

SANTA ROSA FIRE DEPARTMENT

FIRE PREVENTION BUREAU

PLAN REVIEW CHECKLIST

July 1, 2010



UTILITY, ENCROACHMENT, CIP OR UTILITY CERTIFICATE REVIEW FOR WATER SUPPLY

| | | |
|--|-------|-----------|
| Address: | | Permit #: |
| Inspector: | Date: | Status: |
| Inspector: | Date: | Status: |
| A-Approved; AC-Approved w/comments; I-Incomplete; D-Denied | | |

This Checklist outlines general requirements. Information contained herein applies to typical instances and may not address all circumstances.

FILE REVIEW

- | | | | |
|----|--------------------------|--------------------------|---|
| | Y | N | |
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | PERMITS PLUS - Access Permits Plus, search by street address or project name to identify previous review activity at the Subdivision, Planning or Engineering level. |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | SUBDIVISION MAP CONDITIONS - Review subdivision specific conditions and history. Are fire sprinklers conditioned? Is there an alternate method request/approval? |
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | WUI – Determine if the project is in the Wildland Urban Interface. If so, check to see if a Hillside Development Plan was reviewed and collect those conditions. |

PLAN REVIEW

- | | | | |
|-----|--------------------------|--------------------------|---|
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | WATER SUPPLY – SRCC 18-44.508.1. Estimate the fire flow required with the information provided. |
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | Check fire flow availability from the Utility Map and GIS. |
| 6. | <input type="checkbox"/> | <input type="checkbox"/> | If fire flow cannot be determined because of lack of information, request a fire flow analysis of the project. |
| 7. | <input type="checkbox"/> | <input type="checkbox"/> | If the capability of the utility system to support the required fire flow is questionable, request the applicant supply a hydraulic analysis. |
| 8. | <input type="checkbox"/> | <input type="checkbox"/> | If undesignated; for One & two family dwellings minimum of 1500 gpm unless if located in the WUI where 2500 gpm minimum is required. |
| 9. | <input type="checkbox"/> | <input type="checkbox"/> | Multi-family and commercial minimum is 2500 gpm whether located in or out of WUI. |
| 10. | <input type="checkbox"/> | <input type="checkbox"/> | Coordinate with Utilities on the best location for connections or taps that will develop the necessary flow and potentially improve looping. |
| 11. | <input type="checkbox"/> | <input type="checkbox"/> | Dead-end water mains of 8" diameter or smaller must have a hydraulic analysis to demonstrate capability. |

Plan Review

Utility, Encroachment, CIP or Utility Certificate Review For Water Supply

- | | Y | N | |
|-----|--------------------------|--------------------------|--|
| 12. | <input type="checkbox"/> | <input type="checkbox"/> | FIRE HYDRANTS – SRCC 18-44.508.5. Fire hydrants shall be spaced along City streets at 500 feet in residential areas and 300 feet in commercial areas. |
| 13. | <input type="checkbox"/> | <input type="checkbox"/> | Hydrant style: One & two dwellings can utilize the residential hydrant. Multi family residential and commercial must install the commercial (double steamer) hydrant. |
| 14. | <input type="checkbox"/> | <input type="checkbox"/> | Special note, 300 foot spacing for One & Two Family within the WUI. |
| 15. | <input type="checkbox"/> | <input type="checkbox"/> | Check the location of the hydrants and relationship to fire department expected access route, relocate hydrants at the head of cul-de-sac's and at the end of long commercial driveways. |
| 16. | <input type="checkbox"/> | <input type="checkbox"/> | If a divided street, hydrants are required along both sides of the street and also staggered. |
| 17. | <input type="checkbox"/> | <input type="checkbox"/> | Where flag lots are present and homes are set back from the street, a fire hydrant must be located within 150 feet of all points of the first story as measured by an unobstructed route or an on-site fire hydrant is required. |
| 18. | <input type="checkbox"/> | <input type="checkbox"/> | Private fire hydrant design and installation is a separate permit issued by the Fire Department. If the system is private, ensure that the plan specifies to submit to the Fire Department for review, approval and permit. If not, use the encroachment permit stamp (provided by fire). |
| 19. | <input type="checkbox"/> | <input type="checkbox"/> | FIRE SPRINKLERS – SRCC 18-16.903.2, 903.2.18. Noted on plan if conditioned as part of the subdivision conditions or as part of an approved alternate method request. |
| 20. | <input type="checkbox"/> | <input type="checkbox"/> | An approved fire sprinkler system shall be installed in all new buildings. See 903.2.18.1 for exceptions related to Group U, pool houses, detached garages, motor vehicle fueling, non-combustible carports and B & M occupancies less than 500 ft ² . |
| 21. | <input type="checkbox"/> | <input type="checkbox"/> | WATER CONNECTION – Check the location of the double detector check (DDC), check the proximity to fire department access. If yard hydrants are present, do not permit a FDC on the backside of the DDC. If the DDC is only supplying fire sprinklers, an FDC on the back of the DDC is permissible if it is congruent with fire department operations. |
| 22. | <input type="checkbox"/> | <input type="checkbox"/> | RESIDENTIAL METER SIZING – For one and two family dwellings, check the meter size and the lateral (corporation stop to meter box) to ensure that it will supply residential fire sprinkler system. |