

BOARD OF FORESTRY AND FIRE PROTECTION

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Date

RE: Board of Forestry and Fire Protection Regulatory Update and 4290 Certification

Section 4290 of the Public Resources Code requires the Board of Forestry and Fire Protection (Board) to “adopt regulations implementing minimum fire safety standards related to defensible space which are applicable to state responsibility area lands under the authority of the department.” This statute is further clarified and made specific in regulation in Title 14, the Natural Resources Division of the California Code of Regulations.

At their regularly scheduled meeting on March 4, 2015, the Board adopted amendments to these regulations governing fire safe development in the State Responsibility Area (SRA). These amendments were the result of over two years of testing and research by a workgroup of CAL FIRE and local agency land use planning specialists. This workgroup evaluated each regulation found in Title 14, Division 1.5, Chapter 7 Fire Protection, Subchapter 2 SRA Fire Safe Regulations (14 CCR §1270 et seq) against several criteria, including:

- Is the intent of this regulation clear?
- Does the existing language make a clear nexus between the intent and the requirements of the regulation?
- Do the requirements in each regulation meet the practical needs of modern firefighting apparatus?
- Have reports from field implementation of these regulations indicated confusion or noncompliance?

Beginning with 14 CCR § 1273.01, the workgroup made changes to sixteen sections, listed below, in order to better address the above issues. These changes, as adopted by the Board, were approved by the Office of Administrative Law on April 27, 2015 and *will become effective on January 1, 2016*. The rulemaking file with the additions and deletions to the regulations can be found on the Board’s Regulations site (<http://bofdata.fire.ca.gov/regulations/>) under “2015 Approved Regulations.” On January 1, 2016, any certifications issued by the Board of Forestry and Fire Protection for county ordinances that met or exceeded the former regulations shall be invalid.

The amended regulations are:

§ 1273.01 Road Width

§ 1273.02 Roadway Surface

§ 1273.05 Roadway Turnarounds

- § 1273.06 Roadway Turnouts
- § 1273.07 Roadway Structures
- § 1273.08 One-Way Roads
- § 1273.10 Driveways
- § 1273.11 Gate Entrances
- § 1274.01 Size of Letters, Numbers, and Symbols for Street and Road Signs
- § 1274.09 Size of Letters, Numbers, and Symbols for Addresses
- § 1275.00 Intent
- § 1275.01 Application
- § 1275.10 General Standards
- § 1275.15 Hydrant/Fire Valve
- § 1276.00 Intent
- § 1276.03 Greenbelts

Counties wishing to re-certify their local ordinances must send to the Board their new ordinances and/or codes as adopted by the County Board of Supervisors. A cover letter should request certification of those ordinances/codes under 14 CCR § 1270.03 and provide a point of contact from the relevant County department who can discuss the ordinances with Board staff. Once the local ordinances are certified by the Board, they can be used in lieu of the state regulations in the State Responsibility Area. However, CAL FIRE does not abrogate its authority to enforce the state regulations even where local ordinances have been certified.

For reference, the complete regulatory text in 14 CCR Subchapter 2 as effective January 1, 2016 is enclosed with this mailing. Enclosed is also a matrix utilized by Board staff during the certification process that may be used by counties in assessing whether their ordinances meet or exceed the regulations. These resources are also available online at the Board website: http://bofdata.fire.ca.gov/board_joint_policies/local_government/.

For further information, clarification, or assistance, please contact Board staffer Edith Hannigan at (916) 653-2928 or edith.hannigan@bof.ca.gov. Thank you for your efforts in protecting the people, property, and natural resources of your County from wildfire.

Sincerely,



J. Keith Gillless
Chair, Board of Forestry and Fire Protection

Attachments: Subchapter 2 language, Review matrix
CCs: CAL FIRE Units

CALIFORNIA BOARD OF FORESTRY AND FIRE PROTECTION

SRA FIRE SAFE REGULATIONS



As of January 1, 2016

California Code of Regulations

Title 14 Natural Resources

Division 1.5 Department of Forestry

Chapter 7 - Fire Protection

Subchapter 2 SRA Fire Safe Regulations

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Authority cited

NOTE: Authority cited: Section 4290, Public Resources Code. Reference: Sections 4290 and 4291, Public Resources Code.

History

1. New sections filed 5/30/91; operative 5/30/91 pursuant to Government Code section 11346.2(d) (Register 91, No.27)
2. Amendments filed 1-31-2013; operative 4-1-2013 (Register 2013, No. 5)
3. Amendments filed 4-27-2015; operative 1-1-2016 (Register 2015, No. 18)

ARTICLE 1. ADMINISTRATION

- § 1270.00. Title
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1270.00. Title

These regulations shall be known as "SRA Fire Safe Regulations," and shall constitute the basic wildland fire protection standards of the California Board of Forestry.

1270.01. Purpose

These regulations have been prepared and adopted for the purpose of establishing minimum wildfire protection standards in conjunction with building, construction and development in SRA. A local jurisdiction may petition the Board for certification pursuant to section 1270.03. Where Board certification has not been granted, these regulations shall become effective September 1, 1991. The future design and construction of structures, subdivisions and developments in State Responsibility Area (SRA) shall provide for basic emergency access and perimeter wildfire protection measures as specified in the following articles. These measures shall provide for emergency access; signing and building numbering; private water supply reserves for emergency fire use; and vegetation modification. The fire protection standards which follow shall specify the minimums for such measures.

1270.02. Scope

(a) These regulations shall apply to:

- (1) the perimeters and access to all residential, commercial, and industrial building construction within SRA approved after January 1, 1991 except as set forth below in subsection b.);
- (2) all tentative and parcel maps or other developments approved after January 1, 1991; and
- (3) applications for building permits on a parcel approved in a pre-1991 parcel or tentative map to the extent that conditions relating to the perimeters and access to the buildings were not imposed as part of the approval of the parcel or tentative map.

(b) These regulations do not apply where an application for a building permit is filed after January 1, 1991 for building construction on a parcel that was formed from a parcel map or tentative map (if the final map for the tentative map is approved within the time prescribed by the local ordinance) approved prior to January 1, 1991, to the extent that conditions relating to the perimeters and access to the buildings were imposed by the parcel map or final tentative map approved prior to January 1, 1991.

(c) Affected activities include, but are not limited to:

- (1) permitting or approval of new parcels, excluding lot line adjustments as specified in Government Code (GC) section 66412(d),
- (2) application for a building permit for new construction, not relating to an existing structure,
- (3) application for a use permit,
- (4) the siting of manufactured homes (manufactured homes are as defined by the National Fire Protection Association, National Fire Code, section 501A, Standard for Fire Safety Criteria for Manufactured Home Installations, Sites and Communities, chapter 1, section 1-2, Definitions, page 4, 1987 edition and Health and Safety Code sections 18007, 18008, and 19971).
- (5) road construction, including construction of a road that does not currently exist, or extension of an existing road.

(d) EXEMPTION: Roads used solely for agricultural or mining use and roads used solely for the management and harvesting of wood products.

1270.03. Local Ordinances

Nothing contained in these regulations shall be considered as abrogating the provisions of any ordinance, rule or regulation of any state or local jurisdiction providing such ordinance, rule, regulation or general plan element is equal to or more stringent than these minimum standards. The Board may certify local ordinances as equaling or exceeding these regulations when they provide the same practical effect. The Board's certification of local ordinances pursuant to this section is rendered invalid when previously certified ordinances are subsequently amended by local jurisdictions without Board re-certification of the amended ordinances. The Board's regulations supersede the amended local ordinance(s) when the amended local ordinance(s) are not re-certified by the Board. Amendments made by local jurisdictions to previously certified ordinances shall be re-certified as described in 14 CCR §§ 1270.01 and 1270.03.

1270.04. Provisions for Application of these Regulations

This subchapter shall be applied as follows:

- (a) local jurisdictions shall provide the Director with notice of applications for building permits, tentative parcel maps, tentative maps, and use permits for construction or development within SRA.
- (b) the Director shall review and make fire protection recommendations on applicable construction or development or maps provided by the local jurisdiction.
- (c) the local jurisdiction shall ensure that the applicable sections of this subchapter become a condition of approval of any applicable construction of development permit or map.

1270.05. Inspection Authority

- (a) Inspection shall be made pursuant to section 1270.06 by:
 - (1) the Director, or
 - (2) local jurisdictions that have assumed state fire protection responsibility on SRA lands, or
 - (3) local jurisdictions where these regulations have been incorporated verbatim into that jurisdiction's building permit or subdivision approval process and the inspection duties have been formally delegated by CAL FIRE to the local jurisdiction, or
 - (4) local jurisdictions where the local ordinances have been certified pursuant to 14 CCR §§ 1270.01 and 1270.03 and the inspection duties have been formally delegated by CAL FIRE to the local jurisdiction.
- (b) Nothing in this section abrogates CAL FIRE's authority to inspect and enforce state forest and fire laws even when the inspection duties have been delegated pursuant to this section.
- (c) Reports of violations shall be provided to the CAL FIRE Unit headquarters that administers SRA fire protection in the local jurisdiction.

1270.06. Inspections

The inspection entity listed in 14 CCR 1270.05 may inspect for compliance with these regulations. When inspections are conducted, they should occur prior to: the issuance of the use permit; certificate of occupancy; the recordation of the parcel map or final map; the filing of a notice of completion; or the final inspection of any project or building permit.

1270.07. Exceptions to Standards

Upon request by the applicant, exceptions to standards within this subchapter or local jurisdiction certified ordinances may be allowed by the inspection entity listed in 14 CCR 1270.05, where the exceptions provide the same overall practical effect as these regulations towards providing defensible space. Exceptions granted by the inspection entity listed in 14 CCR 1270.05 shall be made on a case-by-case basis only. Exceptions granted by the inspection entity listed in 14 CCR 1270.05 shall be forwarded to the appropriate CAL FIRE Unit Office that administers SRA fire protection in that county and shall be retained on file at the Unit Office.

1270.08. Request for Exceptions

Requests for an exception shall be made in writing to the inspection entity listed in 14 CCR 1270.05 by the applicant or the applicant's authorized representative. The request shall state the specific section(s) for which an exception is requested, material facts supporting the contention of the applicant, the details of the exception proposed, and a map showing the proposed location and siting of the exception.

1270.09. Appeals

Where an exception is not granted by the inspection authority, the applicant may appeal such denial to the local jurisdiction. The local jurisdiction may establish or utilize an appeal process consistent with existing local building or planning department appeal processes.

Before the local jurisdiction makes a determination on an appeal, the inspection authority shall be consulted and shall provide to that local jurisdiction documentation outlining the effects of the requested exception on wildland fire protection.

If an appeal is granted, the local jurisdiction shall make findings that the decision meets the intent of providing defensible space consistent with these regulations. Such findings shall include a statement of reasons for the decision. A written copy of these findings shall be provided to the CAL FIRE Unit headquarters that administers SRA fire protection in that local jurisdiction.

1271.00. Definitions

Accessory building: Any building used as an accessory to residential, commercial, recreational, industrial, or educational purposes as defined in the California Building Code, 1989 Amendments, Chapter 11, Group M, Division 1 Occupancy that requires a building permit.

Agriculture: Land used for agricultural purposes as defined in a local jurisdiction's zoning ordinances.

Building: Any structure used or intended for supporting or sheltering any use of occupancy that is defined in the California Building Code, 1989 Amendments, Chapter 11, except Group M, Division 1, Occupancy. For the purposes of this subchapter, building includes mobile homes and manufactured homes, churches, and day care facilities.

CDF: California Department of Forestry and Fire Protection.

Dead-end road: A road that has only one point of vehicular ingress/egress, including cul-de-sacs and looped roads.

Defensible space: The area within the perimeter of a parcel, development, neighborhood or community where basic wildland fire protection practices and measures are implemented, providing the key point of defense from an

approaching wildfire or defense against encroaching wildfires or escaping structure fires. The perimeter as used in this regulation is the area encompassing the parcel or parcels proposed for construction and/or development, excluding the physical structure itself. The area is characterized by the establishment and maintenance of emergency vehicle access, emergency water reserves, street names and building identification, and fuel modification measures.

Development: As defined in Section 66418.1 of the California Government Code.

Director: Director of the Department of Forestry and Fire Protection or his/her designee.

Driveway: A vehicular access that serves no more than two buildings, with no more than three dwelling units on a single parcel, and any number of accessory buildings.

Dwelling unit: Any building or portion thereof which contains living facilities, including provisions for sleeping, eating, cooking and/or sanitation for not more than one family.

Exception: An alternative to the specified standard requested by the applicant that may be necessary due to health, safety, environmental conditions, physical site limitations or other limiting conditions such as recorded historical sites, that provide mitigation of the problem.

Fire valve: See hydrant.

Fuel modification area: An area where the volume of flammable vegetation has been reduced, providing reduced fire intensity and duration.

Greenbelts: A facility or land-use, designed for a use other than fire protection, which will slow or resist the spread of a wildfire. Includes parking lots, irrigated or landscaped areas, golf courses, parks, playgrounds, maintained vineyards, orchards or annual crops that do not cure in the field.

Hammerhead/T: A roadway that provides a "T" shaped, three-point turnaround space for emergency equipment, being no narrower than the road that serves it.

Hydrant: A valved connection on a water supply/storage system, having at least one 2 1/2 inch outlet, with male American National Fire Hose Screw Threads (NH) used to supply fire apparatus and hoses with water.

Local Jurisdiction: Any county, city/county agency or department, or any locally authorized district that issues or approves building permits, use permits, tentative maps or tentative parcel maps, or has authority to regulate development and construction activity.

Occupancy: The purpose for which a building, or part thereof, is used or intended to be used.

One-way road: A minimum of one traffic lane width designed for traffic flow in one direction only.

Roads, streets, private lanes: Vehicular access to more than one parcel; access to any industrial or commercial occupancy; or vehicular access to a single parcel with more than two buildings or four or more dwelling units.

Roadway: Any surface designed, improved, or ordinarily used for vehicle travel.

Roadway structures: Bridges, culverts, and other appurtenant structures which supplement the roadway bed or shoulders.

Same Practical Effect: As used in this subchapter means an exception or alternative with the capability of applying accepted wildland fire suppression strategies and tactics, and provisions for fire fighter safety, including:

- (a) access for emergency wildland fire equipment,
- (b) safe civilian evacuation,
- (c) signing that avoids delays in emergency equipment response,
- (d) available and accessible water to effectively attack wildfire or defend a structure from wildfire, and
- (e) fuel modification sufficient for civilian and fire fighter safety.

State Board of Forestry (SBOF): A nine member board, appointed by the Governor, which is responsible for developing the general forest policy of the state, for determining the guidance policies of the Department of Forestry and Fire Protection, and for representing the state's interest in federal land in California.

State Responsibility Area (SRA): As defined in the Public Resources Code section 4126-4127; and the California Code of Regulations, Title 14, Division 1.5, Chapter 7, Article 1, Sections 1220-1220.5.

Structure: That which is built or constructed, an edifice or building of any kind, or any piece of work artificially built up or composed of parts joined together in some definite manner.

Subdivision: As defined in Section 66424 of the Government Code.

Traffic lane: The portion of a roadway that provides a single line of vehicle travel.

Turnaround: A roadway, unobstructed by parking, which allows for a safe opposite change of direction for emergency equipment. Design of such area may be a hammerhead/T or terminus bulb.

Turnouts: A widening in a roadway to allow vehicles to pass.

Vertical clearance: The minimum specified height of a bridge or overhead projection above the roadway.

Wildfire: As defined in Public Resources Code Section 4103 and 4104.

1271.05. Distance Measurements

All specified or referenced distances are measured along the ground, unless otherwise stated.

1272.00. Maintenance of Defensible Space Measures

To ensure continued maintenance of properties in conformance with these standards and measures and to assure continue availability, access, and utilization of the defensible space provided for these standards during a wildfire, provisions for annual maintenance shall be included in the development plans and/or shall be provided as a condition of the permit, parcel or map approval.

ARTICLE 2. EMERGENCY ACCESS AND EGRESS

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1273.00. Intent

Road and street networks, whether public or private, unless exempted under section 1270.02(e), shall provide for safe access for emergency wildland fire equipment and civilian evacuation concurrently, and shall provide unobstructed traffic circulation during a wildfire emergency consistent with Sections 1273.00 through 1273.11.

1273.01. Road Width

All roads shall be constructed to provide a minimum of two ten (10) foot traffic lanes, not including shoulder and

striping. These traffic lanes shall provide for two-way traffic flow to support emergency vehicle and civilian egress, unless other standards are provided in this article, or additional requirements are mandated by local jurisdictions or local subdivision requirements.

1273.02. Roadway Surface

Roadways shall be designed and maintained to support the imposed load of fire apparatus weighing at least 75,000 pounds and provide an aggregate base. Project proponent shall provide engineering specifications to support design, if requested by the local authority having jurisdiction.

1273.03. Roadway Grades

The grade for all roads, streets, private lanes and driveways shall not exceed 16 percent.

1273.04. Roadway Radius

(a) No roadway shall have a horizontal inside radius of curvature of less than 50 feet and additional surface width of 4 feet shall be added to curves of 50-100 feet radius; 2 feet to those from 100-200 feet.

(b) The length of vertical curves in roadways, exclusive of gutters, ditches, and drainage structures designed to hold or divert water, shall be not less than 100 feet.

1273.05. Roadway Turnarounds

Turnarounds are required on driveways and dead-end roads. The minimum turning radius for a turnaround shall be forty (40) feet, not including parking, in accordance with the following figure. If a hammerhead/T is used instead, the top of the "T" shall be a minimum of sixty (60) feet in length.

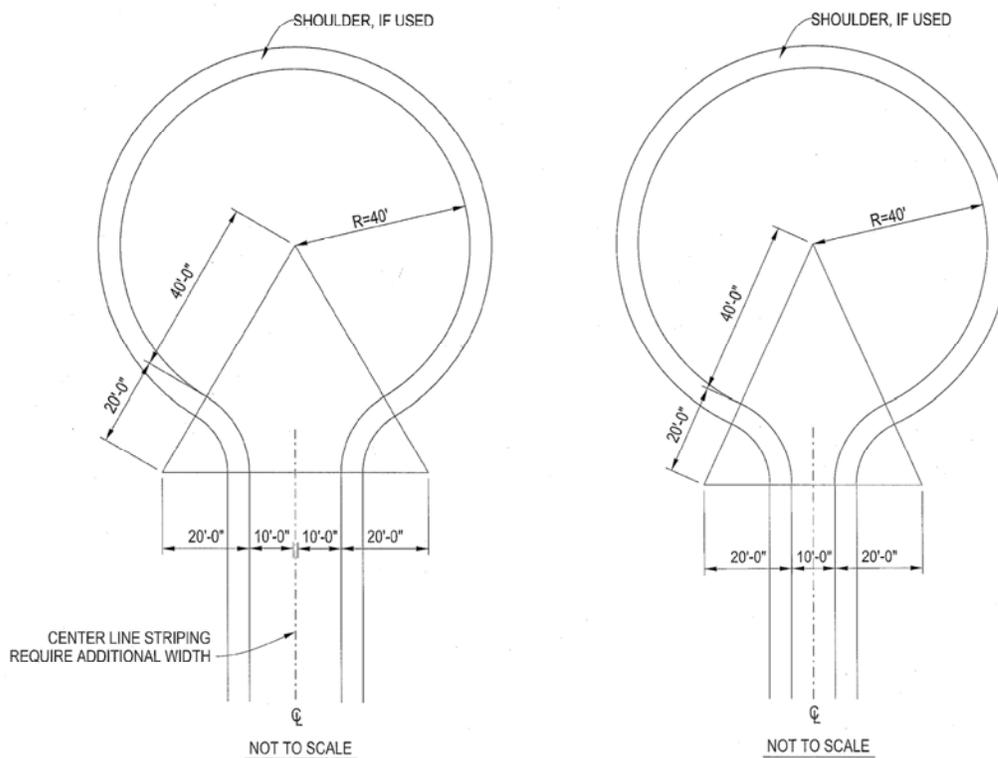


FIGURE FOR 14 CCR § 1273.05. TURNAROUND EXAMPLES

1273.06. Roadway Turnouts

Turnouts shall be a minimum of twelve (12) feet wide and thirty (30) feet long with a minimum twenty-five (25) foot taper on each end.

1273.07. Roadway Structures

(a) All driveway, road, street, and private lane roadway structures shall be constructed to carry at least the maximum load and provide the minimum vertical clearance as required by Vehicle Code Sections 35250, 35550, and 35750.

(b) Appropriate signing, including but not limited to weight or vertical clearance limitations, one-way road or single lane conditions, shall reflect the capability of each bridge.

(c) Where a bridge or an elevated surface is part of a fire apparatus access road, the bridge shall be constructed and maintained in accordance with the American Association of State and Highway Transportation Officials Standard Specifications for Highway Bridges, 17th Edition, published 2002 (known as AASHTO HB-17), hereby incorporated by reference. Bridges and elevated surfaces shall be designed for a live load sufficient to carry the imposed loads of fire apparatus. Vehicle load limits shall be posted at both entrances to bridges when required by the local authority having jurisdiction. Where elevated surfaces designed for emergency vehicle use are adjacent to surfaces which are not designed for such use, barriers, or signs, or both, as approved by the local authority having jurisdiction, shall be installed and maintained. A bridge with only one traffic lane may be authorized by the local jurisdiction; however, it shall provide for unobstructed visibility from one end to the other and turnouts at both ends.

1273.08. One-Way Roads

All one-way roads shall be constructed to provide a minimum, not including shoulders, of one twelve (12) foot traffic lane. The local jurisdiction may approve one-way roads. All one-way roads shall connect to a two-lane roadway at both ends, and shall provide access to an area currently zoned for no more than ten (10) dwelling units. In no case shall it exceed 2,640 feet in length. A turnout shall be placed and constructed at approximately the midpoint of each one-way road.

1273.09. Dead-End Roads

(a) The maximum length of a dead-end road, including all dead-end roads accessed from the dead-end road, shall not exceed the following cumulative lengths, regardless of the numbers of parcels served:

parcels zoned for less than one acre – 800 feet
parcels zoned for 1 acre to 4.99 acres – 1320 feet
parcels zoned for 5 acres to 19.99 acres – 2640 feet
parcels zoned for 20 acres or larger – 5280 feet

All lengths shall be measured from the edge of the roadway surface at the intersection that begins the road to the end of the road surface at the intersection that begins the road to the end of the road surface at its farthest point. Where a dead-end road crosses areas of differing zoned parcel sizes, requiring different length limits, the shortest allowable length shall apply.

(b) Where parcels are zoned 5 acres or larger, turnarounds shall be provided at a maximum of 1320 foot intervals.

(c) Each dead-end road shall have a turnaround constructed at its terminus.

1273.10. Driveways

(a) All driveways shall be constructed to provide a minimum of one (1) ten (10) foot traffic lane and fourteen (14) feet unobstructed horizontal clearance and unobstructed vertical clearance of fifteen (15) feet.

(b) Driveways exceeding 150 feet in length, but less than 800 feet in length, shall provide a turnout near the

midpoint of the driveway. Where the driveway exceeds 800 feet, turnouts shall be provided no more than 400 feet apart.

(c) A turnaround shall be provided to all building sites on driveways over 300 feet in length, and shall be within fifty (50) feet of the building.

1273.11. Gate Entrance

(a) Gate entrances shall be at least two (2) feet wider than the width of the traffic lane(s) serving that gate and a minimum width of fourteen (14) feet unobstructed horizontal clearance and unobstructed vertical clearance of fifteen (15) feet.

(b) All gates providing access from a road to a driveway shall be located at least thirty (30) feet from the roadway and shall open to allow a vehicle to stop without obstructing traffic on that road.

(c) Security gates shall not be installed without approval and where security gates are installed, they shall have an approved means of emergency operation. Approval shall be by the local authority having jurisdiction. The security gates and the emergency operation shall be maintained operational at all times.

(d) Where a one-way road with a single traffic lane provides access to a gated entrance, a forty (40) foot turning radius shall be used.

ARTICLE 3. SIGNING AND BUILDING NUMBERING

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- § 1274.08. Addresses for Buildings
- § 1274.09. Size of Letters, Numbers and Symbols for Addresses
- § 1274.10. Installation, Location and Visibility of Addresses

1274.00. Intent

To facilitate locating a fire and to avoid delays in response, all newly constructed or approved roads, street, and buildings shall be designated by names or numbers, posted on signs clearly visible and legible from the roadway. This section shall not restrict the size of letters or numbers appearing on street signs for other purposes.

1274.01. Size of Letters, Numbers and Symbols for Street and Roads Signs

Size of letters, numbers, and symbols for street and road signs shall be a minimum 4 inch letter height, .5 inch stroke, reflectorized, contrasting with the background color of the sign.

1274.02. Visibility and Legibility of Street and Road Signs

Street and road signs shall be visible and legible from both directions of vehicle travel for a distance of at least 100 feet.

1274.03. Height of Street and Road Signs

Height of street and road signs shall be uniform county wide, and meet the visibility and legibility standards of this article.

1274.04. Names and Numbers on Street and Road Signs

Newly constructed or approved public and private roads and streets must be identified by a name or number through a consistent countywide system that provides for sequenced or patterned numbering and/or non-duplicating naming within each county. All signs shall be mounted and oriented in a uniform manner. This section does not require any entity to rename or renumber existing roads or streets, nor shall a roadway providing access only to a single commercial or industrial occupancy require naming or numbering.

1274.05. Intersecting Roads, Streets and Private Lanes

Signs required by this article identifying intersecting roads, streets and private lanes shall be placed at the intersection of those roads, streets, and/or private lanes.

1274.06. Signs Identifying Traffic Access Limitations

A sign identifying traffic access or flow limitations, including but not limited to weight or vertical clearance limitations, dead-end road, one-way road or single lane conditions, shall be placed:

- (a) at the intersection preceding the traffic access limitation, and
- (b) no more than 100 feet before such traffic access limitation.

1274.07. Installation of Road, Street and Private Lane Signs

Road, street and private lane signs required by this article shall be installed prior to final acceptance by the local jurisdiction of road improvements.

1274.08. Addresses for Buildings

All buildings shall be issued an address by the local jurisdiction which conforms to that jurisdiction's overall address system. Accessory buildings will not be required to have a separate address; however, each dwelling unit within a building shall be separately identified.

1274.09. Size of Letters, Numbers and Symbols for Addresses

Size of letters, numbers and symbols for addresses shall be a minimum 4 inch letter height, .5 inch stroke, reflectorized, contrasting with the background color of the sign.

Address identification shall be plainly legible and visible from the street or road fronting the property. Addresses shall be Arabic numbers or alphabetical letters. Where access is by means of a private road and the address identification cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the address.

1274.10. Installation, Location and Visibility of Addresses

(a) All buildings shall have a permanently posted address, which shall be placed at each driveway entrance and visible from both directions of travel along the road. In all cases, the address shall be posted at the beginning of construction and shall be maintained thereafter, and the address shall be visible and legible from the road on which the address is located.

(b) Address signs along one-way roads shall be visible from both the intended direction of travel and the opposite direction.

(c) Where multiple addresses are required at a single driveway, they shall be mounted on a single post.

(d) Where a roadway provides access solely to a single commercial or industrial business, the address sign shall be placed at the nearest road intersection providing access to that site.

ARTICLE 4. EMERGENCY WATER STANDARDS

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- § 1275.20 Signing of Water Sources

1275.00. Intent

Emergency water for wildfire protection shall be available, accessible, and maintained in quantities and locations specified in the statute and these regulations, in order to attack a wildfire or defend property from a wildfire.

1275.01. Application

The provisions of this article shall apply in the tentative and parcel map process when new parcels are approved by the local jurisdiction having authority. When a water supply for structure defense is required to be installed, such protection shall be installed and made serviceable prior to and during the time of construction except when alternative methods of protection are provided and approved by the local authority having jurisdiction.

1275.10. General Standards

Water systems that comply with the below standard or standards meet or exceed the intent of these regulations. Water systems equaling or exceeding the National Fire Protection Association (NFPA) 1142, "Standard on Water Supplies for Suburban and Rural Fire Fighting," 2012 Edition, hereby incorporated by reference, and California Fire Code, California Code of Regulations title 24, part 9, shall be accepted as meeting the requirements of this article. Such emergency water may be provided in a fire agency mobile water tender, or naturally occurring or man made containment structure, as long as the specified quantity is immediately available. Nothing in this article prohibits the combined storage of emergency wildfire and structural firefighting water supplies unless so prohibited by local ordinance or specified by the local fire agency. Where freeze protection is required by local jurisdictions having authority, such protection measures shall be provided.

1275.15. Hydrant/Fire Valve

(a) The hydrant or fire valve shall be eighteen (18) inches above grade, eight (8) feet from flammable vegetation, no closer than four (4) feet nor farther than twelve (12) feet from a roadway, and in a location where fire apparatus using it will not block the roadway.

The hydrant serving any building shall:

- (1) be not less than fifty (50) feet nor more than 1/2 mile by road from the building it is to serve, and
- (2) be located at a turnout or turnaround, along the driveway to that building or along the road that intersects with that driveway.

(b) The hydrant head shall be 2 1/2 inch National Hose male thread with cap for pressure and gravity flow systems and 4 1/2 inch draft systems. Such hydrants shall be wet or dry barrel as required by the delivery system. They shall have suitable crash protection as required by the local jurisdiction.

1275.20 Signing of Water Sources

Each hydrant/fire valve or access to water shall be identified as follows:

(a) If located along a driveway, a reflectorized blue marker, with a minimum dimension of 3 inches shall be located on the driveway address sign and mounted on a fire retardant post, or

(b) If located along a street or road,

- (1) a reflectorized blue marker, with a minimum dimension of 3 inches, shall be mounted on a fire retardant post. The sign post shall be within 3 feet of said hydrant/fire valve, with the sign no less than 3 feet nor greater than 5 feet above ground, in a horizontal position and visible from the driveway, or
- (2) as specified in the State Fire Marshal's Guidelines for Fire Hydrant Markings Along State Highways and Freeways, May 1988.

ARTICLE 5. FUEL MODIFICATION STANDARDS

- § 1276.00. Intent
- § 1276.01. Setback for Structure Defensible Space
- § 1276.02. Disposal of Flammable Vegetation and Fuels
- § 1276.03. Greenbelts

1276.00 Intent

To reduce the intensity of a wildfire by reducing the volume and density of flammable vegetation, the strategic siting of fuel modification and greenbelt shall provide

- (1) increased safety for emergency fire equipment and evacuating civilians by its utilization around structures and roads, including driveways; and
- (2) a point of attack or defense from a wildfire.

1276.01 Setback for Structure Defensible Space

- (a) All parcels 1 acre and larger shall provide a minimum 30 foot setback for buildings and accessory buildings from all property lines and/or the center of the road.
- (b) For parcels less than 1 acre, the local jurisdiction shall provide for the same practical effect.

1276.02 Disposal of Flammable Vegetation and Fuels

Disposal, including chipping, burying, burning or removal to a landfill site approved by the local jurisdiction, of flammable vegetation and fuels caused by site development and construction, road and driveway construction, and fuel modification shall be completed prior to completion of road construction or final inspection of a building permit.

1276.03 Greenbelts

Subdivision and other developments, which propose greenbelts as a part of the development plan, shall locate said greenbelts strategically, as a separation between wildland fuels and structures. The locations shall be approved by the local authority having jurisdiction and may be consistent with the CAL FIRE Unit Fire Management Plan or Contract County Fire Plan.

**California Board of Forestry and Fire Protection
SRA Fire Safe Regulations
Certification Matrix**



Without an accompanying letter from the Board of Forestry and Fire Protection, completion of this matrix does not indicate Board certification approval or denial of submitted local ordinances under 14 CCR § 1270.03. This matrix does not reflect the full text of the regulations and should be used as a guide only.

<i>Internal Use Only</i>			
Jurisdiction	Date Received	Board Meeting Date	Board Action

CCR Title 14 SRA Fire Safe Regulations	Local Ordinance	Meets or Exceeds
Sec. 1270 Title <i>Statement of the title of regulation</i>		
Sec. 1270.01 Purpose <i>Statement of the purpose of regulation</i>		
Sec. 1270.02 Scope <i>Statement of the scope of regulation</i>		
Sec. 1270.03 Local Ordinances <i>Board may certify local ordinances</i>		
Sec. 1270.04 Provisions for Application of These Regulations <i>How these regulations will be applied</i>		
Sec. 1270.05 Inspection Authority <i>Establishing responsibility for enforcement</i>		
Sec. 1270.06 Inspections <i>Authorization to conduct inspections</i>		
Sec. 1270.07 Exceptions to Standards <i>Exceptions will be made on a case-by-case basis where the exception provides for same practical effect. Exceptions granted shall be forwarded to the CAL FIRE Unit Headquarters.</i>		
Sec. 1270.08 Requests for Exceptions <i>Requests shall be made in writing, stating the section(s), material facts, the exception proposed, and a map.</i>		
Sec. 1270.09 Appeals <i>Applicants may appeal exception denials. The inspection authority shall be consulted. If an appeal is granted, findings must be made and forwarded to CAL FIRE Unit HQ.</i>		
Sec. 1271.00 Definitions <i>Definitions</i>		
Sec. 1271.05 Distance Measurements <i>Distance measurements are along the ground.</i>		
Sec. 1272.00 Maintenance of Defensible Space		

CCR Title 14 SRA Fire Safe Regulations	Local Ordinance	Meets or Exceeds
Measures <i>Defensible space maintenance plans shall be provided.</i>		
Sec. 1273.00 Intent <i>Unobstructed traffic circulation during a wildfire emergency and concurrent fire equipment and civilian movement.</i>		
Sec. 1273.01 Road Width <i>Roads shall have a minimum of two 10-foot traffic lanes, not including shoulder and striping.</i>		
Sec. 1273.02 Roadway Surface <i>Designed and maintained to support the imposed load of fire apparatus weighing at least 75,000 pounds; provide an all-weather aggregate base; project proponent shall provide engineering specifications to support design if requested.</i>		
Sec. 1273.03 Roadway Grades <i>The grade of roads shall not exceed 16%.</i>		
Sec. 1273.04 Roadway Radius <i>Horizontal inside turning radius minimum 50 feet; additional 4 foot with added to curves of 50 to 100 foot radius; additional 2 feet shall be added to curves from 100 to 200 feet. Vertical curves no less than 100 feet.</i>		
Sec. 1273.05 Roadway Turnarounds <i>Required on driveways and dead-end roads. Minimum turning radius shall be 40 feet, not including parking. The top of the "T" in a hammerhead/T turnaround shall be 60 feet.</i>		
Sec. 1273.06 Roadway Turnouts <i>Shall be a minimum of 12 feet wide, 30 feet long, and a 25 foot taper at both ends.</i>		
Sec. 1273.07 Roadway Structures		

CCR Title 14 SRA Fire Safe Regulations	Local Ordinance	Meets or Exceeds
<p><i>Designed to carry maximum load according to CVC; must have signage posting maximum weight and height; constructed and maintained according to AASHTO HB-17; one-way bridges must have unobstructed visibility and turnouts each end.</i></p>		
<p>Sec. 1273.08 One-Way Roads <i>All one way roads will have a minimum 12 foot traffic lane, not including shoulders. All one-way roads shall connect a two lane roadway at both ends. Maximum access to no more than 10 dwelling units. Maximum length 2,640 feet. Turnout constructed at approximately mid-point.</i></p>		
<p>Sec. 1273.09 Dead-End Roads <i>The length of dead-end roads is limited, based upon zoning.</i> <i>-800 feet for parcel zoned for less than one acre.</i> <i>-1320 feet for parcel zoned one to five acres</i> <i>-2640 feet for parcel zoned five acres to 20 acres</i> <i>-5280 feet for parcel zoned larger than 20 acres</i></p>		
<p>Sec. 1273.10 Driveways <i>All driveways will provide a minimum 10 foot width traffic lane with a minimum width of 14 feet unobstructed horizontal clearance and vertical clearance of 15 feet. Driveways greater than 150 feet but less than 800 feet shall provide a turnout near the midpoint; turnouts every 400 feet if driveway >800 feet. A turnaround is required on all building sites with driveways over 300 feet in length, sited within 50 feet of building.</i></p>		
<p>Sec. 1273.11 Gate Entrances <i>Gates shall be at least 2 feet wider than the width of the traffic lane. Minimum width of 14 feet unobstructed horizontal clearance and 15 feet vertical clearance. All gates shall be located 30 feet</i></p>		

CCR Title 14 SRA Fire Safe Regulations	Local Ordinance	Meets or Exceeds
<p><i>from the roadway shall provide unobstructed traffic access on the roadway. Security gates shall not be installed without approval. Where a one-way road provides access to a gated entrance, a 40 foot turning radius shall be used.</i></p>		
<p>Sec. 1274.00 Intent <i>Roadways and buildings are to be clearly identified.</i></p>		
<p>Sec. 1274.01 Size of Letters, Numbers and Symbols for Street and Road Signs <i>Size of letters and numbers on street signs to be minimum 4 inch height, 0.5 inch stroke, reflectorized and contrasting with background.</i></p>		
<p>Sec. 1274.02 Visibility and Legibility of Street and Road Signs <i>Street signs to visible in both directions for a minimum distance of 100 feet.</i></p>		
<p>Sec. 1274.03 Height of Street and Road Signs <i>Height of street signs to be uniform county wide.</i></p>		
<p>Sec. 1274.04 Names and Numbers on Street and Road Signs <i>Streets to be identified in a consistent countywide system. Signs to be mounted in a uniform manner.</i></p>		
<p>Sec. 1274.05 Intersecting Roads, Streets and Private Lanes <i>Street signs shall be at provided road intersections.</i></p>		
<p>Sec. 1274.06 Signs Identifying Traffic Access Limitations <i>Shall be placed at the intersection preceding the limitation, no more than 100 feet before the limitation</i></p>		
<p>Sec. 1274.07 Installation of Road, Street and Private Lane Signs <i>Street signs shall be installed prior to final acceptance by local jurisdiction for road</i></p>		

CCR Title 14 SRA Fire Safe Regulations	Local Ordinance	Meets or Exceeds
<i>improvements.</i>		
<p>Sec. 1274.08 Addresses for Buildings <i>All buildings shall be addressed according to the jurisdiction's address system. Each dwelling unit shall be separately identified.</i></p>		
<p>Sec. 1274.09 Size of Letters, Numbers and Symbols for Addresses <i>Letter and numbers for addresses must be minimum 4 inch high, 0.5 inch stroke and contrasting background. Address shall be visible from street.</i></p>		
<p>Sec. 1274.10 Installation, Location and Visibility of Addresses <i>All buildings must be clearly identified. Shall have a permanently posted address placed at each driveway entrance, visible from both directions of travel along road. Address shall be posted during construction and maintain thereafter. Address signs along one-way road shall be visible from both intended direction of travel and opposite direction. Multiple addresses on a single driveway shall be mounted on a single post. Addresses for single commercial business shall be placed at the nearest intersection providing access to the site.</i></p>		
<p>Sec. 1275.00 Intent <i>Emergency water for wildfire protection shall be available, accessible, and maintained.</i></p>		
<p>Sec. 1275.01 Application <i>Emergency water systems shall be installed and made serviceable prior to and during the time of construction except for alternatives approved by the authority having jurisdiction.</i></p>		

CCR Title 14 SRA Fire Safe Regulations	Local Ordinance	Meets or Exceeds
<p>Sec. 1275.10 General Standards <i>System must meet or exceed NFPA 1142 and California Fire Code fire flow requirements. Water may be provided in a mobile water tender or other containment structure. Nothing prohibits the combined storage of emergency wildfire and structural firefighting water supplies unless prohibited by local ordinance. Freeze protection when required.</i></p>		
<p>Sec. 1275.15 Hydrant/Fire Valve <i>Hydrant shall be 18 inch above ground, 8 feet from vegetation, no closer than 4 feet nor farther than 12 feet from roadway, in a location where fire apparatus will not block the roadway. Hydrant servicing an a building shall be not less than 50 feet nor more than ½ mile by road from building it serves and be located at a turnaround along the driveway or road that intersects the driveway. Headed with a 2 ½ inch National Hose male thread with cap for pressure and gravity flow systems and 4 ½ inch draft system. Hydrant shall have wet or dry barrel and shall have suitable crash protection required by local jurisdiction.</i></p>		
<p>Sec. 1275.20 Signing of Water Sources <i>If located along a driveway: marked with a 3 inch reflectorized blue marker on the driveway address sign and mounted on a fire retardant post. If located on a street or road: 3 inch marker shall be mounted on a fire retardant post within 3 feet of hydrant, no less than 3 feet nor greater than 5 feet above the ground Or specified in the OSFM’s Guidelines for Fire Hydrant Markings Along State Highways and</i></p>		

CCR Title 14 SRA Fire Safe Regulations	Local Ordinance	Meets or Exceeds
<i>Freeways, May 1988.</i>		
<p>Sec. 1276.00 Intent <i>Reduce the intensity of wildfire through fuel modification for safe emergency operations and civilian evacuation and to establish a point of attack or defense from a wildfire.</i></p>		
<p>Sec. 1276.01 Setback for Structure Defensible Space <i>Parceled one acre or larger provide a minimum 30 foot setback. Parcels less than one acre, local jurisdiction shall provide same practical effect.</i></p>		
<p>Sec. 1276.02 Disposal of Flammable Vegetation and Fuels <i>Disposal of flammable vegetation and fuel modification to be done prior to final building inspection.</i></p>		
<p>Sec. 1276.03 Greenbelts <i>Subdivisions and other developments, which propose greenbelts as part of their plan, shall locate the greenbelts strategically. The locations shall be approved by the local authority having jurisdiction and may be consistent with the CAL FIRE Unit Fire Management Plan or Contract County Fire Plan.</i></p>		