

Title 14 of the California Code of Regulations (14 CCR),

Division 1.5, Chapter 7

Subchapter 2, Articles 1-5

"State Minimum Fire Safe Regulations, 2021"

Edith Hannigan 2/4/21 7:52 PM

**Comment:** We would be particularly receptive to stakeholders' feedback on anything in yellow highlight.

Subchapter 2. ~~SRA~~ State Minimum Fire Safe Regulations

Article 1. Administration

§ 1270.00. Title.

These regulations shall be known as the "~~SRA/VHFHSZ~~ State Minimum Fire Safe Regulations," and shall constitute the basic wildfire protection standards of the California Board of Forestry and Fire Protection.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4102, 4126, 4127 and 4290, Public Resources Code.

§ 1270.01. Definitions ~~Purpose~~

(a) Access: The ability or means to enter or approach the Perimeter of Building Construction subject to this Subchapter.

Access includes the Roads on a route from the nearest Collector Road to the Perimeter of the Building Construction.

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

(c) Building: Any structure used or intended for supporting or sheltering any use or occupancy, except Utility and

Edith Hannigan 2/4/21 9:12 AM

**Comment:** The definitions section has been moved and renumbered. Changes from existing text are in strikeout/underline, but in the 45-day notice all terms will be underlined pursuant to the APA.

Miscellaneous Group U buildings.

(d) Board: California Board of Forestry and Fire Protection.

(e) Building Construction: any modification to a parcel(s), Road(s), Driveway(s), or Structure(s) that increases the number of Residential Units; increases the service capacity of a commercial enterprise or commercial use; or increases the number of persons on the premises of a commercial or industrial site. Subject to the provisions of [§ 1270.03.01 \(Exemptions\)](#), [§ 1270.03.02 \(Substandard Roads\)](#), and [§ 1270.03.03 \(Aggregate Risk\)](#), "Building Construction" does not include the replacement of damaged or destroyed structures due to disaster.

(f) CAL FIRE: California Department of Forestry and Fire Protection.

(g) Collector Road: Roads identified by a local jurisdiction as a major or minor, or general, collector road in conformance with the procedures in the US Federal Highway Administration "Highway Functional Classification Concepts, Criteria, and Procedures," 2013 Edition.

(h) Dead-end ~~R~~oad: A ~~R~~oad that has only one point of vehicular ingress/egress, including cul-de-sacs and looped ~~R~~oads.

(i) Defensible ~~S~~pace: An area extending one hundred (100) feet or greater from the exterior of a building where mitigation measures have been completed and are maintained to reduce structure loss from wildfire. ~~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, road names and building identification, and fuel modification measures.~~

(j) Development: As defined in section 66418.1 of the California Government Code.

(k) Director: Director of the Department of Forestry and Fire Protection or their designee.

(l) Driveway: A vehicular access that serves up to two (2) parcels with no more than two (2) ~~Residential~~ Units and any number of non-commercial or non-industrial Utility or Miscellaneous Group U buildings on each parcel. A Driveway shall not serve commercial or industrial uses at any size or scale.

~~Distance Measurements: All specified or referenced distances are measured along the ground, unless otherwise stated.~~

(m) Exception: An alternative means or method to achieve a ~~to~~ the specified standard requested by the applicant subject to § 1270.07 (Exceptions to Standards) that may be necessary due to health, safety, environmental conditions, physical site limitations or other limiting conditions, such as recorded historical sites, that provides mitigation of the problem.

(n) Fire Apparatus: A vehicle designed to be used under

Edith Hannigan 2/7/21 4:05 PM

Comment: Moved to its own section

emergency conditions to transport personnel and equipment or to support the suppression of fires or mitigation of other hazardous situations. The fire authority identifies which Fire Apparatus will be needed during emergency conditions.

(o) Fire Hydrant: A valved connection on a water supply or storage system for the purpose of providing water for fire protection and suppression operations. Fire Hydrant outlets shall be of sizes designated by the local fire authority and shall have ~~having either one two and a half (2 1/2) inch or one four and a half (4 1/2) inch outlet,~~ with male American National Fire Hose Screw Threads (NH), ~~used to supply fire apparatus and hoses with water.~~ For the purposes of this Subchapter, this term shall be inclusive of the term "hydrant head."

(p) Fire Valve: see Fire Hydrant.

(q) Fuel Break: A strategically located area where the volume and arrangement of vegetation has been managed to limit fire intensity, fire severity, rate of spread, crown fire potential, and/or ember production.

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

(r) Greenbelts: Agricultural lands, open space, parks, wildlands, or a combination thereof, as designated by cities, counties, special districts and other jurisdictions, which surround or are adjacent to a city or urbanized area, and restrict or prohibit development. ~~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.~~

(s) Greenways: Linear open spaces or corridors that link parks and neighborhoods within a community through natural or manmade trails and paths.

(t) Hammerhead/T: A road or driveway that provides a "T" shaped, three-point turnaround space for emergency equipment, being no narrower than the ~~R~~oad that serves it.

(u) Hazardous Land Use: A land use that presents a significantly elevated potential for the ignition, prolonged duration, or increased intensity of a wildfire due to the presence of flammable materials, liquids, or gasses, or features that initiate or sustain combustion. Such uses are determined by the local jurisdiction and may include, but are not limited to, power-generation and distribution facilities, wood processing or storage sites, flammable gas or liquids processing or storage sites, or shooting ranges.

~~Hydrant: A valved connection on a water supply or storage system, having either one two and a half (2 1/2) inch or one four and a half (4 1/2) inch outlet, with male American National Fire Hose Screw Threads (NH), used to supply fire apparatus and hoses with water.~~

(v) Local Fire Authority: A fire department, agency, division,

Edith Hannigan 2/7/21 4:06 PM

Comment: Moved to "Fire Hydrant"

district, or other governmental body responsible for regulating  
and/or enforcing minimum fire safety standards applicable to  
Building Construction.

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

(x) Local Responsibility Area (LRA): Those areas of land  
classified by the Board where the financial responsibility of  
preventing and suppressing wildfires is not that of the state or  
federal government, pursuant to Public Resources Code (PRC)  
section 4125.

(y) Local Road: Roads identified by a local jurisdiction as a  
local road in conformance with the procedures in the US Federal  
Highway Administration "Highway Functional Classification  
Concepts, Criteria, and Procedures," 2013 Edition.

(z) Municipal-Type Water System: A system having water pipes  
servicing fire hydrants and designed to furnish, over and above  
domestic consumption, a minimum of 250 gpm (950 L/min) at 20 psi  
(138 kPa) residual pressure for a 2-hour duration. [NFPA 1142  
3.3.16, 2017]

(aa) Occupancy: The purpose for which a ~~b~~Building, or part  
thereof, is used or intended to be used.

(bb) One-way ~~#~~Road: A minimum of one ~~#~~Traffic ~~±~~Lane width

designed for traffic flow in one direction only.

(cc) Perimeter: The boundary of the parcel or subdivision map within which lies any Building Construction subject to this Subchapter.

(dd) Residential Unit: Any building or portion thereof which contains living facilities, including provisions for sleeping, eating, cooking and/or sanitation for one or more persons. Manufactured homes, mobilehomes, and factory-built housing are considered residential units, ~~for the purposes of mandatory measures required in 14 CCR § 1270.01(e), unless being sited or installed as an accessory or junior accessory dwelling unit in accordance with § 1270.03.01 (Exemptions).~~

(ee) Ridgeline: The line of intersection of two opposing slope aspects running parallel to the long axis of the highest elevation of land that is identified as strategically important for the protection of structures from wildfire, or the suppression of wildfire.

(ff) Road: Vehicular access to more than two (2) parcels; more than four (4) residential units; or access to any industrial or commercial ~~use occupancy~~. This is a general term inclusive of all other terms such as fire lane, public street, private street, parking lot lane, and access roadway. Includes public and private streets and lanes.

(gg) Road or Driveway Structures: Bridges, culverts, and other appurtenant structures which supplement the ~~Traffic Lane 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.~~

(hh) Shoulder: Vehicular access adjacent to the Traffic Lane.

(ii) State Responsibility Area (SRA): As defined in Public Resources Code sections 4126-4127; and the California Code of Regulations, title 14, division 1.5, chapter 7, article 1, sections 1220-1220.5.

(jj) 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.

(kk) Subdivision: As defined in section 66424 of the Government Code.

(ll) Substantial Compliance: Nearly complete satisfaction of all material requirements consistent with the purpose of the applicable State Minimum Fire Safe Regulations even though the formal requirements are not satisfied.

(mm) Substantial Evidence: Enough relevant information and



reasonable inferences from this information that a fair argument can be made to support a conclusion, in light of the whole record of evidence, even though other conclusions might also be reached. Argument, speculation, unsubstantiated opinion or narrative, or evidence which is clearly erroneous or inaccurate does not constitute substantial evidence. Substantial evidence shall include facts, reasonable assumptions predicated upon facts, and expert opinion supported by facts.

(nn) Traffic Lane: The portion of a ~~R~~oad or ~~d~~riveway that provides a single line of vehicle travel.

(oo) Turnaround: A portion of a ~~R~~oad or ~~d~~riveway, 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.

(pp) Turnouts: A widening in a ~~R~~oad or ~~d~~riveway to allow vehicles to pass.

(qq) Utility and Miscellaneous Group U building: A ~~s~~tructure of an accessory character or a miscellaneous ~~s~~tructure not classified in any specific ~~o~~ccupancy permitted, constructed, equipped, and maintained to conform to the requirements of Title 24, California Building Standards Code.

(rr) Vertical clearance: The minimum specified height of a bridge or overhead projection above the ~~R~~oad or ~~d~~riveway.

(ss) Very High Fire Hazard Severity Zone (VHFHSZ): As defined in Government Code section 51177(i).

(tt) Wildfire: As defined in Public Resources Code Section 4103

and 4104.

~~(a) These regulations have been prepared and adopted for the purpose of establishing minimum wildfire protection standards in conjunction with building, construction and development in the State Responsibility Area (SRA).~~

~~(b) The future design and construction of structures, subdivisions and developments in the SRA shall provide for basic emergency access and perimeter wildfire protection measures as specified in the following articles.~~

~~(c) 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.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1270.02. Purpose. ~~Scope~~

(a) These regulations have been prepared and adopted for the purpose of establishing minimum wildfire protection standards in conjunction with ~~building, construction and development~~ Building Construction in the State Responsibility Area (SRA) and, after July 1, 2021, the Very High Fire Hazard Severity Zones as defined in Government Code § 51177(i) (VHFHSZ).

~~(b) The future design and construction of structures, subdivisions and developments~~ Building Construction in the SRA

Edith Hannigan 2/7/21 4:24 PM

**Comment:** The Purpose section has been moved and renumbered. Changes from existing text are in strikeout/underline, but in the 45-day notice all terms will be underlined pursuant to the APA.

1 and after July 1, 2021, the VHFHSZ shall provide for basic  
2 emergency access and perimeter wildfire protection standards  
3 ~~measures~~ as specified in the following articles.

4 (c) These ~~measures~~ standards shall provide for emergency access  
5 and egress; signing and building numbering; private water supply  
6 reserves for emergency fire use; ~~and~~ vegetation modification,  
7 Fuel Breaks, Greenbelts, and measures to preserve undeveloped  
8 Ridgelines. The ~~fire protection standards~~ regulations which  
9 follow shall specify the minimums for such ~~measures~~ standards.

10 ~~(a) These regulations shall apply to:~~

11 ~~(1) the perimeters and access to all residential, commercial,~~  
12 ~~and industrial building construction within the SRA approved~~  
13 ~~after January 1, 1991 except as set forth below in subsections~~  
14 ~~(b) through (d), inclusive, and (f);~~

15 ~~(2) the siting of newly installed commercial modulars,~~  
16 ~~manufactured homes, mobilhomes, and factory built housing, as~~  
17 ~~defined in Health and Safety Code sections 18001.8, 18007,~~  
18 ~~18008, and 19971, except where being sited or installed as an~~  
19 ~~accessory or junior accessory dwelling unit as set forth in~~  
20 ~~subsection (d) below;~~

21 ~~(3) all tentative and parcel maps or other developments approved~~  
22 ~~after January 1, 1991; and~~

23 ~~(4) applications for building permits on a parcel approved in a~~  
24 ~~pre-1991 parcel or tentative map to the extent that conditions~~  
25 ~~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) (1) At the discretion of the local jurisdiction, and subject to any requirements imposed by the local jurisdiction to ensure reasonable ingress, egress, and capacity for evacuation and emergency response during a wildfire, these regulations shall not apply to the reconstruction or repair of legally constructed residential, commercial, or industrial buildings due to a wildfire, to the extent that the reconstruction or repair does not:~~

~~(A) increase the square footage of the residential, commercial, or industrial building or buildings that previously existed; or~~

~~(B) change the use of the building or buildings that had existed previously; or~~

~~(C) construct a new building or buildings that did not previously exist on the site.~~

~~(2) Nothing in this subsection shall be construed to alter the extent to which these regulations apply to the reconstruction or repair of a legally constructed residential, commercial, or~~

~~industrial building for reasons unrelated to a wildfire.~~

~~(d) These regulations do not apply to the creation of accessory or junior accessory dwelling units that comply with Government Code sections 65852.2 or 65852.22, or any local ordinances enacted thereunder, as applicable, including any local ordinances requiring provisions for fire and life safety.~~

~~(e) Unless otherwise exempt pursuant to this subchapter, 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 building construction;~~

~~(3) application for a use permit; and~~

~~(4) road construction.~~

~~(f) EXEMPTION: Roads used solely for agricultural, mining, or the management and harvesting of wood products.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1270.03. Scope. ~~Provisions for Application of The Regulations~~

(a) These regulations shall apply to:

(1) the ~~p~~Perimeters and ~~a~~Access to all residential, commercial, and industrial ~~b~~Building ~~e~~Construction within the SRA approved after January 1, 1991 and those approved after July 1, 2021 within the VHFHSZ, except as set forth below in

Edith Hannigan 2/7/21 4:27 PM

**Comment:** The "Provisions for Application..." section has been moved and renumbered. Changes from existing "Scope" text are in strikeout/underline, but in the 45-day notice all terms will be underlined pursuant to the APA.

subsections § 1271.03.01 (Exemptions); ~~(b.) through (d),~~  
~~inclusive, and (f).~~

(2) the siting of newly installed commercial modulars, manufactured homes, mobilehomes, and factory-built housing, as defined in Health and Safety Code sections 18001.8, 18007, 18008, and 19971, except where being sited or installed as an accessory or junior accessory dwelling unit as set forth in ~~subsection (d) § 1271.02~~ § 1270.03.01 (Exemptions) below;

(3) all tentative and parcel maps or other ~~de~~Developments approved after January 1, 1991; and

(4) 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) All Building Construction shall comply with the minimum standards in this Subchapter within the Perimeter of the Building Construction subject to this Subchapter.

(c)

#### OPTION ONE

(c) Where Building Construction requires a tentative and final map pursuant to the Subdivision Map Act, the provisions of this Subchapter shall further apply to any Road or Road Structure that provides Access to the Building Construction.

#### OPTION TWO

(c) Where Building Construction is of XX or more Residential

Edith Hannigan 2/4/21 8:43 PM

**Comment:** Presented below are three options the Board is contemplating as a means to address instances when existing roads, etc, that provide access to building construction development need to meet the standards in the Fire Safe Regulations (which may include alternative means of compliance - please see the standards in "Built Roads" in Article 2). Please provide your thoughts on your preferred options, and we especially welcome feedback on any of the highlighted text. These options are not necessarily mutual exclusive and could be used in combination.

Hannigan, Edith@BOF 2/8/21 12:19 PM

**Comment:** These numbers could also be square footage rather than the number of units/people served/people on site. Open to other suggestions

Units; increases the service capacity of commercial or industrial uses **by XX%;** or increases the number of workers on the site of any **use by XX%,** the provisions of this Subchapter shall further apply to any Road or Road Structure that provides Access to the Building Construction.

**OPTION THREE**

(c) Where Building Construction meets the following criteria, the provisions of this Subchapter shall further apply to any Road or Road Structure that provides Access to the Building Construction: ~~Unless otherwise exempt pursuant to this subchapter, 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 change in zoning building permit for new building construction;;

(3) application for a change in use permit; and

(4) road construction.

~~This subchapter shall be applied as follows:~~

~~(a) the local jurisdictions shall provide the Director of the California Department of Forestry and Fire Protection (CAL FIRE) or their designee with notice of applications for building permits, tentative parcel maps, tentative maps, and installation or use permits for construction or development within the SRA.~~

~~(b) the Director or their designee may review and make fire protection recommendations on applicable construction or~~

Hannigan, Edith@BOF 2/8/21 1:47 PM

**Comment:** This option is based on existing language in § 1270.02 Scope, subsection (e)- see [westlaw](#)

~~development permits 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 or development permit or map.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1270.03.01 Exemptions

(a) These regulations do not apply where an application for a building permit in the SRA is filed after January 1, 1991 for ~~b~~Building ~~e~~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 ~~p~~Perimeters and ~~a~~Access to the ~~b~~Buildings were imposed by the parcel map or final tentative map approved prior to January 1, 1991.

(1) For this exemption to apply, the parcel map or tentative map that was approved prior to January 1, 1991, shall have imposed conditions relating to the Perimeters and Access to the Building Construction that is the subject of the building permit application filed after January 1, 1991.

(2) These regulations shall apply to the Building Construction 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 map or tentative map.

Edith Hannigan 2/7/21 4:32 PM

**Comment:** The language in this section was taken from the existing "Scope" language. Changes from existing text are in strikeout/underline, but in the 45-day notice all terms will be underlined pursuant to the APA.



(b) At the discretion of the local jurisdiction, and subject to any requirements imposed by the local jurisdiction to ensure reasonable ingress, egress, and capacity for evacuation and emergency response during a wildfire, these regulations shall not apply to the reconstruction or repair of legally constructed residential, commercial, or industrial buildings due to a wildfire. Nothing in this subsection shall be construed to alter the extent to which these regulations apply to the reconstruction or repair of a legally constructed residential, commercial, or industrial building for reasons unrelated to a wildfire. This exemption is applicable to reconstruction or repair after a wildfire only to the extent that the reconstruction or repair does not:

(1) increase the square footage of the residential, commercial, or industrial building or buildings that previously existed **by more than 20%;** or

(2) change the use of the building or buildings that had existed previously; or

(3) construct a new building or buildings that did not previously exist on the site; and

(4) encroach on the minimum setback requirements in § 1276.03 Building and Parcel Siting and Setbacks.

(c) Except as otherwise provided in §§ 1270.03.02 (Substandard Roads) and 1270.03.03 (Aggregate Risk), ~~th~~these regulations do not apply to the creation of accessory or junior accessory dwelling units that comply with Government Code sections 65852.2

Hannigan, Edith@BOF 2/8/21 1:49 PM

**Comment:** Is this allowable square footage increase appropriate?

or 65852.22, or any local ordinances enacted thereunder, as applicable, including any local ordinances requiring provisions for fire and life safety.

(d) ~~EXEMPTION: Roads~~ These regulations shall not apply to Roads used solely for ~~a~~Agriculture~~at~~, mining, or the management and harvesting of wood products.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1270.03.02 Substandard Roads.

(a) Notwithstanding any other provision in this Subchapter, Building Construction shall not be approved where Access is provided by Roads that do not meet the minimum requirements in § 1273.05.02 (Built Roads), to the extent the Road remains below the minimum requirements.

(b) Notwithstanding any other provisions in this Subchapter, Building Construction shall not be approved when the Building Construction would cause a Road used to provide Access to the Building Construction does not meet the minimum requirements in § 1273.05.02 (Built Roads) to exceed the aggregate risk threshold calculated in conformance with § 1270.03.03 (Aggregate Risk).

(c) Notwithstanding any other provision in this Subchapter, exemptions from these standards enumerated in § 1270.03.01(c) (Exemptions - ADUs) shall not apply when Access to the Building Construction is provided by Roads that do not meet the minimum

requirements in [§ 1273.05.02 \(Built Roads\)](#) or the Building Construction would cause the Access to exceed the aggregate risk threshold in [§ 1270.03.03 \(Aggregate Risk\)](#).

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

#### §1270.03.03 Aggregate Risk

(a) Prior to approving any Building Construction subject to this Subchapter where Access is provided by an existing Road or Roads that do not meet the requirements in [§ 1273.05.02 \(Built Roads\)](#), a Local Jurisdiction shall calculate, for each Road:

(1) the total estimated daily vehicle trips per Residential Unit, commercial use, and/or industrial use that existed along each Road on July 1, 2021;

(2) the total estimated daily vehicle trips per Residential Unit, commercial use, and/or industrial use existing along each Road on the date the Building Construction is received by the Local Jurisdiction for approval; and

(3) the total estimated increased in daily vehicle trips on each Road per Residential Unit, commercial use, and/or industrial use that would result from approving the proposed Building Construction.

(b) Pursuant to [§ 1270.03.02 \(Substandard Roads\)](#), Building Construction shall not be approved

(1) where Access is provided by a Road which has experienced a **doubling** in its total estimated daily vehicle

Hannigan, Edith@BOF 2/8/21 1:58 PM

**Comment:** Is this "doubling" threshold appropriate? Too small? Too high?

trips since July 1, 2021;

(2) where the Building Construction would cause the total estimated daily vehicle trips experienced on a Road on July 1, 2021 to double, or where the Building Construction would cause a Road to cross a threshold such that if the Building Construction was approved, the Road would experience a doubling in its total estimated daily vehicle trips since July 1, 2021.

(c) Estimated daily vehicle trips per Residential Unit shall be calculated using a factor of 5.11 daily vehicle trips per Residential Unit.

(d) Estimated daily vehicle trips per commercial use shall be calculated...

Hannigan, Edith@BOF 2/8/21 1:59 PM

**Comment:** Looking for recommendations on thresholds for commercial and industrial uses

(e) Estimated daily vehicle trips per industrial use shall be calculated...

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1270.04. Local Regulations Ordinances.

(a) These regulations shall serve as the minimum wildfire protection standards applied in SRA and VHFHSZ. However, these regulations do not supersede local regulations which equal or exceed the standards of this Subchapter. ~~Nothing contained in these regulations shall be considered as abrogating the provisions of any ordinance, rule or regulation of any state or local jurisdiction provided that such ordinance, rule, or regulation is equal to or exceeds these minimum standards.~~

(b) A local regulation equals or exceeds a minimum standard of this Subchapter only if, at a minimum, the local regulation also fully complies with the corresponding minimum standard in this Subchapter. ~~(b) Counties may submit their local ordinances for certification via email to the Board, and the Board may certify them as equaling or exceeding these regulations when they provide the same practical effect. If the Board determines that the local requirements do not equal or exceed these regulations, it shall not certify the local ordinance.~~

(c) A Local Jurisdiction shall not apply exemptions to Building Construction that are not enumerated in this Subchapter.

(1) Exceptions requested and approved in conformance with [§ 1270.06 \(Exceptions\)](#) may be granted on a case-by-case basis.

(2) Exemptions not enumerated in these regulations shall not be granted.

~~(e) When the Board grants certification, the local ordinances, in lieu of these regulations, shall be applied as described in 14 CCR § 1270.02 and used as the basis for inspections performed under 14 CCR § 1270.05.~~

(d) A Local Jurisdiction or local fire authority may notify the Board upon commencement of any revisions to relevant local regulations. The Board may provide technical assistance to the agency during the revision drafting process. ~~The Board's certification of local ordinances pursuant to this section is rendered invalid when previously certified ordinances are subsequently amended by local jurisdictions, or the regulations~~

~~are amended by the Board, 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 submitted for re-certification.~~

(e) The Local Jurisdiction or local fire authority may submit their draft regulation to the Board at least 90 days before the first meeting of the Local Jurisdiction or local fire authority at which the proposed draft will be presented to the public.

(f) The Board may provide recommendations on the draft within 60 days.

(g) Notwithstanding a local regulation that equals or exceeds the State Minimum Fire Safe Regulations, a local jurisdiction shall require Building Construction to comply with the State Minimum Fire Safe Regulations.

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

§ 1270.05. Inspections.

Inspections shall conform to the following requirements:

(a) Inspections in the SRA shall be made by:

- (1) the Director, or
- (2) local jurisdictions that have assumed state fire protection responsibility on SRA lands, or
- (3) local jurisdictions where the inspection duties have

Edith Hannigan 2/7/21 4:55 PM

**Comment:** This section has been reorganized; changes are in strikeout/underline but any sections that are moved, even if they are the same text as existing regulations, will be underlined in the 45-day rule text pursuant to the APA.

1 been formally delegated by ~~CAL FIRE~~ the Director to the local  
2 jurisdiction, pursuant to subsection (b).

3 (b) The Director may delegate inspection authority to a Local  
4 Jurisdiction subject to all of the following criteria:

5 (1) The Local Jurisdiction represents, to the Director's  
6 satisfaction, that the Local Jurisdiction has appropriate  
7 resources to responsibly perform the delegated inspection  
8 authority.

9 (2) The Local Jurisdiction acknowledges that CAL FIRE's  
10 authority under subsection (c) shall not be waived or  
11 restricted.

12 (3) The Director may impose additional criteria on a  
13 proposed delegation of inspection authority as the Director  
14 deems necessary and appropriate to ensure that the delegated  
15 inspection authority is performed responsibly.

16 (4) The Local Jurisdiction consents to the delegation of  
17 inspection authority.

18 (5) The Director may in their discretion revoke the  
19 delegation at any time.

20 (6) The delegation of inspection authority, and any  
21 subsequent revocation of the delegation, shall be documented in  
22 writing, and retained on file at the CAL FIRE Unit headquarters  
23 that administers SRA fire protection in the Local Jurisdiction.

24 ~~Nothing in this section abrogates CAL FIRE's authority to~~  
25 ~~inspect and enforce state forest and fire laws even when the~~  
~~inspection duties have been delegated pursuant to this section.~~

(c) Inspections in the VHFHSZ shall be made by the local jurisdiction. Reports of violations shall be provided to the CAL FIRE Unit headquarters that administers SRA fire protection in the local jurisdiction.

(d) Nothing in this section abrogates CAL FIRE's authority to inspect and enforce state forest and fire laws in the SRA even when the inspection duties have been delegated pursuant to this section. ~~When inspections are conducted, they shall occur prior to: the issuance of the use permit or 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.~~

(e) Reports of violations within the SRA shall be provided to the CAL FIRE Unit headquarters that administers SRA fire protection in the local jurisdiction.

(f) Inspections conducted by the Director shall be limited to confirming compliance with the State Minimum Fire Safe Regulations. Inspections conducted by the local jurisdiction or fire authority shall confirm compliance with the State Minimum Fire Safe Regulations. A local jurisdiction may, in its discretion, conduct additional inspections with respect to a local regulation that equals or exceeds the State Minimum Fire Safe Regulations.

(g) The Local Jurisdiction shall ensure that any applicable Building Construction complies with the applicable sections of this Subchapter.

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**Comment:** This is existing language from the "Provisions for Application of these Regulations" moved here. Changes from existing text are in strikeout/underline, but in the 45-day notice all terms will be underlined pursuant to the APA.



Note: Authority cited: Section 4290, Public Resources Code.  
Reference: Sections 4102, 4119, 4125, 4290 and 4291, Public  
Resources Code.

§ 1270.06. Exceptions to Standards.

(a) The requirements in this section apply to requests for  
Exceptions from the standards in the State Minimum Fire Safe  
Regulations.

~~(b)~~ Upon request by the applicant, an ~~e~~Exceptions to a  
standards within this ~~s~~Subchapter ~~or to local jurisdiction~~  
~~certified ordinances~~ may be granted allowed by the inspection  
entity in accordance with ~~listed in~~ § 1270.05 (Inspections).  
~~where the exceptions provide the same practical effect as these~~  
~~regulations towards providing defensible space.~~

(1) Exceptions shall only be granted where the Exception  
provides for Substantial Compliance with the minimum standards  
provided in this Subchapter.

(2) Exceptions granted by the inspection entity ~~listed in~~  
~~14 CCR § 1270.05~~ shall be made on a case-by-case basis only,  
shall be in writing, and shall be supported by Substantial  
Evidence. Exceptions granted by the inspection entity ~~listed in~~  
~~14 CCR § 1270.05~~ shall be forwarded to the Board and the  
appropriate CAL FIRE Unit Office that administers SRA fire  
protection in that county. Exceptions shall be retained on file  
at both offices for a period of no less than five (5) years. ~~and~~  
~~shall be retained on file at the Unit Office.~~

(3) Building Construction prohibited by §§ [1270.03.02 \(Substandard Roads\)](#) or [1270.03.03 \(Aggregate Risk\)](#) shall not be eligible for an exception.

(b) Requests for an ~~e~~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.

(1) ~~At a minimum, the~~ Exception requests shall state

(i) the specific section(s) for which an ~~e~~Exception is requested;~~;~~

(ii) material facts supporting the necessity for an ~~Exception~~ ~~contention of the applicant~~~~;~~

(iii) material facts demonstrating the proposed alternative mean(s) Substantially Complies with the State Minimum Fire Safe Regulation for which the Exception is requested; ~~the details of the exception proposed,~~ and

(iv) a map showing the proposed location and siting of the ~~e~~Exception, including address or parcel number, as applicable.

(2) Local jurisdictions acting as inspection entities pursuant to ~~listed in~~ [§ 1270.05 \(Inspections\)](#) may establish additional procedures or requirements for ~~e~~Exception requests.

(e) Where an exception is not granted by the inspection entity, 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 to adjudicate any appeals of  
Exceptions that have been denied.

(1) In addition to local requirements, the local  
jurisdiction shall consult with the inspection entity prior to  
making a determination on an appeal.

(2) The inspection entity shall provide documentation  
demonstrating how the requested Exception does not substantially  
comply with the standards in this Subchapter. ~~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 wildfire protection.~~

(e) If an appeal is granted, the local jurisdiction shall make  
written findings of the Exception's Substantial Compliance, as  
defined [§ 1270.01 \(Definitions\)](#), with the minimum standards in  
this Subchapter, supported by Substantial Evidence. ~~that the  
decision meets the intent of providing defensible space  
consistent with these regulations.~~ Such findings shall include a  
written statement of reasons for overriding the decision of the  
inspection entity. A written copy of these findings shall be  
provided to the Board and the CAL FIRE Unit headquarters that  
administers SRA fire protection in that local jurisdiction.

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

Edith Hannigan 2/6/21 2:20 PM

**Comment:** Existing text moved from "Definitions" section to its own section.

§ 1270.07. Distance Measurements.

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

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

Article 2. ~~Emergency~~ Access and Egress

§ 1273.00. ~~Safe Access and Egress~~ Intent.

(a) Roads, ~~and~~ Driveways, and Road or Driveway Structures, whether public or private, unless exempted under 14 CCR § 1270.03.01 (Exemptions) 1270.02(e), shall provide for safe access for emergency wildfire equipment and civilian evacuation concurrently, and shall provide unobstructed traffic circulation during a wildfire emergency consistent with 14 CCR §§ 1273.00 through 1273.09, as set forth in this Article.

(b) (1) The provisions of this Article shall apply to any Road, Driveway, or Road or Driveway Structure, whether newly constructed, approved, or existing, within the Perimeter of any Building Construction subject to this Subchapter.

(2) The provisions of this Article shall further apply to any existing Road, Driveway, or Road or Driveway Structure that provides Access to Building Construction meeting the criteria in § 1270.03 (Scope - see options for discussion).

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.01. Horizontal and Vertical Curves / Curb Radii ~~Width.~~

(a) No road or road structure shall have a horizontal inside radius of curvature (measured from the centerline of the inside lane) of less than fifty (50) feet. Additional surface width of four (4) feet shall be added to curves of 50-100 feet radius; one (1) foot shall be added to curves of 100-200 feet, as illustrated on Figure 1 and Figure 2.

(1) Flexible plastic posts to delineate the shoulder and/or provide separation for cyclists may be placed within the required radius upon approval by the local jurisdiction.

(2) A design that does not meet the requirements of subsection (a) may be approved where the operating speed is 15 miles per hour (mph) or less and the horizontal curve is designed and modeled by a licensed professional engineer demonstrating that emergency responders can negotiate the proposed horizontal inside radius.

(b) At intersections where on-street parking and bike lanes may be present, the effective turning radius shall not be less than fifty (50) feet as illustrated in Figure 3 below.

(1) Smaller curb radii or curb extensions may be installed at intersections where width allows to minimize pedestrian exposure and collision severity as long as the effective turning radius is not less than fifty (50) feet.

(2) At intersections in areas without on-street parking and/or bike lanes where speeds approaching the intersection are less than 15 mph, and traffic volumes on the receiving road are

less than 120 vehicles per hour during either an evacuation event or during the peak commute hour, whichever is a higher volume, curb radii of twenty (20) feet may be approved, as illustrated in Figure 4, if designed by a professional engineer demonstrating that emergency responders can negotiate the turn safely.

(c) The length of vertical curves of roads, exclusive of gutters, ditches, and drainage structures designed to hold or divert water, shall be not less than one hundred (100) feet. Vertical curves less than one hundred (100) feet may be approved when designed by a professional engineer demonstrating that emergency responders can physically negotiate the road.

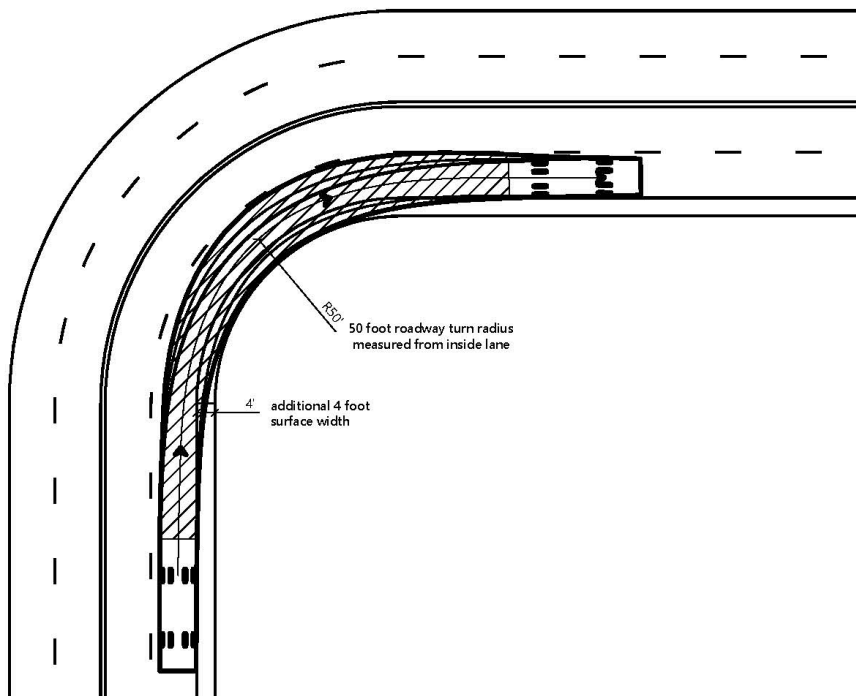


Figure 1  
Effective Turning Radius for Horizontal Curvature with 50 Foot Radius

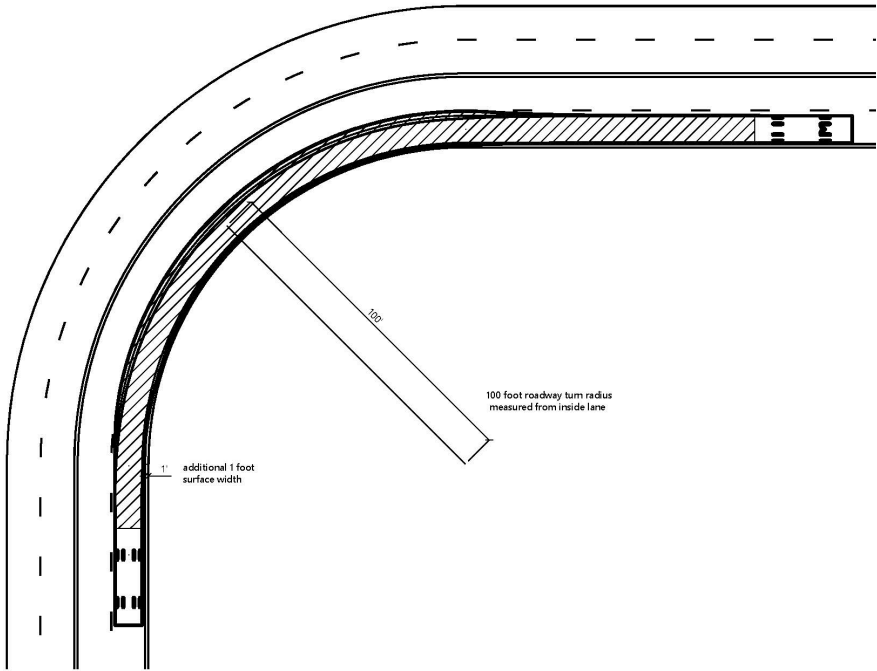


Figure 2  
Effective Turning Radius for Horizontal Curvature with 100 Foot Radius

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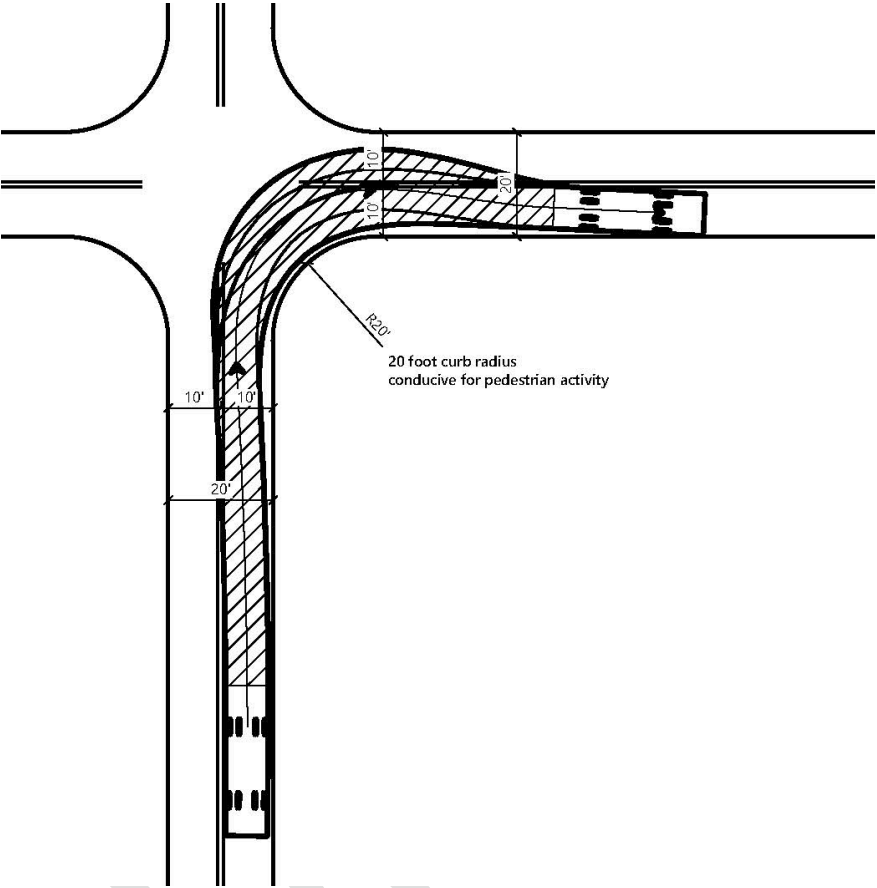


Figure 4  
Effective Turning Radius for 20 Foot Wide Road Intersection

~~(a) 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. Vertical clearances shall conform to the requirements in California Vehicle Code section 35250.~~

~~(b) All one-way roads shall be constructed to provide a minimum of one twelve (12) foot traffic lane, not including shoulders. The local jurisdiction may approve one-way roads.~~

~~(1) All one-way roads shall, at both ends, connect to a road with two traffic lanes providing for travel in different directions, and shall provide access to an area currently zoned for no more than ten (10) residential units.~~

~~(2) In no case shall a one-way road exceed 2,640 feet in length. A turnout shall be placed and constructed at approximately the midpoint of each one-way road.~~

~~(c) All driveways shall be constructed to provide a minimum of one (1) ten (10) foot traffic lane, fourteen (14) feet unobstructed horizontal clearance, and unobstructed vertical clearance of thirteen feet, six inches (13' 6").~~

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

§ 1273.02. Road Surfaces.

(a) Roads shall be designed and maintained to support the imposed load of fire apparatus weighing ~~at least~~ 75,000 pounds. ~~and provide an aggregate base.~~ The material of the Road shall be non-erodible (including, but not limited to, a binding agent, gravel, lime slurry, or pavement) and designed to support the required weight at all times, including during saturation. Roads with a grade of greater than 16% have additional surface treatment requirements specified in [§ 1273.04 \(Grades\)](#).

(b) Where the local fire authority certifies that the fire apparatus used is of a lower weight, the local jurisdiction may approve Roads designed to support a lower apparatus weight. If the Road is designed for lower weight than required in § 1273.02(a), then it shall be identified through signage as described in Article 4. In no case shall a Road be designed to support a weight below 36,000 pounds. ~~Driveways and road and driveway structures shall be designed and maintained to support at least 40,000 pounds.~~

(c) When necessary, the local fire authority or the Local Jurisdiction may require Roads be designed to support a vehicle weight up to 100,000 pounds.

~~(de)~~ Project proponent shall provide engineering specifications to support design, if requested by the ~~Local authority having~~ Jurisdiction.

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

§ 1273.03. Elevated or Bridge Structures. ~~Grades.~~

(a) Appropriate signing, including but not limited to weight or vertical clearance limitations, one-way road or single traffic lane conditions, or bridge weight rating limits, shall reflect the capability of each bridge. Refer to [Article 3](#) for signage requirements.

(b) Where a bridge or an elevated surface is part of a Road, it shall be designed and constructed to accommodate a gross vehicle weight rating of 75,000 pounds. Vehicle load limits shall be posted at both entrances to bridges.

(1) Bridges or elevated surfaces may be designed for a lower apparatus weight if approved by the local jurisdiction verifying that the apparatus used will be under the load weight of the bridge. If the bridge is designed for a lower weight, then it shall be identified through signage as required in [Article 3](#). In no case shall the bridge be designed to support a weight below 36,000 pounds.

(2) American Association of State Highway and Transportation Officials (AASHTO) structure design standards, which focuses on axle load requirements, may be considered in lieu of total vehicle weight if bridges and elevated structures are designed and certified by a professional engineer.

(3) When necessary, the local fire authority and/or the local jurisdiction may require bridges or elevated structures be designed to support a vehicle weight up to 100,000 pounds.

(c) Where elevated surfaces designed for emergency vehicle use are adjacent to surfaces which are not designed for such use, barriers, signs, and/or other distinguishing features, as approved by the Local Jurisdiction, shall be installed and maintained.

(d) 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. Single lane bridges shall be implemented consistent with requirements outlined in [§ 1273.05.01](#).

(e) Bridges shall be constructed of non-combustible materials.

~~(a) At no point shall the grade for all roads and driveways exceed 16 percent.~~

~~(b) The grade may exceed 16%, not to exceed 20%, with approval from the local authority having jurisdiction and with mitigations to provide for same practical effect.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.04. Road Grades. ~~Radius.~~

(a) The grades for all Roads shall not exceed sixteen (16) percent.

(b) A Local Jurisdiction may approve Road grades of 16 to 20 percent with proper mitigation to prevent slippage (including, but not limited to, aggregate treatments, binding agents, and/or paving) and scaping. Roads exceeding 16 percent shall be

designed by a licensed engineer shall meet the intent of the surface treatments outlined in Table 1.

(c) A Local Jurisdiction retains the authority to require lower percent grade and additional surfacing requirements.

**Table 1. Example Treatments for Grades of 16-20%**

<u>Grade Range</u>	<u>Surface Treatment</u>	<u>Additional Design Requirements</u>
<u>16.01-18%</u>	<u>Minimum 2" Hot Mix Asphalt (HMA) over 5" of Class 2 Aggregate Base (AB)</u>	
<u>18.01-20%</u>	<u>Minimum 3" HMA over 5" of Class 2 AB or approved equal designed by licensed engineer</u>	<u>Includes a transition zone of 100' of road immediately before and after with a grade less than 10%; sustained grades of 18% shall be limited to a maximum length of 300 feet</u>

(d) Grade transitions shall be constructed and designed to accommodate maximum approach and departure angles of twelve (12) degrees.

~~(a) No road or road structure shall have a horizontal inside radius of curvature of less than fifty (50) feet. An additional surface width of four (4) feet shall be added to curves of 50-100 feet radius; two (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 one hundred (100) feet.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.05. Road Dimensions and Clearances. ~~Turnarounds.~~

Roads subject to this Subchapter shall conform to the requirements in this section.

~~(a) Turnarounds are required on driveways and dead end roads.~~

~~(b) The minimum turning radius for a turnaround shall be forty (40) feet, not including parking, in accordance with the figures in 14 CCR §§ 1273.05(c) and 1273.05(f). If a hammerhead/T is used instead, the top of the "T" shall be a minimum of sixty (60) feet in length.~~

~~(c) Driveways exceeding 150 feet in length, but less than 800 feet in length, shall provide a turnout near the midpoint of the~~

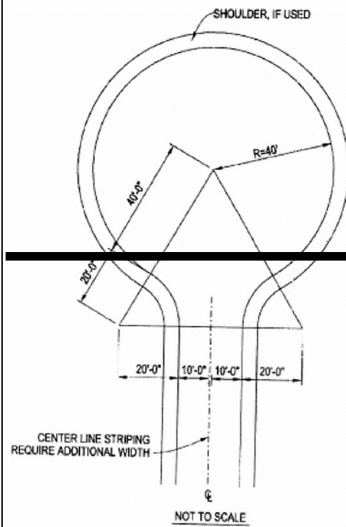
driveway. Where the driveway exceeds 800 feet, turnouts shall be provided no more than 400 feet apart.

(d) A turnaround shall be provided on driveways over 300 feet in length and shall be within fifty (50) feet of the building.

(d) Each dead-end road shall have a turnaround constructed at its terminus. Where parcels are zoned five (5) acres or larger, turnarounds shall be provided at a maximum of 1,320 foot intervals.

(e) Figure A. Turnarounds on roads with two ten-foot traffic lanes.

Figure A/Image 1 is a visual representation of paragraph (b).



Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.



§ 1273.05.01 Road Width and Horizontal Clearances

(a) All bidirectional Roads shall be constructed to provide a minimum of two ten (10) foot Traffic Lanes, not including Shoulders or striping. Where topographic or other limitations require the two Traffic Lanes to be constructed non-adjacently, each Traffic Lane shall be constructed to provide a minimum of twelve (12) feet.

(b) All One-way Roads shall be constructed to provide a minimum of one twelve (12) foot Traffic Lane.

(c) One-way Roads shall maintain a clear width of 20 feet. Bidirectional Roads with a center median shall maintain a clear width of 20 feet on either side of the median. This clear width may include bike lanes, Shoulders, or flexible barriers used as traffic calming devices or to delineate a bicycle facility, or for other uses.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.05.02 Built Roads

(a) Notwithstanding any other provision in this Subchapter, Building Construction, including Building Construction enumerated in § 1270.03(b) and § 1270.03.01(b) and (c), shall not be approved where the Local Roads providing Access to the Building Construction do not provide for at one (1) least fourteen (14) foot Traffic Lane for a distance of at least twenty-two (22) feet for a distance of XX feet.

(b) Notwithstanding any other provision in this Subchapter, Building Construction, including Building Construction enumerated in [§ 1270.03\(b\)](#) and [§ 1270.03.01\(b\) and \(c\)](#), shall not be approved where the grade of the Local Roads providing Access to the Building Construction exceeds 20% over a distance of **XX** linear feet.

(c) Notwithstanding any other provision in this Subchapter, Building Construction meeting the criteria in [§ 1270.03\(c\)](#) shall not be approved where a Dead-end Road exceeds one (1) mile in length in a very high fire hazard severity zone in the SRA, designated pursuant to Government Code § 51178 and 14 CCR § 1280.01, or VHFHSZ in the LRA, as measured from the intersecting through Road. When such Building Construction includes a Road connecting the Dead-end Road to a through Road, thus shortening the length of the Dead-end Road, the Local Jurisdiction may approve the construction.

(d) Notwithstanding any other provision in this Subchapter, Building Construction may be approved when the Local Roads serving as Access to the Building Construction provide for more than one (1) fourteen (14) foot Traffic Lane but less than the minimum Road width standard in [§ 1273.05.01](#) when the Local Roads meet the following criteria:

(1) None of the Local Roads are native-surfaced for more than 50% of the Road's length; and

(2) Each Local Road provides Turnouts in compliance with [§ 1273.05.07](#) or maintains a twenty (20) foot clear space suitable

to serve as a Traffic Lane for the length of the Road. This clear space shall be free of vegetation, debris, fences, or other materials that impede traffic flow, but may include flexible posts or barriers in compliance with [§ 1273.01\(a\)\(1\)](#).

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code, Section 51178 Government Code.

#### § 1273.05.03 Road Vertical Clearances

Roads shall provide for a minimum of thirteen feet and six inches (13' 6") of unobstructed vertical clearance.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

#### § 1273.05.04 Maximum Lengths of One-Way Roads

In no case shall a one-way road exceed 2,640 feet in length.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

#### § 1273.05.05 Maximum Lengths of Dead-end Roads

(a) The maximum length of a Dead-end Road shall not exceed the following cumulative lengths:

(1) parcels zoned for less than one acre - 800 feet

(2) parcels zoned for 1 acre to 4.99 acres - 1,320 feet

(3) parcels zoned for 5 acres or larger - 2,640 feet

(b) All Dead-end Roads shall meet the Turnaround requirements in

§ 1273.05.07.

(c) All Dead-end Roads shall meet the width requirements in § 1273.05.01.

(d) Each Dead-end Road shall be connected directly to a through road (a road that is connected to other roads at both ends).

(e) The length of all Dead-end Roads shall be measured from the center line of the through road it connects to, to the terminus of the Dead-end Road at its farthest point.

(f) Where a Dead-end Road provides access to differing zoned parcel sizes requiring different length limits, the shortest allowable length shall apply.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.05.06 Secondary Access/Egress

(a) When this Subchapter is applicable to Building Construction, such Building Construction may be required by the fire authority to provide for secondary access.

(1) The fire authority may require secondary access where the length of existing Roads exceed the maximum Dead-end or one-way distances in this Subchapter.

(2) The fire authority may require secondary access when existing Roads are insufficient due to terrain, location, potential fire or life-safety hazards or other factors that could limit access, or if vehicle congestion, railways, or

weather conditions could impair the single-entry point.

(3) The fire authority may require secondary access for any Building Construction where the site population or activity attendance is anticipated to exceed 100 people.

(b) Secondary access routes shall:

(1) Be of equal construction standard to the primary Road. The secondary access does not have to be rated to carry the same quantity of traffic as the primary Road.

(2) Not exceed the dead-end Road length requirements outlined in § 1273.05.05.

(3) Not be a Road with a locked gate or limited access, and shall provide for legal and deeded access that serves as a typical travel way to and from the Building Construction. A secured secondary access may be provided if it meets the requirements in § 1273.06.

(4) Shall connect a user to an alternative route that would not be affected by a closure to the primary access route, to the extent practicable.

(c) The installation of a secondary access does not exempt any Road from meeting the minimum requirements in this Subchapter.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

#### § 1273.05.07 Turnouts

(a) Turnouts shall be a minimum of twelve (12) feet wide from

the shoulder stripe, twenty-two (22) feet long with a minimum  
twenty-five (25) foot taper on each end and be facilitated  
outside of the Traffic Lane to accommodate one passenger vehicle  
as illustrated on Figure 5.

(b) On One-way Roads Dead-end Roads, a Turnout shall be located  
at approximately the midpoint of the Road.

(c) Turnouts shall be provided no more than 400 feet apart on  
One-way Roads or on Roads that do not meet the width  
requirements.

22  
23  
24  
25

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.05.08 Turnarounds

(a) Each Dead-end Road shall have a Turnaround constructed at its terminus. Where a Dead-end Road crosses parcels zoned for five (5) acres or larger, a Turnaround shall also be provided halfway along the Dead-end Road.

(b) The minimum turning radius for a Turnaround shall be forty (40) feet, not including parking, in accordance with Figure 6.1 below. If a hammerhead/T is used instead, the top of the "T" shall be a minimum of sixty (60) feet in length.

(c) Turnarounds with a radius smaller than 40 feet, shown in Figures 6.2 and 6.3 below, may be approved by the local jurisdiction when physical constraints prohibit the ability to install a 40-foot Turnaround.

(d) The center of the Turnaround shall remain clear of vegetation or decorative elements.



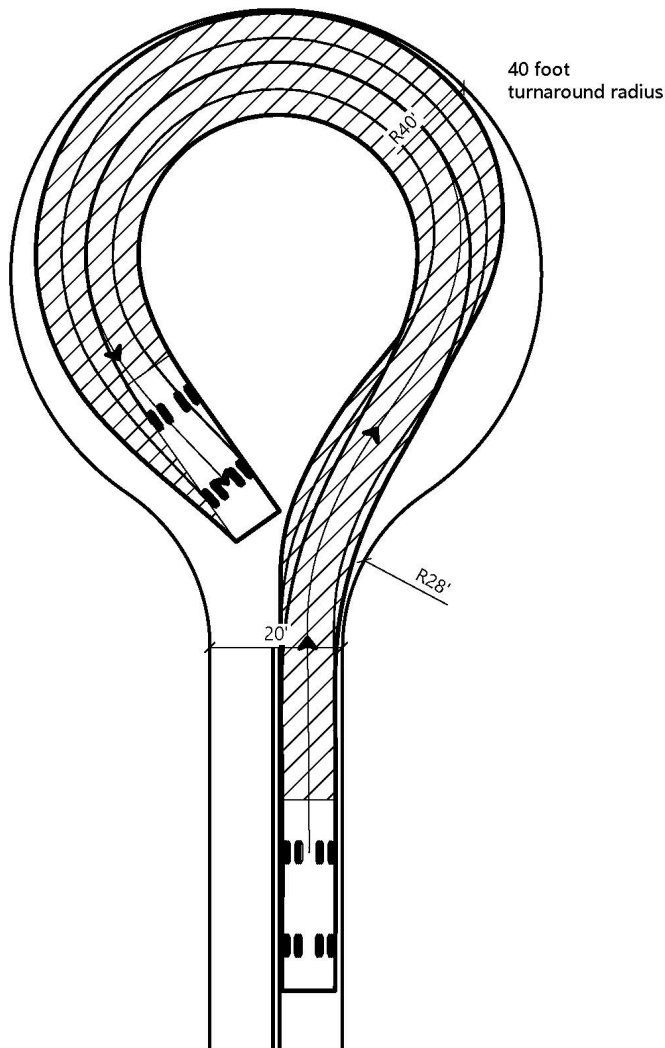


Figure 6.1  
Turnarounds with 40-foot radius

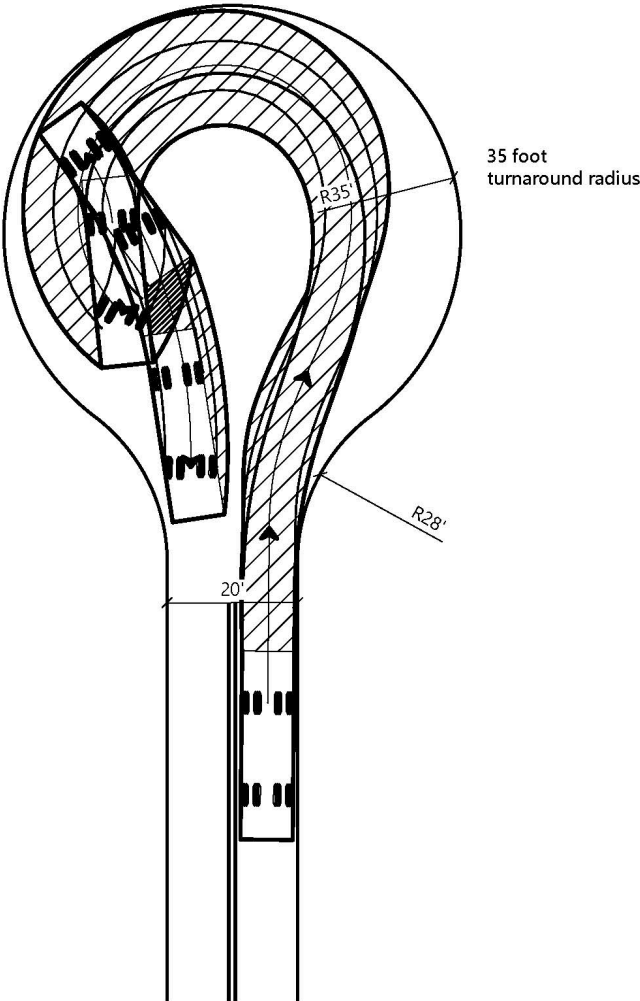


Figure 6.2  
Turnarounds with 35-foot radius

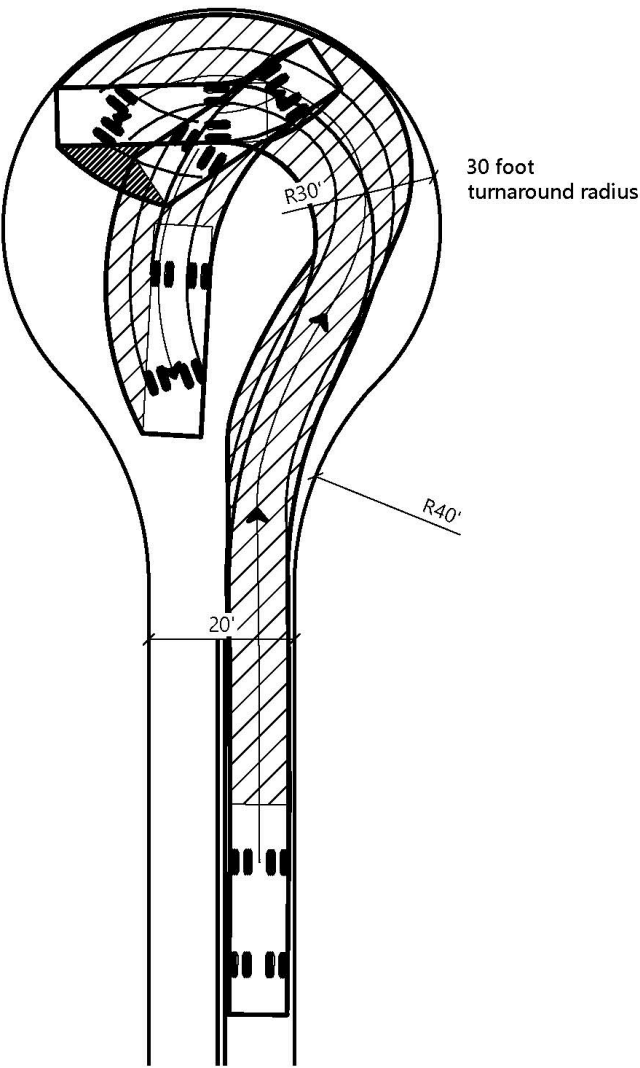


Figure 6.3  
Turnarounds with 30-foot radius

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

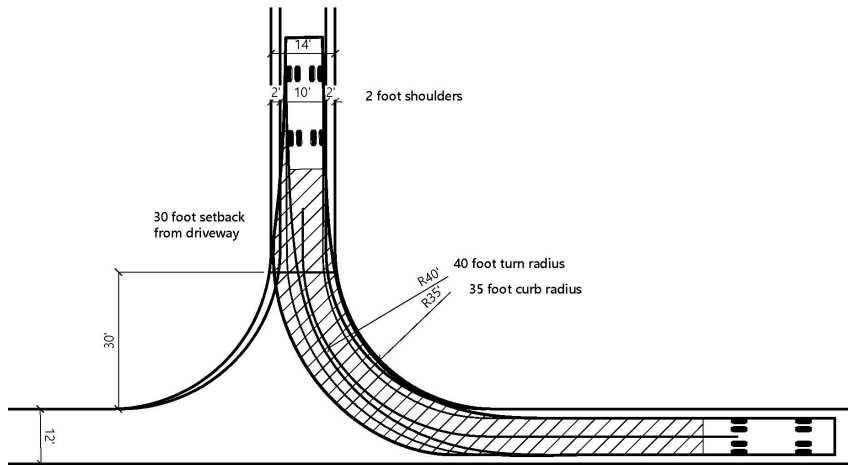
§ 1273.06 Security Gates—Turnouts

(a) Security gates shall not be installed without approval from the Local Jurisdiction. Where security gates are installed, they shall have an approved means of emergency operation. Electronic gates shall have a manual method of opening in case of electronic failure. The manual method shall be maintained operational at all times.

(b) Gate entrances shall be at least two (2) feet wider than the width of the Road or Driveway, as shown in Figure 7 below. Where a gate is installed across an existing Road or Driveway, the gate shall be no less than ten (10) feet wide, with a minimum width of fourteen (14) feet unobstructed horizontal clearance and unobstructed vertical clearance of thirteen feet, six inches (13' 6"). Clearance shall be maintained at all times.

(c) 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 as illustrated on Figure 7.

(d) All gates providing access from a Road to a Driveway shall be located at least thirty (30) feet from the Road and shall open in direction of travel to allow a vehicle to stop without obstructing traffic on that Road, in accordance with Figure 7.



**Figure 7**

Effective Turn Radius for Gated Entrances/Driveways with Twelve Foot One-Way Main Road

~~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.~~

~~Note: Authority cited: Section 4290, Public Resources Code.~~

~~Reference: Sections 4290 and 4291, Public Resources Code.~~

~~§ 1273.07 Driveways. Road and Driveway Structures.~~

~~Driveways subject to this Subchapter shall conform to the requirements in § 1273.07.01 through 1273.07.07, inclusive.~~

~~(a) Appropriate signing, including but not limited to weight or vertical clearance limitations, one-way road or single traffic~~

~~lane conditions, shall reflect the capability of each bridge.~~

~~(b) 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.~~

~~(c) 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.~~

~~(d) 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.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.07.01 Driveway Width

All Driveways shall be constructed to provide a minimum of one

(1) ten (10) foot Traffic Lane, fourteen (14) feet unobstructed

horizontal clearance, and unobstructed vertical clearance of

thirteen feet, six inches (13' 6"). This vertical clearance shall be maintained at all times by the property owner.

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

§ 1273.07.02 Driveway Turnarounds

(a) A Turnaround shall be provided on Driveways over 300 feet in length and shall be within fifty (50) feet of the building.

(b) The minimum turning radius for a Turnaround shall be forty (40) feet, not including parking, in accordance with Figure 8.1 below.

(c) Turnarounds with a radius smaller than 40 feet as shown in Figure 8.2 and Figure 8.3. may be approved by the Local Jurisdiction when physical constraints do not allow for a 40-foot turnaround. If a hammerhead/T is used instead, the top of the "T" shall be a minimum of sixty (60) feet in length.

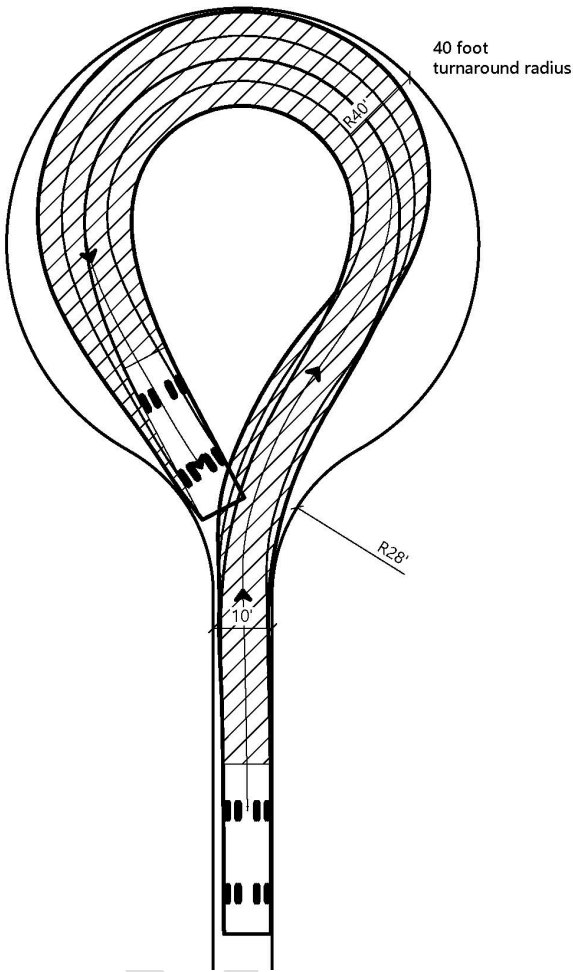
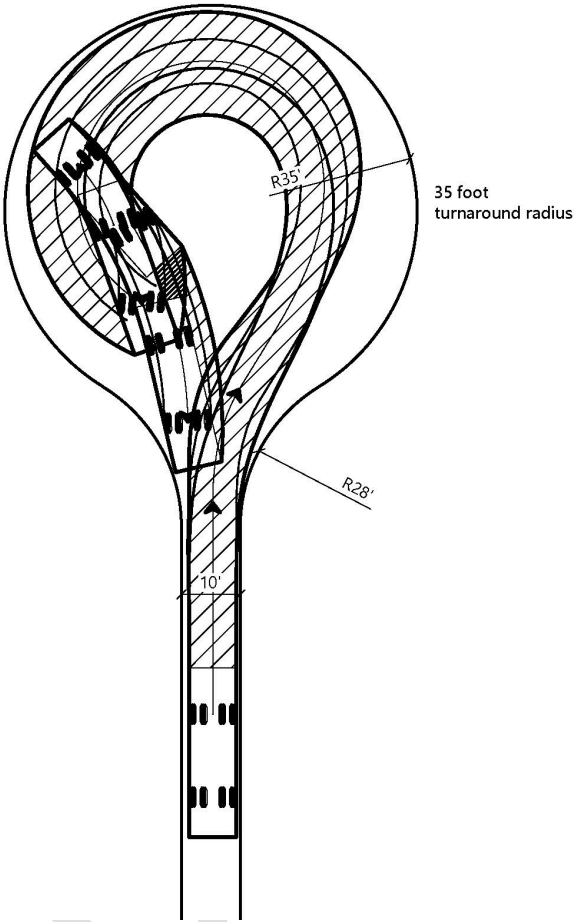
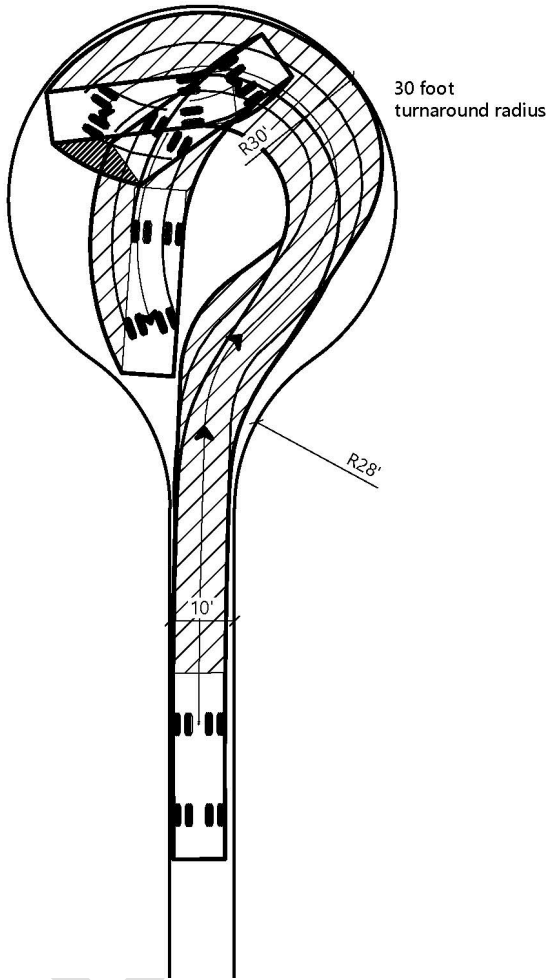


Figure 8.1  
Turnarounds for Driveways with Ten Foot Road Width - 40 Foot Turnaround Radius





**Figure 8.2**  
Turnarounds for Driveways with Ten Foot Road Width - 35 Foot Turnaround Radius



**Figure 8.3**  
Turnarounds for Driveways with Ten Foot Road Width - 30 Foot Turnaround Radius

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.07.03 Driveway Turnouts

(a) Driveways that are less than 20 feet wide and exceed 150 feet in length shall require a Turnout.

(b) Driveways greater than 150 feet in length and less than 800 feet in length shall provide a Turnout (as shown in [§ 1273.05.07, Figure 5](#)) near the midpoint of the Driveway. Where the Driveway exceeds 800 feet, Turnouts shall be provided no more than 400 feet apart.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.07.04 Driveway Structures

(a) Driveway structures shall be designed and maintained to support at least 75,000 pounds.

(1) Bridges or elevated surfaces may be designed for a lower apparatus weight if the local fire official verifies that the fire apparatus used will be under the load weight of the bridge.

(2) If the bridge is designed for a lower weight, then it shall be identified through signage as described in Article 4.

(3) In no case shall the bridge be designed to support a weight below 36,000 pounds.

(b) AASHTO structure design standards, which focus on axle load requirements, may be considered in lieu of total vehicle weight if designed and verified by a professional engineer.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.07.05. Driveway Grades and Surfaces. ~~Dead-end Roads.~~

(a) Driveways shall meet the grade requirements outlined in [§ 1273.04.](#)

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.07.06. Driveway Vertical Clearances

Driveways shall provide for a minimum of thirteen feet, six inches (13' 6") of unobstructed vertical clearance.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1273.07.07 Driveway Surfaces

Driveways shall be designed and maintained to support at least 36,000 pounds.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

~~§ 1273.08 Dead-End Roads~~

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

~~parcels zoned for less than one acre — 800 feet~~

~~parcels zoned for 1 acre to 4.99 acres — 1,320 feet~~

~~parcels zoned for 5 acres to 19.99 acres — 2,640 feet~~

~~parcels zoned for 20 acres or larger — 5,280 feet~~

~~All lengths shall be measured from the edge 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) See 14 CCR § 1273.05 for dead-end road turnaround requirements.~~

~~Note: Authority cited: Section 4290, Public Resources Code.~~

~~Reference: Sections 4290 and 4291, Public Resources Code.~~

~~§ 1273.09. Gate Entrances.~~

~~(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 thirteen feet, six inches (13' 6").~~

~~(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) 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.~~

~~(d) Security gates shall not be installed without approval. 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.~~

~~Note: Authority cited: Section 4290, Public Resources Code.~~

~~Reference: Sections 4290 and 4291, Public Resources Code.~~

### Article 3. Signing and Building Numbering

#### § 1274.00. Road Name Signs. ~~Intent~~

(a) All Road signs shall conform to the requirements of the California Manual of Uniform Traffic Control Devices (CA MUTCD).

~~(ab) Newly constructed or approved ~~roads~~ ~~must~~ shall be identified by a name or number through a consistent system that provides for sequenced or patterned numbering and ~~or~~ non-duplicative naming within each local jurisdiction. This section does not require any entity to rename or renumber existing roads, nor shall a road providing access only to a single~~

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**Comment:** This is existing language that has been moved. Changes from existing text are in ~~strikeout/underline~~, but in the 45-day notice all terms will be underlined pursuant to the APA.

~~commercial or industrial occupancy require naming or numbering.~~

(~~b~~c) The size of letters, numbers, and symbols for road signs shall be a minimum four (4) inch letter height, half inch (.5) inch stroke, reflectorized, contrasting with the background color of the sign.

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

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1274.01. Road Signs Installation, Location, and Visibility.

~~(a) Road signs shall be visible and legible from both directions of vehicle travel for a distance of at least one hundred (100) feet.~~

(~~a~~b) Signs required by this article identifying intersecting roads shall be placed at the intersection of those roads.

(~~b~~e) A sign identifying traffic access or flow limitations, including but not limited to weight or vertical clearance limitations, ~~at~~Dead-end ~~at~~Roads, ~~o~~One-way ~~at~~Roads, or single lane Roads and bridges ~~conditions~~, shall be placed:

(1) at the intersection preceding the traffic access

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**Comment:** This is existing language that has been moved. Changes from existing text are in ~~strikeout~~/underline, but in the 45-day notice all terms will be underlined pursuant to the APA.

limitation, and

(2) no more than one hundred (100) feet before such traffic access limitation.

~~(c)~~ Road signs required by this article shall be posted at the beginning of construction and shall be maintained thereafter.

(d) Road signs shall meet the minimum sign retroreflectivity requirements in the CA MUTCD. Signs that are not required to meet the retroreflectivity requirements (e.g. blue or brown backgrounds) shall be retroreflective or illuminated to show the same shape and color by both day and night.

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

§ 1274.03. Addresses for Buildings.

~~(a) All buildings shall be issued an address by the local jurisdiction which conforms to that jurisdiction's overall address system. Utility and miscellaneous Group U buildings are not required to have a separate address; however, each residential unit within a building shall be separately identified.~~

~~(b) The size of letters, numbers, and symbols for addresses shall conform to~~ consistent with the standards in the California Fire Code, California Code of Regulations title 24, part 9.

~~(e)~~ Addresses for residential buildings shall be reflectorized.

Note: Authority cited: Section 4290, Public Resources Code.



Reference: Sections 4290 and 4291, Public Resources Code.

~~§ 1274.04. Address Installation, Location, and Visibility.~~

~~(a) All buildings shall have a permanently posted address which shall be plainly legible and visible from the road fronting the property.~~

~~(b) Where access is by means of a private road and the address identification cannot be viewed from the public way, an unobstructed sign or other means shall be used so that the address is visible from the public way.~~

~~(c) Address signs along one-way roads shall be visible from both directions.~~

~~(d) Where multiple addresses are required at a single driveway, they shall be mounted on a single sign or post.~~

~~(e) Where a road 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, or otherwise posted to provide for unobstructed visibility from that intersection.~~

~~(f) In all cases, the address shall be posted at the beginning of construction and shall be maintained thereafter.~~

~~Note: Authority cited: Section 4290, Public Resources Code.~~

~~Reference: Sections 4290 and 4291, Public Resources Code.~~

Article 4. Water Supply. ~~Emergency Water Standards~~

§ 1275.00. Application. ~~Intent~~

(a) Except where otherwise indicated, ~~the~~ provisions of this Article shall apply to all Building Construction in the tentative and parcel map process when new parcels are approved by the local jurisdiction having authority.

(b) These regulations shall not apply to repair to, replacement of, or upgrades to existing water and wastewater facilities. This may include, but is not limited to water storage tanks and reservoirs, pump stations, treatment facilities, regulator stations, fire hydrants, and similar water and wastewater system devices that serve existing or primarily serve existing development.

~~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.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1275.01. Approved Water Supply. ~~Application~~

(a) Water supply shall meet or exceed the California Fire Code, California Code of Regulations Title 24, Part 9.

(b) Where a municipal-type water supply is not available, the Local Jurisdiction shall utilize the National Fire Protection

Association (NFPA) 1142, "Standard on Water Supplies for Suburban and Rural Fire Fighting," 2017 Edition, as referenced in the California Fire Code, California Code of Regulations Title 24, Part 9, Appendix B and Appendix BB.

(c) All Building Construction shall install a water supply for structure defense. 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 Jurisdiction.

(d) 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.

(e) Where freeze or crash protection is required by the ~~Local Jurisdictions having authority~~, such protection measures shall be provided.

~~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.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1275.02. Identification of Water Sources. ~~Water Supply.~~

(a) Hydrants, fire valves, or water access located along a Driveway shall be identified by at least (1) reflectorized blue

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**Comment:** Existing language moved into this section. This will be underline in the 45-day draft, pursuant to the APA.

Edith Hannigan 2/7/21 5:30 PM

**Comment:** Existing language moved into this section, with proposed changes in strikeout/underline. Changes from existing text are in strikeout/underline, but in the 45-day notice all terms will be underlined pursuant to the APA.

Hannigan, Edith@BOF 2/8/21 1:10 PM

**Comment:** These are existing requirements for signs identifying water sources, but rephrased/reworded for clarity.

1 marker, with a minimum dimension of three (3) inches. This  
2 marker shall be mounted on a fire retardant sign post. The sign  
3 post shall be located and mounted as specified by the local fire  
4 authority.

5 (b) Fire Hydrants, Fire Valves, or water access located along a  
6 Road shall be identified by a reflectorized blue marker, with a  
7 minimum dimension of three (3) inches. This marker shall be  
8 mounted on a fire-retardant sign post. The sign post shall be  
9 within three (3) feet of the Fire Hydrant, Fire Valve, or water  
10 access. The sign shall be no fewer than three (3) nor greater  
11 than five (5) feet above ground, in a horizontal position, and  
12 visible from the Road, or as specified by the local fire  
13 authority. Additional requirements may be specified by the local  
14 fire authority.

15 ~~(a) When a water supply for structure defense is required to be~~  
16 ~~installed, such protection shall be installed and made~~  
17 ~~serviceable prior to and during the time of construction except~~  
18 ~~when alternative methods of protection are provided and approved~~  
19 ~~by the local authority having jurisdiction.~~

20 ~~(b) Water systems equaling or exceeding the California Fire~~  
21 ~~Code, California Code of Regulations title 24, part 9, or, where~~  
22 ~~a municipal-type water supply is unavailable, National Fire~~  
23 ~~Protection Association (NFPA) 1142, "Standard on Water Supplies~~  
24 ~~for Suburban and Rural Fire Fighting," 2017 Edition, hereby~~  
25 ~~incorporated by reference, shall be accepted as meeting the~~

~~requirements of this article.~~

~~(c) 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.~~

~~(d) 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.~~

~~(e) Where freeze or crash protection is required by local jurisdictions having authority, such protection measures shall be provided.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1275.03. Access to Water Sources. Hydrants and Fire Valves.

(a) Break away locks or similar systems approved by the Local Jurisdiction shall provide fire fighters with access to any water connections, valves, or controls that are normally secured by gates, doors, or other locking systems.

~~(a) The hydrant or fire valve shall be eighteen (18) inches above the finished surface. Its location in relation to the road or driveway and to the building(s) or structure(s) it serves shall comply with California Fire Code, California Code of Regulations title 24, part 9, Chapter 5, and Appendix C.~~

~~(b) The hydrant head shall be a two and half (2 1/2) inch National Hose male thread with cap for pressure and gravity flow systems and four and a half (4 1/2) inch for draft systems.~~

~~(c) Hydrants shall be wet or dry barrel and have suitable freeze or crash protection as required by the local jurisdiction.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1275.04. Municipal Water System Hydrants and Fire Valves.

~~Signing of Water Sources~~

~~(a) The municipal hydrant or fire valve shall be eighteen (18) inches above the finished surface. Its location in relation to the Road or Driveway and to the building(s) or structure(s) it serves shall comply with California Fire Code, California Code of Regulations Title 24, Part 9, Chapter 5, and Appendix C.~~

~~(b) The municipal hydrant head shall sizes designated by the local jurisdiction, in consultation with the local fire authority, and shall have male American National Fire Hose Screw Threads (NH).~~

~~(c) Where municipal water supply hydrant systems are not practical due to the absence of a municipal water supply, or other limiting factors, a performance-based water supply alternative approved by the Local Jurisdiction, in consultation with the fire authority, shall be designed and installed to meet the minimum fire flow water supply requirements of 250 gallons~~

per minute (gpm) for two (2) hours.

~~(a) Each hydrant, fire valve, or access to water shall be identified as follows:~~

~~(1) if located along a driveway, a reflectorized blue marker, with a minimum dimension of three (3) inches shall be located on the driveway address sign and mounted on a fire retardant post, or~~

~~(2) if located along a road,~~

~~(i) a reflectorized blue marker, with a minimum dimension of three (3) inches, shall be mounted on a fire retardant post. The sign post shall be within three (3) feet of said hydrant or fire valve, with the sign no less than three (3) feet nor greater than five (5) feet above ground, in a horizontal position and visible from the driveway, or~~

~~(ii) as specified in the State Fire Marshal's Guidelines for Fire Hydrant Markings Along State Highways and Freeways, May 1988.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1275.05. Dry Hydrants

When dry hydrants have been approved by the local jurisdiction, the requirements of NFPA 1142 (2017) Chapter 8 (8.3, 8.4, 8.5, 8.6, 8.7 and 8.8) shall be met.

Note: Authority cited: Section 4290, Public Resources Code.

1 Reference: Sections 4290 and 4291, Public Resources Code.

3 § 1275.06. Mobile Water Supply (Water Tenders)

4 (a) Fire water delivery systems that rely on mobile water supply  
5 (water tenders) shall only be permitted under the following  
6 conditions:

7 (1) During the construction phase of a new development,  
8 prior to the permanent fire water delivery system installation;  
9 or,

10 (2) When the local jurisdiction determines that all other  
11 means of water supply is not practical.

12 (b) The mobile water supply shall, within 5 minutes of the  
13 arrival of the first apparatus on-scene, be capable of providing  
14 the apparatus with 250 gpm for a 2-hour duration.

15 (c) Mobile water supplies may use NFPA 1142 (2017) Annex C to  
16 achieve minimum fire flow requirements.

17 Note: Authority cited: Section 4290, Public Resources Code.

18 Reference: Sections 4290 and 4291, Public Resources Code.

20 § 1275.07. Protection of Water Supply Infrastructure from  
21 Wildfire.

22 (a) All water supply infrastructure shall be protected from  
23 wildfire radiant heat, convective heat, and embers by at least  
24 one of the following:

25 (1) underground burial; or



(2) construction of non-combustible materials, fittings and valves, such as concrete or metal; or

(3) maintenance of a 100-foot, slope-adjusted defensible space immediately surrounding the infrastructure; or

(4) placement within a building constructed to the requirements of the California Building Code (California Code of Regulations Title 24, Part 2) Chapter 7A.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

Article 5. Building Siting, Setbacks, and Fuel Modification Fuel Modification Standards

§ 1276.00. Applicability Intent

(a) All Building Construction subject to these standards shall comply with the following provisions of this Article: [§ 1276.02 \(Building and Parcel Siting and Setbacks\)](#); [§ 1276.03 \(Ridgelines\)](#); and [§ 1276.07 \(Disposal of Flammable Vegetation and Fuels\)](#)

(b) When Building Construction meets the criteria in [§ 1270.03\(c\) \(Scope\)](#), the following provisions of this article shall apply: [§ 1276.01 \(Design Plan\)](#); [§ 1276.02 \(Building and Parcel Siting and Setbacks\)](#); [§ 1276.03 \(Ridgelines\)](#); [§ 1276.04 \(Fuel Breaks\)](#); [§ 1276.05 \(Greenbelts, Greenways, Open Spaces and Parks\)](#); [§ 1276.06 \(Maintenance of Fuel Breaks\)](#); and [§ 1276.07 \(Disposal of Flammable Vegetation and Fuels\)](#).

~~To reduce the intensity of a wildfire by reducing the volume and density of flammable vegetation, the strategic siting of fuel modification and greenbelts shall provide for increased safety for emergency fire equipment and evacuating civilians by its utilization around structures and roads, including driveways, and a point of attack or defense from a wildfire.~~

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

§ 1276.01. Design Plan Setback for Structure Defensible Space

(a) Building Construction meeting the criteria in [§ 1270.03\(c\) \(Scope\)](#) shall provide a design plan or map that includes the proposed location of building envelopes; Defensible Space setbacks; Fuel Breaks and any access to them; Greenbelts, Greenways, and other open space or parks; Roads and Driveways access and access locations; topography, including slope or grade; and any proposed alternate performance-based standards for approval by the Local Jurisdiction.

(b) To the degree the information required in § 1276.02(a) is provided for on other maps or plans required by the Local Jurisdictions, those maps or plans may be used to satisfy this section.

~~(a) All parcels shall provide a minimum thirty (30) foot setback for all buildings from all property lines and/or the center of a road.~~

~~(b) When a thirty (30) foot setback is not possible for practical reasons, which may include but are not limited to parcel dimensions or size, topographic limitations, or other easements, the local jurisdiction shall provide for same practical effect.~~

~~(i) Same practical effect requirements shall reduce the likelihood of home-to-home ignition.~~

~~(ii) Same practical effect options may include, but are not limited to, noncombustible block walls or fences; five (5) feet of noncombustible material horizontally around the structure; installing hardscape landscaping or reducing exposed windows on the side of the structure with a less than thirty (30) foot setback; or additional structure hardening such as those required in the California Building Code, California Code of Regulations title 24, part 2, Chapter 7A.~~

~~(c) Structures constructed in the SRA are required to comply with the defensible space regulations in Title 14. Natural Resources Division 1.5. Department of Forestry and Fire Protection Chapter 7. Fire Protection Subchapter 3. Fire Hazard.~~  
Note: Authority cited: Section 4290, Public Resources Code. Reference: Sections 4290 and 4291, Public Resources Code.

§ 1276.02. Building and Parcel Siting and Setbacks. ~~Maintainence of Defensible Space Measures~~

(a) All parcels shall provide a minimum thirty (30) foot setback

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**Comment:** This is language from an existing section; suggested revisions are in strikeout/underline. Changes from existing text are in strikeout/underline, but in the 45-day notice all terms will be underlined pursuant to the APA.

for all ~~B~~ buildings from all property lines and/or the center of  
a ~~R~~ road.

(b) When a thirty (30) foot setback is not possible for  
practical reasons, which may include but are not limited to,  
parcel dimensions or size; topographic limitations; development  
density requirements or other development patterns that promote  
low-carbon emission outcomes; sensitive habitat; or other site  
constraints easements, the design plan or other documentation  
shall detail alternate methods approved by the Local  
Jurisdiction resulting in the same performance-based outcome.

(c) Alternate methods ~~Same practical effect options~~ may include,  
but are not limited to: non-combustible block walls or fences;  
five (5) feet of non-combustible material extending five (5)  
feet horizontally from the further extent of the building;  
installing hardscape landscaping or reducing exposed windows on  
the side of the structure with a less than thirty (30) foot  
setback; or additional structure hardening that exceeds the  
requirements in the California Building Code, California Code of  
Regulations Title 24, Part 2, Chapter 7A.

~~To ensure continued maintenance of commonly owned properties in~~  
~~conformance with these standards and to assure continued~~  
~~availability, access, and utilization of the defensible space~~  
~~provided by these standards during a wildfire, provisions for~~  
~~annual maintenance shall be provided in emergency access~~  
~~covenants or similar binding agreements.~~

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

~~§ 1276.03. Ridgelines. Disposal of Flammable Vegetation and  
Fuels~~

(a) The Local Jurisdiction shall identify strategic Ridgelines,  
if any, in consultation with the local fire authority. Strategic  
Ridgelines shall be identified through an assessment of the  
following factors:

(1) Topography;

(2) Vegetation;

(3) Proximity to any existing or proposed residential,  
commercial, or industrial land uses;

(4) Ability to support effective fire suppression; and

(5) Other factors, if any, deemed relevant by the Local  
Jurisdiction and local fire authority.

(b) Preservation of Ridgelines identified as strategically  
important shall be required.

(c) Building Construction on Ridgelines identified as  
strategically important is prohibited.

(d) The Local Jurisdiction may implement further specific  
requirements to preserved undeveloped Ridgelines.

~~Disposal, including chipping, burying, burning or removal to a  
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.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1276.04. Fuel Breaks ~~Greenbelts~~

(a) When Building Construction meets the criteria in § 1270.03(c) (Scope), the Local Jurisdiction shall determine the need and location for Fuel Breaks in consultation with the local fire authority.

(b) Fuel Breaks required by the Local Jurisdiction shall be located, designed, and maintained in a condition that reduces the potential of damaging radiant and convective heat or ember exposure to access routes, buildings, or infrastructure within Development.

(c) Fuel Breaks may be required at locations such as, but not limited to:

(1) Directly adjacent to Defensible Space to reduce radiant and convective heat exposure, ember impacts or support fire suppression tactics;

(2) Directly adjacent to Roads to manage radiant and convective heat exposure or ember impacts; increase evacuation safety; or support fire suppression tactics;

(3) Directly adjacent to a Hazardous Land Use to limit the

spread of fire from such uses; reduce radiant and convective heat exposure; or support fire suppression tactics;

(4) Strategically located along Ridgelines, in Greenbelts, or other locations to manage reduce radiant and convective heat exposure, ember impacts, or support community level fire suppression tactics.

(d) Where applicable, Fuel Breaks shall be consistent with the CAL FIRE Unit Fire Management Plan or Contract County Fire Plan.

(e) Fuel Breaks shall be completed prior to the commencement of any permitted construction.

(f) Fuel Breaks shall be constructed using the most ecologically and site appropriate treatment option, such as, but not limited to, prescribed burning, manual treatment, mechanical treatment, prescribed herbivory, and targeted ground application of herbicides.

(g) Fuel Breaks shall have, at a minimum, one point of access for fire fighters and any required equipment. The specific number of access points and access requirements shall be determined by the Local Jurisdiction in consultation with the local fire authority.

~~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.~~

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1276.05. Greenbelts, Greenways, Open Spaces and Parks

(a) Where a Greenbelt, Greenway, open space, park, landscaped or natural area, or portions thereof, is intended to serve as a Fuel Break, the space or relevant portion thereof shall conform with the requirements in [§ 1276.04 \(Fuel Breaks\)](#).

(b) Local Jurisdictions may require Greenbelts or Greenways or other open areas for the purpose of providing potential areas of refuge for the public or firefighters or other values.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1276.06. Maintenance of Fuel Breaks

(a) Annual maintenance requirements shall be included in the initial Fuel Break prescriptions to ensure the fire behavior objectives and thresholds are maintained over time.

(b) To ensure continued maintenance of commonly owned properties in conformance with these requirements and to assure continued availability, access, and utilization of the Fuel Breaks provided by these standards during a wildfire, provisions for annual maintenance shall be provided in emergency access covenants or similar binding agreements.



Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.

§ 1276.07 Disposal of Flammable Vegetation and Fuels

The disposal, including burning or removal to a site approved by the local jurisdiction of flammable vegetation and fuels caused by site development and construction, road and driveway construction and the cumulative effects of disposal methods shall be in accordance with all applicable laws and regulations.

Note: Authority cited: Section 4290, Public Resources Code.

Reference: Sections 4290 and 4291, Public Resources Code.