

FIRE DEPARTMENT ACCESS

OFFICE OF THE FIRE MARSHAL ZAYANTE FIRE PROTECTION DISTRICT

JEFF MAXWELL, FIRE CHIEF

7700 EAST ZAYANTE ROAD, FELTON, CA 95018, (831) 335-5100

R-3 PLAN REVIEW & INSPECTION CHECKLIST*

(For all new construction and/or for additions/remodels over 500 square feet)

FIRE DEPARTMENT ACCESS	REFERENCE
<u>DIMENSIONS</u> (T-14 1273; SC 7.92; 16.20; FPO 12)	
The minimum vertical clearance is:	
□ 15' for all new driveways in State Responsibility Area (SRA)	1273.10
□ 13' 6" for new roads & for new driveways in other areas	7.92.503.2.1
The minimum width is:	7.92.503.2.1
□ 20' if inside the Urban Services Line (USL) or unsprinklered	7.92.503.2.1
12' for 2 or less habitable structures outside the USL	7.92.503.2.1
□ 18' for 3+ sprinklered homes outside USL and for new roads in SRA or for 3+	7.92.503.2.1
□ 12' & paved w/ turnouts if not new road in SRA & 18' is "environmentally inadvisable"	7.92.503.2.1
□ 10' for one-way roads in SRA (if serving no more than 10 houses)	1273.08
The minimum centerline radius is:	1270.00
□ 50' inside radius in SRA	1273.04
35' centerline radius in other areas	16.20.180(c)
The length of any dead-end access in SRA does not exceed allotment for parcel(s) served thereby	1273.09
(800' for < 1 acre; 1320' for 1-4.99; 2640' for 5-19.99; 5280' for 20+ acres)	1273.03
CONSTRUCTION & GRADE (CFC 503; SC 7.92; 16.20; FPO 12; FPO 14; T-14 1273)	503.2.3
The access road has a 6" 95% compacted class 2 base w/ an 8" sub-base	7.92.502.1
The surface for the access road is:	7.92.302.1 FPO 14
☐ From 0-5% in grade is maintained to prevent erosion	FPO 14 FPO 14
Greater than 5% in grade is oil & screen	FPO 14 FPO 14
Greater than 5% in grade is oil & screen Greater than 15% is 2" of asphaltic concrete	FPO 14 FPO 14
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The grade does not exceed 15% for more than 200' every 235' &:	FPO 12
☐ It does not exceed 16% in SRA	1273.03
It does not exceed 20% in other areas (w/ no more than 18% average)	16.20.180(d)
TURNAROUNDS (CFC 503; SC 16.20.180; FPO 15; T-14 1273)	502.2.5
A turnaround is within 150' from all portions of all structures:	503.2.5
Non-SRA access has circular turnaround (12' entry & 36' radius) or T-style turnaround (16' entry, 86'	FPO 15
span, 51' wide, & 20' radius)	16.20.180(k)
SRA access has minimum 40' centerline radius on approved turnaround & is within 50' for driveways	1273.05
over 300' long	1273.10(b)
TURNOUTS (SC 7.92; FPO 13; T-14 1273)	7.92.503.2.1
Turnouts (12' wide & 35' long w/ 20' ease in & ease out) are present every:	7.92.503.2.1 &
500' for 12' access roads	FPO 13
□ 400' for driveways in SRA exceeding 800' in length	1273.06
<u>BRIDGES</u> (SC 7.92; FPO 13 & 16)	
The bridge capacity meets the AASHTO HS-20 loading standards (25 tons+)	7.92.503.2.6
A copy of the recent certification (within last 10 years by a licensed engineer) is provided	7.92.503.2.6.2 &
Capacity signs are at both ends (signs will be 18" x 24", steel, white w/ black lettering that is 3-1/2" by 3/8"	FPO 8 & FPO 13
stroke minimum, with the weight limit posted above TONS)	
The bridge meets road dimension requirements & has turnouts if it is less than 20' wide GATES (CFC 503; T-14 1273)	7.92.503.2.6.1
There is horizontal clearance (no obstructions and 2' wider than access in SRA)	503.6 & 1273.11
There is 14' vertical clearance or 15' vertical for overhead gates	JUJ.U & 1213.11
	AHJ & 1273.11
If secured, it has a master 175 lock w/ FD's code, an override switch, or break-away lock	
It is located at least 35 feet from the primary road and does not create traffic obstruction RIGHT-OF-WAY AGREEMENT (GP 6.5.1)	1273.11
Owner provided copy of road maintenance agreement for parcel served by right of way	6.5.1(m)

RIRE ELOW REQUIREMENTS (CFC 508, Appendix B; FPO 6; NFPA 1142; SC 7.92) 508.3 & 8 105.1		
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Water Storage Tank (Permit Required)		
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		FPO 6
A copy of the pump acceptance test certificate is provided at the inspection FPO 6		
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SPRINKLER SYSTEMS	REFERENCE
DIANGUENTAL (D. K.D. I. IV. (050 000 00 500 NEDA (0D 500 5)	
PLAN SUBMITTAL (Permit Required) (CFC 903; SC 7.92; NFPA 13D; FPO 5) The project is new construction or increases the total existing square footage by more than 50%	7.92.903.2.1
(Exception: agricultural buildings < 2000 sq. ft & garages/sheds < 1000 sq. ft.)	
There are 3 copies of the plans & calcs, and 1 copy of applicable cut-sheets	FPO 5; AHJ
Piping and heads are highlighted or in a contrasting color The ceiling slope percentages are indicated	AHJ AHJ
The plan shows all heat zones (WH, stove/range, laundry, FP, light fixtures, etc.)	AHJ
The plan indicates that all components (heads, piping, straps, valves, etc.) are UL listed	FPO 5 & 13D
The system was designed by a FPE, C-16 installer, or owner/builder (cslb.ca.gov)	FPO 5 & 13D
There are no variations to plans or as-built plans are required prior to overhead rough inspection <u>UNDERGROUND PIPING</u> (Permit Required) (Must be installed by the C-16 designer)	FPO 5
There is a minimum 2" (or as approved by AHJ) supply line to the riser dedicated to the sprinkler system	FPO 5
The supply line is at least 18" below grade and is Schedule 40 PVC or better	FPO 5
The transition fittings are a minimum of 6" below grade and are Schedule 80 or better	FPO 5
The piping from the transition to the riser is metallic & the below grade pipe is wrapped	FPO 5
There are concrete thrust blocks at directional changes The piping passes a hydrostatic test at working pressure for 15 min.	FPO 5 FPO 5
The piping passes a hydrostatic test at working pressure for 13 min. The piping is flushed before backfill and then capped or attached to riser after the flush	FPO 5
A copy of underground test certificate is provided at the inspection	FPO 5
RISER & INSPECTOR TEST ASSEMBLY & ALARM	
All exterior above grade piping is metallic	FPO 5
The riser is located on or adjacent to the garage The riser has a labeled control valve below the domestic line or a shut-off at a single source water meter	FPO 5 FPO 5
There is a check valve above the domestic line (if there is no municipal detector on meter)	FPO 5
There is a flow switch above the domestic line	FPO 5
The pressure gauge is above the check valve	FPO 5
There is a main drain with a separate valve and signage	FPO 5
The inspector's test valve is piped from the most remote area There is an accessible shut-off at ground level with an "inspector's test" sign	FPO 5 FPO 5
The pipe has a test head of the same size orifice used in the house	FPO 5
Discharging water through the test head does not damage the surrounding area	FPO 5
There is a 110-volt alarm, connected to a regularly "on" electric circuit, with a 6" bell	FPO 5
The alarm sounds within 90 seconds of the inspector's test valve flowing at least 10 GPM OVERHEAD PIPING AND SUPPORT	NFPA 72 2-6
The connection from underground to overhead must be made by the sprinkler installer	FPO 5
The piping is at least 3/4" (copper, steel, CPVC, or other listed and approved material)	FPO 5 & NFPA
	13D
The piping is secured by straps/supports every 6', and straps are within 6" of every head	FPO 5
The straps are properly attached (with screws) The piping passes a hydrostatic test of at least 200 psi for 2 hours	FPO 5 FPO 5
A copy of aboveground test certificate is provided at the inspection	FPO 5
HEADS	
Heads provide coverage in all habitable areas that do not fall within exceptions:	FPO 5 &
(Exception: bathrooms < 55 sq. ft.; clothes, linen & pantry closets < 24 sq. ft. if least dimension is no more	13D 4-6
than 3 ft.; unheated foyers that are not the only egress; detached garages, carports under 1000 sq. ft.; and agricultural buildings)	
Head(s) protect accessible non-habitable storage areas (includes under staircases)	FPO 5
Heads have the proper temperature rating (intermediate heads are required in accessible attics & areas with	13D 3-5.2
higher temperatures)	
The heads are not too close to heat sources	13D 3-5.2.3
The heads are no closer than 8' together and no further than' apart (per cut sheet) The discharge from the heads will not be unduly affected by obstructions	13D 4-1.4 13D 4-2.3
The heads and escutcheon plates have factory paint only	13D 3-5.4
CALCULATIONS OF WATER SUPPLY	
The water supply (static, resid., & gpm) is verified by water district or private test affidavit	13D 8.4.4
There are calculations of the most demanding heads: 1 & 2 heads or 3 heads The water can supply the design area for 10 min. (7 min. for 2 heads in 1 story house that is less than 2000.	13D 4-1.2.1
The water can supply the design area for 10 min. (7 min. for 2 heads in 1-story house that is less than 2000 sf.)	13D 4-1.3 & 13D 2-1
The density (discharge GPM ÷ sq. ft. covered) is .05 or greater & matches cut sheet	13D
The GPM, PSI, orifice size, k factor & coverage areas match those on the cut sheet(s)	13D
All friction loss, pipe diameter and elevation changes, and pipe length are accounted for	13D
SPARE HEADS & WRENCH There is a 6-head box within vicinity of the riser that has a sprinkler head wrench & 3 spare heads of each	FPO 5
type used (but only need 1 if only 1 of that type used)	1100

FIRE SAFETY INSIDE & OUT	REFERENCE
CMOVE DETECTORS (CEC 007, SC 7 02, CBC 007)	
SMOKE DETECTORS (CFC 907; SC 7.92; CBC 907) All detectors are hardwired w/ battery back-up	907.2.10.2
All smoke detectors are interconnected	907.2.10.2
There is a detector in every bedroom & corridor	907.2.10.1.2
There is at least one detector on every floor	907.2.10.1.2
The detectors are properly mounted (4"-12" from ceiling, not too close to heat source)	907.2.10.1.2
Detector alarm sounds within 20 seconds of smoke entering chamber	AHJ
The alarm sounds over ambient noise (at least 85 dba at 10') (visual notification is required in rooms with	907.2.10.3
hearing impaired)	307.2.10.0
SECOND EGRESS (CBC 1004)	???????
The project is one-story, or the 2 nd story has < 10 occupants, or the 3 rd floor is ≤ 500 sf	1004.2.3.2
There is a second egress off floor(s)	ld. at ex.4
CHIMNEYS (CBC; PRC 4291)	1109.7 &
There is an approved spark arrestor with a nonflammable ½" (or smaller) mesh screen	4291(f)
ROOFS (SC 12.10.070)	1201(1)
The building has the required fire resistive roofing material:	
☐ Class A (in all extra-high fire hazard area)	
☐ Class B (in all other areas)	12.10.070m
ADDRESSING (CFC 901; FPO 17; T-14 1274)	CFC 901.4.4
The address numbers are visible from the road, traveling either direction	FPO 17
The address numbers are permanently affixed	ld.
The address numbers are 4" high by 1/2" wide on contrasting background	ld.
The sign or numbers are reflective or lit so address can be seen at night	AHJ
The address is located at all driveway/road splits with directional signs as needed, and	AHJ, 1274, FPO 17
separate utility meters for separate dwellings are identified by address numbers at least 1" high and	, ,
permanently affixed	
<u>VEGETATION CLEARANCE</u> (CFC 1103; PRC 4291; 7.92.5215)	1103.2.4
All dried vegetation is cleared from around all structures	4291(a)&(b)
□ 100' clearance	Ìd.
The tree branches are clear 10' from a chimney outlet	4291(c)
Any dead/dying tree branches are clear 10' from the structure	4291(d)
The roof is clear of all combustible debris	4291(e)
All combustible debris under decks is cleared	4291(a)
Any combustible vegetation near roadway is cleared 10' from roadway & limbed 6-8' from the ground (but	FPO 12 &
see ornamental exceptions)	7.92.5215
LPG TANKS (Permit Required) (CFC Article 82)	
The tank is properly oriented (ends are not pointing towards residence or egress route)	8204.3
There is proper distance from buildings, public ways, ignition sources & property lines	8204-A
□ Less than 125 gallons: 5'	ld.
□ 125-500 gallons: 10'	ld.
501-1200: 10' (but only if at least 25' from containers more than 125 gallons)	ld.
□ 501-2000: 25' if it does not satisfy above criteria	ld.
Combustibles (weeds, grass, brush, trash, etc.) are cleared within 10' from the tank	8209
There is a no smoking sign posted/painted on/near the tank	8208, AHJ
The tank is protected from vehicles (not near an access route or guard posts are installed)	8210

References: California Fire and Building Codes (CFC & CBC), Santa Cruz County Code (SC), Public Resources Code (PRC), California Code of Regulations, Title 14 (T-14); Santa Cruz Fire Prevention Officers' Standards (FPO), Santa Cruz County General Plan (GP), National Fire Protection Association Standards (NFPA), Authority Having Jurisdiction Standards (AHJ)

^{*} This checklist is not intended to be a comprehensive list of all potential requirements, nor is it intended to alleviate all parties' responsibilities to fully comply with all applicable laws for each project. It merely reflects the major areas encountered at the fire plan review and inspection stages for residential projects.