

This is intended to provide uniform application of the codes by the plan check staff and to help the public apply the codes correctly.

NOTES ON PLANS

- 1. Plans shall bear the registration or license number and signature of an architect, contractor, or engineer, registered in the appropriate classification by the State of California. (94.101.3.2, 94.101.3.6, 94.103.2.2)
- 2. Indicate the job address on each page of the plans. (94.101.3.1, 94.103.2.3)
- 3. Indicate on the plans the piping materials. (94.0701.0)
- 4. Provide air tight cover for the sump. (94.710.10)
- 5. Show load discharging into the sump.(94.101.3.1, 94.103.2.3)
- 6. Show the make, model, and horse power of the pump on the plans. (94.101.3.1, 94.103.2.3)
- 7. State the length of the pipe from the pump to the gravity line, and the elevation difference between the bottom of the sump and the gravity line. (94.101.3.1, 94.103.2.3)
- 8. Sump(s) shall be made of concrete, metal or other approved materials. Fiberglass sumps shall be approved by the Los Angeles City Mechanical Testing Laboratory, or other City of Los Angeles recognized agency. (94.710.8, 94.103.4, 94.101.15.4)
- 9. Please specify the type of material of the sump on the plans, or specify make, model and research report number of the prefabricated sump. (94.101.15.4, 94.101.15.5)
- 10. The sump pit shall be at least 15 inches in diameter and 18 inches in depth. (Rain water only) (94.1101.5.3)
- 11. Provide an approved modification (variance) from Grading allowing the site drainage to drain into a sump system. (91.7013.10)

PLAN DETAILS

- 1. Provide a riser diagram showing the sump, sump inlet & outlet check valves and gravity line. (94.101.3.1, 94.103.2.3)
- 2. Show size, length and type of material of the pump discharge line. (94.101.3.1)

- 3. The discharge line from the ejector or sump pump shall be provided with an accessible check valve and gate valve. (94.710.4)
- 4. The gate valve shall be located on the discharge side of the check valve. Gate valve and check valve shall be located outside the pit. (94.710.4)
- 5. Provide dual pumps each capable of handling the load independently. (94.710.9)
- 6. Sump(s) shall be provided with a vent pipe which shall extend through the roof. (94.710.7)
- 7. Show high water level. It shall be at least 2 inches below the lowest inlet.(94.710.9)
- 8. Sumps receiving waste from water closets shall have a minimum 2 inch discharge (single family dwelling). 3 inch discharge is required for commercial buildings.(94.710.3)
- 9. The discharge line from the sump shall be at least 1 ½ inch diameter. (Subsoil only) (94.1101.5.3)
- 10. Backwater valves shall be installed to prevent flooding of the garage from outside water. (Subsoil and Rain water only) (94.1105.5.5)
- 11. Show all pipe sizes on the plan. (94.101.3.1, 94.103.2.3)

CALCULATIONS

- 1. Provide pump performance curve.(94.101.3.1, 94.103.2.3)
- 2. Provide calculations for the system curve. Take into consideration all the fittings, gate valve and backwater valve.
- 3. Draw the system curve on the pump curve to determine the point of intersection, which will determine the volume flow coming out of the pump.
- 4. Determine the fixture unit loading of the gravity drain by allowing two (2) fixture units for every gallon per minute pumped by the sewage ejector. (94.703.2)
- 5. Determine the square footage loading of the gravity drain by allowing 47.62 square feet of area for every gallon per minute pumped by the sump pump.(LAPC Table D-1)
- 6. The pump shall have a discharge capacity of not less than 15 gpm. (Subsoil drainage only) (94.1101.5.3)
- 7. The pump shall have a discharge capacity of not less than 20 gpm. (Sewage ejectors) (94.710.3.1)