



# FIRE APPARATUS ACCESS ROAD STANDARD

SAN JOAQUIN COUNTY FIRE PREVENTION BUREAU

1810 E. HAZELTON AVENUE, STOCKTON, CA 95205

BUSINESS PHONE: (209)468-3380

The San Joaquin County Fire Chiefs' Association has adopted the following guide for providing fire apparatus access roads as required by the current edition of the California Fire Code (CFC). Fire apparatus access roads shall be provided for every facility, building, or portion of a building constructed or moved into or within the jurisdiction when any portion of the facility or any portion of an exterior wall of the first story of the building is located more than 150 feet from fire apparatus access as measured by an approved route around the exterior of the building or facility. The fire apparatus access road shall comply with the requirements of this standard and shall extend to within 150 feet of all portions of building or facility.

## General:

1. A new fire apparatus access road is not required for any of the following unless specifically required by the Fire District:
  - a. Additions to existing buildings  $\leq$  750 square feet, or;
  - b. Additions to existing buildings  $\leq$  50% of the gross floor area of the building.
  - c. Newly constructed accessory buildings to a residential use  $\leq$  750 square feet which are conditioned by mechanical heating and/or cooling systems. Accessory buildings include game rooms, pool houses, recreational rooms, guest houses and similar structures which are not a dwelling unit as defined in the California Residential Code.
  - d. Group U occupancies as defined in the California Building Code.
2. Plans and specification for the fire apparatus access road shall be included on the site plan that is submitted to the Building Department or Fire District for review and approval prior to construction of the fire apparatus access road.
3. Fire apparatus access roads serving not more than two (2) structures on a single parcel shall comply with Exhibit "A" of this standard.
4. Fire apparatus access roads serving three (3) or more structures or dwelling units on one (1) or more parcels shall comply with Exhibit "B" of this standard.
5. When a fire apparatus access road is required for a Planned Unit Development (PUD), it shall be constructed and approved by the Fire District having authority before the County Surveyor's Office will file the map for record.
6. Parking is prohibited within the required 20 foot width of the fire apparatus access road. NO PARKING signs may be required.
7. Fire apparatus access roads shall be completed prior to a final inspection and issuance of the Certificate of Occupancy, OR approval of release of utilities for modular homes, mobile homes, or moved structures
8. When NO PARKING signs are required, they shall also include a reference to California Vehicle Code Section 22500.1 which prohibits, stopping, standing, or parking in a fire lane.
9. Where a fire apparatus access road serves more than one structure, each structure shall have an address posting at or on each structure.

**Definitions:**

**Planned Unit Development (PUD) or a Planned Residential Unit Development (PRD):** A residential subdivision or portion of land resulting in Three (3) or more dwelling units as approved and recorded in accordance with local planning and zoning regulations and the provisions of this standard.

**Public Way:** Public way is any street, alley, or similar parcel of land essentially unobstructed from the ground to the sky, which is deeded, dedicated, or otherwise permanently appropriated to the public for public use.

**Private Road:** A private road is any roadway or street serving one or more parcels and is not deeded, dedicated or otherwise appropriated to a public agency for use by the general public.

**EXHIBIT "A"****TWO OR FEWER STRUCTURES ON A SINGLE PARCEL****Construction and Design Requirements:**

1. The fire apparatus access road shall be designed and maintained to support the imposed loads of fire apparatus with a relative compaction of not less than ninety (90) percent and shall be provided with a surface to permit all weather driving capabilities (see the structural section in EXHIBIT "C"). A compaction test may be required.
2. The fire apparatus access road shall be designed and maintained to provide an unobstructed width of 20 feet and a vertical clearance of not less than 13 feet 6 inches. No parking is allowed within the required width for the entire length of the road. NO PARKING signs may be required.
3. The fire apparatus access road surface shall not allow the ponding of water.
4. Gates shall not project into the required minimum width and be located to provide a minimum of 30 feet from the edge of the pavement for fire apparatus to stop when opening the gate. Closed and or locked gates shall be provided with an approved Knox® lock or key switch. Application for the Knox® products shall be obtained from the Fire District having jurisdiction.
5. Turnarounds shall be provided no further than 150 feet from the dead end of the fire apparatus access road as provided in EXHIBIT "D". A turning radius greater than 41 feet may be required by the Fire District having jurisdiction.
6. On fire apparatus access roads longer than 500 feet in length, a reduction in width may be allowed with the addition of turnouts as determined by the Fire District having authority. Turnout dimensions shall be a minimum of 60 feet long and 10 feet wide at intervals to be determined by the Fire District having authority. Turnouts shall meet the same structural section required for the road.
7. Bridges, box culverts, or low water crossings shall be designed for HS 20-44 loading. An engineered plan shall be submitted to the San Joaquin County Building Department for review and approval prior to construction.

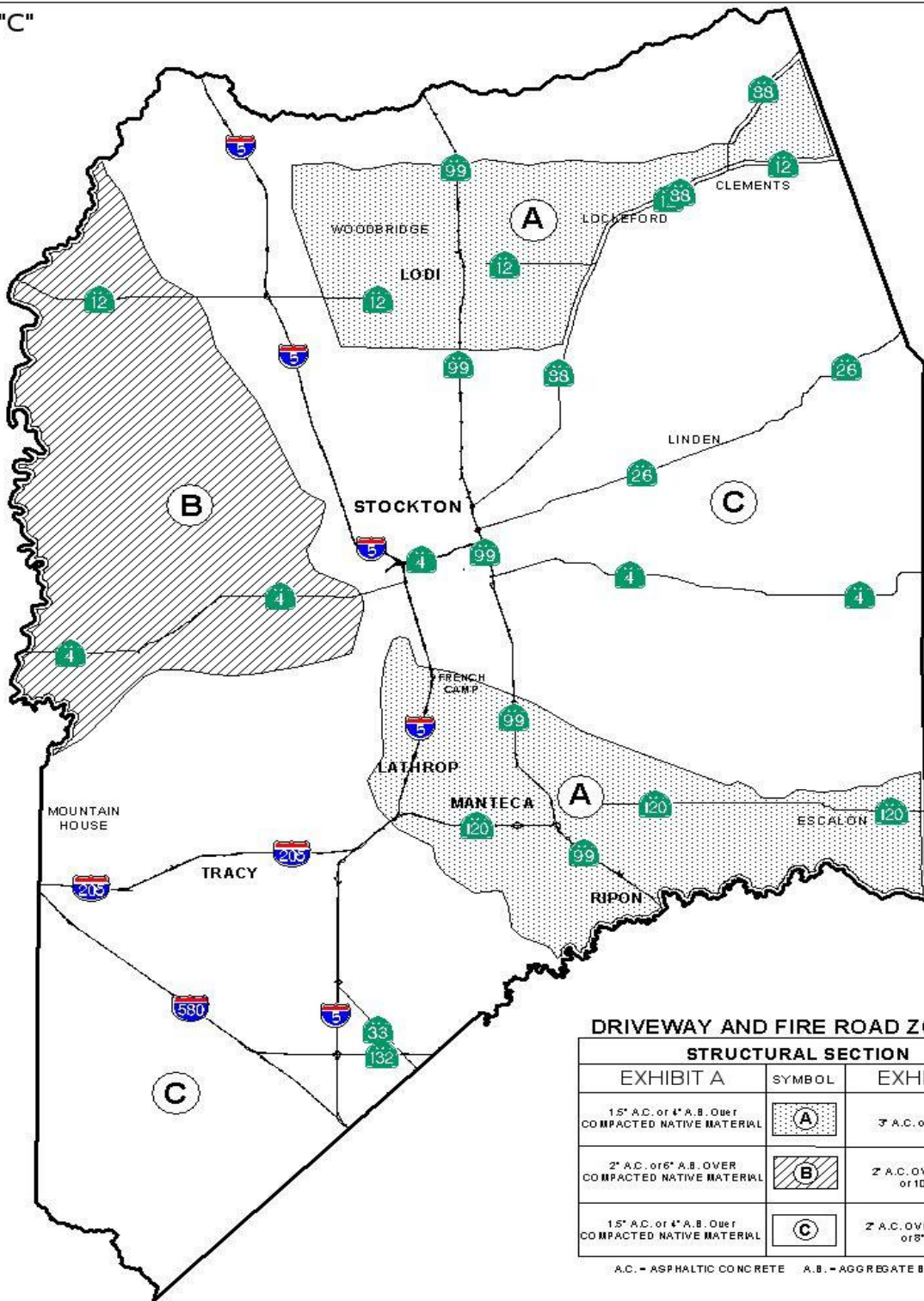
## EXHIBIT "B"

### THREE OR MORE DWELLING UNITS, OR A PLANNED UNIT DEVELOPMENT (PUD) OR A PLANNED RESIDENTIAL UNIT DEVELOPMENT (PRD)

#### Construction and Design Requirements:

1. The fire apparatus access road shall be designed and maintained to support the imposed loads of fire apparatus with a relative compaction of not less than ninety (90) percent and shall be provided with a surface to permit all weather driving capabilities (see the structural section in EXHIBIT "C"). A compaction test may be required.
2. Private roadways in a PUD or PRD shall be designed and maintained to support the imposed loads of fire apparatus, have a relative compaction of not less than ninety (95) percent, and have a finished surface of asphaltic concrete pavement or equivalent. These roadways shall have an agreement delineating maintenance and repair responsibilities by the landowners utilizing the access roadway(s) for ingress and egress and such document shall be recorded in the Official Records of the County of San Joaquin.
3. The fire apparatus access road shall be designed and maintained to provide an unobstructed width, height and use specifications below:
  - a. 20-foot minimum unobstructed width:
    - i. Parking is not allowed and may be so posted when required by the Fire District having authority.
  - b. 28-foot minimum unobstructed width:
    - i. Parking is allowed on one side of the street and may be so posted when required by the Fire District having authority.
  - c. 36-foot minimum unobstructed width:
    - i. Parking is unrestricted provided a 20-foot minimum unobstructed width is maintained.
    - ii. Rollover curbs are acceptable and preferable.
  - d. An unobstructed vertical clearance of not less than 13 feet 6 inches is required for all roads.
4. The fire apparatus access road surface shall not allow the ponding of water.
5. Gates shall not project into the required minimum width and be located to provide a minimum of 30 feet from the edge of the pavement for fire apparatus to stop when opening the gate. Closed and or locked gates shall be provided with an approved Knox® lock or key switch. Application for the Knox® products shall be obtained from the Fire District having jurisdiction.
6. Turnarounds shall be provided no further than 150 feet from the dead end of the fire apparatus access road and as provided in EXHIBIT "D". Turning radius greater than 41 feet may be required by the Fire District having authority.
7. On fire apparatus access roads longer than 500 feet in length a reduction in width may be allowed with the addition of turnouts as determined by the Fire District having authority. Turnout dimensions shall be a minimum of 60 feet long and 10 feet wide at intervals to be determined by the Fire District having authority. Turnouts shall meet the same structural section required for the road.
8. Bridges, box culverts, or low water crossings shall be designed for HS 20-44 loading. An engineered plan shall be submitted to the San Joaquin County Building Department for review and approval prior to construction.
9. Roads installed per this standard shall be named and the appropriate County department shall apply addresses. Public roads shall comply with the requirements of San Joaquin County Public Works Department and the signage shall be installed accordingly. Private roads shall be named and the signage shall be green with white lettering and reflective in nature with the letters (PVT) in yellow with black at the end of the road name. These private signs will be purchased from, and installed by the S. J. Co. Public Works Department. Road names and addresses shall be approved by the Community Development Department prior to installation.

EXHIBIT "C"



DRIVEWAY AND FIRE ROAD ZONES

STRUCTURAL SECTION		
EXHIBIT A	SYMBOL	EXHIBIT B
1.5" A.C. or 4" A.B. Over COMPACTED NATIVE MATERIAL		3" A.C. or 6" A.B.
2" A.C. or 6" A.B. OVER COMPACTED NATIVE MATERIAL		2" A.C. OVER 5" A.B. or 10" A.B.
1.5" A.C. or 4" A.B. Over COMPACTED NATIVE MATERIAL		2" A.C. OVER 3.5" A.B. or 8" A.B.

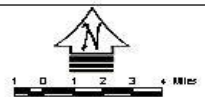
A.C. = ASPHALTIC CONCRETE    A.B. = AGGREGATE BASE CL. 2



Fire Apparatus Access Road Zones

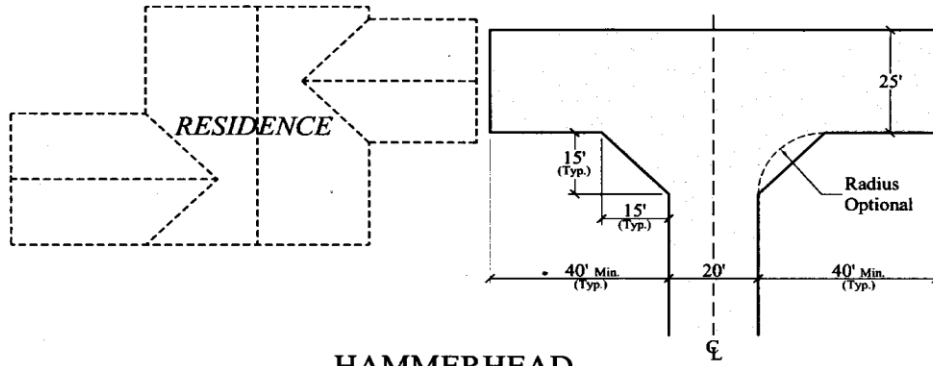
San Joaquin County Geographical Information Systems  
 210 East Hamilton Avenue, Stockton, CA 95216

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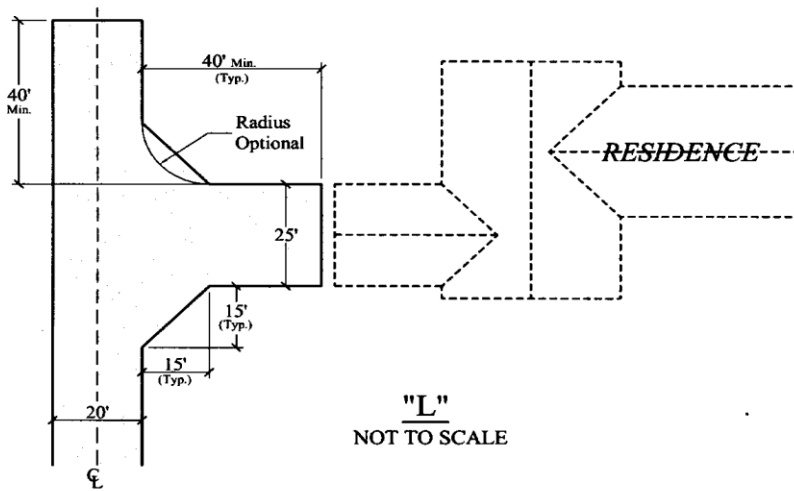


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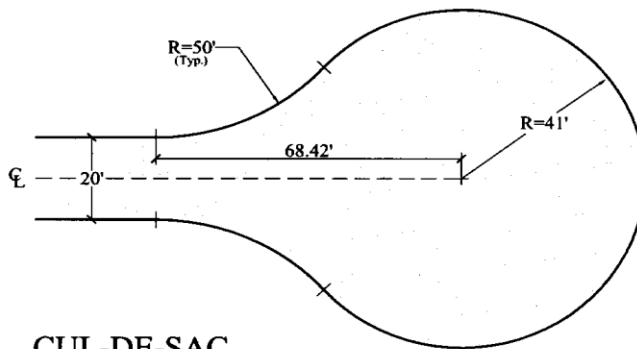
EXHIBIT "D"



**HAMMERHEAD**  
NOT TO SCALE



**"L"**  
NOT TO SCALE



**CUL-DE-SAC**  
NOT TO SCALE

**Fire Apparatus Access Road Turnaround Details**

**EXHIBIT "E"**  
**FIRE DISTRICT INFORMATION**

<b>Fire District</b>	<b>Address</b>	<b>Phone</b>
Clements	18901 E. State Route 88 PO Box 523 Clements, CA 95227	759-3371
Collegeville (City of Stockton) <sup>1</sup>	13225 E. Mariposa Rd. Stockton, CA 95215	941-2339
Eastside (City of Stockton) <sup>1</sup>	345 N. El Dorado Stockton, CA 95202	937-8271
Escalon	1749 Coley Ave. Escalon, CA 95320	838-7500
Farmington	25474 E. State Route 4 PO Box 25 Farmington, CA 95230	886-5321
French Camp-McKinley	310 E. French Camp Rd. PO Box 790 French Camp, CA 95231	982-0592
Liberty Fire District	24124 N. Bruella Rd. Acampo, CA 95330	339-1329
Lincoln (City of Stockton) <sup>1</sup>	345 N. El Dorado Stockton, CA 95202	937-8271
Linden-Peters	17725 E. State Route 26 Linden, CA 95236	887-3710
Lathrop-Manteca	800 East. J St. Lathrop, CA 95330	858-2331
Mokelumne	13157 E. Brandt Rd. Lockeford, CA 95237	727-0564
Montezuma	2405 South B St. Stockton CA 95206	464-5234
Ripon	142 S. Stockton Ave. Ripon, CA 95366-2759	599-4209
Thornton	25999 N. Thornton Rd. PO Box 78 Thornton, CA 95686	794-2460
Tracy	333 Civic Center Plaza Tracy, CA 95376	831-6444
Tuxedo-Country Club (City of Stockton) <sup>1</sup>	345 N. El Dorado Stockton, CA 95202	937-8271
Waterloo Morada	6925 E. Foppiano Ln. Stockton, CA 95212	931-3107
Woodbridge	400 E. Augusta Woodbridge, CA 95258	369-1945

1. Fire Apparatus Access Roads approved through City of Stockton Fire Department, 345 N. El Dorado Ave., Stockton CA 95202

**San Joaquin County Community Development Department**  
**Fire Prevention Bureau**  
**1810 E. Hazelton Avenue**  
**Stockton, Ca. 95205-6232**  
**209-468-3380**