unified School District community. Natural hazard mitigation for the Clovis Unified School District includes developing relationships with emergency management services and the members of the CUSD community before disaster strikes and establishing mitigation strategies together. Collaboration among the public and private sector to create this mitigation plan and adopted mitigation actions will help to reduce the impacts of natural hazards.

The CUSD formed a planning team composed of representatives from local City governments, CUSD students, CUSD administrators, CUSD Staff, and the local Fire Agencies. The Pre-Disaster Mitigation Planning committee was responsible for development of the plan.

This is the Clovis Unified School District's first edition Hazard Mitigation Plan. Changes to the Robert T. Stafford Disaster Relief and Emergency Assistance Act, which provide the basis for federal assistance to state and local governments impacted by a disaster, have placed a new emphasis on local mitigation planning. Hazard Mitigation, also known as prevention before the occurrence of a disaster, is now considered to be the first step in preparing for emergencies, rather than the final step in recovery. The Disaster Mitigation Act 2000 requires state and local governments to develop hazard mitigation plans by November 2004.

In January 2006, the CUSD Board of Education approved the development of such a plan. On April 9, 2008 the Board of Education adopted the resolution approving the Pre-Disaster Mitigation Plan Draft. The Clovis Unified School District Hazard Mitigation Plan includes resources and information to assist the CUSD students, staff, District property and facilities, public and private sector organizations, and others interested in participating in planning for hazards. The mitigation plan provides a list of activities that may assist the Clovis Unified School District in reducing risk and preventing loss from future hazard events. The strategies address multi-hazard issues. This plan meets the requirements of the Disaster Mitigation Act of 2000. Upon approval of the CUSD Pre-Disaster Mitigation Plan by Cal OES and FEMA, the Clovis Unified School District will be eligible for federal mitigation funding after disasters and to apply for mitigation grants before disasters strike.

Description of the Planning Process

Clovis Unified School District utilized the process recommended by the California Office of Emergency Services (OES) to develop this Hazard Mitigation Plan. The process included the following steps, listed in the order in which they were undertaken:

1. Hazard Identification and Analysis
2. School District Vulnerability Assessment
3. Mitigation Capabilities Assessment
4. Mitigation Strategy
5. Mitigation Action Plan and Implementation Program

Step 1, the *Hazard Identification and Analysis,* describes and analyzes the natural hazards present in the Clovis Unified School District within the Cities of Clovis and Fresno and the County of Fresno that can threaten human life and damage property. It includes historical data on past hazard occurrences, and establishes hazard profiles.

Step 2, the *District Vulnerability Assessment,* was completed predominantly through investigative research along with the use of geographic information system (GIS) technology and best available data. It includes tabular and narrative descriptions on community characteristics, such as the Clovis Unified School District's geographic, economic and demographic profiles, and discusses future development trends and implications for hazard vulnerability. To graphically depict hazard vulnerability, this section also includes vulnerability assessment maps. Also included is a qualitative risk index based upon hazard frequency, magnitude and impact. Conclusions of both the quantitative and qualitative nature of risk and vulnerability form the basic foundation for concentrating and prioritizing mitigation efforts.

Step 3, the *Mitigation Capabilities Assessment,* provides a comprehensive examination of the Clovis Unified School District's capacity to implement meaningful mitigation strategies, and identifies existing opportunities for program enhancement. Capabilities addressed in this chapter include staff and organizational capability, technical capability, policy and program capability, and fiscal capability. The purpose of this assessment is to identify any existing gaps, weaknesses, or conflicts in local programs/activities that may hinder mitigation efforts, or to identify those local activities that can be built upon in establishing a successful community hazard mitigation program.

The conclusion of these three background studies results in the formation of CUSD goal statements (Step 4) and sets the stage for developing, adopting and implementing a meaningful Hazard Mitigation Strategy (Step 5) for the Clovis Unified School District. These two steps help make the Plan strategic and functional for implementation purposes, and ultimately are the "action" components of the plan. Following the completion of Step 5, CUSD concentrated on designing measures to ensure the Plan's ultimate implementation, and adopted evaluation and enhancement procedures to ensure the Plan is routinely updated.

Planning Process – Stakeholder and Planning Partners Involvement

The Plan was prepared through a coordinated effort among the participating jurisdiction and other interested agencies and parties, highlighted by a series of coordination meetings and presentations.

The planning process was facilitated by the District's Business Services Department with participation from all District departments. The Pre-Disaster Mitigation Planning Committee met every quarter for two years. The plan was developed over a 20 month period. The individual participants in the process and their specific responsibilities are briefly outlined below:

Name	Title	Responsibility	Brief Description of Tasks and Contributions
Alan K. Mok, PE, LS	Principal	Blair, Church & Flynn, Consulting Engineers	Site selection studies, Environmental Impact Reports and flood zone determinations. Also provided the site selection process and information generated from the CUSD 10 Year Facilities Master Plan. GIS Data and mapping.
Brad Powloski	Facilities and Maintenance	Clovis Unified School District	Site selection studies, Environmental Impact Reports and flood zone determinations. GIS Data and mapping.
Carol Padilla	Director	Nursing Services	Participated in the working group to develop the Risk Index Values. Developed the procedures to be followed in the Emergency and Disaster Preparedness Plan to deal with medical issues during an emergency evacuation and response to a disaster for both students and staff.
Chad Fitzgerald	Disaster Services Supervisor	Clovis Fire Department	Provided the input from the City of Fresno in terms of the response to a fire. Also assisted in the development of the fire evacuation procedures as well as the assessment of district fire response facilities, procedures, and guidelines.
Chris Allen	Manager of Custodial Services	Clovis Unified School District	Insure integration of existing Plant Operations emergency response planning procedures into the PDMP.
Fred Capshew	Director Plant Operations	Classified Management	Participated in the working group to develop the Risk Index Values. Provided all building data including fire response tools, building material and construction, roofing material. In addition, provided the information on recent losses due to extreme weather events.
Fred Grove	Facilities and Maintenance	Clovis Unified School District	Site selection studies, Environmental Impact Reports and flood zone determinations. GIS Data and mapping.
Greg Bass	Director	Student Services & School Attendance	Provided enrollment projections and attendance figures for students.
Jeanne Hatfield	Principal	Secondary Administrator	Participated in the working group to develop the Risk Index Values. Provided site and community information about High School needs during an emergency response situation or evacuation process during a declared disaster.

Name	Title	Responsibility	Brief Description of Tasks and Contributions
Joe Bjerke	Director	Transportation	Addressed the issues that involve the potential movement of students and staff during the response to a disaster or emergency evacuation. In addition, provided valuable information and data about each school site neighborhood and transportation/traffic issues.
John Poytress	Manager	Maintenance Dept	Participated in the working group to develop the Risk Index Values. Provided all building data including fire response tools, building material and construction, roofing material. In addition, provided the information on recent losses due to extreme weather events.
Jose Flores	Member	Clovis City Council	Worked to insure that the input of the community and the concerns of city government were considered and evaluated during the planning process.
Kelly Avants	Director Communications & Board Relations	Clovis Unified School District	Developed and finalized all communications with community, CUSD governing board, staff, and consultants
Megan Poindexter	Student/Member	Student Board	Provided student perspective and reported to the committee to assist in the development of student response to disaster and the process for dealing with students during a disaster or emergency evacuation.
Michael Johnston	Asst. Superintendent, Business Services	District Support Staff	Participated in the working group to develop the Risk Index Values. Provided all the valuation data and information to determine the asset value of all school buildings.
Michael Olenchalk	Director	Sierra Outdoor School	Participated in the working group to develop the Risk Index Values. Provided valuable data and information on fire safety issues for school sites including vegetation and clearance concerns.
Mike Flynn	Engineer	Blair, Church & Flynn, Consulting Engineers	Site selection studies, Environmental Impact Reports and flood zone determinations. Also provided the site selection process and information generated from the CUSD 10 Facilities Master Plan.
Pat Kraft	Attendance and Accounting	Clovis Unified School District	Provided enrollment projections and student attendance data.
Rainer Streib	Emergency Preparedness Officer	Fresno Fire Department	Provided the input from the City of Fresno in terms of the response to a fire. Also assisted in the development of the fire evacuation procedures as well as the assessment of district fire response facilities, procedures, and guidelines.
Scott Odell	Principal	Paoli & Odell, Inc., School Facility, Environmental and City Planners	Site selection studies, Environmental Impact Reports and flood zone determinations. Also provided the site selection process and information generated from the CUSD 10 year Facilities Master Plan. GIS Data and mapping.
Scott Steele	Principal-Clark Intermediate	Principal-Intermediate School	Participated in the working group to develop the Risk Index Values. Provided site and community information about Intermediate School needs during an emergency response situation or evacuation process during a declared disaster. GIS Data and mapping.

Name	Title	Entity/ Department	Brief Description of Tasks and Contributions
Stacy Dunnicliff	Administrator	Clovis Adult Education	Participated in the working group to develop the Risk Index Values. Worked with the community of adult school classes to address the unique needs of the non-traditional student population during an emergency evacuation or response to a disaster.
Staff	American Appraisal Associates, Inc	Appraisal	Provided ISO Ratings, building construction type, fire suppression equipment, fire notification equipment and additional building construction information for all CUSD buildings.
Steve Adams	Assistant Director	Assessment & Demographics	Developed topographic maps and provided attendance figures. Ran the working group to develop the Risk Index Values. GIS Data and mapping.
Steve Weil	Assistant Superintendent	Education Services	Participated in the working group to develop the Risk Index Values. Determined how the Pre-Disaster Mitigation Plan would mesh with the CUSD Comprehensive Safe School Plan and the CUSD Emergency and Disaster Preparedness Plan.
Steve White	City Engineer	City of Clovis	Provided valuable data and information in the assessment of hazards to school facilities, including flood, fire, and extreme weather events.
Terry Bradley	District Superintendent	Clovis Unified School District	Leadership and direction in all aspects of plan development and implementation.
Tracy Smith	Principal-Woods ES	Principal-Elementary School	Participated in the working group to develop the Risk Index Values. Provided site and community information about Elementary School needs during an emergency response situation or evacuation process during a declared disaster.
Walt Byrd	Assistant Superintendent	Facility Services	Participated in the working group to develop the Risk Index Values. Determined how the Pre-Disaster Mitigation Plan would mesh with the CUSD Comprehensive Safe School Plan and the CUSD Emergency and Disaster Preparedness Plan.
Wayne Fox	Assistant Emergency Services Coordinator	Fresno County	Determined the process and procedures to be followed to insure compatibility between the Fresno County Emergency Services planning process and the process of the CUSD pre-disaster mitigation plan.

In addition, an extensive effort was made to solicit public input during the planning process and public meetings were held during the formation of the plan.

- The plan section drafts have been available for comment through the Planning Committee Website at **http://www.cusd.com/pdmpc/** where citizens could also access and provide input. Feedback received from the public proved valuable in the development of the plan.

- Updates on the plan development process and plan activities were described and published in the Clovis Unified School District's newspaper, *CUSD Today*. In addition, informational pamphlets were developed and made available at every school site in the district.

- The Steering Committee was chosen to create the form and substance of the plan as well as to provide imperative feedback, guidance, and approval. This Steering Committee drafted the Mission Statement, Plan Goals, identified the hazards list, and developed and approved the plan and strategies. These were published in the CUSD Today and drafted into an informational pamphlet, and used in letters that were sent out to students, residents, local businesses, Clovis and Fresno Governmental agencies, the American Red Cross and other community groups to encourage participation in the process.

- Public Meetings were organized with the intent of gathering more public input and generating public involvement. However, most of these public meetings were not well attended.

Solicitation for Community Involvement

An example brochure used to solicit community involvement appears on the next page.

Mission

The mission of the Clovis Unified School District ' s Pre-Disaster Hazard Mitigation Plan is to identify the District ' s vulnerability to natural hazards in order to make recommendations to protect students, staff, facilities, infrastructure, school properties, and the natural environment; therefore sustaining the educational mission of the District.

Effective planning requires involving CUSD staff, Public Agencies, Students, and Parents.

Clovis Unified School District Pre-Disaster Mitigation Planning Committee:

Name of Member/Title	*Representing*
Steve Weil	Education Services
Greg Bass	Student Services & School Attendance
Kelly Avants	Communications & Board Relations
Fred Capshew	Plant Operations
Walt Byrd	Facility Services
John Poytress	Maintenance Dept.
Michael Johnston	Business Services
Steve Adams	Energy Management-Boundary Planning
Chad Fitzgerald	Clovis Fire Department
Rainer Streib	Fresno Fire Department
Megan Poindexter	Student Board
Jose Flores	Clovis City Council
Michael Olenchalk	Director, Sierra Outdoor School
Carol Padilla	CUSD Nursing Services
Steve White	Clovis City Manager
Rhonda Turner	Transportation Services
Jeanne Hatfield	Principal-High School
Scott Steele	Principal-Intermediate School
Tracy Smith	Principal- Elementary School
Stacy Dunnicliff	Adult Education
Wayne Fox	Fresno County-Office of

Terry Bradley, Ed.D.
Superintendent
Clovis Unified School District

CLOVIS UNIFIED SCHOOL DISTRICT

Pre-Disaster Mitigation Planning Committee

Planning for Safety!

The CUSD Community

The Clovis Unified School District lies in the heart of the agriculturally rich San Joaquin Valley, halfway between Los Angeles and San Francisco. Encompassing approximately 200 square miles, the District serves students from the City of Clovis, portions of the City of Fresno, the County of Fresno, and the rural community of Friant. This rapidly growing region enjoys affordable housing, warm summers, and mild winters. Clovis Unified School District serves the residents of the City of Clovis, City of Fresno, and the unincorporated areas of the County of Fresno adjacent to Clovis and Fresno.

CUSD is committed to educating children in mind, body and spirit,

Protecting CUSD Students, Staff, Facilities and the Community is a primary goal of the Pre-Disaster Mitigation Planning Process.

Planning for Disaster

The Disaster Mitigation Plan for Clovis Unified School District will apply consistent methodologies to comply with and fold into the State of California's Multi-Hazard Mitigation Plan. Every community in the State of California will be better served when the planning for disasters is structured to compliment the overall process. The CUSD plan will be developed in accordance with the California plan and will supplement the more global view with an enhanced local perspective.

The CUSD Plan will coordinate with the State of California Multi-Hazard Mitigation Plan

Hazard Types

Natural Disasters come in many forms:

- Drought
- Fire
- Flood
- Earthquake
- Windstorms
- Dam/Levee Break

Natural Hazards are inevitable. Floods, hurricanes, tornadoes, earthquakes, wildfires and other hazardous events are normal occurrences in the natural environment. Disasters, however, occur when human activity (e.g., farming) and the built environment (e.g., structures) intersect with natural and human created hazards.

Although many hazards (natural and man-made) cannot themselves be managed, many disasters can be avoided or mitigated. The course of magnitude of a flood cannot be managed but the characteristics of the built environment that will be subject to that flood can be managed.

Clovis Unified School District believes the task of the district and its employees, and the purpose of a hazard mitigation plan, is to eliminate the impact of natural hazards on human activity and the built environment of the district.

An important benefit of hazard mitigation is that dollars spent on mitigation will significantly reduce the demand for large amounts of future dollars once disaster strikes. In addition, planning will reduce the economic disaster which often accompanies any hazard event through destruction of property, loss or interruption of educating our children, and the interruption of services to the Clovis Unified School District and the surrounding community.

WANT TO BECOME INVOLVED?

Contact Michael Johnston
Assistant Superintendent of Business Services
Office 559-327-9127 Fax 559-327-9129

MichaelJohnston@cusd.com

Additional Stakeholder and Planning Partner Contribution

Additionally the CUSD worked closely with the City of Clovis, City of Fresno, Clovis Fire Department and the County of Fresno, most notably with the Office of Emergency Management and several other departments which shared vital information and resources for completion of the plan.

There are many stakeholders involved in the process that are responsible for different aspects of the PDMP development. These stakeholders include:

Stakeholder	Contribution	Actively Involved
Alliance of Schools for Cooperative Insurance Programs	Property Insurance JPA for the Clovis Unified School District. Provided training, support and information for the Pre-Disaster Mitigation Plan development as well as the building appraisal. Provided resources to insure district compliance with regulations governing facilities.	Yes
American Red Cross	The local Fresno-Madera Counties Chapter of the American Red Cross responds immediately to disasters, including, floods, earthquakes, tornadoes, hazardous materials spills, transportation accidents, explosions, and other natural and man-made disasters. The American Red Cross is not a government agency; however, was chartered by Congress to "carry on a system of national and international relief in time of peace and apply the same in mitigating the sufferings caused by pestilence, famine, fire, floods, and other great national calamities, and to devise and carry on measures for preventing the same." The local chapter provided guidelines and resources for employee training, risk assessment, developing emergency response priorities and community integration into the planning process.	Yes
California Department of Education	Developed Education Code and resource for information used to develop this Pre-Disaster Mitigation Plan as well as the Comprehensive Safe School Plan, and the Emergency and Disaster Preparedness Plan.	
California Department of General Services	The Department of General Services under the police power of the state shall supervise the design and construction of any school building or the reconstruction or alteration of or addition to any school building.	
California Department of the State Architect	Compliance for the building of schools in California is required by the Division of State Architect (“DSA”). The DSA is the jurisdictional authority within California that oversees the construction of public schools.	Yes
City of Clovis	Hazard Assessment and Response guidelines and procedures. Integration into the development of the Comprehensive Safe School Plan.	Yes
Clovis Fire Department	Hazard Assessment and Response guidelines and procedures. Emergency and Disaster Preparedness Plan integration.	Yes
County of Fresno	Hazard Assessment and Response guidelines and procedures. Provided all Emergency Management Guidelines	Yes

Comments that were received were documented, posted on the website, and responded to for clarification whenever necessary.

All input and comment provided by stakeholders and other interested parties were compiled and presented to the PDMP Steering Committee and the team members working to compile the plan. While not many comments or suggestions were submitted during the process, those that were submitted were reviewed and incorporated into appropriate sections of the plan.

PDM Integration with Existing CUSD Plans

Two very important documents were utilized and incorporated into the development process of the PDM plan.

1. Comprehensive Safe School Plan

SB 187 requires that each school within a district over 2,501 ADA, develop a Safe School Plan. This plan should include:

- Assessment of school crimes committed on school campuses and at school related functions.
- Identification of appropriate strategies and programs that will provide or maintain a high level of school safety and address the schools' procedures for complying with existing laws related to school safety. These strategies include:
  - Child Abuse Reporting Procedures.
  - Disaster Procedures.
  - School Discipline Policies.
  - Procedures To Notify Teachers Of Dangerous Pupils.
  - Sexual Harassment Policy.
  - School Wide Dress Code.
  - Procedures For Safe Ingress And Egress Of Pupils, Parents And School Employees To And From School.
  - Programs And Strategies To Provide A Safe And Orderly Environment.

The plan must be evaluated and amended, as needed, at least once per year.

2. CUSD Emergency and Disaster Preparedness Plan

School administrators have the responsibility to ensure the safety of their students and staff in an emergency, whether it's an earthquake, a flood, or a terrorism incident. Developing emergency plans and training staff in emergency response procedures is required by law.

The Katz Act [Sections 35295-35297 of the *California Education Code*] requires that schools plan for earthquakes and other emergencies.

The Petris Bill [Section 8607 of the *California Government Code*] requires that school districts be prepared to respond to emergencies using the Standardized Emergency Management System (SEMS). This necessitates that the principles of SEMS be incorporated in plans, that all school personnel be trained in how the system works, and that schools have drills and exercises in order to practice using the system.

Earthquake Preparedness

In 1984 the state legislature passed the Katz Act to require that schools establish an earthquake emergency system. This law [Sections 35295-35297 of the *Education Code*] applies to the governing boards of public and/or private elementary and high schools that have school buildings with over 50 students or more than one classroom, and to all county school superintendents. In 1988, the legislature amended the law to require that training in earthquake preparedness procedures should be for both certificated and classified staff. In compliance with the requirements of the law, CUSD developed the following:

A disaster plan – district and site specific - to maintain the safety and care of students and staff. The plan outlines emergency roles, procedures for students and staff, and appropriate, ongoing training for all employees and students.

- Conducts periodic drills in the "drop and cover" procedure, the evacuation procedure, and other emergency response actions (such as search and rescue, communications, and damage assessment) to train students and staff. Simple drills should be held once a quarter in elementary schools and once a semester in secondary schools; more complicated drills should be held once or twice a year.
- Provides training programs to ensure that staff and students are aware of, and properly trained to follow, your plan and the emergency response procedures.
- Is prepared to have the school site serve as a possible public shelter for the community during disasters or emergencies.
- Takes mitigation measures now to ensure the safety of students and staff, and the viability of the school facility during and after an earthquake or other emergency.

Emergency Response

As a result of the 1991 East Bay Hills fire, the Petris Bill was passed to improve emergency response in California. Effective January 1, 1993, Section 8607 of the *California Government Code* requires that state and local governments, and special districts such as schools, respond to disasters using the Standardized Emergency Management System (SEMS). By December of 1996, each responding organization must use SEMS or risk losing state assistance funds for emergency response-related personnel costs. Using SEMS also includes planning, training, and exercising [*California Code of Regulation* î2400-2450].

CUSD complies with the SEMS requirement that each organization understands and uses the following:

- The Incident Command System, a method of organizing any emergency response effort into five basic functions: command, planning/intelligence, operations, logistics, and finance/administration.
- An Emergency Operations Center (or Incident Command Post in the field), the staff of which is organized according to the same five functions as the Incident Command System.
- Coordination of the school district Emergency Operations Center with the Operational Area (county) Emergency Operations Center, or with city Emergency Operations Centers and/or county Offices of Education, as needed. .
- Incorporation of SEMS into all school plans, training, and exercises.
- Documentation of the use of SEMS in planning, training, exercising, and during an actual emergency

Disaster Service Workers

California Government Code Section 3100 declares that public employees are disaster service workers, subject to such disaster service activities as may be assigned to them by their superiors or by law. The term public employees include all persons employed by the state or any county, city, city and county, state agency or public district, excluding aliens legally employed. This law applies to public school employees in the following cases: 1) when a local emergency has been proclaimed, 2) when a state emergency has been proclaimed, or 3) when a federal disaster declaration has been made.

CUSD employees may be pressed into service as Disaster Service Workers by their superiors, and may be asked to do jobs other than their usual duties for periods of time exceeding their normal working hours. CUSD Emergency and Disaster Preparedness Plan elements comply with the requirements in both the Educational Code and the Government Code.

Post-Disaster Shelters
Schools are required by both federal statute and state regulation to be available for shelters following a disaster. The American Red Cross has access to schools in damaged areas to set up their mass care facilities, and local governments have a right to use schools for the same purposes. This requires close cooperation between school officials and ARC or local government representatives, and has been planned and arranged for in advance. CUSD used the *Schools as Shelters: Planning and Management Guidelines for Districts and Sites*; from the California OES as a guide.

Clovis Unified School District Plant Operations Emergency Procedures Response Plan

This plan has been developed to assist the Maintenance and Operations Department is utilized effectively to deal with both site specific events as well as CUSD district-wide events.
The objectives of this existing plan are:

- To ensure Emergency Response Procedures meet both the moral and legal responsibilities of the Clovis Unified School District to the students, staff, and citizens of the district.
- To provide effective actions to minimize injuries and loss of life among students and school personnel in case of natural and man-made disaster during school hours.
- To provide for the maximum utilization of school personnel and facilities to care for disaster victims.
- To protect school property.

The Clovis Unified School District Plant Operations Emergency Procedures Response Plan:

- Provides a basis for the conduct and coordination of school operations and management during emergencies natural and man-made.
- Establish esan understanding of the authority, responsibilities, functions, and operations during periods of emergencies.
- Provides a basis for inclusion of district resources into the county/state emergency organization to meet unforeseeable emergency requirements.

In addition, the following existing plans, studies, and reports were reviewed and appropriate information incorporated into the CUSD Pre-Disaster Mitigation Plan.

1. *City of Clovis-Local Hazard Mitigation Plan*
2. City of *Clovis General Plan Draft Environmental Impact Report*. December 1992.
3. *Dam Failure Evacuation Plan* for the County of Fresno
4. Envicom Corporation Technical Report for the *Five County Seismic Safety Element: Fresno, Kings, Madera, Mariposa, and Tulare Counties.* April 1974.
5. *Fresno County General Plan Update: February 2000.*
6. *Revised Public Review Draft Background Report of the Fresno County General Plan Update*
7. *State of California Multi Hazard Mitigation Plan.* July 2004
8. *State of California Multi-Hazard Mitigation* Plan 2007
9. U.S. Government. Federal Emergency Management Agency. *Flood Insurance Study Fresno County, California, Unincorporated Areas.* October 1996.

The district has developed additional plans, guidelines and procedures that determine the construction, maintenance and development of school sites and school buildings. These plans were used in the process and sections incorporated into the Pre-Disaster Mitigation Plan. These plans include:

- Fourth Educational Center Site Selection Study (Revised), Paoli & Odell, Inc., School Facility, Environmental and City Planners and Blair, Church & Flynn Consulting Engineers

- CUSD Facilities 10-year Master Plan, 2007-2017 Paoli & Odell, Inc., School Facility, Environmental and City Planners and Blair,

- Environmental Impact Report, Fourth Educational Center Project State Clearinghouse No. 2005101054, Paoli & Odell, Inc., School Facility, Environmental and City Planners, April 2008

Federal Laws

Federal legislation has historically provided funding for disaster relief, recovery, and some hazard mitigation planning. The Disaster Mitigation Act of 2000 (DMA 2000) is the latest legislation to improve this planning process (Public Law 106-390). The new legislation reinforces the importance of mitigation planning and emphasizes planning for disasters before they occur. As such, DMA 2000 establishes a pre-disaster hazard mitigation program and new requirements for the national post-disaster Hazard Mitigation Grant Program (HMGP). Section 322 of DMA 2000 specifically addresses mitigation planning at the state and local levels. It identifies new requirements that allow HMGP funds to be used for planning activities, and increases the amount of HMGP funds available to states that have developed a comprehensive, enhanced mitigation plan prior to a disaster. States and communities must have an approved mitigation plan in place prior to receiving post-disaster HMGP funds. Local and tribal mitigation plans must demonstrate that their proposed mitigation measures are based on a sound planning process that accounts for the risk to and the capabilities of the individual communities.

FEMA prepared an Interim Final Rule, published in the Federal Register on February 26, 2002 (44 CFRParts 201 and 206), which establishes planning and funding criteria for states and local communities. The Plan has been prepared to meet FEMA and Cal OES requirements thus making the District eligible for funding and technical assistance from state and federal hazard mitigation programs.

State Laws

Compliance for the building of schools in California is required by the Division of State Architect ("DSA"). The DSA is the jurisdictional authority within California that oversees the construction of public schools.

The Field Act establishes minimum structural standards for the design and construction of K-12 school buildings. Under the Field Act, school buildings are required to be built to more stringent seismic safety requirements than standard buildings, and are subject to review by the DSA, as well as rigorous inspections throughout the construction process.

California Education Code Section 17280-17317 details the requirements of school construction in California. The Department of General Services under the police power of the state shall supervise the design and construction of any school building or the reconstruction or alteration of or addition to any school building.

California Education Code Section 17251-17255 details the requirements for school site acquisition requirements. The Governing Board of the school district must choose school sites that are free from

obvious hazards and areas were the safety, reduction of traffic hazards, and conformity of the land use element in accordance with the City's general plan are taken into consideration.

California Education Code Section 17350-17360 addresses the rules for construction and installation of factory built school buildings not over 1,000 square feet in area. The DGS has adopted regulations for the procedures, plans, specifications, methods of construction for these buildings to insure the safety of students.

The CUSD has written Board Policy and a general practice to follow all State, Federal, and Local Regulations when designing, modernizing, maintaining, and construction of school facilities. In this respect, Clovis Unified School district has raised the bar and is recognized through several organizations including California Association of School Business Officials (CASBO) and the Coalition for Adequate School Housing (CASH) as a leader in the area of providing compliant safe school facilities.

California has many additional laws and programs relating to hazard mitigation, the most effective of which include:

- California Earthquake Hazards Reduction Act of 1986
- California Fire Alliance
- California Earthquake Authority's Seismic Retrofit Program
- NFIP, administered by the DWR
- State planning law and OPR's general plan guidance documents

The following are additional California State laws and Executive Orders related to hazard mitigation:

- Executive Order W-18-19
- Executive Order W-9-91
- Health & Safety Code §19211
- Health & Safety Code §19181.
- Public Resources Code §2621, et seq. (the Alquist-Priolo Earthquake Fault Zoning Act)
- Government Code Section 8870-8870.95
- Government Code Section 8876.1-8876.10
- Public Resources Code Section 2800-2804.6
- Public Resources Code Section 2810-2815
- Health and Safety Code Section 16100-16110
- Government Code Section 8871-8871.5
- Health and Safety Code Section 130000-130025
- Public Resources Code Section 2805-2808
- Government Code Section 8899.10-8899.16
- Government Code Section 8878.50-8878.52 8878.50.
- Rehabilitation Bond Act of 1990.
- Education Code Section 35295-35297 35295.
- Health and Safety Code Section 19160-19169

Local County Ordinances

The County of Fresno has laws and programs that effect hazard mitigation planning. The corresponding applicable Title and Chapter are listed below.

Title 2 Administration
- Chapter 2.09 Information Technology Services Department
- Chapter 2.40 Safety Commission
- Chapter 2.44 Emergency Organization

Title 8 Health And Safety
- Chapter 8.28 Industrial Wastes
- Chapter 8.32 Combustible Substances and Smoking Restrictions
- Chapter 8.44 Emergency Ambulance and Mobile Intensive Care Unit Services
- Chapter 8.60 Storage of Hazardous Substances in Underground Tanks
- Chapter 8.70 Health Authority

Title 15. Buildings And Construction
- Chapter 15.08 Building Code
- Chapter 15.10 Fire Code
- Chapter 15.44 Underground Utility District
- Chapter 15.48 Flood Hazard Areas
- Chapter 15.60 California Department of Forestry State Responsibility Area Fire Safe Regulations of The County

Title 17 Divisions Of Land
- Chapter 17.16 Areas of Influence
- Chapter 17.20 Maps--Generally
- Chapter 17.24 Preliminary Maps
- Chapter 17.28 Tentative Maps
- Chapter 17.44 Surveys
- Chapter 17.48 Design and Improvement Standards
- Chapter 17.64 Drainage of Land
- Chapter 17.68 Street And Utility Improvements
- Chapter 17.72 Parcel Maps
- Chapter 17.74 Merger Ordinance
- Chapter 17.76 Dedications of Land and Fees for Interim School Facilities

The Clovis Unified School District has Board Policy to comply with all state, local, and federal regulations that apply to school construction. The CUSD employs a department of Facilities staff with expertise in the area of developing school facilities beginning with site selection through to the final school construction. In addition, the district works closely with each community at the neighborhood and government level to ensure that schools are built to the highest safety standards.

Loss Prevention Survey

In addition to all the existing CUSD plans, regulations, and guidelines that are followed, the Clovis Unified School District arranges for a third party to perform a full site inspection of each and every building and facility occupied by students, staff, or by community groups. This Loss Prevention Survey (LPS) is conducted every four years and is used to assist the district in the identification of hazards. The overall goal is to aid in the mitigation of hazards and reduce the extent of any damage or injury that may occur. This LPS process is used as a guide for the Maintenance, Operation, and Facility departments to work to continually provide safe working conditions for all occupants.

Each site inspection is approached with the intent of identifying areas which are out of compliance with applicable laws, and regulations. Federal and State of California Occupational Safety and Health Act (OSHA) regulations, Environmental Protection Agency (EPA) regulations, and appropriate standards of safety and health are used as guidelines in identifying unsafe or unhealthful conditions.

1. Risk Assessment

The purpose of Risk Assessment is to provide the factual basis for the mitigation initiatives which are to be proposed in the Clovis Unified School District's Pre-Disaster Mitigation Plan. Hazard specific information on the six most likely hazards is addressed in the plan. Each of these sections provides information on the background and history of the hazard, hazard causes and characteristics, a risk assessment as well as the economic and social impacts of the hazard. Various District data and maps are used to provide background and context for the narrative.

These sections were composed with significant information provided by the City Clovis, City of Fresno, and the County of Fresno. The Cities and County and the District collaborated on the entire plan. The CUSD utilized a wealth of hazard information and analysis provided by the County of Fresno which was not readily available at the District. The County of Fresno has land surveys, seismic analysis, flood maps and various other resources that the District is not equipped to conduct or obtain. We thank the City very much for their efforts and assistance in creating the CUSD Pre-Disaster Mitigation Plan.

The federal criteria for Risk Assessment includes:

- Identifying hazards - describe the type of natural hazard most likely to affect CUSD.
- Profile hazard events - describe the location and extent of the natural hazard, including information on previous occurrences.
- Assessing vulnerability - provide information on the impact of the hazard on the CUSD by identifying assets and estimating potential losses.

Included here are:

- Hazard identification and information,
- State federal disaster declarations,
- Hazard area maps,
- Hazard analysis definitions, and
- Vulnerability assessment data tables

1.1 Disaster Declarations

There have been 257 State declared disasters and 152 Federal declared disasters from 1950 to May 2007 in California. According the California Office of Emergency Services these events have resulted in 1,203 deaths, 24,558 injuries and have cost an estimated $19,333,999,861. Fresno County, the City of Clovis, and thus, facilities of the Clovis Unified School District, are susceptible to a variety of natural hazards. The number of Federal Disaster Declarations affecting Fresno County gives some idea of the risk natural hazards pose to the Clovis Unified School District.

As of January 2007, Fresno County has had 24 State and/or Federal declared disasters since 1950.

Table 1.0 lists Federal Disaster Declarations which have included Fresno County between 1950-2007. Map 1.0 depicts the State of Emergency Declarations for the State by County from 1950-2004

Table 1.0 California Disasters Involving Fresno County 1950-2007

Hazard Type	Disaster Name	Disaster #	Year	Counties and Cities Declared	State Declaration	Federal Declaration	# of Deaths	# of Injuries	Cost of Damage
Flood	Floods	OCD 50-01	1950	Statewide	11/21/1950	Not declared	9		$32,183,000
Flood	Floods	DR-47	1955	Statewide	12/22/1955	12/23/1955	74		$200,000,000
Flood	Storm & Flood Damage	N/A	1958	Statewide	4/2/1958	82	13		$24,000,000
Severe Storm, Flood	Abnormally Heavy and Continuous Rainfall	N/A	1963	Northern California (boundaries of San Luis Obispo, Ventura, Los Angeles, and San Bernardino counties to the Oregon State Line	2/14/1964	Not declared			Not Available
Flood	1969 Storms	Unknown	1969	Los Angeles, San Luis Obispo, Fresno, Inyo, Riverside, San Bernardino, Santa Barbara, Tulare, Ventura, Amador, El Dorado, Kern, Kings, Madera, Modoc, Mono, Monterey, Orange, Placer, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Tuolumne, Mariposa.	1/23/69, 1/25,69, 1/28/69, 1/29/69, 2/8/69, 2/10/69, 2/16/69, 3/12/69	1/26/1969	47	161	$300,000,000
Fire	Large Fire	N/A	1970	City of Sonora, Tuolumne	2/26/1970	Not declared			$2,300,000
Severe Storm, Freeze	Freeze and Severe Weather Conditions	N/A	1972	Fresno, Kings, Tulare, Merced, Kern, Madera, San Benito, Stanislaus, El Dorado, Tehama, Placer, Nevada, San Joaquin, Colusa, Siskiyou, Modoc, Santa Clara	4/17/72, 5/22/72, 5/22/72, 5/31/72	Not declared			$111,517,260
Drought	Drought	N/A	1976	Alpine, Calaveras, Colusa, Fresno, Glenn, Madera, Merced, San Diego, San Joaquin, Solano, Stanislaus, Sutter, Tuolumne, Alameda, Butte, Contra Costa, Kings, Los Angeles, Riverside, San Luis Obispo, Tulare, Yolo, Amador, Monterey, Napa, Nevada, San Benito.	2/9/76, 2/13,76, 2/24/76, 3/26/76, 7/6/76	Not declared			$2,664,000,000
Flood, Severe Storm	1982-83 Winter Storms	DR-677	1982	Contra Costa, San Joaquin, Sacramento, Marin, San Mateo, Los Angeles, San Diego, Alameda, Orange, San Benito, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Sonoma, Ventura, Trinity, Colusa, Lake, Mendocino, Monterey, San Luis Obispo, Solano, Yolo, Butte	1982, 1983	2/9/1983	0	0	$523,617,032
Agricultural	Rains Causing Agricultural Losses	N/A	1982	Fresno, Madera, Merced, Monterey, Kern, Tulare, Sacramento, San Joaquin, Solano, Stanislaus, Yolo	10/26/1982	Not declared			$345,195,974

Table 1.0 California Disasters Involving Fresno County 1950-2007

Agricultural	Rains Causing Agricultural Losses	N/A	1982	Fresno, Madera, Merced, Monterey, Kern, Tulare, Sacramento, San Joaquin, Solano, Stanislaus, Yolo	10/26/1982	Not declared			$345,195,974
Flood	Winter Storms	Unknown	1982	Contra Costa, San Joaquin, Sacramento, Marin, San Mateo, Los Angeles, San Diego, Alameda, orange, San Benito, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Sonoma, Ventura, Trinity, Colusa, Lake, Mendocino, Monterey, San Luis Obispo, Solano, Yolo, Butte.	12/8/82-3/21/83	2/9/1983			$523,617,032
Earthquake	Coalinga Earthquake	DR-682	1983	Fresno	5/2/1983	5/3/1983	0	47	$31,076,300
Severe Storm	Storms	DR-758	1986	Humboldt, Napa, Sonoma, Glenn, Lake, Marin, Modoc, Sacramento, Santa Clara, Santa Cruz, Solano, Yuba, Alpine, Amador, Butte, Calaveras, Colusa, El Dorado, Lassen, Mendocino, Nevada, Placer, Plumas, San Joaquin, Sierra, Sutter, Tehama, Tuolumne, Yolo, Fresno	2/18-86 - 3/12/86	2/18/1986	13		$407,538,904
Fire	Wildland Fires	N/A	1987	Colusa, Del Norte, Butte, Fresno, Humboldt, Inyo, Kern, Lake, Lassen, Mariposa, Mendocino, Modoc, Mono, Nevada, Placer, Plumas, Riverside, San Bernardino, Shasta, Sierra, Siskiyou, Trinity, Tulare, Tuolumne	9/10/87, 9/3/87	Not declared	3	76	$18,000,000
Freeze	1990 Freeze	DR-894	1990	Santa Cruz, Fresno, Glenn, Imperial, Kern, Mendocino, Monterey, Riverside, San Benito, San Bernardino, San Diego, San Mateo, Santa Barbara, Santa Clara, Solano, Sonoma, Tulare, Ventura, Alameda, Butte, Colusa, Los Angeles, Madera, Marin, Merced, Napa.	12/19/90-1/18/1991	2/11/1991			$856,329,675
Flood	1995 Late Winter	DR-1046	1995	All counties except Del Norte	3/12/1995	1/10/1995	17		$132,040,111

Table 1.0 California Disasters Involving Fresno County 1950-2007

Flood	**1995 Severe Winter Storms**	**DR-1044**	**1995**	**Los Angeles, Orange, Humboldt, Lake, Sonoma, Butte, Colusa, Contra Costa, Del Norte, Glenn, Kern, Lassen, Mendocino, Modoc, Monterey, Napa, Placer, Plumas, San Luis Obispo, Santa Barbara, Santa Clara, Santa Cruz, Tehama, Ventura, Yolo, Yuba, Alpine, Amador**	**1/6/95 - 3/14/1995**	**1/13/1995- 1/10/2005**	**11**		**$221,948,347**
Freeze	**Freeze**	**Gp 98-02 DR-1267**	**1998**	**Fresno, Kern, Kings, Madera, Merced, Monterey, Riverside, Tulare, Ventura**	**12/29/1998**	**2/9/99**			**$17,481,385**
Flood	**1998 El Nino Floods Flood Storms**	**DR-1203**	**1998**	**Alameda, Amador, Butte, Calaveras, Colusa, Contra Costa, Fresno, Glenn, Humboldt, Kern, Kings, Lake, Los Angeles, Marin, Mendocino, Merced, Monterey, Napa, Orange, Riverside, Sacramento, San Benito, San Bernardino, San Diego, San Francisco, San Joaquin.**					
Energy	**Energy Emergency Economic Greed**	**GP-2001**	**2001**	**Statewide**	**1/1/2001**				
Economic	**Hurican Katrina Evacuations**	**EM-3248**	**2005**	**Statewide**		**9/13/2005**			**$763,576**
Flood	**2006 April Storms**	**2006-03**	**2006**	**Fresno, Kings, Mariposa, Tulare**	**4/10/06, 4/13/06**	**4/10/06, 4/13/06**			**$4,194,847**
Flood	**2005-06 Winter Storms**	**2006-01**	**2006**	**Fresno, Kings, Shasta, Tulare**	**1/12/2006**				**$1,275,237**
Freeze	**2007 Severe Freeze**	**DR-1689**	**2007**	**Fresno, Imperial, Kern, Los Angeles, Monterey, Riverside, San Bernadino, San Diego, San Luis Obispo, Santa Barbara, Tulare, Ventura**		**3/13/2007**			

Source: State of California Multi-Hazard Mitigation Plan 2007

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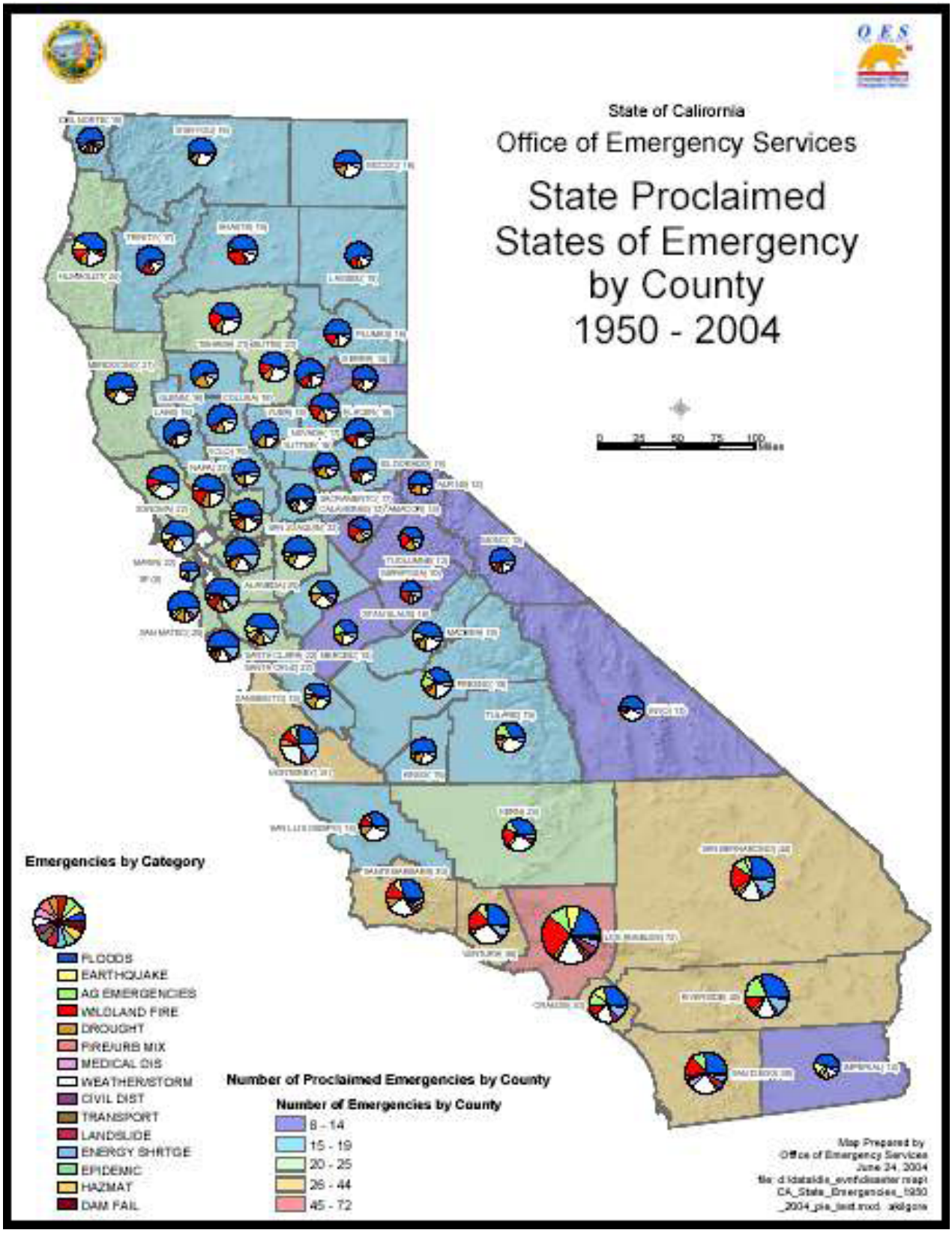
Map 1.0 State of Emergency Declarations for the State by County from 1950-2004



1.2 Hazard Analysis

To make the analysis of hazards more useful, the Clovis Unified School District's Pre-Disaster Mitigation Planning Committee established descriptors (High, Moderate, and Low) for each hazard's probability of occurrence and vulnerability and a risk rating has been assigned based on a subjective estimate of their combination.

Vulnerability: Vulnerability is a description (High, Medium, or Low) of the potential impact a hazard could have on the Clovis Unified School District. It considers the population, property, commerce, infrastructure and services at risk, relative to the entire District.

- High: The total population, property, commerce, infrastructure and services of the District are uniformly exposed to the effects of a hazard of potentially great magnitude. In a worse case scenario, there could be a disaster of major to catastrophic proportions. This is given a numeric value of 3.
- Medium: The total population, property, commerce, infrastructure, and services of the district are exposed to the effects of a hazard of moderate influence; or the total population, property, commerce, infrastructure, and services of the district are exposed to the effects of a hazard of moderate influence, but not all to the same degree; or an important segment of population, property, commerce, infrastructure and services of the district are exposed to the effects of a hazard. In a worse case scenario there could be a disaster of moderate to major, though not catastrophic, proportions. This is given a numeric value of 2.
- Low: A limited area or segment of population, property, commerce, infrastructure, or service is exposed to the effects of a hazard. In a worse case scenario, there could be a disaster of minor to moderate proportions. This is given a numeric value of 1.

Probability: Probability is a description (High, Medium, or Low) of the overall threat posed by a hazard over the next 25 years. It is a subjective estimate of the probability of occurrence.

- High: There is strong potential for a disaster during the next 25 years; or History suggests the occurrence of multiple disasters of moderate proportions during the next 25 years. This is given a numeric value of 3
- Medium: There is moderate potential for a disaster during the next 25 years. This is given a numeric value of 2.
- Low: There is little potential for a disaster during the next 25 years. This is given a numeric value of 1.

In order to determine a quantifiable risk rating for each type of disaster, the three levels have been given a numeric value and the product of the two provides a quantifiable rating.

Risk Index Value

Vulnerability x Probability = Risk Index Value for each Hazard. The range of the combined information of both Vulnerability and Risk Rating is as follows:

Low Medium High
1 2 3 4 5 6 7 8 9

The Clovis Unified School District has facilities with an exposure to the following natural hazards:

- Drought
- Earthquake
- Flood (Riverine)
- Flood (Dam Failure Inundation)
- Volcanic Hazards
- Severe Weather (Temperature Extremes, Precipitation Extremes, Severe Wind and Storms)
- Wildfire
- Landslides

For each Natural Hazard listed above, the Risk Index Value is calculated to be:

Low Medium High
1 2 3 4 5 6 7 8 9

Table 1.0 Risk Index Values for Hazard Events Affecting CUSD

Type of Hazard	Vulnerability	Probability	Vulnerability x Probability = Risk Index Value (RIV)	RIV Descriptor
Drought	2	3	6	Medium
Earthquake	3	1	3	Low
Flood (Riverine)	2	2	4	Medium
Flood (Dam Failure Inundation)	3	1	3	Low
Volcanic Hazards	2	1	2	Low
Severe Weather (Temperature Extremes, Precipitation Extremes, Severe Wind and Storms)	2	3	6	Medium
Fire	2	2	4	Medium
Landslides	1	1	1	Low

No Hazard Events scored with a Risk Index Value of 7 or higher. All Hazard Events affecting the Clovis Unified School District were calculated to be Medium or Low.

1.3 Regional Geology

Clovis lies within the Central Valley geomorphic province; a large, elongate, northwest-trending trough consisting of several thousand feet of marine and non-marine sedentary rocks derived from the erosion of the Coast Range and Sierra Nevada. Small areas of serpentinite, gabbro, and metavolcanic rock are scattered throughout the eastern portion of the City of Clovis. Maps of CUSD sites are located in *Appendix G: Clovis Unified School District – Maps.*

The U.S. Soil Conservation (SCS) divides areas for soil surveys into five general kinds of landscapes for interpretive purposes. This physiographic section includes all land in the San Joaquin Valley between the basin rim and the Sierra Nevada foothills. It consists of:

1. Excessively drained to somewhat poorly drained soils of recent alluvial fans and flood plains,
2. Somewhat excessively drained to moderately well drained soils of young alluvial fans,
3. Well-drained soils of low alluvial terraces, and
4. Well-drained soils of high alluvial terraces. Elevations generally range from 165 to 500 feet, but in places where this section extends along valleys into the foothills, the elevation ranges to 650 feet.

The Eastern Fresno area soil survey lists several general soil associations. These associations have been divided into series and these series have been further divided into soil types. A soil association is a landscape that has a distinctive proportional pattern of soils and is tied to the physiographic province. An association generally consists of one or more major soils. Clovis has four associations described in Table 1.2 General Soil Associations.

Table 1.2 General Soil Associations

Association Name	U.S. Soil Conservation Landscape Type
Hanford-Tujunga Association: Deep, well-drained to excessively drained, dominantly loamy sands to fine sandy loams.	Excessively Drained to Somewhat Poorly Drained Soils of Recent Alluvial Fans and Flood Plains.
Greenfield-Atwater Association: Well-drained loamy sands and sandy loams that are moderately deep or deep to compact sandy material, partly wind modified.	Somewhat Excessively Drained to Moderately Well-Drained Soils of Young Alluvial Fans.
San Joaquin-Exeter-Ramona: Sandy Loams to loams that are shallow or moderately deep to a hardpan and deep sandy loams and loams.	Well-Drained Soils of Low Alluvial Terraces.
Academy-Yokohl Association: Loams that are moderately deep to a compact layer and soils of similar texture that are shallow to a cemented hardpan.	Well-Drained Soils of Low Alluvial Terraces.

Source: United States Department of Agriculture Soil Conservation Service Eastern Fresno Area Soil Survey, 1971

Hazard Events

1.4 Drought

Drought is a condition of climatic dryness that is severe enough to reduce soil moisture levels and water levels below the minimum necessary for sustaining plant, animal, and human life systems.

Drought is a gradual phenomenon. One dry year does not normally constitute a drought in California, but rather serves as a reminder of the need to plan for droughts. California's extensive system of water supply infrastructure - reservoirs, groundwater basins, and interregional conveyance facilities - generally mitigates the effects of short-term dry periods for most water users.

Droughts exceeding three years are relatively rare in Northern California, the source of much of the state's water supply. The 1929-1934 drought established the criteria commonly used in designing storage capacity and yield for large Northern California reservoirs. The driest single year in California's measured hydrologic history is 1977. California's most recent multi-year drought was 1987-1992.

From November 1975 through November 1977, California experienced one of its most severe droughts. Although most areas of the state are accustomed to almost no precipitation during the growing season (April to October), it is expected in the winter. In 1976 and 1977, the winters brought only one-half and one-third of normal precipitation, respectively, leading to the state's fourth and first driest years on record. Most surface storage reservoirs were substantially drained in 1976 leading to widespread water shortages when 1977 turned out to be even drier. (Source: *California State Multi-Hazard Mitigation Plan*)

From 1987 to 1992 California again experienced a serious drought due to low precipitation and run-off levels.

In 1988, 45 California counties experienced water shortages that adversely affected about 30 percent of the state's population, much of the dry farmed agriculture and over 40 percent of the irrigated agriculture. Fish and wildlife resources suffered, recreational use of lakes and rivers decreased, forestry losses and fires increased, and hydroelectric power production decreased.

In February 1991, DWR and OES surveyed drought conditions in all 58 California counties and found five main problems:

- Extremely dry rangeland.
- Irrigated agriculture with severe surface water shortage and low or no groundwater.
- Widespread rural areas where individual and community supplies were going dry.
- Urban area rationing at 25 to 50 percent.
- Environmental impacts.

In 1991, after four drought years and three winter months of meager precipitation, California's water prospects looked bleak. Storage in major reservoirs had dropped to 54 percent of average, the lowest since 1977 - a record dry year. Other supply systems were suffering more major shortages. The shortages led to stringent water rationing and severe cutbacks in agricultural production (including threats to survival of permanent crops such as trees and vines). Fish and wildlife resources were in critical shape as well. Not since the 1928-34 drought had there been such a prolonged dry period.

Table 1.3 summarizes Fresno County droughts since 1972. Map 1.1 indicates Drought proclaimed States of Emergency by county between 1950-1997.

The 1976-77 and the 1987-92 droughts were among the worst in California history. So far, the 2000's have had less significant droughts, but based on the information in this table, as well as the trends illustrated by the following chart, another serious drought is likely to occur in this decade or the next. (Source: *California State Multi-Hazard Mitigation Plan July 2004*)

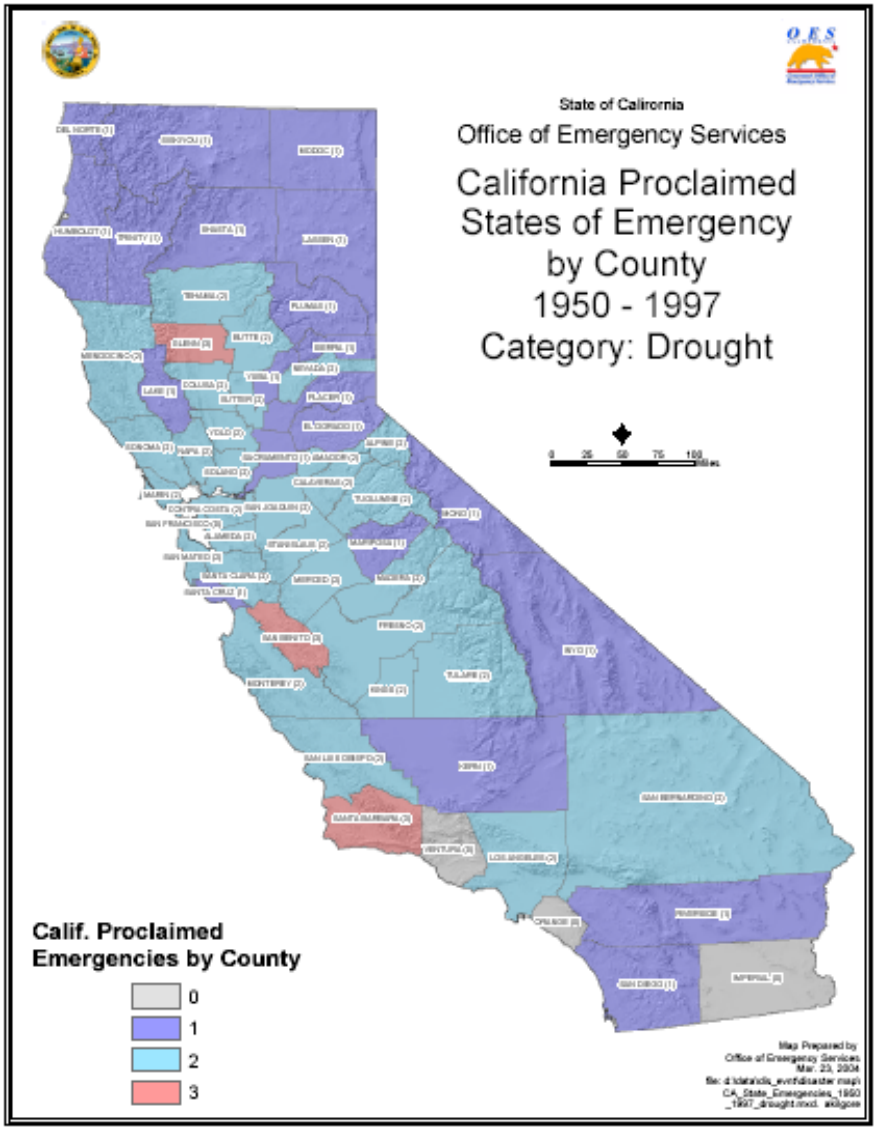
Table 1.3 Fresno County Droughts Since 1972

Year	Number of Incidents	Jurisdictions Affected	Crop Damage
1976-1977	1	Alpine, Calaveras, Colusa, Fresno, Glenn, Madera, Merced, San Diego, San Joaquin, Solano, Stanislaus, Sutter, Tuolumne, Alameda, Butte, Contra Costa, Kings, Los Angeles, Riverside, San Luis Obispo, Tulare, Yolo, Amador, Monterey, Napa, Nevada, San Benito, San Bernardino, Tehama, San Mateo, Marin	$2.67 billion
1991	1	Alameda, Alpine, Colusa, Fresno, City of Orange Cove, Glenn, Kern, Kings, Lake, Madera, Marin, Mendocino, Monterey, Placer, Santa Barbara, City of Santa Barbara, Shasta, Siskiyou, Solano, Sonoma, Sutter, Tehama, Tulare, Tuolumne, and Yuba. Many of these emergencies continued through 1992.	USDA-nationwide: $995 million for 1990-91 crop loss. Additional, $775 million in emergency funds for 1990-92 crop losses.

Sources:

- *OES Individual Assistance Section, 2001 & 2002 SBA Declarations/USDA Designations database*
- *OES Origins and Development—A Chronology 1917-1999*
- *State of California Multi Hazard Mitigation Plan*

Map 1.1 Proclaimed States of Emergency By County 1950-1997 Category: Drought

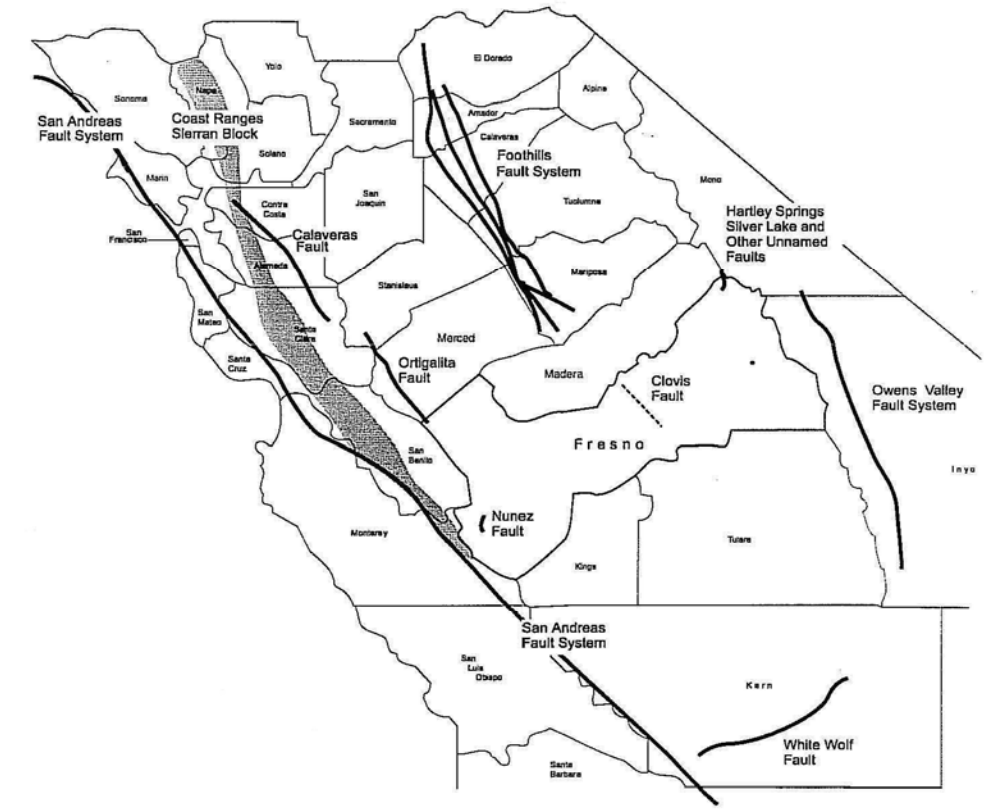


1.5 Earthquake

There are a number of active and potentially active faults within and adjacent to Fresno County.

An “active fault” is defined by the California State Department of Conservation, Division of Mines and Geology (CDMG) as one that has had surface displacement within the last 11,000 years. This does not mean, however, that faults having no evidence of surface displacement within the last 11,000 years are necessarily inactive. Potentially active faults are those that have shown displacement within the last 1.6 million years. An “inactive fault” shows no evidence of movement in historic or recent geologic time, suggesting that these faults are dormant. Within the last few years; however, geologists have discovered that the filling of a reservoir can induce fault activity and earthquakes, such that an “inactive fault” can become “active.” Map 1.2 indicates the identified earthquake faults in Fresno County including the area of the Clovis Unified School District.

Map 1.2 Regional Faults in Fresno County



NORTH	Approximate Fault Location	Fresno County
No Scale	Inferred Fault Location	Regional Faults
	Blind Thrust Fault Zone	

SOURCE: California Division of Mines and Geology, Fault tivity Map of California and Adjacent Areas, Scale .750,000 Geologic Data Map No. 6, 1994; EIP Associates, March 1997.

Clovis Fault

The northwest-trending Clovis fault is believed to be located approximately five to six miles east of the City of Clovis, extending from an area just south of the San Joaquin River to a few miles south of Fancher Creek. The Clovis fault is considered a pre-Quaternary fault or fault without recognized Quaternary displacement. The fault is not necessarily inactive.

Foothills Fault System

The southern part of the Foothills fault system, includes the Bear Mountains fault and the Melones fault zone, as well as numerous smaller, but related faults. According to California Division of Mines and Geology (CDMG) data, these faults have not shown any activity during the last 1.6 million years; however, geologic investigations of the seismic safety of the Auburn Dam site suggests these faults are potentially active. Therefore, the possibility exists that earthquakes could occur on these faults.

San Andreas Fault

The San Andreas Fault lies to the west and southwest of Fresno County. In the southwestern part of the county, the fault is roughly parallel to and a few miles west of the county line. This fault is considered active and is of primary concern in evaluating seismic hazards throughout western Fresno County, although effects of earthquakes along the San Andreas Fault could occur further east as well.

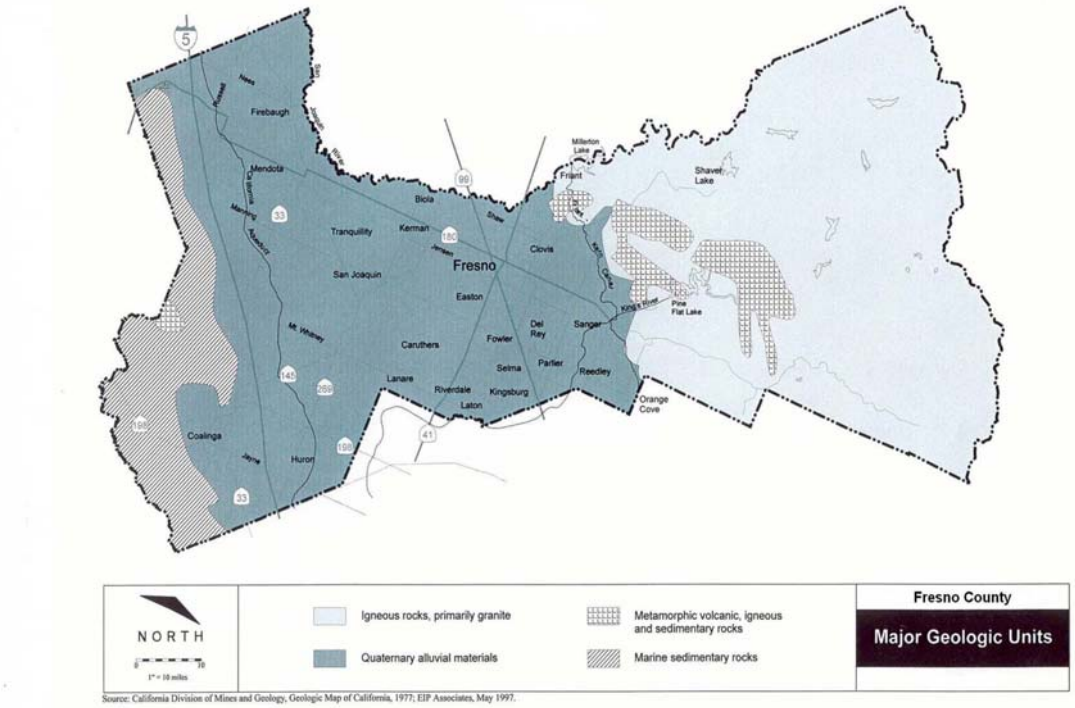
White Wolf Fault

The active White Wolf fault is located outside of Clovis and does not appear to be a hazard with respect to ground rupture. The fault was little known until 1952 when movement along it generated the damaging series of earthquakes of that year in the Bakersfield area. The shaking from this series of shocks was the most severe in Clovis since the detailed compilation of intensity data was begun by the Coast and Geodetic Survey in 1928.

Owens Valley Fault Group

A complex group of faults located along or near the base of the steep, east slope of the Sierra Nevada is herein termed the Owens Valley fault group. All known active or potentially active faults within the group are northeast of Clovis and do not present a hazard from ground.

Map 1.3 Major Geologic Units for Fresno County



Source: California Division of Mines and Geology, Geologic Map of California, 1977; EIP Associates, May 1997.

1.6 Seismic Hazards

Ground shaking, landslides, liquefaction, and amplification are the specific hazards associated with earthquakes. The severity of these hazards depends on several factors, including soil and slope conditions, proximity to the fault, earthquake magnitude, and the type of earthquake.

Ground shaking is the motion felt on the earth's surface caused by seismic waves generated by the earthquake. It is the primary cause of earthquake damage. The strength of ground shaking depends on the magnitude of the earthquake, the type of fault, and distance from the epicenter (where the earthquake originates). Buildings on poorly consolidated and thick soils will typically see more damage than buildings on consolidated soils and bedrock.

Earthquake Induced Landslides are secondary earthquake hazards that occur from ground shaking. They can destroy the roads, buildings, utilities, and other critical facilities necessary to respond and recover from an earthquake. In Fresno County, Friant Elementary is the only facility within the Clovis Unified School District with some likelihood of encountering such risk.

Liquefaction occurs when ground shaking causes wet granular soils to change from a solid state to a liquid state. This results in the loss of soil strength and the soil's ability to support weight. Buildings and their occupants are at risk when the ground can no longer support these buildings and structures. No specific assessments to identify liquefaction hazards in Fresno County have been performed. Areas where groundwater is less than 30 feet below the surface occur primarily in the valley. However, soil types in the area are not conducive to liquefaction because they are either too coarse or too high in clay content.

Amplification - Soils and soft sedimentary rocks near the earth's surface can modify ground shaking caused by earthquakes. One of these modifications is amplification. Amplification increases the magnitude of the seismic waves generated by the earthquake. The amount of amplification is influenced by the thickness of geologic materials and their physical properties. Buildings and structures built on soft and unconsolidated soils can face greater risk. Amplification can also occur in areas with deep sediment filled basins and on ridge tops.

Measurement of the severity of an earthquake can be expressed in several ways, the two most common being intensity and magnitude. The intensity, reported on the Modified Mercalli Intensity (MMI) Scale, is a subjective measure in terms of eyewitness accounts (Table 1.4). Intensities are ranked on a 12-level scale and range from barely perceptible (I) to total destruction (XII). The lower intensities are described in terms of people's reactions and sensations, whereas the higher intensities relate chiefly to observable structural damage.

Magnitude is an objective measure of earthquake severity and is closely related to the amount of seismic energy released at the focus of an earthquake. It is based on the amplitude of seismic waves as recorded on standardized seismographs. The standard for magnitude measures is the Richter Scale, an open-ended scale expressed in whole numbers and decimal fractions. The Richter Scale is logarithmic, meaning that an earthquake of magnitude 5.0 has 10 times the wave amplitude of a magnitude 4.0 and 100 times the ground vibration amplitude of a magnitude 3.0 event. As a first approximation, each whole number increment on the Richter Scale corresponds to a release of about 31 times more seismic or vibrational energy. Actually, there are several different methods of determining Richter magnitude. One uses surface waves, another body waves, and so on. However, the differences in results are slight.

Although the Richter scale has no upper limit, the greatest magnitude on record is 8.9 for earthquakes that occurred off the northwest coast of South America in 1906 (magnitude estimated) and off the east coast of Honshu, Japan in 1933. By comparison, the famous San Francisco earthquake of 1906 had an estimated magnitude of about 8.3 and an MMI of X.

A comparison of the Modified Mercalli and the Richter Scales is shown in Table 1.4 and the Abridged Modified Mercalli Intensity Scale is depicted in Table 1.5.

It is important to realize that these relationships are only generalizations and can vary for any given earthquake depending upon local geologic conditions. As a general rule of thumb, damage is slight at the magnitude 4.5 level, becomes moderate at about 5.5, and above 6.5 or so can range from considerable to nearly total (Bollinger et al., 1989).

Table 1.4 Comparison of the Modified Mercalli and the Richter Scales

Approximate relationships among earthquake magnitude, intensity, worldwide occurrence, and area affected (after U.S. Geological Survey, 1981, 1989).

General Description	Richter Magnitude	Modified Mercalli Intensity	Expected Annual Incidence	Distance Felt (miles)
Microearthquake	below 2.0	--	600,000	--
Perceptible	2.0-2.9	I--II	300,000	--
Felt generally	3.0-3.9	II-III	49,000	15
Minor	4.0-4.9	IV-V	6,000	30
Moderate	5.0-5.9	VI-VII	1,000	70
Large (Strong)	6.0-6.9	VII-VIII	120	125
Major (Severe)	7.0-7.9	IX-X	18	250
Great	8.0-8.9	XI-XII	1.1	450

Table 1.5 Abridged Modified Mercalli Intensity Scale

Intensity Value and Description		Average Peak Velocity (cm/sec)	Average Peak Acceleration (g = gravity)
	Not felt except by a very few under especially favorable circumstances (I Rossi-Forel scale). Damage potential: None.	<0.1	<0.0017
II.	Felt only by a few persons at rest, especially on upper floors of high-rise buildings. Delicately suspended objects may swing. (I to II Rossi-Forel scale). Damage potential: None.		
III.	Felt quite noticeably indoors, especially on upper floors of buildings, but many people do not recognize it as an earthquake. Standing automobiles may rock slightly. Vibration like passing of truck. Duration estimated. (III Rossi-Forel scale). Damage potential: None.		
IV.	During the day felt indoors by many, outdoors by few. At night some awakened. Dishes, windows, doors disturbed; walls make creaking sound. Sensation like a heavy truck striking building. Standing automobiles rocked noticeably. (IV to V Rossi-Forel scale). Damage potential: None. Perceived shaking: Light.	1.1 – 3.4	0.014 - 0.039
V.	Felt by nearly everyone, many awakened. Some dishes, windows, and so on broken; cracked plaster in a few places; unstable objects overturned. Disturbances of trees, poles, and other tall objects sometimes noticed. Pendulum clocks may stop. (V to VI Rossi-Forel scale). Damage potential: Very light. Perceived shaking: Moderate.	3.4 – 8.1	0.039-0.092
VI.	Felt by all, many frightened and run outdoors. Some heavy furniture moved, few instances of fallen plaster and damaged chimneys. Damage slight. (VI to VII Rossi-Forel scale). Damage potential: Light. Perceived shaking: Strong.	8.1 - 16	0.092 -0.18
VII.	Everybody runs outdoors. Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable in poorly built or badly designed structures; and some chimneys broken. Noticed by persons driving cars. (VIII Rossi-Forel scale). Damage potential: Moderate. Perceived shaking: Very strong.	16 - 31	0.18 - 0.34
VIII.	Damage slight in specially designed structures; considerable in ordinary substantial buildings with partial collapse; great in poorly built structures. Panel walls thrown out of frame structures. Fall of chimneys, factory stacks, columns, monuments, and walls. Heavy furniture overturned. Sand and mud ejected in small amounts. Changes in well water. Persons driving cars disturbed. (VIII+ to IX Rossi-Forel scale). Damage potential: Moderate to heavy. Perceived shaking: Severe.	31 - 60	0.34 - 0.65
IX.	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb; great in substantial buildings with partial collapse. Buildings shifted off foundations. Ground cracked conspicuously. Underground pipes broken. (IX+ Rossi-Forel scale). Damage potential: Heavy. Perceived shaking: Violent.	60 - 116	0.65 – 1.24
X.	Some well-built wooden structures destroyed; most masonry and frame structures destroyed; ground badly cracked. Rails bent. Landslides considerable from river banks and steep slopes. Shifted sand and mud. Water splashed, slopped over banks. (X Rossi-Forel scale). Damage potential: Very heavy. Perceived shaking: Extreme.	> 116	> 1.24
XI.	Few, if any, (masonry) structures remain standing. Bridges destroyed. Broad fissures in ground. Underground pipelines completely out of service. Earth slumps and land slips in soft ground. Rails bent greatly.		
XII.	Damage total. Waves seen on ground surface. Lines of sight and level distorted. Objects thrown into air.		

The *Five County Seismic Safety Element* was prepared in 1974 for Fresno, Kings, Madera, Mariposa, and Tulare Counties. The principal earthquake hazard was determined to be ground shaking. The *Five County Seismic Safety Element* has not been updated and does not include information pertaining to the 1983 Coalinga earthquake, nor does it reflect the current seismic hazard estimates.

According to the California State Department of Conservation, Division of Mines and Geology (CDMG) Probabilistic Seismic Hazard Map, estimated peak horizontal ground acceleration in Fresno County is 0.1 g in the valley. These estimates assume a 10 percent probability of earthquake occurrence in 50 years.

Clovis is subject to relatively low seismic hazards compared to many other parts of California. The primary seismic hazard is ground shaking produced by earthquakes generated on regional faults lying outside the immediate vicinity of Clovis. The most probable sources of earthquakes that might have a potential for causing damage in Clovis are: the Owens Valley Fault Group located about 68 miles to the northeast, the Foothills Suture Fault Zone located approximately 75 miles to the north, the San Andreas Fault located approximately 80 miles to the southwest, and the White Wolf fault located about 120 miles to the south. Table 1.6 lists the historic maximum and probable maximum earthquakes for the major faults that could cause ground shaking in Clovis.

Table 1.6 Historic Maximum and Probable Maximum Earthquakes For Fresno Faults

Regional Faults			
Fault	**Distance**	**Max. Historic (Date)**	**Max Probable**
Coalinga	60 mi.	6.4 (1983)	Unknown
San Andreas Fault	80 mi.	7.9 (1857)[1]	7.7[1]
Owens Valley	68 mi.	7.8 (1872)[1]	7.4[1]
White Wolf Fault	120 mi.	7.9 (1952)[2]	7.2[1]

1 Moment Scale
2 Richter Scale
Note: The Richter magnitude is the scale originally developed by Charles Richter for earthquakes occurring in Southern California. The moment magnitude scale is computed from the seismic moment. The moment is a measurable quantity of the area involved in the fault rupture and the amount of fault displacement that occurred in the earthquake.
Sources: Hanks and Kanamori (1979), Stover (1983), Toppozada et. al. (1981), and Wesnousky (1986)

Major zones of "active settlement" include a relatively large area on the west side of the valley, not within the Clovis Unified School District boundary. The zones of "active settlement" are known to undergo extensive settling with the addition of irrigation water, but evidence for settlement due to ground shaking is not available. There are no populated areas within the Clovis Unified School District which contain a risk for subsidence or settlement.

Studies indicate that the soil types in the Clovis Unified School District area are not conducive to liquefaction. Further, the maximum ground surface accelerations from the expected earthquakes are too low on the east side of the Valley to produce the shock necessary to initiate liquefaction. (Source: *City of Clovis-Local Hazard Mitigation Plan)*

Compliance for the building of schools in California is required by the Division of State Architect ("DSA"). DSA. The DSA is the jurisdictional authority within California that oversees the construction of public schools.

The Field Act establishes minimum structural standards for the design and construction of K-12 school buildings. Under the Field Act, school buildings are required to be built to more stringent seismic safety requirements than standard buildings, and are subject to review by the DSA, as well as rigorous inspections throughout the construction process.

The effect on buildings is based on the intensity of the seismic event and the construction of the building. Buildings within the Clovis Unified School District were built in compliance with codes at the time of construction and upgrade. The year the buildings were constructed is useful in determining to what code applied at the time. The number of buildings in the CUSD and the year they were built is included in the Table 1.7.

Table 1.7 Number Of CUSD Buildings And The Year They Were Built

Year Built	Total
1940	3
1941	2
1951	1
1952	8
1955	7
1957	1
1958	10
1959	16
1960	28
1964	6
1965	6
1968	3
1969	14
1970	1
1973	8
1975	13
1976	27
1978	8
1979	31
1980	14

Year Built	Total
1983	11
1986	5
1987	2
1988	1
1989	21
1990	104
1991	46
1992	22
1993	40
1994	54
1995	84
1996	68
1997	23
1998	39
1999	12
2000	61
2003	63
2004	3
2005	13
Grand Total	879

Source: Alliance of Schools for Cooperative Insurance Programs Detailed Insurance Appraisal Report as of July 31, 2004

Damage from an earthquake is also dependent on the type of construction of the buildings in the area affected. The specific Construction Class Description for CUSD facilities are summarized in Table 1.8

Table 1.8 Specific Construction Class Description for CUSD Facilities

Construction Class Description	Total
Fire Resistive	15
FIRE RESISTIVE-100%	2
FIRE RESISTIVE-80% MASONRY NON-COMBUSTIBLE-15% FRAME-5%	1
Frame/Combustible	388
FRAME-100%	278
FRAME-50% JOISTED MASONRY-50%	2
FRAME-60% JOISTED MASONRY-40%	3
FRAME-60% MASONRY NON-COMBUSTIBLE-40%	1
FRAME-70% JOISTED MASONRY-30%	2
FRAME-80% JOISTED MASONRY-20%	1
FRAME-80% MASONRY NON-COMBUSTIBLE-20%	8
Joisted Masonry	2
JOISTED MASONRY-100%	81
JOISTED MASONRY-60% FRAME-40%	3
JOISTED MASONRY-80% FRAME-20%	1
JOISTED MASONRY-80% MASONRY NON-COMBUSTIBLE-20%	1
JOISTED MASONRY-80% NON-COMBUSTIBLE-20%	1
JOISTED MASONRY-90% FRAME-10%	1
Masonry Noncombustible	1
MASONRY NON-COMBUSTIBLE-100%	72
MASONRY NON-COMBUSTIBLE-60% FIRE RESISTIVE-40%	1
MASONRY NON-COMBUSTIBLE-70% FIRE RESISTIVE-30%	3
MASONRY NON-COMBUSTIBLE-75% FRAME-25%	1
NON-COMBUSTIBLE-100%	9
(blank)	1
Grand Total	879

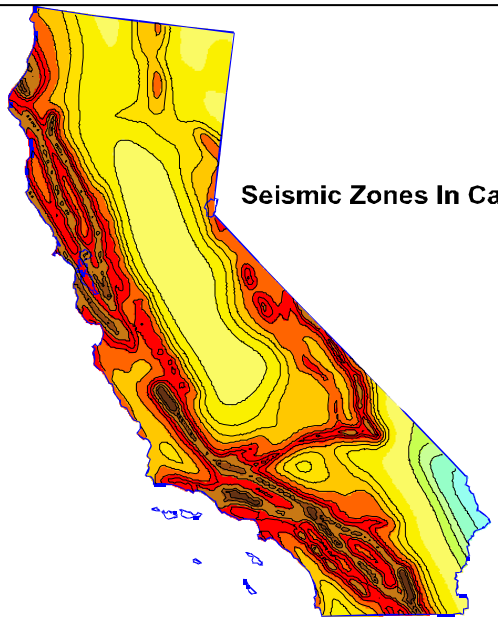
Source: Alliance of Schools for Cooperative Insurance Programs Detailed Insurance Appraisal Report as of July 31, 2004

More than half of the buildings within the district are frame and may be subject to higher displacement days based on pga value of the area.

The following maps depict the minimal earthquake risks for Clovis Unified School District:

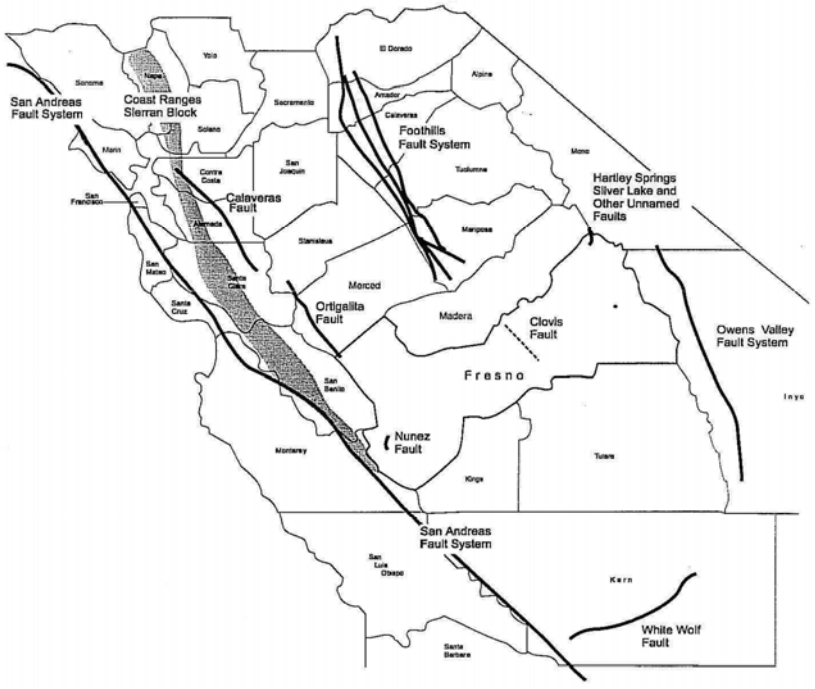
- Map 1.4 Seismic Zones In California
- Map 1.5 Regional Faults In Fresno County
- Map 1.6 Peak Horizontal Acceleration (%g) with 10% Probability of Exeedance in 50 years for CUSD
- Map 1.7 Probability of an Earthquake with a magnitude of 5.0 or greater for Clovis, CA.
- Map 1.8 Probability of an Earthquake with a magnitude of 6.0 or greater for Fresno, CA.
- Map 1.9 Probability of an Earthquake with a magnitude of 7.0 or greater for Clovis, CA.
- Map 1.10 %g with 10% Probability of Exeedance in 50 years (from USGS)
- Map 1.11 0.2 sec SA (%g) with 10% Probability of Exeedance in 50 Years - USGS Map, Oct. 2002rev
- Map 1.12 Geologic Map of California
- Map 1.13 Areas Damaged by Earthquakes in California between 1800 - 2007

Map 1.4 Seismic Zones in California

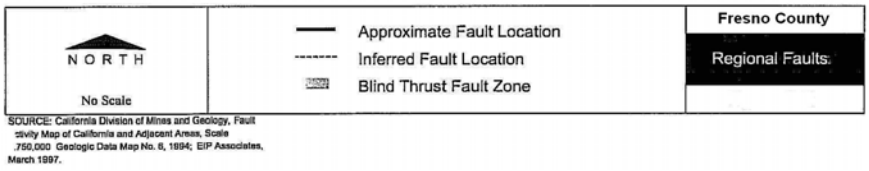


Darker Shaded Areas indicate Greater Potential Shaking

Source: USGS Website

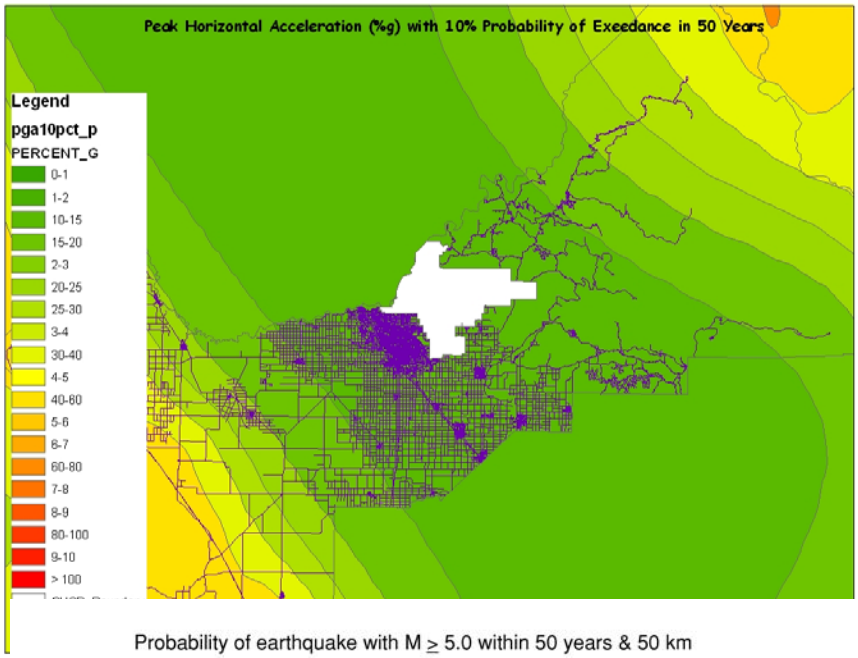


Map 1.5 Regional Faults In Fresno County

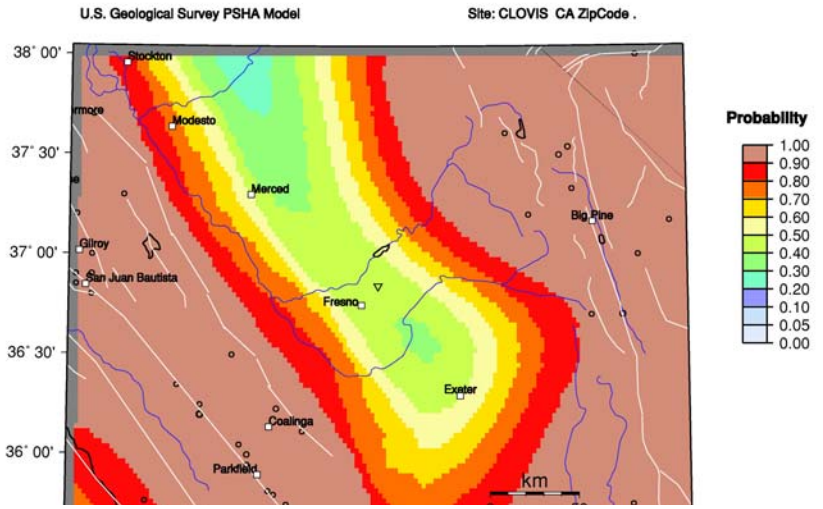


SOURCE: California Division of Mines and Geology, Fault ctivity Map of California and Adjacent Areas, Scale ,750,000 Geologic Data Map No. 6, 1994; EIP Associates, March 1997.

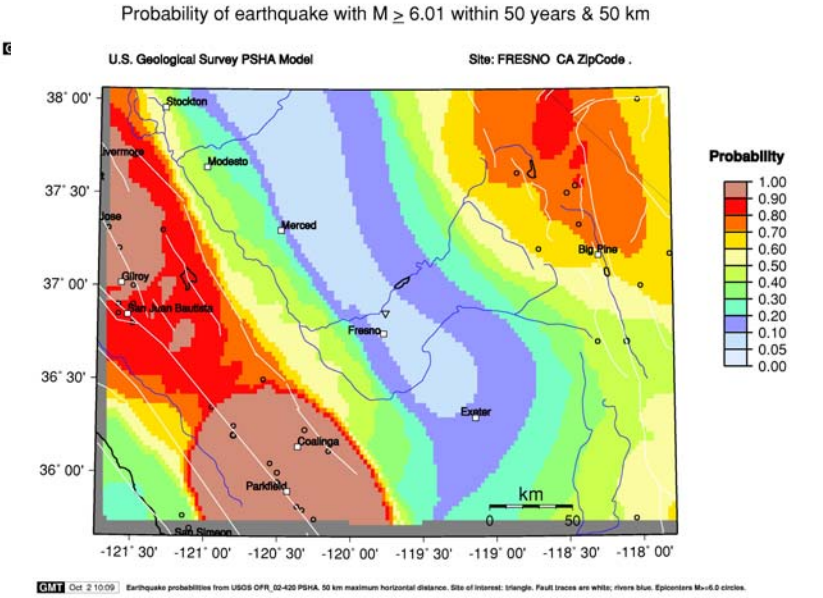
Map 1.6 Peak Horizontal Acceleration (%g) with 10% Probability of Exeedance in 50 years for CUSD



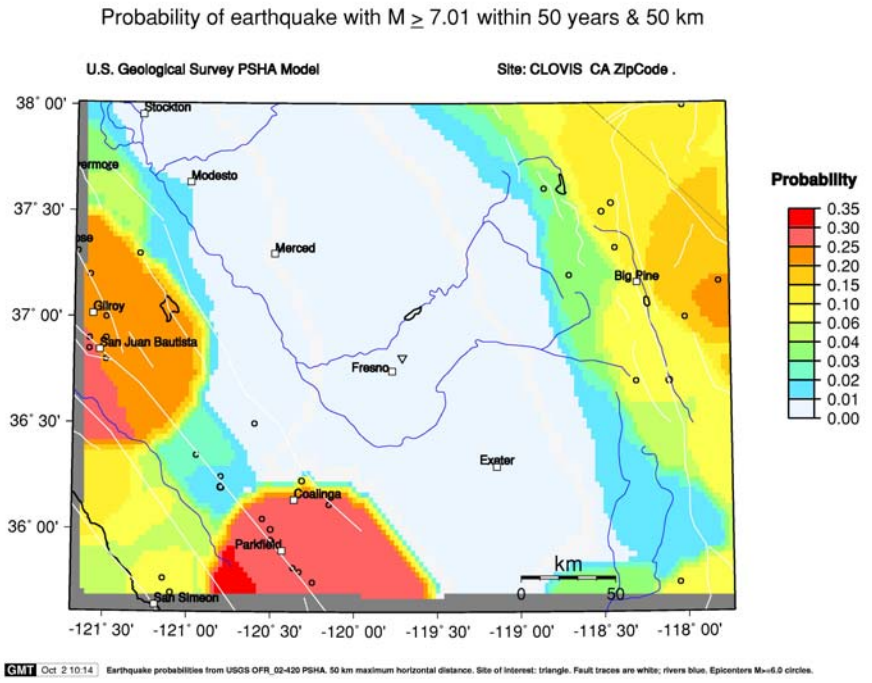
Map 1.7 Probability of an Earthquake with a magnitude of 5.0 or greater for Clovis, CA.



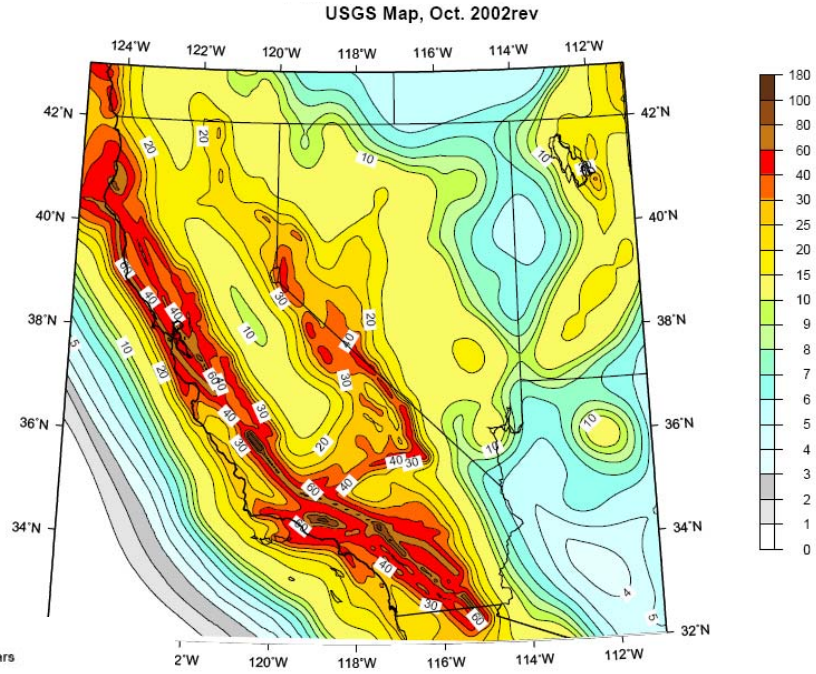
Map 1.8 Probability of an Earthquake with a magnitude of 6.0 or greater for Fresno, CA.

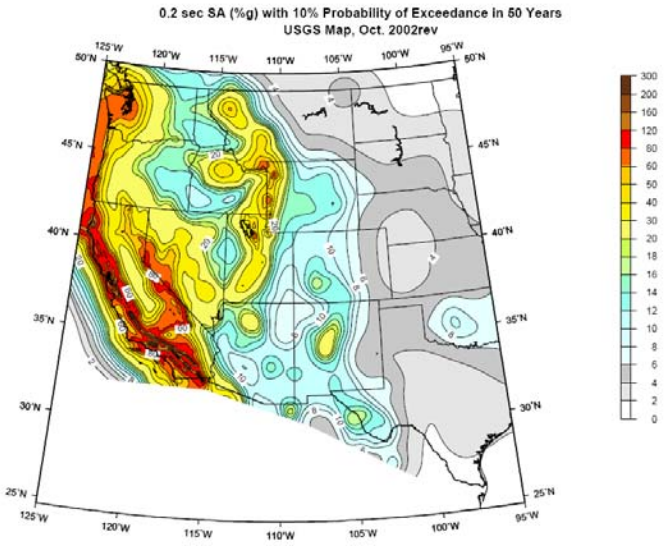


Map 1.9 Probability of an Earthquake with a magnitude of 7.0 or greater for Clovis, CA.



Map 1.10 %g with 10% Probability of Exeedance in 50 years (from USGS)

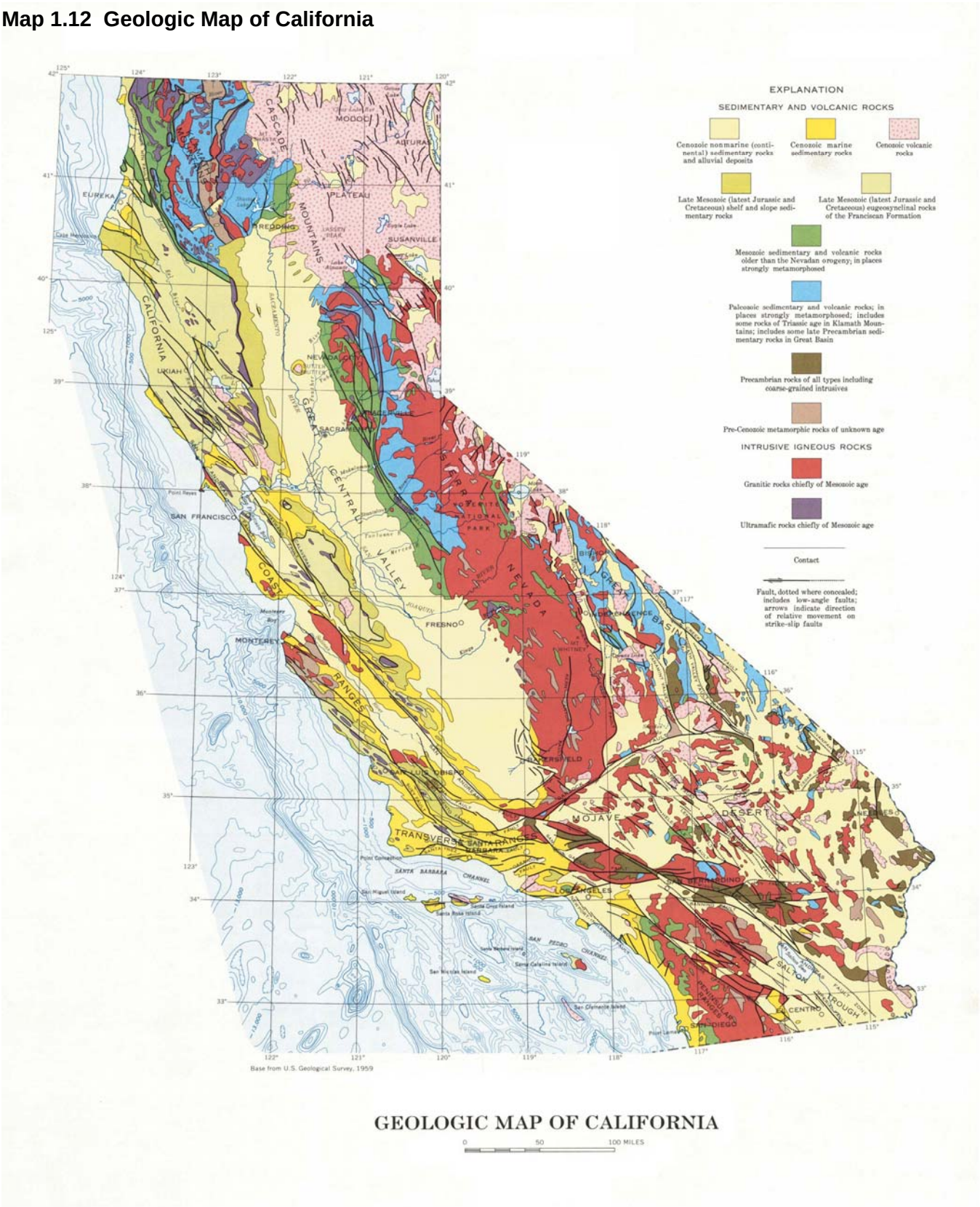




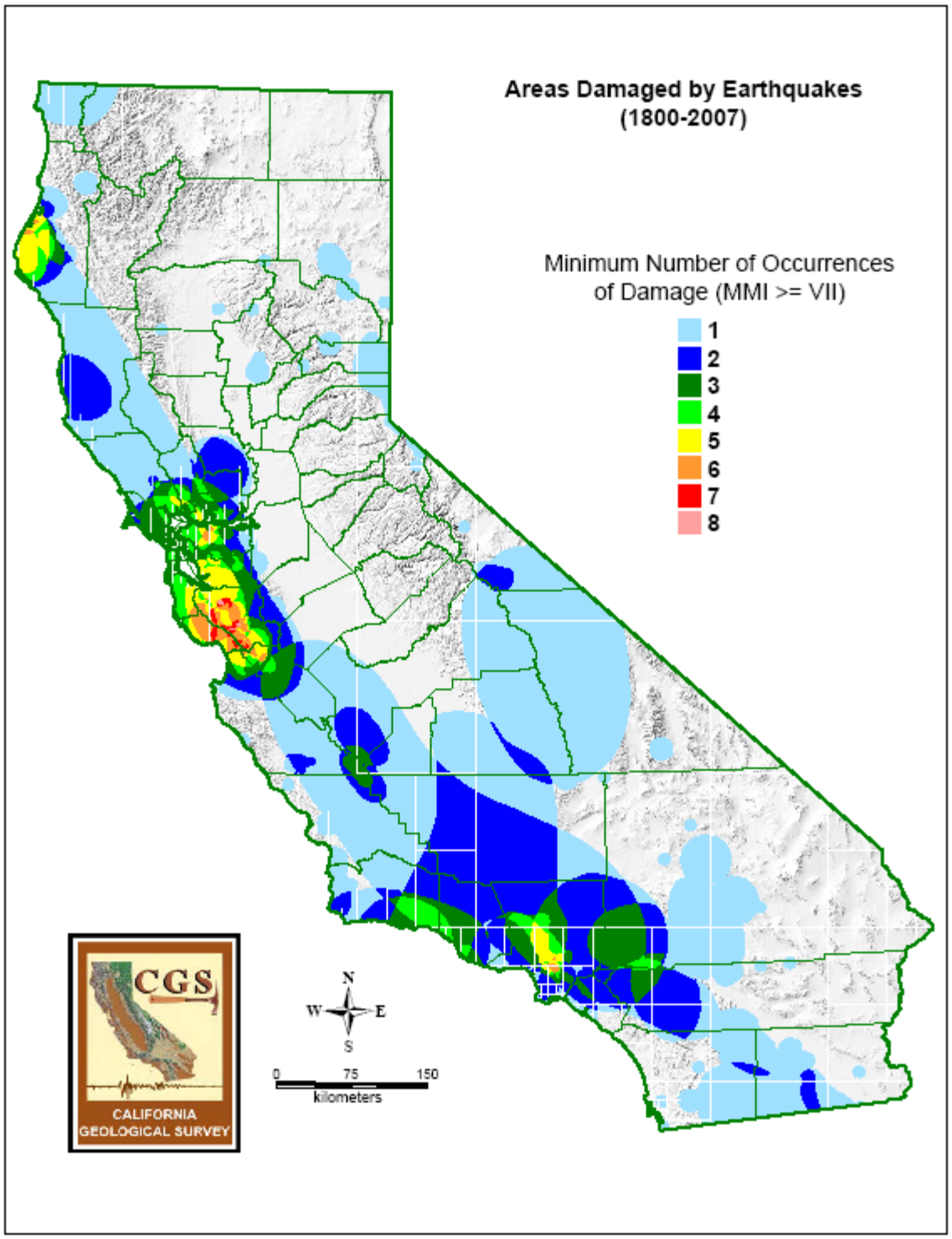
Map 1.11 0.2 sec SA (%g) with 10% Probability of Exeedance in 50 Years - USGS Map,

Oct. 2002 rev

Map 1.12 Geologic Map of California



Map 1.13 Areas Damaged by Earthquakes in California between 1800 - 2007



1.7 Flood

Flooding is a natural occurrence in the Central Valley. Of all natural hazards that affect Fresno County, floods are the most common and, on an annual average basis, the most costly. Two types of flooding occur in the county: river or stream building floods and groundwater flooding. During winter and spring months, river and stream flows in Fresno County increase with heavy rainfall and snow-melt runoff. Most floods are produced by extended periods of rainfall during the winter months.

For the city of Clovis, storm drainage and flood control is managed by the Fresno Metropolitan Flood Control District (FMFCD). The storm drainage and flood control facilities are largely designed to protect urban development.

The major flood issues are associated with the San Joaquin River, the Kings River and their tributaries. Three major dams have been constructed to control flows on the rivers. These include Friant and Mendota Dams on the San Joaquin River and Pine Flat Dam on the Kings River. In addition, a number of reservoirs, detention basins, and canals have been constructed on streams east of the Fresno-Clovis area to prevent flooding and to convey flows around developed areas. Mechanisms employed to reduce flood damage include flood control reservoirs, acquisition of development rights, levee systems, and watershed treatment. In particular, construction of Pine Flat and Friant Dams has greatly reduced flooding in urbanized areas on the east side of the valley. *Source: Fresno County General Plan Update: February 2000.*

100-Year Flood Hazard

A 100-year flood is considered for purposes of land use planning and protection of property and human safety. FEMA determines areas subject to flood hazards and designates these areas by relative risk of flooding on a map for each community, known as the Flood Insurance Rate Map (FIRM). However, according to the *Fresno County General Plan Update of January 2000*, updated channel analyses have not been performed to determine the amount of obstruction posed by vegetation and development in the San Joaquin River Channel. As such, FEMA maps depicting the 100-year floodplain for the San Joaquin River probably do not reflect the true extent and risk of flooding. The FMFCD has performed two site-specific studies using FEMA topography data to compare to developer-submitted models with the river bottom. The FMFCD found the water surface elevation increase, on average, was about four feet higher than the FEMA 100-year floodplain mapping. *Source: Fresno County General Plan Update: February 2000*

Definitions of FEMA Flood Zone Designations

Flood zones are geographic areas that the FEMA has defined according to varying levels of flood risk. These zones are depicted on a community's Flood Insurance Rate Map (FIRM) or Flood Hazard Boundary Map. Each zone reflects the severity or type of flooding in the area.

Moderate to Low Risk Areas

In communities that participate in the NFIP, flood insurance is available to all property owners and renters in these zones:

ZONE	DESCRIPTION
B, C, and X	Areas outside the 1-percent annual chance floodplain, areas of 1% annual chance sheet flow flooding where average depths are less than 1 foot, areas of 1% annual chance stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 1% annual chance flood by levees. No Base Flood Elevations or depths are shown within this zone. Insurance purchase is not required in these zones.

High Risk Areas

In communities that participate in the NFIP, mandatory flood insurance purchase requirements apply to all of these zones:

ZONE	DESCRIPTION
A	Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones.
AE, A1-A30	Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. In most instances, base flood elevations derived from detailed analyses are shown at selected intervals within these zones.
AH	Areas with a 1% annual chance of shallow flooding, usually in the form of a pond, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Base flood elevations derived from detailed analyses are shown at selected intervals within these zones.
AO	River or stream flood hazard areas, and areas with a 1% or greater chance of shallow flooding each year, usually in the form of sheet flow, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Average flood depths derived from detailed analyses are shown within these zones.
AR	Areas with a temporarily increased flood risk due to the building or restoration of a flood control system (such as a levee or a dam). Mandatory flood insurance purchase requirements will apply, but rates will not exceed the rates for unnumbered A zones if the structure is built or restored in compliance with Zone AR floodplain management regulations.
A99	Areas with a 1% annual chance of flooding that will be protected by a Federal flood control system where construction has reached specified legal requirements. No depths or base flood elevations are shown within these zones.

Undetermined Risk Areas

ZONE	DESCRIPTION
D	Areas with possible but undetermined flood hazards. No flood hazard analysis has been conducted. Flood insurance rates are commensurate with the uncertainty of the flood risk.

Moderate flood hazard areas, labeled Zone B or Zone X (shaded) are shown on the FIRM, and are the areas between the limits of the base flood and the 0.2-percent-annual-chance (or 500-year) flood. The areas of minimal flood hazard, which are the areas outside the SFHA and higher than the elevation of the 0.2-percent-annual-chance flood, are labeled Zone C or Zone X (unshaded).

Map 1.14 depicts the 100 year flood inundation areas for California. In addition, Map 1.15 indicates the 100 year flood inundation areas from Fresno County. The Flood Hazard Area for the Clovis Unified School District are depicted in Map 1.16. The FIRMS for each site maintained by the Clovis Unified District included in *Appendix B: FIRMS for Clovis Unified School District Sites.* The approximate location of each school site or facility is depicted with a red outline on the FIRMette.

The risk of damage to the buildings of the Clovis Unified School District is minimal. All school sites within the Clovis Unified School District are located within the moderate to low risk zone as defined by FEMA as Zones B, C, and X. The table below details the finished floor elevation and DSA application information for the school sites within the Clovis Unified School District. All base elevations are provided in feet above Mean Sea Level.

CUSD ELEMENTARY SCHOOLS

BUD RANK

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration - Library	414.25	02-106638	March 2, 2005
Classroom wings 3, 4 and 5	414.25	02-106638	March 2, 2005
Kindergarten building	414.25	02-106638	March 2, 2005
Multi Purpose Building	414.25	02-106638	March 2, 2005

CEDARWOOD

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration - Library	389.00	59721	June 6, 1994
Classroom wing	387.90	59721	June 6, 1994
Multi Purpose Building	389.00	59721	June 6, 1994

CENTURY

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration - Library	374.05	64506	Nov. 26, 1997
Classroom wing C and G	375.00	64506	Nov. 26, 1997
Classroom wint E	375.50	64506	Nov. 26, 1997
Kindergarten building	375.00	64506	Nov. 26, 1997
Multi Purpose Building	374.25	64506	Nov. 26, 1997
Snack Bar building	375.00	64506	Nov. 26, 1997

CLOVIS

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration - Library	374.27	02-100086	March 26, 1999
Classroom wings 3 thru 6	374.27	02-100086	March 26, 1999
Kindergarten building	374.27	02-100086	March 26, 1999
Multi Purpose building	374.27	02-100086	March 26, 1999
Snack Bar building	374.27	02-100086	March 26, 1999

COLE

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Classroom wing 1 and 2	353.36	15334	Jan. 12, 1957
Administistration building	353.36	23524	June 6, 1963
Classroom wing 3 and 4	353.36	23524	June 6, 1963
Classroom wing 5	354.92	58818	Feb. 17, 1973
Media Center	353.58	58818	Feb. 17, 1973
Multi Purpose building	353.36	23524	June 6, 1963
Storage building	353.36	15334	Jan. 12, 1957

COPPER HILLS

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration building	382.84	59972	MAR. 15, 1994
Classroom wing A and B	383.85	59972	MAR. 15, 1994
Kindergarten building	383.35	59972	MAR. 15, 1994
Multi Purpose building	382.84	59972	MAR. 15, 1994
Snack bar building	382.85	59972	MAR. 15, 1994

Mickey Cox

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration - Multi Purpose building	378.16	42430	Jan. 09, 1980
Classroom wing A and B	378.36	42430	Jan. 09, 1980
Kindergarten building	378.41	42430	Jan. 09, 1980
Library building	378.91	42430	Jan. 09, 1980
Toilet building	378.26	42430	Jan. 09, 1980

DRY CREEK

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration building	387.00	34680	January 5, 1972
Classroom wing 1 and 2	387.50	11578	Feb. 15, 1954
Classroom wing 3 and 4	387.26	34680	January 5, 1972
Kindergarten K1	387.50	34680	Jan. 05, 1972
Kindergarten K2	387.50	13386	Sept. 13, 1955
Library building	387.00	02-107476	Jan. 01, 2006
Multi Purpose building 1	387.00	13386 / 34680	Sept. 13, 1955 / Jan. 05, 1972
Multi Purpose building 2	387.00	02-68652	Jan. 13, 1998
Snack Bar building	387.50	50073	Jan. 08, 1988

FANCHER CREEK

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration building	332.45	50062	May 19, 1989
Classroom wing 10 and 20	333.57	50062	May 19, 1989
Classroom wing 30	333.71	50062	May 19, 1989
Kindergarten building	332.00	50062	May 19, 1989
Media Center building	332.45	50062	May 19, 1989
Multi Purpose building	332.85	50062	May 19, 1989
Snack bar building	333.25	50062	May 19, 1989

Toilet room building	332.85	50062	May 19, 1989
FREEDOM			
Building	**Finish Floor Elevation**	**DSA App. Number**	**DSA App. Date**
Administration / Library building	378.75	50057	May 14, 2001
Classroom wings C, D, E, F AND J	378.75	50057	May 14, 2001
Kindergarten building	378.75	50057	May 14, 2001
Multi Purpose building	378.75	50057	May 14, 2001
Snack Bar building	378.75	50057	May 14, 2001
FORT WASHINGTON			
Building	**Finish Floor Elevation**	**DSA App. Number**	**DSA App. Date**
Administration / Library	366.08	39499	Aug. 18, 1976
Classroom wing 1 AND 2	364.57	16773/ 39499	Aug. 18, 1976
Classroom wing 3	364.57	39499	Aug. 18, 1976
Library / Media center	365.25	02-102696	July 17,2007
Snack Bar building	364.23	53099	May 2, 1990
Multi Purpose building	365.78	39499	Aug. 18, 1976
FUGMAN			
Building	**Finish Floor Elevation**	**DSA App. Number**	**DSA App. Date**
Administration / Library	362.00	02-104594	Jan. 07, 2003
Classroom wing	359.50	02-104594	Jan. 07, 2003
Kindergarten building	357.00	02-104594	Jan. 07, 2003
Multi Purpose building	362.00	02-104594	Jan. 07, 2003
Snack bar building	355.70	02-104594	Jan. 07, 2003
GARFIELD			
Building	**Finish Floor Elevation**	**DSA App. Number**	**DSA App. Date**
Administration building	368.00	57529	May 14, 1993
Boiler / Toilet room building	368.50	57529	May 14, 1993
Classroom wing B	367.50	57529	May 14, 1993
Classroom wing G	369.30	57529	May 14, 1993
Kindergarten building	367.38	57529	May 14, 1993
Library / Media center building	368.00	57529	May 14, 1993
Multi Purpose building	368.50	57529	May 14, 1993
Snack bar building	367.95	57529	May 14, 1993
Toilet bulding	367.50	57529	May 14, 1993
GETTYSBURG			
Building	**Finish Floor Elevation**	**DSA App. Number**	**DSA App. Date**
Administration / Library building	374.80	49744	Aug. 5, 1988
Classroom wings 1, 2 and 3	373.50	49744	Aug. 5, 1988
Kindergarten building	373.50	49744	Aug. 5, 1988
Multi Purpose building	374.80	49744	Aug. 5, 1988
Snack bar building	373.00	49744	Aug. 5, 1988
JEFFERSON			

CUSD INTERMEDIATE SCHOOLS

ALTA SIERRA

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration-Media Center building	371.00	51090	Jan. 17, 1990
Boys & Girls Locker shower building	371.00	51090	Jan. 17, 1990
Classroom wings A, B, C	371.00	51090	Jan. 17, 1990
Gym	371.00	51090	Jan. 17, 1990
Multi Purpose building	371.00	51090	Jan. 17, 1990
Science building	371.00	51090	Jan. 17, 1990
Shops building	371.00	51090	Jan. 17, 1990
Special Ed building	371.00	51090	Jan. 17, 1990

CLARK INTERMEDIATE

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration building	360.50	3428	Oct. 16, 1940/ Aug. 18, 1982
Cafeteria building	360.35	16148	Aug. 07, 1957
Choir building	360.30	11217	Oct. 05, 1953
Classroom wings A, B and C	360.30	5109	Jan. 17, 1990
Classroom wings D	359.50	31928	May 16, 1969
Fitness Building	361.00	64254	June 12, 1996
Gymnasium and Girl's and boy's locker room	360.91	16148	Aug. 07, 1957
I.A. Building	360.70	3110/11217	Dec. 12, 1939/ Oct. 5, 1953
Library-Media Center	360.20	64254	June 12, 1996
M.E.T. Theater	361.33	6404/42919/69105	Aug 07, 1980/ Dec. 16,1997
Pool building	360.95	17039	April 03, 1053
Science Building	361.00	64254	June 12, 1996
Snack Bar building	360.50	02-103821	Nov. 04, 1994

GRANITE RIDGE

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Boy's and Girl's shower / locker room	387.14	02-105863	Dec. 30, 2004
Gymnasium	387.14	02-105863	Dec. 30, 2004
Multi Purpose building	387.14	02-105863	Dec. 30, 2004
Snack Bar building	387.14	02-105863	Dec. 30, 2004

KASTNER

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration Media center building	358.00	41828	April 26, 1979
Art building	357.00	41828	April 26, 1979
Boy's and Girl's shower locker rooms	357.00	41828	April 26, 1979
Classroom wing C	357.50	41828	April 26, 1979
Classroom wings D, E and F	357.50	41828	April 26, 1979
Gymnasium	356.00	41828	April 26, 1979
Maintenance building	357.50	41664	April 26, 1979
Multi Purpose building	358.00	41828	April 26, 1979
Pool Equipment building	357.00	42019	April 26, 1979
Science Buildings	356.00	55357	July 3, 1991
Shops building	357.00	41828	April 26, 1979
Snack Bar building	357.50	48967	July 30, 1987
Toilet building	375.50	02-103822	Feb. 15, 2002
Wrestling room building	356.00	55357	July 3, 1991

Rayburn

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration building	372.50	63390	Sept. 24, 1996
Boy's and Girl's shower locker rooms	372.50	63390	Sept. 24, 1996
Boy's and Girl's Toilet building	372.50	63390	Sept. 24, 1996
Classroom wing 100	372.50	63390	Sept. 24, 1996
Classroom wing 200	372.50	63390	Sept. 24, 1996
Gymnasium	372.50	63390	Sept. 24, 1996
Multi Purpose building	372.50	63390	Sept. 24, 1996
Snack Bar building	372.50	63390	Sept. 24, 1996

CUSD HIGH SCHOOLS

BUCHANAN

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration building	375.00	51096	Oct. 03, 1991
Arts building	375.00	51096	Oct. 03, 1991
Boiler room building	375.00	51096	Oct. 03, 1991
Boy's and Girl's shower locker rooms	375.00	51096	Oct. 03, 1991
Boy's and Girl's Toilet building	375.00	51096	Oct. 03, 1991
Classroom wings 100, 300, 500, 800	375.00	51096	Oct. 03, 1991
East and West Gymnasium	375.00	51096	Oct. 03, 1991
Library - Media center	375.00	51096	Oct. 03, 1991
Maintenance building	375.00	51096	Oct. 03, 1991
Multi Purpose building	374.50	51096	Oct. 03, 1991
Music building	374.00	51096	Oct. 03, 1991
Shops building	374.00	51096	Oct. 03, 1991
Snack Bar building	375.00	51096	Oct. 03, 1991

CLOVIS

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration building	370.00	29051	Feb. 23, 1968
Ceramic building	368.00	39091	Feb. 26, 1976
Boy's and Girl's shower locker rooms	368.00	29051	Feb. 23, 1968
Classroom wing buildings C, D and E	369.00	29051	Feb. 23, 1968
North and South Gymnasium	368.00	57450	33,763.00
Cafeteria	370.00	29051	Feb. 23, 1968
Shops buildings	369.00	29051	Feb. 23, 1968
Choir building	366.50	29051	Feb. 23, 1968
Maintenance building	368.50	29051	Feb. 23, 1968
Science buildings	368.00	57450	33,763.00
Library - Media center	370.00	29051	Feb. 23, 1968
Snack bar	368.50	29051	Feb. 23, 1968

CLOVIS EAST

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration building	372.50	65591	Feb. 26, 1998
Boiler room building	372.50	65591	Feb. 26, 1998
Boy's and Girl's shower locker rooms	372.50	65591	Feb. 26, 1998
Boy's and Girl's Toilet building	372.50	65591	Feb. 26, 1998
Classroom Wings 500, 600 and 700	372.50	65591	Feb. 26, 1998
East and West Gymnasium	372.50	65591	Feb. 26, 1998
Library - Media Center	372.50	65591	Feb. 26, 1998
Maintenance Buildings	372.50	65591	Feb. 26, 1998
Multi Purpose building	372.50	65591	Feb. 26, 1998
Shops buildings	372.50	65591	Feb. 26, 1998
Snack Bar building	372.50	65591	Feb. 26, 1998

CLOVIS NORTH

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Admin / Academic / Media building	387.14	02-105863	Dec. 30, 2004
Boy's and Girl's shower / locker room	387.14	02-105863	Dec. 30, 2004
Concert Hall building	387.14	02-105863	Dec. 30, 2004
Field House	387.14	02-105863	Dec. 30, 2004
Gymnasium	387.14	02-105863	Dec. 30, 2004
Maintenance building	387.14	02-105863	Dec. 30, 2004
Mailto-Purpose building	387.14	02-105863	Dec. 30, 2004
Performing Arts building	387.14	02-105863	Dec. 30, 2004
Snack bar building	387.14	02-105863	Dec. 30, 2004
Snack bar building	387.14	02-105863	Dec. 30, 2004
Technology Labs	387.14	02-105863	Dec. 30, 2004
Yard Maintenance building	387.14	02-105863	Dec. 30, 2004

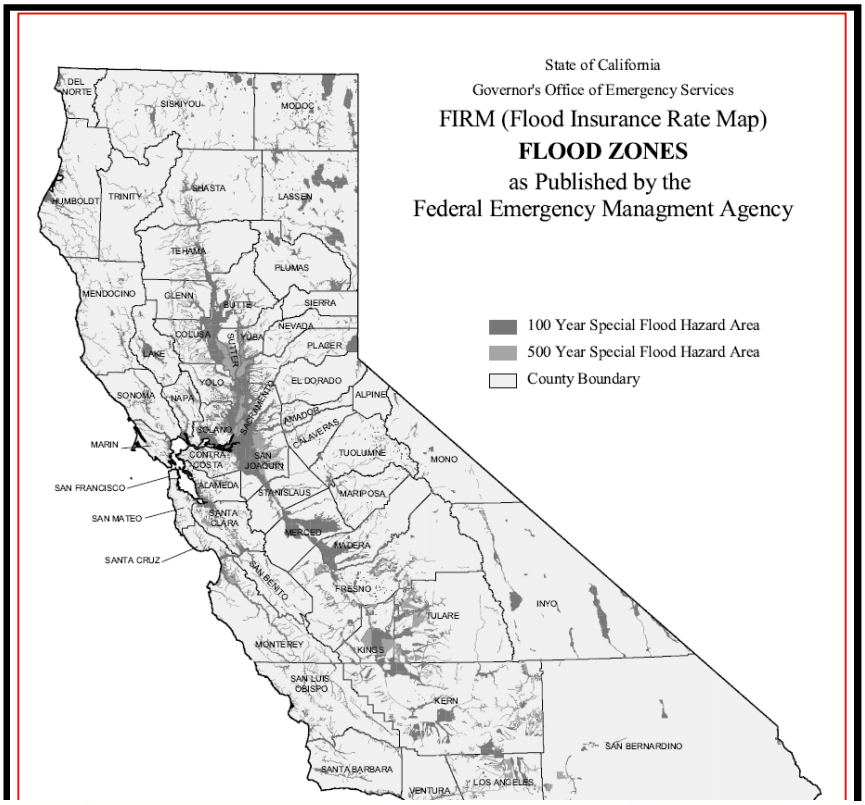
CLOVIS WEST

Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration	369.50	37205	Sept. 12, 1974
Boiler room building	369.50	37205	Sept. 12, 1974
Boy's and Girl's Toilet buildings	369.50	37205	Sept. 12, 1974
Cafeteria	369.50	38587	Oct. 17, 1975
Classroom wing S	368.00	58832	March 12, 1993
Classroom wings C, E, K and L	369.50	37205	Sept. 12, 1974
Classroom wings M	369.50	38587	Oct. 17, 1975
East Gym	368.50	58832	March 12, 1993
Library	369.50	37205	Sept. 12, 1974
Maintenance building	369.50	38587	Oct. 17, 1975
Music building	369.50	37205	Sept. 12, 1974
Science building	369.50	37205	Sept. 12, 1974
Shops building	369.50	38587	Oct. 17, 1975
Snack bar building	369.50	37205	Sept. 12, 1974
West Gym	369.50	37205	Sept. 12, 1974

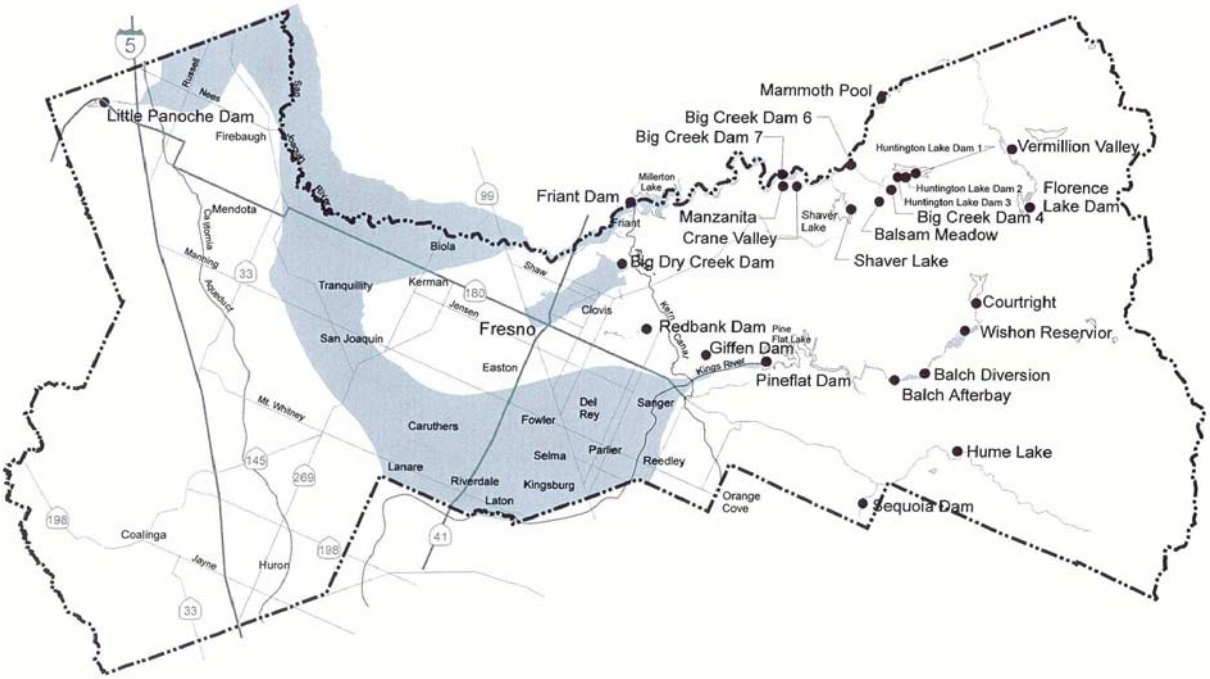
Gateway			
Building	Finish Floor Elevation	DSA App. Number	DSA App. Date
Administration	375.50	37911	Nov. 19, 1974
Arts building	375.50	37911	Nov. 19, 1974
Classroom wings 300, 400 and 800	375.50	37911	Nov. 19, 1974
Classroom wing 500	375.50	42672	Mar. 21, 1980
Classroom wings 900 and 1000	375.50	49386	Feb. 2, 1988
Cafeteria building	375.50	49386	Feb. 2, 1988
Gym	375.50	02-108749	July 4, 2007
Science wing	375.50	02-108749	July 4, 2007

Map 1.14 100 Year Flood Inundation Areas For California

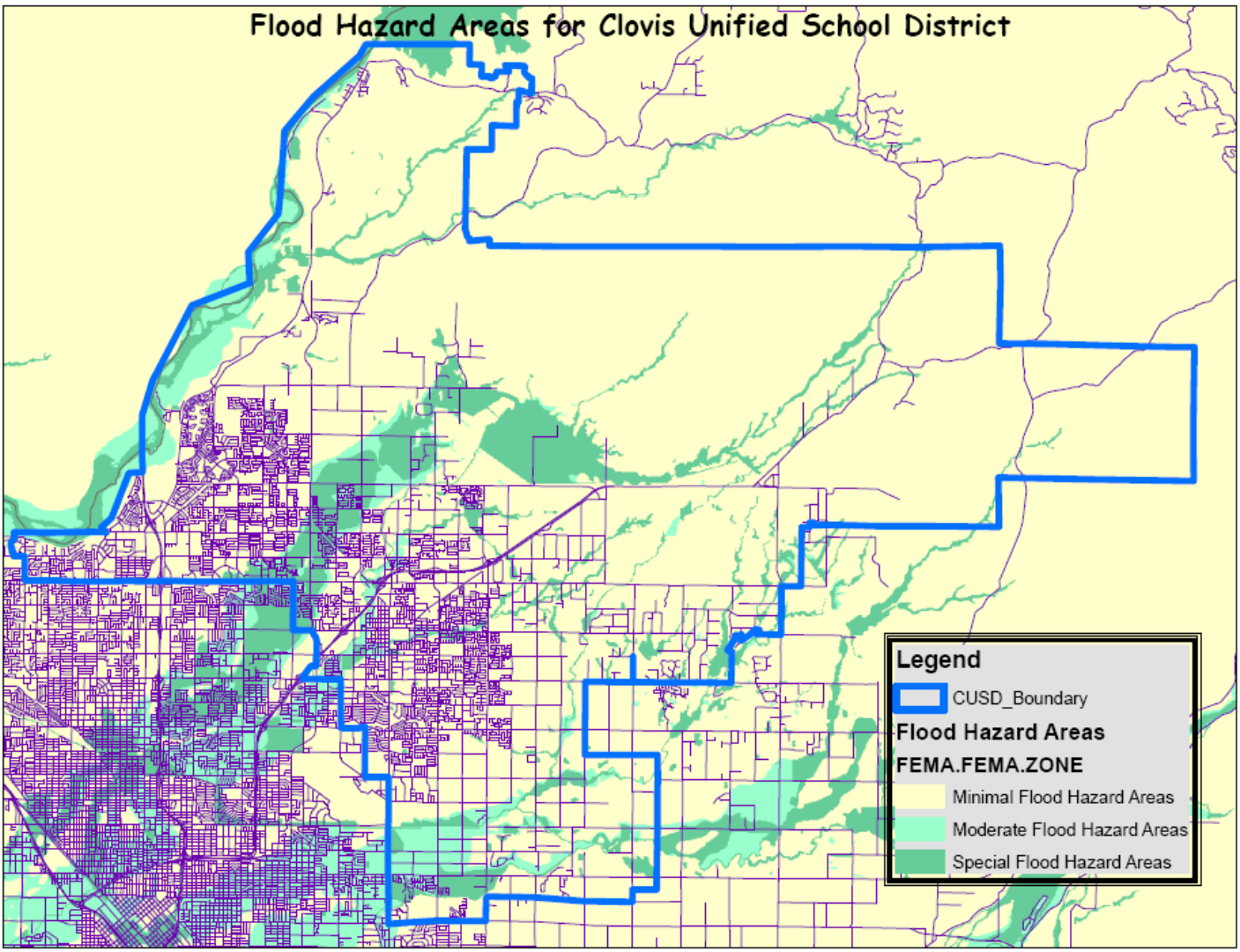
Source: Fresno County General Plan Update – January 2000.



Map 1.15 Dam Failure Flood Inundation Areas for Fresno County



Map 1.16 Flood Hazard Area for the Clovis Unified School District



Source: Clovis Unified School District

1.8 Flood - Dam Failure Inundation

According to the California Department of Water Resources, there are 33 dams located within Fresno County. Four major dams that could cause substantial flooding in Fresno County in the event of a failure are Friant Dam, Big Dry Creek Dam, Pine Flat Dam, and Redbank-Fancher Creek Project Dam.

Friant Dam - The San Joaquin River is impounded at Friant Dam in Fresno County, forming Millerton Lake. Friant Dam is operated primarily as an irrigation facility of the Central Valley Project. Irrigation waters are stored in Millerton Lake, and released through irrigation canals to irrigation districts. A 1992 Bureau of Reclamation study conducted in 1992 concluded that the structural classification for Friant Dam is "satisfactory."

The storage capacity at Millerton Lake (impounded by Friant Dam) is inadequate for full flood protection during wet years and emergency releases have resulted in levee breaks and flooding along the San Joaquin River. From Friant Dam to Gravelly Ford, the San Joaquin River is part of the Designated Floodway Program administered by the State Reclamation Board.

An inundation study completed in 1997 by the Bureau of Reclamation redefined a worst-case scenario dam break of Friant Dam to include inundation of a significant portion of the City of Fresno and a much larger portion of Fresno County than previously described. In addition, failure of upstream dams such as Shaver Lake, Lake Thomas A. Edison, Huntington, and Florence and Mammoth Pool Reservoir, Wishon, and Courtright Reservoir could contribute to flooding conditions on the San Joaquin and Kings Rivers, respectively, if downstream dam capacity of the major dams is exceeded. However, comprehensive analysis of the potential for dam failure and possible downstream effects for these upstream dams has not been undertaken. *(Source: Fresno County General Plan Update: February 2000.)*

An inundation time analysis performed as part of the *Dam Failure Evacuation Plan* of the County of Fresno indicates that given a maximum flood, the probability of which is very low, Valley Oak elementary would be inundated in 0.5 hours of the failure. Nelson Elementary could be inundated in 0.7 hours.

Pine Flat Dam completed in 1954 on the Kings River is operated by the Army Corps of Engineers for the primary purpose of flood control and emergency spillage is usually avoided. During storm events, excess flows are diverted to sloughs and irrigation canals. Flow management on the Kings River is carefully coordinated and considers factors such as anticipated weather, upstream flows, and the ability of downstream users to receive water.

The Redbank-Fancher Creek Projects - constructed by the Corps are managed by the FMFCD. The project consists of two dams and three detention basins located in the Fresno-Clovis vicinity. The flooding potential from creeks and streams between the San Joaquin and Kings Rivers in the east has been substantially eliminated in the last few years with the completion of the Redbank-Fancher Creeks Flood Control Project. The Corps conducted a dam breach analysis of Redbank and Fancher Creek Projects and concluded that failure of either of these two facilities would result in a broad sheet flow of approximately two feet over much of north central and central Fresno. According to the *Revised Public Review Draft Background Report of the Fresno County General Plan Update*, the initial flood water would reach the area near the intersection of Sierra and Chestnut Avenues within three hours and the California State University, Fresno, campus in four hours. Additional flooding would occur across the eastern portion of the community with flooding taking place at the Fresno Air Terminal within 10 hours.

Big Dry Creek Dam impounds storm water runoff from Big Dry Creek in the Big Dry Creek Reservoir. The Dry Creek Reservoir is owned and operated by the Fresno County Metropolitan Flood Control District, and is intended primarily for flood control of winter runoff from the Dry Creek and Dog Creek watersheds. The reservoir has a storage capacity of approximately 30,000 ac-ft and a surface area of approximately 3,500 acres. The reservoir was designed for a 200-year standard project flood. The maximum height of the inundation pool is 432.7 feet above mean sea level.

Under wet weather conditions, the Dry Creek Reservoir captures runoff and controls releases into artificial ditches and canals, which drain into either Little Dry Creek, located north of the reservoir or in a southerly direction into Mill Ditch. Flows from Little Dry Creek and Mill Ditch eventually drain to the San Joaquin River. Flows from the Reservoir can also be diverted into Dog Creek, which also eventually drains to the San Joaquin River. During dry weather conditions, the reservoir does not discharge water and is normally empty with the exception of a 156 ac-ft residual pool. The top of the pool remains below the elevation of an existing discharge gate. (Source: *Fresno County General Plan Update – January 2000.*)

There is no historical data to support the effects of a flood from dam failure inundation. The likelihood of such an event affecting the facilities of the Clovis Unified School District is extremely low. However, should such an event occur, the affect on areas of Fresno County and Clovis Unified School District Facilities would be substantial.

1.9 Volcanic Hazards

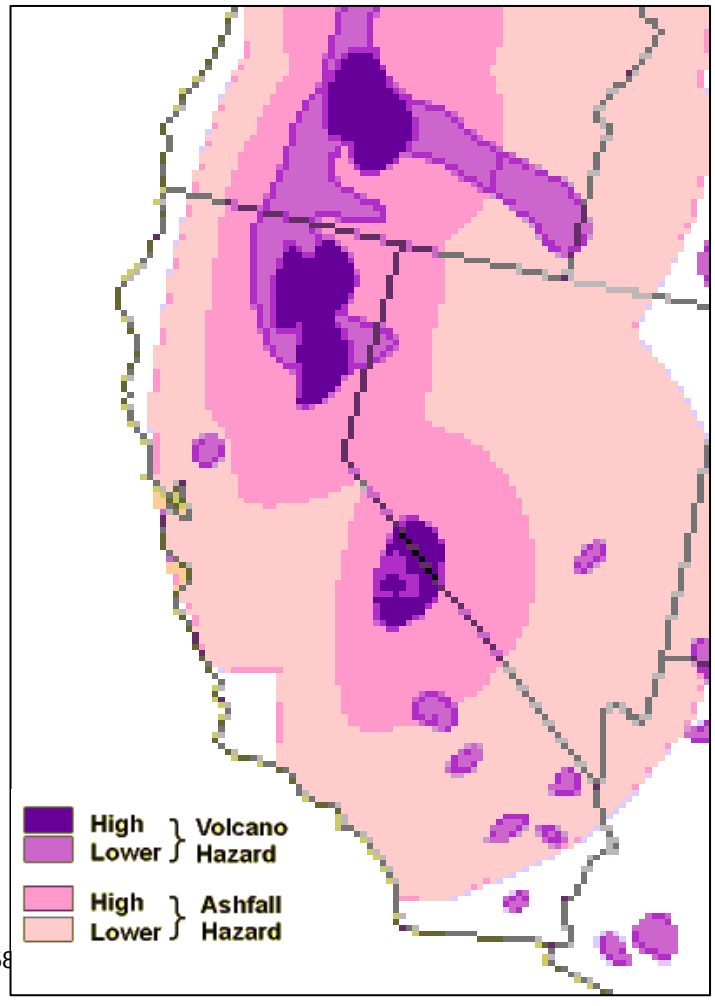
A volcano is a mountain connected to a reservoir of molten rock below the surface of the earth. They are built up by an accumulation of their own eruptive products, lava and ash. Though there are no volcanoes within Fresno County, active volcanoes exist to the north and east of the northernmost areas of Fresno County and include such features as Mono Craters and Long Valley calderas and numerous active and potential faults.

Two mildly explosive volcanic vents of Holocene age are located three to four miles from northernmost Fresno County, northwest of Duck Lake. In the event of an eruption, flows or debris from the vents would likely flow predominantly southwest approximately parallel to the North Fork of the San Joaquin River in Madera County. At the northernmost tip of Fresno County, lava flows, steam blasts, or base surges could occur.

With increased distance from a volcano, there is decreased affect from volcanic eruption. However, should a volcanic eruption occur, it is likely that a significant amount of ash (volcanic debris less than 44 millimeters in diameter) would be released into the atmosphere. Assuming a worst case scenario, geologists estimate that the South Fork of the San Joaquin River, Mono Creek, Margaret Lakes, Duck Lake, Fish Creek, Lake Thomas A. Edison, Bear Creek, Lake Italy, and the town of Mono Hot Springs could be subject to eight inches or more of compacted ash. It usually takes five inches of ash to stop automobile engines. Up to two inches of ash could fall within a 50-mile radius of eruptions. *(Source: USGS Website at ttp://www.usgs.gov/themes/map2.html)*

According to the USGS, historic wind directions and wind speeds suggest that, like smaller eruptions, most volcanic ash from large to very large eruptions would be deposited to the east of the volcano or volcanic vents. The likelihood that ash would affect any facilities of the Clovis Unified School District depends on the frequency with which winds at various heights above the volcano blow toward the area; the thickness of ash that would fall is chiefly a function of the volume erupted and wind speed. The majority of ash beds from volcanic eruptions in California lie east of their source vents. This would suggest that ash would not likely deposit on Clovis Unified School District facilities. Map 1.17 depicts the ash deposit map for California.

Map 1.17 Ash Deposit Map for California



(Source: USGS Website at ttp://www.usgs.gov/themes/map2.html)

Map 1.18 California Volcanoes and Calderas

An eruption on the western slope of Mammoth Mountain in the winter could cause hot mudflows to mix with melting snow and rock debris creating the possibility of severe flood conditions in the San Joaquin River drainage system. These floods and mudflows could endanger people, dams, and other property as they move downstream. California Volcanoes and Calderas are depicted in Map 1.18.

1.10 Severe Weather

Destructive storms come in several varieties: wind, rain, ice, snow, and combination. Nearly all destructive local storms occur from November through April when the jet stream is over the western United States and Pacific low pressure systems are more frequent. The trajectory of those lows determines their effect locally. The more southerly ones bring heavy rains while the more northerly ones bring cold air and the potential for snow and ice. Any Winter storm, regardless of its trajectory, can pack high winds. Generally, winds above about thirty miles per hour can cause widespread damage and those above about fifty miles per hour can be disastrous.

1.10.1 Winds

High winds of short duration, such as tornadoes and strong gusts from thunderstorms, can also be destructive though generally not as widespread. The damage to facilities of the district from high winds is dependent on roof construction as well as the wind speed and direction.

A table summarizing the types of roofing material and roof construction for the district with detailed breakdown by sites is included in *Appendix C: Roofing Material and Construction for CUSD Buildings*.

1.10.2 Extreme Temperature

A heat wave is generally characterized by five or more consecutive days of unusually hot weather. Heat related deaths resulting from the 2006 Heat Wave in California is depicted in Map 1.19.

The Clovis Unified School District does not operate on a year round educational calendar. Only limited sites were occupied during the July 2006 Heat event . Air Quality can be an issue during these heat events. The district provides a link to Air Quality Indices on it's website to alert staff and parents to conditions that could result in health problems for at-risk students. Air Quality Index (AQI) information is provided at http://www.cusd.com/aqi/ with links to the day's AQI at http://www.valleyair.org/aqinfo/forecast.htm

Figure 1.0 charts the Daily Temperature Averages and Extremes for Fresno created from 1948-2005 data.

Additional weather data from the Fresno Air Terminal Station indicating Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days can be found in *Appendix D: Climate Data*.

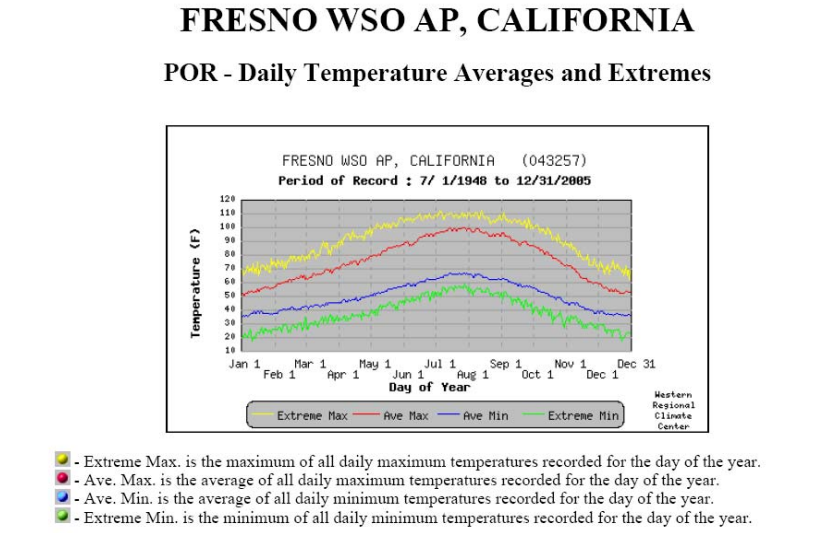
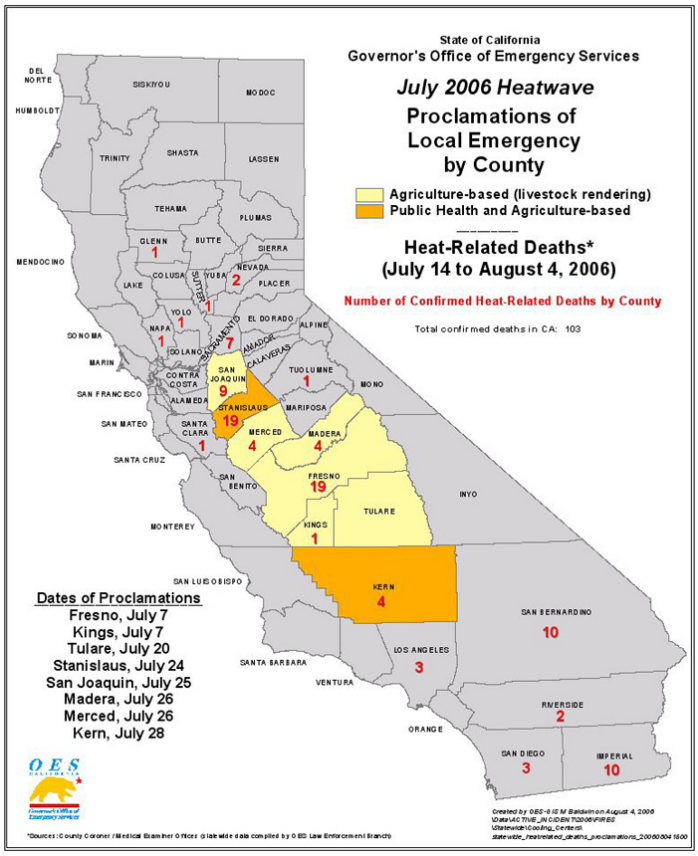


Figure 1.0 Daily Temperature Averages and Extremes for Fresno.

Map 1.19 Heat related deaths from the July 2006 Heat Wave



1.10.3 Freezing Temperature

Although infrequent, freezes can severely affect California agriculture. Table 1.9 summarizes freeze disasters in Fresno County since 1950. Map 1.19 depicts Federally declared disasters in California from 1991-2003 with Freeze events indicated. Map 1.20 depicts 2005-06 Winter Storms Proclamations in California

Table 1.9 Freeze Disasters In Fresno County Since 1950.

Year	Number of Incidents	Counties Affected	Crop Damage
1972	2	Colusa, El Dorado, Fresno, Kern, Kings, Lake, Madera, Merced, Modoc, Nevada, Placer, San Benito, San Joaquin, Santa Clara, Stanislaus, Siskiyou, Tehama, Tulare	$113.5 million
1990	1	Alameda, Butte, Colusa, Fresno, Glenn, Imperial, Kern, Los Angeles, Madera, Marin, Merced, Mendocino, Monterey, Napa, Riverside, Sacramento, San Benito, San Bernardino, San Diego, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Solano, Sonoma, Stanislaus, Sutter, Tehama, Tulare, Ventura, Yolo, Yuba	$852.4 million
1998-99	1	Fresno, Kern, Kings, Madera, Merced, Monterey, Tulare, Ventura	N/A
2001	3	Butte, Colusa, Fresno, Glenn, Madera, Mariposa, Merced, Plumas, Sutter, Tehama, Tuolumne, Yuba	N/A
2007	1	Fresno, Imperial, Kern, Los Angeles, Monterey, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Tulare, Ventura	N/A

Sources:

- *OES Individual Assistance Section – 2001 & 2002 SBA Declarations/ USDA Designations database*
- *OES Origins and Development – A Chronology 1917-1999*

The effect of freezing temperatures on the facilities of the Clovis Unified School District are generally the result of pipes bursting resulting in some flooding and water damage to both buildings and contents. In January 2007, the district suffered some water damage from the freeze event at many sites throughout the district. The total cost of parts, labor, and other costs required over 903 hours labor to repair the damage. The loss totaled over $52,000. The damage was primarily in plumbing systems, roofing, grounds, Heating, Ventilation and Air Conditioning (HVAC) systems, audio visual equipment, textbooks, and additional educational materials. A detailed breakdown of the January 2007 Freeze event losses for the Clovis Unified School District can be found in *Appendix F: 2007 Freeze Event Damage for CUSD Facilities*.

Map 1.20 Federally Declared Disasters in California 1991-2003

State of California
Governor's Office of Emergency Services

2005-06 Winter Storms Proclamations

January 13, 2006

1.11 Landslide

Landslides are the release of rock, soil, or other debris and its subsequent movement down a slope or hillside. They are generally caused or controlled by a combination of geology, topography, weather, and hydrology and can be influenced by development practices. Landslides vary greatly in size and composition: from a thin mass of soil a few yards wide to deep-seated bedrock slides miles across. The travel rate of a landslide can range from a few inches per month to many feet per second depending on the slope, type of materials, and moisture content.

California's proliferation of mountains and hills puts it at high risk for landslides. Any slope of 15 degrees or greater is susceptible to mud or landslides.

There is no risk of large landslides in the valley area of the Clovis Unified School District due to its relatively flat topography. There is, however, the potential for small slides and slumping along the steep banks of rivers or creeks.

1.12 Fire

Both urban and wild fire hazards exist in Fresno County, creating the potential for injury, loss of life, and property damage.

Any instance of uncontrolled burning in grasslands, brush, or woodlands is classified as a wildfire. Wildfires are most likely to occur during the local dry season – mid-May through October or anytime during prolonged dry periods causing drought or near-drought conditions. The probability of a destructive fire depends on weather, fuel conditions, topography, and human activities such as debris burning, land clearing, camping, and construction. Greater than four out of five forest and wildfires are started by people, often due to negligent behavior such as failure to properly extinguish smoking materials or campfires.

Urban fires primarily involve the uncontrolled burning of residential, commercial, and industrial structures due to human-made causes. Factors that exacerbate urban structural fires include substandard building construction, highly flammable materials, any delay in response time, and potentially inadequate fire protection services. The facilities of the Clovis Unified School District have been constructed with the intent of preventing or eliminating the risk from urban fires.

The Friant campus may be the only site with any likelihood to be affected by a urban/wildfire hazard.

The extent of damage from a fire is dependent on many factors, including the type of fire, the type of building construction, and the speed of fire suppression response.

The type fire response systems and fire suppression systems in use by the district are summarized in the following tables:

- Table 1.20 summarizes the number of CUSD buildings with sprinkler fire suppression systems.
- Table 1.21 summarizes the number of CUSD buildings with manual fire alarms.
- Table 1.22 summarizes the number of CUSD buildings with automated fire alarms and
- Table 1.23 summarizes the type of building construction for the district.

Table 1.20 Number of CUSD Buildings With Sprinkler Fire Suppression Systems

Sprinklers	Total
N	792
Y	87
Grand Total	879

Source: Alliance of Schools for Cooperative Insurance Programs Detailed Insurance Appraisal Report as of July 31, 2004

Table 1.21 Number Of CUSD Buildings With Manual Fire Alarms

Manual Fire Alarm	Total
N	552
Y	327
Grand Total	879

The data for the fire alarm system was derived from the *Alliance of Schools for Cooperative Insurance Programs Detailed Insurance Appraisal Report as of July 31, 2004.* During the planning process, committee representatives from the Clovis Unified School District Plant Operations Department suggested that the # of buildings with manual fire alarms is higher than indicated in the appraisal report.

Table 1.22 Number Of CUSD Buildings With Automated Fire Alarms

Auto Fire Alarm	Total
N	437
Y	442
Grand Total	879

Source: Alliance of Schools for Cooperative Insurance Programs Detailed Insurance Appraisal Report as of July 31, 2004

Table 1.23 Type of Building Construction for the Clovis Unified School District

Primary Const Class Code	Total
1 (Framed and Framed-Combustible)	683
2 (Jointed Masonry)	90
3 (Non-Combustible 100%)	9
4 (Masonry Non-Combustible-100%)	78
6 (Fire-Resistive)	18
X (Not Defined)	1
Grand Total	879

Additional tables summarizing the construction information for CUSD Buildings can be found in *Appendix E: Building Materials in use by the Clovis Unified School District.* These tables include:

- The Type Of Exterior Wall Finish Types for The District
- The Primary Construction Class Code by School Site
- Exterior Wall Finish Description for The District
- The Primary Roofing Material by School Site

1.13 Summary of Risk Assessment Conclusions

The Clovis Unified School District has facilities with an exposure to the following natural hazards:

- Drought
- Earthquake
- Flood (Riverine)
- Flood (Dam Failure Inundation)
- Volcanic Hazards
- Severe Weather (Temperature Extremes, Precipitation Extremes, Severe Wind and Storms)
- Wildfire
- Landslides

For each Natural Hazard listed above, the Risk Index Value is calculated to be:

Low Medium High
1 2 3 4 5 6 7 8 9

Table 1.0 Risk Index Values for Hazard Events Affecting CUSD

Type of Hazard	Vulnerability	Probability	Vulnerability x Probability = Risk Index Value (RIV)	RIV Descriptor
Drought	2	3	6	Medium
Earthquake	3	1	3	Low
Flood (Riverine)	2	2	4	Medium
Flood (Dam Failure Inundation)	3	1	3	Low
Volcanic Hazards	2	1	2	Low
Severe Weather (Temperature Extremes, Precipitation Extremes, Severe Wind and Storms)	2	3	6	Medium
Fire	2	2	4	Medium
Landslides	1	1	1	Low

No Hazard Events scored with a Risk Index Value of 7 or higher. All Hazard Events affecting the Clovis Unified School District were calculated to be Medium or Low.

Drought – Probability RIV= 6 (Medium)

All sites within the Clovis Unified School District are equally susceptible to the effects of Drought.

Earthquake– Probability RIV=3 (Low)

All sites within the Clovis Unified School District are equally susceptible to the effects of Earthquake. All school district facilities in this area meet compliance requirements for building of public schools. According to the results of the FEMA - HAZUS-MH: Earthquake Event Report for Scenario found that the District would remain operational after a Magnitude 7 earthquake.

Flood (Riverine) – Probability RIV=4 (Medium)

Buchanan High School, Alta Sierra Intermediate School, and Garfield Elementary along with the Medical Therapy Unit at Garfield Elementary School are the only sites within the Clovis Unified School District that are in a Moderate flood hazard area, labeled Zone B or Zone X (shaded). All other school sites in the district are in the Zone X (unshaded). See the FIRMS for all Clovis Unified School District Sites in *Appendix B: FIRMS for Clovis Unified School District Sites*.

Flood (Dam Failure Inundation) – Probability RIV=3 (Low)

All sites within the Clovis Unified School District are equally susceptible to the effects of Flood from a Dam Failure Inundation. The likelihood of such an event affecting the facilities of the Clovis Unified School District is extremely low. However, should such an event occur, the affect on areas of Fresno County and some of the facilities of the Clovis Unified School District Facilities would be substantial. The following sites are at risk of damage in the highly unlikely case of a catastrophic dam failure.

School Site	# Bldgs	School Site	# Bldgs
Alta Sierra Intermediate	26	Fugman Elementary	5
Buchanan High School	43	Garfiled Elementary	27
Medical Therapy Unit	1	Kastner Intermediate School	34
Lincoln Elementary School	19	Nelson Elementary School	21
Pinedale Elementary School	10	Valley Oak Elementary School	16
Clovis West High	50	Copper Hills Elementary	15
Fort Washington Elementary	15	Liberty Elementary	14
Maple Creek Elementary	24	Mountain View Elementary	19
Riverview Elementary	7		

Volcanic Hazards – Probability RIV=2 (Low)

All sites within the Clovis Unified School District are equally susceptible to the effects of Volcanic Hazards. The probability that any facilities within the Clovis Unified School District would be damaged by Volcanic Hazards is extremely minimal. The damage would probably result from associated increased flood hazards.

Severe Weather (Temperature Extremes, Precipitation Extremes, Severe Wind and Storms) – Probability RIV=6 (Medium)

All sites within the Clovis Unified School District are equally susceptible to the effects of Severe Weather (Temperature Extremes, Precipitation Extremes, Severe Wind and Storms). The effect of freezing temperatures on the facilities of the Clovis Unified School District are generally the result of pipes bursting resulting in some flooding and water damage to both buildings and contents. Generally the damage is limited to effects to plumbing systems, roofing, grounds, Heating, Ventilation and Air Conditioning (HVAC) systems, audio visual equipment, textbooks, and additional educational materials. The Clovis Unified School District does not operate on a year round educational calendar. Air Quality can be an issue during these heat events. The district provides a link to Air Quality Indices on its website to alert staff and parents to conditions that could result in health problems for at-risk students.

Fire – Probability RIV=4 (Medium)

All sites within the Clovis Unified School District are equally susceptible to the effects of Urban fire. The extent of damage from a fire is dependent on many factors, including the type of fire, the type of building construction, and the speed of fire suppression response. All District facilities are of a similar construction type that the risk of an urban fire is equal and the amount of damage is primarily dependent on the speed of a fire suppression response. There are no facilities in the Clovis Unified School District in Fresno County that are within a Very High Fire Hazard Severity Zone.

The Friant buildings, located in the community of Friant, are also not within a Very High Fire Hazard Severity Zone. The Friant facility is not currently being utilized by any students are staff of the Clovis Unified School District.

Landslides – Probability RIV=1 (Low)

All sites within the Clovis Unified School District are equally susceptible to the effects of Landslides. There is no risk of large landslides in the valley area of the Clovis Unified School District due to its relatively flat topography. While there is the potential for small slides and slumping along the steep banks of rivers or creeks, there are no CUSD sites that would suffer any substantial damage from Lanslides as a result of any proximity to a river or creek.

1.14 Probability of Future Events

Based on the Risk Index Values developed in the Risk Assessment and established by the CUSD PDMP Steering Committeee, the probability of future events for each hazard are based on the following assessment.

Low Medium High
1 2 3 4 5 6 7 8 9

Type of Hazard	Probability
Drought	3
Earthquake	1
Flood (Riverine)	2
Flood (Dam Failure Inundation)	1
Volcanic Hazards	1
Severe Weather (Temperature Extremes, Precipitation Extremes, Severe Wind and Storms)	3
Fire	2
Landslides	1

2.0 Asset Inventory for Clovis Unified School District

2.1 Administrative Locations

The Clovis Unified School District Operates departments from Administrative Offices:

District Office - 1450 Herndon - Clovis 93611-0599
Departments: Accounting, Administrative Services, Area Offices (Buchanan, Clovis, Clovis North, Clovis West, Reagan), Assessment, Benefits, Business Services, ***CUSD Today***, Elementary Education, Information Technology Services, Facility Services, Media Relations, Payroll, Purchasing, Secondary Education, Special Projects, Superintendent's Office.

District Office East - 1450 Herndon - Clovis 93611-0599
Departments: Curriculum Services and Innovations, Human Resources, Resource Development and Foundation for Clovis Schools.

Professional Development Building - 1680 David E. Cook Way - Clovis 93611-0573
Departments: Board Room, Co-Curricular Services, Computer Lab, Meeting Rooms, Teacher Center, Nursing Services, Special Education, Visual/Performing Arts.

District Services Building - 1735 David E. Cook Way - Clovis 93611-0567
Departments: Campus Catering, Child Development.

Warehouse - 1690 David E. Cook Way - Clovis 93611-0573
Departments: Career Education (ROP), Graphic Arts, Library Services, Professional Development.

Plant Operations - 1490 Herndon - Clovis 93611-0567
Departments: Custodial, Construction & Engineering, Grounds, Maintenance, Transportation.

Student Services and School Attendance/Police Services - 1465 David E. Cook Way - Clovis 93611-0573

2.2 School Sites

The Clovis Unified School District operates the following school sites:

Elementary Schools

*Bud Rank
Cedarwood
Century
Clovis Elementary
Cole
Copper Hills
Cox
Dry Creek
Fancher Creek
Fort Washington
Freedom
Fugman
Garfield
Gettysburg
Jefferson
Liberty
Lincoln
Maple Creek
Miramonte
Mountain View
Nelson
Pinedale
Reagan
Red Bank
Riverview
Sierra Vista
Tarpey
Temperance-Kutner
Valley Oak
Weldon
Woods

Intermediate Schools

Alta Sierra Intermediate
Clark Intermediate
*Granite Ridge Intermediate
Kastner Intermediate
Reyburn Intermediate

High Schools

Buchanan High School
CART
Clovis High School
Clovis East High School
*Clovis North High School
Clovis West High School

Alternative Education

Community Day Elementary School
Community Day Secondary School
Gateway High School
Enterprise High School
CAL Online

Other Schools

Clovis Adult School
Sierra Outdoor School at 5-Mile Creek

Source: http://www.cusd.com/schools/schools.htm
*Were constructed after 2004 and are not included in the valuation worksheets.
**Is located in Tuolumne County and is not included in the valuation worksheets.

2.3 Demographics

The demographic make up and distribution of lives within the Clovis Unified School District is summarized in Table 2.0 Number of Lives and Table 2.1 Ethnicity of Student Population. Map 2.0 depicts the 2007/08 Clovis Unified School District School Boundaries.

Table 2.0 Number of Lives

Number of Lives (students and staff)	Gender
Approximately 41,000	Approximately 51% male to 49% Female

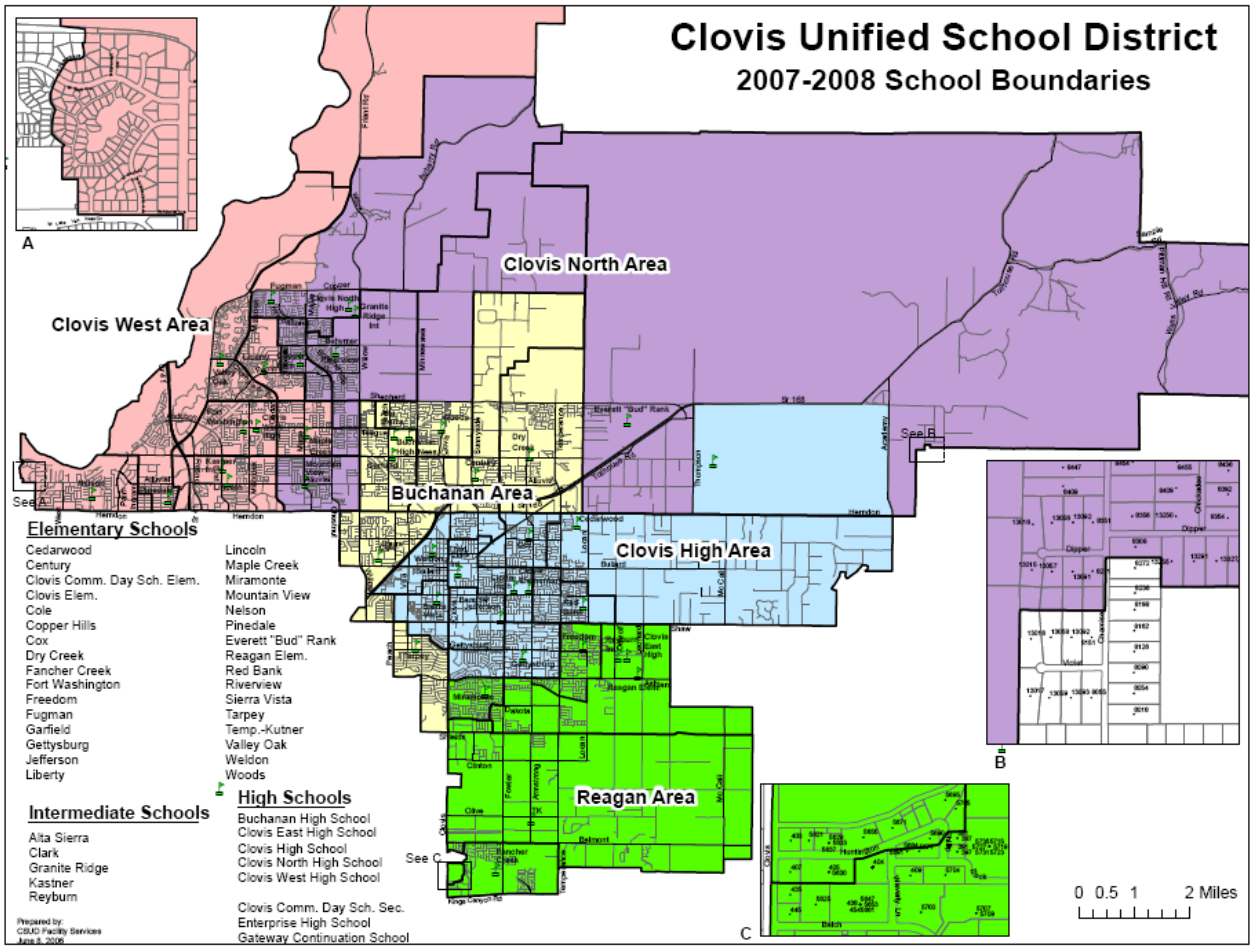
Source: http://www.localschooldirectory.com/districts.php/district_id/1062117/district_state/CA

Table 2.1 Ethnicity of Student Population

Ethnicity	Percentage
Native American	1%
Hispanic	22%
Asian	15%
Black	4%
White	57%

Source: http://www.localschooldirectory.com/districts.php/district_id/1062117/district_state/CA

Map 2.0 2007/08 Clovis Unified School District School Boundaries



2.4 Estimated Value of District Facilities

The Pre-Disaster Mitigation Planning Committee utilized several sources of information, techniques, and computer models to estimate losses to district facilities. These include, but are not limited to:

- Historical Data,
- Flood Insurance Rate Maps-FEMA Map Service Center
- USGS Topographic and Earthquake Maps
- Field Surveys
- HAZUS-MH FEMA's Software Program for Estimating Potential Losses from Disasters
- ArcGIS 9.1 – ESRI estimating software
- Spatial Analyst 9.1 – Advanced Spatial Modeling and Analysis
- Existing plans and Reports for Fresno County and for the State of California
- National Fire Danger Rating
- State Fire Marshall
- Several other sources as listed in the Sources of Information

The District's building assessed valuation is significant. Administrative costs associated with closed schools could be considerable and would depend in part on damage and recovery time.

The Total Replacement cost for the facilities (Buildings and Contents)* maintained by the Clovis Unified School District is $638,458,776*.

*Estimation from Valuation worksheets does not include Bud Rank Elementary, Granite Ridge Intermediate, Clovis North High School in Fresno County and Sierra Outdoor School at Five Mile Creek in Tuolumne County.

Clovis Unified School District

	Name or Description of Asset	Source of Information	Critical Facility	Vulnerable Population	Economic Assets	Special Considerations	Historic/Other Considerations	Building Size (sq. ft.)	Replacement Value Amount	Contents Value Amount	Functional Use or Value (at $91 per Sq. Ft) A	Displacement Cost ($ per day) B	Occupancy or Capacity (Count) C	Other Hazard Specific Information
			X	X	X	X	X							
30	Alta Sierra Intermediate	ASCIP, District	x	x	x	x		135,250	$ 23,607,674	$ 3,053,683	$ 12,307,750	$ 552,750	1956	
34	Buchanan High	ASCIP, District	x	x	x	x		313,115	$ 61,361,041	$ 7,737,106	$ 28,493,465	$ 998,250	3520	Stadium
1	Cedarwood Elementary	ASCIP, District	x	x	x	x		47,170	$ 6,891,261	$ 2,120,713	$ 4,292,470	$ 113,167	739	
2	Century Elementary	ASCIP, District	x	x	x	x		59,381	$ 7,155,741	$ 3,277,039	$ 5,403,671	$ 136,333	879	
31	Clark Intermediate	ASCIP, District	x	x	x	x	x	146,017	$ 25,820,413	$ 3,537,574	$ 13,287,547	$ 407,306	1316	Historical - Theatre
47	Clovis Academy of Gymnastics	ASCIP, District	x	x	x	x		23,367	$ 3,826,212	$ 276,860	$ 2,126,397		7	
48	Clovis Adult Education	ASCIP, District	x	x	x	x		53,280	$ 5,151,308	$ 1,097,708	$ 4,848,480		224	
37	Clovis East High and Clovis East Ag Center	ASCIP, District	x	x	x	x		265,231	$ 47,179,645	$ 6,910,856	$ 27,424,488	$ 847,306	2969	
3	Clovis Elementary	ASCIP, District	x	x	x	x		53,021	$ 6,958,529	$ 1,976,420	$ 4,824,911	$ 99,000	639	
35	Clovis High	ASCIP, District	x	x	x	x		247,916	$ 44,404,178	$ 7,037,044	$ 22,560,356	$ 774,899	2665	Stadium
36	Clovis West High	ASCIP, District	x	x	x	x		242,386	$ 43,351,855	$ 6,734,931	$ 22,057,126	$ 823,167	2869	Diving Pool
4	Cole Elementary	ASCIP, District	x	x	x	x		44,732	$ 5,836,828	$ 1,518,876	$ 4,070,612	$ 118,833	792	
6	Copper Hills Elementary	ASCIP, District	x	x	x	x		48,880	$ 6,475,561	$ 2,016,817	$ 4,448,080	$ 99,167	629	
5	Cox Elementary	ASCIP, District	x	x	x	x		44,895	$ 5,053,286	$ 1,695,690	$ 4,085,445	$ 96,333	634	
41	District Office	ASCIP, District	x	x	x	x		31,827	$ 4,831,718	$ 1,043,821	$ 2,896,257		98	
40	District Service Building	ASCIP, District	x	x	x	x		9,724	$ 1,739,982	$ 318,915	$ 884,884		546	
7	Dry Creek Elementary	ASCIP, District	x	x	x	x		48,721	$ 6,352,477	$ 1,630,392	$ 4,433,611	$ 173,500	1088	
38	Excel High	ASCIP, District	x	x	x	x		5,280	$ 509,573	$ 113,573	$ 480,480	$ 44,000	74	
8	Fancher Creek Elementary	ASCIP, District	x	x	x	x		55,366	$ 7,191,678	$ 1,901,813	$ 5,038,306	$ 133,000	865	

Clovis Unified School District

	Name or Description of Asset	Source of Information	Critical Facility	Vulnerable Population	Economic Assets	Special Considerations	Historic/Other Considerations	Building Size (sq. ft.)	Replacement Value Amount	Contents Value Amount	Functional Use or Value (at $91 per Sq. Ft) A	Displacement Cost ($ per day) B	Occupancy or Capacity (Count) C	Other Hazard Specific Information
9	Fort Washington Elementary	ASCIP, District	x	x	x	x		47,078	$ 5,724,972	$ 1,728,247	$ 4,284,098	$ 81,167	528	
10	Freedom Elementary	ASCIP, District	x	x	x	x		52,676	$ 8,737,340	$ 1,443,198	$ 4,793,516	$ 126,333	811	
11	Friant Elementary	ASCIP, District	x	x	x	x		7,874	$ 1,343,698	$ 179,363	$ 716,534	$ -	1	
50	Fugman Elementary	ASCIP, District	x	x	x	x		53,120	$ 7,323,623	$ 1,524,016	$ 4,833,920	$ 76,167	512	
12	Garfield Elementary and Medical Therapy Unit	ASCIP, District	x	x	x	x		66,923	$ 8,929,648	$ 2,166,429	$ 6,089,993	$ 118,500	723	Med Therapy Unit
39	Gateway Continuation High	ASCIP, District	x	x	x	x		26,600	$ 4,240,041	$ 772,847	$ 2,420,600	$ 104,500	393	
13	Gettysburg Elementary	ASCIP, District	x	x	x	x		51,065	$ 6,559,102	$ 1,887,486	$ 4,646,915	$ 119,000	801	
14	Jefferson Elementary	ASCIP, District	x	x	x	x		47,394	$ 6,091,826	$ 1,588,619	$ 4,312,854	$ 93,333	593	
32	Kastner Intermediate	ASCIP, District	x	x	x	x		123,581	$ 22,223,287	$ 3,677,016	$ 11,245,871	$ 403,639	1379	
15	Liberty Elementary	ASCIP, District	x	x	x	x		44,918	$ 6,093,237	$ 1,882,983	$ 4,087,538	$ 82,167	525	
16	Lincoln Elementary	ASCIP, District	x	x	x	x		47,284	$ 6,159,489	$ 1,718,465	$ 4,302,844	$ 93,667	614	
45	Maintenance/Transportation	ASCIP, District	x	x	x	x		28,891	$ 5,560,979	$ 947,530	$ 2,629,081		129	
17	Maple Creek Elementary	ASCIP, District	x	x	x	x		57,837	$ 7,180,223	$ 2,316,774	$ 5,263,167	$ 137,333	893	
18	Miramonte Elementary	ASCIP, District	x	x	x	x		49,623	$ 5,749,310	$ 1,357,855	$ 4,515,693	$ 108,333	727	
19	Mountain View Elementary	ASCIP, District	x	x	x	x		51,244	$ 6,916,085	$ 1,913,873	$ 4,663,204	$ 128,167	834	
20	Nelson Elementary	ASCIP, District	x	x	x	x		48,987	$ 5,864,750	$ 1,517,111	$ 4,457,817	$ 95,500	593	
43	Operations/Grounds	ASCIP, District	x	x	x	x		7,564	$ 739,881	$ 165,383	$ 688,324		48	
21	Pinedale Elementary	ASCIP, District	x	x	x	x		42,737	$ 5,510,822	$ 1,558,990	$ 3,889,067	$ 78,500	515	
42	Professional Development Bldg	ASCIP, District	x	x	x	x		71,815	$ 9,548,023	$ 1,721,116	$ 6,535,165		43	

Clovis Unified School District

	Name or Description of Asset	Source of Information	Critical Facility	Vulnerable Population	Economic Assets	Special Considerations	Historic/Other Considerations	Building Size (sq. ft.)	Replacement Value Amount	Contents Value Amount	Functional Use or Value (at $91 per Sq. Ft) A	Displacement Cost ($ per day) B	Occupancy or Capacity (Count) C	Other Hazard Specific Information
22	Reagan Primary	ASCIP, District	x	x	x	x		26,880	$ 1,963,200	$ 562,081	$ 2,446,080	$ 51,500	277	
23	Red Bank Elementary	ASCIP, District	x	x	x	x		49,355	$ 7,031,508	$ 1,891,950	$ 4,491,305	$ 109,333	724	
33	Reyburn Intermediate	ASCIP, District	x	x	x	x		156,411	$ 28,764,302	$ 5,406,246	$ 14,233,401	$ 450,083	1620	
24	Riverview Elementary	ASCIP, District	x	x	x	x		52,373	$ 6,921,963	$ 2,193,353	$ 4,765,943	$ 118,000	714	
46	Security Attendance	ASCIP, District	x	x	x	x		4,205	$ 771,071	$ 137,910	$ 382,655		11	
25	Sierra Vista Elementary	ASCIP, District	x	x	x	x		48,128	$ 6,166,987	$ 1,374,685	$ 4,379,648	$ 81,833	551	
26	Tarpey Elementary	ASCIP, District	x	x	x	x		54,139	$ 6,712,119	$ 1,570,613	$ 4,926,649	$ 127,667	863	
27	Temperance-Kutner Elementary	ASCIP, District	x	x	x	x		51,631	$ 8,128,863	$ 1,949,168	$ 4,698,421	$ 101,000	706	
28	Valley Oak Elementary	ASCIP, District	x	x	x	x		44,894	$ 7,570,860	$ 1,306,636	$ 4,085,354	$ 88,500	592	
29	Weldon Elementary	ASCIP, District	x	x	x	x		49,145	$ 7,772,335	$ 1,676,271	$ 4,472,195	$ 110,833	707	
49	Woods Elementary	ASCIP, District	x	x	x	x		54,654	$ 8,746,000	$ 1,578,227	$ 4,973,514	$ 102,000	614	
	Totals							3,394,585	$ 534,744,504	$ 103,714,272	$312,195,702	$8,604,066	40,550	

The Clovis Unified School District has a number of buildings comprised of various materials and structure types. The primary construction for CUSD buildings is one of the following.

- **Reinforced Masonry structures.**
- **Wood Frame Buildings**.

The Clovis Unified School District contains some property in medium hazard areas.

The District considers all buildings within the school campuses as critical facilities.

2.5 Hazard Specific Summary of the Impact on CUSD Facilities

Storm (Wind Damage)

- Approximately 1292 buildings are located within this zone.
- Results of the analysis estimate a 1% loss to structures under a district wide event.
- Results of the analysis estimate a 0% loss to contents under a district wide event.
- Results of the analysis estimate the equivalent of 0 days functional downtime and the equivalent of 0 displacement days under a district wide event.
- Estimated valuation of potential loss: $4,778,719
- Probability of maximum loss: Medium

Earthquake

- Approximately 1292 buildings are located within this zone.
- Results of the analysis estimate a 0.8% loss to structures under a district wide event.
- Results of the analysis estimate a 0.4% loss to contents under a district wide event.
- Results of the analysis estimate the equivalent of 7 days functional downtime and the equivalent of 5 displacement days under a district wide event.
- Estimated valuation of potential loss: $54,813,212
- Probability of maximum loss: Low

Flood

- Approximately 1292 buildings are located within the district. 1195 buildings outside of the 100 year flood plain and 97 buildings within the 100 year flood plain.
- Results of the analysis of a substantial flood estimate a maximum of 0.5% loss to structures outside of the 100 year flood plain.
- Additional estimate from analysis suggests a 1.0% loss to structures at those facilities within the 100 year flood plain.
- Additional estimate from analysis suggests a 5% loss to contents for structures at those facilities within the 100 year flood plain and 2% loss to contents for structures at those facilities outside the 100 year flood plain
- Results of the analysis estimate the equivalent of 1.8 to 3.7 days functional downtime and the equivalent of 0 displacement days district wide.
- Estimated valuation of potential loss: $7,483,123
- Probability of maximum loss: Low

Dam Failure (Flood)

- Approximately 202 buildings are located within this zone.
- Results of the analysis of a catastrophic dam failure inundation would result in a maximum of 100% loss to structures and contents at the following sites.

School Site	# Bldgs	School Site	# Bldgs
Alta Sierra Intermediate	26	Fugman Elementary	5
Buchanan High School	43	Garfield Elementary	27
Medical Therapy Unit	1	Kastner Intermediate School	34
Lincoln Elementary School	19	Nelson Elementary School	21
Pinedale Elementary School	10	Valley Oak Elementary School	16

- Results of the analysis of a catastrophic dam failure inundation would result in a maximum of 50% loss to structures and contents at the following sites:

School Site	# Bldgs	School Site	# Bldgs
Clovis West High	50	Copper Hills Elementary	15
Fort Washington Elementary	15	Liberty Elementary	14
Maple Creek Elementary	24	Mountain View Elementary	19
Riverview Elementary	7		

- Results of the analysis estimate the equivalent of 365 days functional downtime and the equivalent of 5 displacement days under a district wide event per site effected.
- Estimated valuation of potential loss: $394,454,122
- Probability of maximum loss: very low

Very High Fire Hazard Severity Zone (VHFHSZ).

- Approximately 0 buildings are located within this zone.
- Estimated valuation: $0.00
- In the event of a serious structure fire, the district estimates a 75% loss to a building and 100% loss to contents combined with 200 days functional downtime and the equivalent of 30 displacement days under a district wide event.
- The average loss estimate per CUSD building is $757,549.
- Probability of loss at a site: Medium
- Probability of maximum loss (district wide): very low

Volcanic Activity

- Approximately 0 buildings are located within this zone.
- Estimated valuation: $0.00
- Because of the risk of potential associated flooding, the district estimates the maximum potential loss to buildings and contents at 0.1% with the equivalent of 0 days functional downtime and the equivalent of 0 displacement days under a district wide event.
- The estimated valuation of a maximum loss is $487,872.
- The probability of such a loss is very low.

Drought

- Approximately 1292 buildings are located within this zone.
- Results of the analysis estimate a 0% loss to structures under a district wide event.
- Results of the analysis estimate a 0% loss to contents under a district wide event.
- Results of the analysis estimate the equivalent of 1 day functional downtime and the equivalent of 1 displacement day under a district wide event.
- Estimated valuation of potential loss: $9,683,359
- Probability of maximum loss: Medium

Freeze

- Approximately 1292 buildings are located within this zone.
- Results of the analysis estimate a 2% loss to structures under a district wide event.
- Results of the analysis estimate a 5% loss to contents under a district wide event.
- Results of the analysis estimate the equivalent of 30 day functional downtime and the equivalent of 1 displacement day under a district wide event.
- Estimated valuation of potential loss: $23,347,217
- Probability of maximum loss: Medium

Extreme Heat

- Approximately 1292 buildings are located within this zone.
- Results of the analysis estimate a 0.5% loss to structures under a district wide event.
- Results of the analysis estimate a 0.5% loss to contents under a district wide event.
- Results of the analysis estimate the equivalent of 0 day functional downtime and the equivalent of 0 displacement day under a district wide event.
- Estimated valuation of potential loss: $2,907,931
- Probability of maximum loss: Medium

Landslide Areas

- Approximately 0 buildings are located within this zone.
- Estimated valuation: $0.00

2.6 Valuation Data and Loss Estimates

The following tables detail the estimated losses and percent damage for each of the hazards assessed.

Clovis Unified School District

Date: **Hazard: Storm/Extreme Weather**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Alta Sierra Intermediate	$ 20,553,991	1%	$205,540	$ 3,053,683	0%	$0	$41,192	0	$ 552,750	0	$ -	$205,540
Buchanan High	$ 53,623,935	1%	$536,239	$ 7,737,106	0%	$0	$93,952	0	$ 998,250	0	$ -	$536,239
Cedarwood Elementary	$ 6,891,261	1%	$68,913	$ 2,120,713	0%	$0	$16,783	0	$ 113,167	0	$ -	$68,913
Century Elementary	$ 7,155,741	1%	$71,557	$ 3,277,039	0%	$0	$19,217	0	$ 136,333	0	$ -	$71,557
Clark Intermediate	$ 22,282,839	1%	$222,828	$ 3,537,574	0%	$0	$45,204	0	$ 407,306	0	$ -	$222,828
Clovis Academy of Gymnastics	$ 3,549,352	1%	$35,494	$ 276,860	0%	$0		0		0	$ -	$35,494
Clovis Adult Education	$ 4,053,600	1%	$40,536	$ 1,097,708	0%	$0		0		0	$ -	$40,536
Clovis East High	$ 40,268,789	1%	$402,688	$ 6,910,856	0%	$0	$65,315	0	$ 847,306	0	$ -	$402,688
Clovis Elementary	$ 6,958,529	1%	$69,585	$ 1,976,420	0%	$0	$15,221	0	$ 99,000	0	$ -	$69,585
Clovis High	$ 37,367,134	1%	$373,671	$ 7,037,044	0%	$0	$64,423	0	$ 774,899	0	$ -	$373,671
Clovis West High	$ 36,616,924	1%	$366,169	$ 6,734,931	0%	$0	$81,207	0	$ 823,167	0	$ -	$366,169
Cole Elementary	$ 5,836,828	1%	$58,368	$ 1,518,876	0%	$0	$20,671	0	$ 118,833	0	$ -	$58,368
Copper Hills Elementary	$ 6,475,561	1%	$64,756	$ 2,016,817	0%	$0	$15,790	0	$ 99,167	0	$ -	$64,756
Cox Elementary	$ 5,053,286	1%	$50,533	$ 1,695,690	0%	$0	$18,718	0	$ 96,333	0	$ -	$50,533
District Office	$ 3,787,897	1%	$37,879	$ 1,043,821	0%	$0		0		0	$ -	$37,879
District Service Building	$ 1,421,067	1%	$14,211	$ 318,915	0%	$0		0		0	$ -	$14,211
Dry Creek Elementary	$ 6,460,477	1%	$64,605	$ 1,630,392	0%	$0	$41,712	0	$ 173,500	0	$ -	$64,605
Excel High	$ 396,000	1%	$3,960	$ 113,573	0%	$0	$9,849	0	$ 44,000	0	$ -	$3,960
Fancher Creek Elementary	$ 7,191,678	1%	$71,917	$ 1,901,813	0%	$0	$18,863	0	$ 133,000	0	$ -	$71,917
Fort Washington Elementary	$ 5,724,972	1%	$57,250	$ 1,728,247	0%	$0	$16,128	0	$ 81,167	0	$ -	$57,250
Freedom Elementary	$ 8,737,340	1%	$87,373	$ 1,443,198	0%	$0	$16,647	0	$ 126,333	0	$ -	$87,373
Friant Elementary	$ 1,343,698	1%	$13,437	$ 179,363	0%	$0		0	$ -	0	$ -	$13,437
Fugman Elementary	$ 7,323,623	1%	$73,236	$ 1,524,016	0%	$0	$11,310	0	$ 76,167	0	$ -	$73,236

Clovis Unified School District

Date: **Hazard: Storm/Extreme Weather**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Garfield Elementary	$ 8,519,275	1%	$85,193	$ 2,166,429	0%	$0	$25,973	0	$ 118,500	0	$ -	$85,193
Gateway Continuation High	$ 3,467,194	1%	$34,672	$ 772,847	0%	$0	$53,965	0	$ 104,500	0	$ -	$34,672
Gettysburg Elementary	$ 6,559,102	1%	$65,591	$ 1,887,486	0%	$0	$17,764	0	$ 119,000	0	$ -	$65,591
Jefferson Elementary	$ 6,091,826	1%	$60,918	$ 1,588,619	0%	$0	$25,145	0	$ 93,333	0	$ -	$60,918
Kastner Intermediate	$ 18,546,271	1%	$185,463	$ 3,677,016	0%	$0	$36,423	0	$ 403,639	0	$ -	$185,463
Liberty Elementary	$ 6,093,237	1%	$60,932	$ 1,882,983	0%	$0	$11,858	0	$ 82,167	0	$ -	$60,932
Lincoln Elementary	$ 6,267,489	1%	$62,675	$ 1,718,465	0%	$0	$22,070	0	$ 93,667	0	$ -	$62,675
Maintenance/Transportation	$ 4,613,449	1%	$46,134	$ 947,530	0%	$0		0		0	$ -	$46,134
Maple Creek Elementary	$ 7,180,223	1%	$71,802	$ 2,316,774	0%	$0	$18,484	0	$ 137,333	0	$ -	$71,802
Miramonte Elementary	$ 5,857,310	1%	$58,573	$ 1,357,855	0%	$0	$17,541	0	$ 108,333	0	$ -	$58,573
Mountain View Elementary	$ 6,996,878	1%	$69,969	$ 1,913,873	0%	$0	$2,950	0	$ 128,167	0	$ -	$69,969
Nelson Elementary	$ 6,054,108	1%	$60,541	$ 1,517,111	0%	$0	$19,795	0	$ 95,500	0	$ -	$60,541
Operations/Grounds	$ 574,498	1%	$5,745	$ 165,383	0%	$0		0		0	$ -	$5,745
Pinedale Elementary	$ 5,510,822	1%	$55,108	$ 1,558,990	0%	$0	$15,542	0	$ 78,500	0	$ -	$55,108
Professional Development Bldg	$ 7,826,907	1%	$78,269	$ 1,721,116	0%	$0		0		0	$ -	$78,269
Reagan Primary	$ 2,035,200	1%	$20,352	$ 562,081	0%	$0	$5,809	0	$ 51,500	0	$ -	$20,352
Red Bank Elementary	$ 7,031,508	1%	$70,315	$ 1,891,950	0%	$0	$15,702	0	$ 109,333	0	$ -	$70,315
Reyburn Intermediate	$ 23,358,056	1%	$233,581	$ 5,406,246	0%	$0	$37,029	0	$ 450,083	0	$ -	$233,581
Riverview Elementary	$ 6,921,963	1%	$69,220	$ 2,193,353	0%	$0	$14,897	0	$ 118,000	0	$ -	$69,220

Clovis Unified School District

Date: **Hazard:** **Storm/Extreme Weather**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Security Attendance	$ 633,161	1%	$6,332	$ 137,910	0%	$0		0		0	$ -	$6,332
Sierra Vista Elementary	$ 6,166,987	1%	$61,670	$ 1,374,685	0%	$0	$19,466	0	$ 81,833	0	$ -	$61,670
Tarpey Elementary	$ 6,784,119	1%	$67,841	$ 1,570,613	0%	$0	$24,790	0	$ 127,667	0	$ -	$67,841
Temperance-Kutner Elementary	$ 6,179,695	1%	$61,797	$ 1,949,168	0%	$0	$31,267	0	$ 101,000	0	$ -	$61,797
Valley Oak Elementary	$ 6,264,224	1%	$62,642	$ 1,306,636	0%	$0	$13,157	0	$ 88,500	0	$ -	$62,642
Weldon Elementary	$ 6,096,064	1%	$60,961	$ 1,676,271	0%	$0	$23,824	0	$ 110,833	0	$ -	$60,961
Woods Elementary	$ 7,167,773	1%	$71,678	$ 1,578,227	0%	$0	$13,639	0	$ 102,000	0	$ -	$71,678
Total	$ 477,871,861		$ 4,778,719	$ 103,714,272		$ -	$ 1,079,293		$ 8,604,066		$ -	$ 4,778,719

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Clovis Unified School District

Date: **Hazard:** **Earthquake**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Alta Sierra Intermediate	$ 20,553,991	0.8%	$164,432	$ 3,053,683	0.4%	$12,215	$41,192	7	$ 552,750	5	$ 3,052,092	$3,228,739
Buchanan High	$ 53,623,935	0.8%	$428,991	$ 7,737,106	0.4%	$30,948	$93,952	7	$ 998,250	5	$ 5,648,913	$6,108,853
Cedarwood Elementary	$ 6,891,261	0.8%	$55,130	$ 2,120,713	0.4%	$8,483	$16,783	7	$ 113,167	5	$ 683,314	$746,927
Century Elementary	$ 7,155,741	0.8%	$57,246	$ 3,277,039	0.4%	$13,108	$19,217	7	$ 136,333	5	$ 816,184	$886,538
Clark Intermediate	$ 22,282,839	0.8%	$178,263	$ 3,537,574	0.4%	$14,150	$45,204	7	$ 407,306	5	$ 2,352,959	$2,545,372
Clovis Academy of Gymnastics	$ 3,549,352	0.8%	$28,395	$ 276,860	0.4%	$1,107		7		5	$ -	$29,502
Clovis Adult Education	$ 4,053,600	0.8%	$32,429	$ 1,097,708	0.4%	$4,391		7		5	$ -	$36,820
Clovis East High	$ 40,268,789	0.8%	$322,150	$ 6,910,856	0.4%	$27,643	$65,315	7	$ 847,306	5	$ 4,693,736	$5,043,530
Clovis Elementary	$ 6,958,529	0.8%	$55,668	$ 1,976,420	0.4%	$7,906	$15,221	7	$ 99,000	5	$ 601,548	$665,122
Clovis High	$ 37,367,134	0.8%	$298,937	$ 7,037,044	0.4%	$28,148	$64,423	7	$ 774,899	5	$ 4,325,453	$4,652,539
Clovis West High	$ 36,616,924	0.8%	$292,935	$ 6,734,931	0.4%	$26,940	$81,207	7	$ 823,167	5	$ 4,684,282	$5,004,158
Cole Elementary	$ 5,836,828	0.8%	$46,695	$ 1,518,876	0.4%	$6,076	$20,671	7	$ 118,833	5	$ 738,865	$791,635
Copper Hills Elementary	$ 6,475,561	0.8%	$51,804	$ 2,016,817	0.4%	$8,067	$15,790	7	$ 99,167	5	$ 606,364	$666,236
Cox Elementary	$ 5,053,286	0.8%	$40,426	$ 1,695,690	0.4%	$6,783	$18,718	7	$ 96,333	5	$ 612,694	$659,903
District Office	$ 3,787,897	0.8%	$30,303	$ 1,043,821	0.4%	$4,175		7		5	$ -	$34,478
District Service Building	$ 1,421,067	0.8%	$11,369	$ 318,915	0.4%	$1,276		7		5	$ -	$12,644
Dry Creek Elementary	$ 6,460,477	0.8%	$51,684	$ 1,630,392	0.4%	$6,522	$41,712	7	$ 173,500	5	$ 1,159,484	$1,217,689
Excel High	$ 396,000	0.8%	$3,168	$ 113,573	0.4%	$454	$9,849	7	$ 44,000	5	$ 288,943	$292,566
Fancher Creek Elementary	$ 7,191,678	0.8%	$57,533	$ 1,901,813	0.4%	$7,607	$18,863	7	$ 133,000	5	$ 797,043	$862,183
Fort Washington Elementary	$ 5,724,972	0.8%	$45,800	$ 1,728,247	0.4%	$6,913	$16,128	7	$ 81,167	5	$ 518,730	$571,443
Freedom Elementary	$ 8,737,340	0.8%	$69,899	$ 1,443,198	0.4%	$5,773	$16,647	7	$ 126,333	5	$ 748,192	$823,864
Friant Elementary	$ 1,343,698	0.8%	$10,750	$ 179,363	0.4%	$717		7	$ -	5	$ -	$11,467
Fugman Elementary	$ 7,323,623	0.8%	$58,589	$ 1,524,016	0.4%	$6,096	$11,310	7	$ 76,167	5	$ 460,003	$524,688

Clovis Unified School District

Date: **Hazard:** **Earthquake**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Garfield Elementary	$ 8,519,275	0.8%	$68,154	$ 2,166,429	0.4%	$8,666	$25,973	7	$ 118,500	5	$ 774,314	$851,134
Gateway Continuation High	$ 3,467,194	0.8%	$27,738	$ 772,847	0.4%	$3,091	$53,965	7	$ 104,500	5	$ 900,253	$931,082
Gettysburg Elementary	$ 6,559,102	0.8%	$52,473	$ 1,887,486	0.4%	$7,550	$17,764	7	$ 119,000	5	$ 719,350	$779,373
Jefferson Elementary	$ 6,091,826	0.8%	$48,735	$ 1,588,619	0.4%	$6,354	$25,145	7	$ 93,333	5	$ 642,682	$697,771
Kastner Intermediate	$ 18,546,271	0.8%	$148,370	$ 3,677,016	0.4%	$14,708	$36,423	7	$ 403,639	5	$ 2,273,153	$2,436,231
Liberty Elementary	$ 6,093,237	0.8%	$48,746	$ 1,882,983	0.4%	$7,532	$11,858	7	$ 82,167	5	$ 493,844	$550,122
Lincoln Elementary	$ 6,267,489	0.8%	$50,140	$ 1,718,465	0.4%	$6,874	$22,070	7	$ 93,667	5	$ 622,825	$679,839
Maintenance/Transportation	$ 4,613,449	0.8%	$36,908	$ 947,530	0.4%	$3,790		7		5	$ -	$40,698
Maple Creek Elementary	$ 7,180,223	0.8%	$57,442	$ 2,316,774	0.4%	$9,267	$18,484	7	$ 137,333	5	$ 816,054	$882,763
Miramonte Elementary	$ 5,857,310	0.8%	$46,858	$ 1,357,855	0.4%	$5,431	$17,541	7	$ 108,333	5	$ 664,455	$716,745
Mountain View Elementary	$ 6,996,878	0.8%	$55,975	$ 1,913,873	0.4%	$7,655	$2,950	7	$ 128,167	5	$ 661,488	$725,118
Nelson Elementary	$ 6,054,108	0.8%	$48,433	$ 1,517,111	0.4%	$6,068	$19,795	7	$ 95,500	5	$ 616,066	$670,567
Operations/Grounds	$ 574,498	0.8%	$4,596	$ 165,383	0.4%	$662		7		5	$ -	$5,258
Pinedale Elementary	$ 5,510,822	0.8%	$44,087	$ 1,558,990	0.4%	$6,236	$15,542	7	$ 78,500	5	$ 501,292	$551,615
Professional Development Bldg	$ 7,826,907	0.8%	$62,615	$ 1,721,116	0.4%	$6,884		7		5	$ -	$69,500
Reagan Primary	$ 2,035,200	0.8%	$16,282	$ 562,081	0.4%	$2,248	$5,809	7	$ 51,500	5	$ 298,160	$316,690
Red Bank Elementary	$ 7,031,508	0.8%	$56,252	$ 1,891,950	0.4%	$7,568	$15,702	7	$ 109,333	5	$ 656,577	$720,397
Reyburn Intermediate	$ 23,358,056	0.8%	$186,864	$ 5,406,246	0.4%	$21,625	$37,029	7	$ 450,083	5	$ 2,509,616	$2,718,105
Riverview Elementary	$ 6,921,963	0.8%	$55,376	$ 2,193,353	0.4%	$8,773	$14,897	7	$ 118,000	5	$ 694,280	$758,430

Clovis Unified School District

Date: **Hazard:** **Earthquake**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Security Attendance	$ 633,161	0.8%	$5,065	$ 137,910	0.4%	$552		7		5	$ -	$5,617
Sierra Vista Elementary	$ 6,166,987	0.8%	$49,336	$ 1,374,685	0.4%	$5,499	$19,466	7	$ 81,833	5	$ 545,424	$600,259
Tarpey Elementary	$ 6,784,119	0.8%	$54,273	$ 1,570,613	0.4%	$6,282	$24,790	7	$ 127,667	5	$ 811,867	$872,423
Temperance-Kutner Elementary	$ 6,179,695	0.8%	$49,438	$ 1,949,168	0.4%	$7,797	$31,267	7	$ 101,000	5	$ 723,870	$781,104
Valley Oak Elementary	$ 6,264,224	0.8%	$50,114	$ 1,306,636	0.4%	$5,227	$13,157	7	$ 88,500	5	$ 534,602	$589,942
Weldon Elementary	$ 6,096,064	0.8%	$48,769	$ 1,676,271	0.4%	$6,705	$23,824	7	$ 110,833	5	$ 720,932	$776,405
Woods Elementary	$ 7,167,773	0.8%	$57,342	$ 1,578,227	0.4%	$6,313	$13,639	7	$ 102,000	5	$ 605,475	$669,130
	$ 477,871,861		$ 3,822,975	$ 103,714,272		$ 414,857	$ 1,079,293	343	$ 8,604,066	245	$ 50,575,380	$ 54,813,212

Notes: 75% of District Buildings are Frame. There are two basic types of buildings at CUSD- Reinforced Masonry and Wood Frame.
The % damage was slected from single residence loss estimation table PGA 0.10 Low - .8% Reinforced Masonry

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Clovis Unified School District

Date: **Hazard:** **Flood**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Alta Sierra Intermediate	$ 20,553,991	1%	$205,540	$ 3,053,683	5%	$152,684	$41,192	3.7	$ 552,750	0	$ 152,410	$510,634
Buchanan High	$ 53,623,935	1%	$536,239	$ 7,737,106	5%	$386,855	$93,952	3.7	$ 998,250	0	$ 347,622	$1,270,717
Cedarwood Elementary	$ 6,891,261	0.5%	$34,456	$ 2,120,713	2%	$42,414	$16,783	1.8	$ 113,167	0	$ 30,209	$107,079
Century Elementary	$ 7,155,741	0.5%	$35,779	$ 3,277,039	2%	$65,541	$19,217	1.8	$ 136,333	0	$ 34,591	$135,910
Clark Intermediate	$ 22,282,839	0.5%	$111,414	$ 3,537,574	2%	$70,751	$45,204	1.8	$ 407,306	0	$ 81,368	$263,533
Clovis Academy of Gymnastics	$ 3,549,352	0.5%	$17,747	$ 276,860	2%	$5,537		1.8		0	$ -	$23,284
Clovis Adult Education	$ 4,053,600	0.5%	$20,268	$ 1,097,708	2%	$21,954		1.8		0	$ -	$42,222
Clovis East High	$ 40,268,789	0.5%	$201,344	$ 6,910,856	2%	$138,217	$65,315	1.8	$ 847,306	0	$ 117,567	$457,128
Clovis Elementary	$ 6,958,529	0.5%	$34,793	$ 1,976,420	2%	$39,528	$15,221	1.8	$ 99,000	0	$ 27,398	$101,719
Clovis High	$ 37,367,134	0.5%	$186,836	$ 7,037,044	2%	$140,741	$64,423	1.8	$ 774,899	0	$ 115,961	$443,537
Clovis West High	$ 36,616,924	0.5%	$183,085	$ 6,734,931	2%	$134,699	$81,207	1.8	$ 823,167	0	$ 146,172	$463,955
Cole Elementary	$ 5,836,828	0.5%	$29,184	$ 1,518,876	2%	$30,378	$20,671	1.8	$ 118,833	0	$ 37,209	$96,770
Copper Hills Elementary	$ 6,475,561	0.5%	$32,378	$ 2,016,817	2%	$40,336	$15,790	1.8	$ 99,167	0	$ 28,422	$101,136
Cox Elementary	$ 5,053,286	0.5%	$25,266	$ 1,695,690	2%	$33,914	$18,718	1.8	$ 96,333	0	$ 33,693	$92,873
District Office	$ 3,787,897	0.5%	$18,939	$ 1,043,821	2%	$20,876		1.8		0	$ -	$39,816
District Service Building	$ 1,421,067	0.5%	$7,105	$ 318,915	2%	$6,378		1.8		0	$ -	$13,484
Dry Creek Elementary	$ 6,460,477	0.5%	$32,302	$ 1,630,392	2%	$32,608	$41,712	1.8	$ 173,500	0	$ 75,082	$139,992
Excel High	$ 396,000	0.5%	$1,980	$ 113,573	2%	$2,271	$9,849	1.8	$ 44,000	0	$ 17,728	$21,980
Fancher Creek Elementary	$ 7,191,678	0.5%	$35,958	$ 1,901,813	2%	$38,036	$18,863	1.8	$ 133,000	0	$ 33,954	$107,948
Fort Washington Elementary	$ 5,724,972	0.5%	$28,625	$ 1,728,247	2%	$34,565	$16,128	1.8	$ 81,167	0	$ 29,030	$92,220
Freedom Elementary	$ 8,737,340	0.5%	$43,687	$ 1,443,198	2%	$28,864	$16,647	1.8	$ 126,333	0	$ 29,964	$102,515
Friant Elementary	$ 1,343,698	0.5%	$6,718	$ 179,363	2%	$3,587		1.8	$ -	0	$ -	$10,306
Fugman Elementary	$ 7,323,623	0.5%	$36,618	$ 1,524,016	2%	$30,480	$11,310	1.8	$ 76,167	0	$ 20,357	$87,456

Clovis Unified School District

Date: **Hazard:** **Flood**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Garfield Elementary	$ 8,519,275	1%	$85,193	$ 2,166,429	5%	$108,321	$25,973	3.7	$ 118,500	0	$ 96,102	$289,616
Gateway Continuation High	$ 3,467,194	0.5%	$17,336	$ 772,847	2%	$15,457	$53,965	1.8	$ 104,500	0	$ 97,136	$129,929
Gettysburg Elementary	$ 6,559,102	0.5%	$32,796	$ 1,887,486	2%	$37,750	$17,764	1.8	$ 119,000	0	$ 31,976	$102,521
Jefferson Elementary	$ 6,091,826	0.5%	$30,459	$ 1,588,619	2%	$31,772	$25,145	1.8	$ 93,333	0	$ 45,262	$107,493
Kastner Intermediate	$ 18,546,271	0.5%	$92,731	$ 3,677,016	2%	$73,540	$36,423	1.8	$ 403,639	0	$ 65,561	$231,832
Liberty Elementary	$ 6,093,237	0.5%	$30,466	$ 1,882,983	2%	$37,660	$11,858	1.8	$ 82,167	0	$ 21,345	$89,471
Lincoln Elementary	$ 6,267,489	0.5%	$31,337	$ 1,718,465	2%	$34,369	$22,070	1.8	$ 93,667	0	$ 39,726	$105,433
Maintenance/Transportation	$ 4,613,449	0.5%	$23,067	$ 947,530	2%	$18,951		1.8		0	$ -	$42,018
Maple Creek Elementary	$ 7,180,223	0.5%	$35,901	$ 2,316,774	2%	$46,335	$18,484	1.8	$ 137,333	0	$ 33,272	$115,508
Miramonte Elementary	$ 5,857,310	0.5%	$29,287	$ 1,357,855	2%	$27,157		1.8		0	$ -	$56,444
Mountain View Elementary	$ 6,996,878	0.5%	$34,984	$ 1,913,873	2%	$38,277	$2,950	1.8	$ 128,167	0	$ 5,311	$78,573
Nelson Elementary	$ 6,054,108	0.5%	$30,271	$ 1,517,111	2%	$30,342	$19,795	1.8	$ 95,500	0	$ 35,631	$96,244
Operations/Grounds	$ 574,498	0.5%	$2,872	$ 165,383	2%	$3,308		1.8		0	$ -	$6,180
Pinedale Elementary	$ 5,510,822	0.5%	$27,554	$ 1,558,990	2%	$31,180	$15,542	1.8	$ 78,500	0	$ 27,975	$86,709
Professional Development Bldg	$ 7,826,907	0.5%	$39,135	$ 1,721,116	2%	$34,422		1.8		0	$ -	$73,557
Reagan Primary	$ 2,035,200	0.5%	$10,176	$ 562,081	2%	$11,242	$5,809	1.8	$ 51,500	0	$ 10,455	$31,873
Red Bank Elementary	$ 7,031,508	0.5%	$35,158	$ 1,891,950	2%	$37,839	$15,702	1.8	$ 109,333	0	$ 28,263	$101,260
Reyburn Intermediate	$ 23,358,056	0.5%	$116,790	$ 5,406,246	2%	$108,125	$37,029	1.8	$ 450,083	0	$ 66,652	$291,567
Riverview Elementary	$ 6,921,963	0.5%	$34,610	$ 2,193,353	2%	$43,867	$14,897	1.8	$ 118,000	0	$ 26,815	$105,292

Clovis Unified School District

Date: **Hazard:** **Flood**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Security Attendance	$ 633,161	0.5%	$3,166	$ 137,910	2%	$2,758		1.8		0	$ -	$5,924
Sierra Vista Elementary	$ 6,166,987	0.5%	$30,835	$ 1,374,685	2%	$27,494	$19,466	1.8	$ 81,833	0	$ 35,038	$93,367
Tarpey Elementary	$ 6,784,119	0.5%	$33,921	$ 1,570,613	2%	$31,412	$24,790	1.8	$ 127,667	0	$ 44,623	$109,955
Temperance-Kutner Elementary	$ 6,179,695	0.5%	$30,898	$ 1,949,168	2%	$38,983	$31,267	1.8	$ 101,000	0	$ 56,281	$126,163
Valley Oak Elementary	$ 6,264,224	0.5%	$31,321	$ 1,306,636	2%	$26,133	$13,157	1.8	$ 88,500	0	$ 23,683	$81,137
Weldon Elementary	$ 6,096,064	0.5%	$30,480	$ 1,676,271	2%	$33,525	$23,824	1.8	$ 110,833	0	$ 42,883	$106,889
Woods Elementary	$ 7,167,773	0.5%	$35,839	$ 1,578,227	2%	$31,565	$13,639	1.8	$ 102,000	0	$ 24,551	$91,954
Total	$ 477,871,861	0.53%	$ 2,802,845	$ 103,714,272	2.2%	$ 2,463,002	$ 1,061,751	94	$ 8,495,733	-	$ 2,217,275	$ 7,483,123

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Clovis Unified School District

Date: **Hazard:** **Dam Failure**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Alta Sierra Intermediate	$ 20,553,991	100%	$20,553,991	$ 3,053,683	100%	$3,053,683	$41,192	365	$ 552,750	5	$ 17,798,746	$41,406,420
Buchanan High	$ 53,623,935	100%	$53,623,935	$ 7,737,106	100%	$7,737,106	$93,952	365	$ 998,250	5	$ 39,283,697	$100,644,738
Cedarwood Elementary	$ 6,891,261		$0	$ 2,120,713		$0	$16,783		$ 113,167		$ -	$0
Century Elementary	$ 7,155,741		$0	$ 3,277,039		$0	$19,217		$ 136,333		$ -	$0
Clark Intermediate	$ 22,282,839		$0	$ 3,537,574		$0	$45,204		$ 407,306		$ -	$0
Clovis Academy of Gymnastics	$ 3,549,352		$0	$ 276,860		$0					$ -	$0
Clovis Adult Education	$ 4,053,600		$0	$ 1,097,708		$0					$ -	$0
Clovis East High	$ 40,268,789		$0	$ 6,910,856		$0	$65,315		$ 847,306		$ -	$0
Clovis Elementary	$ 6,958,529		$0	$ 1,976,420		$0	$15,221		$ 99,000		$ -	$0
Clovis High	$ 37,367,134		$0	$ 7,037,044		$0	$64,423		$ 774,899		$ -	$0
Clovis West High	$ 36,616,924	50%	$18,308,462	$ 6,734,931	100%	$6,734,931	$81,207	365	$ 823,167	5	$ 33,756,310	$58,799,703
Cole Elementary	$ 5,836,828		$0	$ 1,518,876		$0	$20,671		$ 118,833		$ -	$0
Copper Hills Elementary	$ 6,475,561	50%	$3,237,781	$ 2,016,817	100%	$2,016,817	$15,790	365	$ 99,167	5	$ 6,259,138	$11,513,735
Cox Elementary	$ 5,053,286		$0	$ 1,695,690		$0	$18,718		$ 96,333		$ -	$0
District Office	$ 3,787,897		$0	$ 1,043,821		$0					$ -	$0
District Service Building	$ 1,421,067		$0	$ 318,915		$0					$ -	$0
Dry Creek Elementary	$ 6,460,477		$0	$ 1,630,392		$0	$41,712		$ 173,500		$ -	$0
Excel High	$ 396,000		$0	$ 113,573		$0	$9,849		$ 44,000		$ -	$0
Fancher Creek Elementary	$ 7,191,678		$0	$ 1,901,813		$0	$18,863		$ 133,000		$ -	$0
Fort Washington Elementary	$ 5,724,972	50%	$2,862,486	$ 1,728,247	100%	$1,728,247	$16,128	365	$ 81,167	5	$ 6,292,526	$10,883,259
Freedom Elementary	$ 8,737,340		$0	$ 1,443,198		$0	$16,647		$ 126,333		$ -	$0
Friant Elementary	$ 1,343,698		$0	$ 179,363		$0			$ -		$ -	$0
Fugman Elementary	$ 7,323,623	100%	$7,323,623	$ 1,524,016	100%	$1,524,016	$11,310	365	$ 76,167	5	$ 4,508,857	$13,356,496

Clovis Unified School District

Date: **Hazard:** **Dam Failure**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Garfield Elementary	$ 8,519,275	100%	$8,519,275	$ 2,166,429	100%	$2,166,429	$25,973	365	$ 118,500	5	$ 10,072,820	$20,758,524
Gateway Continuation High	$ 3,467,194		$0	$ 772,847		$0	$53,965		$ 104,500		$ -	$0
Gettysburg Elementary	$ 6,559,102		$0	$ 1,887,486		$0	$17,764		$ 119,000		$ -	$0
Jefferson Elementary	$ 6,091,826		$0	$ 1,588,619		$0	$25,145		$ 93,333		$ -	$0
Kastner Intermediate	$ 18,546,271	100%	$18,546,271	$ 3,677,016	100%	$3,677,016	$36,423	365	$ 403,639	5	$ 15,312,429	$37,535,716
Liberty Elementary	$ 6,093,237	50%	$3,046,619	$ 1,882,983	100%	$1,882,983	$11,858	365	$ 82,167	5	$ 4,739,147	$9,668,749
Lincoln Elementary	$ 6,267,489	100%	$6,267,489	$ 1,718,465	100%	$1,718,465	$22,070	365	$ 93,667	5	$ 8,523,885	$16,509,839
Maintenance/Transportation	$ 4,613,449		$0	$ 947,530		$0					$ -	$0
Maple Creek Elementary	$ 7,180,223	50%	$3,590,112	$ 2,316,774	100%	$2,316,774	$18,484	365	$ 137,333	5	$ 7,433,394	$13,340,280
Miramonte Elementary	$ 5,857,310		$0	$ 1,357,855		$0	$17,541		$ 108,333		$ -	$0
Mountain View Elementary	$ 6,996,878	50%	$3,498,439	$ 1,913,873	100%	$1,913,873	$2,950	365	$ 128,167	5	$ 1,717,724	$7,130,036
Nelson Elementary	$ 6,054,108	100%	$6,054,108	$ 1,517,111	100%	$1,517,111	$19,795	365	$ 95,500	5	$ 7,702,737	$15,273,956
Operations/Grounds	$ 574,498		$0	$ 165,383		$0					$ -	$0
Pinedale Elementary	$ 5,510,822	100%	$5,510,822	$ 1,558,990	100%	$1,558,990	$15,542	365	$ 78,500	5	$ 6,065,231	$13,135,043
Professional Development Bldg	$ 7,826,907		$0	$ 1,721,116		$0					$ -	$0
Reagan Primary	$ 2,035,200		$0	$ 562,081		$0	$5,809		$ 51,500		$ -	$0
Red Bank Elementary	$ 7,031,508		$0	$ 1,891,950		$0	$15,702		$ 109,333		$ -	$0
Reyburn Intermediate	$ 23,358,056		$0	$ 5,406,246		$0	$37,029		$ 450,083		$ -	$0
Riverview Elementary	$ 6,921,963	50%	$3,460,982	$ 2,193,353	100%	$2,193,353	$14,897	365	$ 118,000	5	$ 6,027,482	$11,681,816

Clovis Unified School District

Date: **Hazard:** **Dam Failure**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Security Attendance	$ 633,161		$0	$ 137,910		$0					$ -	$0
Sierra Vista Elementary	$ 6,166,987		$0	$ 1,374,685		$0	$19,466		$ 81,833		$ -	$0
Tarpey Elementary	$ 6,784,119		$0	$ 1,570,613		$0	$24,790		$ 127,667		$ -	$0
Temperance-Kutner Elementary	$ 6,179,695		$0	$ 1,949,168		$0	$31,267		$ 101,000		$ -	$0
Valley Oak Elementary	$ 6,264,224	100%	$6,264,224	$ 1,306,636	100%	$1,306,636	$13,157	365	$ 88,500	5	$ 5,244,951	$12,815,811
Weldon Elementary	$ 6,096,064		$0	$ 1,676,271		$0	$23,824		$ 110,833		$ -	$0
Woods Elementary	$ 7,167,773		$0	$ 1,578,227		$0	$13,639		$ 102,000		$ -	$0
	$ 477,871,861		$ 170,668,617	$ 103,714,272		$ 43,046,430	$ 1,079,293	5,840	$ 8,604,066	80	$ 180,739,075	$ 394,454,122

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Clovis Unified School District

Date: **Hazard:** **Fire**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Alta Sierra Intermediate	$ 20,553,991	75%	$15,415,493	$ 3,053,683	100%	$3,053,683	$41,192	200	$ 552,750	30	$ 24,820,854	$43,290,030
Buchanan High	$ 53,623,935	75%	$40,217,951	$ 7,737,106	100%	$7,737,106	$93,952	200	$ 998,250	30	$ 48,737,882	$96,692,939
Cedarwood Elementary	$ 6,891,261	75%	$5,168,446	$ 2,120,713	100%	$2,120,713	$16,783	200	$ 113,167	30	$ 6,751,552	$14,040,711
Century Elementary	$ 7,155,741	75%	$5,366,806	$ 3,277,039	100%	$3,277,039	$19,217	200	$ 136,333	30	$ 7,933,394	$16,577,239
Clark Intermediate	$ 22,282,839	75%	$16,712,129	$ 3,537,574	100%	$3,537,574	$45,204	200	$ 407,306	30	$ 21,260,022	$41,509,725
Clovis Academy of Gymnastics	$ 3,549,352	75%	$2,662,014	$ 276,860	100%	$276,860		200		30	$ -	$2,938,874
Clovis Adult Education	$ 4,053,600	75%	$3,040,200	$ 1,097,708	100%	$1,097,708		200		30	$ -	$4,137,908
Clovis East High	$ 40,268,789	75%	$30,201,592	$ 6,910,856	100%	$6,910,856	$65,315	200	$ 847,306	30	$ 38,482,216	$75,594,664
Clovis Elementary	$ 6,958,529	75%	$5,218,897	$ 1,976,420	100%	$1,976,420	$15,221	200	$ 99,000	30	$ 6,014,224	$13,209,541
Clovis High	$ 37,367,134	75%	$28,025,351	$ 7,037,044	100%	$7,037,044	$64,423	200	$ 774,899	30	$ 36,131,492	$71,193,887
Clovis West High	$ 36,616,924	75%	$27,462,693	$ 6,734,931	100%	$6,734,931	$81,207	200	$ 823,167	30	$ 40,936,366	$75,133,990
Cole Elementary	$ 5,836,828	75%	$4,377,621	$ 1,518,876	100%	$1,518,876	$20,671	200	$ 118,833	30	$ 7,699,280	$13,595,777
Copper Hills Elementary	$ 6,475,561	75%	$4,856,671	$ 2,016,817	100%	$2,016,817	$15,790	200	$ 99,167	30	$ 6,132,984	$13,006,472
Cox Elementary	$ 5,053,286	75%	$3,789,965	$ 1,695,690	100%	$1,695,690	$18,718	200	$ 96,333	30	$ 6,633,664	$12,119,319
District Office	$ 3,787,897	75%	$2,840,923	$ 1,043,821	100%	$1,043,821		200		30	$ -	$3,884,744
District Service Building	$ 1,421,067	75%	$1,065,800	$ 318,915	100%	$318,915		200		30	$ -	$1,384,715
Dry Creek Elementary	$ 6,460,477	75%	$4,845,358	$ 1,630,392	100%	$1,630,392	$41,712	200	$ 173,500	30	$ 13,547,390	$20,023,140
Excel High	$ 396,000	75%	$297,000	$ 113,573	100%	$113,573	$9,849	200	$ 44,000	30	$ 3,289,806	$3,700,379
Fancher Creek Elementary	$ 7,191,678	75%	$5,393,759	$ 1,901,813	100%	$1,901,813	$18,863	200	$ 133,000	30	$ 7,762,646	$15,058,218
Fort Washington Elementary	$ 5,724,972	75%	$4,293,729	$ 1,728,247	100%	$1,728,247	$16,128	200	$ 81,167	30	$ 5,660,594	$11,682,570
Freedom Elementary	$ 8,737,340	75%	$6,553,005	$ 1,443,198	100%	$1,443,198	$16,647	200	$ 126,333	30	$ 7,119,338	$15,115,541
Friant Elementary	$ 1,343,698	75%	$1,007,774	$ 179,363	100%	$179,363		200	$ -	30	$ -	$1,187,137
Fugman Elementary	$ 7,323,623	75%	$5,492,717	$ 1,524,016	100%	$1,524,016	$11,310	200	$ 76,167	30	$ 4,546,940	$11,563,673

Clovis Unified School District

Date: **Hazard:** **Fire**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Garfield Elementary	$ 8,519,275	75%	$6,389,456	$ 2,166,429	100%	$2,166,429	$25,973	200	$ 118,500	30	$ 8,749,696	$17,305,581
Gateway Continuation High	$ 3,467,194	75%	$2,600,396	$ 772,847	100%	$772,847	$53,965	200	$ 104,500	30	$ 13,927,940	$17,301,183
Gettysburg Elementary	$ 6,559,102	75%	$4,919,327	$ 1,887,486	100%	$1,887,486	$17,764	200	$ 119,000	30	$ 7,122,864	$13,929,677
Jefferson Elementary	$ 6,091,826	75%	$4,568,870	$ 1,588,619	100%	$1,588,619	$25,145	200	$ 93,333	30	$ 7,829,054	$13,986,543
Kastner Intermediate	$ 18,546,271	75%	$13,909,703	$ 3,677,016	100%	$3,677,016	$36,423	200	$ 403,639	30	$ 19,393,682	$36,980,401
Liberty Elementary	$ 6,093,237	75%	$4,569,928	$ 1,882,983	100%	$1,882,983	$11,858	200	$ 82,167	30	$ 4,836,688	$11,289,599
Lincoln Elementary	$ 6,267,489	75%	$4,700,617	$ 1,718,465	100%	$1,718,465	$22,070	200	$ 93,667	30	$ 7,224,010	$13,643,092
Maintenance/Transportation	$ 4,613,449	75%	$3,460,087	$ 947,530	100%	$947,530		200		30	$ -	$4,407,617
Maple Creek Elementary	$ 7,180,223	75%	$5,385,167	$ 2,316,774	100%	$2,316,774	$18,484	200	$ 137,333	30	$ 7,816,828	$15,518,769
Miramonte Elementary	$ 5,857,310	75%	$4,392,983	$ 1,357,855	100%	$1,357,855	$17,541	200	$ 108,333	30	$ 6,758,268	$12,509,106
Mountain View Elementary	$ 6,996,878	75%	$5,247,659	$ 1,913,873	100%	$1,913,873	$2,950	200	$ 128,167	30	$ 4,435,086	$11,596,618
Nelson Elementary	$ 6,054,108	75%	$4,540,581	$ 1,517,111	100%	$1,517,111	$19,795	200	$ 95,500	30	$ 6,824,034	$12,881,726
Operations/Grounds	$ 574,498	75%	$430,874	$ 165,383	100%	$165,383		200		30	$ -	$596,257
Pinedale Elementary	$ 5,510,822	75%	$4,133,117	$ 1,558,990	100%	$1,558,990	$15,542	200	$ 78,500	30	$ 5,463,346	$11,155,453
Professional Development Bldg	$ 7,826,907	75%	$5,870,180	$ 1,721,116	100%	$1,721,116		200		30	$ -	$7,591,296
Reagan Primary	$ 2,035,200	75%	$1,526,400	$ 562,081	100%	$562,081	$5,809	200	$ 51,500	30	$ 2,706,716	$4,795,197
Red Bank Elementary	$ 7,031,508	75%	$5,273,631	$ 1,891,950	100%	$1,891,950	$15,702	200	$ 109,333	30	$ 6,420,334	$13,585,915
Reyburn Intermediate	$ 23,358,056	75%	$17,518,542	$ 5,406,246	100%	$5,406,246	$37,029	200	$ 450,083	30	$ 20,908,228	$43,833,016
Riverview Elementary	$ 6,921,963	75%	$5,191,472	$ 2,193,353	100%	$2,193,353	$14,897	200	$ 118,000	30	$ 6,519,442	$13,904,267

Clovis Unified School District

Date: **Hazard:** **Fire**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Security Attendance	$ 633,161	75%	$474,871	$ 137,910	100%	$137,910		200		30	$ -	$612,781
Sierra Vista Elementary	$ 6,166,987	75%	$4,625,240	$ 1,374,685	100%	$1,374,685	$19,466	200	$ 81,833	30	$ 6,348,108	$12,348,033
Tarpey Elementary	$ 6,784,119	75%	$5,088,089	$ 1,570,613	100%	$1,570,613	$24,790	200	$ 127,667	30	$ 8,788,072	$15,446,774
Temperance-Kutner Elementary	$ 6,179,695	75%	$4,634,771	$ 1,949,168	100%	$1,949,168	$31,267	200	$ 101,000	30	$ 9,283,434	$15,867,373
Valley Oak Elementary	$ 6,264,224	75%	$4,698,168	$ 1,306,636	100%	$1,306,636	$13,157	200	$ 88,500	30	$ 5,286,480	$11,291,284
Weldon Elementary	$ 6,096,064	75%	$4,572,048	$ 1,676,271	100%	$1,676,271	$23,824	200	$ 110,833	30	$ 8,089,756	$14,338,075
Woods Elementary	$ 7,167,773	75%	$5,375,830	$ 1,578,227	100%	$1,578,227	$13,639	200	$ 102,000	30	$ 5,787,844	$12,741,901
	$ 477,871,861		$ 358,403,896	$ 103,714,272		$ 103,714,272	$ 1,079,293	9,800	$ 8,604,066	1,470	$ 473,980,554	$ 936,098,722

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Clovis Unified School District

Date: **Hazard:** **Volcanic Activity**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Alta Sierra Intermediate	$ 20,553,991	0.1%	$20,554	$ 3,053,683	0%	$0	$41,192	0	$ 552,750	0	$ -	$20,554
Buchanan High	$ 53,623,935	0.1%	$53,624	$ 7,737,106	0%	$0	$93,952	0	$ 998,250	0	$ -	$53,624
Cedarwood Elementary	$ 6,891,261	0.1%	$6,891	$ 2,120,713	0%	$0	$16,783	0	$ 113,167	0	$ -	$6,891
Century Elementary	$ 7,155,741	0.1%	$7,156	$ 3,277,039	0%	$0	$19,217	0	$ 136,333	0	$ -	$7,156
Clark Intermediate	$ 22,282,839	0.1%	$22,283	$ 3,537,574	0%	$0	$45,204	0	$ 407,306	0	$ -	$22,283
Clovis Academy of Gymnastics	$ 3,549,352	0.1%	$3,549	$ 276,860	0%	$0		0		0	$ -	$3,549
Clovis Adult Education	$ 4,053,600	0.1%	$4,054	$ 1,097,708	0%	$0		0		0	$ -	$4,054
Clovis East High	$ 40,268,789	0.1%	$40,269	$ 6,910,856	0%	$0	$65,315	0	$ 847,306	0	$ -	$40,269
Clovis Elementary	$ 6,958,529	0.1%	$6,959	$ 1,976,420	0%	$0	$15,221	0	$ 99,000	0	$ -	$6,959
Clovis High	$ 37,367,134	0.1%	$37,367	$ 7,037,044	0%	$0	$64,423	0	$ 774,899	0	$ -	$37,367
Clovis West High	$ 36,616,924	0.1%	$36,617	$ 6,734,931	0%	$0	$81,207	0	$ 823,167	0	$ -	$36,617
Cole Elementary	$ 5,836,828	0.1%	$5,837	$ 1,518,876	0%	$0	$20,671	0	$ 118,833	0	$ -	$5,837
Copper Hills Elementary	$ 6,475,561	0.1%	$6,476	$ 2,016,817	0%	$0	$15,790	0	$ 99,167	0	$ -	$6,476
Cox Elementary	$ 5,053,286	0.1%	$5,053	$ 1,695,690	0%	$0	$18,718	0	$ 96,333	0	$ -	$5,053
District Office	$ 3,787,897	0.1%	$3,788	$ 1,043,821	0%	$0		0		0	$ -	$3,788
District Service Building	$ 1,421,067	0.1%	$1,421	$ 318,915	0%	$0		0		0	$ -	$1,421
Dry Creek Elementary	$ 6,460,477	0.1%	$6,460	$ 1,630,392	0%	$0	$41,712	0	$ 173,500	0	$ -	$6,460
Excel High	$ 396,000	0.1%	$396	$ 113,573	0%	$0	$9,849	0	$ 44,000	0	$ -	$396
Fancher Creek Elementary	$ 7,191,678	0.1%	$7,192	$ 1,901,813	0%	$0	$18,863	0	$ 133,000	0	$ -	$7,192
Fort Washington Elementary	$ 5,724,972	0.1%	$5,725	$ 1,728,247	0%	$0	$16,128	0	$ 81,167	0	$ -	$5,725
Freedom Elementary	$ 8,737,340	0.1%	$8,737	$ 1,443,198	0%	$0	$16,647	0	$ 126,333	0	$ -	$8,737
Friant Elementary	$ 1,343,698	0.1%	$1,344	$ 179,363	0%	$0		0	$ -	0	$ -	$1,344
Fugman Elementary	$ 7,323,623	0.1%	$7,324	$ 1,524,016	0%	$0	$11,310	0	$ 76,167	0	$ -	$7,324

Clovis Unified School District

Date: **Hazard:** **Volcanic Activity**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Garfield Elementary	$ 8,519,275	0.1%	$8,519	$ 2,166,429	0%	$0	$25,973	0	$ 118,500	0	$ -	$8,519
Gateway Continuation High	$ 3,467,194	0.1%	$3,467	$ 772,847	0%	$0	$53,965	0	$ 104,500	0	$ -	$3,467
Gettysburg Elementary	$ 6,559,102	0.1%	$6,559	$ 1,887,486	0%	$0	$17,764	0	$ 119,000	0	$ -	$6,559
Jefferson Elementary	$ 6,091,826	0.1%	$6,092	$ 1,588,619	0%	$0	$25,145	0	$ 93,333	0	$ -	$6,092
Kastner Intermediate	$ 18,546,271	0.1%	$18,546	$ 3,677,016	0%	$0	$36,423	0	$ 403,639	0	$ -	$18,546
Liberty Elementary	$ 6,093,237	0.1%	$6,093	$ 1,882,983	0%	$0	$11,858	0	$ 82,167	0	$ -	$6,093
Lincoln Elementary	$ 6,267,489	0.1%	$6,267	$ 1,718,465	0%	$0	$22,070	0	$ 93,667	0	$ -	$6,267
Maintenance/Transportation	$ 4,613,449	0.1%	$4,613	$ 947,530	0%	$0		0		0	$ -	$4,613
Maple Creek Elementary	$ 7,180,223	0.1%	$7,180	$ 2,316,774	0%	$0	$18,484	0	$ 137,333	0	$ -	$7,180
Miramonte Elementary	$ 5,857,310	0.1%	$5,857	$ 1,357,855	0%	$0	$17,541	0	$ 108,333	0	$ -	$5,857
Mountain View Elementary	$ 6,996,878	0.1%	$6,997	$ 1,913,873	0%	$0	$2,950	0	$ 128,167	0	$ -	$6,997
Nelson Elementary	$ 6,054,108	0.1%	$6,054	$ 1,517,111	0%	$0	$19,795	0	$ 95,500	0	$ -	$6,054
Operations/Grounds	$ 574,498	0.1%	$574	$ 165,383	0%	$0		0		0	$ -	$574
Pinedale Elementary	$ 5,510,822	0.1%	$5,511	$ 1,558,990	0%	$0	$15,542	0	$ 78,500	0	$ -	$5,511
Professional Development Bldg	$ 7,826,907	0.1%	$7,827	$ 1,721,116	0%	$0		0		0	$ -	$7,827
Reagan Primary	$ 2,035,200	0.1%	$2,035	$ 562,081	0%	$0	$5,809	0	$ 51,500	0	$ -	$2,035
Red Bank Elementary	$ 7,031,508	0.1%	$7,032	$ 1,891,950	0%	$0	$15,702	0	$ 109,333	0	$ -	$7,032
Reyburn Intermediate	$ 23,358,056	0.1%	$23,358	$ 5,406,246	0%	$0	$37,029	0	$ 450,083	0	$ -	$23,358
Riverview Elementary	$ 6,921,963	0.1%	$6,922	$ 2,193,353	0%	$0	$14,897	0	$ 118,000	0	$ -	$6,922

Clovis Unified School District

Date: **Hazard:** **Volcanic Activity**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Security Attendance	$ 633,161	0.1%	$633	$ 137,910	0%	$0		0		0	$ -	$633
Sierra Vista Elementary	$ 6,166,987	0.1%	$6,167	$ 1,374,685	0%	$0	$19,466	0	$ 81,833	0	$ -	$6,167
Tarpey Elementary	$ 6,784,119	0.1%	$6,784	$ 1,570,613	0%	$0	$24,790	0	$ 127,667	0	$ -	$6,784
Temperance-Kutner Elementary	$ 6,179,695	0.1%	$6,180	$ 1,949,168	0%	$0	$31,267	0	$ 101,000	0	$ -	$6,180
Valley Oak Elementary	$ 6,264,224	0.1%	$6,264	$ 1,306,636	0%	$0	$13,157	0	$ 88,500	0	$ -	$6,264
Weldon Elementary	$ 6,096,064	0.1%	$6,096	$ 1,676,271	0%	$0	$23,824	0	$ 110,833	0	$ -	$6,096
Woods Elementary	$ 7,167,773	0.1%	$7,168	$ 1,578,227	0%	$0	$13,639	0	$ 102,000	0	$ -	$7,168
	$ 477,871,861		$ 477,872	$ 103,714,272		$ -	$ 1,079,293	-	$ 8,604,066	-	$ -	$ 477,872

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Clovis Unified School District

Date: **Hazard:** **Drought**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Alta Sierra Intermediate	$ 20,553,991	0%	$0	$ 3,053,683	0%	$0	$41,192	1	$ 552,750	1	$ 593,942	$593,942
Buchanan High	$ 53,623,935	0%	$0	$ 7,737,106	0%	$0	$93,952	1	$ 998,250	1	$ 1,092,202	$1,092,202
Cedarwood Elementary	$ 6,891,261	0%	$0	$ 2,120,713	0%	$0	$16,783	1	$ 113,167	1	$ 129,950	$129,950
Century Elementary	$ 7,155,741	0%	$0	$ 3,277,039	0%	$0	$19,217	1	$ 136,333	1	$ 155,550	$155,550
Clark Intermediate	$ 22,282,839	0%	$0	$ 3,537,574	0%	$0	$45,204	1	$ 407,306	1	$ 452,510	$452,510
Clovis Academy of Gymnastics	$ 3,549,352	0%	$0	$ 276,860	0%	$0		1		1	$ -	$0
Clovis Adult Education	$ 4,053,600	0%	$0	$ 1,097,708	0%	$0		1		1	$ -	$0
Clovis East High	$ 40,268,789	0%	$0	$ 6,910,856	0%	$0	$65,315	1	$ 847,306	1	$ 912,621	$912,621
Clovis Elementary	$ 6,958,529	0%	$0	$ 1,976,420	0%	$0	$15,221	1	$ 99,000	1	$ 114,221	$114,221
Clovis High	$ 37,367,134	0%	$0	$ 7,037,044	0%	$0	$64,423	1	$ 774,899	1	$ 839,322	$839,322
Clovis West High	$ 36,616,924	0%	$0	$ 6,734,931	0%	$0	$81,207	1	$ 823,167	1	$ 904,374	$904,374
Cole Elementary	$ 5,836,828	0%	$0	$ 1,518,876	0%	$0	$20,671	1	$ 118,833	1	$ 139,504	$139,504
Copper Hills Elementary	$ 6,475,561	0%	$0	$ 2,016,817	0%	$0	$15,790	1	$ 99,167	1	$ 114,957	$114,957
Cox Elementary	$ 5,053,286	0%	$0	$ 1,695,690	0%	$0	$18,718	1	$ 96,333	1	$ 115,051	$115,051
District Office	$ 3,787,897	0%	$0	$ 1,043,821	0%	$0		1		1	$ -	$0
District Service Building	$ 1,421,067	0%	$0	$ 318,915	0%	$0		1		1	$ -	$0
Dry Creek Elementary	$ 6,460,477	0%	$0	$ 1,630,392	0%	$0	$41,712	1	$ 173,500	1	$ 215,212	$215,212
Excel High	$ 396,000	0%	$0	$ 113,573	0%	$0	$9,849	1	$ 44,000	1	$ 53,849	$53,849
Fancher Creek Elementary	$ 7,191,678	0%	$0	$ 1,901,813	0%	$0	$18,863	1	$ 133,000	1	$ 151,863	$151,863
Fort Washington Elementary	$ 5,724,972	0%	$0	$ 1,728,247	0%	$0	$16,128	1	$ 81,167	1	$ 97,295	$97,295
Freedom Elementary	$ 8,737,340	0%	$0	$ 1,443,198	0%	$0	$16,647	1	$ 126,333	1	$ 142,980	$142,980
Friant Elementary	$ 1,343,698	0%	$0	$ 179,363	0%	$0		1	$ -	1	$ -	$0
Fugman Elementary	$ 7,323,623	0%	$0	$ 1,524,016	0%	$0	$11,310	1	$ 76,167	1	$ 87,477	$87,477

Clovis Unified School District

Date: **Hazard:** **Drought**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Garfield Elementary	$ 8,519,275	0%	$0	$ 2,166,429	0%	$0	$25,973	1	$ 118,500	1	$ 144,473	$144,473
Gateway Continuation High	$ 3,467,194	0%	$0	$ 772,847	0%	$0	$53,965	1	$ 104,500	1	$ 158,465	$158,465
Gettysburg Elementary	$ 6,559,102	0%	$0	$ 1,887,486	0%	$0	$17,764	1	$ 119,000	1	$ 136,764	$136,764
Jefferson Elementary	$ 6,091,826	0%	$0	$ 1,588,619	0%	$0	$25,145	1	$ 93,333	1	$ 118,478	$118,478
Kastner Intermediate	$ 18,546,271	0%	$0	$ 3,677,016	0%	$0	$36,423	1	$ 403,639	1	$ 440,062	$440,062
Liberty Elementary	$ 6,093,237	0%	$0	$ 1,882,983	0%	$0	$11,858	1	$ 82,167	1	$ 94,025	$94,025
Lincoln Elementary	$ 6,267,489	0%	$0	$ 1,718,465	0%	$0	$22,070	1	$ 93,667	1	$ 115,737	$115,737
Maintenance/Transportation	$ 4,613,449	0%	$0	$ 947,530	0%	$0		1		1	$ -	$0
Maple Creek Elementary	$ 7,180,223	0%	$0	$ 2,316,774	0%	$0	$18,484	1	$ 137,333	1	$ 155,817	$155,817
Miramonte Elementary	$ 5,857,310	0%	$0	$ 1,357,855	0%	$0	$17,541	1	$ 108,333	1	$ 125,874	$125,874
Mountain View Elementary	$ 6,996,878	0%	$0	$ 1,913,873	0%	$0	$2,950	1	$ 128,167	1	$ 131,117	$131,117
Nelson Elementary	$ 6,054,108	0%	$0	$ 1,517,111	0%	$0	$19,795	1	$ 95,500	1	$ 115,295	$115,295
Operations/Grounds	$ 574,498	0%	$0	$ 165,383	0%	$0		1		1	$ -	$0
Pinedale Elementary	$ 5,510,822	0%	$0	$ 1,558,990	0%	$0	$15,542	1	$ 78,500	1	$ 94,042	$94,042
Professional Development Bldg	$ 7,826,907	0%	$0	$ 1,721,116	0%	$0		1		1	$ -	$0
Reagan Primary	$ 2,035,200	0%	$0	$ 562,081	0%	$0	$5,809	1	$ 51,500	1	$ 57,309	$57,309
Red Bank Elementary	$ 7,031,508	0%	$0	$ 1,891,950	0%	$0	$15,702	1	$ 109,333	1	$ 125,035	$125,035
Reyburn Intermediate	$ 23,358,056	0%	$0	$ 5,406,246	0%	$0	$37,029	1	$ 450,083	1	$ 487,112	$487,112
Riverview Elementary	$ 6,921,963	0%	$0	$ 2,193,353	0%	$0	$14,897	1	$ 118,000	1	$ 132,897	$132,897

Clovis Unified School District

Date: **Hazard:** **Drought**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Security Attendance	$ 633,161	0%	$0	$ 137,910	0%	$0		1		1	$ -	$0
Sierra Vista Elementary	$ 6,166,987	0%	$0	$ 1,374,685	0%	$0	$19,466	1	$ 81,833	1	$ 101,299	$101,299
Tarpey Elementary	$ 6,784,119	0%	$0	$ 1,570,613	0%	$0	$24,790	1	$ 127,667	1	$ 152,457	$152,457
Temperance-Kutner Elementary	$ 6,179,695	0%	$0	$ 1,949,168	0%	$0	$31,267	1	$ 101,000	1	$ 132,267	$132,267
Valley Oak Elementary	$ 6,264,224	0%	$0	$ 1,306,636	0%	$0	$13,157	1	$ 88,500	1	$ 101,657	$101,657
Weldon Elementary	$ 6,096,064	0%	$0	$ 1,676,271	0%	$0	$23,824	1	$ 110,833	1	$ 134,657	$134,657
Woods Elementary	$ 7,167,773	0%	$0	$ 1,578,227	0%	$0	$13,639	1	$ 102,000	1	$ 115,639	$115,639
	$ 477,871,861		$ -	$ 103,714,272		$ -	$ 1,079,293	49	$ 8,604,066	49	$ 9,683,359	$ 9,683,359

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Clovis Unified School District

Date: **Hazard:** **Freezing Temperatures**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Alta Sierra Intermediate	$ 20,553,991	2.0%	$411,080	$ 3,053,683	5%	$152,684	$41,192	0	$ 552,750	1	$ 552,750	$1,116,514
Buchanan High	$ 53,623,935	2.0%	$1,072,479	$ 7,737,106	5%	$386,855	$93,952	0	$ 998,250	1	$ 998,250	$2,457,584
Cedarwood Elementary	$ 6,891,261	2.0%	$137,825	$ 2,120,713	5%	$106,036	$16,783	0	$ 113,167	1	$ 113,167	$357,028
Century Elementary	$ 7,155,741	2.0%	$143,115	$ 3,277,039	5%	$163,852	$19,217	0	$ 136,333	1	$ 136,333	$443,300
Clark Intermediate	$ 22,282,839	2.0%	$445,657	$ 3,537,574	5%	$176,879	$45,204	0	$ 407,306	1	$ 407,306	$1,029,841
Clovis Academy of Gymnastics	$ 3,549,352	2.0%	$70,987	$ 276,860	5%	$13,843		0		1	$ -	$84,830
Clovis Adult Education	$ 4,053,600	2.0%	$81,072	$ 1,097,708	5%	$54,885		0		1	$ -	$135,957
Clovis East High	$ 40,268,789	2.0%	$805,376	$ 6,910,856	5%	$345,543	$65,315	0	$ 847,306	1	$ 847,306	$1,998,225
Clovis Elementary	$ 6,958,529	2.0%	$139,171	$ 1,976,420	5%	$98,821	$15,221	0	$ 99,000	1	$ 99,000	$336,992
Clovis High	$ 37,367,134	2.0%	$747,343	$ 7,037,044	5%	$351,852	$64,423	0	$ 774,899	1	$ 774,899	$1,874,094
Clovis West High	$ 36,616,924	2.0%	$732,338	$ 6,734,931	5%	$336,747	$81,207	0	$ 823,167	1	$ 823,167	$1,892,252
Cole Elementary	$ 5,836,828	2.0%	$116,737	$ 1,518,876	5%	$75,944	$20,671	0	$ 118,833	1	$ 118,833	$311,513
Copper Hills Elementary	$ 6,475,561	2.0%	$129,511	$ 2,016,817	5%	$100,841	$15,790	0	$ 99,167	1	$ 99,167	$329,519
Cox Elementary	$ 5,053,286	2.0%	$101,066	$ 1,695,690	5%	$84,785	$18,718	0	$ 96,333	1	$ 96,333	$282,183
District Office	$ 3,787,897	2.0%	$75,758	$ 1,043,821	5%	$52,191		0		1	$ -	$127,949
District Service Building	$ 1,421,067	2.0%	$28,421	$ 318,915	5%	$15,946		0		1	$ -	$44,367
Dry Creek Elementary	$ 6,460,477	2.0%	$129,210	$ 1,630,392	5%	$81,520	$41,712	0	$ 173,500	1	$ 173,500	$384,229
Excel High	$ 396,000	2.0%	$7,920	$ 113,573	5%	$5,679	$9,849	0	$ 44,000	1	$ 44,000	$57,599
Fancher Creek Elementary	$ 7,191,678	2.0%	$143,834	$ 1,901,813	5%	$95,091	$18,863	0	$ 133,000	1	$ 133,000	$371,924
Fort Washington Elementary	$ 5,724,972	2.0%	$114,499	$ 1,728,247	5%	$86,412	$16,128	0	$ 81,167	1	$ 81,167	$282,079
Freedom Elementary	$ 8,737,340	2.0%	$174,747	$ 1,443,198	5%	$72,160	$16,647	0	$ 126,333	1	$ 126,333	$373,240
Friant Elementary	$ 1,343,698	2.0%	$26,874	$ 179,363	5%	$8,968		0	$ -	1	$ -	$35,842
Fugman Elementary	$ 7,323,623	2.0%	$146,472	$ 1,524,016	5%	$76,201	$11,310	0	$ 76,167	1	$ 76,167	$298,840

Clovis Unified School District

Date: **Hazard:** **Freezing Temperatures**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Garfield Elementary	$ 8,519,275	2.0%	$170,386	$ 2,166,429	5%	$108,321	$25,973	0	$ 118,500	1	$ 118,500	$397,207
Gateway Continuation High	$ 3,467,194	2.0%	$69,344	$ 772,847	5%	$38,642	$53,965	0	$ 104,500	1	$ 104,500	$212,486
Gettysburg Elementary	$ 6,559,102	2.0%	$131,182	$ 1,887,486	5%	$94,374	$17,764	0	$ 119,000	1	$ 119,000	$344,556
Jefferson Elementary	$ 6,091,826	2.0%	$121,837	$ 1,588,619	5%	$79,431	$25,145	0	$ 93,333	1	$ 93,333	$294,600
Kastner Intermediate	$ 18,546,271	2.0%	$370,925	$ 3,677,016	5%	$183,851	$36,423	0	$ 403,639	1	$ 403,639	$958,415
Liberty Elementary	$ 6,093,237	2.0%	$121,865	$ 1,882,983	5%	$94,149	$11,858	0	$ 82,167	1	$ 82,167	$298,181
Lincoln Elementary	$ 6,267,489	2.0%	$125,350	$ 1,718,465	5%	$85,923	$22,070	0	$ 93,667	1	$ 93,667	$304,940
Maintenance/Transportation	$ 4,613,449	2.0%	$92,269	$ 947,530	5%	$47,377		0		1	$ -	$139,645
Maple Creek Elementary	$ 7,180,223	2.0%	$143,604	$ 2,316,774	5%	$115,839	$18,484	0	$ 137,333	1	$ 137,333	$396,776
Miramonte Elementary	$ 5,857,310	2.0%	$117,146	$ 1,357,855	5%	$67,893	$17,541	0	$ 108,333	1	$ 108,333	$293,372
Mountain View Elementary	$ 6,996,878	2.0%	$139,938	$ 1,913,873	5%	$95,694	$2,950	0	$ 128,167	1	$ 128,167	$363,798
Nelson Elementary	$ 6,054,108	2.0%	$121,082	$ 1,517,111	5%	$75,856	$19,795	0	$ 95,500	1	$ 95,500	$292,438
Operations/Grounds	$ 574,498	2.0%	$11,490	$ 165,383	5%	$8,269		0		1	$ -	$19,759
Pinedale Elementary	$ 5,510,822	2.0%	$110,216	$ 1,558,990	5%	$77,950	$15,542	0	$ 78,500	1	$ 78,500	$266,666
Professional Development Bldg	$ 7,826,907	2.0%	$156,538	$ 1,721,116	5%	$86,056		0		1	$ -	$242,594
Reagan Primary	$ 2,035,200	2.0%	$40,704	$ 562,081	5%	$28,104	$5,809	0	$ 51,500	1	$ 51,500	$120,308
Red Bank Elementary	$ 7,031,508	2.0%	$140,630	$ 1,891,950	5%	$94,598	$15,702	0	$ 109,333	1	$ 109,333	$344,561
Reyburn Intermediate	$ 23,358,056	2.0%	$467,161	$ 5,406,246	5%	$270,312	$37,029	0	$ 450,083	1	$ 450,083	$1,187,556
Riverview Elementary	$ 6,921,963	2.0%	$138,439	$ 2,193,353	5%	$109,668	$14,897	0	$ 118,000	1	$ 118,000	$366,107

Clovis Unified School District

Date: **Hazard:** **Freezing Temperatures**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Security Attendance	$ 633,161	2.0%	$12,663	$ 137,910	5%	$6,896		0		1	$ -	$19,559
Sierra Vista Elementary	$ 6,166,987	2.0%	$123,340	$ 1,374,685	5%	$68,734	$19,466	0	$ 81,833	1	$ 81,833	$273,907
Tarpey Elementary	$ 6,784,119	2.0%	$135,682	$ 1,570,613	5%	$78,531	$24,790	0	$ 127,667	1	$ 127,667	$341,880
Temperance-Kutner Elementary	$ 6,179,695	2.0%	$123,594	$ 1,949,168	5%	$97,458	$31,267	0	$ 101,000	1	$ 101,000	$322,052
Valley Oak Elementary	$ 6,264,224	2.0%	$125,284	$ 1,306,636	5%	$65,332	$13,157	0	$ 88,500	1	$ 88,500	$279,116
Weldon Elementary	$ 6,096,064	2.0%	$121,921	$ 1,676,271	5%	$83,814	$23,824	0	$ 110,833	1	$ 110,833	$316,568
Woods Elementary	$ 7,167,773	2.0%	$143,355	$ 1,578,227	5%	$78,911	$13,639	0	$ 102,000	1	$ 102,000	$324,267
	$ 477,871,861		$ 9,557,437	$ 103,714,272		$ 5,185,714	$ 1,079,293	-	$ 8,604,066	49	$ 8,604,066	$ 23,347,217

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Clovis Unified School District

Date: **Hazard:** **Extreme Heat**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Alta Sierra Intermediate	$ 20,553,991	0.5%	$102,770	$ 3,053,683	0.5%	$15,268	$41,192	0	$ 552,750	0	$ -	$118,038
Buchanan High	$ 53,623,935	0.5%	$268,120	$ 7,737,106	0.5%	$38,686	$93,952	0	$ 998,250	0	$ -	$306,805
Cedarwood Elementary	$ 6,891,261	0.5%	$34,456	$ 2,120,713	0.5%	$10,604	$16,783	0	$ 113,167	0	$ -	$45,060
Century Elementary	$ 7,155,741	0.5%	$35,779	$ 3,277,039	0.5%	$16,385	$19,217	0	$ 136,333	0	$ -	$52,164
Clark Intermediate	$ 22,282,839	0.5%	$111,414	$ 3,537,574	0.5%	$17,688	$45,204	0	$ 407,306	0	$ -	$129,102
Clovis Academy of Gymnastics	$ 3,549,352	0.5%	$17,747	$ 276,860	0.5%	$1,384		0		0	$ -	$19,131
Clovis Adult Education	$ 4,053,600	0.5%	$20,268	$ 1,097,708	0.5%	$5,489		0		0	$ -	$25,757
Clovis East High	$ 40,268,789	0.5%	$201,344	$ 6,910,856	0.5%	$34,554	$65,315	0	$ 847,306	0	$ -	$235,898
Clovis Elementary	$ 6,958,529	0.5%	$34,793	$ 1,976,420	0.5%	$9,882	$15,221	0	$ 99,000	0	$ -	$44,675
Clovis High	$ 37,367,134	0.5%	$186,836	$ 7,037,044	0.5%	$35,185	$64,423	0	$ 774,899	0	$ -	$222,021
Clovis West High	$ 36,616,924	0.5%	$183,085	$ 6,734,931	0.5%	$33,675	$81,207	0	$ 823,167	0	$ -	$216,759
Cole Elementary	$ 5,836,828	0.5%	$29,184	$ 1,518,876	0.5%	$7,594	$20,671	0	$ 118,833	0	$ -	$36,779
Copper Hills Elementary	$ 6,475,561	0.5%	$32,378	$ 2,016,817	0.5%	$10,084	$15,790	0	$ 99,167	0	$ -	$42,462
Cox Elementary	$ 5,053,286	0.5%	$25,266	$ 1,695,690	0.5%	$8,478	$18,718	0	$ 96,333	0	$ -	$33,745
District Office	$ 3,787,897	0.5%	$18,939	$ 1,043,821	0.5%	$5,219		0		0	$ -	$24,159
District Service Building	$ 1,421,067	0.5%	$7,105	$ 318,915	0.5%	$1,595		0		0	$ -	$8,700
Dry Creek Elementary	$ 6,460,477	0.5%	$32,302	$ 1,630,392	0.5%	$8,152	$41,712	0	$ 173,500	0	$ -	$40,454
Excel High	$ 396,000	0.5%	$1,980	$ 113,573	0.5%	$568	$9,849	0	$ 44,000	0	$ -	$2,548
Fancher Creek Elementary	$ 7,191,678	0.5%	$35,958	$ 1,901,813	0.5%	$9,509	$18,863	0	$ 133,000	0	$ -	$45,467
Fort Washington Elementary	$ 5,724,972	0.5%	$28,625	$ 1,728,247	0.5%	$8,641	$16,128	0	$ 81,167	0	$ -	$37,266
Freedom Elementary	$ 8,737,340	0.5%	$43,687	$ 1,443,198	0.5%	$7,216	$16,647	0	$ 126,333	0	$ -	$50,903
Friant Elementary	$ 1,343,698	0.5%	$6,718	$ 179,363	0.5%	$897		0	$ -	0	$ -	$7,615
Fugman Elementary	$ 7,323,623	0.5%	$36,618	$ 1,524,016	0.5%	$7,620	$11,310	0	$ 76,167	0	$ -	$44,238

Clovis Unified School District

Date: **Hazard:** **Extreme Heat**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Garfield Elementary	$ 8,519,275	0.5%	$42,596	$ 2,166,429	0.5%	$10,832	$25,973	0	$ 118,500	0	$ -	$53,429
Gateway Continuation High	$ 3,467,194	0.5%	$17,336	$ 772,847	0.5%	$3,864	$53,965	0	$ 104,500	0	$ -	$21,200
Gettysburg Elementary	$ 6,559,102	0.5%	$32,796	$ 1,887,486	0.5%	$9,437	$17,764	0	$ 119,000	0	$ -	$42,233
Jefferson Elementary	$ 6,091,826	0.5%	$30,459	$ 1,588,619	0.5%	$7,943	$25,145	0	$ 93,333	0	$ -	$38,402
Kastner Intermediate	$ 18,546,271	0.5%	$92,731	$ 3,677,016	0.5%	$18,385	$36,423	0	$ 403,639	0	$ -	$111,116
Liberty Elementary	$ 6,093,237	0.5%	$30,466	$ 1,882,983	0.5%	$9,415	$11,858	0	$ 82,167	0	$ -	$39,881
Lincoln Elementary	$ 6,267,489	0.5%	$31,337	$ 1,718,465	0.5%	$8,592	$22,070	0	$ 93,667	0	$ -	$39,930
Maintenance/Transportation	$ 4,613,449	0.5%	$23,067	$ 947,530	0.5%	$4,738		0		0	$ -	$27,805
Maple Creek Elementary	$ 7,180,223	0.5%	$35,901	$ 2,316,774	0.5%	$11,584	$18,484	0	$ 137,333	0	$ -	$47,485
Miramonte Elementary	$ 5,857,310	0.5%	$29,287	$ 1,357,855	0.5%	$6,789	$17,541	0	$ 108,333	0	$ -	$36,076
Mountain View Elementary	$ 6,996,878	0.5%	$34,984	$ 1,913,873	0.5%	$9,569	$2,950	0	$ 128,167	0	$ -	$44,554
Nelson Elementary	$ 6,054,108	0.5%	$30,271	$ 1,517,111	0.5%	$7,586	$19,795	0	$ 95,500	0	$ -	$37,856
Operations/Grounds	$ 574,498	0.5%	$2,872	$ 165,383	0.5%	$827		0		0	$ -	$3,699
Pinedale Elementary	$ 5,510,822	0.5%	$27,554	$ 1,558,990	0.5%	$7,795	$15,542	0	$ 78,500	0	$ -	$35,349
Professional Development Bldg	$ 7,826,907	0.5%	$39,135	$ 1,721,116	0.5%	$8,606		0		0	$ -	$47,740
Reagan Primary	$ 2,035,200	0.5%	$10,176	$ 562,081	0.5%	$2,810	$5,809	0	$ 51,500	0	$ -	$12,986
Red Bank Elementary	$ 7,031,508	0.5%	$35,158	$ 1,891,950	0.5%	$9,460	$15,702	0	$ 109,333	0	$ -	$44,617
Reyburn Intermediate	$ 23,358,056	0.5%	$116,790	$ 5,406,246	0.5%	$27,031	$37,029	0	$ 450,083	0	$ -	$143,822
Riverview Elementary	$ 6,921,963	0.5%	$34,610	$ 2,193,353	0.5%	$10,967	$14,897	0	$ 118,000	0	$ -	$45,577

Clovis Unified School District

Date: **Hazard:** **Extreme Heat**

Name or Description of Building/Structure	Building/Structure Replacement Value	Percent Damage	Loss to Structure	Replacement Value of Contents	% Damage	Loss to Contents	Average Daily Operating Budget	Functional Downtime (in # Days)	Displacement Cost per Day	Displacement Time in Days	Structure Use & Function Loss	Building/Structure + Contents + Function Losses (in $)
	Loss to Structures			**Loss to Contents**			**Losses to Functions**					
Security Attendance	$ 633,161	0.5%	$3,166	$ 137,910	0.5%	$690		0		0	$ -	$3,855
Sierra Vista Elementary	$ 6,166,987	0.5%	$30,835	$ 1,374,685	0.5%	$6,873	$19,466	0	$ 81,833	0	$ -	$37,708
Tarpey Elementary	$ 6,784,119	0.5%	$33,921	$ 1,570,613	0.5%	$7,853	$24,790	0	$ 127,667	0	$ -	$41,774
Temperance-Kutner Elementary	$ 6,179,695	0.5%	$30,898	$ 1,949,168	0.5%	$9,746	$31,267	0	$ 101,000	0	$ -	$40,644
Valley Oak Elementary	$ 6,264,224	0.5%	$31,321	$ 1,306,636	0.5%	$6,533	$13,157	0	$ 88,500	0	$ -	$37,854
Weldon Elementary	$ 6,096,064	0.5%	$30,480	$ 1,676,271	0.5%	$8,381	$23,824	0	$ 110,833	0	$ -	$38,862
Woods Elementary	$ 7,167,773	0.5%	$35,839	$ 1,578,227	0.5%	$7,891	$13,639	0	$ 102,000	0	$ -	$43,730
	$ 477,871,861		$ 2,389,359	$ 103,714,272		$ 518,571	$ 1,079,293	-	$ 8,604,066	-	$ -	$ 2,907,931

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2.7 Methodology Used for Estimating Losses

Because it is impossible to accurately predict the extent of an effect of a hazard, it is impossible to accurately estimate the loss under any given scenario. The methods used to determine the percent losses for each hazard combined technical modeling tools along with historical figures, and professional estimates from specialists. In addition, mapping and GIS technology aided in estimating the potential losses.

One of the many problems encountered in forecasting extreme losses is the availability of extreme loss data. By definition, catastrophic events occur infrequently, and thus, any statistical analysis related to extreme events must deal with the probability of the underlying loss distribution, using only the scarcity of historical data. Traditional statistical methods based on the estimation of the entire density are inappropriate because these methods typically produce a good fit in those regions in which most of the data reside but at the expense of good fit in the areas where there is little or no data – as in the region of the Clovis Unified School District.

In general, the estimate of losses for each hazard event was based on:

- Description of the data from significant historical losses
- Normalization of the Data – based on an estimate of the loss as a result of a catastrophic event as if it had happened this year.
- Conservative forecasts
- Technical and Statistical tools whenever available, including the *Mitigation Benefit Cost Analysis (BCA) Toolkit* and supporting materials with BCA guidance.
- Input and analysis from CUSD Facilities Department including technical maintenance staff, GIS /Mapping staff, and Administrative staff.
- Input and analysis from City of Clovis and Fresno County Emergency Response Specialists.

2.71 Specific Hazard Estimate of Losses Methodology

Storm (Wind Damage)

All buildings within the district are at equal risk. Assuming all CUSD buildings will be affected equally, the data from historical Wind events combined with information from the CUSD Maintenance staff was used to derive the loss figures estimated.

Earthquake

All Buildings within the district are at equal risk. The FEMA HAZUS software along with the USGS mapping and probability determiners were used to estimate the potential losses based on a district wide event.

Flood

GIS, mapping software, FIRMs, and data provided by the FEMA HAZUS software were used to determine the extent of district wide losses in the case of a catastrophic flood. Estimation of losses were based on a worst case scenario for facilities within the 100 year flood zone. In addition, the tools allowed for an estimate of substantial losses to all facilities within the district. Because, according to the Fresno County General Plan Update of January 2000, updated channel analyses have not been performed to determine the amount of obstruction posed by vegetation and development in the San Joaquin River Channel, and - as such, FEMA maps depicting the 100-year floodplain for the San Joaquin River probably do not reflect the true extent and risk of flooding, a more conservative estimate of losses was established. Study results found the water surface elevation increase, on average, was about four feet higher than the FEMA 100-year floodplain mapping.

Dam Failure (Flood)

The information provided from the review of the California Department of Water Resources. *Dams Within the Jurisdiction of the State of California* DWR Bulletin 17, June 1993, The *Fresno County General Plan Update: February 2000, and The Dam Failure Evacuation Plan* for the County of Fresno were used to estimate catastrophic losses for CUSD sites within the areas described in these reports. While the probability of the event is extremely low, the estimates were made based on the event as if a dam failure were to actually occur.

Fire

Because no Fresno County CUSD district facilities are located within a Very High Fire Hazard Severity Zone (VHFHSZ), the estimation of losses was made on a per building basis. School buildings are targets for arson and vandalism and may suffer substantial fire damage as a result, although it is unlikely for this to occur on a district wide basis. Although the risk is very low, the district used historical data, fire response information, and the existence of fire suppression systems to estimate the losses for the district as a whole to determine the average loss per building estimate.

Volcanic Activity

The estimate was based on the information provided by the USGS in the event of a catastrophic volcanic eruption that may result in some flooding potential for district facilities.

Drought

All buildings within the district are at equal risk. Assuming all CUSD buildings will be affected equally, the data from historical Drought events combined with information from the CUSD Maintenance staff was used to derive the loss figures estimated.

Freeze

All buildings within the district are at equal risk. Assuming all CUSD buildings will be affected equally, the data from historical Freeze events combined with information from the CUSD Maintenance staff was used to derive the loss figures estimated.

Heat

All buildings within the district are at equal risk. Assuming all CUSD buildings will be affected equally, the data from historical Heat events combined with information from the CUSD Maintenance staff was used to derive the loss figures estimated.

Landslide Areas

GIS data and mapping tools were used to determine the effect of this hazard on district facilities.

2.8 Estimation Summary

Utilizing the tools listed Section 2.4 combined with the Risk Index Value for the Hazard Events, Table 2.2, summarizes the estimated replacement cost or estimated losses for each type of Hazard Event.

This summary is derived using the methodologies described in Section 2.7and from the analysis of assets in the Valuation Worksheets found in *Section 2.6 Valuation Data.* Firms for each district site are located in *Appendix B; FIRMs for Clovis Unified School District Sites*

Table 2.2 Estimated Replacement Cost for Maximum Expected Losses for Hazard Events

Hazard Event	Risk Index Value Descriptor	Estimated Loss Building/Structure + Contents + Function Losses (in $)
Storm (Wind) Damage	Medium	$4,778,719
Earthquake	Low	$4,813,212
Flood	Medium	$7,483,123
Dam Failure (Flood)	Low	$394,454,122
Fire	Medium	$757,549 per CUSD Bldg.
Volcanic Activity	Low	$477,872
Drought	Medium	$9,683,359
Freeze	Medium	$23,347,217
Heat	Medium	$2,907,931

2.9 Development Trends

The district has developed a draft Environmental Impact Report (EIR) for its proposed 4th Educational Center. The 4th Educational Center project consists of the acquisition of 160.46 gross acres by the Clovis Unified School District (District) and the development and operation of an educational center on the site. The project site is located between N. Leonard and N. Highland Avenues on the north and south sides of the E. Clinton Avenue alignment, Fresno County, California. The Fresno County Assessor's Parcel Numbers for the site are 310-310-14T, 310-310-39, 310-052-10T, and 310-320-01S through 08S. The educational center will include a high school (2,900-student capacity), intermediate school (1,400-student capacity), elementary school (700-student capacity) and related athletic/recreational facilities, including an 8,000-seat football stadium.

Construction of the facilities is expected to begin in approximately 5-7 years. The duration of construction is typically about 2 years; therefore, the facilities are anticipated to be completed and operational in approximately 7-9 years. The actual timing of construction will be dependent upon enrollment growth and funding availability.

The increase of people living in the area of the Clovis Unified School District in the Cities of Clovis and Fresno creates more community exposure and changes how the Cities and the District prepare for and respond to natural hazards. Increased density can affect risk. For example, narrower streets are more difficult for emergency service vehicles to navigate, the higher ratio of residents to emergency responders affects response times, and homes located closer together increase the chances of fires spreading.

The anticipated growth in population density over the next few years will create greater service loads on the built infrastructure, including roads, water supply, sewer services, and storm drains.

Philosophically, the Clovis Unified District believes that the schools are the hubs of their neighborhoods. As a result, a high priority is placed on building and maintaining excellent facilities as economically as possible. Used in the evenings and on weekends as locations for community events and organizations, the District's schools and facilities help to reinforce the importance of family and community involvement.

Development within the CUSD depends highly on the population growth of the City of Clovis and funding available to upgrade old buildings or construct new ones to accommodate demand. The District takes all precaution to follow all Local, State, and Federal building and construction regulations.

The Clovis Unified School District has Board Policy to comply with all state, local, and federal regulations that apply to school construction. The CUSD employs a department of Facilities staff with expertise in the area of developing school facilities beginning with site selection through to the final school construction. In addition, the district works closely with each community at the neighborhood and government level to ensure that schools are built to the highest safety standards.

3. Goals, Objectives, and Mitigation Strategies

Based on the results of the Hazard Assessment Process – the Clovis Unified School District developed mitigation goals and objectives and identified specific strategies to accomplish those goals and objectives. Because most CUSD facilities are in a very low to low hazard zone and the CUSD policy in site selection and construction complies with DSA guidelines and local regulations, the CUSD is already accomplishing and adopting most of the strategies described. The Clovis Unified School District strives to set a higher bar, to not only meet, but in most cases exceed requirements for safe school construction that results in a reduction in the exposure to losses from hazards. The level of care practiced by the district is well beyond the minimum standards and basic guidelines set by the California Department of Education and the Department of the State Architect. "Be the Best you can be in Mind, Body and Spirit" is the CUSD motto and that philosophy is carried through to all aspects of CUSD business. The district strives to provide safe and secure facilities for all students, staff, volunteers, stakeholders, and each local community. The CUSD facilities are planned, designed, and constructed to be both resilient and resistant to damage from hazards.

Based on this philosophy and practice, the primary focus of the plan objectives is to concentrate on communication, response, training, and data collection to better improve the fortification of district facilities.

3.1 Conclusions from the CUSD Hazard Profiles and Loss Estimation

1. The risk of damage to the buildings of the Clovis Unified School District is minimal. All school sites within the Clovis Unified School District are located within the moderate to low risk zone as defined by FEMA as Zones B, C, and X.
2. According to the *Alliance of Schools for Cooperative Insurance Programs Detailed Insurance Appraisal Report as of July 31, 2004,* 792 district buildings are not supplied with sprinklered fire protection
3. According to the *Alliance of Schools for Cooperative Insurance Programs Detailed Insurance Appraisal Report as of July 31, 2004,* 437 district buildings are not supplied with automatic fire alarm systems
4. According to the *Alliance of Schools for Cooperative Insurance Programs Detailed Insurance Appraisal Report as of July 31, 2004,* 552 district buildings are not supplied with manual fire alarm systems
5. All district facilities are susceptible to the effects of severe weather events and climate change including: wind damage, freezing temperatures, excessive heat events, and drought.
6. All district facilities are at very low risk for flood damage from catastrophic dam failures.
7. All district facilities are at medium risk for damage from wind and severe storms.

3.2 Categories of Mitigation Initiatives

The mitigation initiatives are grouped into the following categories:

- **Prevention:** Government administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions include public activities to reduce hazard losses. Examples include facility planning and capital improvement programs.
- **Property Protection**: Actions that involve the modification of existing buildings or infrastructure to protect them from a hazard or removal from the hazard area. Examples include site acquisition and hazard damage reduction activities that would lessen the damage of a disaster event.
- **Public Education and Awareness:** Actions to inform and educae citizens, elected officials, and property owners about potential risks from hazards and potential ways to mitigate them. Examples include all types of educational information that would be beneficial to either avoid hazards or deal with their effects in addition to school-age and adult education programs.
- **Natural Resource Protection:** Actions that, in addition to minimizing hazard losses also preserve or restore the functions of natural systems. Examples include preparedness activities which would take place before an event to prepare for a disaster.
- **Structural Projects:** Actions that involve the construction of structures to reduce the impact of a hazard.

3.3 Proposed Mitigation Goals

- Each category of Mitigation Initiatives has objectives that provide a more specific framework for actions to be taken by the Clovis Unified School District and its planning partners.
- The objectives define actions or results that can be placed into measurable terms, and translated into specific assignments for implementation.
- Each mitigation initiative corresponds to a specific goal and objective which that action seeks to implement.
- Many identified Mitigation Goals are on-going and currently integrated into the process and procedures for the Clovis Unified School District.

The following were proposed as initial goals and objectives of the Clovis Unified School District Pre-Disaster Mitigation plan. These were compiled from the technical analysis in addition to input from local business, community organizations, and residents:

1. <u>Prevent loss of life and injuries</u>
   A. Provide the highest degree of natural protection at the least cost by working with natural systems and using prevention as a first priority.
   B. Ensure there are adequate systems in place to provide emergency instructions during a disaster.
   C. Provide each site with guidelines for developing site specific response supplies.
   D. Enforce all state codes and standards that ensure the protection of life.
   E. Ensure that all structures in the District meet minimum standards for life safety.

2. Reduce property damage
   A. Design and retrofit essential water and sewer facilities and systems to minimize the potential for disruption during a disaster.
   B. Develop specific procedures for District maintenance staff to follow prior to predictable weather events including Freezing Temperatures, Severe Heat, and Drought.
   C. Design and retrofit essential fire protection services to minimize the potential for disruption during a disaster.
      a) Identify and assess district facilities that do not have adequate fire notification systems.
      b) Identify and assess district facilities that do not have adequate fire suppression systems.
   D. Improve internal facility resistance to damage on a site-by-site basis.
   E. Enlist the District/Site Safety Committee(s) in the identification of existing hazards at each site.
   F. Ensure existing structures are strengthened against the major hazards whenever district/site renovations are undertaken.
   G. Replace structures that are not economical to upgrade.
   H. Design critical facilities and future structures with parts that are critical to exceed seismic and other building standards.

3. Educate the public on the potential hazards, disaster preparedness, response and mitigation strategies
   A. Develop and implement education programs which explain the vulnerabilities and risks of natural hazards affecting the Clovis Unified School District, and ways to reduce their personal vulnerability to those hazards. Increase in the understanding of the importance of hazard mitigation among the CUSD community by stressing the benefits of reduced losses to life and property, the reduced cost of disaster recovery, and the increased benefit of the continuity of District operations.
   B. Develop and implement education programs which explain the mitigation initiatives to be undertaken by the Clovis Unified School District.
   C. Participate in City and County disaster drills to educate and train staff.
   D. Provide a disaster bulletin board accessible through the CUSD website with current information on response teams, training, and other resources.

4. Preserve and protect natural systems and the environment
   A. Ensure that historical assets in the District are protected from hazard events.
   B. Ensure that all mitigation projects are reviewed for compliance with all applicable environmental laws.
   C. Encourage hazard mitigation measures that result in the least adverse effect on the natural environment and that use natural processes. Accomplish this by developing a landscaping plan for each site that utilizes only those plant species identified as both drought resistant and unlikely to suffer from damage due to intermittent freeze conditions.
   D. Develop and implement wildfire mitigation and watershed protection strategies that reduce losses to wildlife and habitat and protect water while also reducing damage to development.
5. Incorporate hazard mitigation initiatives into Clovis Unified School District policies and Facility Planning Process
   A. Locate new facilities outside areas vulnerable to the impacts of natural hazards. Where this is not feasible, design these facilities so they can withstand the impacts of a disaster.
   B. Enact CUSD Policy to require that all capital projects look at improving resistance to major hazards.

6. Enhance participation in the multi-jurisdictional hazard mitigation planning process
   A. Promote hazard mitigation planning between the District and local government entities, the business community, and volunteer organizations.
   B. Update the Hazard Mitigation Plan on a regular basis, and as needed after a disaster event.
   C. Alert the CUSD community to the next update cycle of the hazard mitigation plan, and how they might become involved in that planning process.
   D. Maintain existing data as well as gather new data and information needed to define hazards, risk areas, and vulnerabilities in the Clovis Unified School District.

7. Maintain essential services, facilities, and infrastructures
   A. Ensure that each site within the district has the capability to detect emergency situations and promptly initiate emergency response options.
   B. Ensure that communications systems supporting emergency services operations can withstand the impacts of disasters. Retrofit these facilities, as needed.
   C. Ensure there are adequate systems in place to provide emergency instructions during a disaster.
   D. Rely upon a combination of state or federal grants and locally generated funds (for any required match) to implement most mitigation initiatives.

3.4 Prioritization Process

The Pre-Disaster Mitigation Planning Committee, with input from staff, technical consultants. Mapping experts, stakeholders, students, local businesses, residents and local governmental agencies, worked to prioritize the list Specific Goals/Initiatives from the initial goals and objectives. Considerations to determine the priorities included social impact, legal and political effects, environmental, and economic issues.

Each proposed item was scored by the planning team members to develop an average score for the Specific Goal/Initiative. The district considered the benefits that would result from the proposed mitigation efforts and the relative cost of completing those efforts.

The process used to prioritize mitigation strategies involved lengthy discussions of the Pre-Disaster Mitigation Planning Committee with Fresno County Fire and Clovis Fire Department, CUSD Administration, and CUSD Departments followed by extensive community review. The end result is a hazard mitigation action plan with a prioritized list of strategies the District expects to address during the next five years.

The process used by the task force involved first prioritizing goals and their respective objectives based on priority maps created during the risk assessments as well as a scoring process modeled from the STAPLEE method. Available resources and public input were also considered. Having completed this task, the CUSD PDMP Steering Committee assessed each strategy listed under the prioritized list of goals. In assessing and evaluating each strategy the task force considered the following factors:

1. The cost is justified.
2. Financial resources are available including local or outside resources.
3. Staff resources are adequate.
4. Minimal impact on Clovis Unified School District's primary function – student education.
5. Strategies are currently being addressed through existing CUSD programs.
6. Strategies mitigate risks for the Hazard Events with a RIV of Medium.
7. Strategies reflect the proposed goals and objectives.

Adequate resources for all activities to be accomplished at once are not available to the District. Because some have better cost effectiveness, and timing among activities with outside events and situations may be critical, efforts were made to prioritize the Goals/Initiatives supported by the CUSD Pre-Disaster Hazard Mitigation Plan.

Table 3.0 Proposed Specific Goals/Initiative for the Pre-Disaster Mitigation Plan

Specific Goal or Initiative 5-Very important 4-Somewhat important 3-Average importance 2-Slightly important 1-Not at all important	Score	Part of an existing CUSD Process or Policy
Prevent Loss of Life and Injuries		
1. Provide the highest degree of natural protection at the least cost by working with natural systems and using prevention as a first priority.	3.22	
2. Ensure there are adequate systems in place to provide emergency instructions during a disaster.	4.67	Yes
3. Provide each site with guidelines for developing site specific response supplies.	3.56	
4. Enforce all state codes and standards that ensure the protection of life (e.g. fire extinguishers maintenance, etc)	4.33	Yes
5. Ensure that all structures in the District meet minimum standards for life safety.	4.44	Yes
Reduce Property Damage		
6. Design and retrofit essential water and sewer facilities and systems to minimize the potential for disruption during a disaster.	3.44	Yes
7. Develop specific procedures for District maintenance staff to follow prior to predictable weather events including Freeze and Drought.	3.78	
8. Design and retrofit essential fire protection services to minimize the potential for disruption during a disaster.	3.56	Yes
9. Identify and assess district facilities that do not have adequate fire notification systems.	4.67	
10. Identify and assess district facilities that do not have adequate fire suppression systems.	4.56	
11. Improve internal facility resistance to damage on a site-by-site basis.	3.00	
12. Enlist the District/Site Safety Committee(s) in the identification of existing hazards at each site.	3.78	
13. Ensure existing structures are strengthened against the major hazards whenever district/site renovations are undertaken.	3.11	Yes
14. Replace structures that are not economical to upgrade.	2.67	Yes
15. Design critical facilities and future structures with parts that are critical to exceed seismic and other building standards.	3.89	Yes
Incorporate District Planning Goals with Hazard Mitigation Goals		
16. Develop and implement education programs which explain the vulnerabilities and risks of natural hazards affecting the Clovis Unified School District, and ways to reduce their personal vulnerability to those hazards. The will result in an increase in the understanding of the importance of hazard mitigation among the CUSD community, stressing the benefits of reduced losses to life and property, the reduced cost of disaster recovery, and the increased benefit of the continuity of District operations.	2.89	
17. Develop and implement education programs which explain the mitigation initiatives to be undertaken by the Clovis Unified School District.	2.89	
18. Participate in City and County disaster drills to educate and train staff.	4.33	Yes
19. Provide a disaster bulletin board accessible through the CUSD website with current information on response teams, training, and other resources.	2.78	

Preserve and Protect Natural Systems and the Environment		
20. Ensure that historical assets in the District are protected from hazard events.	1.22	Yes
21. Ensure that all mitigation projects are reviewed for compliance with all applicable environmental laws.	3.33	Yes
22. Encourage hazard mitigation measures that result in the least adverse effect on the natural environment and that use natural processes. Accomplish this by developing a landscaping plan for each site that utilizes only those plant species identified as both drought resistant and unlikely to suffer from damage due to intermittent freeze conditions.	2.89	Yes
23. Develop and implement wildfire mitigation and watershed protection strategies that reduce losses to wildlife and habitat and protect water while also reducing damage to development.	3.22	
Incorporate Hazard Mitigation Initiatives into CUSD Policies		
24. Locate new facilities outside areas vulnerable to the impacts of natural hazards. Where this is not feasible, design these facilities so they can withstand the impacts of a disaster.	3.00	
25. Enact CUSD Policy to require that all capital projects look at improving resistance to major hazards.	4.22	
26. Promote hazard mitigation planning between the District and local government entities, the business community, and volunteer organizations.	4.67	Yes
27. Update the hazards mitigation plan on a regular basis, and as needed after a disaster event.	3.89	
28. Alert the CUSD community to the next update cycle of the hazard mitigation plan, and how they might become involved in that planning process.	2.78	
29. Maintain existing data as well as gather new data and information needed to define hazards, risk areas, and vulnerabilities in the Clovis Unified School District.	3.89	
Maintain Essential Services, Facilities and Infrastructures		
30. Ensure that each site within the district has the capability to detect emergency situations and promptly initiate emergency response options.	4.89	
31. Ensure that communications systems supporting emergency services operations can withstand the impacts of disasters. Retrofit or relocate these facilities, as needed.	4.67	
32. Ensure there are adequate systems in place to provide emergency instructions during a disaster.	4.67	
33. Rely upon a combination of state, or federal grants and locally generated funds (for any required match) to implement most mitigation initiatives.	4.22	Yes

3.5 First Priority Goals/Initiatives

The following Initiatives scored 4 or better and will be the first priority of the Clovis Unified School Districts Pre-Disaster Mitigation Plan. Some of these goals are currently being accomplished through existing Clovis Unified School District Policy or process.

Priority	Description of Goal	New Bldgs/Structures addressed	Existing Bldgs/Structures addressed
1	Ensure that each site within the district has the capability to detect emergency situations and promptly initiate emergency response options.	Yes	Yes
2	Ensure there are adequate systems in place to provide emergency instructions during a disaster.	Yes	Yes
3	Identify and assess district facilities that do not have adequate fire notification systems.	n/a	Yes
4	Promote hazard mitigation planning between the District and local government entities, the business community, and volunteer organizations.	n/a	n/a
5	Ensure that communications systems supporting emergency services operations can withstand the impacts of disasters. Retrofit or relocate these facilities, as needed.	Yes	Yes
6	Ensure that all structures in the District meet minimum standards for life safety	Yes	Yes
7	Enforce all state codes and standards that ensure the protection of life (eg fire extinguishers maintenance, etc).	Yes	Yes
8	Participate in City and County disaster drills to educate and train staff.	Yes	Yes
9	Enact CUSD Policy to require that all capital projects look at improving resistance to major hazards.	Yes	n/a
10	Rely upon a combination of state, or federal grants and locally generated funds (for the required match) to implement most mitigation initiatives.	n/a	n/a

3.6 Second Priority Goals/Initiatives

The following initiatives scored between 3.0 and 4.0 and will be the second priority of the Pre-Disaster Mitigation Plan. These activities, if not already incorporated into existing Clovis Unified School District Policies or processes will be addressed after the first priority items are completed.

Priority	Description of Goal	New Bldgs/Structures addressed	Existing Bldgs/Structures to be addressed
11	Design critical facilities and future structures with parts that are critical to exceed seismic and other building standards.	Yes	n/a
12	Update the hazards mitigation plan on a regular basis, and as needed after a disaster event.	n/a	n/a
13	Maintain existing data as well as gather new data and information needed to define hazards, risk areas, and vulnerabilities in the Clovis Unified School District.	n/a	n/a
14	Develop specific procedures for District maintenance staff to follow prior to predictable weather events including Freeze and Drought.	Yes	Yes
15	Enlist the Site Safety Committee(s) in the identification of existing hazards at each site.	Yes	Yes
16	Provide each site with guidelines for developing site specific response supplies	Yes	Yes
17	Design and retrofit essential fire protection services to minimize the potential for disruption during a disaster.	Yes	Yes
18	Design and retrofit essential water and sewer facilities and systems to minimize the potential for disruption during a disaster.	Yes	Yes
19	Ensure that all mitigation projects are reviewed for compliance with all applicable environmental laws.	Yes	Yes
20	Provide the highest degree of natural protection at the least cost by working with natural systems and using prevention as a first priority.	Yes	Yes
21	Develop and implement wildfire mitigation and watershed protection strategies that reduce losses to wildlife and habitat and protect water while also reducing damage to development.	Yes	Yes
22	Ensure existing structures are strengthened against the major hazards whenever district/site renovations are undertaken.	n/a	Yes
23	Improve internal facility resistance to damage on a site-by-site basis.	Yes	Yes
24	Locate new facilities outside areas vulnerable to the impacts of natural hazards. Where this is not feasible, design these facilities so they can withstand the impacts of a disaster.	Yes	n/a

3.7 Alternate Goals/Initiatives

The following initiatives scored the lowest and will not be addressed in the Pre-Disaster Mitigation Plan at this time. However, many of these items are currently part of existing Clovis Unified School District Policy or Process.

Priority	Description of Goal	New Bldgs/Structures addressed	Existing Bldgs/Structures to be addressed
25	Develop and implement education programs which explain the vulnerabilities and risks of natural hazards affecting the Clovis Unified School District, and ways to reduce their personal vulnerability to those hazards. This will result in an increase in the understanding of the importance of hazard mitigation among the CUSD community, stressing the benefits of reduced losses to life and property, the reduced cost of disaster recovery, and the increased benefit of the continuity of District operations.	n/a	n/a
26	Develop and implement education programs which explain the mitigation initiatives to be undertaken by the Clovis Unified School District.	n/a	n/a
27	Encourage hazard mitigation measures that result in the least adverse effect on the natural environment and that use natural processes. Accomplish this by developing a landscaping plan for each site that utilizes only those plant species identified as both drought resistant and unlikely to suffer from damage due to intermittent freeze conditions.	Yes	Yes
28	Provide a disaster bulletin board accessible through the CUSD website with current information on response teams, training, and other resources.	n/a	n/a
29	Alert the CUSD community to the next update cycle of the hazard mitigation plan, and how they might become involved in that planning process.	n/a	n/a
30	Replace structures that are not economical to upgrade.	n/a	Yes
31	Ensure that historical assets in the District are protected from hazard events.	n/a	Yes

3.8 Capability Assessment - Implementation through Existing Programs

The following practices, ordinances, and policies are current steps practiced by the Clovis Unified School District to facilitate the mitigation process. The following plan, programs, and services are used in a proactive manner to stand as preventative measures for the entire CUSD community.

A. Comprehensive Safe School Plan

SB 187 requires that each school within a district over 2,501 ADA, develop a Safe School Plan. This plan should include:

- Assessment of school crimes committed on school campuses and at school related functions.
- Identification of appropriate strategies and programs that will provide or maintain a high level of school safety and address the schools' procedures for complying with existing laws related to school safety. These strategies include:
  - Child Abuse Reporting Procedures.
  - Disaster Procedures.
  - School Discipline Policies.
  - Procedures To Notify Teachers Of Dangerous Pupils.
  - Sexual Harassment Policy.
  - School Wide Dress Code.
  - Procedures For Safe Ingress And Egress Of Pupils, Parents And School Employees To And From School.
  - Programs And Strategies To Provide A Safe And Orderly Environment.

The plan must be evaluated and amended, as needed, at least once per year.

B. CUSD Emergency and Disaster Preparedness Plan

School administrators have the responsibility to ensure the safety of their students and staff in an emergency, whether it's an earthquake, a flood, or a terrorism incident. Developing emergency plans and training staff in emergency response procedures is required by law.

The Katz Act [Sections 35295-35297 of the *California Education Code*] requires that schools plan for earthquakes and other emergencies.

The Petris Bill [Section 8607 of the *California Government Code*] requires that school districts be prepared to respond to emergencies using the Standardized Emergency Management System (SEMS). This necessitates that the principles of SEMS be incorporated in plans, that all school personnel be trained in how the system works, and that schools have drills and exercises in order to practice using the system.

The Clovis Unified School District complies with both the Katz Act and the Petris Bill in the development of each school site's Emergency and Disaster Preparedness Plan and the Clovis Unified School District Plant Operations Emergency Procedures Response Plan

CUSD Emergency and Disaster Preparedness Plan-Specific Components

Earthquake Preparedness

In 1984 the state legislature passed the Katz Act to require that schools establish an earthquake emergency system. This law [Sections 35295-35297 of the *Education Code*] applies to the governing boards of public and/or private elementary and high schools that have school buildings with over 50 students or more than one classroom, and to all county school superintendents. In 1988, the legislature amended the law to require that training in earthquake preparedness procedures should be for both certificated and classified staff. In compliance with the requirements of the law, CUSD developed the following:

A disaster plan – district and site specific - to maintain the safety and care of students and staff. The plan outlines emergency roles, procedures for students and staff, and appropriate, ongoing training for all employees and students.

- Conducts periodic drills in the "drop and cover" procedure, the evacuation procedure, and other emergency response actions (such as search and rescue, communications, and damage assessment) to train students and staff. Simple drills should be held once a quarter in elementary schools and once a semester in secondary schools; more complicated drills should be held once or twice a year.
- Provides training programs to ensure that staff and students are aware of, and properly trained to follow, your plan and the emergency response procedures.
- Is prepared to have the school site serve as a possible public shelter for the community during disasters or emergencies.
- Takes mitigation measures now to ensure the safety of students and staff, and the viability of the school facility during and after an earthquake or other emergency.

Emergency Response

As a result of the 1991 East Bay Hills fire, the Petris Bill was passed to improve emergency response in California. Effective January 1, 1993, Section 8607 of the *California Government Code* requires that state and local governments, and special districts such as schools, respond to disasters using the Standardized Emergency Management System (SEMS). By December of 1996, each responding organization must use SEMS or risk losing state assistance funds for emergency response-related personnel costs. Using SEMS also includes planning, training, and exercising [*California Code of Regulation* î2400-2450].

CUSD complies with the SEMS requirement that each organization understands and uses the following:

- The Incident Command System, a method of organizing any emergency response effort into five basic functions: command, planning/intelligence, operations, logistics, and finance/administration.
- An Emergency Operations Center (or Incident Command Post in the field), the staff of which is organized according to the same five functions as the Incident Command System.
- Coordination of the school district Emergency Operations Center with the Operational Area (county) Emergency Operations Center, or with city Emergency Operations Centers and/or county Offices of Education, as needed. .
- Incorporation of SEMS into all school plans, training, and exercises.
- Documentation of the use of SEMS in planning, training, exercising, and during an actual emergency

Disaster Service Workers
California Government Code Section 3100 declares that public employees are disaster service workers, subject to such disaster service activities as may be assigned to them by their superiors or by law. The term public employees include all persons employed by the state or any county, city, city and county, state agency or public district, excluding aliens legally employed. This law applies to public school employees in the following cases: 1) when a local emergency has been proclaimed, 2) when a state emergency has been proclaimed, or 3) when a federal disaster declaration has been made.

CUSD employees may be pressed into service as Disaster Service Workers by their superiors, and may be asked to do jobs other than their usual duties for periods of time exceeding their normal working hours. CUSD Emergency and Disaster Preparedness Plan elements comply with the requirements in both the Educational Code and the Government Code.

Post-Disaster Shelters
Schools are required by both federal statute and state regulation to be available for shelters following a disaster. The American Red Cross has access to schools in damaged areas to set up their mass care facilities, and local governments have a right to use schools for the same purposes. This requires close cooperation between school officials and ARC or local government representatives, and has been planned and arranged for by agreement. CUSD used the *Schools as Shelters: Planning and Management Guidelines for Districts and Sites*; from the California OES as a guide.

Clovis Unified School District Plant Operations Emergency Procedures Response Plan
This plan has been developed to assist the Maintenance and Operations Department is utilized effectively to deal with both site specific events as well as CUSD district-wide events.
The objectives of this existing plan are:

- To ensure Emergency Response Procedures meet both the moral and legal responsibilities of the Clovis Unified School District to the students, staff, and citizens of the district.
- To provide effective actions to minimize injuries and loss of life among students and school personnel in case of natural and man-made disaster during school hours.
- To provide for the maximum utilization of school personnel and facilities to care for disaster victims.
- To protect school property.

The Clovis Unified School District Plant Operations Emergency Procedures Response Plan:

- Provides a basis for the conduct and coordination of school operations and management during emergencies natural and man-made.
- Establish esan understanding of the authority, responsibilities, functions, and operations during periods of emergencies.
- Provides a basis for inclusion of district resources into the county/state emergency organization to meet unforeseeable emergency requirements.

The following aspects are incorporated into the above plans:

- Evacuation Drills
- Earthquake Drills
- Fire Drills
- Community Emergency Response Team Trainings through the Clovis City Fire Department
- First Aid Training
- CPR/AED Training
- School Safety Site Plans – incorporated into the CUSD Comprehensive Safe Schools Plan
- District-wide Safety Plan

Additional efforts and considerations are addressed and integrated into existing district policies and procedures:

- Modernization Efforts
- Storm Water Management
- Zoning Management
- Erosion Management
- Floodplain Management
- Elevation Certificates Maintained
- National Flood Insurance Program
- Established Building Codes
- Type of Building Codes: California Building Code
- Local Electric Utilities: Pacific Gas & Electric
- Local Water Utilities
- Local Sewage Treatment Utilities
- Local Natural Gas Utilities
- Local Telephone Utilities: AT&T
- Fire Insurance Rating: ISO Rating, Class 1

Many of the goals are currently being accomplished because they are part of current facility planning or use requirements for CUSD facilities. On-going activities already in place at the Clovis Unified School District are indicated in Table 3.0 Proposed Specific Goals/Initiative for the Pre-Disaster Mitigation Plan. In addition the scored value for each proposed initiative is indicated.

Clovis Unified School District addresses statewide planning goals and legislative requirements through its Facilities Master Plan. The Pre-Disaster Mitigation Plan provides a series of recommendations that are closely related to the goals and objectives of existing planning programs, including the Site Selection Plan, the 10-year Facilities Master Plan, the CUSD Comprehensive Safe Schools Plan, and the Emergency and Disaster Preparedness Plan. The Clovis Unified School District will have the on-going opportunity to implement recommended mitigation action items through existing programs and procedures.

3.9 Capability Assessment – Funding Resources

In 1986, the California Legislature authorized school districts to levy school impact or developer fees on residential and commercial/industrial development for the purpose of funding the construction or reconstruction of school facilities. The basis of the school facilities legislation is the relationship between new development, and the impact on school districts to provide adequate school facilities for the student population new development generates. The authority for the District's assessment of developer fees is set forth in Education Code Section 17620, pursuant to Government Code 65995.

The Adopted Budget represents a continuation of District educational programs through the Governing Board's three aims which are to:

- Maximize student achievement
- Ensure a safe and positive learning environment where CHARACTER COUNTS!
- Operate with increasing efficiency and effectiveness

The Budget process starts in January of each year with the State of the State Address by the Governor and continues through his Adopted Budget plan for the coming fiscal year. Clovis Unified School District, like most school districts in California, is dependent upon the State for much of its revenue each year. The District's Adopted Budget revenue projection is developed based on the State Budget, along with the District's student enrollment projection for the budget year.

On March 2, 2004, voters in Clovis Unified School District approved Measure A. The $168 million bond measure will be combined with state bond funds and developer fees to produce $246 million of projects throughout the district. The measure is structured so that the current tax rate of 19.75 cents per $100 of assessed valuation will not change. Measure A extends the maturity of the district's current bonds to 2029.

Funds from Measure A will finance the district's fifth comprehensive high school and intermediate school, three new elementary schools and the purchase of one additional elementary school site. Building additions, remodels, and/or site improvements will take place at all district schools.

With the passage of Measure A, the CUSD Governing Board has committed to the community that there will be no other bond request until 2010 at the earliest.

As required by the California Constitution, the proceeds from the sale of the bonds will be used only for the construction, reconstruction, rehabilitation or replacement of school facilities, including the furnishing and equipping of school facilities, or the acquisition or lease of real property for school facilities, and not for any other purpose, including teacher and administrator salaries and other school operating expenses. The District intends to complete the projects, using a combination of funding sources, totaling approximately $246.11 million. It is anticipated that bond proceeds will contribute $168 million to said total cost. Other anticipated sources include developer fees, interest on investments, State funding (if available), reimbursements from other agencies, and available capital facility funds.

The CUSD has a department staffed with grant writers and project development specialists that work with school sites, local communities, community organizations, governmental agencies – including both State and Federal, and CUSD affiliated organizations to access available funds to improve school safety, school facilities, and improved educational opportunities. An example of a grant funding source is the California Integrated Waste Management Board and its recycling playground products grant. Other grants through the Department of Justice, the City of Clovis, the County of Fresno, the California Department of Forestry, and other agencies may become available periodically as the district moves forward in implementing mitigation projects and strategies.

3.10 Economic Analysis of Mitigation Projects

The analysis of each strategy involved the process of evaluating the benefit of the strategy while considering the relative cost. This process involved:

- Determining how one type of action may cost more or less than another and results in the achievement of the same benefit.
- Demonstrating a funding source for each mitigation project to determine feasibility.
- Showing that the economic and safety goals of the CUSD are better served by one mitigation project when compared to another.

An approach to identify costs and benefits associated with natural hazard mitigation strategies or projects fall into two general categories: benefit/cost analysis and cost-effectiveness analysis. Conducting benefit/cost analysis for a mitigation activity may assist CUSD in determining whether a project is worth undertaking now, in order to avoid disaster-related damages later. Cost-effectiveness analysis evaluates how best to spend a given amount of money to achieve a specific goal. Determining the economic feasibility of mitigating natural hazards can provide decision makers with an understanding of the potential benefits and costs of an activity, as well as a basis upon which to compare alternative projects.

Mitigation activities reduce the cost of disasters by minimizing property damage, injuries, and the potential for loss of life, and by reducing emergency response costs, which would otherwise be incurred.

Evaluating mitigation projects is a complex and difficult undertaking, which is influenced by many variables.

First, natural disasters affect all segments of the communities they strike, including individuals, businesses, and public services such as fire, police, utilities, and schools.

Second, while some of the direct and indirect costs of disaster damages are measurable, some of the costs are non-financial and difficult to quantify in dollars.

Third, many of the impacts of such events produce "ripple-effects" throughout the community, greatly increasing the disaster's social and economic consequences.

3.10.1 Benefit/Cost Analysis

Benefit/cost analysis is used in natural hazards mitigation to show if the benefits to life and property protected through mitigation efforts exceed the cost of the mitigation activity. Conducting benefit/cost analysis for a mitigation activity can assist communities in determining whether a project is worth undertaking now, in order to avoid disaster related damages later. Benefit/cost analysis is based on calculating the frequency and severity of a hazard, avoided future damages, and risk.

In benefit/cost analysis, all costs and benefits are evaluated in terms of dollars, and a net benefit/cost ratio is computed to determine whether a project should be implemented (i.e., if net benefits exceed net costs, the project is worth pursuing). A project must have a benefit/cost ratio greater than 1 in order to be funded. Benefit/cost analysis is complicated, and the numbers may divert attention from other important issues. It is important to consider the qualitative factors of a project associated with mitigation that cannot be evaluated economically.

3.10.2 Cost-Effectiveness Analysis

Cost-effectiveness analysis evaluates how best to spend a given amount of money to achieve a specific goal. This type of analysis, however, does not necessarily measure costs and benefits in terms of dollars.

The following tables include the Comparative Cost Measurement, the responsible department, the potential funding source, and the implementation timeline.

3.11 Summary of Cost Economic Analysis

The Clovis Unified School District's Pre-Disaster Mitigation Plan utilizes a Comparative Cost Measurement. In Table 3.8 Mitigation Plan Funding and Responsibility for First Priority Goals and Table 3.9 Mitigation Plan Funding and Responsibility for Second Priority Goals, the cost is categorized as Low Cost, Medium Cost, or High Cost.

- Low Cost projects are estimated to cost between $0 to $5,000.
- Medium Cost are hose projects that are estimated to cost between $5,000 and $25,000.
- High-Cost Projects are estimated to cost greater than $25,000.

Table 3.8 Mitigation Plan Funding and Responsibility for First Priority Goals

Specific Initiative	Hazard Event to be Addressed	Funding Source	Responsible CUSD Department	Timeline	Comparative Costs $0 $5,000 – Low $5,000 to $25,000 Medium >$25,000 - High-
1. Ensure that each site within the district has the capability to detect emergency situations and promptly initiate emergency response options.	All Hazard Events	General Fund	School Sites, Facility Services	Years one and two	Medium
2. Ensure there are adequate systems in place to provide emergency instructions during a disaster.	All Hazard Events	General Fund	School Sites, Facility Services	On-Going	Medium
3. Identify and assess district facilities that do not have adequate fire notification systems.	Fire	General Fund	Plant Operations	Year one	Low
4. Promote hazard mitigation planning between the District and local government entities, the business community, and volunteer organizations.	All Hazard Events	General Fund	Facility Services	On-going and continue into Year one	Low
5. Ensure that communications systems supporting emergency services operations can withstand the impacts of disasters. Retrofit or relocate these facilities, as needed.	All Hazard Events	General Fund	Plant Operations	Year one	Medium
6. Ensure that all structures in the District meet minimum standards for life safety.	All Hazard Events	General Fund	Plant Operations	On-Going	Medium
7. Enforce all state codes and standards that ensure the protection of life (e.g. fire extinguishers maintenance, etc).	All Hazard Events	General Fund	Facility Services	On-Going	Low
8. Participate in City and County disaster drills to educate and train staff.	All Hazard Events	General Fund	All School Sites and District Departments	On-going and continue into Year one	Low
9. Enact CUSD Policy to require that all capital projects look at improving resistance to major hazards.	All Hazard Events	General Fund	District Administration and Governing Board	Years one and two	Low
10. Rely upon a combination of state, or federal grants and locally generated funds (for the required match) to implement most mitigation initiatives.	All Hazard Events	Grants	All District Departments and School Sites	On-Going	Low

Table 3.9 Mitigation Plan Funding and Responsibility for Second Priority Goals

Specific Initiative	Hazard Event to be Addressed	Funding Source	Responsible CUSD Department	Timeline	Comparative Costs $0 $5,000 – Low $5,000 to $25,000 Medium >$25,000 - High-
11. Design critical facilities and future structures with parts that are critical to exceed seismic and other building standards.	All Hazard Events	General Fund	School sites, Facility Services	On-Going	High
12. Update the hazards mitigation plan on a regular basis, and as needed after a disaster event.	All Hazard Events	General Fund	School sites, Facility Services	Years one- five	Medium
13. Maintain existing data as well as gather new data and information needed to define hazards, risk areas, and vulnerabilities in the Clovis Unified School District	Fire	General Fund	Facility Services	Year two	Medium
14. Develop specific procedures for District maintenance staff to follow prior to predictable weather events including Freeze and Drought.	Weather Events: Drought, Freeze, Heat	General Fund	Facility Services	Year One	Low
15. Enlist the Site Safety Committee(s) in the identification of existing hazards at each site.	All Hazard Events	General Fund	Plant Operations	Years One and Two	Low
16. Provide each site with guidelines for developing site specific response supplies.	All Hazard Events	General Fund	Plant Operations	Year one	Low
17. Design and retrofit essential fire protection services to minimize the potential for disruption during a disaster.	Fire	General Fund	Plant Operations	On-going and continue to Years One, Two and Three	High
18. Design and retrofit essential water and sewer facilities and systems to minimize the potential for disruption during a disaster.	All Hazard Events	General Fund	Plant Operations	On-going and continue to Years One, Two and Three	HIgh
19. Ensure that all mitigation projects are reviewed for compliance with all applicable environmental laws.	All Hazard Events	General Fund	Facility Services	On-going and continue to Years One, Two and Three	High
20. Provide the highest degree of natural protection at the least cost by working with natural systems and using prevention as a first priority.	All Hazard Events	General Fund	All School Sites and District Departments	Years 2-3	High
21. Develop and implement wildfire mitigation and watershed protection strategies that reduce losses to wildlife and habitat and protect water while also reducing damage to development.	Fire	General Fund	Facility Services	Year 4	High
22. Ensure existing structures are strengthened against the major hazards whenever district/site renovations are undertaken.	All Hazard Events	Grants	All District Departments and School Sites	On-Going and Years 1-5	High
23. Improve internal facility resistance to damage on a site-by-site basis.	All Hazard Events	General Fund	School Sites	Years 1-5	High
24. Locate new facilities outside areas vulnerable to the impacts of natural hazards. Where this is not feasible, design these facilities so they can withstand the impacts of a disaster.	All Hazard Events	General Fund	Facility Services	On-Going	HIgh

3.11 NFIP

- District structures and overall development of district facilities are designed to be fully compliant with the community's floodplain management regulations.
- All district structures are in compliance and documentation is complete with an elevation certificate, other certifications, or other evidence of compliance.
- Specific strategies (Priority # 9, #'s20-22 and #24) will assist the district in addressing continued compliance with NFIP (National Flood Insurance Program).
    - Enact CUSD Policy to require that all capital projects look at improving resistance to major hazards.
    - Provide the highest degree of natural protection at the least cost by working with natural systems and using prevention as a first priority.
    - Develop and implement wildfire mitigation and watershed protection strategies that reduce losses to wildlife and habitat and protect water while also reducing damage to development.
    - Ensure existing structures are strengthened against the major hazards whenever district/site renovations are undertaken.
    - Locate new facilities outside areas vulnerable to the impacts of natural hazards. Where this is not feasible, design these facilities so they can withstand the impacts of a disaster by insuring finished floor elevations are adequate for the applicable Zone.

4.0 Adoption and Implementation of the Plan

4.1 Implementation

Strategies undertaken and completed will be evaluated as to their effectiveness on an annual basis. Those activities not completed during the first year will be re-evaluated and included in the next year, if still appropriate.

Even though individual strategies have been assigned a principal contact to ensure implementation, overall responsibility, oversight and general monitoring of the action plan has been assigned to the Assistant Superintendent, Business Services.

This action plan serves as a guide to spending priorities but will be adjusted periodically to reflect current needs and financial resources. Some strategies will require outside funding to implement. If outside funding is not available the strategy will be set aside until new sources of funding can be identified. In these situations the Clovis Unified School District will consider other options such as the District's general fund and bonding (potentially after 2010). Then, based on the availability of funds, the District will determine which strategies should be continued and which should be set aside, at least temporarily.

4.2 Evaluating and Updating the Plan

The Clovis Unified School District's Pre-Disaster Mitigation Plan will be evaluated on an annual basis, in August of each year, to determine the effectiveness of the mitigation efforts, and to reflect changes in the CUSD environment that may affect mitigation priorities.

The evaluation will assess the following:

1. Determine if the goals and objective address current and expected conditions.
2. Whether or not the nature, magnitude, and/or types of risks have changed,
3. Determine if there have been or are any technical, legal, political, social, or coordination issues with stakeholders and other agencies.
4. Determine if the outcomes have ocurred as expected – has CUSD demonstrated progress.
5. Determine the level of participation by affected sites, departments and outside agencies.

4.2.1 Specific Responsibilities for Implementation

1. The Business Services Department will be responsible for monitoring and evaluating the progress of the mitigation strategies in the Plan.

2. The District Business Services Department and Facilities Department will work with the City of Fresno, The City of Clovis, and the County of Fresno to assist them with the development of their respective entities own hazard mitigation plan and to incorporate the requirements of the CUSD Plan.

3. The District Business Services Department will review the goals and action items to determine their relevance to changing situations in the District, as well as changes in State or Federal policy, and to ensure they are addressing current and expected conditions.

4. The CUSD Business Services Department will also review the risk assessment portion of the Plan to determine if this information should be updated or modified, given any new available data.

5. The specific departments responsible for the various action items (prioritized initiatives) will report on the status of their projects, the success of various implementation processes, difficulties encountered, success of coordination efforts, and which strategies should be revised.

6. The Assistant Superintendent, Business Services will assign the duty of updating the plan to one or more of the Steering Committee members. The CUSD Governing Board will have the opportunity to review and amend the plan, as necessary, annually in August of each year. This will allow for an evaluation of the previous year's activities to be assessed, the district to make any changes or modifications to the projects, and to, whenever possible, designate specific supplemental funding for projects/initiatives that are scheduled for the upcoming year.

After five years, subject to available funding, the updated plan will be submitted to the State Hazard Mitigation Officer and the Federal Emergency Management Agency for review.

The CUSD Pre-Disaster Mitigation Plan has identified these procedures to monitor, evaluate, and update the mitigation plan and track the mitigation activities. This will assist the district in updating each section of the plan according to the schedule.

4.3 Continued Public Involvement

The Plan Draft was posted on the website **http://www.cusd.com/pdmpc/** for 60 days, beginning September 1, 2008 to allow for review and input by the CUSD community.

Clovis Unified School District is dedicated to involving the public directly in review and updates of the Hazard Mitigation Plan. The Business Services Department is responsible for the review and updating of the plan.

The public also has the opportunity to provide feedback about the adopted Plan. An electronic version of the CUSD Pre-Disaster Mitigation Plan and supporting appendices will be maintained on the District website at **http://www.cusd.com/pdmpc/** This website site includes an email address and phone number to which people can direct their comments and concerns. In addition, the website offers useful links and information about planning for disasters.

In addition, a copy of the plan will be available for review and comment at the Business Services Office at the District Administration Building, 1450 Herndon Ave. Clovis, CA 93611

A public hearing will also be held after each annual evaluation or when deemed necessary by the Business Services Department. The meetings will provide the public a forum for which they can express its concerns, opinions, or ideas about the Plan. Notice of the Public Hearings will be posted on the CUSD Pre-Disaster Mitigation Plan website and published in the *CUSD Today.*

As part of the CUSD planning process, the community review and analysis of the method and schedule for monitoring and updating the plan – the strengths and weaknesses, as well any elements that may have changed will be incorporated into plan updates.

4.4 Plan Adoption

The final Plan was sent to the Clovis Unified School District Governing Board for approval. Upon approval, copies will be sent to OES and FEMA.

Resolution No. 3070 was adopted on April 9, 2008 by the Clovis Unified School District Governing Board.

RESOLUTION NO. 3070
BEFORE THE GOVERNING BOARD
OF THE CLOVIS UNIFIED SCHOOL DISTRICT
FRESNO COUNTY, CALIFORNIA

IN THE MATTER OF FEMA SPONSORED)
PRE-DISASTER MITIGATION PLAN)
DEVELOPMENT TO ALL THE CLOVIS)
UNIFIED SCHOOL DISTRICT TO HAVE)
THE OPPORTUNITY TO TAKE MEASURES)
TO PROTECT LIVES AND PROPERTY)
FROM FUTURE DISASTERS)

WHEREAS, the President signed DMA2000 (Public Law 106-390 on October 30, 2000; and

WHEREAS, the Disaster Mitigation Act of 2000 requires public agencies to develop detailed, formal, short and long-range plans to mitigate disaster exposures that could otherwise cause devastating property damage and community disruption; and

WHEREAS, the California Office of Emergency Services and the Federal Emergency Management Agency awarded funding to Clovis Unified School District under the 2005 Pre-Disaster Mitigation (PDM) Grant Program and Multi-Jurisdictional Local Hazard Mitigation Plan; and

WHEREAS, in order to identify and obtain the resources available for the disaster mitigation planning, the Clovis Unified School District created a planning committee to develop a Pre-Disaster Mitigation Plan.

NOW, THEREFORE, BE IT RESOLVED, that Resolution No. 3070 be approved adopting the Clovis Unified School District's Pre-Disaster Mitigation Plan.

THE FOREGOING RESOLUTION was adopted by the Governing Board of the Clovis Unified School District of Fresno County; State of California at a meeting of said Board held on the 9th day of April, 2008, by the following vote, to-wit:

AYES: **Bengel, Heryford, Hovsepian, Sandoval, Van Volkinburg**

NOES: **None**

ABSENT: **Lake, Walker**

ABSTAIN: **None**

Brian Heryford, President
Governing Board
Clovis Unified School District
Fresno County, California

CERTIFIED AS A TRUE AND CORRECT COPY:

Richard Lake, C.P.A., Clerk
Governing Board
Clovis Unified School District
Fresno County, California

#3070 MJ/tg: 03-26-08

Glossary of Terms

Active Fault – As defined by the California Division of Mines and Geology, a fault that has shown displace within Holocene time (last 11,000 years). For planning purposes, such faults can be expected to move within the next hundred years.

Alluvial – Pertaining to or composed of alluvium, or deposited by a stream or running water.

Alluvium – A general term for clay, silt, sand, gravel, or similar unconsolidated detrital material deposited during comparatively recent geological time by a stream or other body of running water as a sort of semi-sorted sediment in the bed of the stream or on its flood plain or delta, or as a cone or fan at the base of the mountain.

Aquifer – A water-bearing bed of stratum of permeable rock, sand, or gravel capable of yielding considerable amount of water to wells of springs.

Compaction – Reduction in bulk volume or thickness of, or the pore space within, a body of fine-grained sediments in response to the increasing weight of overlying material that is continually being deposited, or to the pressure resulting from the earth movements within the crust. It is expressed as a decrease in porosity brought about by a thicker packing of the sediment particles.

Detachment Fault - Where the dip of a normal fault's surface is very gentle or almost flat, it is referred to as a **detachment fault** or low-angle normal fault. Detachment faults are common in the desert areas of California.

Dip-Slip Fault - Faults on which the movement is parallel to the dip of the fault surface. Normal faults are dip-slip faults on which the hanging wall (the rocks above the fault surface) move down relative to the footwall (the rocks below the fault surface). Normal faults are the result of extension (forces that pull rocks apart). Where the dip of a normal fault's surface is steep, it is called a high-angle normal fault, or simply a normal fault. The Owens Valley and the Sierra Nevada fault zones are examples of high-angle normal faults. Together they produce a down-dropped block which forms the Owens Valley. This type of fault-bounded valley is called a **graben**. A fault-bounded ridge is called a **horst**.

Earthquake – Perceptible trembling to violent shaking of the ground, produced by sudden displacement of rock below and at the earth's surface.

Epicenter – An area of the surface of the earth directly above the focus (true center of an earthquake), within which the strain energy is first converted to elastic wave energy of an earthquake.

Erosion – Movement of material (such as soil) from one place to another on the earth's surface. Agents of movement include water, ice, wind, and gravity.

Expansion (Shrink-Swell) Potential – The relative volume change in a soil with a gain in moisture. Expansive soils are those that greatly increase in volume when they absorb water and shrink when they dry out.

Fault – A fracture in the earth's crust accompanied by a displacement of one side with respect to the other and in a direction parallel to the fracture. Faults and fault zones are classified by how the rocks on each side of the fault or fault zone move past each other. There are two main types of movement along faults: 1) a sideways movement called strike slip, and 2) an up or down movement called dip slip.

Fault System – Two or more interconnecting fault sets.

Fault Trace – The intersection of a fault with the earth's surface.

Fault Zone – A zone in which surface disruption or rock fracture has occurred due to movement along a fault. A fault zone may be expressed as an area with numerous small fractures, **breccia** (essentially, fractured rock) as a **fault gouge**. A fault zone may be anywhere from a few meters (or yards) to two or more kilometers (1mile or more) wide.

Fire Hazard Zone – An area where, due to slope, fuel, weather, or other fire-related conditions, the potential loss of life and property from a fire necessitates special fire protection measures and planning before development occurs.

Floodplain – As defined by the Federal Emergency Management Agency, any land area susceptible to being inundated by water from any source. The 100-year flood (base flood) has a one percent chance of being equaled or exceeded in any given year.

Ground Failure – Mudslide, landslide, liquefaction, of the seismic compaction of soils.

Groundshaking – When movement occurs along a fault, the energy generated is released as waves, which cause groundshaking. Groundshaking intensity varies with the magnitude of the earthquake, the distance from the epicenter, and the type of rock or sediment through which the seismic waves move. The strongest ground motion, or groundshaking, typically occurs near the epicenter of the earthquake and attenuates (diminishes) as the seismic waves move away from the epicenter. In general, loose or soft saturated sediments amplify groundshaking more than dense or stiff soils or bedrock materials.

Holocene – a period of geologic time since the last ice age in North America, approximately 11,000 years.

Inactive Fault – A fault which shows no evidence of movement in recent geologic time and no potential for movement in the relatively near future.

Inferred Fault – A fault whose location is based largely on qualitative knowledge of the geologic characteristics of the location and for which no known surface displacement has been observed or quantified.

Intensity (of an earthquake) – A measure of the effects of earthquake waves on people, structures, and earth's surface at a particular place. The intensity at a specific point depends not only upon the strength of the earthquake, or the earthquake magnitude, but also upon the distance from the point to the epicenter and the local geology. Intensity may be contrasted with magnitude, which is a measure of the total energy released by an earthquake.

Landslide – A general term for relatively rapid mass movement, such as slump, rock slide, debris slide, mudflow, and earthflow.

Lateral Spreading – The movement of loose soils over horizontal or low-angle slopes into open areas, caused by ground motion during an earthquake.

Liquefaction – A process whereby soil is temporarily transformed to a fluid form during intense and prolonged groundshaking or because of a sudden shock or strain.

Magnitude (earthquake) – A measure of the strength of an earthquake or the strain energy released by it, as determined by seismographic observations and mathematical calculations.

Maximum Credible Earthquake (MCE) – As defined by the California Division of Mines and Geology, the largest earthquake (measured in magnitude on the Richter Scale) that appears to be reasonably capable of occurring under the presently known geologic framework.

% g - When acceleration acts on a physical body, the body experiences the acceleration as a force. The force we are most experienced with is the force of gravity, which caused us to have weight. The units of acceleration of the map are measured in terms of g, the acceleration due to gravity. An acceleration of 11 feet per second per second is 11*12*2.54 = 335 cm/sec/sec. The acceleration due to gravity is 980 cm/sec/sec, so an acceleration of 11 feet/sec/sec is about 335/980 = 0.34 g. Expressed as a percent, 0.34 g is 34 % g.

% g Related to Building Damage - Pre-1940 dwellings are likely to perform poorly in earthquake shaking. Pre-1975 dwellings are likely to have some vulnerability to earthquake shaking. Some post-1985 dwellings, built to California earthquake standards, have experienced severe shaking (60 % g) with only chimney damage and damage to contents.

10 % g Value - On average it corresponds to Modified Mercalli Intensities VI to VII, levels of threshold damage, in California, for ground motions within 25 km of the earthquake epicenter. This value should not be used in the case of particular buildings, because the relation between intensity and peak acceleration is quite variable, for more distant sites, longer duration ground motions may cause damage at lower acceleration values, and buildings differ greatly in their vulnerability.

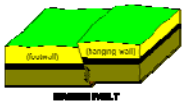
Peak Ground Acceleration - When you push on the gas pedal in your car, you experience the increase in velocity as a force pushing you back into your seat. Technically, then, acceleration is the rate of increase in velocity, that is, how much the velocity changes in a unit time. Personally, we are most aware of acceleration by the experience of an applied force. So, consider a car increasing in speed from a stop to 60 miles an hour. 60 miles per hour is 88 feet per second. If the acceleration is uniform (constant) while the car increases speed, we could say that if the car reaches a velocity of 88 feet per second in 8 seconds, the velocity changes by 11 feet per second every second, and the acceleration is 11 feet per second per second. If the acceleration were not uniform, but started off small, achieved a maximum, and then decreased as we approached 60 miles an hour, the largest value of the acceleration would be the "peak" acceleration.

Peak Acceleration as a Measure of Earthquake Ground Motion - A small particle attached to the earth during an earthquake will be moved back and forth rather irregularly. This movement can be described by its changing position as a function of time, or by its changing velocity as a function of time, or by its changing acceleration as a function of time. Since any one of these descriptions can be obtained from any other, we may choose whichever is most convenient. Acceleration is chosen, because the building codes prescribe how much horizontal force building should be able to withstand during an earthquake. This force is related to the ground acceleration. The peak acceleration is the maximum acceleration experienced by the particle during the course of the earthquake motion.

Potentially Active Fault – As defined by the California Division of Mines and Geology, a fault that has shown displacement during Quaternary time (last 1.6 million years).

Probability of Exceedance or PE - For any given site on the map, the computer calculates the ground motion effect (peak acceleration) at the site for all the earthquake locations and magnitudes believed possible in the vicinity of the site. Each of these magnitude-location pairs is believed to happen at some average probability per year. Small ground motions are relatively likely, large ground motions are very unlikely. Beginning with the largest ground motions and proceeding to smaller, we add up probabilities until we arrive at a total probability corresponding to a given probability, P, in a particular period of time, T. The probability P comes from ground motions larger than the ground motion at which we stopped adding. The corresponding ground motion (peak acceleration) is said to have a P probability of exceedance (PE) in T years. The map contours the ground motions corresponding to this probability at all the sites in a grid covering the U.S. Thus the maps are not actually probability maps, but rather ground motion hazard maps at a given level of probability.

Quaternary – a period of geologic time from 1.6 million years to the present.



Reverse faults are dip-slip faults in which the hanging wall moves up relative to the footwall. Reverse faults are the result of compression (forces that push rocks together). The Sierra Madre fault zone of southern California is an example of reverse-fault movement. There the rocks of the San Gabriel Mountains are being pushed up and over the rocks of the San Fernando and San Gabriel valleys. Movement on the Sierra Madre fault zone is part of the process that created the San Gabriel Mountains.

Spectral Acceleration – SA - SA is approximately what is experienced by a building, as modeled by a particle mass on a massless vertical rod having the same natural period of vibration as the building. The mass on the rod behaves about like a simple harmonic oscillator (SHO). If one "drives" the mass-rod system at its base, using the seismic record, and assuming a certain damping to the mass-rod system, one will get a record of the particle motion which basically "feels" only the components of ground motion with periods near the natural period of this SHO. If we look at this particle seismic record we can identify the maximum displacement. If we take the derivative (rate of change) of the displacement record with respect to time we can get the velocity record. The maximum velocity can likewise be determined. Similarly for response acceleration (rate of change of velocity) also called response spectral acceleration, or simply spectral acceleration, SA (or Sa).

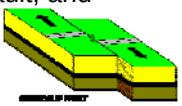
Seiche – A standing wave (periodic oscillation) produced in a body of water such as a reservoir, lake, or harbor, by wind, atmospheric changes, or earthquakes.

Seismic – Pertaining to earthquake or earth vibration, including those that are artificially induced.

Settlement – Physical rearrangement of soil materials caused by a reduction in void space between the particles, resulting in a less stable alignment of individual minerals.

State Responsibility Area (SRA) – Areas in which the California State Board of Forestry has determined that the State has financial responsibility for fire prevention and suppression.

Strike-Slip Fault-The movement along a **strike-slip fault** is approximately parallel to the strike of the fault, meaning the rocks move past each other horizontally. The San Andreas is a strike-slip fault that has displaced rocks hundreds of miles. As a result of horizontal movement along the fault, rocks of vastly different age and composition have been placed side by side. The San Andreas Fault is a fault zone rather than a single fault, and movement may occur along any of the many fault surfaces in the zone. The surface effects of the San Andreas Fault zone can be observed for over 600 miles (1,000 km).



Subsidence – Gradual settling or sinking of the earth's surface with little or no horizontal motion, usually as the result of the withdrawal of oil, natural gas, or groundwater, or hydrocompaction.

Surface Rupture – An observable break in the ground surface and associated deformation resulting from movement along a fault.

Thrust Fault - a reverse fault with a gently-dipping fault surface. Thrust faults are very common in the Klamath Mountains of northern California.

Water Table – The upper surface of saturated earth material below which all materials are saturated.

Wildland – A non-urban, natural area that contains uncultivated land, timber, range, watershed, brush, or grasslands.

Acronyms

Acronym	Meaning
ARB	Air Resources Board
BLM	Bureau of Land Management
Cal	EPA California Environmental Protection Agency
CBSC	California Building Standards Commission
CDF	California Department of Forestry and Fire Protection
CDHS	California Department of Health Services
CDI	California Department of Insurance
CFR	Code of Federal Regulations
CGS	California Geological Survey
CGS	California Geological Survey
CISN	California Integrated Seismic Network
CNG	California National Guard
CRS	Community Rating System
CSSC	California Seismic Safety Commission
DFG	State Department of Fish and Game
DGS	State Department of General Services
DWR	Department of Water Resources
FDA	U.S. Food and Drug Administration
FEAT	Flood Emergency Action Team
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FMA	Flood Mitigation Assistance
GIS	Geographic Information System
HMGP	Hazard Mitigation Grant Program
IA	Individual Assistance
LHMP	Local Hazard Mitigation Plan
NFIP	National Flood Insurance Program
NOAA	National Oceanic and Atmospheric Administration
NRCS	National Resources Conservation Service
OES	Governor's Office of Emergency Services
OPR	Governor's Office of Planning and Research
OSHPD	Office of Statewide Health Planning and Development
PA	Public Assistance
PDM	Pre-Disaster Mitigation Program
PUC	Public Utilities Commission
SEMS	Standardized Emergency Management System
SFHA	Special Flood Hazard Area
SHMO	State Hazard Mitigation Officer
SWRCB	State Water Resources Control Board
US	EPA U.S. Environmental Protection Agency
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

Appendix A: Sources of Information

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Appendix B: FIRMs for Clovis Unified School District Sites

Flood Insurance Rate Maps-FIRMettes-for CUSD Sites

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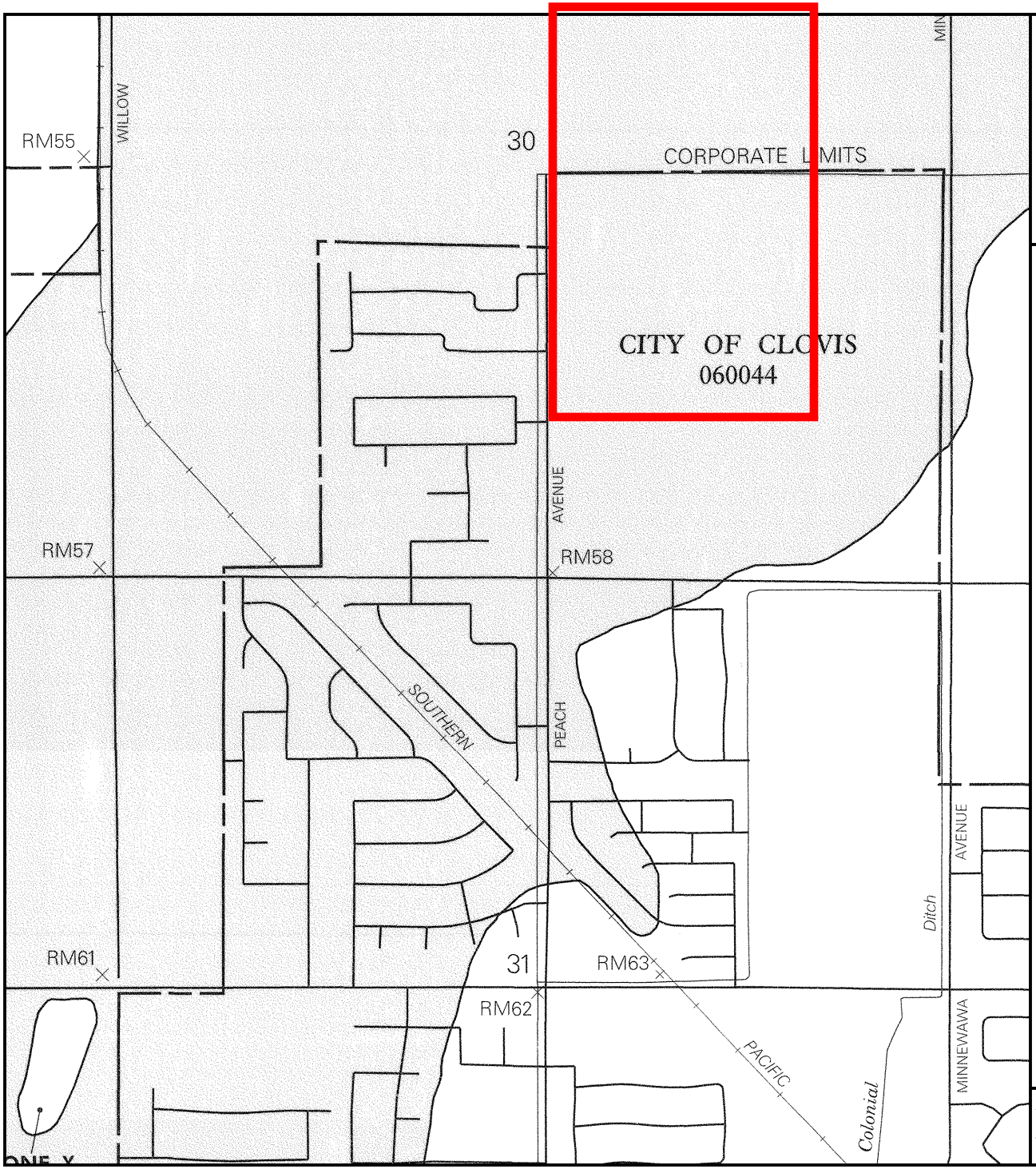

APPROXIMATE SCALE IN FEET

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NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1580 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1580	F
FRESNO, CITY OF	060048	1580	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1580	F

MAP NUMBER
06019C1580 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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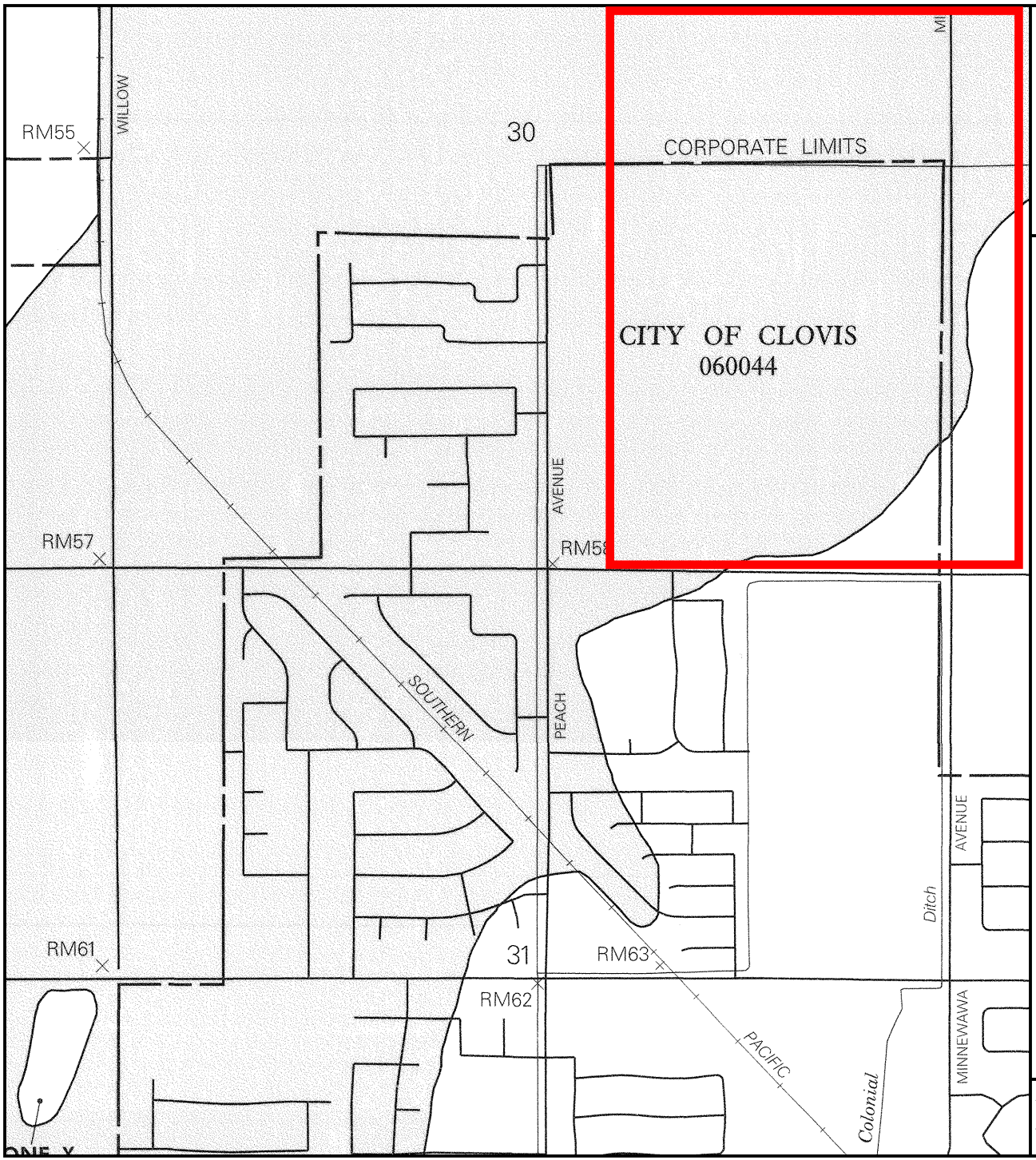

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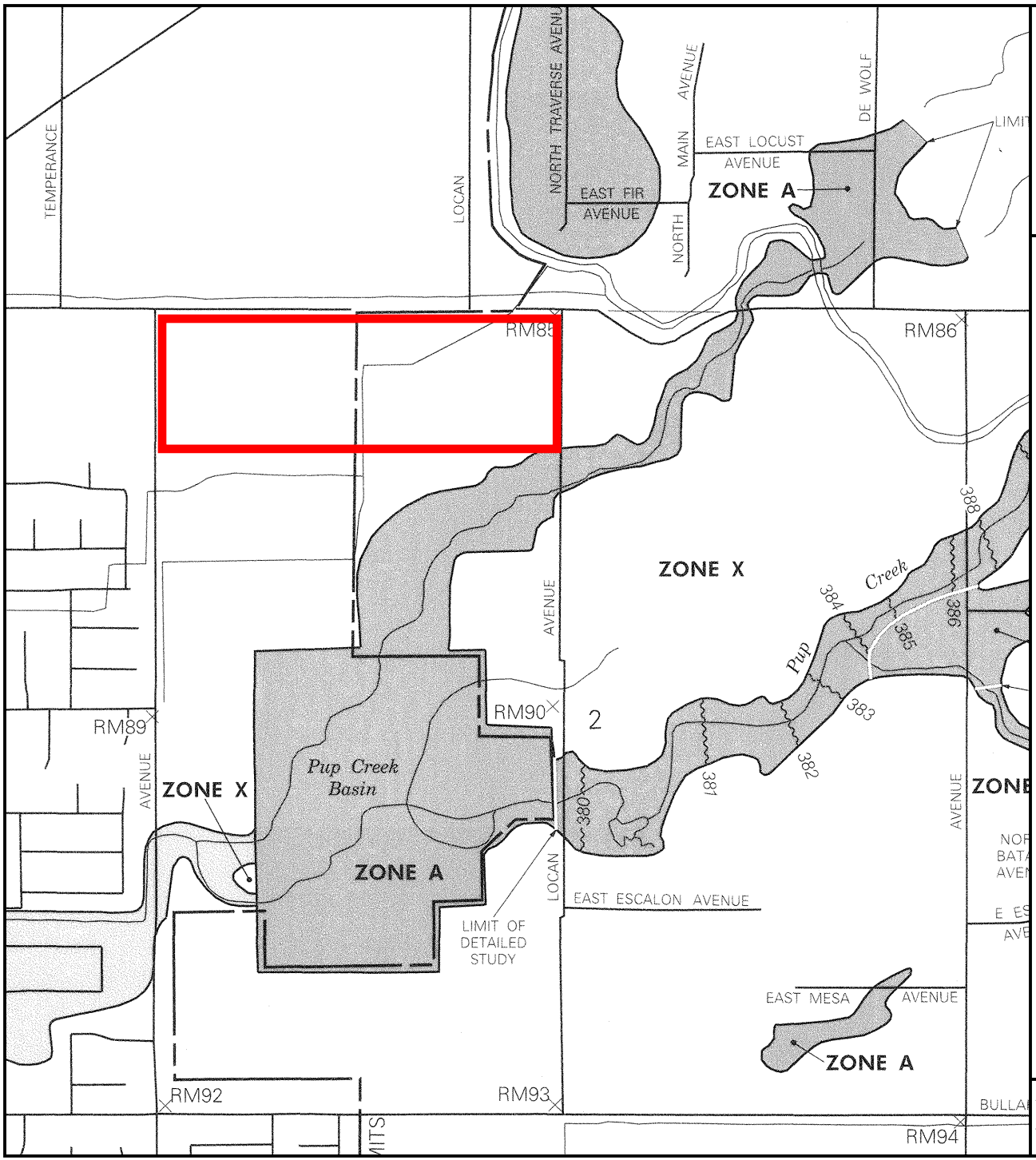

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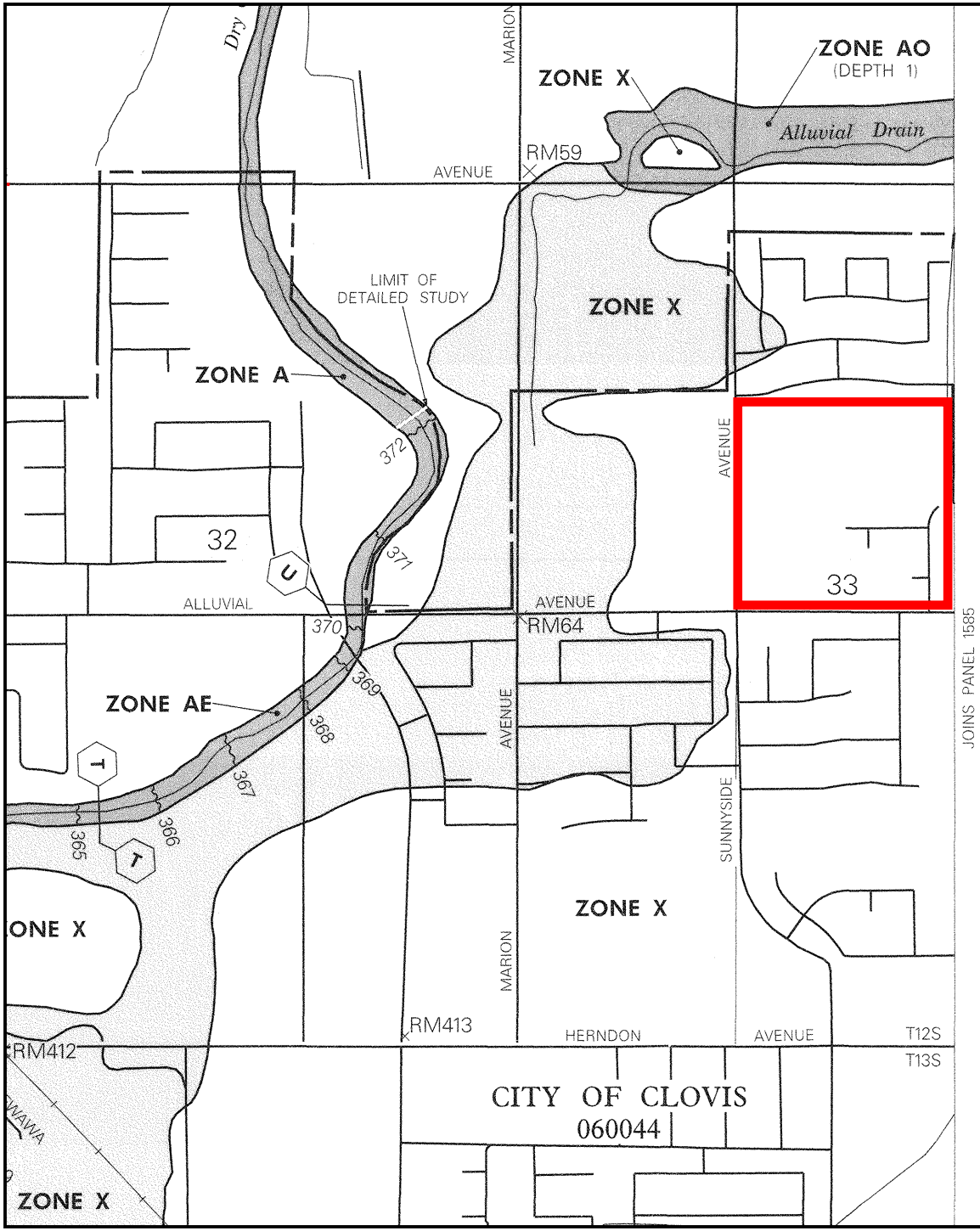

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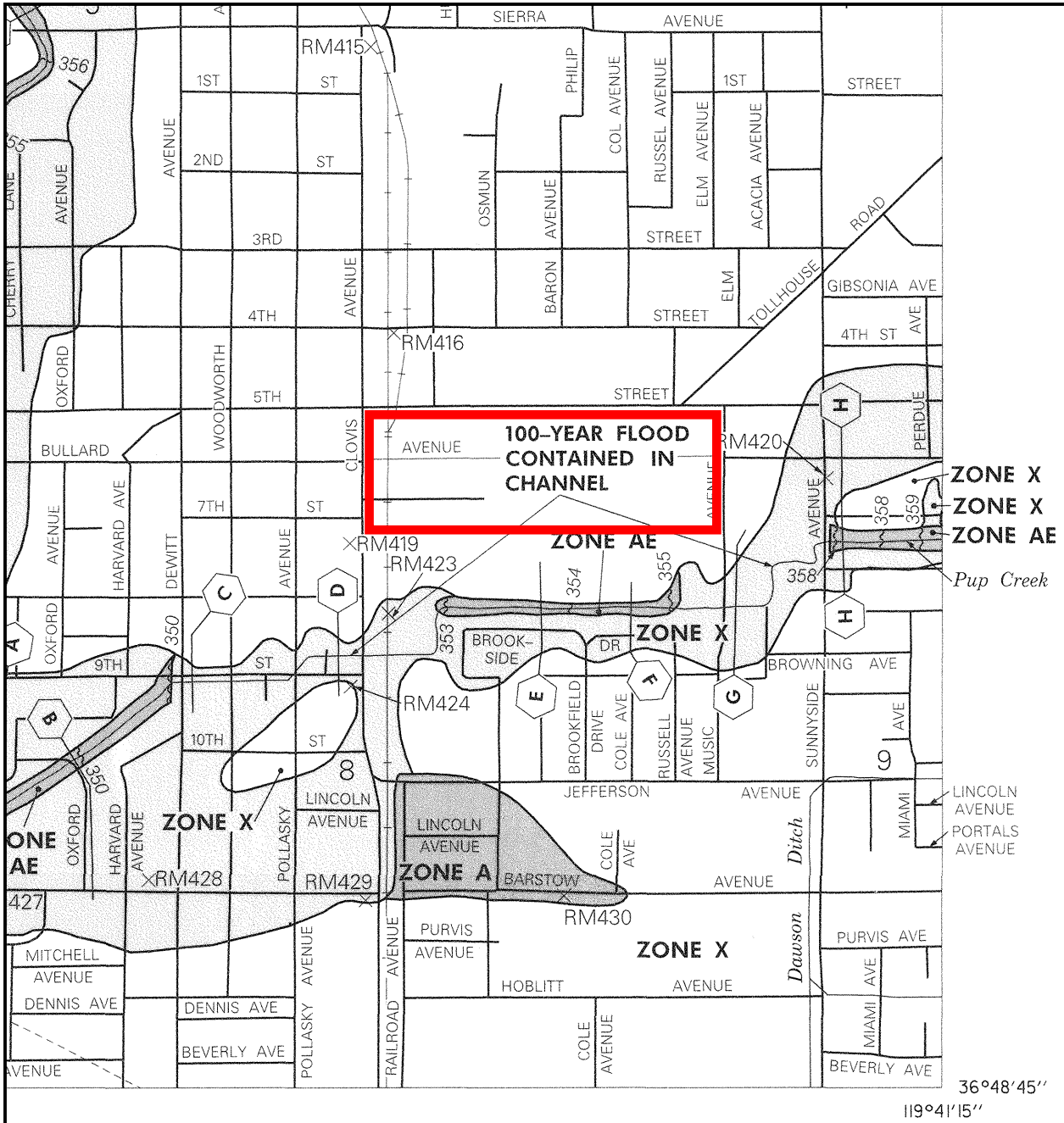

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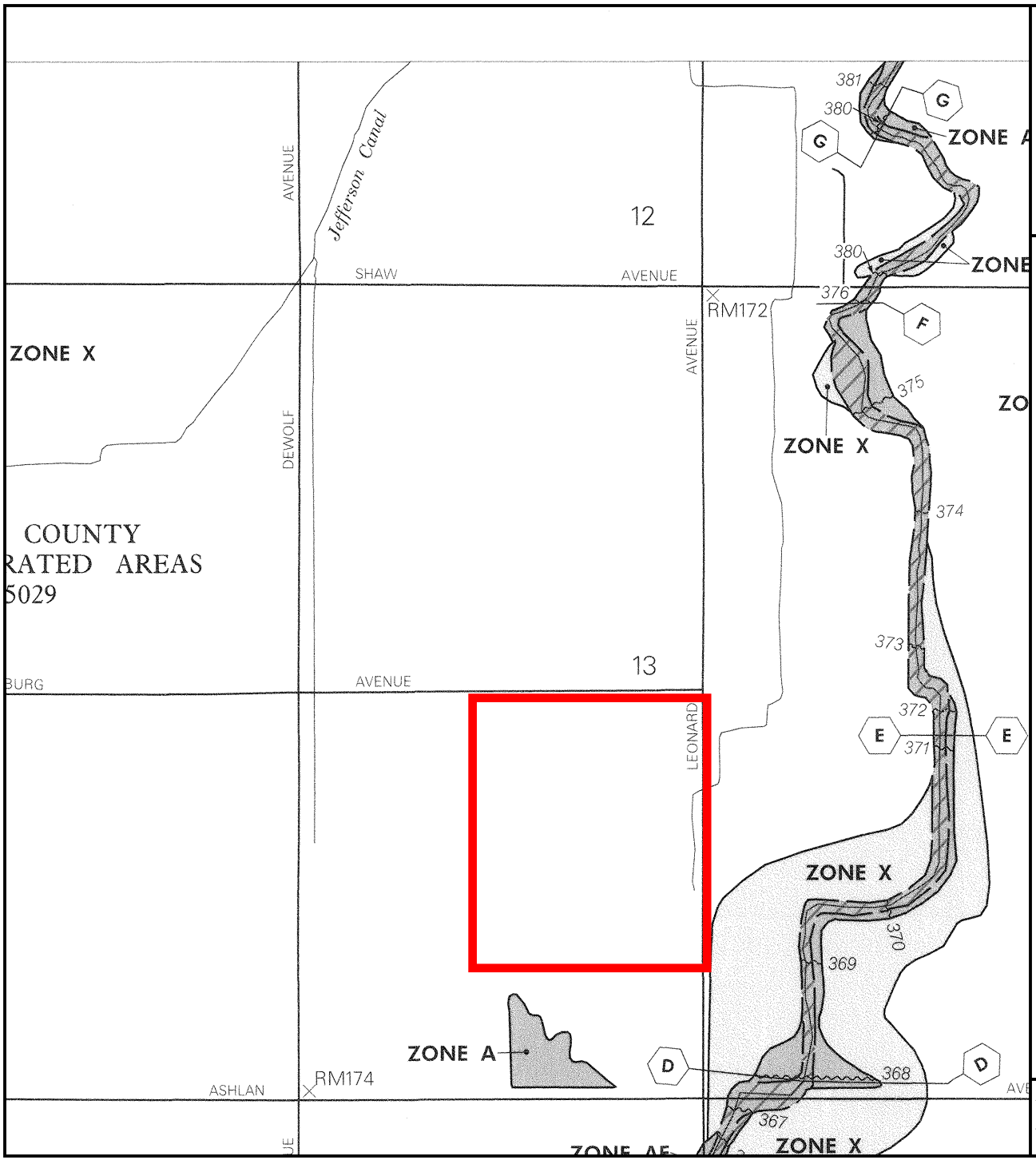

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FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

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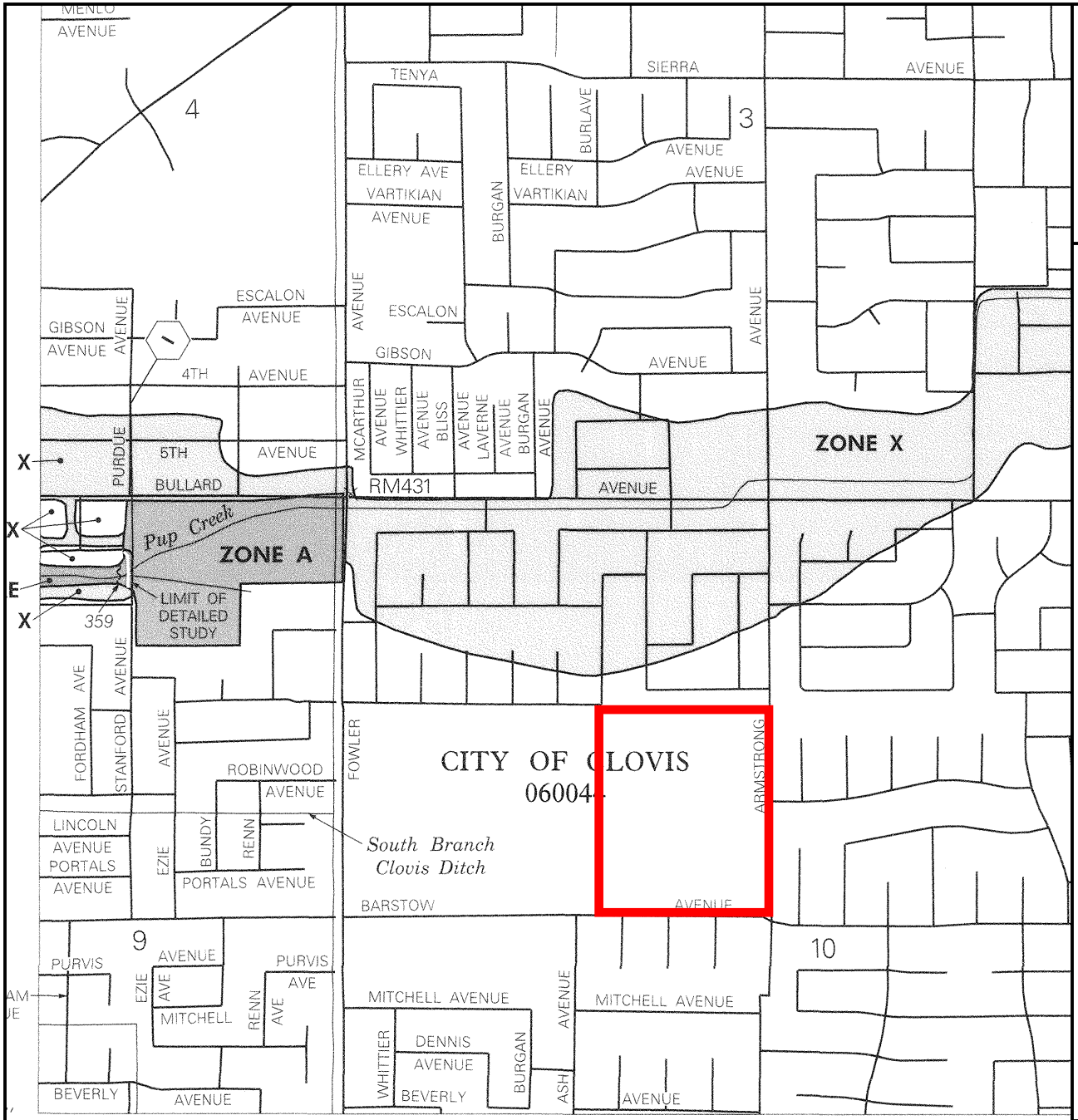

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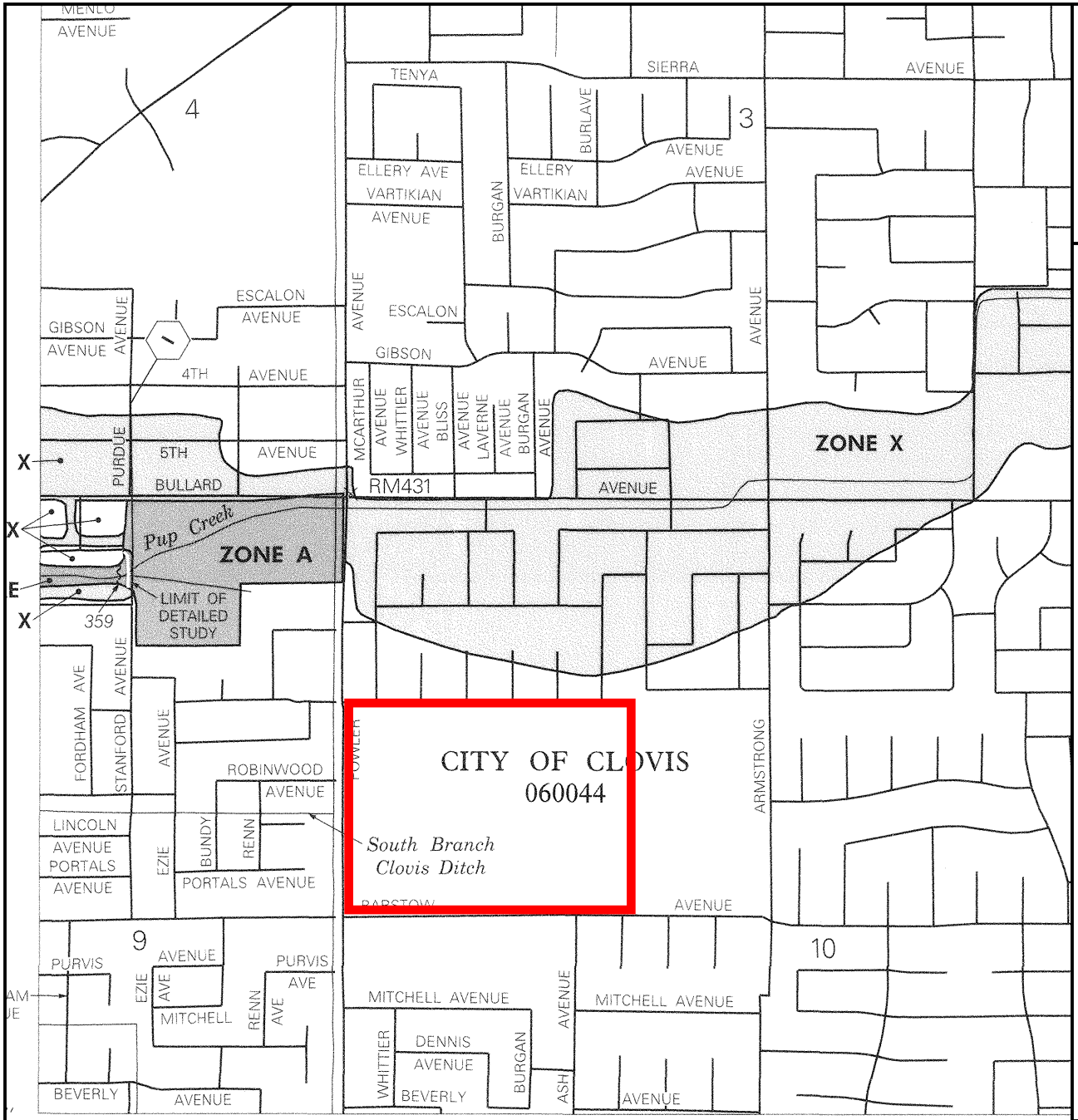

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FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

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FRESNO, CITY OF	060048	1560	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1560	F

MAP NUMBER
06019C1560 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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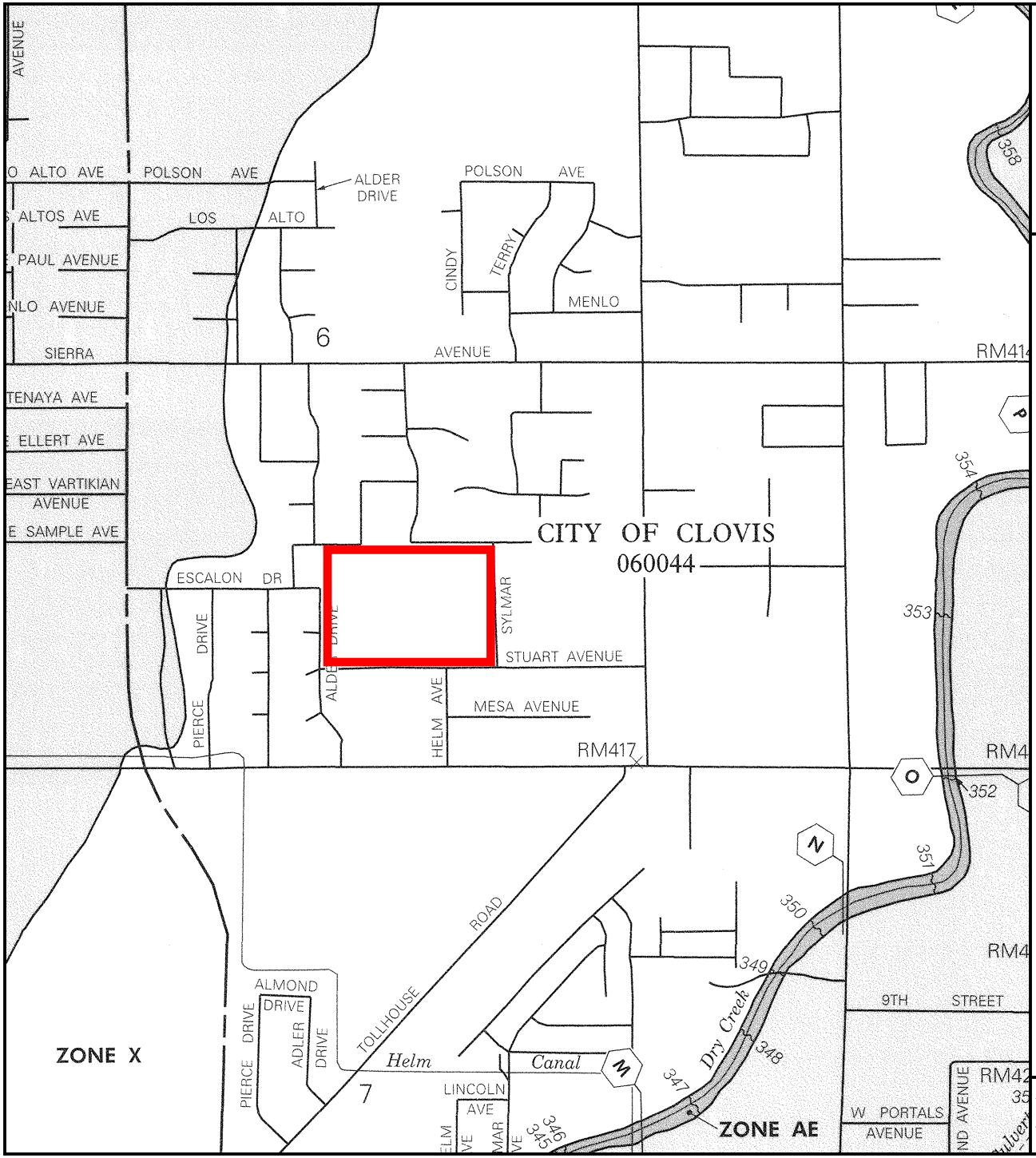

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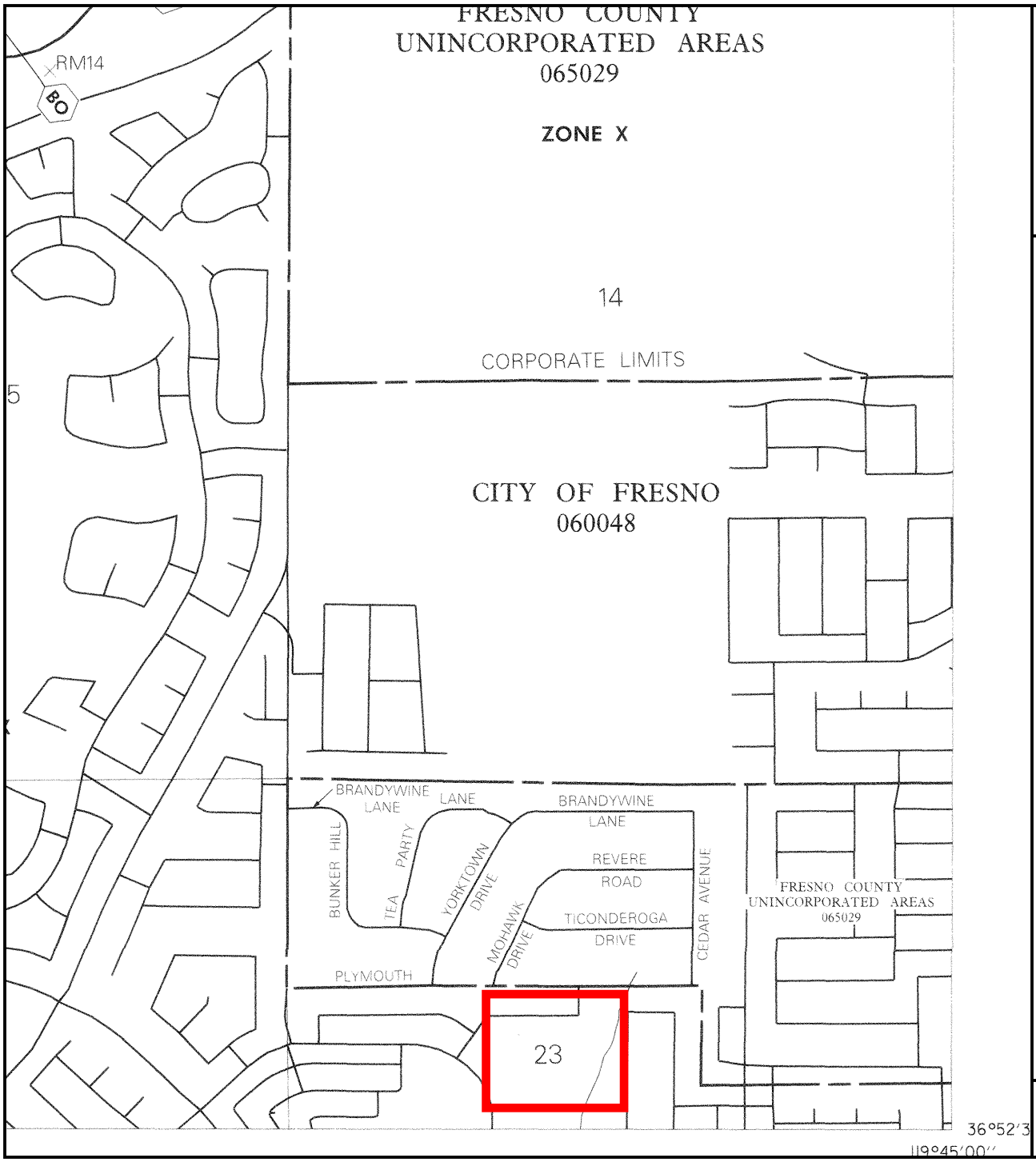

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1020 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1020	F
FRESNO COUNTY UNINCORPORATED AREAS	065029	1020	F

MAP NUMBER
06019C1020 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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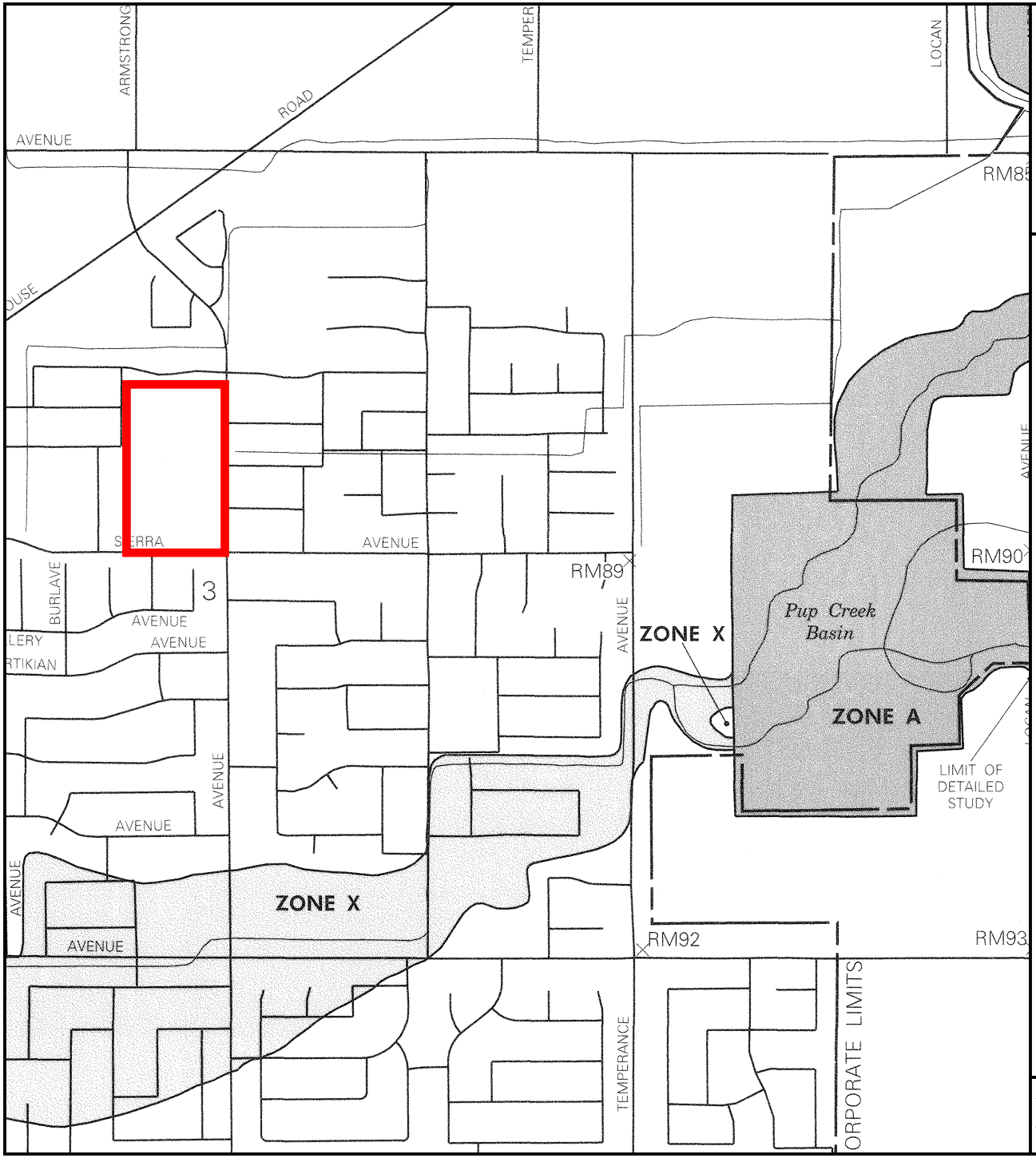

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1585 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1585	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1585	F

MAP NUMBER 06019C1585 F

EFFECTIVE DATE: JULY 19, 2001

Federal Emergency Management Agency

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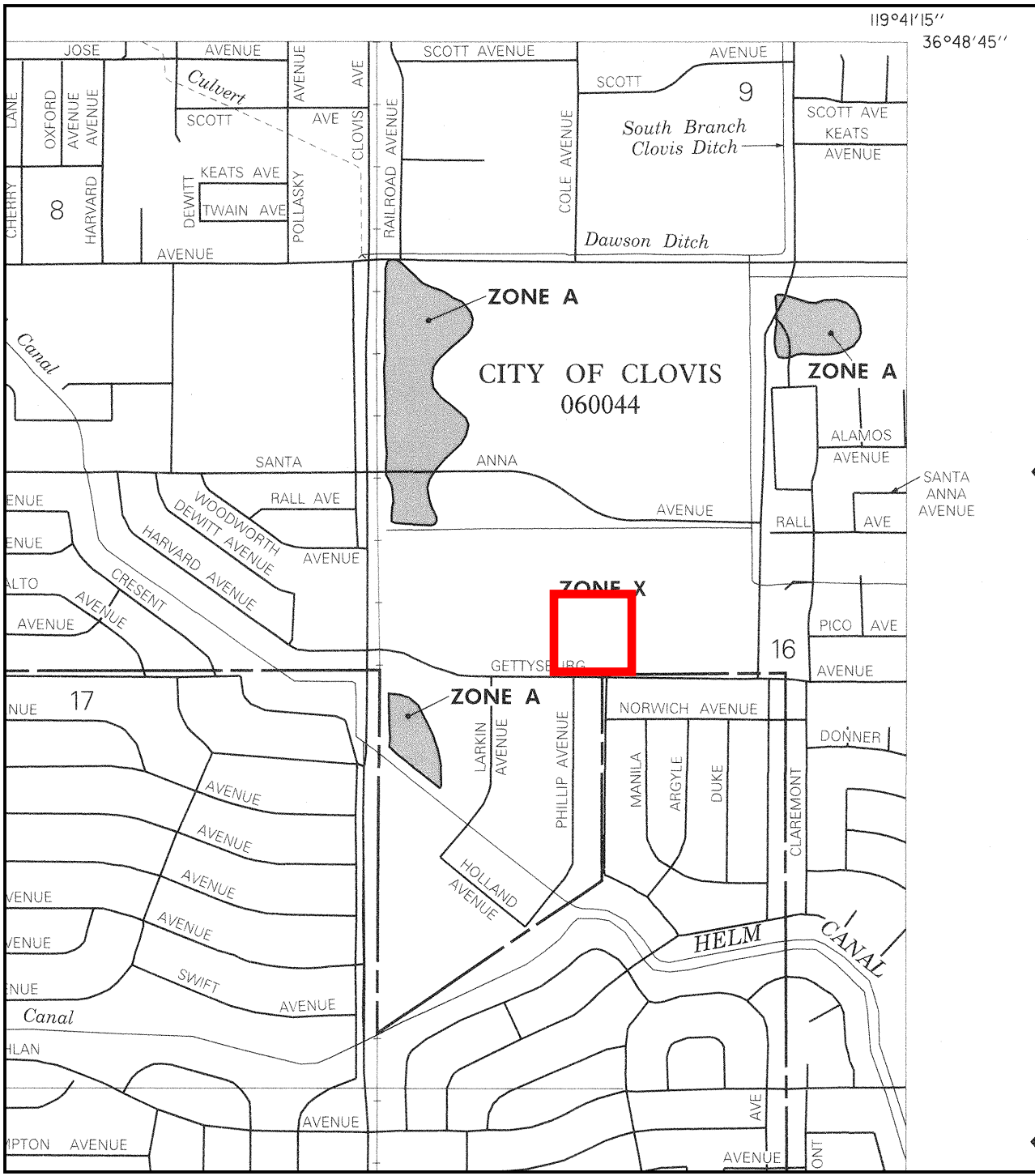

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1590 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1590	F
FRESNO, CITY OF	060048	1590	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1590	F

MAP NUMBER
06019C1590 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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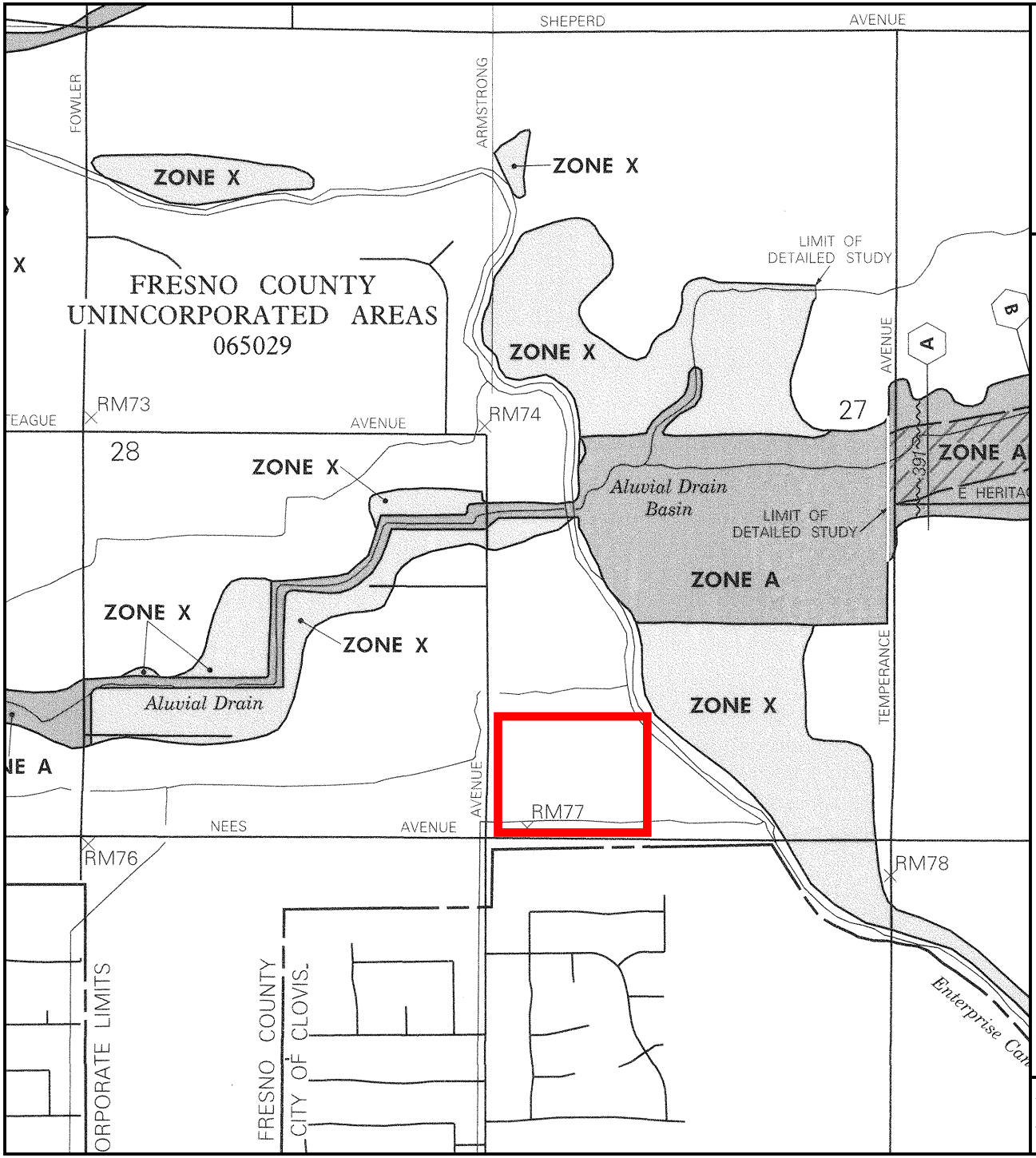

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1585 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1585	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1585	F

MAP NUMBER
06019C1585 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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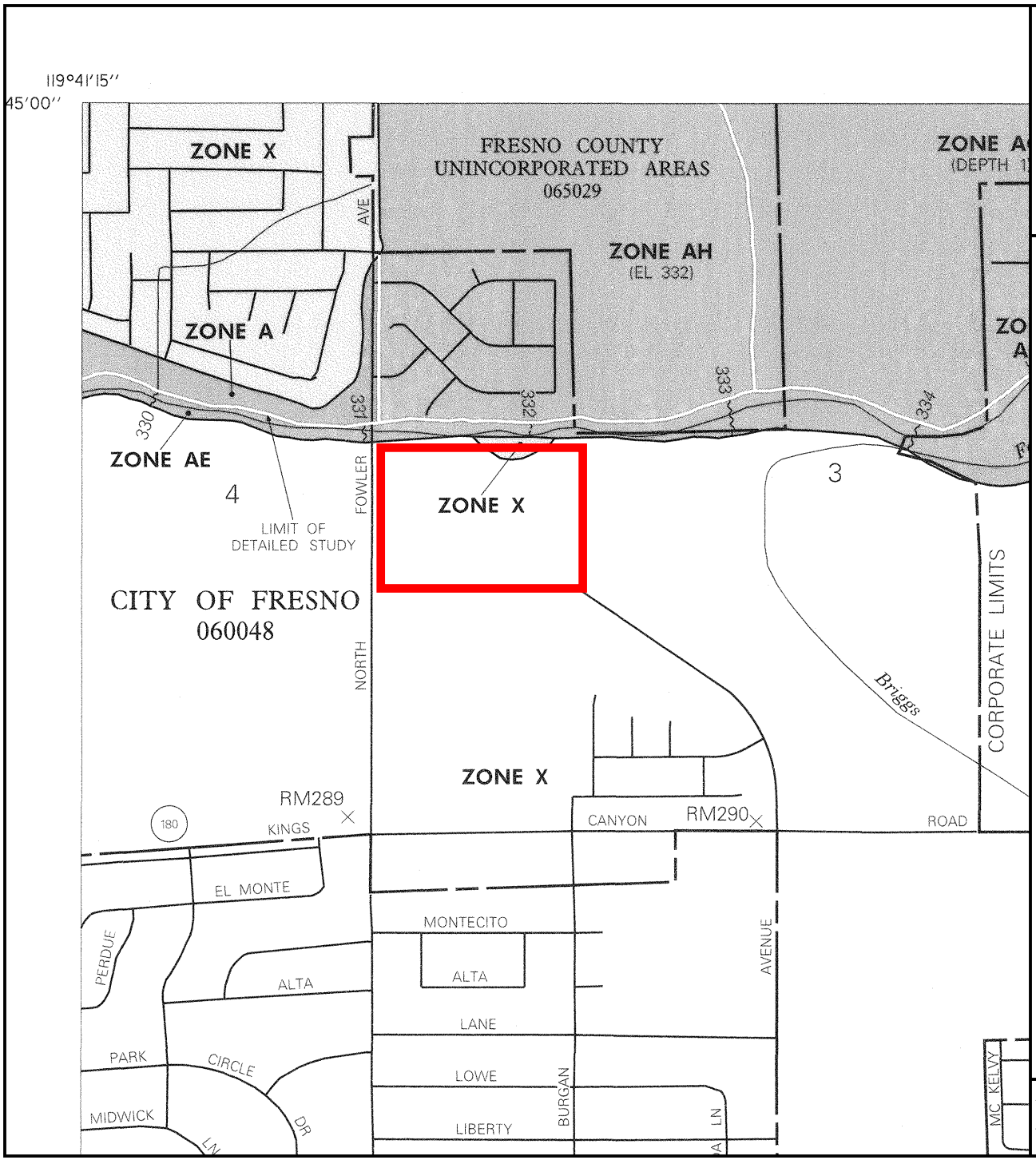

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY,
CALIFORNIA AND
INCORPORATED AREAS

PANEL 2135 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	2135	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	2135	F

MAP NUMBER
06019C2135 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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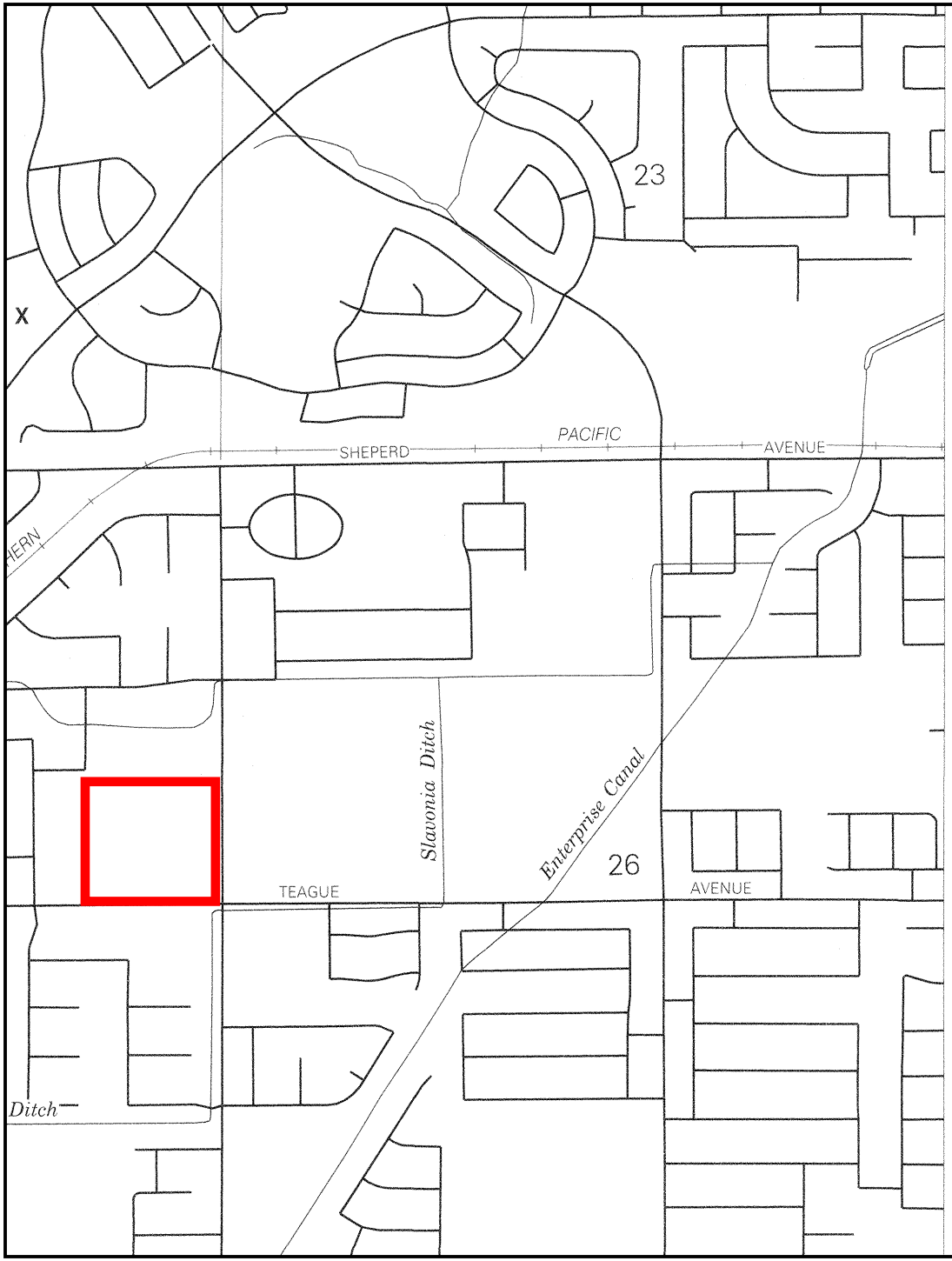

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1560 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1560	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1560	F

MAP NUMBER
06019C1560 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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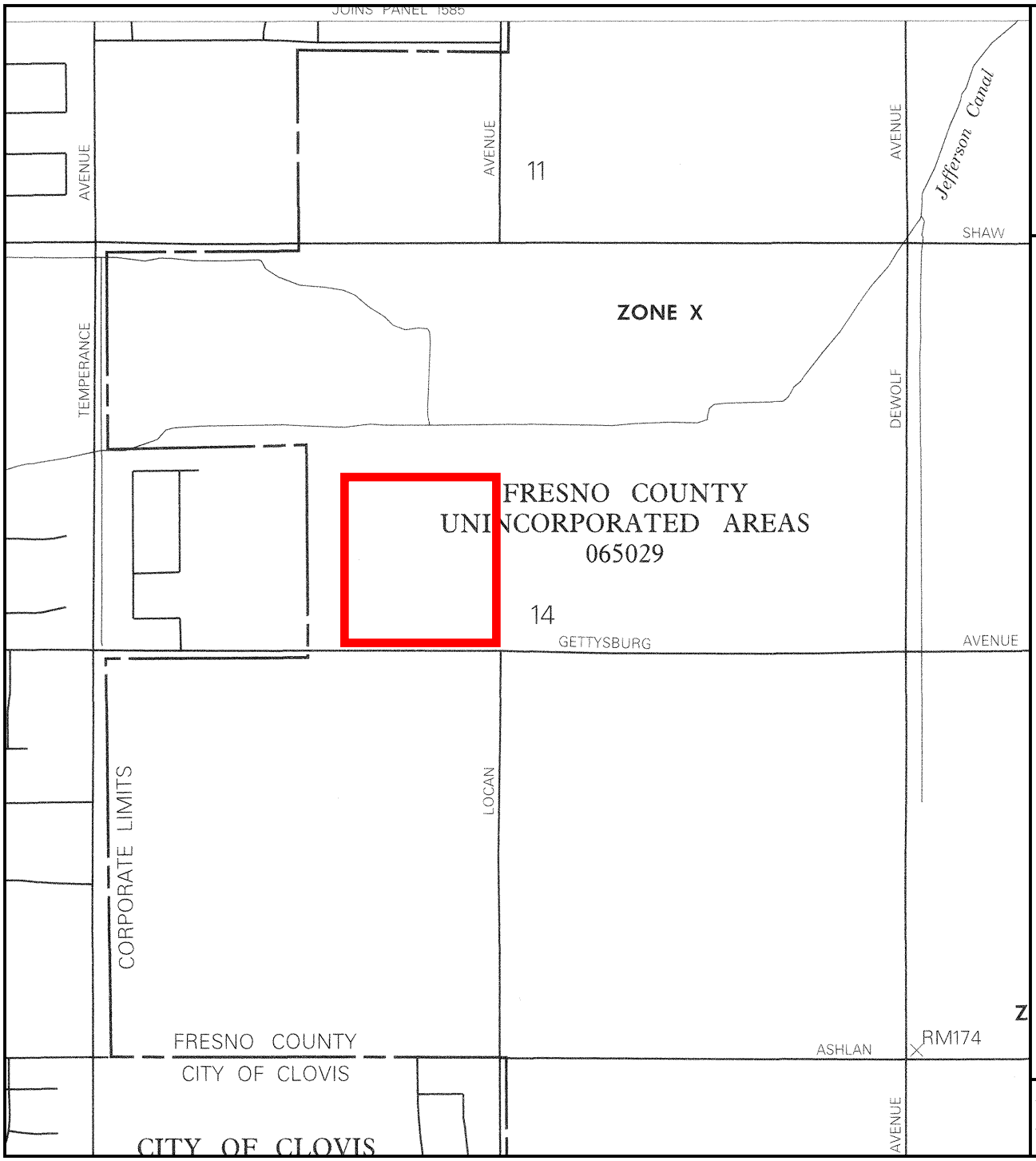

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1595 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1595	F
FRESNO, CITY OF	060048	1595	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1595	F

MAP NUMBER
06019C1595 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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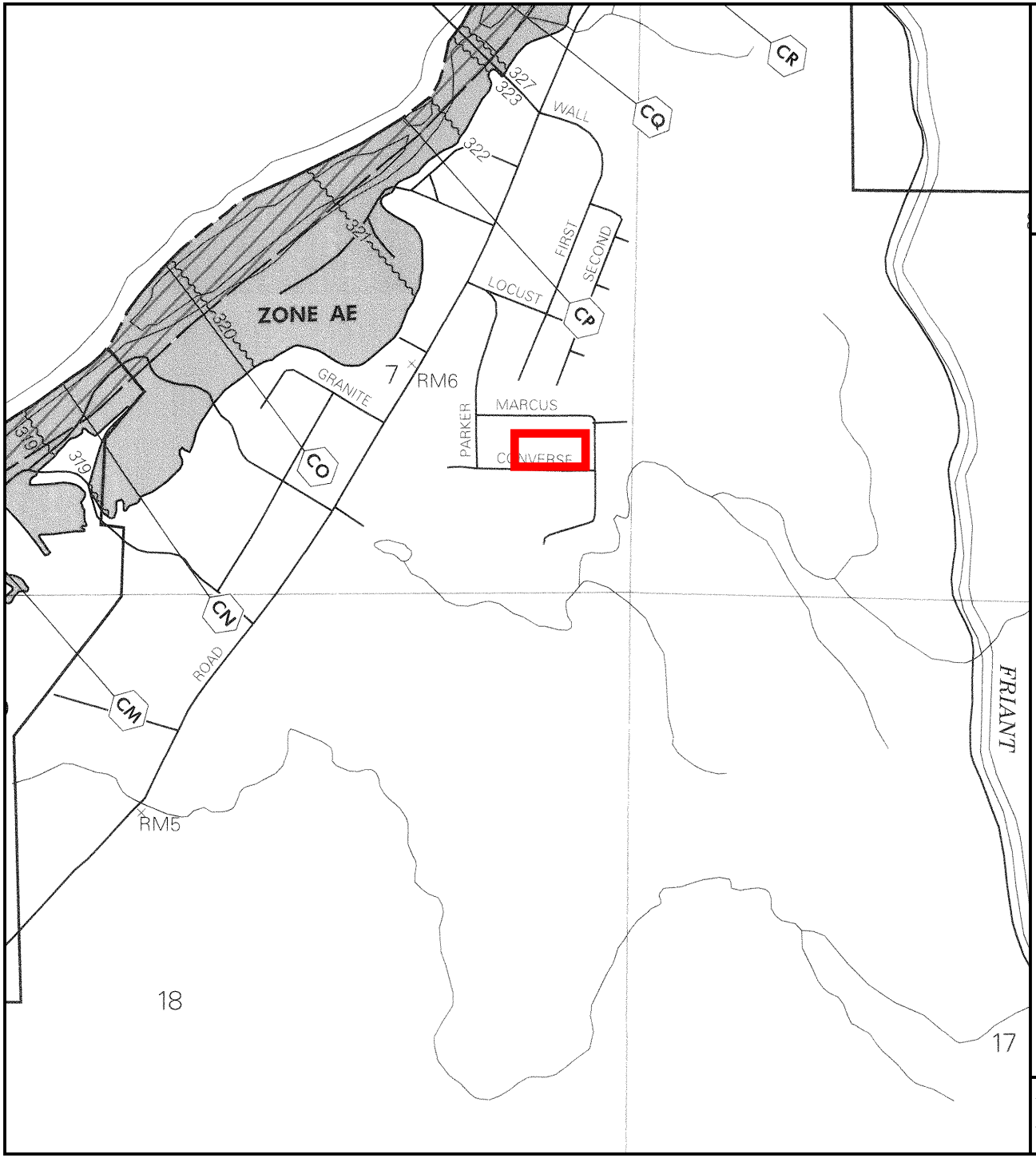

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1030 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, COUNTY OF UNINCORPORATED AREAS	060229	1030	F

MAP NUMBER 06019C1030 F

EFFECTIVE DATE: JULY 19, 2001

Federal Emergency Management Agency

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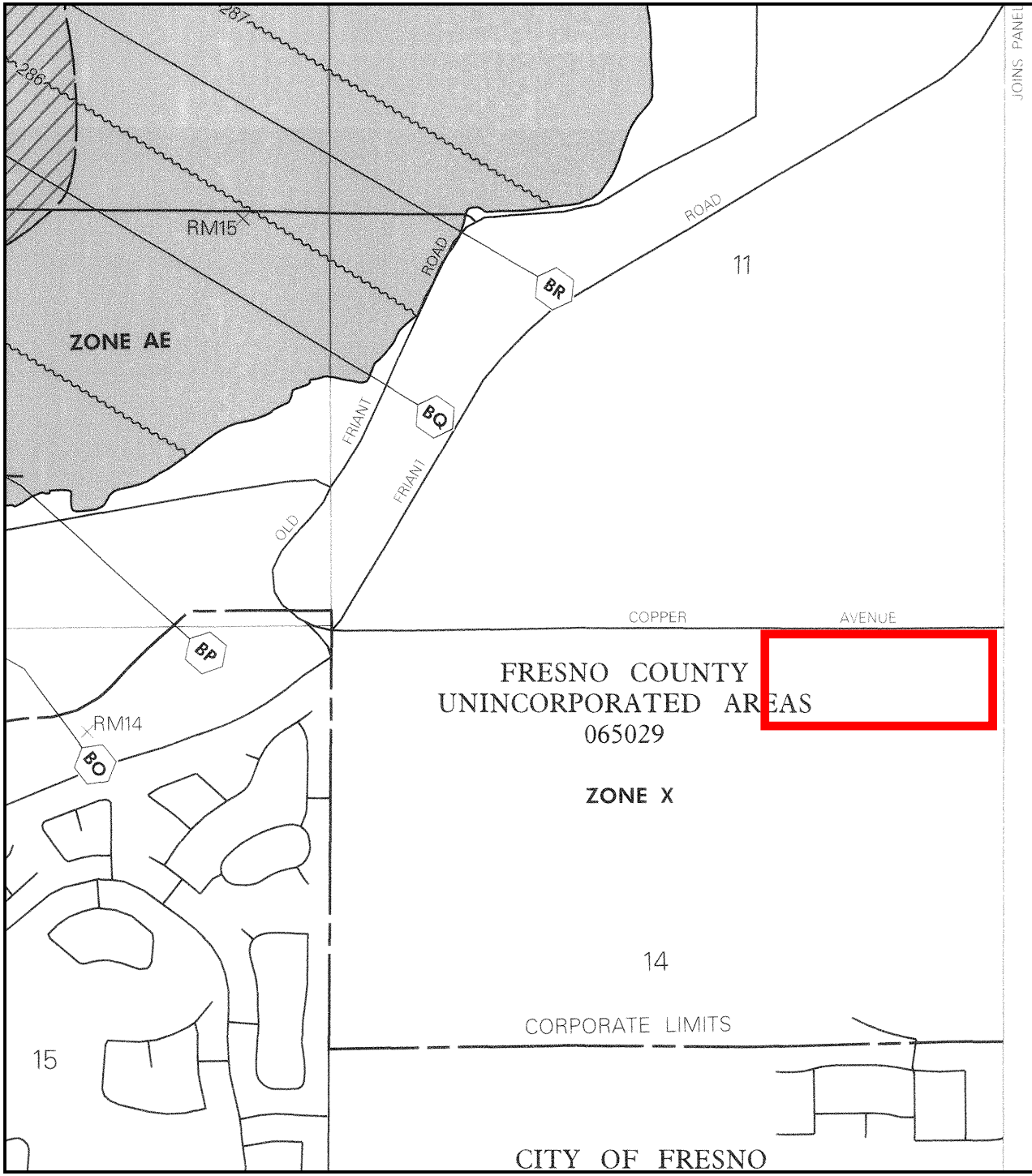

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1020 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1020	F
FRESNO COUNTY UNINCORPORATED AREAS	065029	1020	F

MAP NUMBER
06019C1020 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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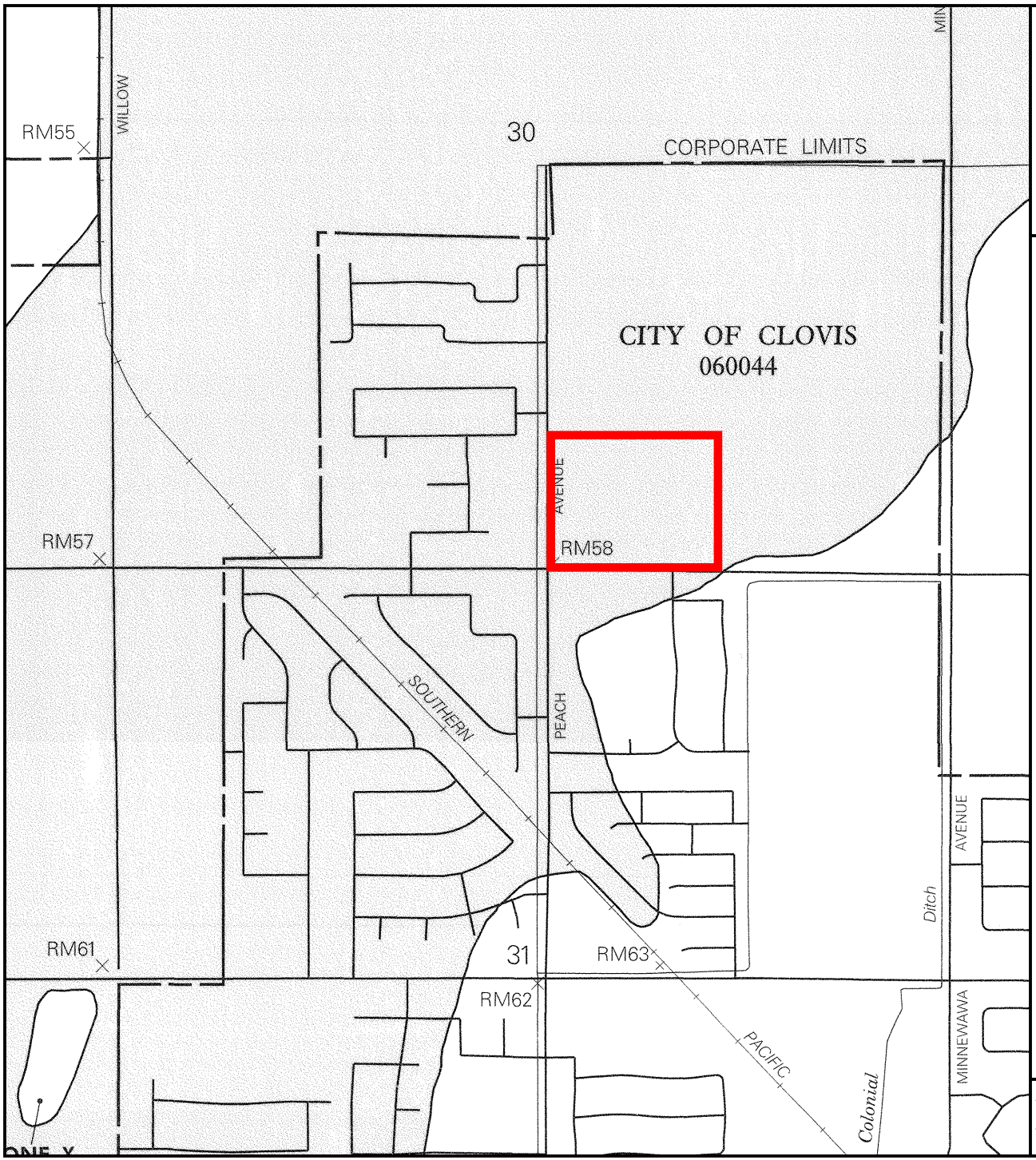

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1580 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1580	F
FRESNO, CITY OF	060048	1580	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1580	F

MAP NUMBER
06019C1580 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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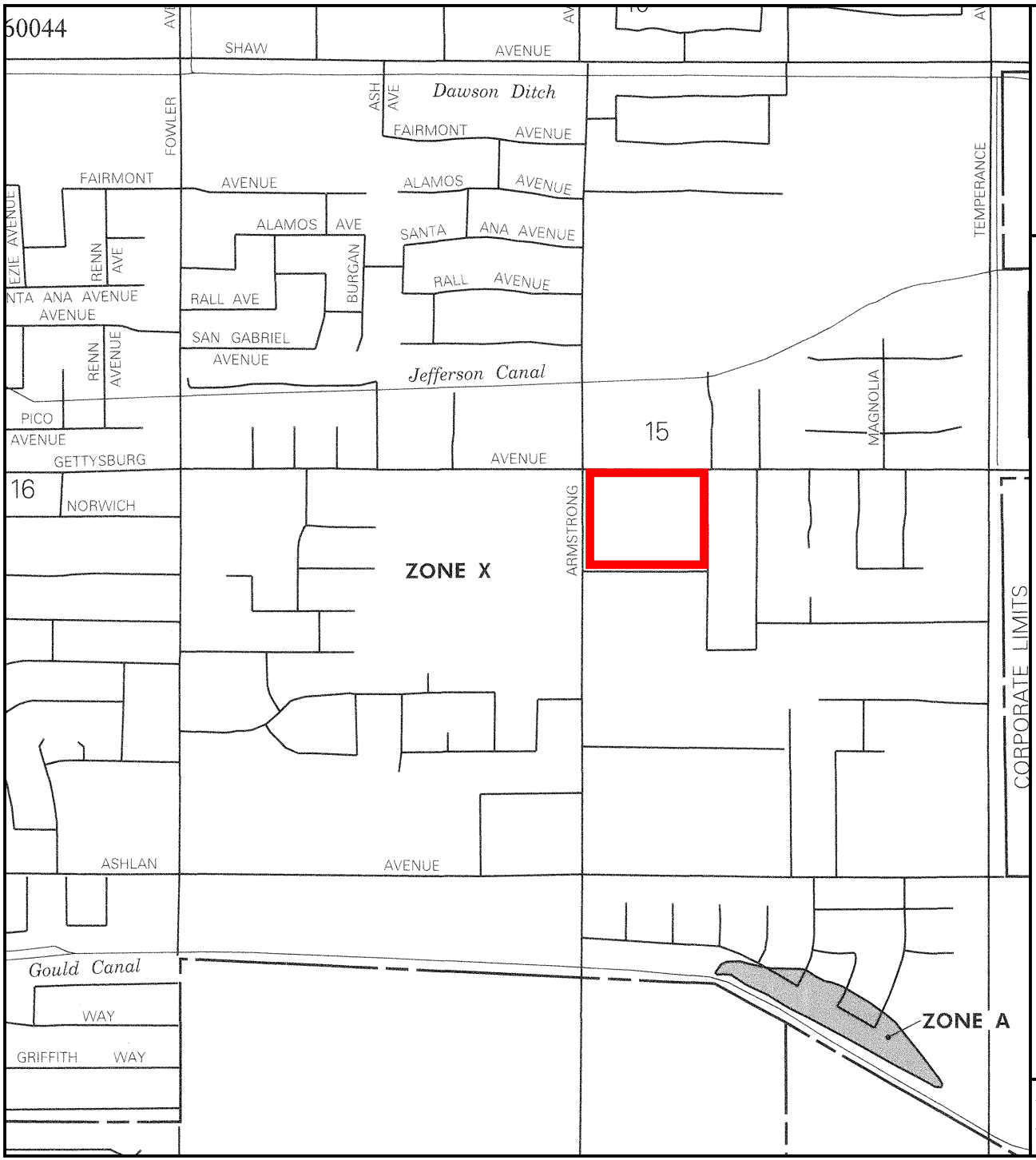

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1595 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1595	F
FRESNO, CITY OF	060048	1595	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1595	F

MAP NUMBER
06019C1595 F

EFFECTIVE DATE:
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F LOCATION

cap No. JL 51, of Shaw and

cap stamped JL est of section et north of enue, 23.3 feet e Wolf Avenue, nwest of power

cap No. JL 95, of Ashlan and

cap No. JL 101, Shields and De

cap stamped E uth of Clinton west of Fowler

cap stamped E ner of Clinton s.

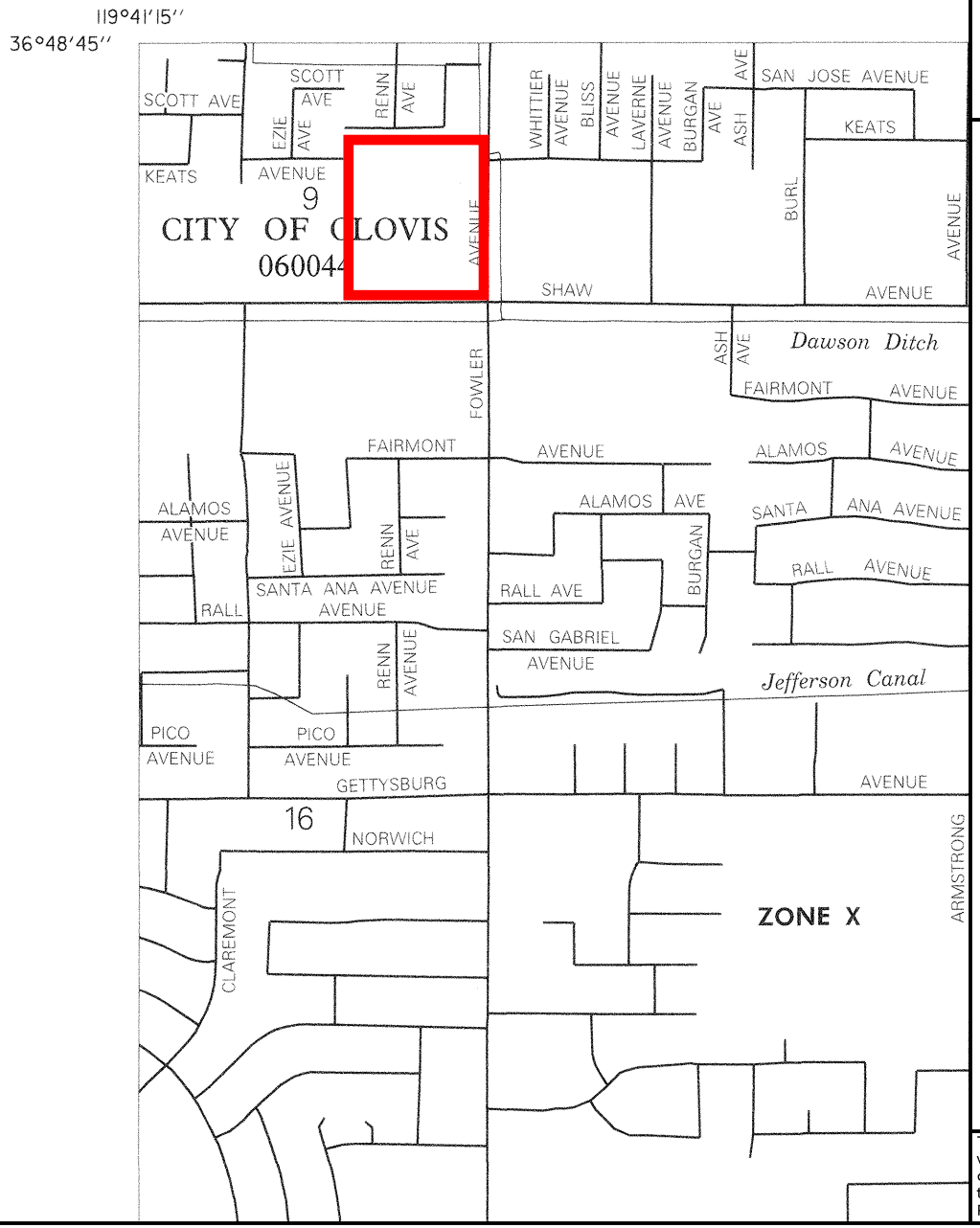
cap stamped E wall, northwest and Temperance

cap stamped E north side of enue alignment, Avenue.

cap stamped E nwest wingwall, north rail of cKinley Avenue de of Armstrong

cap stamped E th of railroad nue), 20.5 feet venue.

cap stamped E wall, northeast Fowler Avenues.



APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1595 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1595	F
FRESNO, CITY OF	060048	1595	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1595	F

MAP NUMBER
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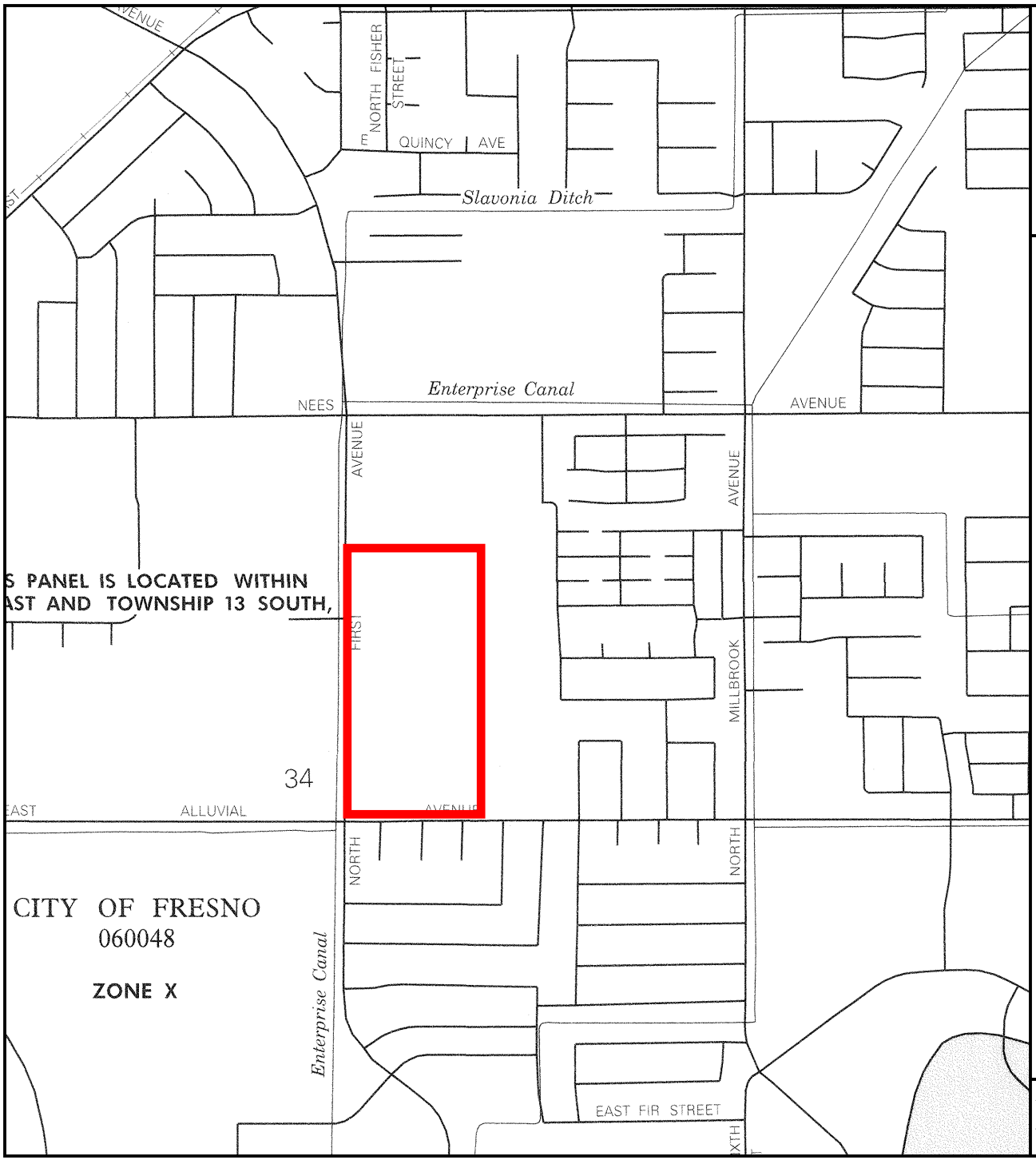

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1560 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1560	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1560	F

MAP NUMBER
06019C1560 F

EFFECTIVE DATE:
JULY 19, 2001

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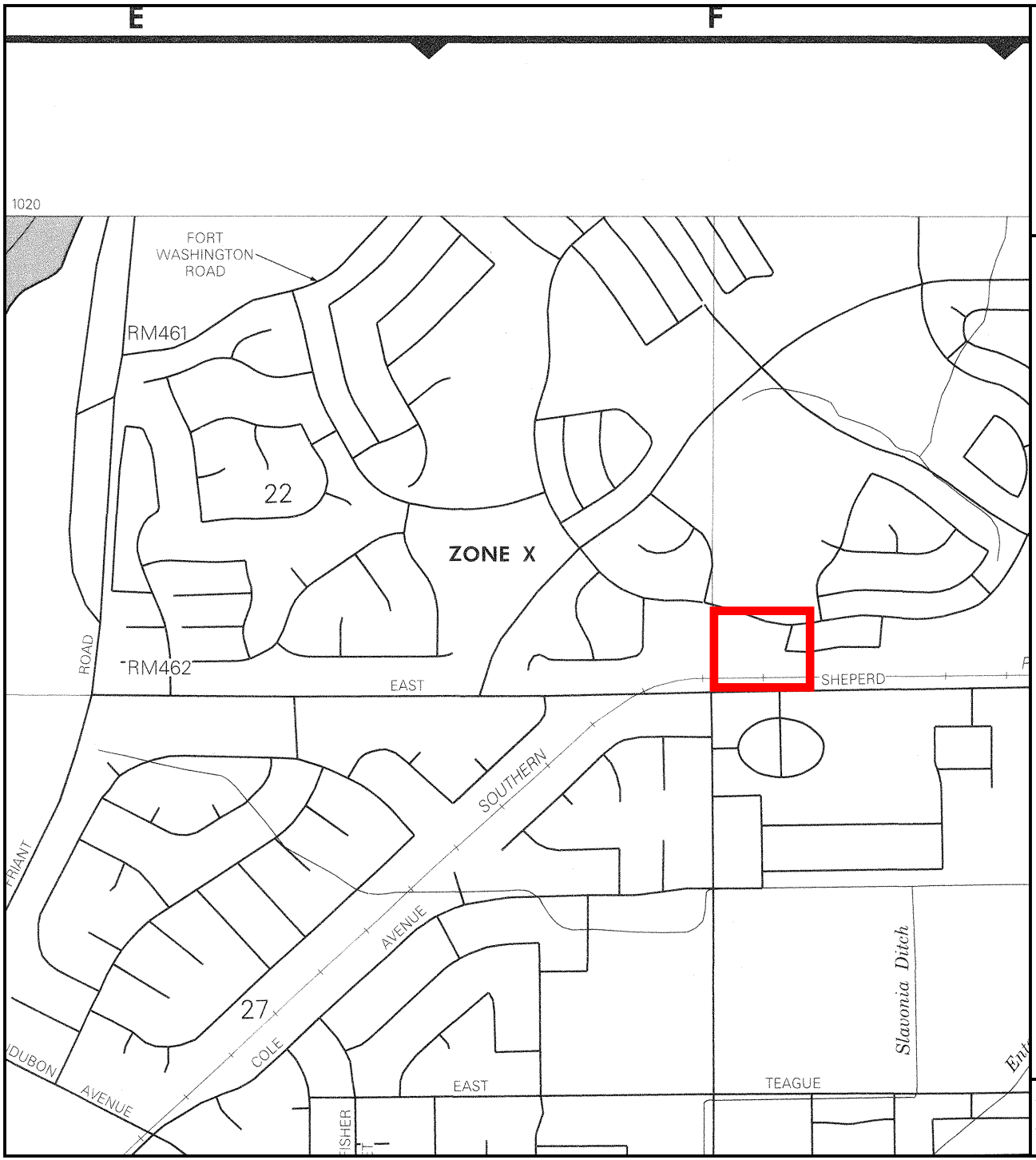

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1560 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1560	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1560	F

MAP NUMBER 06019C1560 F

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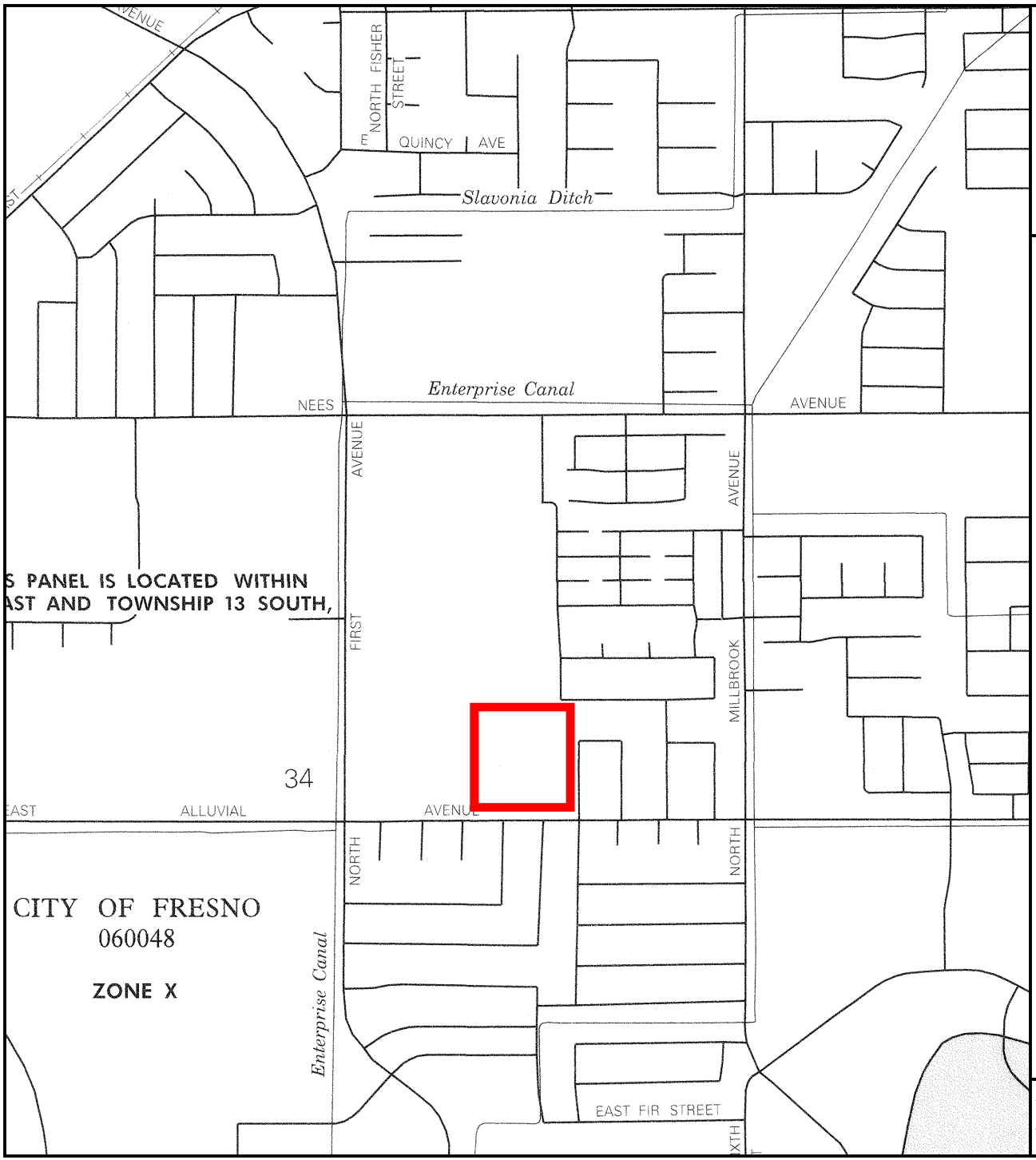

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1560 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1560	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1560	F

MAP NUMBER
06019C1560 F

EFFECTIVE DATE:
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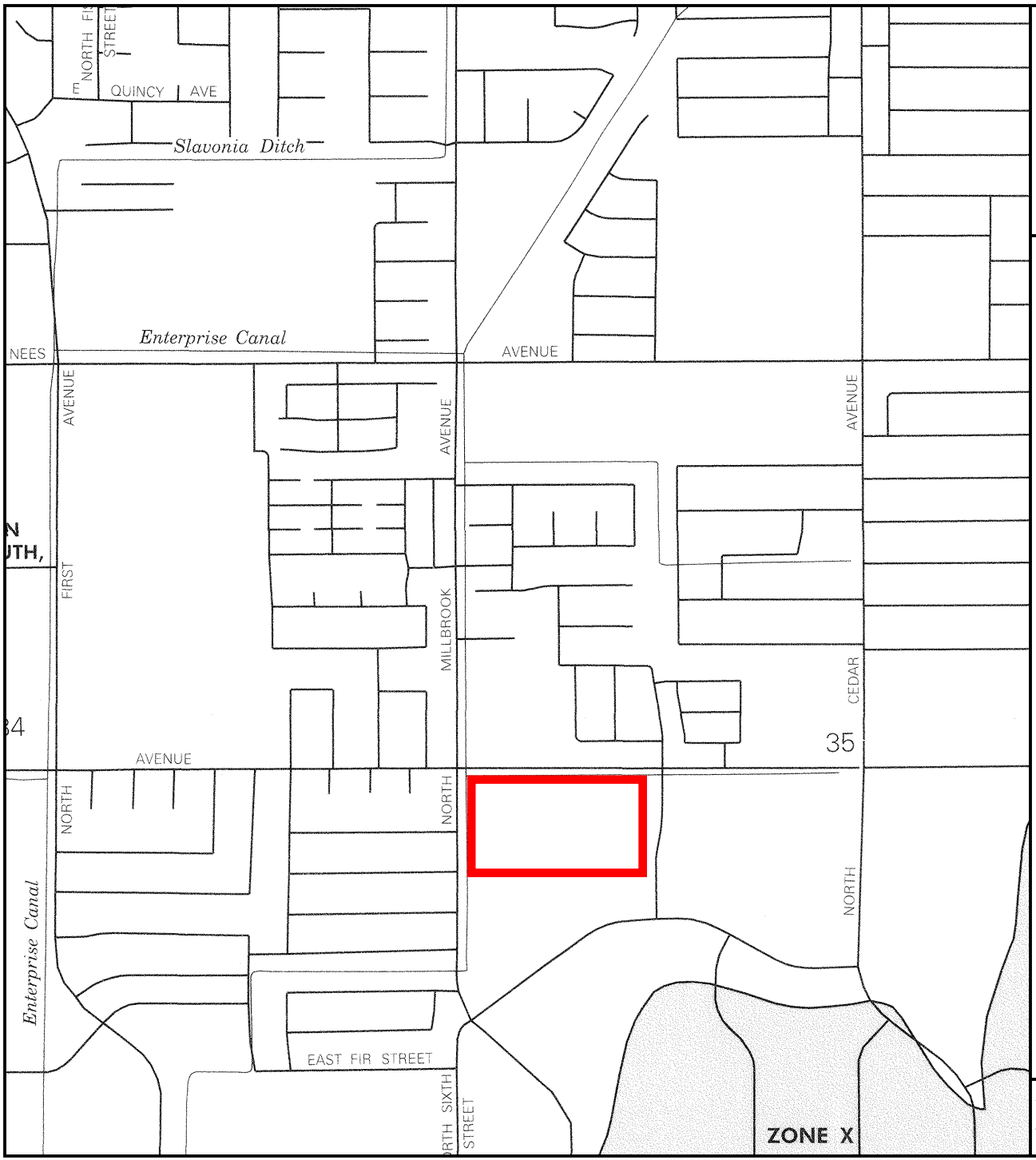

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1560 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1560	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1560	F

MAP NUMBER 06019C1560 F

EFFECTIVE DATE: JULY 19, 2001

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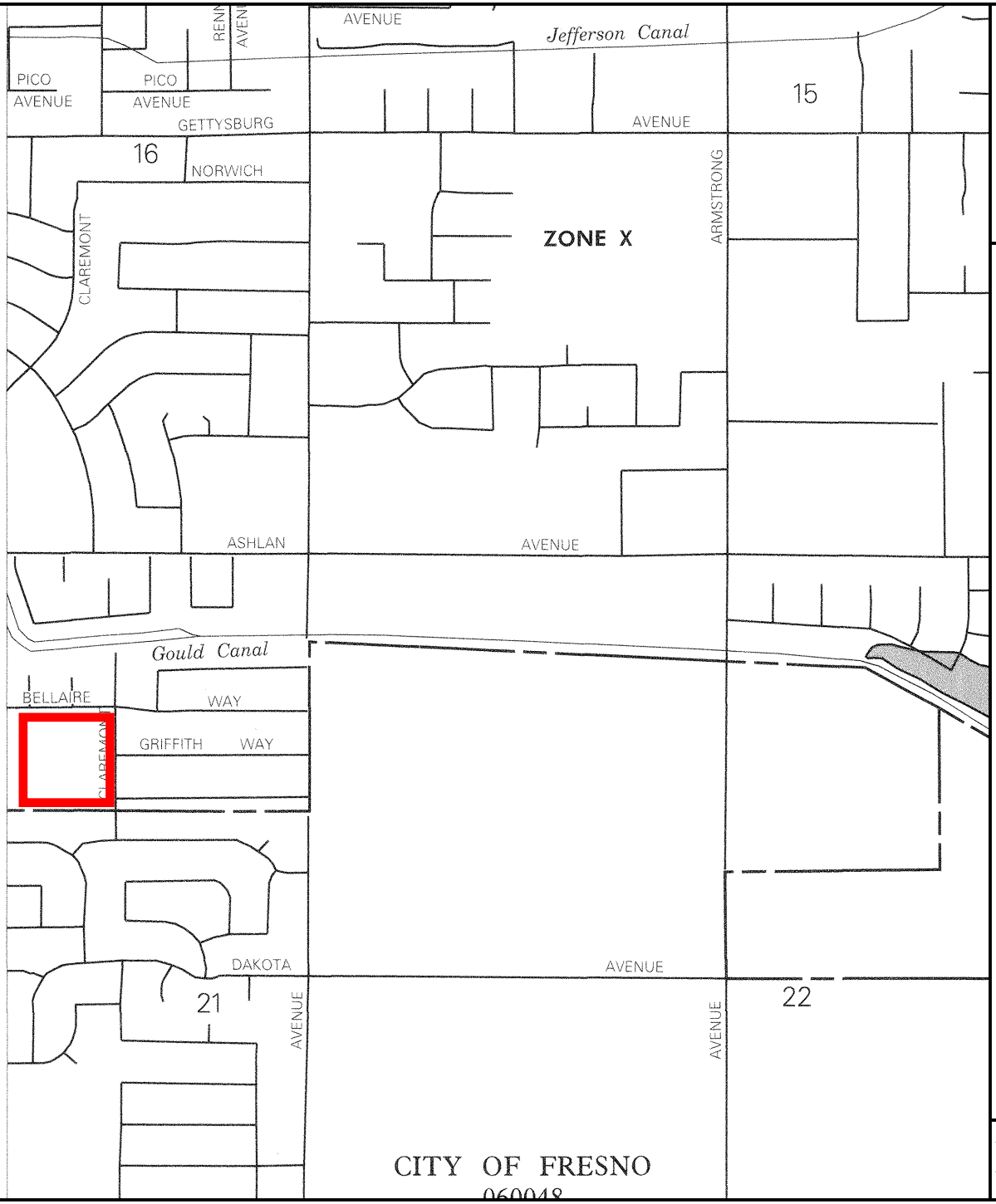

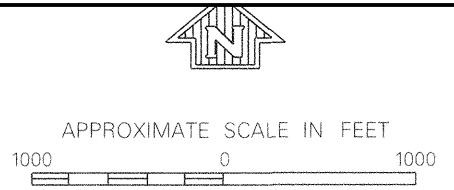

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1595 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1595	F
FRESNO, CITY OF	060048	1595	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1595	F

MAP NUMBER 06019C1595 F

EFFECTIVE DATE: JULY 19, 2001

Federal Emergency Management Agency

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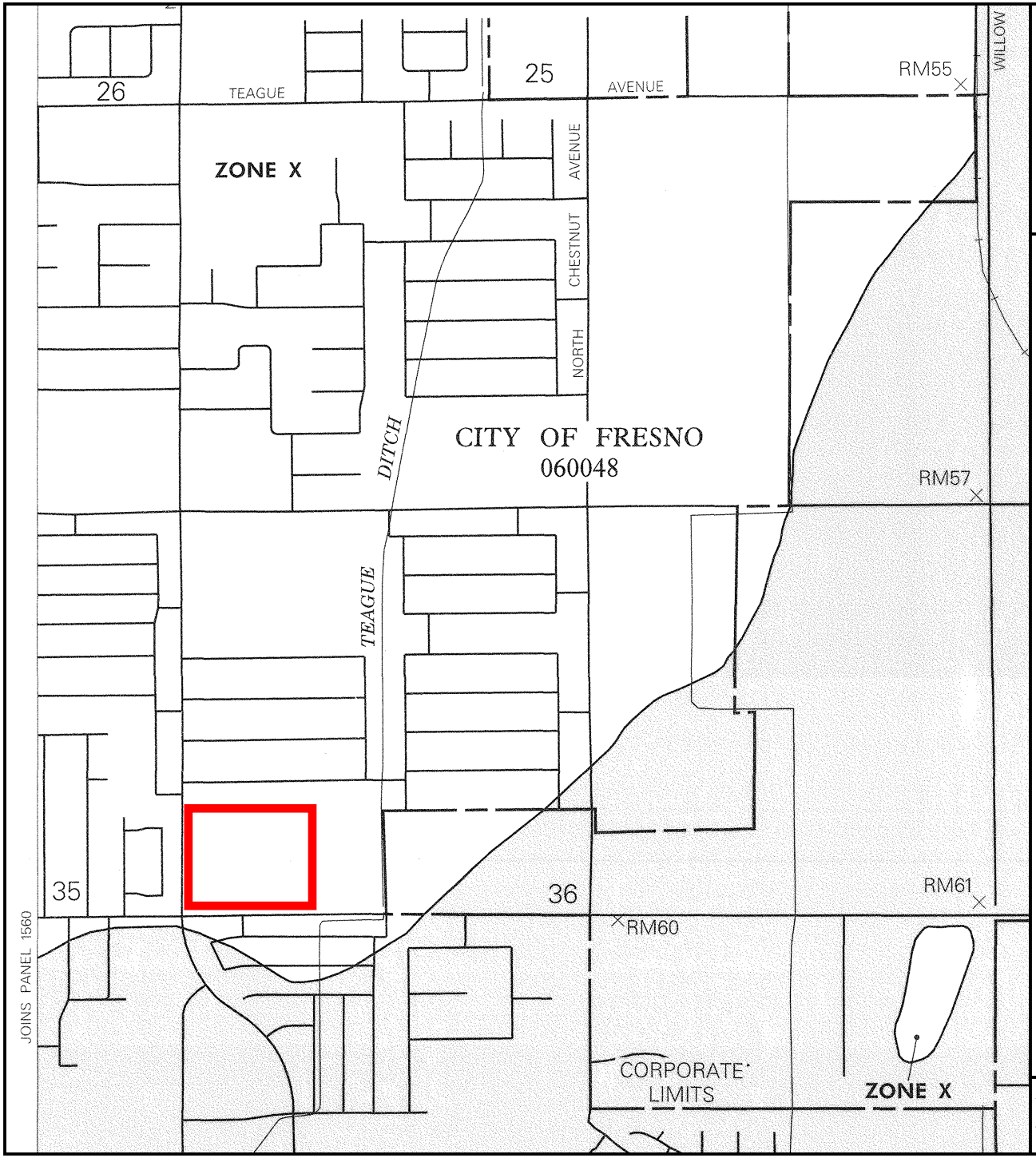

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1580 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1580	F
FRESNO, CITY OF	060048	1580	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1580	F

MAP NUMBER
06019C1580 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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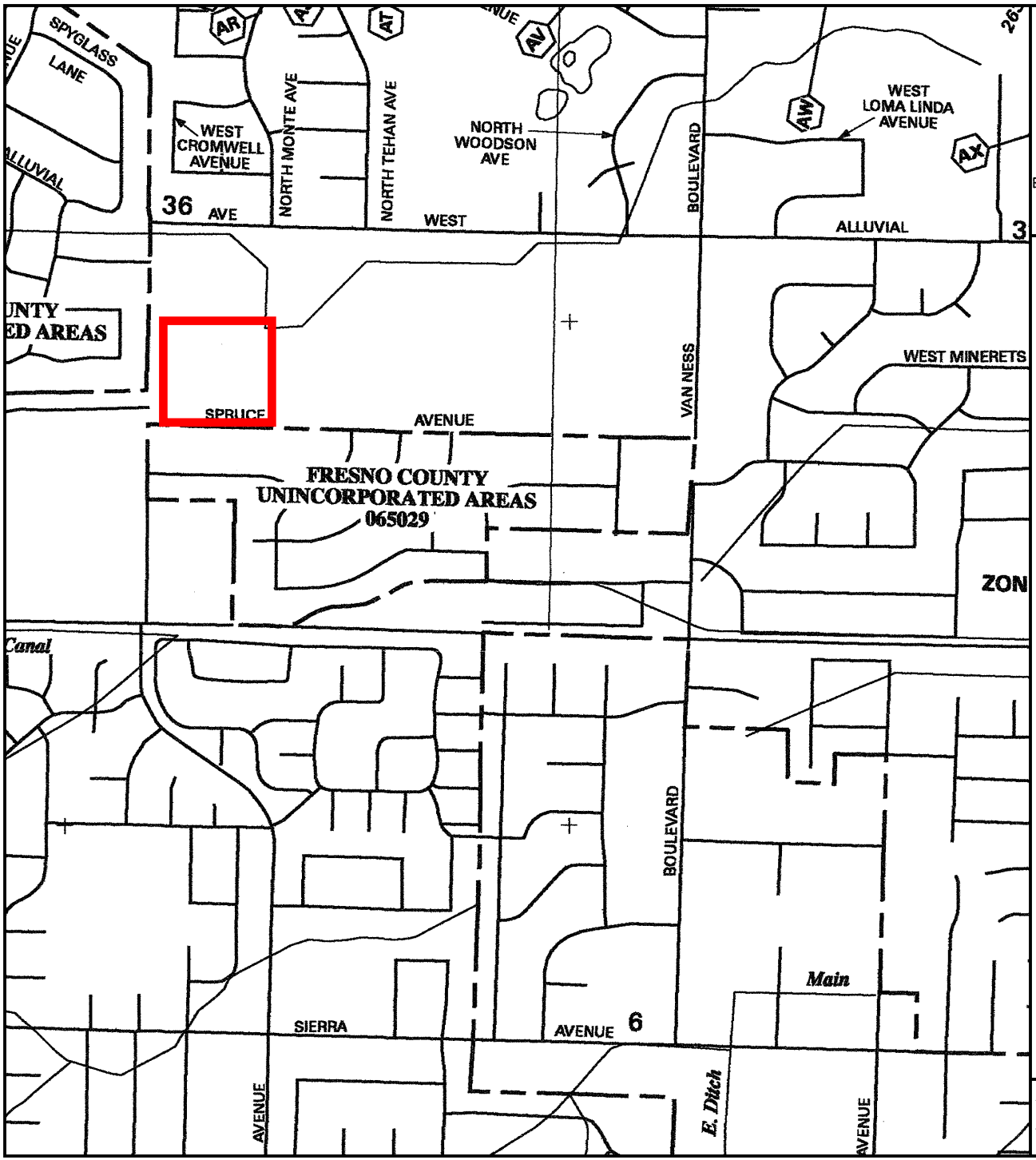

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

MET

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1555G

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 1555 OF 3550

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1555	G
FRESNO, CITY OF	060048	1555	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06019C1555G

MAP REVISED:
SEPTEMBER 30, 2005

Federal Emergency Management Agency

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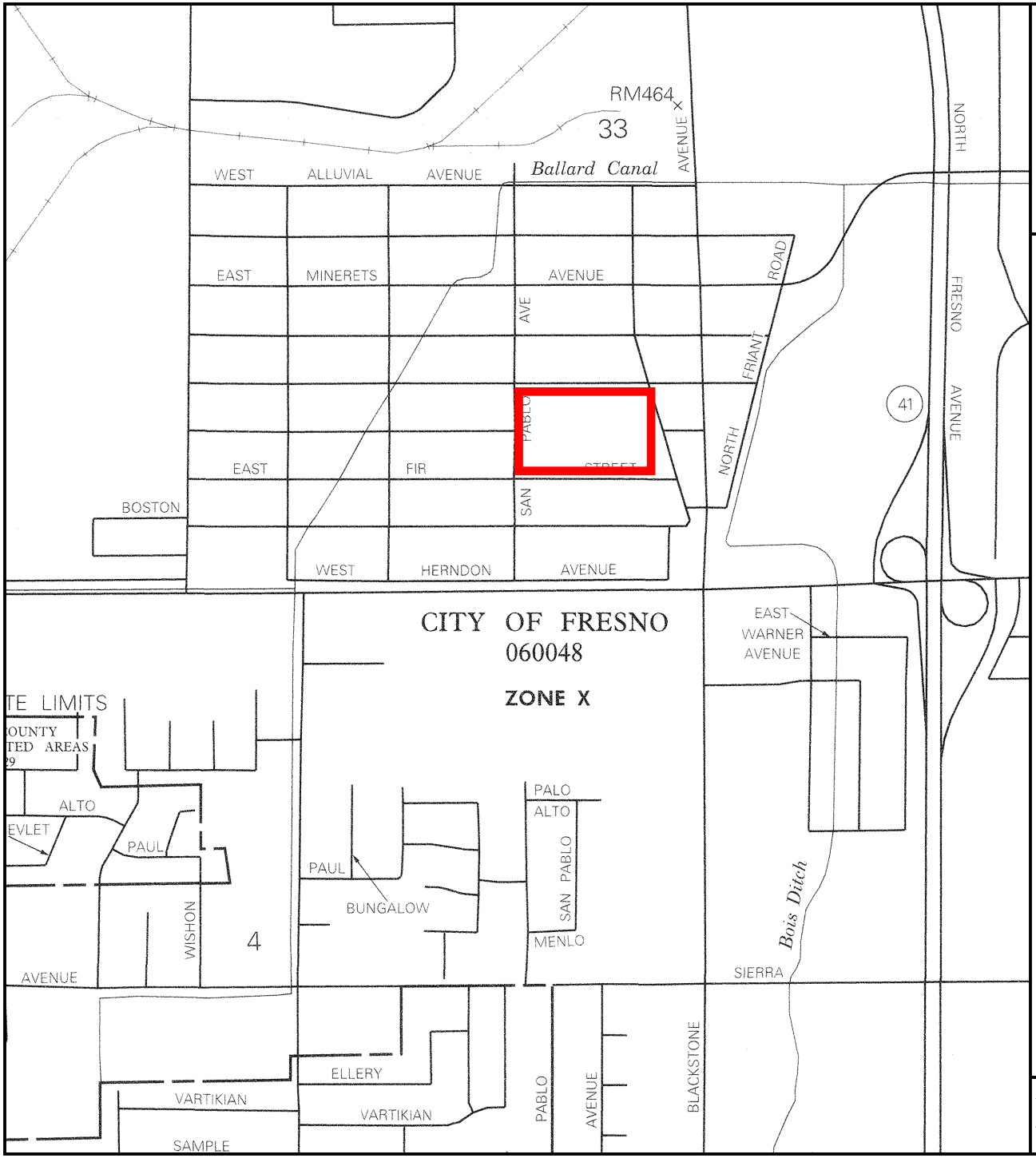

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1560 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1560	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1560	F

MAP NUMBER
06019C1560 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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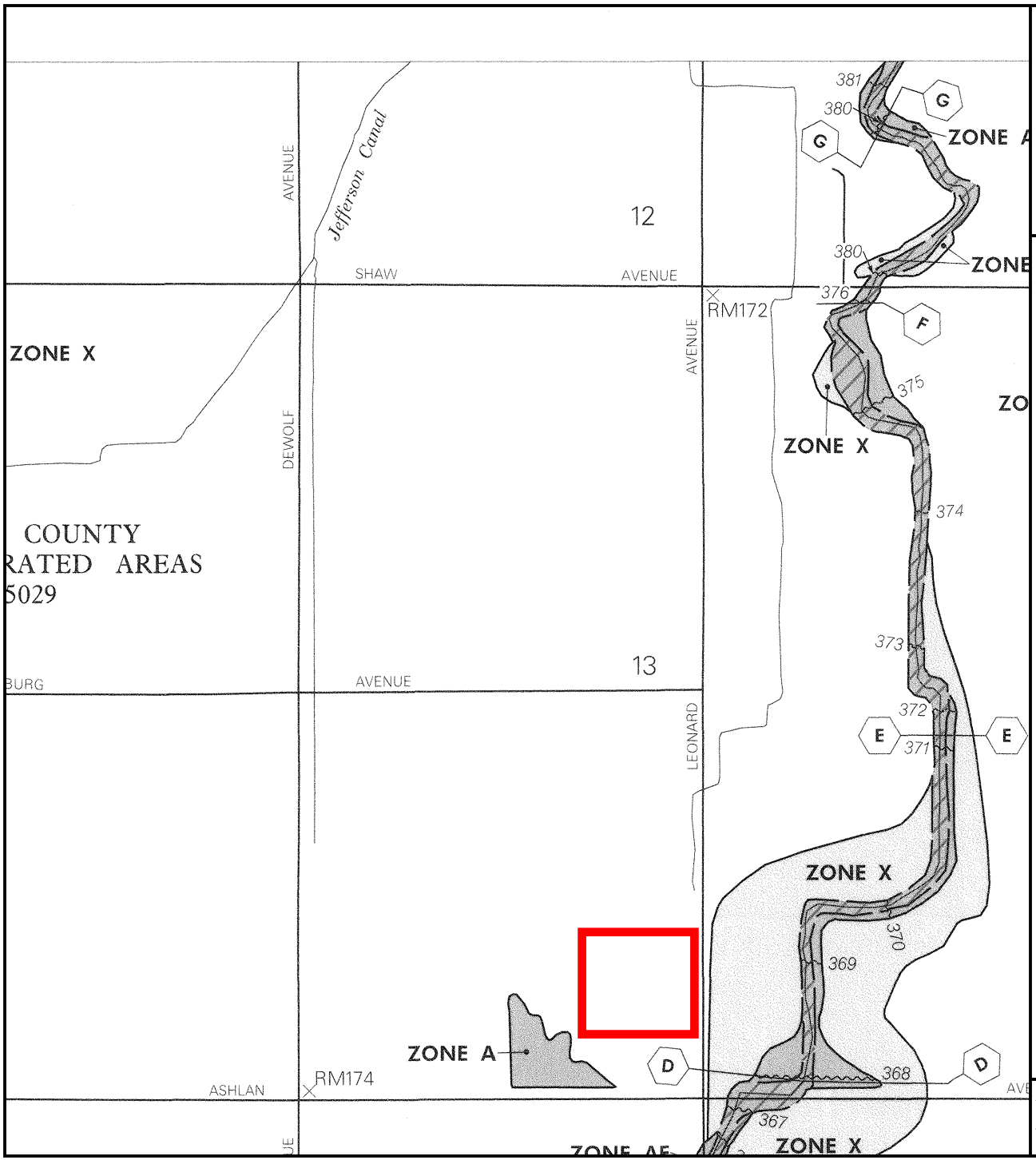

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1595 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1595	F
FRESNO, CITY OF	060048	1595	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1595	F

MAP NUMBER
06019C1595 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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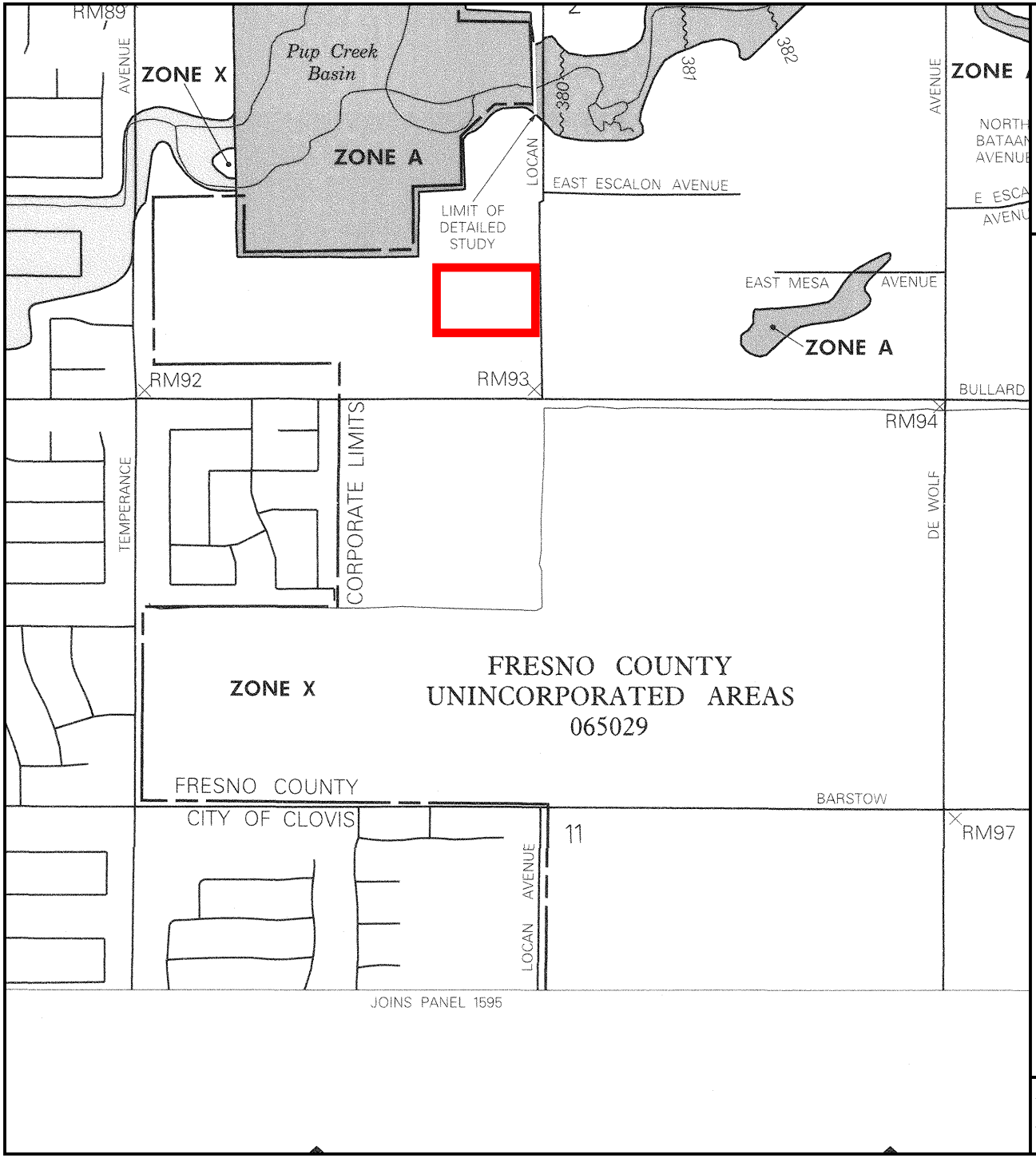

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1585 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1585	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1585	F

MAP NUMBER 06019C1585 F

EFFECTIVE DATE: JULY 19, 2001

Federal Emergency Management Agency

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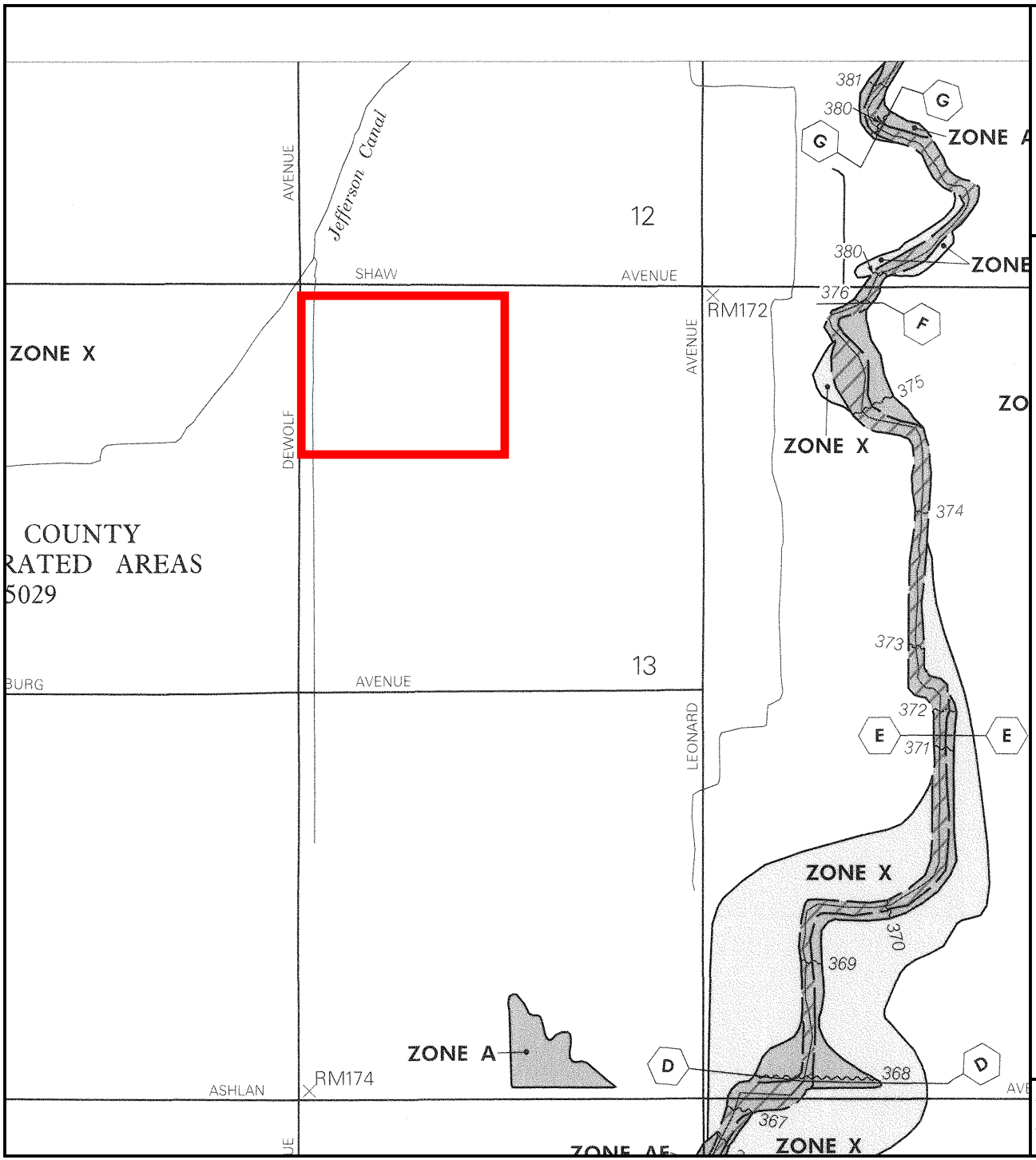

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1595 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1595	F
FRESNO, CITY OF	060048	1595	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1595	F

MAP NUMBER
06019C1595 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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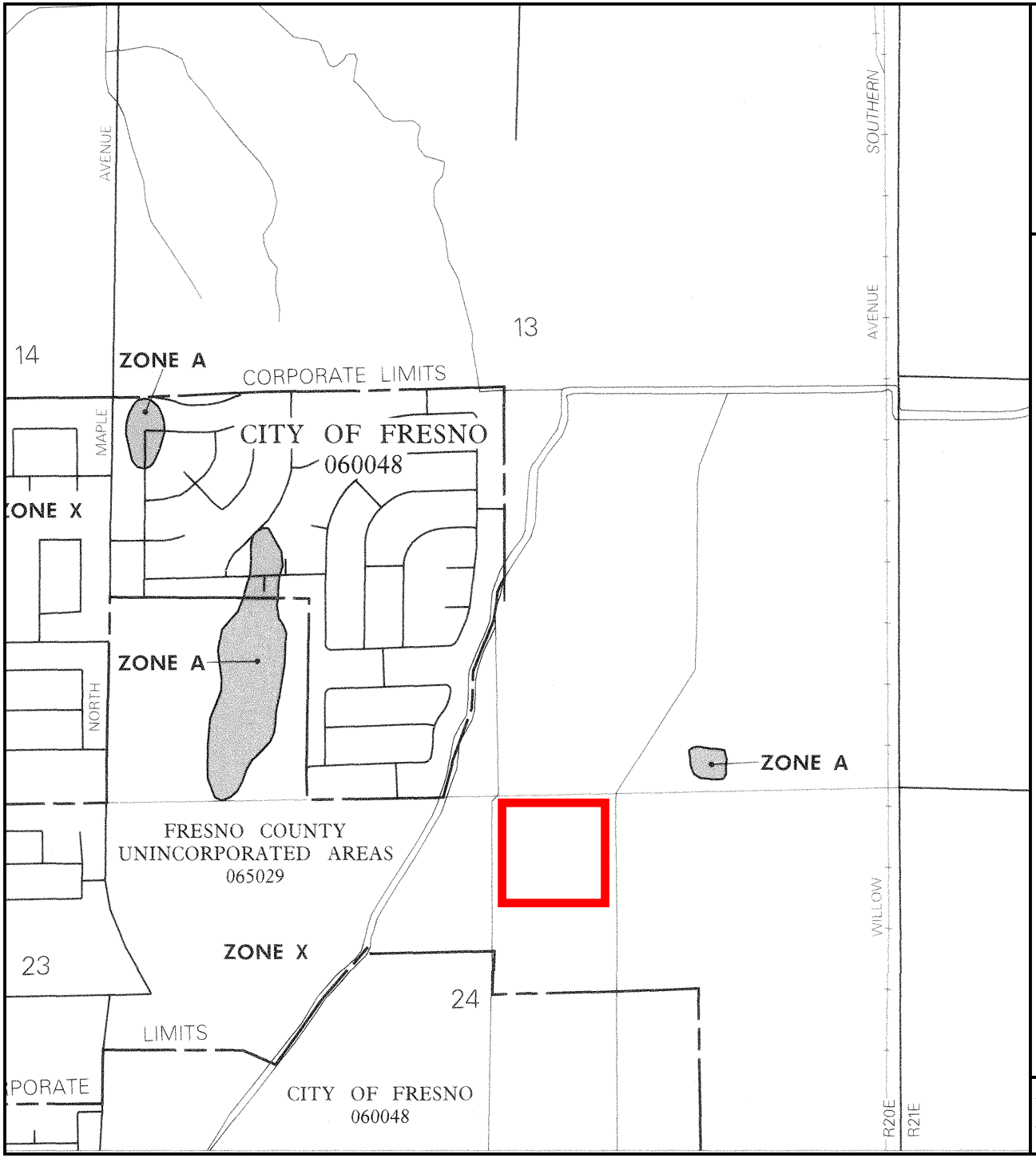

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1040 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1040	F
FRESNO COUNTY UNINCORPORATED AREAS	065029	1040	F

MAP NUMBER
06019C1040 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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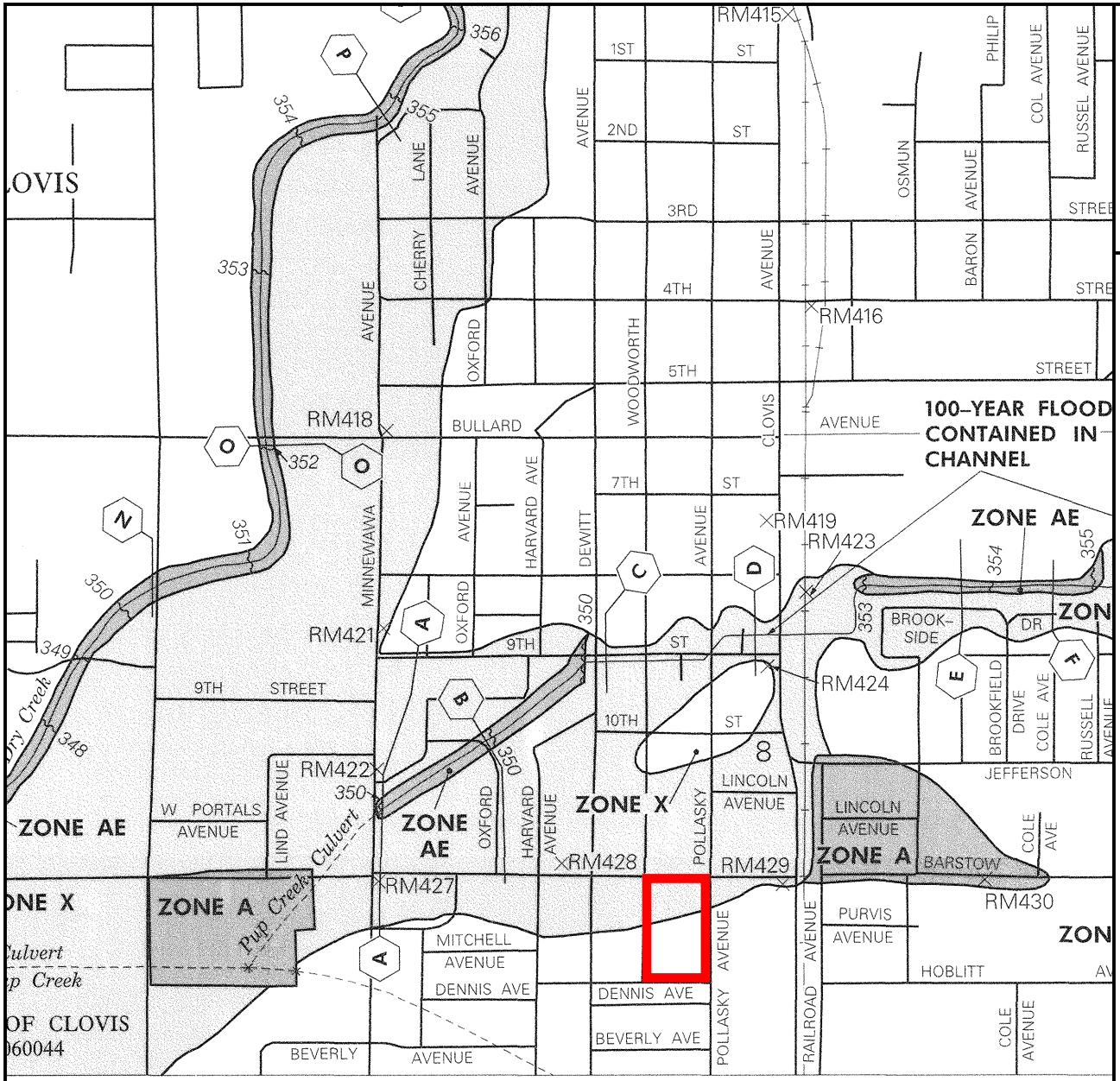

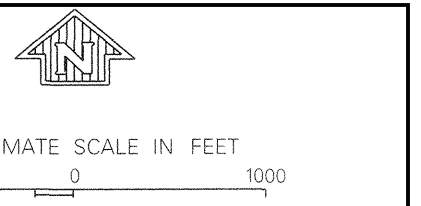

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1580 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1580	F
FRESNO, CITY OF	060048	1580	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1580	F

MAP NUMBER
06019C1580 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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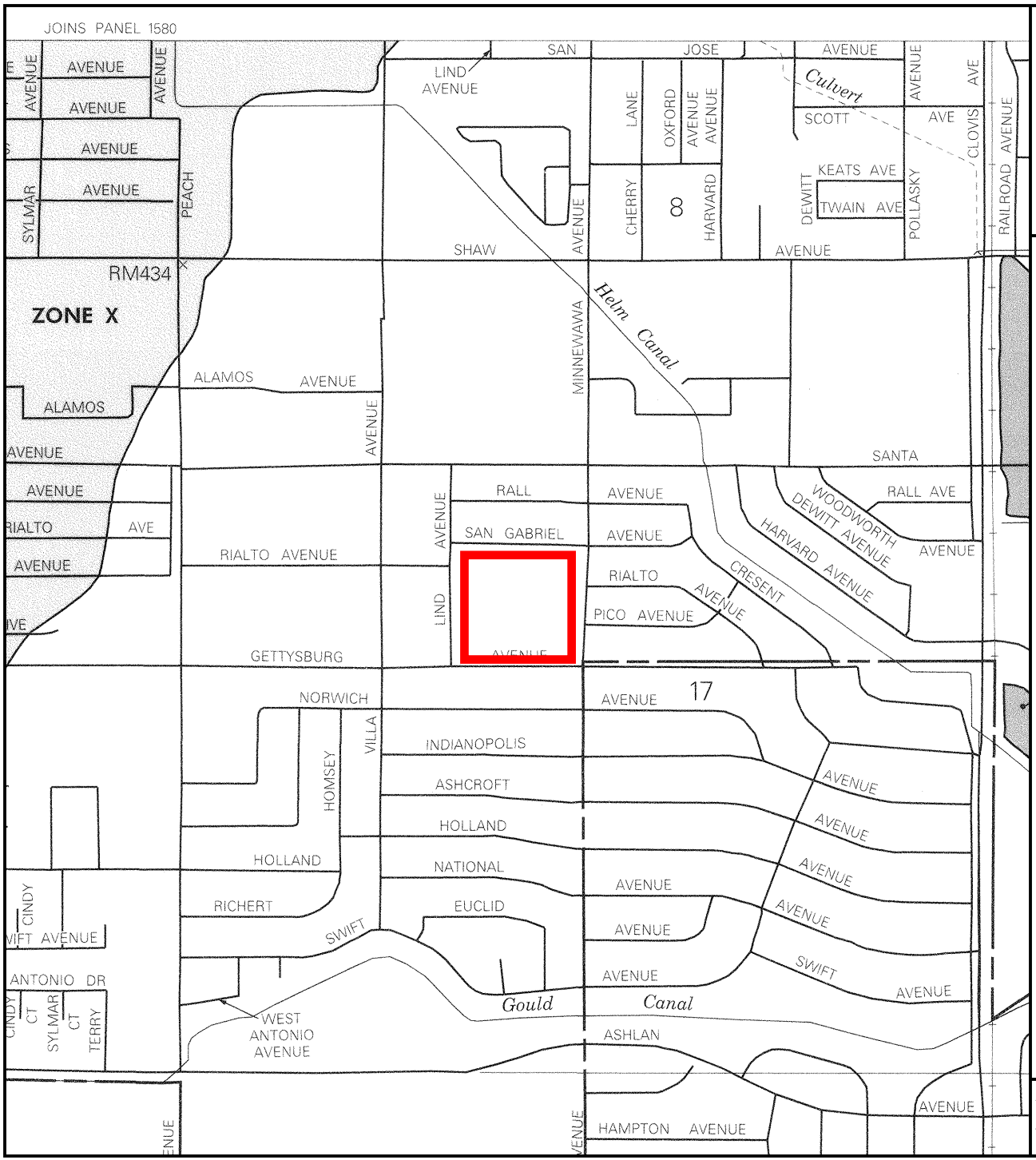

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1590 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1590	F
FRESNO, CITY OF	060048	1590	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1590	F

MAP NUMBER
06019C1590 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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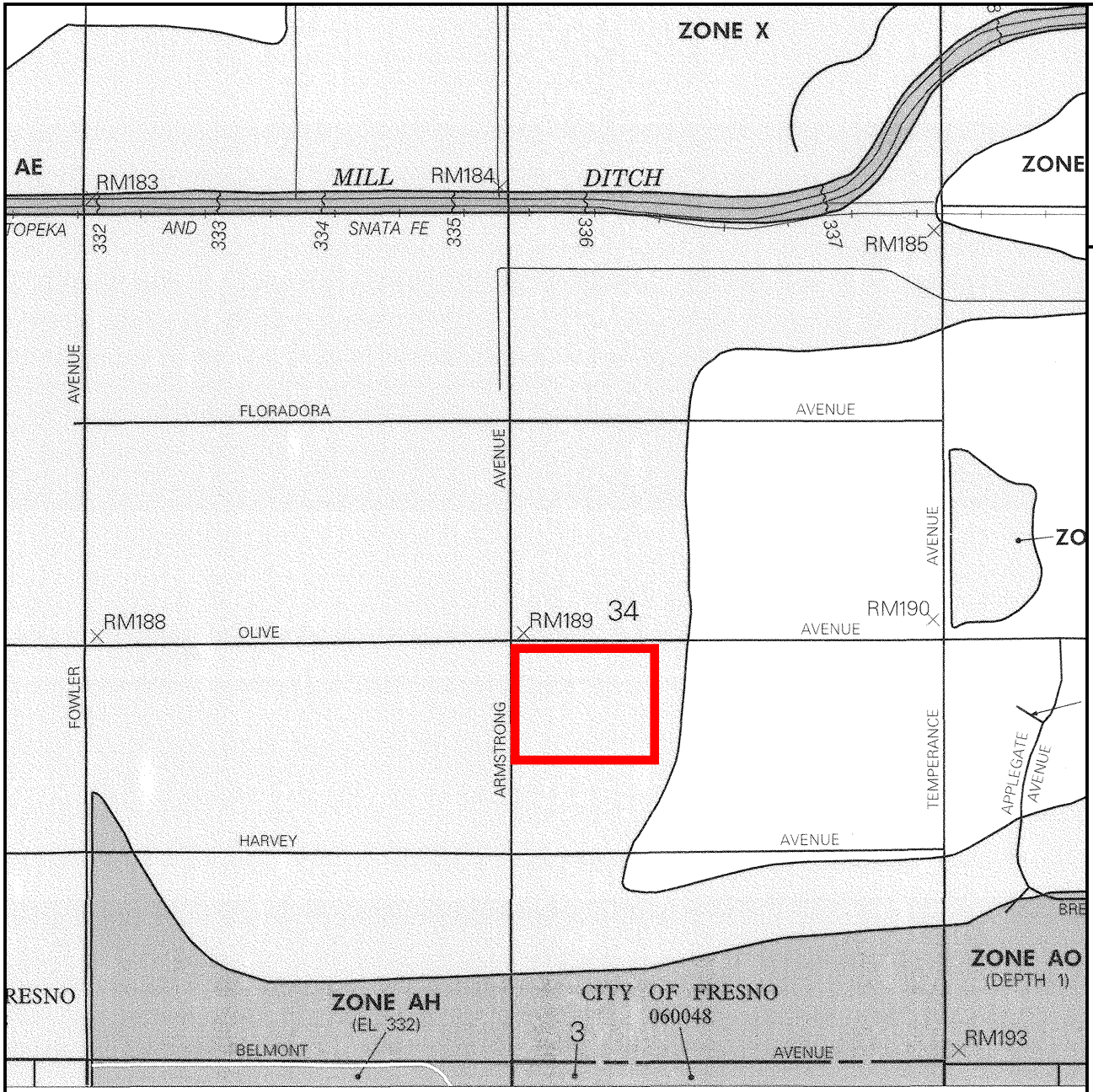

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1595 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1595	F
FRESNO, CITY OF	060048	1595	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1595	F

MAP NUMBER
06019C1595 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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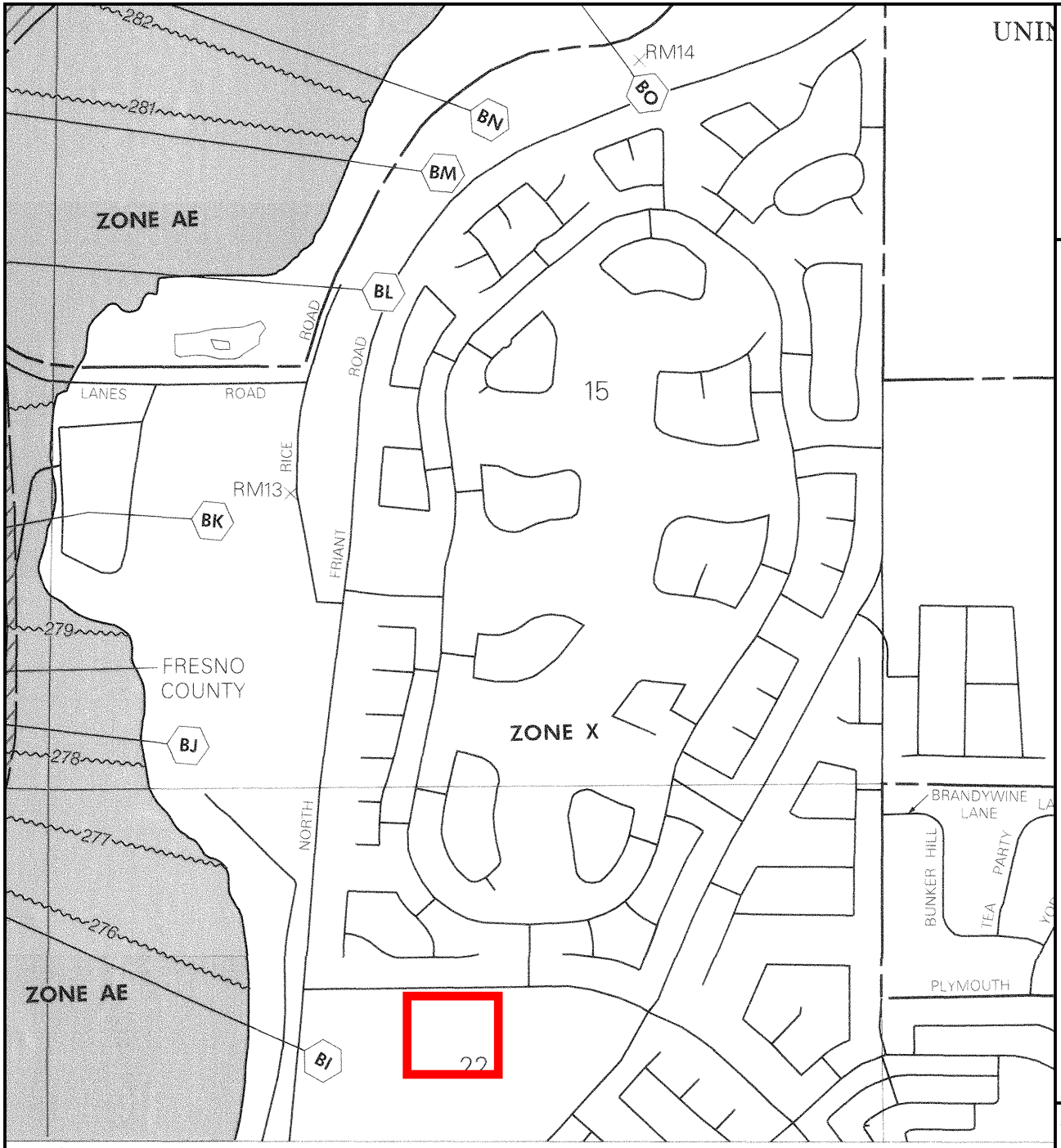

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1020 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS COMMUNITY	NUMBER	PANEL	SUFFIX
FRESNO, CITY OF	060048	1020	F
FRESNO COUNTY UNINCORPORATED AREAS	065029	1020	F

MAP NUMBER
06019C1020 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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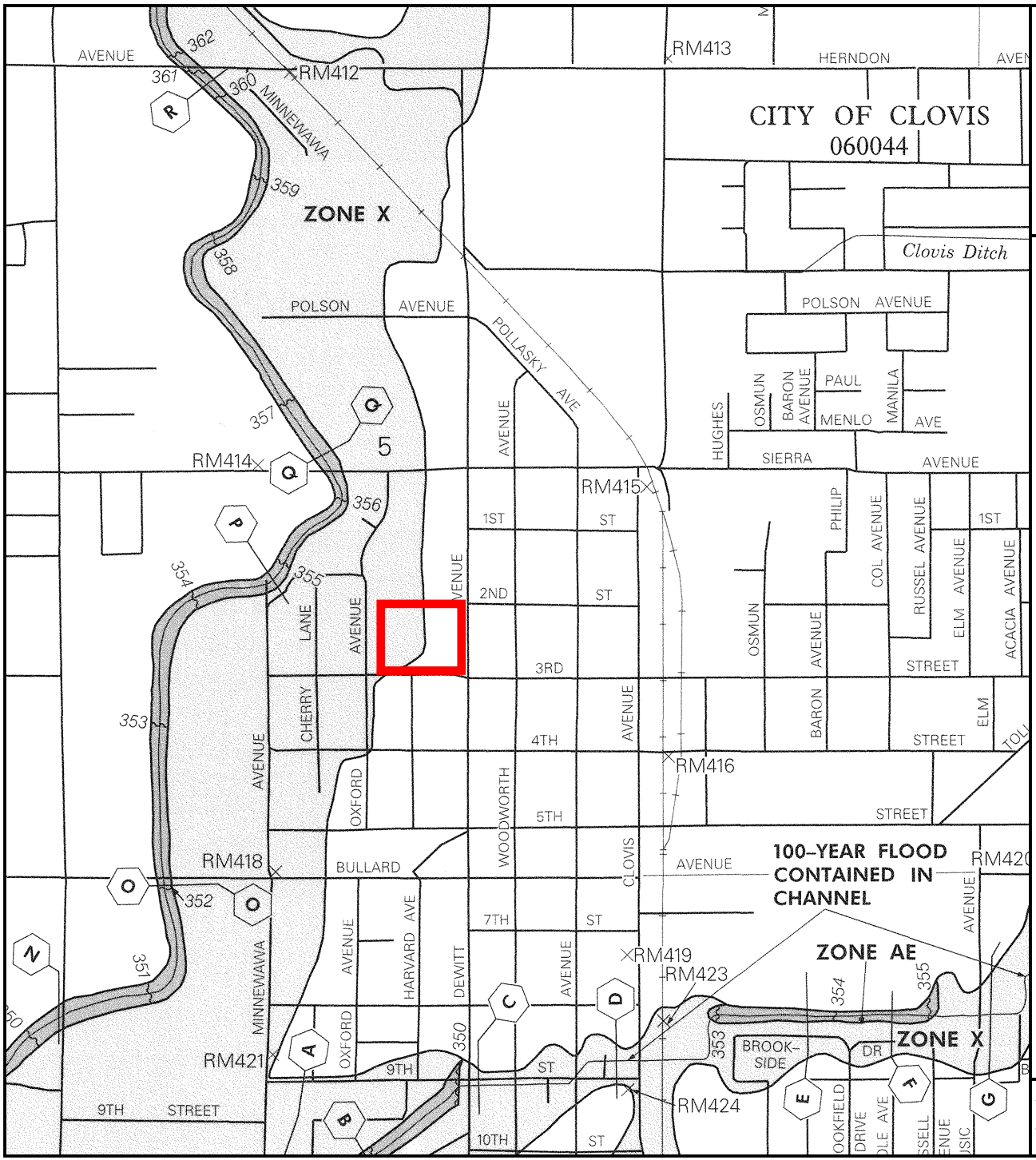

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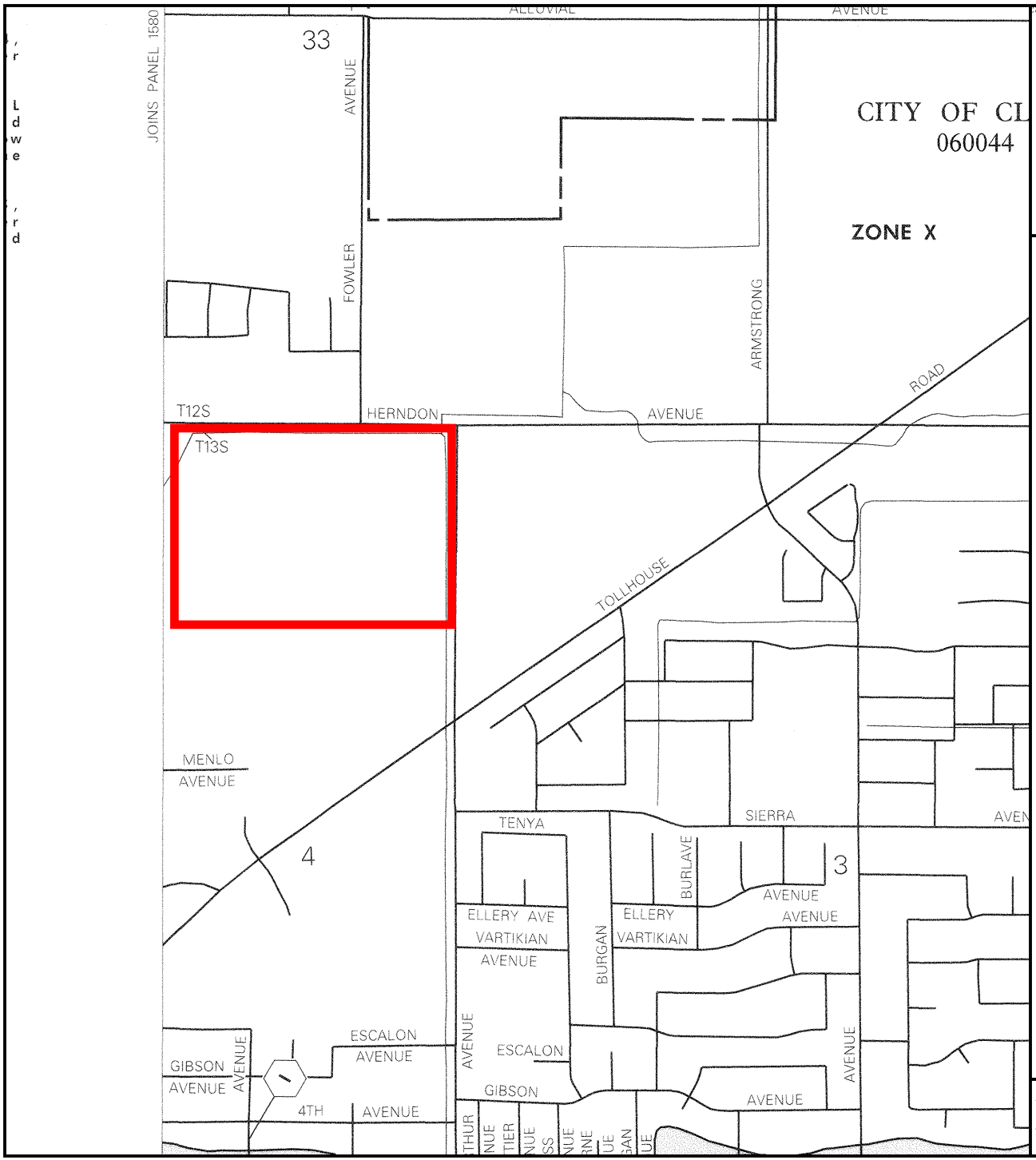

APPROXIMATE SCALE IN FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1585 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1585	F
FRESNO, COUNTY OF, UNINCORPORATED AREAS	065029	1585	F

MAP NUMBER
06019C1585 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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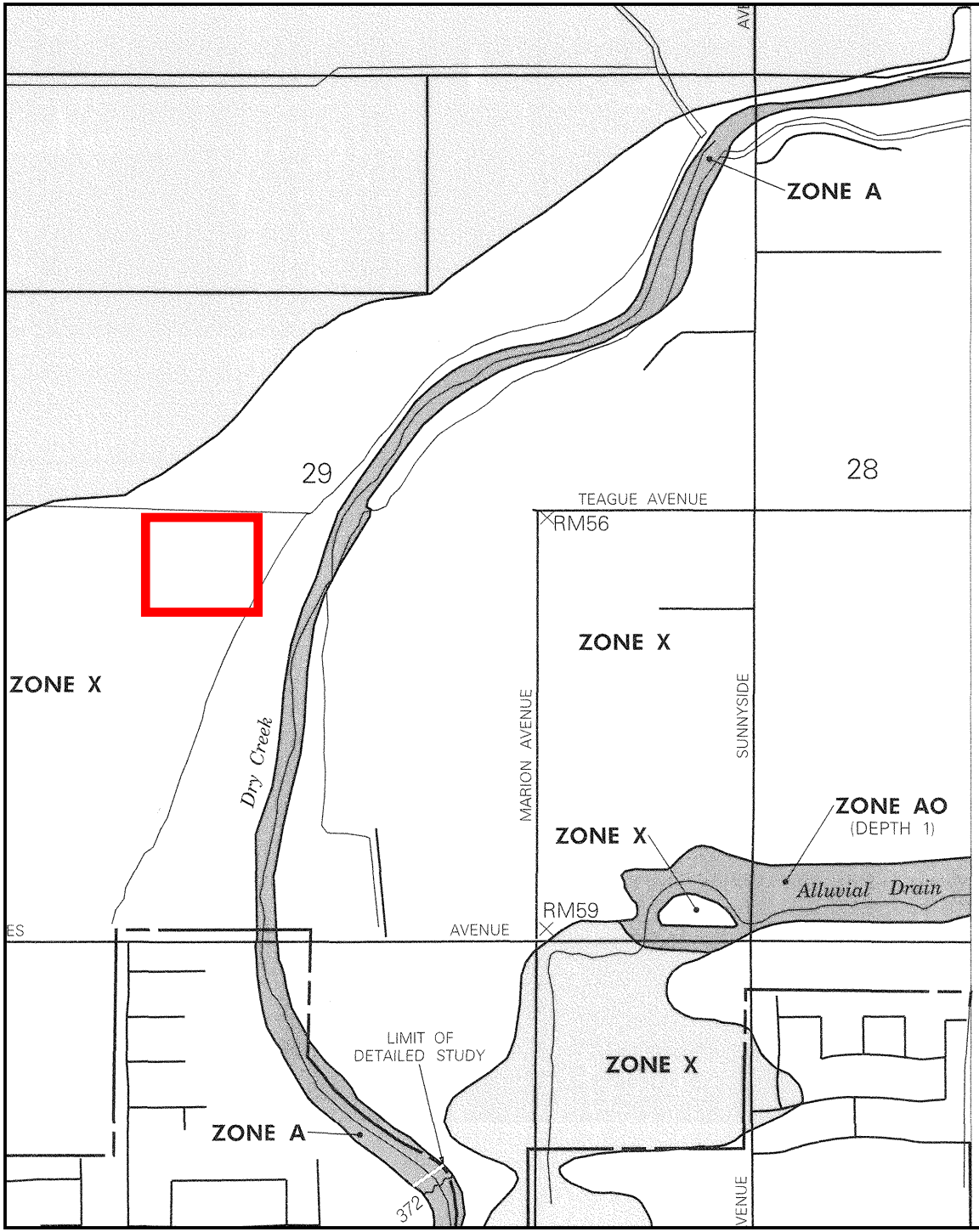

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FRESNO COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 1580 OF 3550

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLOVIS, CITY OF	060044	1580	F
FRESNO, CITY OF	060048	1580	F
FRESNO COUNTY, UNINCORPORATED AREAS	065029	1580	F

MAP NUMBER
06019C1580 F

EFFECTIVE DATE:
JULY 19, 2001

Federal Emergency Management Agency

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Appendix C: Roofing Material and Construction for CUSD Buildings

Roof Materials by CUSD Site
Roof Material Totals for the Clovis Unified School District

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RoofMat	Total
ASPHALT SHINGLES-100%	24
ASPHALT SHINGLES-105%	1
ASPHALT SHINGLES-105% BUILT-UP, SMOOTH-15%	2
ASPHALT SHINGLES-110%	10
ASPHALT SHINGLES-115%	12
ASPHALT SHINGLES-120%	25
ASPHALT SHINGLES-125%	13
ASPHALT SHINGLES-130%	24
ASPHALT SHINGLES-135%	15
ASPHALT SHINGLES-140%	5
ASPHALT SHINGLES-160%	7
ASPHALT SHINGLES-30% BUILT-UP, SMOOTH-80%	2
ASPHALT SHINGLES-35% BUILT-UP, SMOOTH-75%	1
ASPHALT SHINGLES-45% BUILT-UP, SMOOTH-65%	2
ASPHALT SHINGLES-45% BUILT-UP, SMOOTH-70%	1
ASPHALT SHINGLES-5% BUILT-UP, SMOOTH-130%	1
ASPHALT SHINGLES-60% BUILT-UP, SMOOTH-40%	2
ASPHALT SHINGLES-60% BUILT-UP, SMOOTH-70%	1
ASPHALT SHINGLES-70% BUILT-UP, SMOOTH-25% METAL SANDWICH PANELS-5%	1
ASPHALT SHINGLES-70% BUILT-UP, SMOOTH-40%	2
ASPHALT SHINGLES-75% BUILT-UP, SMOOTH-25%	1
ASPHALT SHINGLES-75% BUILT-UP, SMOOTH-35%	1
ASPHALT SHINGLES-80% BUILT-UP, SMOOTH-20%	6
ASPHALT SHINGLES-80% BUILT-UP, SMOOTH-20% METAL SANDWICH PANELS-5%	1
ASPHALT SHINGLES-80% BUILT-UP, SMOOTH-35%	1
ASPHALT SHINGLES-85% BUILT-UP, SMOOTH-25%	1
ASPHALT SHINGLES-90% BUILT-UP, SMOOTH-10%	1
ASPHALT SHINGLES-90% BUILT-UP, TAR AND GRAVEL OR ROCK-30%	1
ASPHALT SHINGLES-95% BUILT-UP, SMOOTH-20%	6
BUILT-UP, SMOOTH	1
BUILT-UP, SMOOTH-10% BUILT-UP, TAR AND GRAVEL OR ROCK-100%	1
BUILT-UP, SMOOTH-100%	112
BUILT-UP, SMOOTH-100% METAL SANDWICH PANELS-10%	1
BUILT-UP, SMOOTH-100% METAL SANDWICH PANELS-15%	4
BUILT-UP, SMOOTH-100% METAL SANDWICH PANELS-20%	1
BUILT-UP, SMOOTH-110%	11
BUILT-UP, SMOOTH-115%	6
BUILT-UP, SMOOTH-120%	19
BUILT-UP, SMOOTH-125%	10
BUILT-UP, SMOOTH-130%	7
BUILT-UP, SMOOTH-140%	13
BUILT-UP, SMOOTH-150%	1
BUILT-UP, SMOOTH-160%	1
BUILT-UP, SMOOTH-20% METAL SANDWICH PANELS-80%	1
BUILT-UP, SMOOTH-30% METAL SANDWICH PANELS-70%	4
BUILT-UP, SMOOTH-35% METAL SANDWICH PANELS-65%	3
BUILT-UP, SMOOTH-45% METAL SANDWICH PANELS-65%	1
BUILT-UP, SMOOTH-50% METAL SANDWICH PANELS-50%	2
BUILT-UP, SMOOTH-50% METAL SANDWICH PANELS-70%	1
BUILT-UP, SMOOTH-60% METAL SANDWICH PANELS-50%	1
BUILT-UP, SMOOTH-60% METAL SANDWICH PANELS-60%	2

RoofMat	Total
BUILT-UP, SMOOTH-65% METAL SANDWICH PANELS-35%	1
BUILT-UP, SMOOTH-70% METAL SANDWICH PANELS-30%	2
BUILT-UP, SMOOTH-70% METAL SANDWICH PANELS-60%	1
BUILT-UP, SMOOTH-80% METAL SANDWICH PANELS-20%	3
BUILT-UP, SMOOTH-80% METAL SANDWICH PANELS-35%	1
BUILT-UP, SMOOTH-95% METAL SANDWICH PANELS-20%	1
BUILT-UP, SMOOTH-95% METAL SANDWICH PANELS-25%	1
BUILT-UP, TAR AND GRAVEL OR ROCK-100%	6
BUILT-UP, TAR AND GRAVEL OR ROCK-110%	6
BUILT-UP, TAR AND GRAVEL OR ROCK-110% METAL SANDWICH PANELS-15%	1
BUILT-UP, TAR AND GRAVEL OR ROCK-115%	3
BUILT-UP, TAR AND GRAVEL OR ROCK-120%	8
BUILT-UP, TAR AND GRAVEL OR ROCK-130%	2
BUILT-UP, TAR AND GRAVEL OR ROCK-40% METAL SANDWICH PANELS-60%	1
BUILT-UP, TAR AND GRAVEL OR ROCK-40% METAL SANDWICH PANELS-75%	1
BUILT-UP, TAR AND GRAVEL OR ROCK-50% METAL SANDWICH PANELS-70%	3
BUILT-UP, TAR AND GRAVEL OR ROCK-70% METAL SANDWICH PANELS-35%	1
FIBERGLASS, TRANSLUCENT PANELS-100%	1
FLAT	387
LOW, ASPHALT	1
LOW, METAL	1
METAL SANDWICH PANELS-100%	49
METAL SANDWICH PANELS-110%	1
METAL SANDWICH PANELS-115%	2
METAL SANDWICH PANELS-120%	1
METAL SANDWICH PANELS-130%	1
METAL SANDWICH PANELS-140%	2
METAL SANDWICH PANELS-160%	1
METAL, FLAT	1
N/A	16
(blank)	
Grand Total	879

RoofMat	ALTA SIERRA INTERMEDIATE SCHO	BUCHANAN HIGH SCHOOL	CEDARWOOD ELEMENTARY SCHOO	CENTURY ELEMENTARY SCHOOL	CLARK INTERMEDIATE SCHOOL	CLOVIS ACADEMY OF GYMNASTIC	CLOVIS ADULT EDUCATION	CLOVIS EAST AGRICULTURE CENTE	CLOVIS EAST HIGH SCHOOL	CLOVIS ELEMENTARY SCHOOL	CLOVIS HIGH SCHOOL	CLOVIS MEDICAL THERAPY UNIT	CLOVIS WEST HIGH SCHOOL	COLE ELEMENTARY SCHOOL	COPPER HILLS ELEMENTARY SCHO	COX ELEMENTARY SCHOOL	DISTRICT OFFICE	DISTRICT SERVICE BUILDING	DRY CREEK ELEMENTARY SCHOOL	EXCEL HIGH SCHOOL	FANCHER CREEK ELEMENTARY SCH	FORT WASHINGTON ELEM. SCHOOL	FREEDOM ELEMENTARY SCHOOL	FRIANT ELEMENTARY SCHOOL	FUGMAN ELEMENTARY SCHOOL	GARFIELD ELEMENTARY SCHOOL	GATEWAY CONTINUATION HIGH SCH
ASPHALT SHINGLES-100%		1													2				5					1			10
ASPHALT SHINGLES-105%														1													
ASPHALT SHINGLES-105% BUILT-UP, SMOOTH-15%																						2					
ASPHALT SHINGLES-110%										1				1													
ASPHALT SHINGLES-115%																								1			
ASPHALT SHINGLES-120%					8										3				2								
ASPHALT SHINGLES-125%																											
ASPHALT SHINGLES-130%			2											4		2											
ASPHALT SHINGLES-135%															1												
ASPHALT SHINGLES-140%																											
ASPHALT SHINGLES-160%			7																								
ASPHALT SHINGLES-30% BUILT-UP, SMOOTH-80%															2												
ASPHALT SHINGLES-35% BUILT-UP, SMOOTH-75%																											
ASPHALT SHINGLES-45% BUILT-UP, SMOOTH-65%																			1								
ASPHALT SHINGLES-45% BUILT-UP, SMOOTH-70%																						1					
ASPHALT SHINGLES-5% BUILT-UP, SMOOTH-130%													1														
ASPHALT SHINGLES-60% BUILT-UP, SMOOTH-40%																						1					
ASPHALT SHINGLES-60% BUILT-UP, SMOOTH-70%																						1					
ASPHALT SHINGLES-70% BUILT-UP, SMOOTH-25% METAL SANDWICH PANELS-5%																						1					
ASPHALT SHINGLES-70% BUILT-UP, SMOOTH-40%										1																	
ASPHALT SHINGLES-75% BUILT-UP, SMOOTH-25%																											
ASPHALT SHINGLES-75% BUILT-UP, SMOOTH-35%																											

RoofMat	ALTA SIERRA INTERMEDIATE SCHO	BUCHANAN HIGH SCHOOL	CEDARWOOD ELEMENTARY SCHOO	CENTURY ELEMENTARY SCHOOL	CLARK INTERMEDIATE SCHOOL	CLOVIS ACADEMY OF GYMNASTIC	CLOVIS ADULT EDUCATION	CLOVIS EAST AGRICULTURE CENTE	CLOVIS EAST HIGH SCHOOL	CLOVIS ELEMENTARY SCHOOL	CLOVIS HIGH SCHOOL	CLOVIS MEDICAL THERAPY UNIT	CLOVIS WEST HIGH SCHOOL	COLE ELEMENTARY SCHOOL	COPPER HILLS ELEMENTARY SCHO	COX ELEMENTARY SCHOOL	DISTRICT OFFICE	DISTRICT SERVICE BUILDING	DRY CREEK ELEMENTARY SCHOOL	EXCEL HIGH SCHOOL	FANCHER CREEK ELEMENTARY SCH	FORT WASHINGTON ELEM. SCHOOL	FREEDOM ELEMENTARY SCHOOL	FRIANT ELEMENTARY SCHOOL	FUGMAN ELEMENTARY SCHOOL	GARFIELD ELEMENTARY SCHOOL	GATEWAY CONTINUATION HIGH SCH
ASPHALT SHINGLES-80% BUILT-UP, SMOOTH-20%										6																	
ASPHALT SHINGLES-80% BUILT-UP, SMOOTH-20% METAL SANDWICH PANELS-5%																											
ASPHALT SHINGLES-80% BUILT-UP, SMOOTH-35%										1																	
ASPHALT SHINGLES-85% BUILT-UP, SMOOTH-25%																											
ASPHALT SHINGLES-90% BUILT-UP, SMOOTH-10%																							1				
ASPHALT SHINGLES-90% BUILT-UP, TAR AND GRAVEL OR ROCK-30%					1																						
ASPHALT SHINGLES-95% BUILT-UP, SMOOTH-20%																											
BUILT-UP, SMOOTH																											
BUILT-UP, SMOOTH-10% BUILT-UP, TAR AND GRAVEL OR ROCK-100%																1											
BUILT-UP, SMOOTH-100%	9	27			6			3	7		18	1	7	1			1	1			1					3	
BUILT-UP, SMOOTH-100% METAL SANDWICH PANELS-10%																											
BUILT-UP, SMOOTH-100% METAL SANDWICH PANELS-15%																											
BUILT-UP, SMOOTH-100% METAL SANDWICH PANELS-20%																											
BUILT-UP, SMOOTH-110%	3	1			1						1			1		1											
BUILT-UP, SMOOTH-115%	1												2														
BUILT-UP, SMOOTH-120%	3										2		4								2					4	
BUILT-UP, SMOOTH-125%	1												3				1				5						
BUILT-UP, SMOOTH-130%		2																			1						
BUILT-UP, SMOOTH-140%																					1						
BUILT-UP, SMOOTH-150%									1																		
BUILT-UP, SMOOTH-160%																											
BUILT-UP, SMOOTH-20% METAL SANDWICH PANELS-80%													1														

RoofMat	ALTA SIERRA INTERMEDIATE SCHO	BUCHANAN HIGH SCHOOL	CEDARWOOD ELEMENTARY SCHOO	CENTURY ELEMENTARY SCHOOL	CLARK INTERMEDIATE SCHOOL	CLOVIS ACADEMY OF GYMNASTIC	CLOVIS ADULT EDUCATION	CLOVIS EAST AGRICULTURE CENTE	CLOVIS EAST HIGH SCHOOL	CLOVIS ELEMENTARY SCHOOL	CLOVIS HIGH SCHOOL	CLOVIS MEDICAL THERAPY UNIT	CLOVIS WEST HIGH SCHOOL	COLE ELEMENTARY SCHOOL	COPPER HILLS ELEMENTARY SCHO	COX ELEMENTARY SCHOOL	DISTRICT OFFICE	DISTRICT SERVICE BUILDING	DRY CREEK ELEMENTARY SCHOOL	EXCEL HIGH SCHOOL	FANCHER CREEK ELEMENTARY SCH	FORT WASHINGTON ELEM. SCHOOL	FREEDOM ELEMENTARY SCHOOL	FRIANT ELEMENTARY SCHOOL	FUGMAN ELEMENTARY SCHOOL	GARFIELD ELEMENTARY SCHOOL	GATEWAY CONTINUATION HIGH SCH
BUILT-UP, SMOOTH-30% METAL SANDWICH PANELS-70%								2					1													1		
BUILT-UP, SMOOTH-35% METAL SANDWICH PANELS-65%																										2		
BUILT-UP, SMOOTH-45% METAL SANDWICH PANELS-65%								1																				
BUILT-UP, SMOOTH-50% METAL SANDWICH PANELS-50%																										1		
BUILT-UP, SMOOTH-50% METAL SANDWICH PANELS-70%													1															
BUILT-UP, SMOOTH-60% METAL SANDWICH PANELS-50%																												
BUILT-UP, SMOOTH-60% METAL SANDWICH PANELS-60%																												
BUILT-UP, SMOOTH-65% METAL SANDWICH PANELS-35%																										1		
BUILT-UP, SMOOTH-70% METAL SANDWICH PANELS-30%																												
BUILT-UP, SMOOTH-70% METAL SANDWICH PANELS-60%																												
BUILT-UP, SMOOTH-80% METAL SANDWICH PANELS-20%																												
BUILT-UP, SMOOTH-80% METAL SANDWICH PANELS-35%					1																							
BUILT-UP, SMOOTH-95% METAL SANDWICH PANELS-20%																												
BUILT-UP, SMOOTH-95% METAL SANDWICH PANELS-25%													1															
BUILT-UP, TAR AND GRAVEL OR ROCK-100%					1				3		1					1												
BUILT-UP, TAR AND GRAVEL OR ROCK-110%									1							1												
BUILT-UP, TAR AND GRAVEL OR ROCK-110% METAL SANDWICH PANELS-15%																												
BUILT-UP, TAR AND GRAVEL OR ROCK-115%																												

RoofMat	ALTA SIERRA INTERMEDIATE SCHO	BUCHANAN HIGH SCHOOL	CEDARWOOD ELEMENTARY SCHOO	CENTURY ELEMENTARY SCHOOL	CLARK INTERMEDIATE SCHOOL	CLOVIS ACADEMY OF GYMNASTIC	CLOVIS ADULT EDUCATION	CLOVIS EAST AGRICULTURE CENTE	CLOVIS EAST HIGH SCHOOL	CLOVIS ELEMENTARY SCHOOL	CLOVIS HIGH SCHOOL	CLOVIS MEDICAL THERAPY UNIT	CLOVIS WEST HIGH SCHOOL	COLE ELEMENTARY SCHOOL	COPPER HILLS ELEMENTARY SCHO	COX ELEMENTARY SCHOOL	DISTRICT OFFICE	DISTRICT SERVICE BUILDING	DRY CREEK ELEMENTARY SCHOOL	EXCEL HIGH SCHOOL	FANCHER CREEK ELEMENTARY SCH	FORT WASHINGTON ELEM. SCHOOL	FREEDOM ELEMENTARY SCHOOL	FRIANT ELEMENTARY SCHOOL	FUGMAN ELEMENTARY SCHOOL	GARFIELD ELEMENTARY SCHOOL	GATEWAY CONTINUATION HIGH SCH
BUILT-UP, TAR AND GRAVEL OR ROCK-120%									1																		
BUILT-UP, TAR AND GRAVEL OR ROCK-130%																											
BUILT-UP, TAR AND GRAVEL OR ROCK-40% METAL SANDWICH PANELS-60%									1																		
BUILT-UP, TAR AND GRAVEL OR ROCK-40% METAL SANDWICH PANELS-75%																											
BUILT-UP, TAR AND GRAVEL OR ROCK-50% METAL SANDWICH PANELS-70%																											
BUILT-UP, TAR AND GRAVEL OR ROCK-70% METAL SANDWICH PANELS-35%																											
FIBERGLASS, TRANSLUCENT PANELS-100%								1																			
FLAT	7	1		16	9		48		1	2	10		21	7	7	6			12	4	17	8	2	1		14	4
LOW, ASPHALT														1													
LOW, METAL													1														
METAL SANDWICH PANELS-100%	1	6		5	1	1		1	9		4		3								2		6			6	
METAL SANDWICH PANELS-110%																							1				
METAL SANDWICH PANELS-115%																							1				
METAL SANDWICH PANELS-120%																							1				
METAL SANDWICH PANELS-130%																											
METAL SANDWICH PANELS-140%				2																							
METAL SANDWICH PANELS-160%				1																							
METAL, FLAT													1														
N/A	1	5							1		4		3														
(blank)																											
Grand Total	**26**	**43**	**9**	**24**	**28**	**1**	**48**	**8**	**25**	**11**	**40**	**1**	**50**	**16**	**15**	**12**	**2**	**1**	**20**	**4**	**29**	**15**	**11**	**3**	**5**	**27**	**14**

RoofMat	GETTYSBURG ELEMENTARY SCHOO	JEFFERSON ELEMENTARY SCHOOL	KASTNER INTERMEDIATE SCHOOL	LIBERTY ELEMENTARY SCHOOL	LINCOLN ELEMENTARY SCHOOL	MAINTENANCE/TRANSPORTATION	MAPLE CREEK ELEMENTARY SCHO	MIRAMONTE ELEMENTARY SCHOOL	MOUNTAIN VIEW ELEMENTARY SCH	NELSON ELEMENTARY SCHOOL	OPERATIONS/GROUNDS	PINEDALE ELEMENTARY SCHOOL	PROFESSIONAL DEVELOPMENT/WA	REAGAN PRIMARY SCHOOL	RED BANK ELEMENTARY SCHOOL	REYBURN INTERMEDIATE SCHOOL	RIVERVIEW ELEMENTARY SCHOOL	SECURITY/ATTENDANCE	SIERRA VISTA ELEMENTARY SCHOO	TARPEY ELEMENTARY SCHOOL	TEMPERANCE-KUTNER ELEMENTAR	VALLEY OAK ELEMENTARY SCHOOL	WELDON ELEMENTARY SCHOOL	WOODS ELEMENTARY SCHOOL	(blank)	Grand Total
ASPHALT SHINGLES-100%								2		1												1	1				24
ASPHALT SHINGLES-105%																											1
ASPHALT SHINGLES-105% BUILT-UP, SMOOTH-15%																											2
ASPHALT SHINGLES-110%		1					1	1													2	2		1			10
ASPHALT SHINGLES-115%				6				1							2						2						12
ASPHALT SHINGLES-120%	4			1			1												4	1	1						25
ASPHALT SHINGLES-125%	6						1												1	5							13
ASPHALT SHINGLES-130%		7																			4			5			24
ASPHALT SHINGLES-135%		1					7								6												15
ASPHALT SHINGLES-140%												1									3			1			5
ASPHALT SHINGLES-160%																											7
ASPHALT SHINGLES-30% BUILT-UP, SMOOTH-80%																											2
ASPHALT SHINGLES-35% BUILT-UP, SMOOTH-75%				1																							1
ASPHALT SHINGLES-45% BUILT-UP, SMOOTH-65%		1																									2
ASPHALT SHINGLES-45% BUILT-UP, SMOOTH-70%																											1
ASPHALT SHINGLES-5% BUILT-UP, SMOOTH-130%																											1
ASPHALT SHINGLES-60% BUILT-UP, SMOOTH-40%																			1								2
ASPHALT SHINGLES-60% BUILT-UP, SMOOTH-70%																											1
ASPHALT SHINGLES-70% BUILT-UP, SMOOTH-25% METAL SANDWICH PANELS-5%																											1
ASPHALT SHINGLES-70% BUILT-UP, SMOOTH-40%																								1			2
ASPHALT SHINGLES-75% BUILT-UP, SMOOTH-25%																			1								1
ASPHALT SHINGLES-75% BUILT-UP, SMOOTH-35%																			1								1

RoofMat	GETTYSBURG ELEMENTARY SCHOO	JEFFERSON ELEMENTARY SCHOOL	KASTNER INTERMEDIATE SCHOOL	LIBERTY ELEMENTARY SCHOOL	LINCOLN ELEMENTARY SCHOOL	MAINTENANCE/TRANSPORTATION	MAPLE CREEK ELEMENTARY SCHO	MIRAMONTE ELEMENTARY SCHOOL	MOUNTAIN VIEW ELEMENTARY SCH	NELSON ELEMENTARY SCHOOL	OPERATIONS/GROUNDS	PINEDALE ELEMENTARY SCHOOL	PROFESSIONAL DEVELOPMENT/WA	REAGAN PRIMARY SCHOOL	RED BANK ELEMENTARY SCHOOL	REYBURN INTERMEDIATE SCHOOL	RIVERVIEW ELEMENTARY SCHOOL	SECURITY/ATTENDANCE	SIERRA VISTA ELEMENTARY SCHOO	TARPEY ELEMENTARY SCHOOL	TEMPERANCE-KUTNER ELEMENTAR	VALLEY OAK ELEMENTARY SCHOOL	WELDON ELEMENTARY SCHOOL	WOODS ELEMENTARY SCHOOL	(blank)	Grand Total
ASPHALT SHINGLES-80% BUILT-UP, SMOOTH-20%																											6
ASPHALT SHINGLES-80% BUILT-UP, SMOOTH-20% METAL SANDWICH PANELS-5%										1																	1
ASPHALT SHINGLES-80% BUILT-UP, SMOOTH-35%																											1
ASPHALT SHINGLES-85% BUILT-UP, SMOOTH-25%																								1			1
ASPHALT SHINGLES-90% BUILT-UP, SMOOTH-10%																											1
ASPHALT SHINGLES-90% BUILT-UP, TAR AND GRAVEL OR ROCK-30%																											1
ASPHALT SHINGLES-95% BUILT-UP, SMOOTH-20%				1				5																			6
BUILT-UP, SMOOTH																									1		1
BUILT-UP, SMOOTH-10% BUILT-UP, TAR AND GRAVEL OR ROCK-100%																											1
BUILT-UP, SMOOTH-100%					1					2			1			19		1							3		112
BUILT-UP, SMOOTH-100% METAL SANDWICH PANELS-10%																	1										1
BUILT-UP, SMOOTH-100% METAL SANDWICH PANELS-15%									4																		4
BUILT-UP, SMOOTH-100% METAL SANDWICH PANELS-20%									1																		1
BUILT-UP, SMOOTH-110%				1								1											1				11
BUILT-UP, SMOOTH-115%									2				1														6
BUILT-UP, SMOOTH-120%					1					2		1															19
BUILT-UP, SMOOTH-125%																											10
BUILT-UP, SMOOTH-130%					1					3																	7
BUILT-UP, SMOOTH-140%					6																		6				13
BUILT-UP, SMOOTH-150%																											1
BUILT-UP, SMOOTH-160%					1																						1
BUILT-UP, SMOOTH-20% METAL SANDWICH PANELS-80%																											1

RoofMat	GETTYSBURG ELEMENTARY SCHOO	JEFFERSON ELEMENTARY SCHOOL	KASTNER INTERMEDIATE SCHOOL	LIBERTY ELEMENTARY SCHOOL	LINCOLN ELEMENTARY SCHOOL	MAINTENANCE/TRANSPORTATION	MAPLE CREEK ELEMENTARY SCHOO	MIRAMONTE ELEMENTARY SCHOOL	MOUNTAIN VIEW ELEMENTARY SCH	NELSON ELEMENTARY SCHOOL	OPERATIONS/GROUNDS	PINEDALE ELEMENTARY SCHOOL	PROFESSIONAL DEVELOPMENT/WA	REAGAN PRIMARY SCHOOL	RED BANK ELEMENTARY SCHOOL	REYBURN INTERMEDIATE SCHOOL	RIVERVIEW ELEMENTARY SCHOOL	SECURITY/ATTENDANCE	SIERRA VISTA ELEMENTARY SCHOO	TARPEY ELEMENTARY SCHOOL	TEMPERANCE-KUTNER ELEMENTAR	VALLEY OAK ELEMENTARY SCHOOL	WELDON ELEMENTARY SCHOOL	WOODS ELEMENTARY SCHOOL	(blank)	Grand Total
BUILT-UP, SMOOTH-30% METAL SANDWICH PANELS-70%																											4
BUILT-UP, SMOOTH-35% METAL SANDWICH PANELS-65%																	1										3
BUILT-UP, SMOOTH-45% METAL SANDWICH PANELS-65%																											1
BUILT-UP, SMOOTH-50% METAL SANDWICH PANELS-50%																	1										2
BUILT-UP, SMOOTH-50% METAL SANDWICH PANELS-70%																											1
BUILT-UP, SMOOTH-60% METAL SANDWICH PANELS-50%									1																		1
BUILT-UP, SMOOTH-60% METAL SANDWICH PANELS-60%									1								1										2
BUILT-UP, SMOOTH-65% METAL SANDWICH PANELS-35%																											1
BUILT-UP, SMOOTH-70% METAL SANDWICH PANELS-30%																							2				2
BUILT-UP, SMOOTH-70% METAL SANDWICH PANELS-60%					1																						1
BUILT-UP, SMOOTH-80% METAL SANDWICH PANELS-20%																									3		3
BUILT-UP, SMOOTH-80% METAL SANDWICH PANELS-35%																											1
BUILT-UP, SMOOTH-95% METAL SANDWICH PANELS-20%									1																		1
BUILT-UP, SMOOTH-95% METAL SANDWICH PANELS-25%																											1
BUILT-UP, TAR AND GRAVEL OR ROCK-100%																											6
BUILT-UP, TAR AND GRAVEL OR ROCK-110%			4																								6
BUILT-UP, TAR AND GRAVEL OR ROCK-110% METAL SANDWICH PANELS-15%			1																								1
BUILT-UP, TAR AND GRAVEL OR ROCK-115%			3																								3

RoofMat	GETTYSBURG ELEMENTARY SCHOO	JEFFERSON ELEMENTARY SCHOOL	KASTNER INTERMEDIATE SCHOOL	LIBERTY ELEMENTARY SCHOOL	LINCOLN ELEMENTARY SCHOOL	MAINTENANCE/TRANSPORTATION	MAPLE CREEK ELEMENTARY SCHO	MIRAMONTE ELEMENTARY SCHOOL	MOUNTAIN VIEW ELEMENTARY SCH	NELSON ELEMENTARY SCHOOL	OPERATIONS/GROUNDS	PINEDALE ELEMENTARY SCHOOL	PROFESSIONAL DEVELOPMENT/WA	REAGAN PRIMARY SCHOOL	RED BANK ELEMENTARY SCHOOL	REYBURN INTERMEDIATE SCHOOL	RIVERVIEW ELEMENTARY SCHOOL	SECURITY/ATTENDANCE	SIERRA VISTA ELEMENTARY SCHOO	TARPEY ELEMENTARY SCHOOL	TEMPERANCE-KUTNER ELEMENTAR	VALLEY OAK ELEMENTARY SCHOOL	WELDON ELEMENTARY SCHOOL	WOODS ELEMENTARY SCHOOL	(blank)	Grand Total
BUILT-UP, TAR AND GRAVEL OR ROCK-120%			7																								8
BUILT-UP, TAR AND GRAVEL OR ROCK-130%			1									1															2
BUILT-UP, TAR AND GRAVEL OR ROCK-40% METAL SANDWICH PANELS-60%																											1
BUILT-UP, TAR AND GRAVEL OR ROCK-40% METAL SANDWICH PANELS-75%																	1										1
BUILT-UP, TAR AND GRAVEL OR ROCK-50% METAL SANDWICH PANELS-70%			3																								3
BUILT-UP, TAR AND GRAVEL OR ROCK-70% METAL SANDWICH PANELS-35%			1																								1
FIBERGLASS, TRANSLUCENT PANELS-100%																											1
FLAT	9	8	10	4	9	1	14	12	10	12		6		28	5	1	2		9	16	15	5	14			387
LOW, ASPHALT																											1
LOW, METAL																											1
METAL SANDWICH PANELS-100%			2								1					1											49
METAL SANDWICH PANELS-110%																											1
METAL SANDWICH PANELS-115%						1																					2
METAL SANDWICH PANELS-120%																											1
METAL SANDWICH PANELS-130%			1																								1
METAL SANDWICH PANELS-140%																											2
METAL SANDWICH PANELS-160%																											1
METAL, FLAT																											1
N/A			1																				1				16
(blank)																											
Grand Total	**19**	**18**	**34**	**14**	**20**	**2**	**24**	**21**	**20**	**21**	**1**	**10**	**2**	**28**	**13**	**21**	**7**	**1**	**17**	**26**	**26**	**16**	**23**	**7**		**879**

Appendix D: Climate Data

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days for Fresno at Fresno Yosemite International Weather Station

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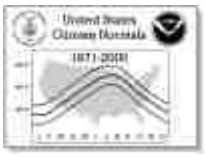


Climatography of the United States NO. 84, 1971-2000

Daily Normals of

Temperature, Precipitation, and Heating and Cooling Degree Days

(includes monthly tables for precipitation probability and quintiles)

Station Name, State:	FRESNO YOSEMITE INTL AP, CA	Station Number:	043257

Latitude: 36°47' Longitude: -119°42' Elevation: 338ft Climate Division: 05

December

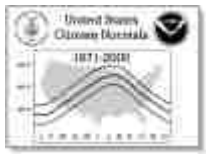
DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	57	38	48	17	0	0.04
2	56	38	47	17	0	0.04
3	56	38	47	17	0	0.04
4	56	38	47	18	0	0.04
5	55	38	47	18	0	0.04
6	55	38	46	18	0	0.04
7	55	37	46	18	0	0.04
8	55	37	46	19	0	0.04
9	54	37	46	19	0	0.04
10	54	37	46	19	0	0.04
11	54	37	46	19	0	0.04
12	54	37	45	19	0	0.04
13	53	37	45	19	0	0.04
14	53	37	45	20	0	0.04
15	53	37	45	20	0	0.04
16	53	37	45	20	0	0.04
17	53	37	45	20	0	0.04
18	53	37	45	20	0	0.04
19	53	36	45	20	0	0.04
20	52	36	44	20	0	0.04
21	52	36	44	20	0	0.04
22	52	36	44	20	0	0.04
23	52	36	44	20	0	0.05
24	52	36	44	20	0	0.05
25	52	37	44	20	0	0.05
26	52	37	44	20	0	0.05
27	52	37	44	21	0	0.05
28	52	37	44	20	0	0.05
29	52	37	44	20	0	0.05
30	52	37	44	20	0	0.05
31	52	37	44	20	0	0.06
MNTH:	53.4	37.0	45.2	598	0	1.34

January

DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	37	44	20	0	0.06
2	52	37	44	20	0	0.06
3	52	37	44	20	0	0.06
4	52	37	45	20	0	0.06
5	52	37	45	20	0	0.06
6	52	37	45	20	0	0.06
7	52	38	45	20	0	0.06
8	52	38	45	20	0	0.07
9	52	38	45	20	0	0.07
10	52	38	45	20	0	0.07
11	52	38	45	20	0	0.07
12	52	38	45	19	0	0.07
13	53	38	45	19	0	0.07
14	53	38	45	19	0	0.07
15	53	38	46	19	0	0.07
16	53	38	46	19	0	0.07
17	53	38	46	19	0	0.07
18	53	39	46	19	0	0.07
19	54	39	46	18	0	0.07
20	54	39	46	18	0	0.07
21	54	39	47	18	0	0.07
22	54	39	47	18	0	0.07
23	55	39	47	18	0	0.07
24	55	39	47	18	0	0.07
25	55	39	47	17	0	0.07
26	56	39	47	17	0	0.08
27	56	39	48	17	0	0.08
28	56	40	48	17	0	0.08
29	57	40	48	17	0	0.08
30	57	40	48	16	0	0.08
31	57	40	49	16	0	0.08
MNTH:	53.6	38.4	46.0	578	0	2.16
Winter	56.1	38.9	47.5	1553	0	5.62
Annual	75.3	51.0	63.2	2447	1963	11.23

February

DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	40	49	16	0	0.08
2	58	40	49	16	0	0.08
3	58	40	49	16	0	0.07
4	59	40	50	15	0	0.07
5	59	40	50	15	0	0.07
6	59	40	50	15	0	0.07
7	60	41	50	15	0	0.07
8	60	41	50	15	0	0.07
9	60	41	51	14	0	0.07
10	60	41	51	14	0	0.07
11	61	41	51	14	0	0.07
12	61	41	51	14	0	0.07
13	61	41	51	14	0	0.07
14	61	41	51	13	0	0.07
15	62	41	52	13	0	0.08
16	62	42	52	13	0	0.08
17	62	42	52	13	0	0.08
18	62	42	52	13	0	0.08
19	63	42	52	13	0	0.08
20	63	42	52	12	0	0.08
21	63	42	53	12	0	0.08
22	63	42	53	12	0	0.08
23	63	42	53	12	0	0.08
24	63	42	53	12	0	0.08
25	63	43	53	12	0	0.08
26	64	43	53	12	0	0.08
27	64	43	53	11	0	0.08
28	64	43	53	11	0	0.08
MNTH:	61.3	41.4	51.4	377	0	2.12



Climatography of the United States NO. 84, 1971-2000

Daily Normals of

Temperature, Precipitation, and Heating and Cooling Degree Days

(includes monthly tables for precipitation probability and quintiles)

Station Name, State:	FRESNO YOSEMITE INTL AP, CA	Station Number:	043257

Latitude: 36°47' Longitude: -119°42' Elevation: 338ft Climate Division: 05

March

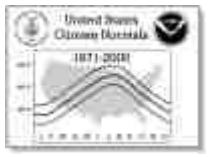
DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	64	43	54	11	0	0.08
2	64	43	54	11	0	0.08
3	64	43	54	11	0	0.08
4	64	44	54	11	0	0.08
5	64	44	54	11	0	0.08
6	64	44	54	11	0	0.08
7	64	44	54	10	0	0.08
8	65	44	54	10	0	0.08
9	65	44	54	10	0	0.08
10	65	44	55	10	0	0.08
11	65	44	55	10	0	0.08
12	65	45	55	10	0	0.08
13	65	45	55	10	0	0.08
14	65	45	55	9	0	0.08
15	66	45	55	9	0	0.07
16	66	45	55	9	0	0.07
17	66	45	56	9	0	0.07
18	66	45	56	9	0	0.07
19	66	45	56	9	0	0.07
20	67	45	56	9	0	0.07
21	67	46	56	8	0	0.07
22	67	46	56	8	0	0.07
23	67	46	56	8	0	0.07
24	68	46	57	8	0	0.06
25	68	46	57	8	0	0.06
26	68	46	57	8	0	0.06
27	68	46	57	8	0	0.06
28	69	46	57	7	0	0.06
29	69	46	57	7	**	0.05
30	69	46	58	7	**	0.05
31	69	46	58	7	**	0.05
MNTH:	66.1	44.9	55.5	283	3	2.20

April

DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	46	58	7	0	0.05
2	70	46	58	7	0	0.05
3	70	47	58	6	0	0.04
4	71	47	59	6	0	0.04
5	71	47	59	6	1	0.04
6	71	47	59	6	1	0.04
7	72	47	59	6	1	0.04
8	72	47	60	6	1	0.03
9	72	47	60	6	1	0.03
10	72	47	60	5	1	0.03
11	73	48	60	5	1	0.03
12	73	48	60	5	1	0.03
13	73	48	61	5	1	0.03
14	74	48	61	5	1	0.02
15	74	48	61	5	1	0.02
16	74	48	61	5	1	0.02
17	74	48	61	4	1	0.02
18	75	49	62	4	1	0.02
19	75	49	62	4	1	0.02
20	75	49	62	4	2	0.02
21	76	49	62	4	2	0.02
22	76	49	63	4	2	0.02
23	76	50	63	4	2	0.02
24	76	50	63	3	2	0.02
25	77	50	63	3	2	0.01
26	77	50	64	3	2	0.01
27	77	50	64	3	2	0.01
28	78	51	64	3	3	0.01
29	78	51	64	3	3	0.01
30	78	51	65	3	3	0.01
MNTH:	74.0	48.4	61.2	140	40	0.76
Spring	74.3	49.4	61.8	460	213	3.35
Annual	75.3	51.0	63.2	2447	1963	11.23

May

DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	51	65	3	3	0.02
2	79	52	65	2	3	0.02
3	79	52	65	2	3	0.02
4	79	52	66	2	3	0.02
5	80	52	66	2	4	0.02
6	80	53	66	2	4	0.02
7	80	53	67	2	4	0.02
8	80	53	67	2	4	0.02
9	81	53	67	2	4	0.01
10	81	54	67	2	4	0.01
11	81	54	68	1	5	0.01
12	82	54	68	1	5	0.01
13	82	54	68	1	5	0.01
14	82	55	68	1	5	0.01
15	82	55	69	1	5	0.01
16	83	55	69	1	5	0.01
17	83	55	69	1	6	0.01
18	83	55	69	1	6	0.01
19	84	56	70	1	6	0.01
20	84	56	70	1	6	0.01
21	84	56	70	1	6	0.01
22	84	56	70	1	7	0.01
23	85	56	71	1	7	0.01
24	85	57	71	1	7	0.01
25	85	57	71	1	7	0.01
26	85	57	71	1	7	0.01
27	86	57	72	0	7	0.01
28	86	58	72	0	8	0.01
29	86	58	72	0	8	0.01
30	87	58	72	0	8	0.01
31	87	58	72	0	8	0.01
MNTH:	82.7	54.9	68.8	37	170	0.39



Climatography of the United States NO. 84, 1971-2000

Daily Normals of

Temperature, Precipitation, and Heating and Cooling Degree Days

(includes monthly tables for precipitation probability and quintiles)

Station Name, State:	FRESNO YOSEMITE INTL AP, CA	Station Number:	043257

Latitude: 36°47' Longitude: -119°42' Elevation: 338ft Climate Division: 05

June

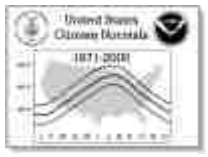
DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	58	73	**	9	0.01
2	87	59	73	**	9	0.01
3	88	59	73	**	9	0.01
4	88	59	73	**	9	0.01
5	88	59	74	0	9	0.01
6	88	59	74	0	10	0.01
7	89	59	74	0	10	0.01
8	89	60	74	0	10	0.01
9	89	60	75	0	10	0.01
10	89	60	75	0	10	0.01
11	90	60	75	0	11	0.01
12	90	60	75	0	11	0.01
13	90	61	76	0	11	0.01
14	91	61	76	0	11	0.01
15	91	61	76	0	12	0.01
16	91	61	76	0	12	0.01
17	91	61	76	0	12	0.01
18	92	62	77	0	12	0.01
19	92	62	77	0	12	0.01
20	92	62	77	0	13	0.01
21	92	62	77	0	13	0.01
22	93	63	78	0	13	0.01
23	93	63	78	0	13	0.01
24	93	63	78	0	14	0.00
25	93	63	78	0	14	0.00
26	94	63	79	0	14	0.00
27	94	64	79	0	14	0.00
28	94	64	79	0	14	0.00
29	94	64	79	0	15	0.00
30	95	64	79	0	15	0.00
MNTH:	90.9	61.2	76.1	4	351	0.23

July

DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	95	64	80	0	15	0.01
2	95	65	80	0	15	0.00
3	95	65	80	0	16	0.00
4	96	65	80	0	16	0.00
5	96	65	80	0	16	0.00
6	96	65	80	0	16	0.00
7	96	65	81	0	16	0.00
8	96	66	81	0	16	0.00
9	96	66	81	0	17	0.00
10	97	66	81	0	17	0.00
11	97	66	81	0	17	0.00
12	97	66	81	0	17	0.00
13	97	66	81	0	17	0.00
14	97	66	82	0	17	0.00
15	97	66	82	0	17	0.00
16	97	66	82	0	17	0.00
17	97	66	82	0	17	0.00
18	97	67	82	0	17	0.00
19	97	67	82	0	17	0.00
20	97	67	82	0	18	0.00
21	97	67	82	0	18	0.00
22	97	67	82	0	18	0.00
23	97	67	82	0	18	0.00
24	97	67	82	0	18	0.00
25	97	67	82	0	18	0.00
26	97	67	82	0	18	0.00
27	97	67	82	0	17	0.00
28	97	67	82	0	17	0.00
29	97	66	82	0	17	0.00
30	97	66	82	0	17	0.00
31	97	66	82	0	17	0.00
MNTH:	96.6	66.1	81.4	0	524	0.01
Summer	94.1	64.1	79.1	4	1353	0.25
Annual	75.3	51.0	63.2	2447	1963	11.23

August

DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	97	66	82	0	17	0.00
2	97	66	82	0	17	0.00
3	97	66	81	0	17	0.00
4	96	66	81	0	17	0.00
5	96	66	81	0	17	0.00
6	96	66	81	0	17	0.00
7	96	66	81	0	17	0.00
8	96	66	81	0	16	0.00
9	96	66	81	0	16	0.00
10	96	66	81	0	16	0.00
11	96	65	81	0	16	0.00
12	95	65	80	0	16	0.00
13	95	65	80	0	16	0.00
14	95	65	80	0	16	0.00
15	95	65	80	0	16	0.00
16	95	65	80	0	15	0.00
17	95	65	80	0	15	0.00
18	95	65	80	0	15	0.00
19	94	65	80	0	15	0.00
20	94	65	79	0	15	0.00
21	94	64	79	0	15	0.00
22	94	64	79	0	15	0.00
23	94	64	79	0	15	0.00
24	94	64	79	0	14	0.00
25	94	64	79	0	14	0.00
26	93	64	79	0	14	0.00
27	93	64	79	0	14	0.00
28	93	64	78	0	14	0.00
29	93	64	78	0	14	0.00
30	93	63	78	0	14	0.00
31	92	63	78	0	13	0.01
MNTH:	94.8	64.9	79.9	0	478	0.01



Climatography of the United States NO. 84, 1971-2000

Daily Normals of

Temperature, Precipitation, and Heating and Cooling Degree Days

(includes monthly tables for precipitation probability and quintiles)

Station Name, State:	FRESNO YOSEMITE INTL AP, CA	Station Number:	043257

Latitude: 36°47' Longitude: -119°42' Elevation: 338ft Climate Division: 05

September

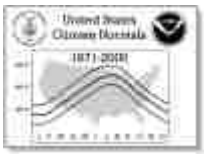
DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	92	63	78	0	13	0.00
2	92	63	78	0	13	0.00
3	92	63	77	0	13	0.00
4	92	63	77	0	13	0.00
5	91	63	77	0	13	0.01
6	91	62	77	0	12	0.01
7	91	62	77	0	12	0.01
8	91	62	76	0	12	0.01
9	91	62	76	0	12	0.01
10	90	62	76	0	12	0.01
11	90	62	76	0	11	0.01
12	90	61	76	0	11	0.01
13	90	61	75	0	11	0.01
14	89	61	75	0	11	0.01
15	89	61	75	0	11	0.01
16	89	60	75	0	10	0.01
17	89	60	74	0	10	0.01
18	88	60	74	0	10	0.01
19	88	60	74	0	10	0.01
20	88	60	74	0	9	0.01
21	87	59	73	0	9	0.01
22	87	59	73	0	9	0.01
23	87	59	73	0	9	0.01
24	87	59	73	0	8	0.01
25	86	58	72	0	8	0.01
26	86	58	72	0	8	0.01
27	86	58	72	0	7	0.01
28	85	57	71	**	7	0.01
29	85	57	71	**	7	0.01
30	85	57	71	**	6	0.01
MNTH:	88.8	60.4	74.6	3	307	0.26

October

DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	57	70	0	6	0.01
2	84	56	70	0	6	0.01
3	84	56	70	0	6	0.01
4	83	56	70	0	5	0.01
5	83	55	69	0	5	0.02
6	83	55	69	0	5	0.02
7	82	55	68	1	4	0.02
8	82	54	68	1	4	0.02
9	81	54	68	1	4	0.02
10	81	54	67	1	4	0.02
11	81	54	67	1	4	0.02
12	80	53	67	1	3	0.02
13	80	53	66	1	3	0.02
14	79	53	66	1	3	0.02
15	79	52	66	2	3	0.02
16	78	52	65	2	3	0.02
17	78	52	65	2	2	0.02
18	77	51	64	2	2	0.02
19	77	51	64	3	2	0.02
20	77	51	64	3	2	0.02
21	76	50	63	3	2	0.02
22	76	50	63	3	2	0.02
23	75	50	62	4	1	0.02
24	75	49	62	4	1	0.02
25	74	49	62	4	1	0.03
26	73	49	61	5	1	0.03
27	73	48	61	5	1	0.03
28	72	48	60	5	1	0.03
29	72	48	60	6	1	0.03
30	71	47	59	6	1	0.03
31	71	47	59	6	1	0.03
MNTH:	78.1	51.9	65.0	73	89	0.65
Autumn	76.6	51.5	64.1	430	397	2.01
Annual	75.3	51.0	63.2	2447	1963	11.23

November

DATE	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	47	58	7	1	0.03
2	70	46	58	7	0	0.03
3	69	46	57	7	0	0.03
4	68	46	57	8	0	0.03
5	68	45	57	8	0	0.03
6	67	45	56	9	0	0.03
7	67	45	56	9	0	0.03
8	66	44	55	9	0	0.03
9	66	44	55	10	0	0.03
10	65	44	55	10	0	0.03
11	65	43	54	10	0	0.04
12	64	43	54	11	0	0.04
13	64	43	53	11	0	0.04
14	63	43	53	11	0	0.04
15	63	42	53	12	0	0.04
16	63	42	52	12	0	0.04
17	62	42	52	12	0	0.04
18	62	41	52	13	0	0.04
19	61	41	51	13	0	0.04
20	61	41	51	13	0	0.04
21	60	41	51	14	0	0.04
22	60	40	50	14	0	0.04
23	60	40	50	14	0	0.04
24	59	40	50	15	0	0.04
25	59	40	49	15	0	0.04
26	58	39	49	15	0	0.04
27	58	39	49	16	0	0.04
28	58	39	48	16	0	0.04
29	57	39	48	16	0	0.04
30	57	39	48	17	0	0.04
MNTH:	63.0	42.3	52.7	354	1	1.10



Climatography of the United States NO. 84, 1971-2000

Precipitation Probability and Quintiles

Station Name, State:	FRESNO YOSEMITE INTL AP, CA	Station Number:	043257

Latitude: 36°47' Longitude: -119°42' Elevation: 338ft Climate Division: 05

Probability that the monthly precipitation will be equal to or less than the indicated amount

Monthly Precipitation (inches)

Probability	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0.005	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.40
0.010	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.87
0.050	0.15	0.16	0.10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	5.39
0.100	0.29	0.30	0.28	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.18	6.36
0.200	0.56	0.58	0.61	0.11	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.38	7.69
0.300	0.86	0.87	0.93	0.21	0.00	0.00	0.00	0.00	0.00	0.08	0.27	0.58	8.76
0.400	1.19	1.19	1.28	0.33	0.02	0.00	0.00	0.00	0.00	0.18	0.45	0.79	9.74
0.500	1.57	1.57	1.67	0.47	0.09	0.00	0.00	0.00	0.00	0.32	0.66	1.02	10.73
0.600	2.03	2.01	2.13	0.66	0.20	0.04	0.00	0.00	0.14	0.50	0.94	1.30	11.79
0.700	2.62	2.58	2.71	0.90	0.38	0.15	0.00	0.00	0.29	0.75	1.30	1.65	12.99
0.800	3.44	3.36	3.49	1.26	0.65	0.35	0.00	0.00	0.49	1.11	1.83	2.13	14.50
0.900	4.81	4.67	4.81	1.88	1.18	0.76	0.03	0.04	0.83	1.76	2.75	2.92	16.77
0.950	6.18	5.96	6.09	2.51	1.74	1.22	0.08	0.09	1.16	2.44	3.68	3.70	18.81
0.990	9.31	8.92	9.01	4.00	3.10	2.35	0.23	0.23	1.91	4.05	5.89	5.46	23.05
0.995	10.65	10.19	10.25	4.65	3.70	2.86	0.30	0.28	2.23	4.75	6.84	6.20	24.74

Precipitation Quintiles (inches)

Level	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0<	0.04	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.04	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.56	0.58	0.61	0.11	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.38
2	0.57	0.59	0.62	0.12	0.00	0.00	0.00	0.00	0.00	0.02	0.14	0.39
	1.19	1.19	1.28	0.33	0.02	0.00	0.00	0.00	0.00	0.18	0.45	0.79
3	1.20	1.20	1.29	0.34	0.03	0.00	0.00	0.00	0.00	0.19	0.46	0.80
	2.03	2.01	2.13	0.66	0.20	0.04	0.00	0.00	0.14	0.50	0.94	1.30
4	2.04	2.02	2.14	0.67	0.21	0.05	0.00	0.00	0.15	0.51	0.95	1.31
	3.44	3.36	3.49	1.26	0.65	0.35	0.00	0.00	0.49	1.11	1.83	2.13
5	3.45	3.37	3.50	1.27	0.66	0.36	0.00	0.00	0.50	1.12	1.84	2.14
	5.42	6.12	7.24	2.85	1.65	1.93	0.22	0.21	1.19	2.45	3.50	4.27
6>	5.42	6.12	7.24	2.85	1.65	1.93	0.22	0.21	1.19	2.45	3.50	4.27

(These values were determined from the incomplete Gamma Distribution)

Abbreviations:
AVG = Average Temperature (degrees Fahrenheit)
CDD = Cooling Degree Days (base 65)
HDD = Heating Degree Days (base 65)
MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
MNTH = Monthly Means and Totals
PRCP = Precipitation Amount (inches and hundredths)

Notes:

- The daily values presented in these tables are not simple means of observed values. They are interpolated from the much less variable monthly normals by use of the natural spline function. Daily precipitation normals were also computed using the natural spline function and do not exhibit the typical daily random patterns. However, they may be used to compute precipitation over time intervals
- The seasonal values that are provided with each page are calculated from the daily values for each month in the season. For example the winter maximum temperature is an average of the December, January, and February daily maximum temperatures.
- Daily Leap Year values: In leap years, use the February 28th values for the 29th and adjust the degree day and precipitation monthly totals accordingly.
- (n/a) occurs to fill values for stations that do not have data.
- (**) occurs as a degree day value for some locations. It's used to represent a value of less than one degree day, but more than zero degree days.
- (**) If this symbol appears in the Precipitation Probabilities tables statistics not computed because less than six years out of thirty had measurable precipitation.
- Complete Documentation and other normals product information is available by clicking on the link.

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Appendix E: Building Materials in use by the Clovis Unified School District

Primary Construction Code by Site for CUSD Sites
Construction Class Description by Site for CUSD Sites
Exterior Wall Finish Description for CUSD

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Count of Count	Sit eN																												
PrimaryConstClassCode	ALTA SIERRA INTERMEDIATE SCHOOL	BUCHANAN HIGH SCHOOL	CEDARWOOD ELEMENTARY SCHOOL	CENTURY ELEMENTARY SCHOOL	CLARK INTERMEDIATE SCHOOL	CLOVIS ACADEMY OF GYMNASTIC	CLOVIS ADULT EDUCATION	CLOVIS EAST AGRICULTURE CENTER	CLOVIS EAST HIGH SCHOOL	CLOVIS ELEMENTARY SCHOOL	CLOVIS HIGH SCHOOL	CLOVIS MEDICAL THERAPY UNIT	CLOVIS WEST HIGH SCHOOL	COLE ELEMENTARY SCHOOL	COPPER HILLS ELEMENTARY SCHOOL	COX ELEMENTARY SCHOOL	DISTRICT OFFICE	DISTRICT SERVICE BUILDING	DRY CREEK ELEMENTARY SCHOOL	EXCEL HIGH SCHOOL	FANCHER CREEK ELEMENTARY SCHOOL	FORT WASHINGTON ELEM. SCHOOL	FREEDOM ELEMENTARY SCHOOL	FRIANT ELEMENTARY SCHOOL	FUGMAN ELEMENTARY SCHOOL	GARFIELD ELEMENTARY SCHOOL	GATEWAY CONTINUATION HIGH SCHOOL	GETTYSBURG ELEMENTARY SCHOOL
1	16	12	7	24	21		48	2	9	11	11	1	25	16	11	12			19	4	28	13	4	3	5	27	14	19
2	5	8			1			2	6		16		11		4		2					2						
3		1						3			4		1															
4	4	18	2		4	1		1	9		3		8					1	1		1		7					
6	1	4			2				1		6		4															
x													1															
(blank)																												
Grand Total	26	43	9	24	28	1	48	8	25	11	40	1	50	16	15	12	2	1	20	4	29	15	11	3	5	27	14	19

Count of Count																									
PrimaryConstClassCode	JEFFERSON ELEMENTARY SCHOOL	KASTNER INTERMEDIATE SCHOOL	LIBERTY ELEMENTARY SCHOOL	LINCOLN ELEMENTARY SCHOOL	MAINTENANCE/TRANSPORTATION	MAPLE CREEK ELEMENTARY SCHOOL	MIRAMONTE ELEMENTARY SCHOOL	MOUNTAIN VIEW ELEMENTARY SCHOOL	NELSON ELEMENTARY SCHOOL	OPERATIONS/GROUNDS	PINEDALE ELEMENTARY SCHOOL	PROFESSIONAL DEVELOPMENT/WAREH.	REAGAN PRIMARY SCHOOL	RED BANK ELEMENTARY SCHOOL	REYBURN INTERMEDIATE SCHOOL	RIVERVIEW ELEMENTARY SCHOOL	SECURITY/ATTENDANCE	SIERRA VISTA ELEMENTARY SCHOOL	TARPEY ELEMENTARY SCHOOL	TEMPERANCE-KUTNER ELEMENTARY SCH	VALLEY OAK ELEMENTARY SCHOOL	WELDON ELEMENTARY SCHOOL	WOODS ELEMENTARY SCHOOL	(blank)	Grand Total
1	17	12	11	18	1	24	21	16	21		10		28	11	10	7		16	26	26	16	23	7		683
2		19	3					3		1					5		1	1							90
3																									9
4	1	3		2	1			1				2		2	6										78
6																									18
x																									1
(blank)																									
Grand Total	18	34	14	20	2	24	21	20	21	1	10	2	28	13	21	7	1	17	26	26	16	23	7		879

ConstClassDesc	ALTA SIERRA INTERMEDIATE SCHOOL	BUCHANAN HIGH SCHOOL	CEDARWOOD ELEMENTARY SCHOOL	CENTURY ELEMENTARY SCHOOL	CLARK INTERMEDIATE SCHOOL	CLOVIS ACADEMY OF GYMNASTIC	CLOVIS ADULT EDUCATION	CLOVIS EAST AGRICULTURE CENTER	CLOVIS EAST HIGH SCHOOL	CLOVIS ELEMENTARY SCHOOL	CLOVIS HIGH SCHOOL	CLOVIS MEDICAL THERAPY UNIT	CLOVIS WEST HIGH SCHOOL	COLE ELEMENTARY SCHOOL	COPPER HILLS ELEMENTARY SCHOOL	COX ELEMENTARY SCHOOL	DISTRICT OFFICE	DISTRICT SERVICE BUILDING	DRY CREEK ELEMENTARY SCHOOL	EXCEL HIGH SCHOOL	FANCHER CREEK ELEMENTARY SCHOOL	FORT WASHINGTON ELEM. SCHOOL	FREEDOM ELEMENTARY SCHOOL	FRIANT ELEMENTARY SCHOOL	FUGMAN ELEMENTARY SCHOOL	GARFIELD ELEMENTARY SCHOOL	GATEWAY CONTINUATION HIGH SCHOOL
Fire Resistive	1	4			1				1		4		4														
FIRE RESISTIVE-100%											2																
FIRE RESISTIVE-95% MASONRY NON-COMBUSTIBLE-15% FRAME-5%					1																						
Frame/Combustible	6			16	8		48		1	2	10		21	8	7	6			12	4	17	8	2	1		14	4
FRAME-100%	10	12	7	1	11			1	7	9	1	1	2	8	4	6			7		11	5	2	2	5	13	10
FRAME-50% JOISTED MASONRY-50%								1					1														
FRAME-60% JOISTED MASONRY-40%																											
COMBUSTIBLE-40%									1																		
FRAME-70% JOISTED MASONRY-30%													1														
FRAME-80% JOISTED MASONRY-20%					1																						
COMBUSTIBLE-20%				7	1																						
Joisted Masonry	1	1																									
JOISTED MASONRY-100%	3	7			1			2	5		14		10		4		2					2					
JOISTED MASONRY-60% FRAME-40%									1		2																
JOISTED MASONRY-80% FRAME-20%																											
JOISTED MASONRY-80% MASONRY NON-COMBUSTIBLE-20%	1																										
COMBUSTIBLE-20%																											
JOISTED MASONRY-90% FRAME-10%													1														
Masonry Noncombustible		1																									
MASONRY NON-COMBUSTIBLE-100%	4	16	2		3	1		1	9		2		6					1	1		1		7				
MASONRY NON-COMBUSTIBLE-60% FIRE RESISTIVE-40%					1																						
MASONRY NON-COMBUSTIBLE-70% FIRE RESISTIVE-30%		1											2														
FRAME-25%											1																
NON-COMBUSTIBLE-100%		1						3			4		1														
(blank)													1														
Grand Total	**26**	**43**	**9**	**24**	**28**	**1**	**48**	**8**	**25**	**11**	**40**	**1**	**50**	**16**	**15**	**12**	**2**	**1**	**20**	**4**	**29**	**15**	**11**	**3**	**5**	**27**	**14**

ConstClassDesc	GETTYSBURG ELEMENTARY SCHOOL	JEFFERSON ELEMENTARY SCHOOL	KASTNER INTERMEDIATE SCHOOL	LIBERTY ELEMENTARY SCHOOL	LINCOLN ELEMENTARY SCHOOL	MAINTENANCE/TRANSPORTATION	MAPLE CREEK ELEMENTARY SCHOOL	MIRAMONTE ELEMENTARY SCHOOL	MOUNTAIN VIEW ELEMENTARY SCHOOL	NELSON ELEMENTARY SCHOOL	OPERATIONS/GROUNDS	PINEDALE ELEMENTARY SCHOOL	PROFESSIONAL DEVELOPMENT/WAREH.	REAGAN PRIMARY SCHOOL	RED BANK ELEMENTARY SCHOOL	REYBURN INTERMEDIATE SCHOOL	RIVERVIEW ELEMENTARY SCHOOL	SECURITY/ATTENDANCE	SIERRA VISTA ELEMENTARY SCHOOL	TARPEY ELEMENTARY SCHOOL	TEMPERANCE-KUTNER ELEMENTARY SCH	VALLEY OAK ELEMENTARY SCHOOL	WELDON ELEMENTARY SCHOOL	WOODS ELEMENTARY SCHOOL	(blank)	Grand Total
Fire Resistive																										15
FIRE RESISTIVE-100%																										2
FIRE RESISTIVE-95% MASONRY NON-COMBUSTIBLE-15% FRAME-5%																										1
Frame/Combustible	9	8	11	4	9	1	14	12	10	12		6		28	5	1	2		9	16	15	6	14	1		388
FRAME-100%	10	9	1	7	9		10	9	6	9		4			6	7	5		5	10	11	10	9	6		278
FRAME-50% JOISTED MASONRY-50%																										2
FRAME-60% JOISTED MASONRY-40%																2			1							3
COMBUSTIBLE-40%																										1
FRAME-70% JOISTED MASONRY-30%																			1							2
FRAME-80% JOISTED MASONRY-20%																										1
COMBUSTIBLE-20%																										8
Joisted Masonry																										2
JOISTED MASONRY-100%			19	3					3							4		1	1							81
JOISTED MASONRY-60% FRAME-40%																										3
JOISTED MASONRY-80% FRAME-20%																1										1
JOISTED MASONRY-80% MASONRY NON-COMBUSTIBLE-20%																										1
COMBUSTIBLE-20%											1															1
JOISTED MASONRY-90% FRAME-10%																										1
Masonry Noncombustible																										1
MASONRY NON-COMBUSTIBLE-100%		1	3		2	1			1				2		2	6										72
MASONRY NON-COMBUSTIBLE-60% FIRE RESISTIVE-40%																										1
MASONRY NON-COMBUSTIBLE-70% FIRE RESISTIVE-30%																										3
FRAME-25%																										1
NON-COMBUSTIBLE-100%																										9
(blank)																										1
Grand Total	**19**	**18**	**34**	**14**	**20**	**2**	**24**	**21**	**20**	**21**	**1**	**10**	**2**	**28**	**13**	**21**	**7**	**1**	**17**	**26**	**26**	**16**	**23**	**7**		**879**

Count of Count	
ExtWallFinDesc	**Total**
BRICK ON FRAME	1
BRICK ON FRAME AND CURTAIN WALL, GLASS	6
BRICK ON FRAME AND STUCCO ON FRAME	17
BRICK ON FRAME; CONCRETE BLOCK AND STUCCO ON FRAME	1
BRICK ON FRAME; CURTAIN WALL, GLASS AND STUCCO ON FRAME	3
BRICK ON FRAME; SIDING, WOOD ON FRAME AND STUCCO ON FRAME	1
CONCRETE BLOCK	25
CONCRETE BLOCK AND CONCRETE, POURED-IN-PLACE, 7IN TO 10IN	10
CONCRETE BLOCK AND CURTAIN WALL, GLASS	8
CONCRETE BLOCK AND SIDING, METAL OR OTHER ON GIRTS	7
CONCRETE BLOCK AND SIDING, METAL OR OTHER ON MASONRY	10
CONCRETE BLOCK AND SIDING, WOOD ON MASONRY	3
CONCRETE BLOCK AND STUCCO ON FRAME	53
CONCRETE BLOCK AND STUCCO ON MASONRY	2
CONCRETE BLOCK; CONCRETE, POURED-IN-PLACE, 7IN TO 10IN AND CURTAIN WALL, GLASS	3
CONCRETE BLOCK; CONCRETE, POURED-IN-PLACE, 7IN TO 10IN AND STUCCO ON FRAME	1
CONCRETE BLOCK; CONCRETE, POURED-IN-PLACE, 7IN TO 10IN; SIDING, METAL OR OTHER ON GIRTS AND STUCCO ON FRAME	1
CONCRETE BLOCK; CURTAIN WALL, GLASS AND SIDING, METAL OR OTHER ON MASONRY	2
CONCRETE BLOCK; CURTAIN WALL, GLASS AND SIDING, WOOD ON MASONRY	1
CONCRETE BLOCK; CURTAIN WALL, GLASS AND STUCCO ON FRAME	13
CONCRETE BLOCK; CURTAIN WALL, GLASS AND STUCCO ON MASONRY	1
CONCRETE BLOCK; CURTAIN WALL, GLASS; SIDING, METAL OR OTHER ON MASONRY AND STUCCO ON FRAME	1
CONCRETE BLOCK; CURTAIN WALL, GLASS; SIDING, WOOD ON FRAME AND STUCCO ON FRAME	1
CONCRETE BLOCK; SIDING, METAL OR OTHER ON GIRTS AND STUCCO ON FRAME	4
CONCRETE BLOCK; SIDING, METAL OR OTHER ON MASONRY AND SIDING, WOOD ON MASONRY	1
CONCRETE BLOCK; SIDING, METAL OR OTHER ON MASONRY AND STUCCO ON FRAME	2
CONCRETE BLOCK; SIDING, WOOD ON FRAME AND STUCCO ON FRAME	1
CONCRETE, POURED-IN-PLACE, 7IN TO 10IN	3
CONCRETE, POURED-IN-PLACE, 7IN TO 10IN AND SIDING, METAL OR OTHER ON GIRTS	1
CONCRETE, POURED-IN-PLACE, 7IN TO 10IN; CURTAIN WALL, GLASS AND SIDING, METAL OR OTHER ON MASONRY	1
CONCRETE, POURED-IN-PLACE, 7IN TO 10IN; CURTAIN WALL, GLASS; SIDING, WOOD ON FRAME AND STUCCO ON FRAME	1
CONCRETE, PRECAST PANELS	1
CONCRETE, PRECAST PANELS AND CURTAIN WALL, GLASS	1
CONCRETE, PRECAST PANELS AND SIDING, METAL OR OTHER ON GIRTS	4
CONCRETE, PRECAST PANELS AND STUCCO ON FRAME	6
CONCRETE, PRECAST PANELS; CURTAIN WALL, GLASS AND STUCCO ON FRAME	2
CONCRETE/METAL	1

Count of Count	
ExtWallFinDesc	**Total**
CURTAIN WALL, GLASS	1
CURTAIN WALL, GLASS AND SIDING, METAL OR OTHER ON GIRTS	1
CURTAIN WALL, GLASS AND STUCCO ON FRAME	52
CURTAIN WALL, GLASS AND STUCCO ON MASONRY	1
CURTAIN WALL, GLASS; SIDING, METAL OR OTHER ON FRAME AND STUCCO ON FRAME	4
CURTAIN WALL, GLASS; SIDING, METAL OR OTHER ON GIRTS AND STUCCO ON FRAME	2
METAL/GLASS	1
NONE	21
POURED CONCRETE	15
SIDING, METAL OR OTHER ON FRAME AND STUCCO ON FRAME	4
SIDING, METAL OR OTHER ON GIRTS	4
SIDING, METAL OR OTHER ON GIRTS AND STUCCO ON FRAME	3
SIDING, METAL OR OTHER ON GIRTS AND STUCCO ON MASONRY	1
SIDING, WOOD ON FRAME	10
SIDING, WOOD ON FRAME AND STUCCO ON FRAME	7
STUCCO	1
STUCCO ON FRAME	184
WOOD SIDING	366
(blank)	1
Grand Total	879

Appendix F: 2007 Freeze Event Damage for CUSD Facilities

Freeze 2007 Damage
Flood Damage Inventory - Maple Creek 1-16-07

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Clovis Unified School District **Plant Operations**

Cost Summary by Job Type
FREEZE DAMAGE
For All Repair Centers - All Sites
From 12/15/2006 to 05/22/2007

Site / Job Type	Hours	Labor	Parts	Other
ALTA SIERRA INTERMEDIATE				
HVAC	10	$ 270.00	$ -	$ 328.07
PLUMBING	25	$ 597.00	$ -	$ 469.18
BHS POOL				
PLUMBING	2	$ 54.00	$ -	$ 2,705.41
BHS SOFTBALL COMPLEX				
PLUMBING	6	$ 165.00	$ -	$ 187.72
BUCHANAN HIGH SCHOOL				
HVAC	2	$ 38.00	$ -	$ -
PLUMBING	24	$ 591.94	$ -	$ 2,692.72
ROOFS	12	$ 324.00	$ -	$ -
CEDARWOOD ELEMENTARY				
PLUMBING	20	$ 447.24	$ -	$ 71.75
CEHS AG FARM				
PLUMBING	11	$ 297.00	$ -	$ 137.78
CEHS SNACK BAR				
PLUMBING	4	$ 108.00	$ -	$ 142.67
CENTURY ELEMENTARY				
PLUMBING	8	$ 200.54	$ -	$ 33.71
CLARK INTERMEDIATE				
HVAC	2	$ 54.00	$ -	$ 248.14
PLUMBING	13	$ 261.50	$ -	$ 364.38
CLOVIS EAST HIGH SCHOOL				
PLUMBING	74	$ 1,746.00	$ -	$ 1,820.83
CLOVIS ELEMENTARY				
PLUMBING	6	$ 164.00	$ -	$ 360.75
CLOVIS HIGH POOL				
PLUMBING	0	$ -	$ -	$ -
CLOVIS HIGH SCHOOL				
GROUNDS WORK	69	$ 1,469.00	$ -	$ 487.32
PLUMBING	21	$ 574.00	$ -	$ 446.27
CLOVIS WEST BASEBALL STADIUM				
PLUMBING	5	$ 137.50	$ -	$ 75.64

Site	Hours	Labor	Parts	Other
Job Type				
CLOVIS WEST HIGH SCHOOL				
BUILDING MAINTENANCE	1	$ 27.00	$ -	$ -
PLUMBING	59	$ 1,399.50	$ -	$ 1,200.59
ROOFS	6	$ 162.00	$ -	$ -
COLE ELEMENTARY				
PLUMBING	12	$ 326.00	$ -	$ 570.15
COMMUNITY DAY SCHOOL				
PLUMBING	9	$ 243.00	$ -	$ 65.67
COPPER HILLS ELEMENTARY				
PLUMBING	6	$ 115.62	$ -	$ 128.44
COX ELEMENTARY				
HVAC	19	$ 518.00	$ -	$ 856.85
PLUMBING	20	$ 482.16	$ -	$ 381.41
DISTRICT OFFICE WEST				
HVAC	1	$ 27.00	$ -	$ -
DISTRICT SERVICE FACILITY				
PLUMBING	6	$ 162.00	$ -	$ 286.66
DISTRICTWIDE				
GROUNDS WORK	0	$ -	$ -	$ -
PLUMBING	0	$ -	$ -	$ 7,111.29
DRY CREEK ELEMENTARY				
HVAC	3	$ 81.00	$ -	$ -
PLUMBING	8	$ 216.00	$ -	$ 34.57
FANCHER CREEK ELEMENTARY				
PLUMBING	3	$ 81.00	$ -	$ -
FREEDOM ELEMENTARY				
PLUMBING	5	$ 136.00	$ -	$ 11.30
FT. WASHINGTON ELEMENTARY				
PLUMBING	7	$ 190.50	$ -	$ 118.72
FUGMAN ELEMENTARY				
PLUMBING	2	$ 38.54	$ -	$ 14.73
GARFIELD ELEMENTARY				
PLUMBING	9	$ 243.00	$ -	$ 157.06
GATEWAY				
AUDIO-VISUAL	9	$ 247.00	$ -	$ -
PLUMBING	50	$ 1,102.00	$ -	$ 85.98
WOODS ELEMENTARY				
PLUMBING	5	$ 137.50	$ -	$ 1,873.45
JEFFERSON ELEMENTARY				
PLUMBING	3	$ 81.00	$ -	$ 740.07

Site	Hours	Labor	Parts	Other
Job Type				
KASTNER INTERMEDIATE				
PLUMBING	55	$ 1,356.29	$ -	$ 864.77
LIBERTY ELEMENTARY				
PLUMBING	3	$ 81.00	$ -	$ 213.95
LINCOLN ELEMENTARY				
PLUMBING	3	$ 82.50	$ -	$ -
MAPLE CREEK ELEMENTARY				
HVAC	13	$ 351.00	$ -	$ 108.06
PLUMBING	24	$ 561.66	$ -	$ 242.43
MIRAMONTE ELEMENTARY				
PLUMBING	2	$ 55.00	$ -	$ -
MOUNTAIN VIEW ELEMENTARY				
HVAC	2	$ 55.00	$ -	$ 31.61
NELSON ELEMENTARY				
PLUMBING	17	$ 366.24	$ -	$ 50.72
PINEDALE ELEMENTARY				
PLUMBING	8	$ 216.00	$ -	$ 33.02
PROFESSIONAL DEVELOPMENT				
PLUMBING	2	$ 54.00	$ -	$ -
REAGAN ELEMENTARY				
PLUMBING	2	$ 38.54	$ -	$ 635.59
RED BANK ELEMENTARY				
PLUMBING	7	$ 190.00	$ -	$ 936.12
ROOFS	7	$ 189.00	$ -	$ 21.97
REYBURN INTERMEDIATE				
HVAC	14	$ 385.00	$ -	$ -
PLUMBING	49	$ 1,273.00	$ -	$ 610.09
RIVERVIEW ELEMENTARY				
PLUMBING	20	$ 540.00	$ -	$ 745.61
SIERRA VISTA ELEMENTARY				
PLUMBING	5	$ 135.00	$ -	$ 15.84
TARPEY ELEMENTARY				
HVAC	4	$ 100.00	$ -	$ -
PLUMBING	6	$ 131.08	$ -	$ -
TEMPERANCE/KUTNER ELEMENTARY				
PLUMBING	74	$ 1,880.00	$ -	$ 252.64

Site	Hours	Labor	Parts	Other
Job Type				
TRANSPORTATION				
PLUMBING	2	$ 54.00	$ -	$ -
VALLEY OAK ELEMENTARY				
PLUMBING	3	$ 81.00	$ -	$ 29.00
WAREHOUSE				
PLUMBING	3	$ 67.50	$ -	$ -
ROOFS	8	$ 216.00	$ -	$ 108.84
WELDON ELEMENTARY				
HVAC	6	$ 165.00	$ -	$ 27.59
PLUMBING	4	$ 108.00	$ -	$ 44.80
ROOFS	3	$ 81.00	$ -	$ -
Totals	**903**	**$ 22,327.35**	**$ -**	**$ 29,181.93**
Total Labor, Parts and Other				**$ 51,509.28**

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JAN 19 2007

Maple Creek Elementary
Flood Damage 1/16/07

Inventory of Damaged Books

$833 est.

Guided reading titles (sets of 6)	Replacement Cost**	Publisher*/Series
Walk, Ride, Run	$28.00	Rigby PM Plus
Billy Can Count	28.00	Rigby PM Plus
Here Come the Shapes	28.00	Rigby PM Plus
Ben's Dad	28.00	Rigby PM
Hot Sunny Days (nonfiction)	28.00	Rigby PM Plus
Baby Panda	28.00	Rigby PM Plus
My Caterpillar Report (nonfiction)	30.00	Rigby Flying Colors
Three Jars Full (nonfiction)	30.00	Rigby Focus
Sorting Leaves (nonfiction)	30.00	Rigby PM Math Readers
Spinning Tops	30.00	Rigby PM Photo Stories
Bella's Ride	30.00	Rigby Flying Colors
Walking in the Winter (nonfiction)	28.00	Rigby PM Platinum
Ella and the Toy Rabbit	30.00	Rigby PM Stars
Birthday Balloons	28.00	Rigby PM Platinum

*All titles are from Harcourt Achieve (Rigby)

** A shipping charge of 9% applies, plus 8% sales tax

404.00
36.36 9%
32.32 est. tax
$ 472.68

Maple Creek Library Titles	Replacement Cost Estimate	Publisher/Series
A Hundred Hugs (big book) by Joy Cowley	$25.00	
Young Abraham Lincoln (big book)	25.00	Troll
What Kind of Dog Am I? (big book)	25.00	TWG

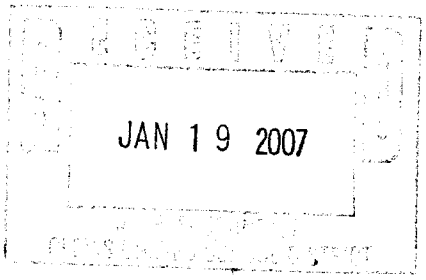
$ 75.00

Curriculum Titles	Replacement Cost Estimate	Publisher/Series
From Apples to Zebras—Big Book of ABC's	45.00	Houghton Mifflin
Chicken Soup with Rice	5.00	Houghton Mifflin
Phonics Library, theme 6, Sunshine & Raindrops	9.00	Houghton Mifflin
Big Book Atlas	35.00	Scott Foresman
Language Songs , Avenues (Big Book)	35.00	Hampton Brown

129.00

Other Titles	Replacement Cost Estimate	Publisher/Series
Chicka Chicka Boom Boom (big book)	21.00	Scholastic
Little Toot (big book)	21.00	Grosset & Dunlap
Rain Talk (big book)	25.00	MacMillan McGraw Hill
Big Book of Songs (big book)	25.00	MacMillan McGraw Hill
Jungle Jim, Jj, "Sing & Read" (big book)	17.00	Frog Street Press
Big Book of Rhymes and Rhythms (big book)	25.00	MacMillan McGraw Hill
Nursery Rhyme Flip Chart	22.00	Scholastic

$ 156.00



copy w/ totals

JAN 19 2007

Maple Creek Elementary
Flood Damage 1/16/07

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Here Come the Shapes	28.00	Rigby PM Plus
Ben's Dad	28.00	Rigby PM
Hot Sunny Days (nonfiction)	28.00	Rigby PM Plus
Baby Panda	28.00	Rigby PM Plus
My Caterpillar Report (nonfiction)	30.00	Rigby Flying Colors
Three Jars Full (nonfiction)	30.00	Rigby Focus
Sorting Leaves (nonfiction)	30.00	Rigby PM Math Readers
Spinning Tops	30.00	Rigby PM Photo Stories
Bella's Ride	30.00	Rigby Flying Colors
Walking in the Winter (nonfiction)	28.00	Rigby PM Platinum
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Young Abraham Lincoln (big book)	25.00	Troll
What Kind of Dog Am I? (big book)	25.00	TWG

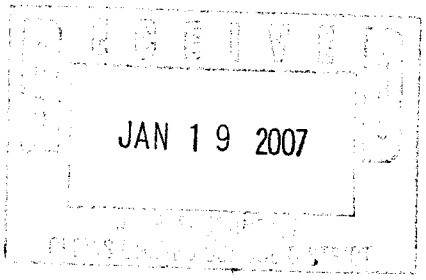
$ 75.00

Curriculum Titles	Replacement Cost Estimate	Publisher/Series
From Apples to Zebras—Big Book of ABC's	45.00	Houghton Mifflin
Chicken Soup with Rice	5.00	Houghton Mifflin
Phonics Library, theme 6, Sunshine & Raindrops	9.00	Houghton Mifflin
Big Book Atlas	35.00	Scott Foresman
Language Songs , Avenues (Big Book)	35.00	Hampton Brown

129.00

Other Titles	Replacement Cost Estimate	Publisher/Series
Chicka Chicka Boom Boom (big book)	21.00	Scholastic
Little Toot (big book)	21.00	Grosset & Dunlap
Rain Talk (big book)	25.00	MacMillan McGraw Hill
Big Book of Songs (big book)	25.00	MacMillan McGraw Hill
Jungle Jim, Jj, "Sing & Read" (big book)	17.00	Frog Street Press
Big Book of Rhymes and Rhythms (big book)	25.00	MacMillan McGraw Hill
Nursery Rhyme Flip Chart	22.00	Scholastic

$ 156.00



Appendix G: Clovis Unified School District –Maps

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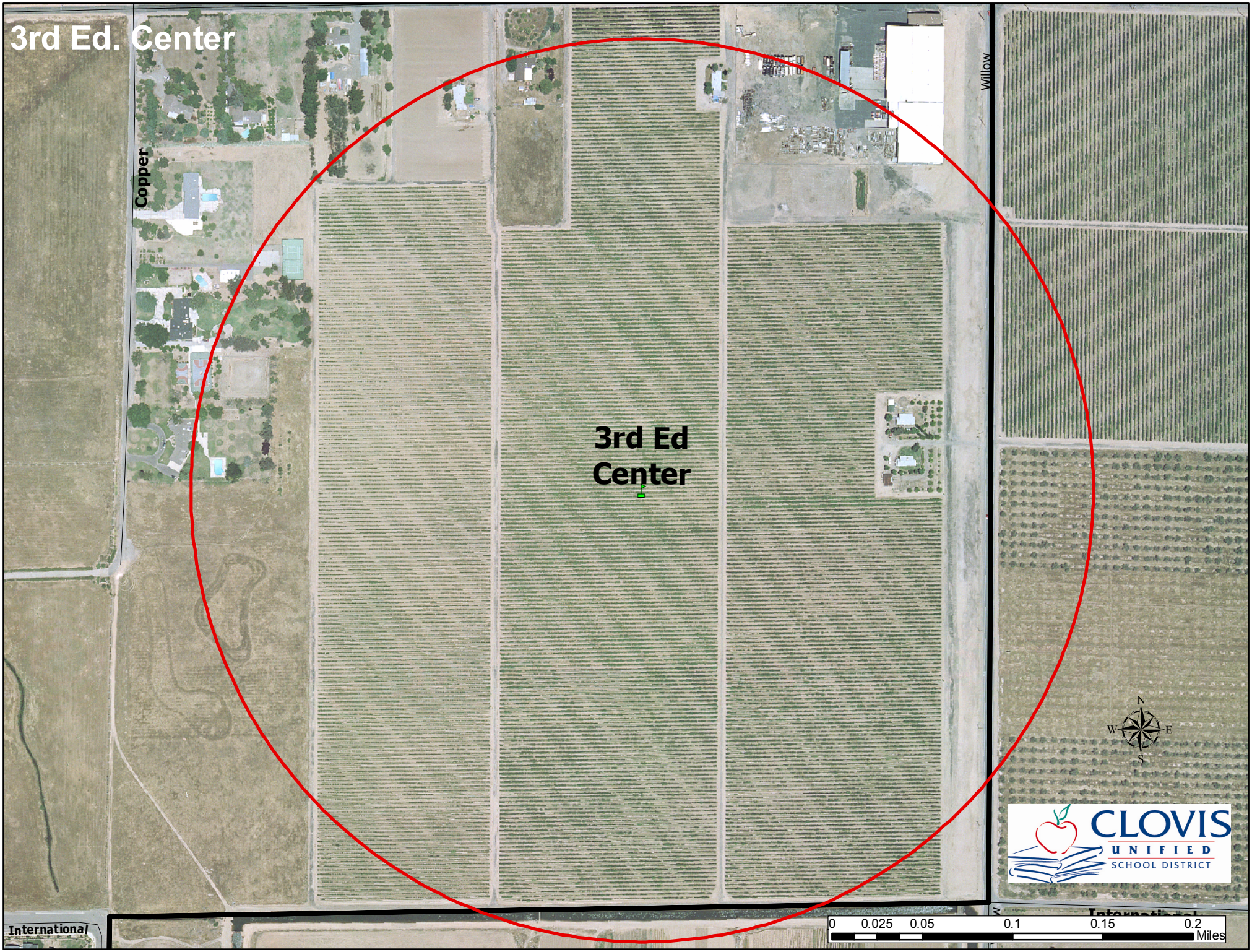
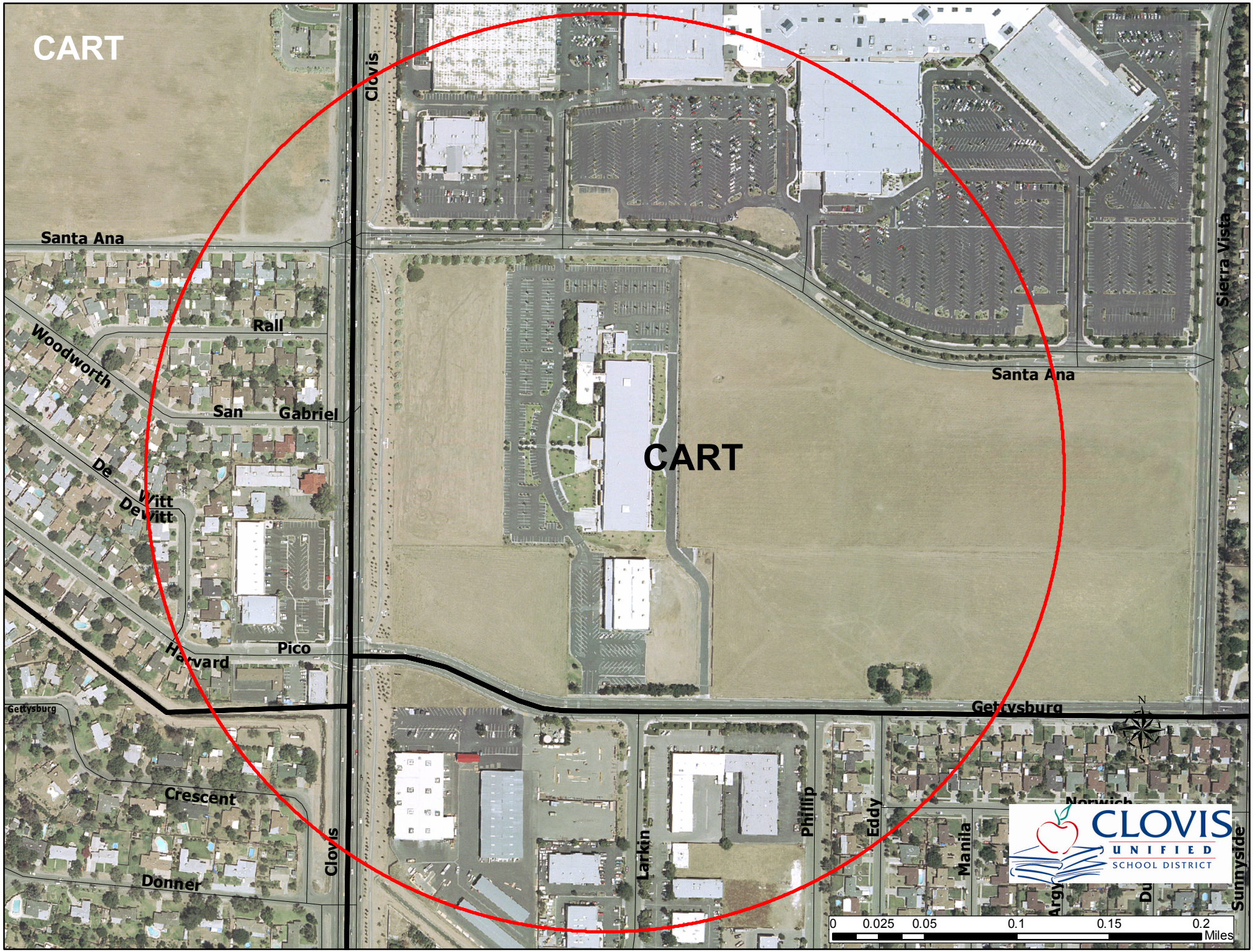
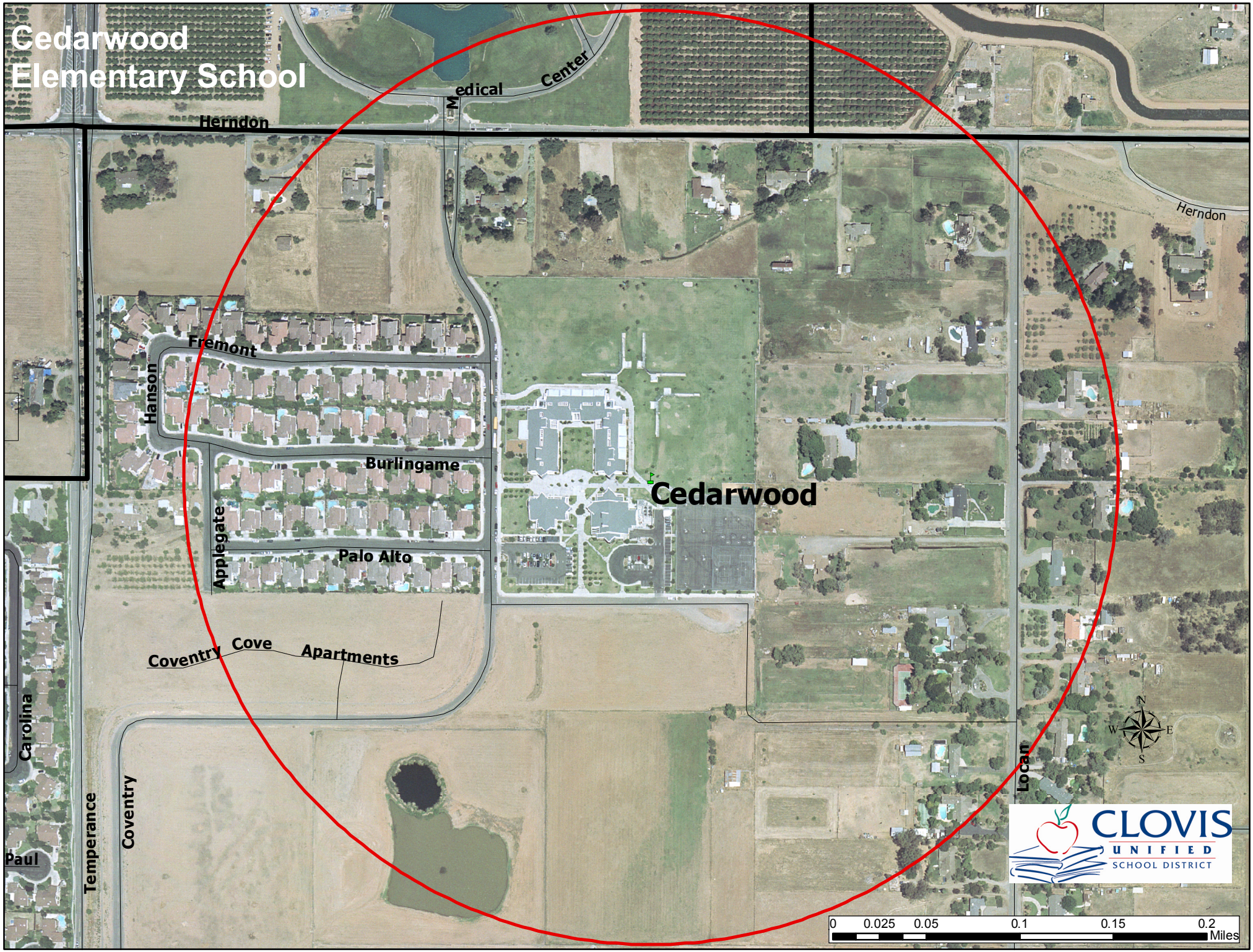

3rd Ed. Center
Copper
Willow
3rd Ed
Center
N
W
E
S
CLOVIS
UNIFIED
SCHOOL DISTRICT
International
0 0.025 0.05 0.1 0.15 0.2
Miles

Alta Sierra Intermediate School
Warwick
Vermont
Bush
Homsy
Villa
Brittany
Siena
Avignon
Riviera
Trenton
Halifax
Teague
Peach
Buchanan High
Alta Sierra Int
Quincy
Terry
Portland
Cindy
Omaha
Enterprise
Karen
Muncie
N
W
E
S
CLOVIS UNIFIED SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles

Buchanan High School
Warwick
Homsy
Vermont
Trenton
Halifax
Villa
Brittany
Bordeaux
Siena
Riviera
Barcelona
Avignon
Minnewawa
Moody
Teague
Alta Sierra Int
Buchanan High
Heritage
Oxford
Harvard
Dartmouth
Richmond
Wawona Ranch
Quincy
Cherry
Omaha
CLOVIS UNIFIED SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2 Miles


CART
Clovis
Santa Ana
Rall
Woodworth
San
Gabriel
De
Witt
Pico
Harvard
Gettysburg
Crescent
Donner
Clovis
Larkin
Phillip
Eddy
Manila
Sierra Vista
Santa Ana
CART
Gettysburg
Sunnyside
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles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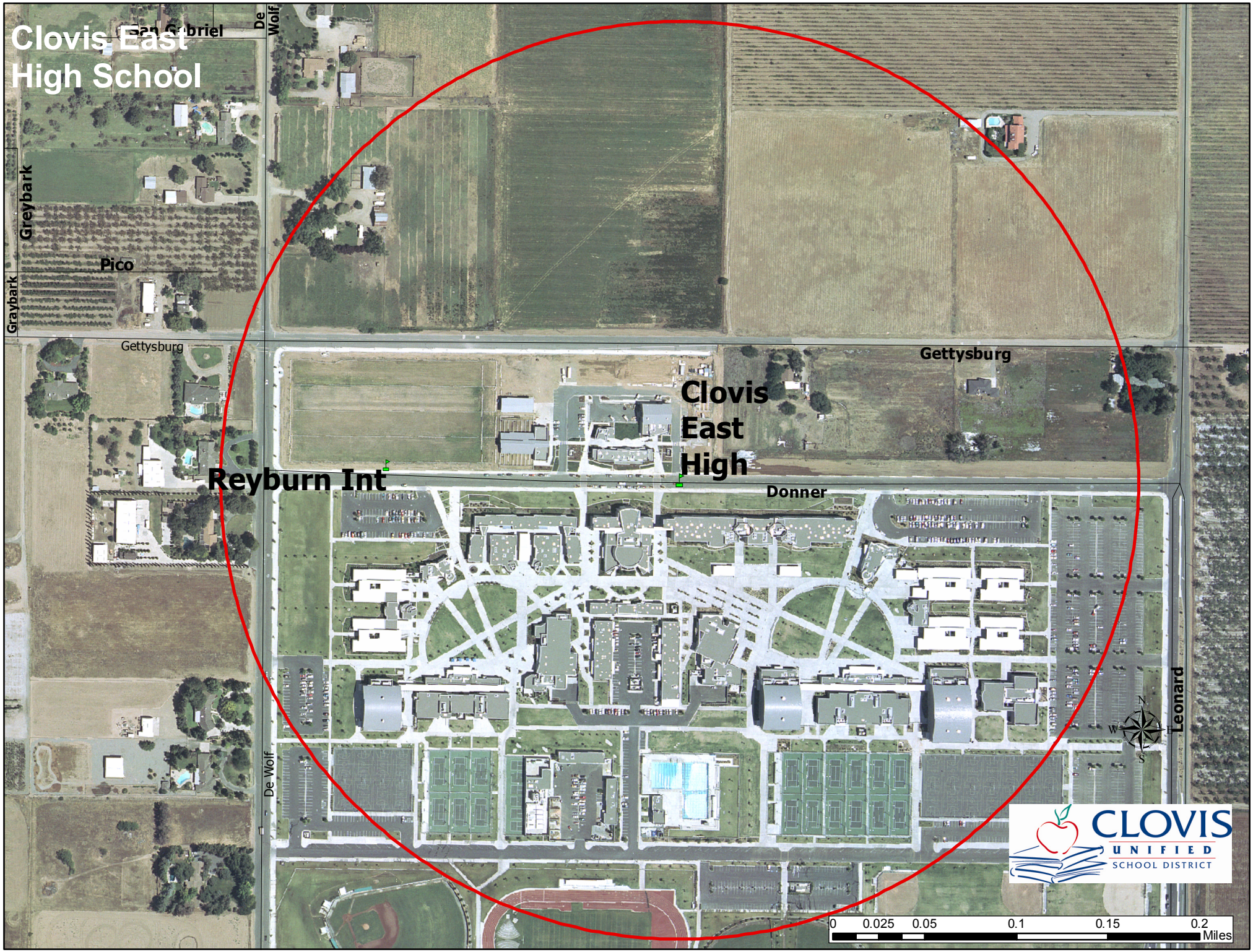
Elementary School
Herndon
Medical Center
Herndon
Fremont
Hanson
Burlingame
Applegate
Palo Alto
Cedarwood
Coventry Cove Apartments
Carolina
Temperance
Coventry
Paul
Locan
N
W
E
S
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles

Century
Elementary School
Century
Claremont
Carey
Purdue
Houston
Renn
Goshen
Fallbrook
Miami
El Paso
Decatur
Cromwell
Stanford
Bedford
Fordham
Bundy
Athens
Sunnyside
Alluvial
Duke
Oak
Russell
Acacia
Claremont
CLOVIS UNIFIED SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles

Clark
Intermediate School
Hughes
Osmun
Baron
Cole
Elm
Tollhouse
4th
Russell
Sunnyside
Old Town
5th
Bullard
Rodeo
Clark Int
7th
Clovis
8th
Pollasky
9th
Brookside
Fairbrook
Brookhaven
Rosebrook
Brookfield
Cole
Russell
Acacia
Browning
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles


Clovis East High School
San Gabriel
De Wolf
Greybark
Pico
Graybark
Gettysburg
Gettysburg
Clovis East High
Reyburn Int
Donner
De Wolf
Leonard
N
W
E
S
CLOVIS UNIFIED SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles

Clovis
Elementary School
Celeste
Amber
Burl
Cypress
Douglas
Filbert
Roberts
Holly
Mckelvy
Browning
Bliss
Laverne
Burgan
Wrenwood
Clovis
High
Clovis
Elementary
Robinwood
Lincoln
Armstrong
Jasmine
Joshua
Barstow
Cougar
Ash
Purvis
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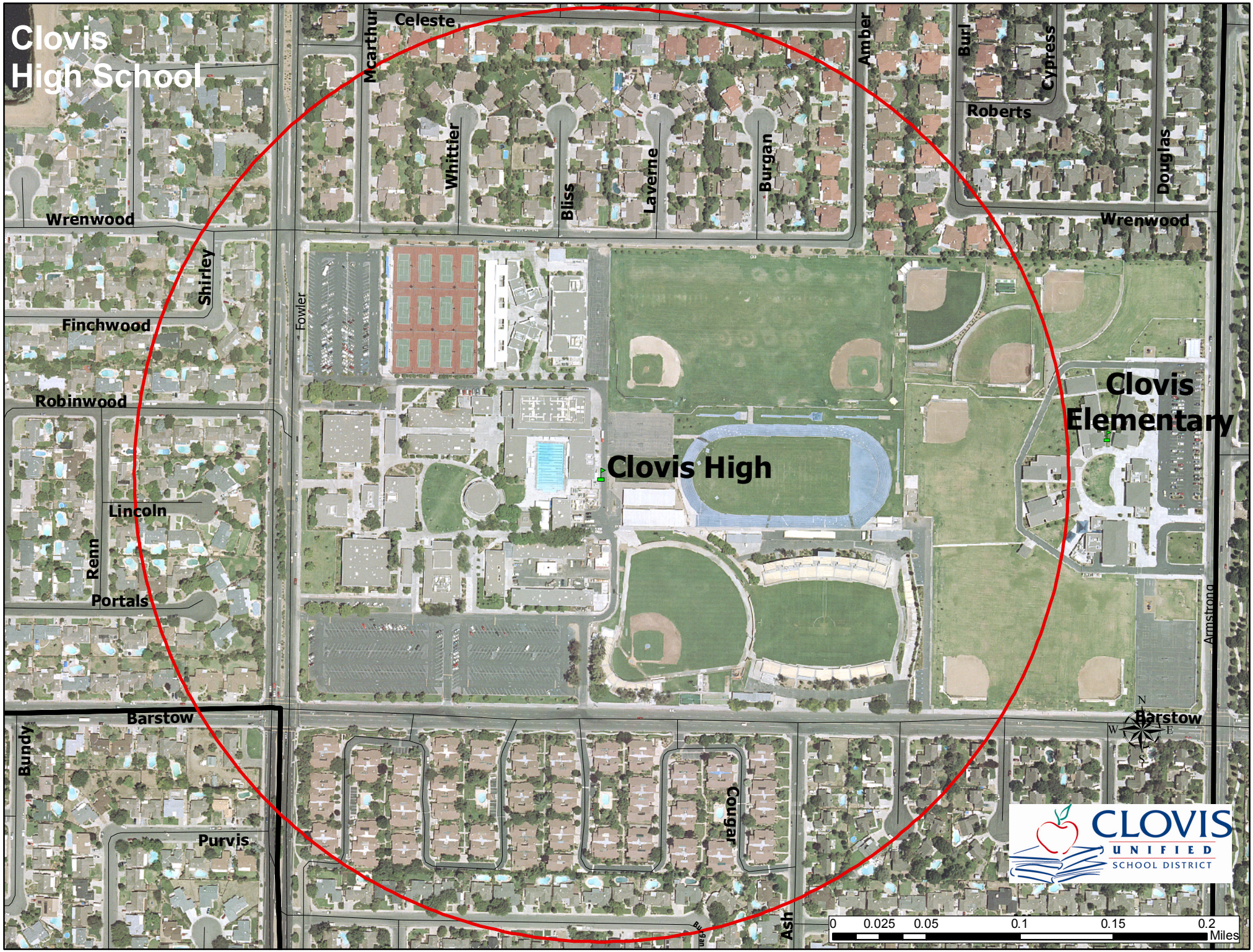
Miles
CLOVIS
UNIFIED
SCHOOL DISTRICT


Clovis
High School
Celeste
Mcarthur
Amber
Burl
Cypress
Roberts
Douglas
Whittier
Bliss
Laverne
Burgan
Wrenwood
Shirley
Fowler
Finchwood
Robinwood
Clovis High
Clovis
Elementary
Lincoln
Renn
Portals
Armstrong
Barstow
Bundy
Purvis
Cougar
Ash
Barstow
N
W
E
S
CLOVIS
UNIFIED
SCHOOL DISTRICT
0
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0.2
Miles

Clovis West High School
Cole
5th
6th
7th
4th
Vermont
Millbrook
Fort Washington
Clovis West High
Teague
Teague
11th
9th
8th
Salem
Salem
Richmond
6th
Richmond
Quincy
7th
10th
Portland
N
W
E
S
CLOVIS UNIFIED SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles

Cole
Elementary School
Tenaya
Ellery
Peach
Vartikian
Cindy
Anderson
Sample
Karen
Escalon
Sylmar
Cole
Gibson
Escalon
Gateway
Gibson
Adler
Stuart
Pierce
Timmy
Helm
Mesa
Bullard
Willow
N
W
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CLOVIS
UNIFIED
SCHOOL DISTRICT
0
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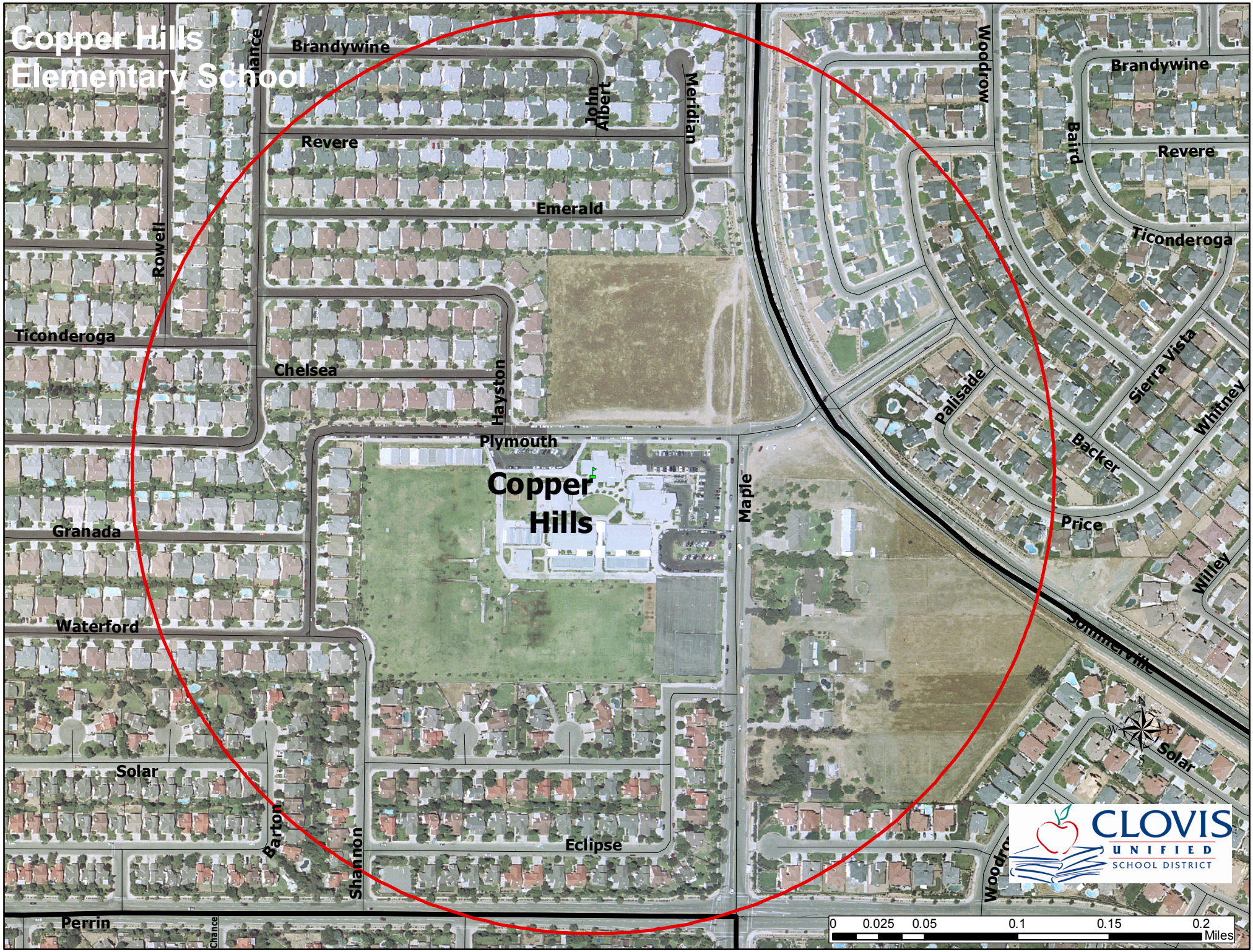
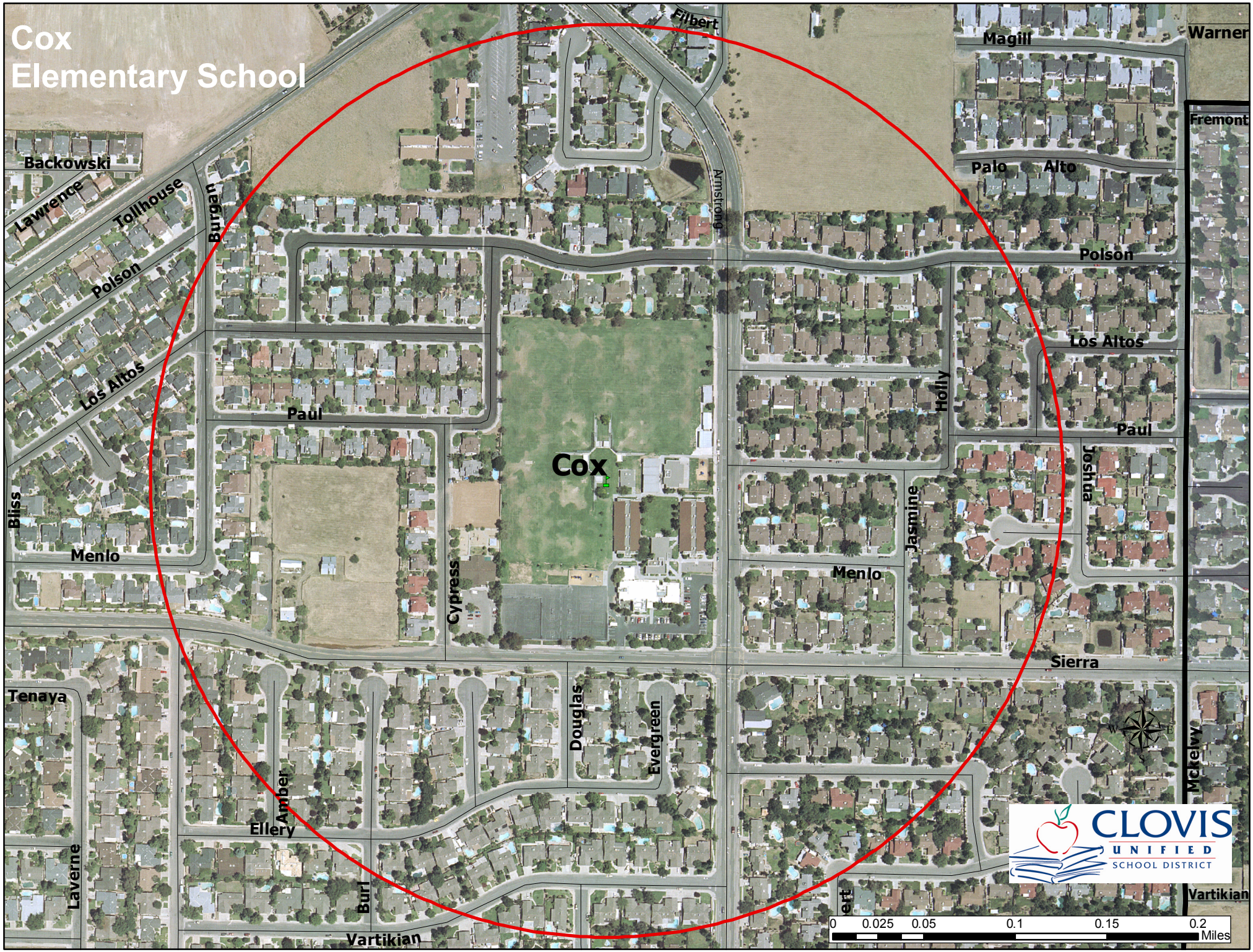
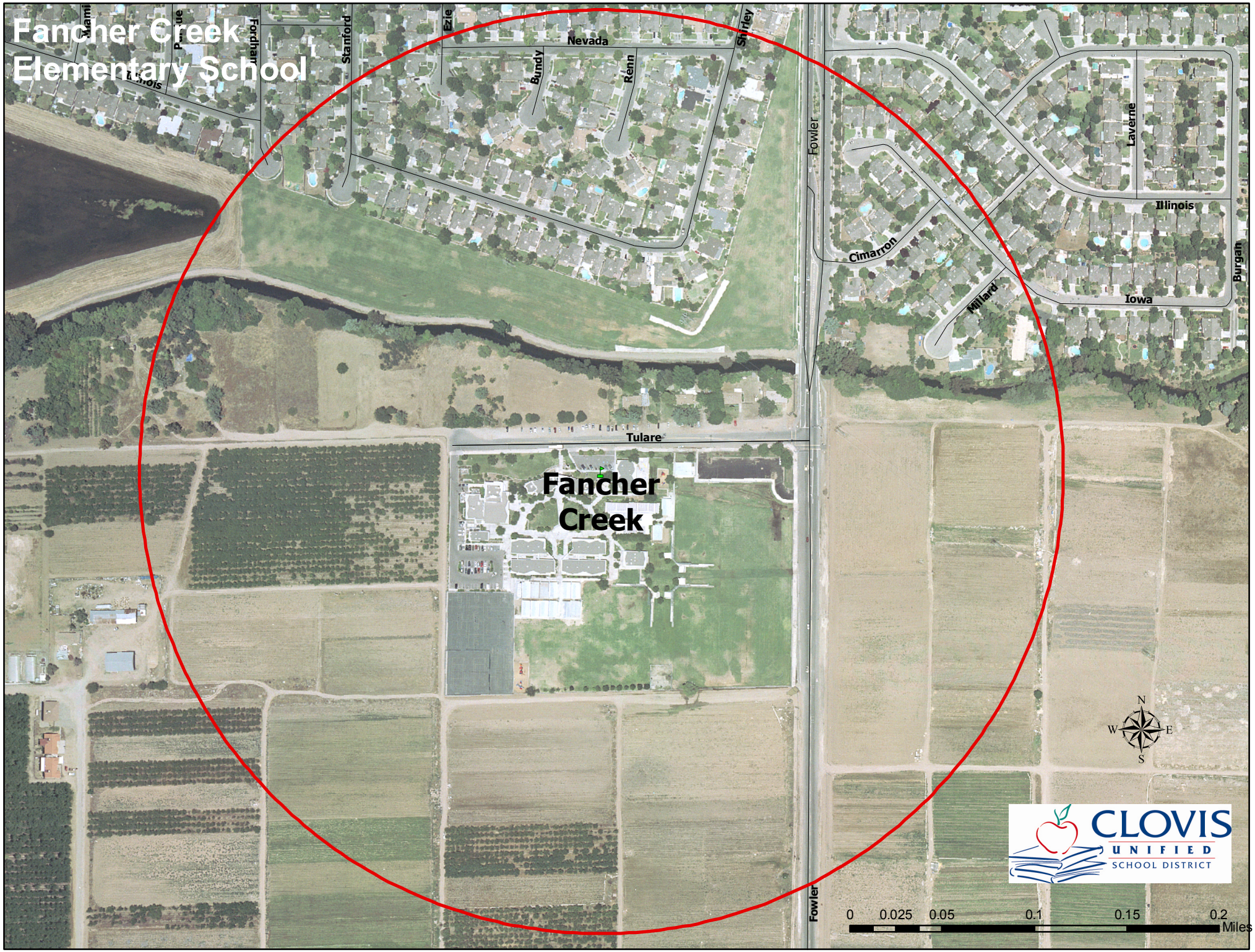
Miles

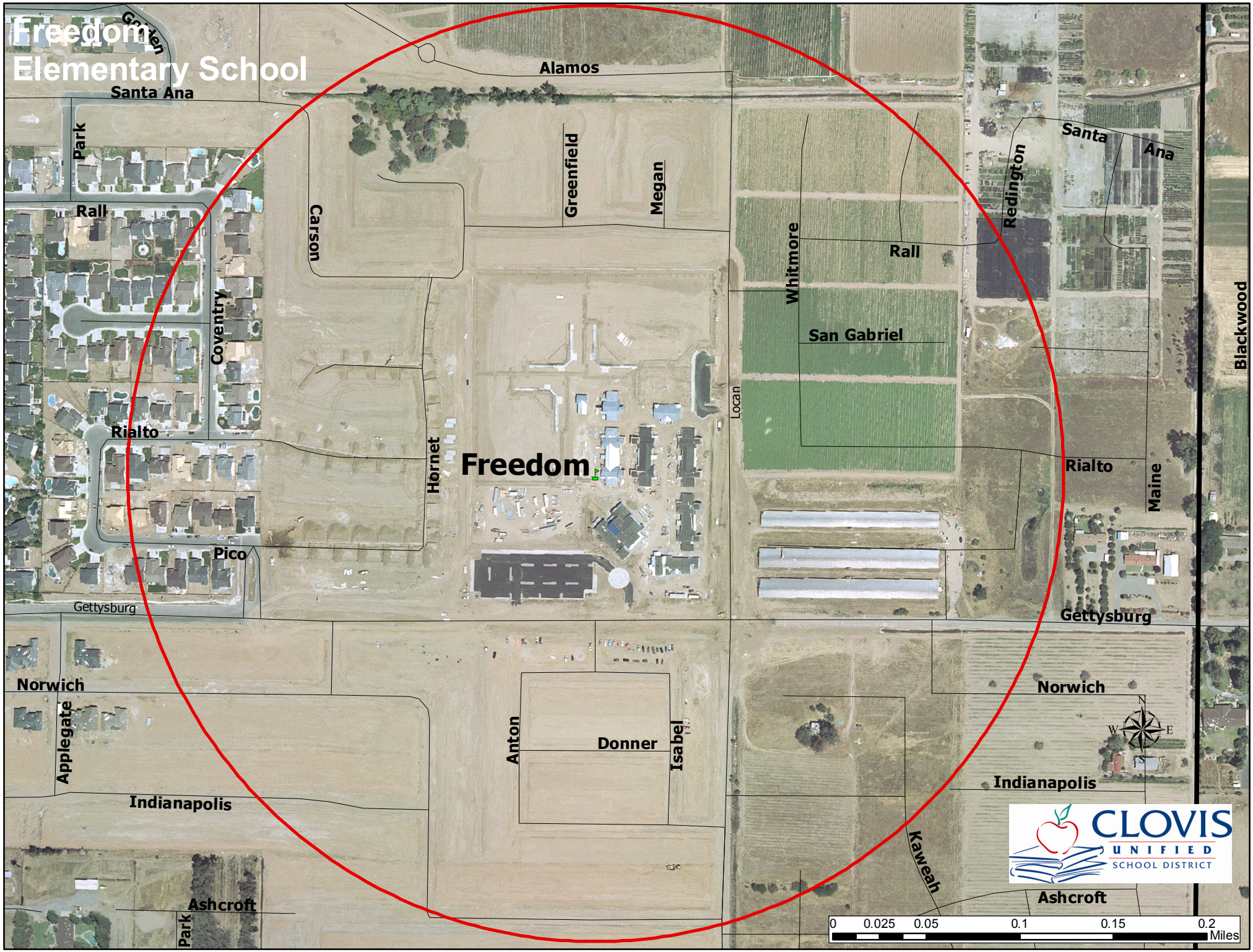

Copper Hills Elementary School
Brandywine
Revere
Emerald
Chelsea
Plymouth
Ticonderoga
Granada
Waterford
Solar
Perrin
Eclipse
Copper Hills
Maple
Hayston
Meridian
John Albert
Rowell
Chance
Barton
Shannon
Woodrow
Baird
Palisade
Backer
Price
Sierra Vista
Whitney
Willey
Sommerville
CLOVIS UNIFIED SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles


Cox
Elementary School
Cox
Filbert
Magill
Warner
Fremont
Backowski
Lawrence
Tollhouse
Burgan
Armstrong
Palo
Alto
Polson
Los Altos
Paul
Holly
Josina
Jasmine
Bliss
Menlo
Cypress
Sierra
Tenaya
Douglas
Evergreen
Amber
Ellery
Laverne
Burl
Vartikian
Mckelvy
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles

Dry Creek
Elementary School
Armstrong
Lexington
Dry Creek
Joshua
Kenosha
Magnolia
Nees
Houston
Burl
Goshen
Ash
Burgan
Douglas
Armstrong
Filbert
Jasmine
Goshen
Mckelvy
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles


Fancher Creek Elementary School
Miami
Fordham
Stanford
Ezie
Nevada
Bundy
Rénn
Shirley
Fowler
Laverne
Illinois
Burgan
Cimarron
Millard
Iowa
Tulare
Fancher Creek
Fowler
N
W
E
S
CLOVIS UNIFIED SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles

Fort Washington Elementary School
Cole
5th
6th
7th
Filler
Warwick
4th
Vermont
Millbrook
Clovis West High
Fort Washington
Trenton
Utah
Bond
Teague
9th
8th
3rd
Salem
Richmond
6th
Quincy
4th
7th
CLOVIS UNIFIED SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles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Elementary School
Santa Ana
Alamos
Park
Rall
Carson
Greenfield
Megan
Whitmore
Rall
Redington
Santa
Ana
Blackwood
Coventry
San Gabriel
Locan
Rialto
Hornet
Freedom
Rialto
Maine
Pico
Gettysburg
Gettysburg
Norwich
Norwich
Applegate
Anton
Donner
Isabel
Indianapolis
Indianapolis
Kaweah
Ashcroft
Ashcroft
Park
N
W
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CLOVIS
UNIFIED
SCHOOL DISTRICT
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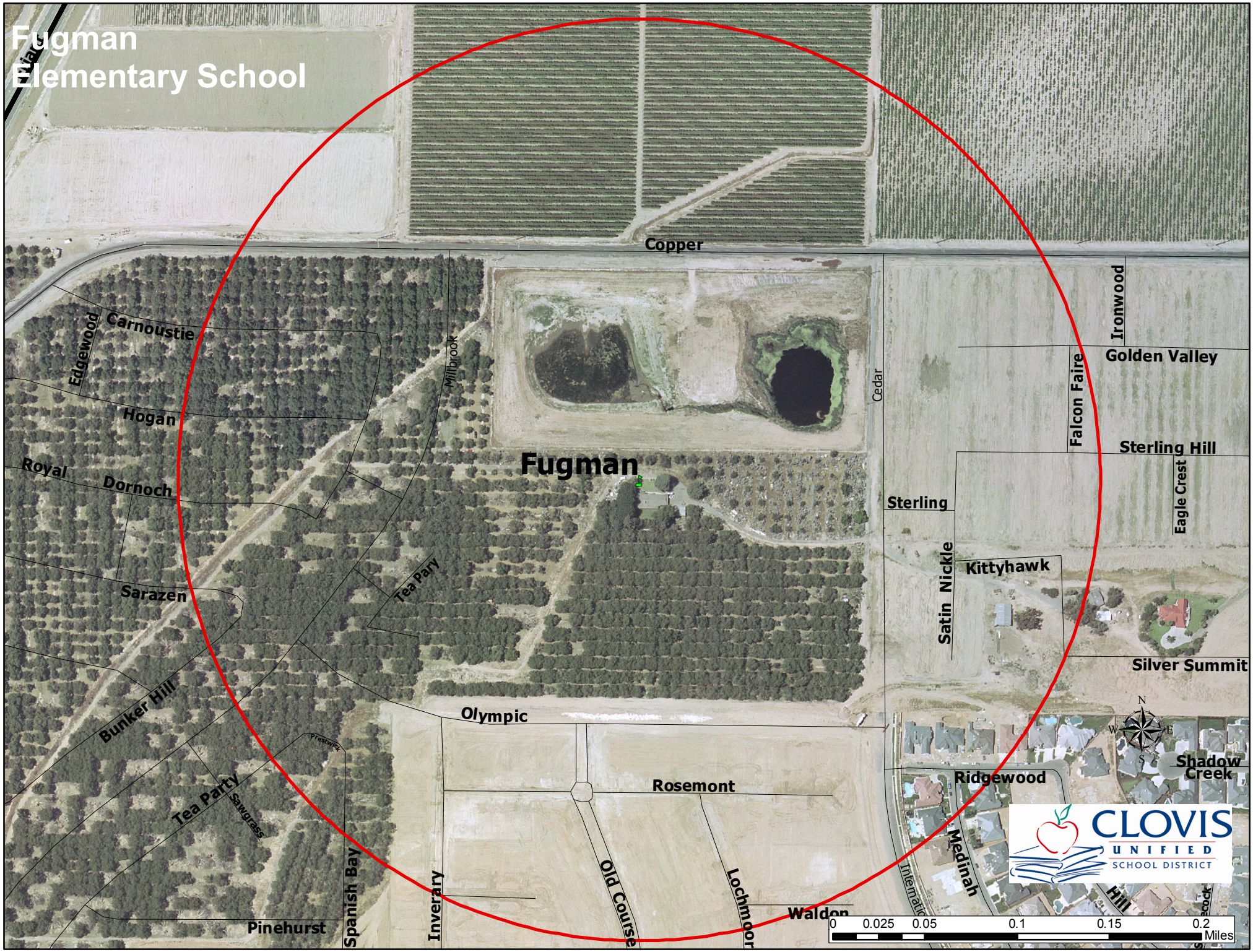
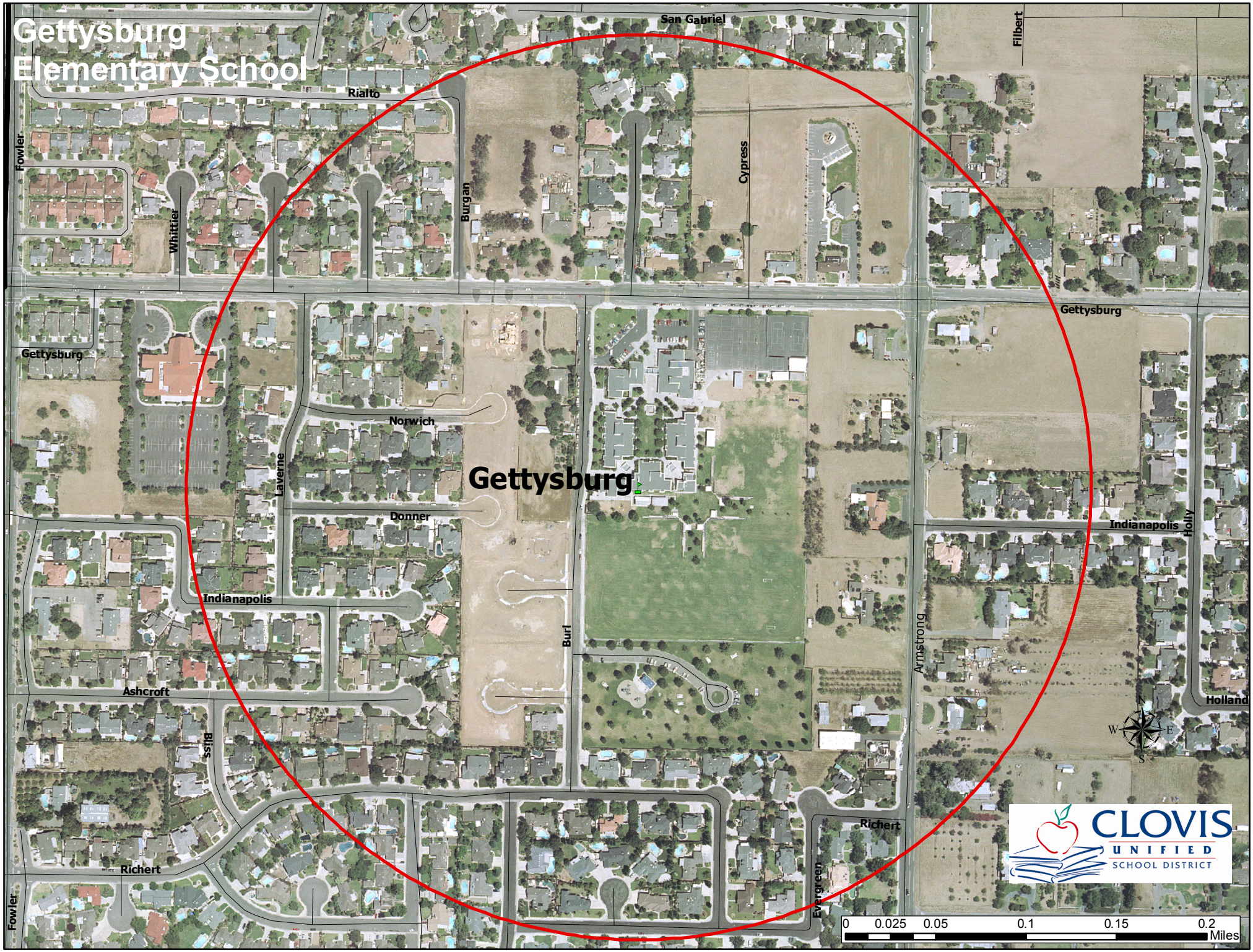
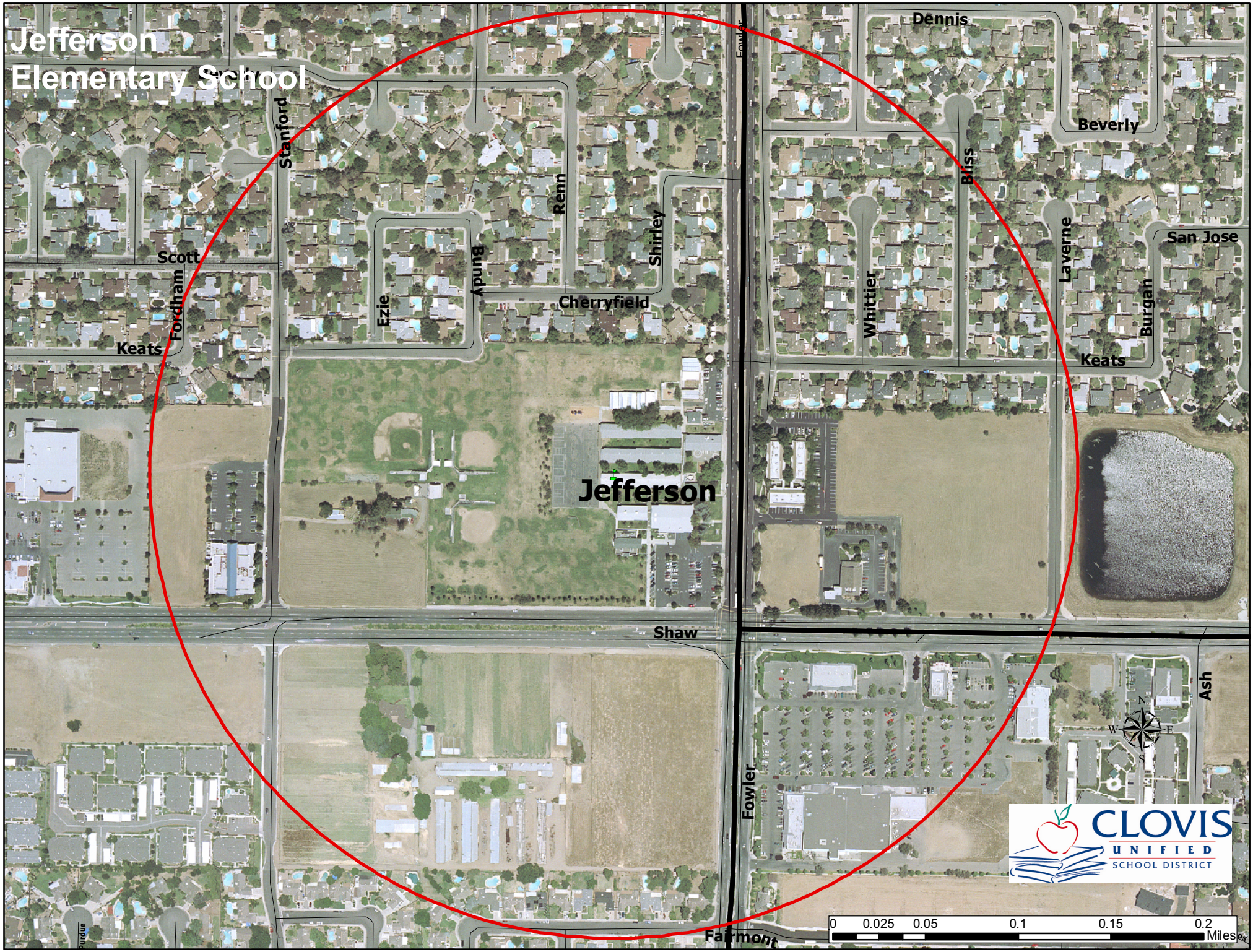
0.2
Miles


Fugman
Elementary School
Copper
Edgewood
Carnoustie
Millbrook
Hogan
Royal
Dornoch
Fugman
Cedar
Ironwood
Golden Valley
Falcon Faire
Sterling Hill
Eagle Crest
Sterling
Satin
Nickle
Kittyhawk
Silver Summit
Sarazen
Tea Pary
Bunker Hill
Olympic
Prestwick
Tea Party
Sawgrass
Rosemont
Ridgewood
Shadow Creek
Medinah
Spanish Bay
Inverary
Old Course
Lochmoor
Waldon
Pinehurst
Hill
0 0.025 0.05 0.1 0.15 0.2
Miles

Garfield
Elementary School
Omaha
Enterprise
Muncie
Lexington
Terry
Kenosha
Sylmar
Nees
Peach
Garfield
Nees
Jordan
Houston
Fallbrook
Citadel
Cindy
Karen
Goshen
Bush
Caesar
Halifax
Jordan
Houston
Lind
N
W
E
S
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles

Gateway High School
Locust
Fordham
Stanford
Ezie
Bundy
Renn
Shirley
Fir
Boston
Sunnyside
Herndon
Duke
Gateway
Magill
Fremont
Acacia
Stovall
David E Cook
Burlingame
Palo Alto
Backowski
Los Altos
0 0.025 0.05 0.1 0.15 0.2
Miles


Gettysburg Elementary School
San Gabriel
Filbert
Rialto
Fowler
Whittier
Burgan
Cypress
Gettysburg
Gettysburg
Norwich
Gettysburg
Laverne
Donner
Indianapolis
Holly
Indianapolis
Burl
Armstrong
Ashcroft
Holland
Bliss
Richert
Richert
Fowler
Evergreen
N
W
E
S
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles


Jefferson
Elementary School
Stanford
Scott
Fordham
Keats
Ezie
Bundy
Renn
Shirley
Cherryfield
Dennis
Beverly
Bliss
Whittier
Laverne
San Jose
Burgan
Keats
Jefferson
Shaw
Fowler
Ash
Fairmont
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles

Liberty
Elementary School
Mowbrook
Tea Party
Yorktown
Mohawk
Ticonderoga
Cedar
Granville
Emerald
Plymouth
Windsor
Plymouth
Newhall
Jamestown
Woodrow
Palisade
Granada
Bunkerhill
Liberty Hill
Dominion
Sharon
Waterford
Democracy
Pennsylvania
Manhattan
Liberty
Solar
Boyd
Whitehouse
Senator
Congress
10th
Eclipse
Freedom
Perrin
Edgemont
Cottage
Valley
Forge
DeYoung
Rowell
Champlain
Norwood
Valley
Hickory
Hill
St Martin
0
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0.2
Miles
CLOVIS
UNIFIED
SCHOOL DISTRICT

Lincoln
Elementary School
El Paso
1st
El Paso
6th
Decatur
Cromwell
Flora
Bedford
5th
Lincoln
Alluvial
Alluvial
3rd
Bond
Pinedale
Minarets
1st
Birch
N
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CLOVIS
UNIFIED
SCHOOL DISTRICT
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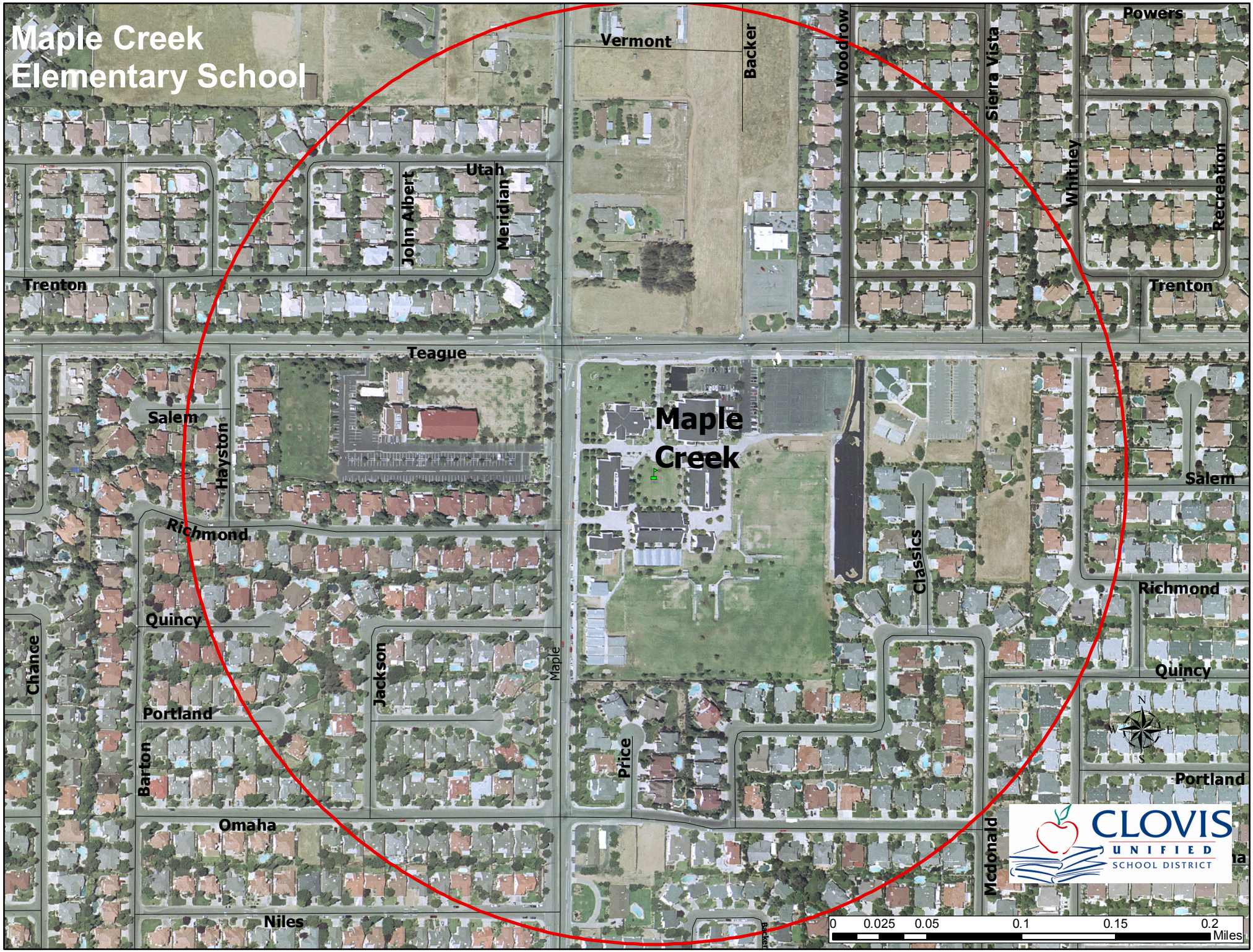
Miles


Maple Creek Elementary School
Maple Creek
Vermont
Backer
Woodrow
Sierra Vista
Powers
Whitney
Recreation
Utah
John Albert
Meridian
Trenton
Teague
Salem
Hayston
Richmond
Quincy
Chance
Jackson
Maple
Portland
Barton
Omaha
Niles
Price
Classics
Mcdonald
N
W
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S
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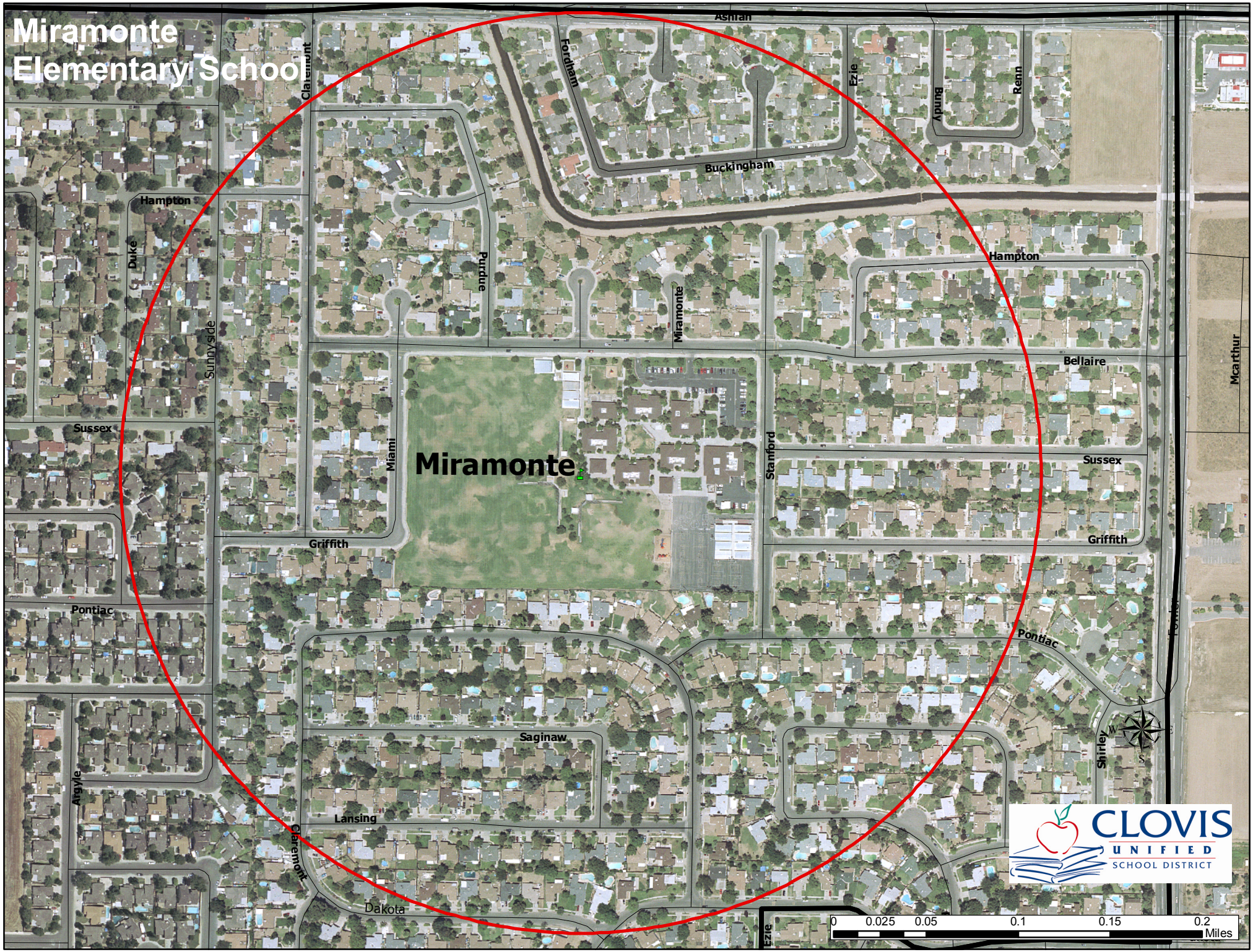
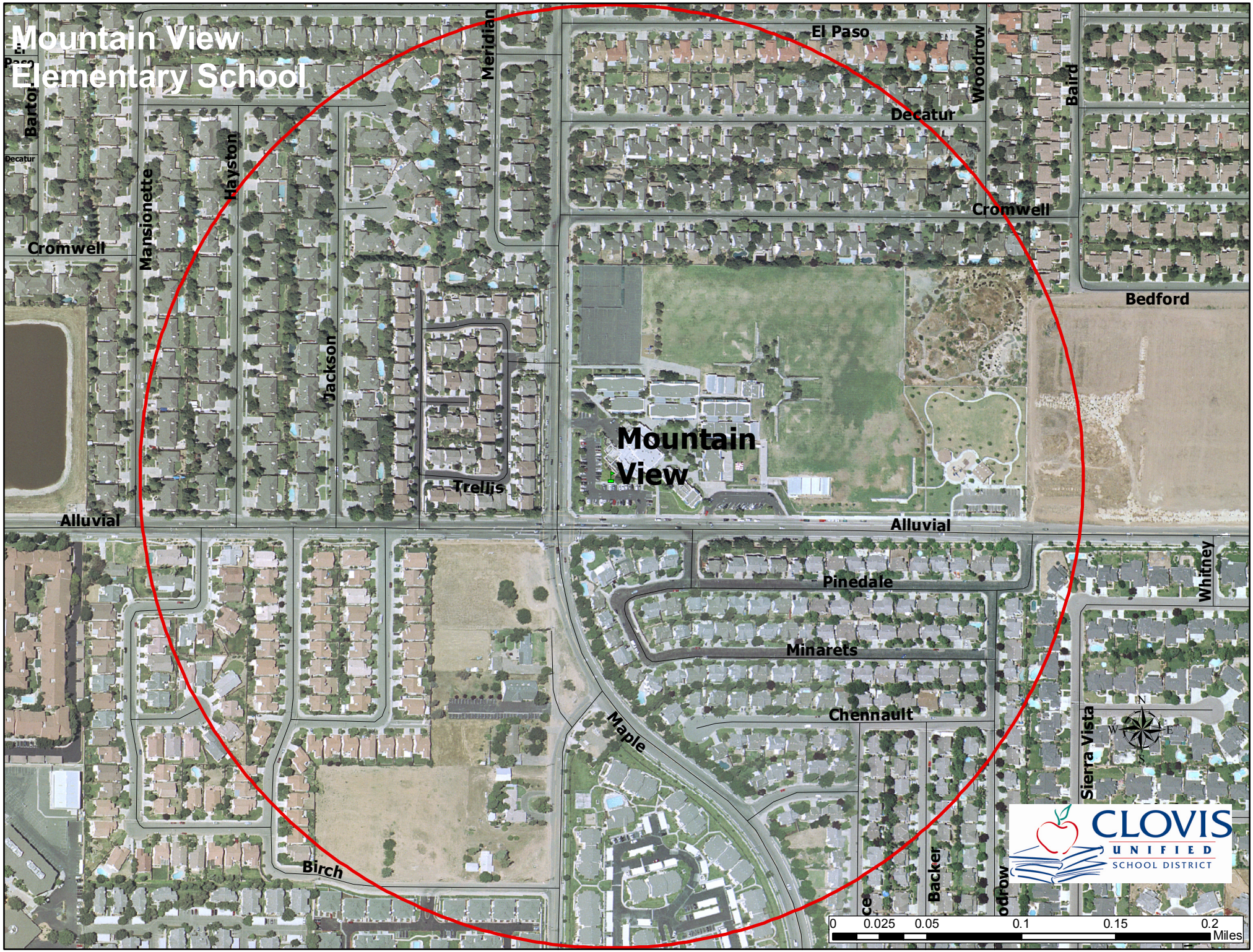
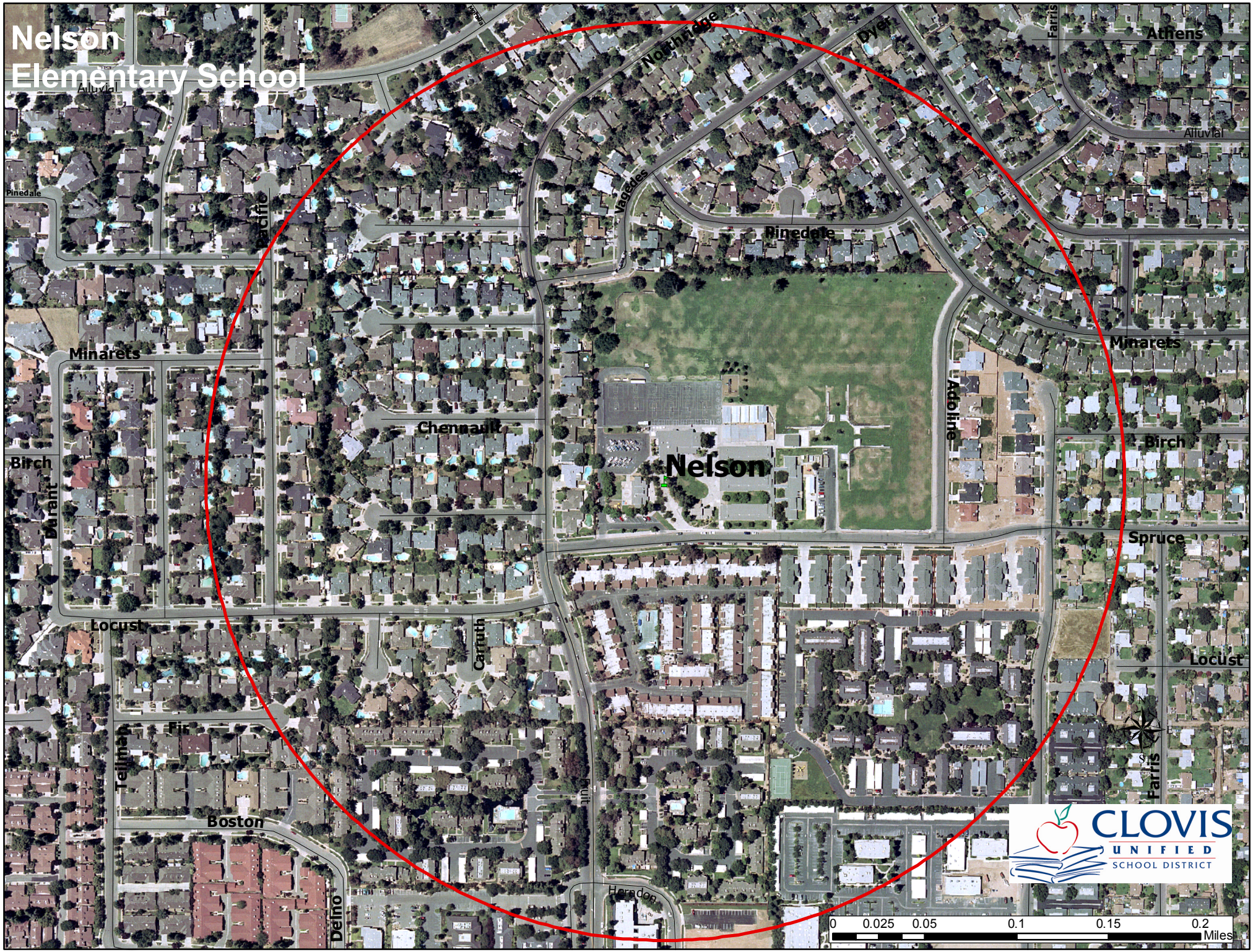
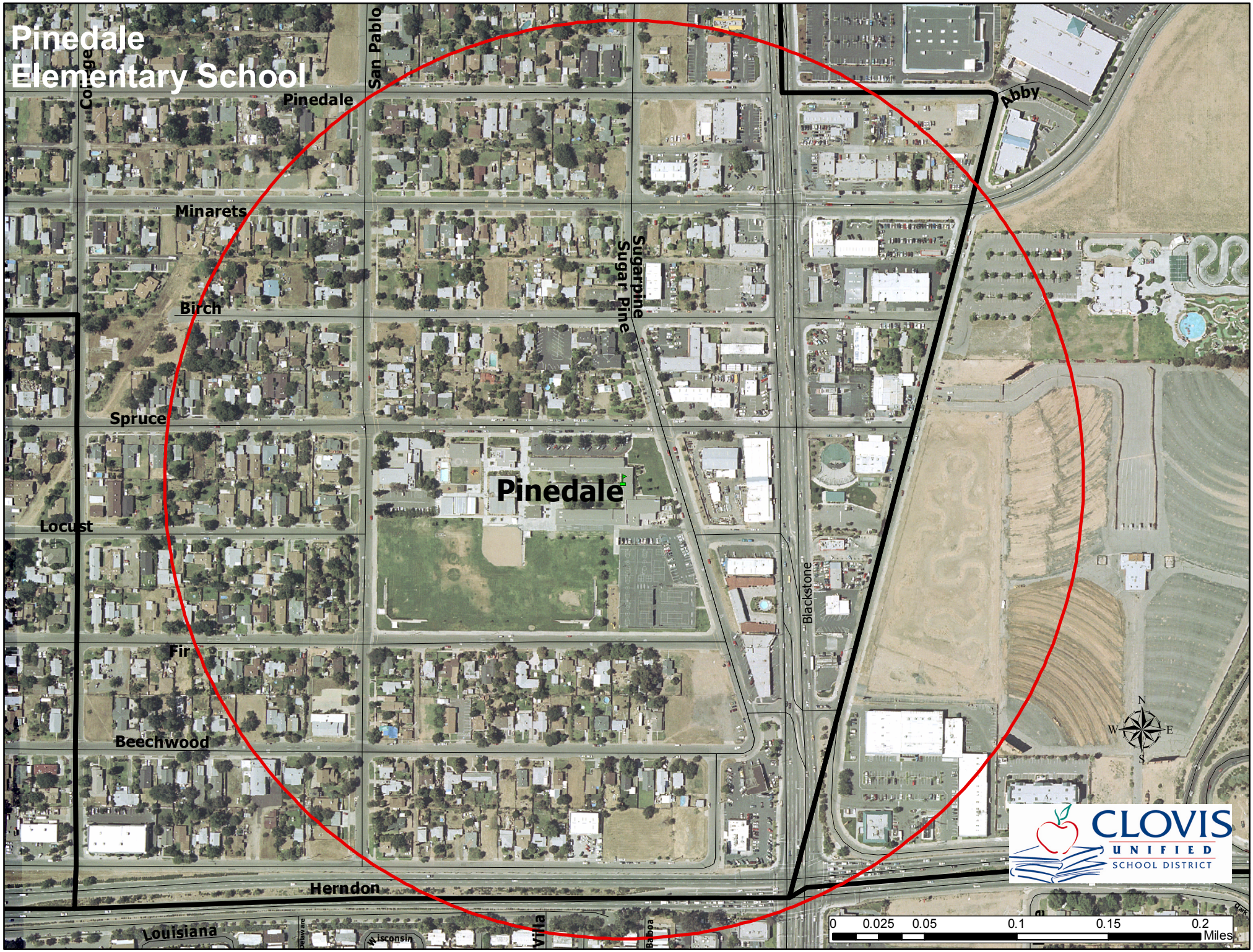
Miles
CLOVIS
UNIFIED
SCHOOL DISTRICT


Miramonte Elementary School
Ashlan
Fordham
Ezie
Bundy
Renn
Buckingham
Hampton
Duke
Sunnyside
Claremont
Purdue
Miramonte
Hampton
Bellaire
Mcarthur
Sussex
Miami
Miramonte
Stanford
Sussex
Griffith
Griffith
Pontiac
Pontiac
Fowler
Saginaw
Shirley
Argyle
Lansing
Claremont
Dakota
Ezie
0 0.025 0.05 0.1 0.15 0.2
Miles
CLOVIS UNIFIED SCHOOL DISTRICT


Mountain View Elementary School
Meridian
El Paso
Woodrow
Baird
Decatur
Cromwell
Mansionette
Hayston
Jackson
Trellis
Bedford
Mountain View
Alluvial
Pinedale
Minarets
Chennault
Maple
Whitney
Sierra Vista
Backer
Birch
N
W
E
S
CLOVIS UNIFIED SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles


Nelson
Elementary School
Nelson
Northridge
Dyer
Farris
Athens
Alluvial
Pinedale
Vagedes
Pacific
Minarets
Chennault
Adoline
Birch
Durant
Spruce
Locust
Carruth
Fir
Teilman
Boston
Delno
Herndon
0 0.025 0.05 0.1 0.15 0.2
Miles
CLOVIS
UNIFIED
SCHOOL DISTRICT


Pinedale
Elementary School
College
San Pablo
Pinedale
Abby
Minarets
Sugarpine
Sugar Pine
Birch
Spruce
Pinedale
Locust
Blackstone
Fir
Beechwood
Herndon
Louisiana
Delaware
Wisconsin
Villa
Balboa
N
W
E
S
CLOVIS
UNIFIED
SCHOOL DISTRICT
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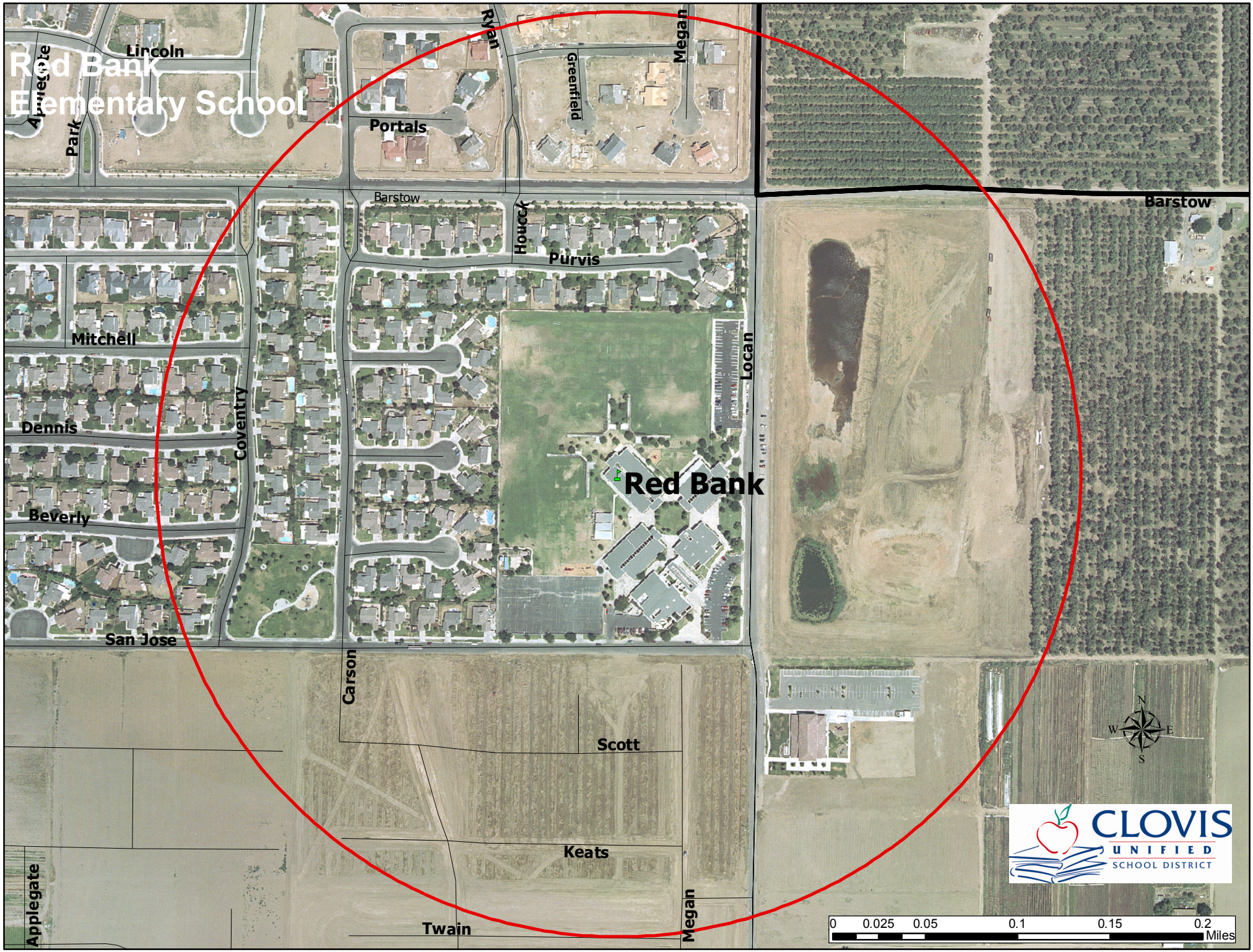
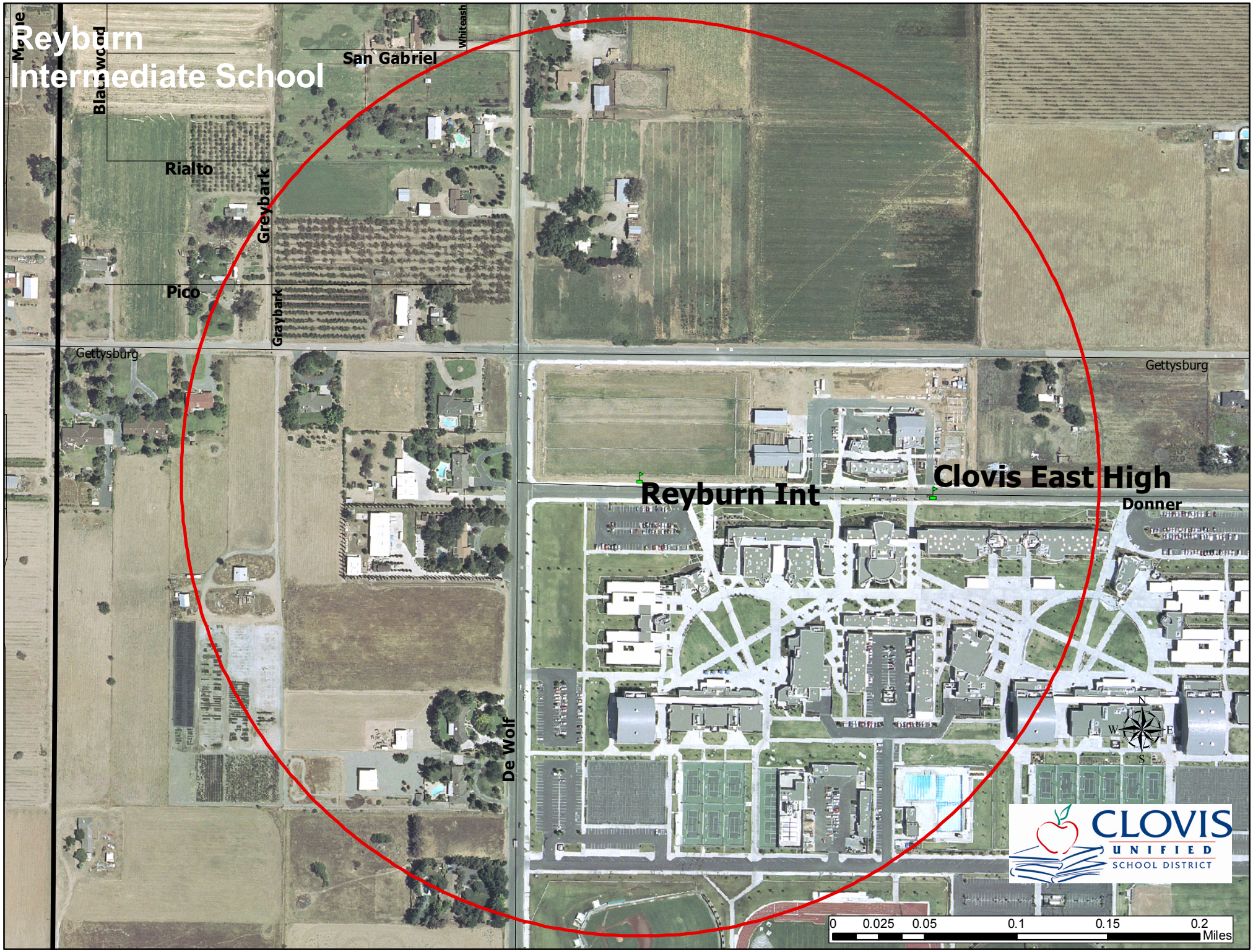
0.2
Miles


Red Bank
Elementary School
Lincoln
Applegate
Park
Portals
Ryan
Greenfield
Megan
Barstow
Houcck
Purvis
Mitchell
Coventry
Dennis
Beverly
San Jose
Carson
Red Bank
Locan
Barstow
Scott
Keats
Twain
Applegate
Megan
N
W
E
S
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles


Reyburn
Intermediate School
Maple
Blackwood
San Gabriel
Whiteash
Rialto
Greybark
Pico
Graybark
Gettysburg
Gettysburg
Reyburn Int
Clovis East High
Donner
De Wolf
N
W
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S
CLOVIS
UNIFIED
SCHOOL DISTRICT
0
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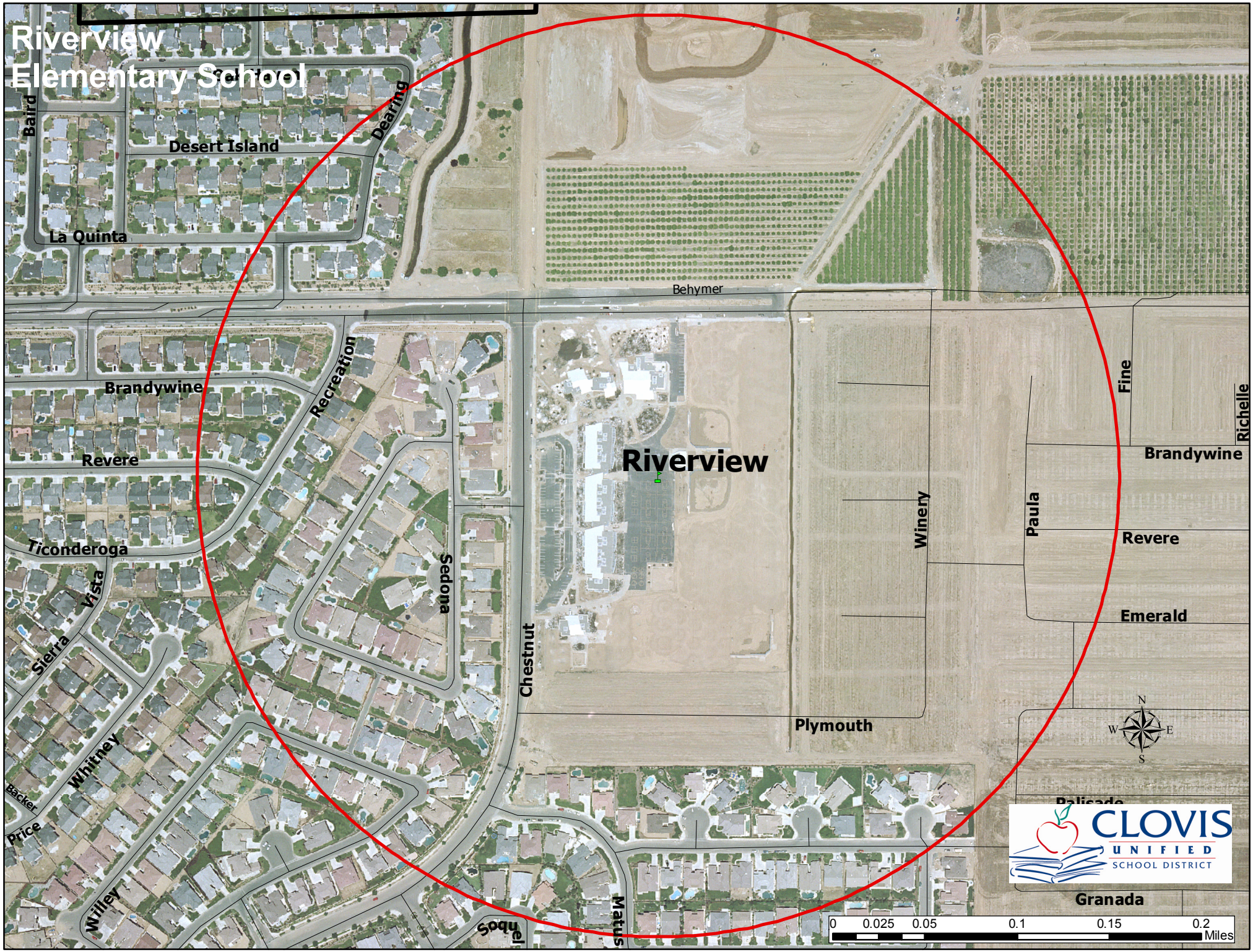
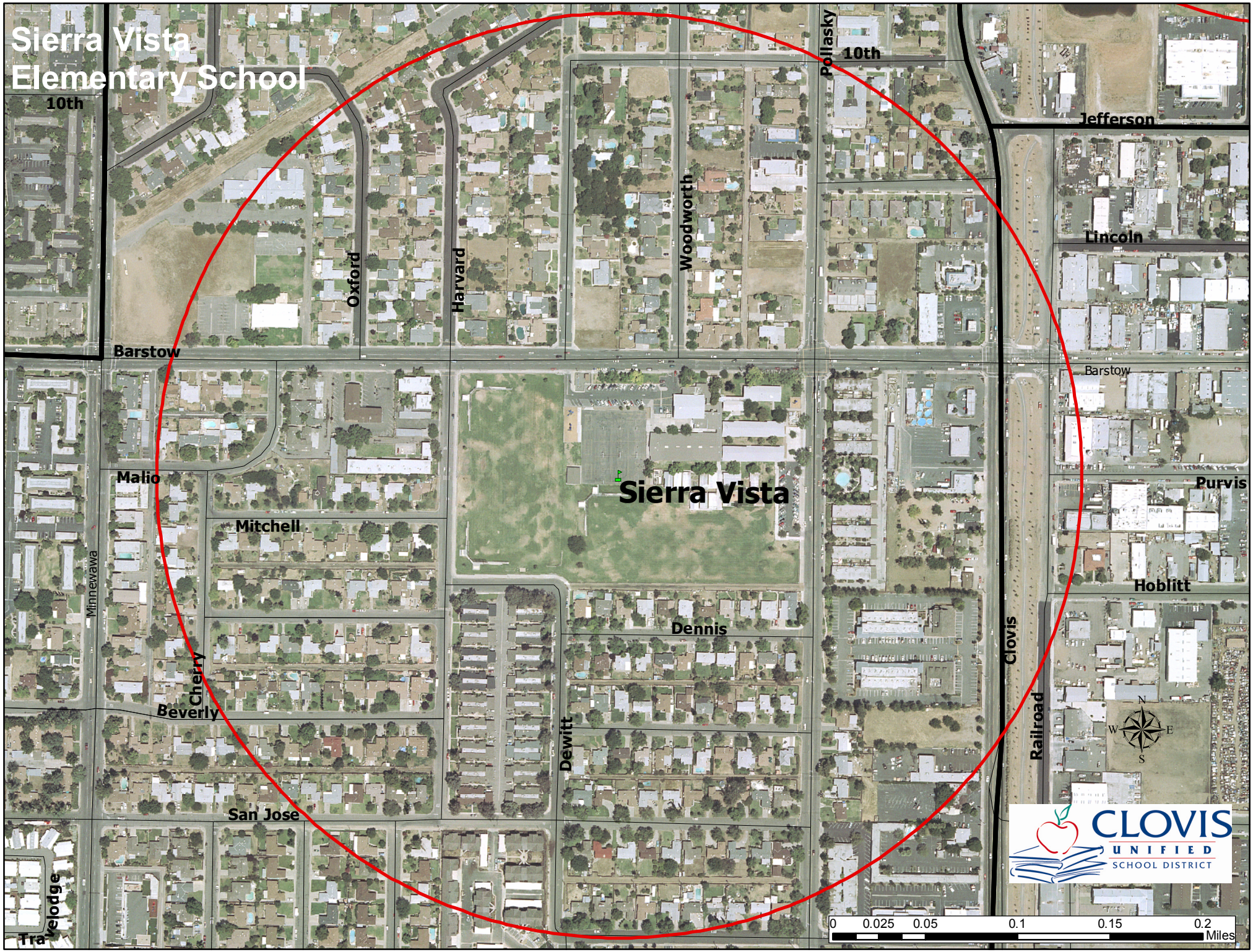
Miles


Riverview
Elementary School
Baird
Desert Island
Dearing
La Quinta
Behymer
Brandywine
Recreation
Revere
Riverview
Fine
Richelle
Brandywine
Winery
Paula
Revere
Emerald
Ticonderoga
Vista
Sierra
Sedona
Chestnut
Plymouth
Whitney
Backer
Price
Willey
Matus
Palisade
Granada
N
W
E
S
CLOVIS
UNIFIED
SCHOOL DISTRICT
0 0.025 0.05 0.1 0.15 0.2
Miles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10th
Pollasky
10th
Jefferson
Oxford
Harvard
Woodworth
Lincoln
Barstow
Barstow
Malio
Sierra Vista
Purvis
Mitchell
Minnewawa
Hoblitt
Dennis
Clovis
Cherry
Railroad
Beverly
Dewitt
San Jose
Travelodge
N
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CLOVIS
UNIFIED
SCHOOL DISTRICT
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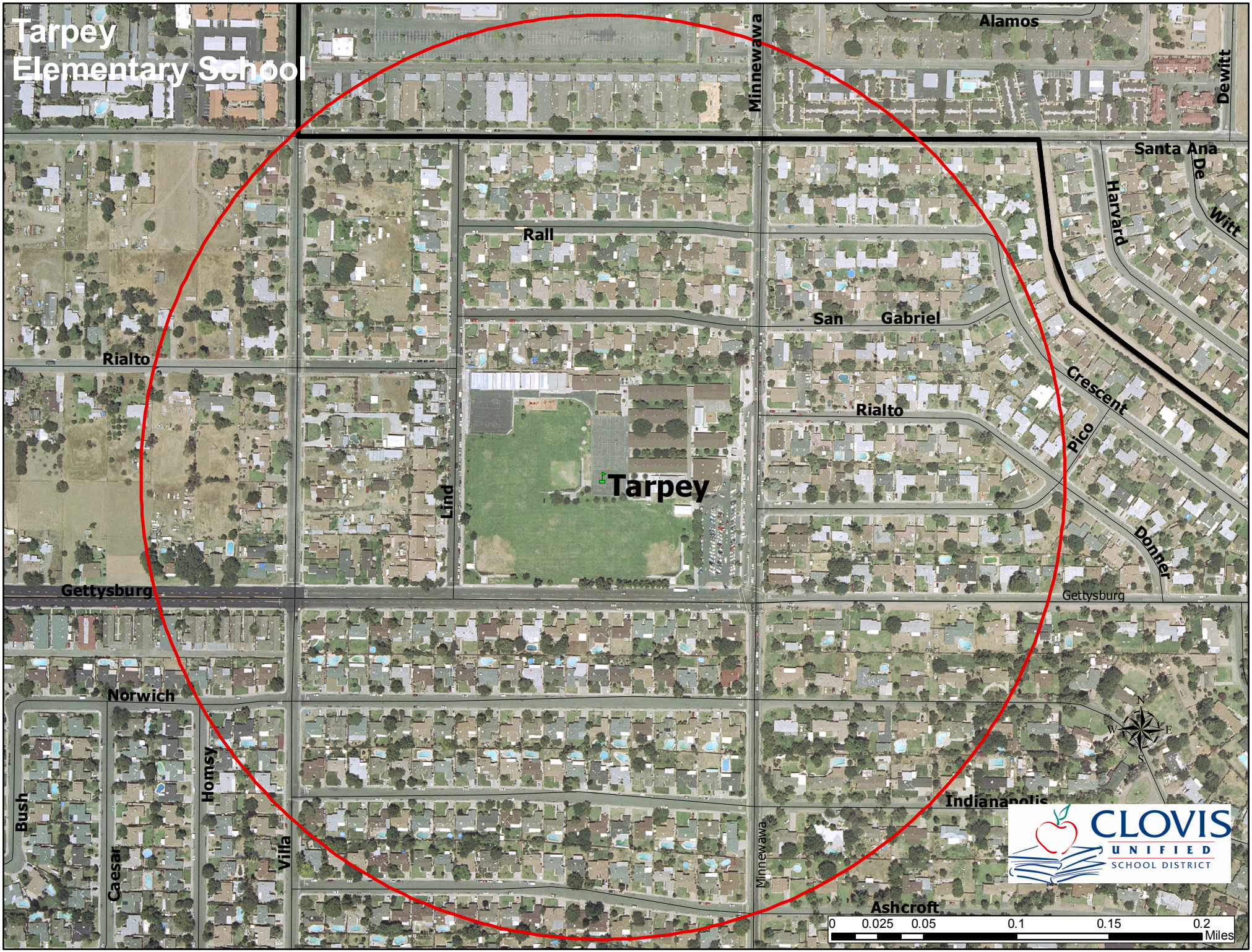
Miles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Elementary School
Alamos
Minnewawa
Dewitt
Santa Ana
De
Witt
Harvard
Rall
San
Gabriel
Rialto
Crescent
Pico
Tarpey
Lind
Donner
Gettysburg
Norwich
Bush
Caesar
Homsy
Villa
Indianapolis
Ashcroft
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UNIFIED
SCHOOL DISTRICT
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Miles

Termperance-Kutner
Elementary School
Olive
Olive
TK
Armstrong
Harvey
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UNIFIED
SCHOOL DISTRICT
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Miles

Valley Oak
Elementary School
Heron
Finch
Friant
Shelldrake
Teal
Brandywine
Boulder
Creek
Eastshore
Canyon Creek
Chelsea
Fort Washington
Feather
River
Shasta
Westshore
Moss Creek
Willow
Creek
Cascade
Salmon
River
Lakeshore
Rock
Creek
Valley Oak
Champlain
Capri
Club
Sherman
Shenandoah
Buttonwood
Edgemont
Keystone
Madison Ridge
CLOVIS
UNIFIED
SCHOOL DISTRICT
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Miles

Weldon
Elementary School
Bolson
Woodworth
Clovis
Sierra
1st
2nd
3rd
4th
Ca-168
Weldon
Cherry
Minnewawa
Oxford
Harvard
Laurel
Anita
Scotty
Dewitt
Pollasky
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SCHOOL DISTRICT
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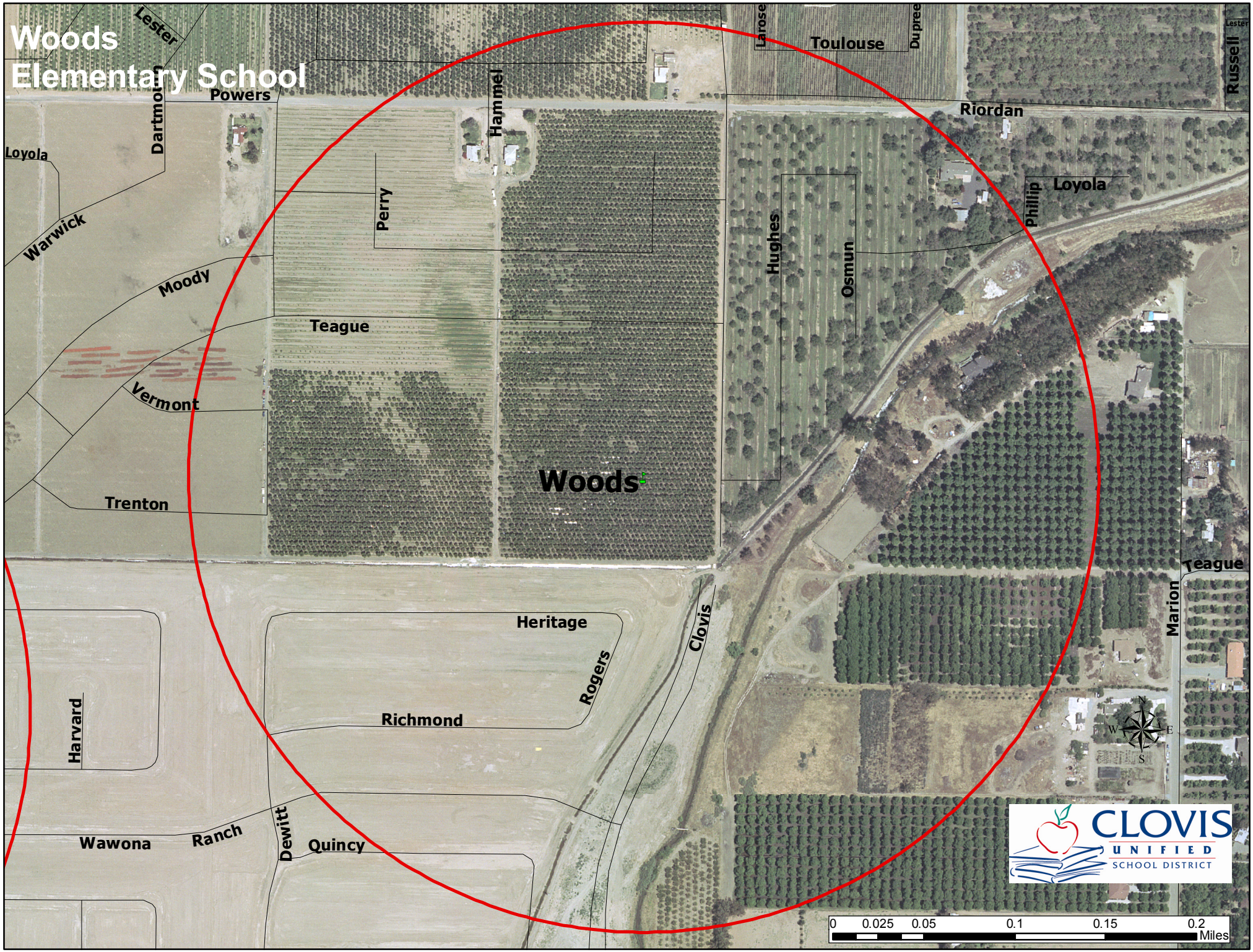
Miles


Woods
Elementary School
Lester
Dartmoor
Powers
Hammel
Larose
Toulouse
Dupree
Russell
Riordan
Loyola
Warwick
Perry
Hughes
Osmun
Philip
Loyola
Moody
Teague
Vermont
Woods
Trenton
Heritage
Clovis
Rogers
Marion
Teague
Harvard
Richmond
Dewitt
Wawona
Ranch
Quincy
CLOVIS
UNIFIED
SCHOOL DISTRICT
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Miles

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