



**PLAN CHECK CORRECTION SHEET
FOR PLUMBING SYSTEMS
2023 LAPC**

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

Section: Mechanical Plan Check

Plan Check/PCIS Application No.: _____ **Date:** _____

Job Address: _____

Applicant Name: _____

Address: _____ **Phone:** _____

City/State/Zip: _____ **E-mail:** _____

Plan Check Engineer: _____

Telephone: _____ **E-mail:** *firstname.lastname@lacity.org*

Your feedback is important; please visit our website to complete a Customer Survey at www.ladbs.org/LADBSWeb/customer-survey.jsf.

If you have any questions or need clarification on any plan check matters, please contact a plan check supervisor or call our Customer Hotline at (213) 482-0056.

Your plans have been examined and the issuance of a permit is withheld for the reasons set forth. The approval of plans and specifications does not permit the violation of any section of the Code, or other local ordinance or state law.

INSTRUCTIONS:

- Corrections with circled item numbers apply to this plan check.
- Additional corrections are at the end of the list.
- Incomplete or non-legible drawings or calculations will not be accepted.
- Incorporate all comments as marked on the checked set of plans and calculations and this correction sheet.
- For each correction indicate the sheet number and detail or note number on the plans where the corrections are made.
- **WHEN YOU HAVE COMPLIED WITH ALL CORRECTIONS, CALL OR EMAIL THE PLAN CHECK ENGINEER TO MAKE AN APPOINTMENT FOR VERIFICATION**
- **PLEASE BRING THE MARKED UP PLANS AND THE CORRECTIONS SHEET TO THE VERIFICATION APPOINTMENT**

SEE MARKED UP PLANS FOR CLARIFICATIONS OF CORRECTIONS.

GENERAL REQUIREMENTS

1. Plans shall bear, on every sheet, the registration or license number and signature of an architect, contractor, or engineer, registered in the appropriate classification by the State of California. (State of California Business and Professional Code Div. 3, Chap. 7, Art. 3, Sec. 6735.4; LAPC 101.5.2; LAPC 101.5.6; LAPC 103.2.1)
2. Sign every sheet of the plans (LAPC 101.5.2)
3. Show the job address on each sheet of the plans. (LAPC 101.5.1; LAPC 103.2.2)
4. Indicate on the plans the scope of the work to be done. (LAPC 103.2.2)
5. Plans shall be legible, and the drawing scale shall not be smaller than 1/8 inch per foot. (LAPC 101.5.4)
6. Provide an approved "Request for Modification of Building Ordinances" form to allow plans at a scale smaller than 1/8 inch per foot. (LAPC 101.5.4; LAPC 103.2.2)
7. Add the following Note onto the Plans: "All new buildings are required to be All-Electric. There shall be no combustion equipment, plumbing for combustion equipment, gas piping, or fuel gas serving any use including, but not limited to, space heating (including fireplaces), water heating (including pools and spas), cooking appliances (including barbeques), and clothes drying, within the building or building property lines, and instead uses electricity as the sole source of energy for all lighting, appliances and/or equipment, including, but not limited to, space heating, water heating, cooking appliances, and drying appliances". (LA City Ordinance 187714, LAGBC 4.106.8, LAGBC 5.106.14)

POTABLE WATER SYSTEM

NOTES ON PLANS

- P1. Add the following note on the plans: All fixtures, equipment, piping, and materials shall be listed. (LAPC 103.2; LAPC 301.2)
- P2. Add the following note on the plans: All plumbing

fixtures shall meet the flow requirements specified in the Los Angeles Plumbing Code Chapter 4 (LAPC 407.2; 408.2; 411.2; 412.1; 414.4; 414.5; 417.1; 420.2)

- P3. Add the following note on the plans: All faucets in public restrooms shall be self-closing or self-closing metering faucets. (LAPC 407.2.4)
- P4. Add the following note on the plans: "Water pipe and fittings with a lead content which exceeds 0.25% shall be prohibited in systems conveying potable water" (LAPC 604.2).
- P5. Specify which fixtures are for private use and which are for public use. (LAPC 103.2.2; Table 610.3; Table A103.1; Table 702.1)
- P6. Specify the piping materials for the domestic water system. (LAPC 604.0)

PLAN DETAILS

- P7. CPVC plumbing material shall comply with all applicable requirements of the code and the manufacturer's installation instructions. (LAPC 604.1.1; LAPC 101.5.1; LAPC 103.2.2)
- P8. Provide the manufacturer specifications and installation instructions for the pipe material. (LAPC 101.5; LAPC 103.2.1)
- P9. Provide calculations and details on the plans for the expansion loops. Show the expansion loops on the floor plans. (LAPC 103.2.1; LAPC 103.2.2)
- P10. Provide site water piping plans (LAPC 101.5.4; LAPC 103.2.2).
- P11. Provide lot subdivision. Water pipes shall not cross lot lines. (LAPC 609.6)
- P12. Install a control valve in the domestic water supply to each building (LAPC 606.2).
- P13. Provide riser diagrams for hot & cold water systems (LAPC 101.5.3; LAPC 103.2.1).
- P14. The riser diagram shall indicate all the fixtures served the pipe sizes and the fixture unit count on each leg of pipe, pressure regulators, back flow prevention devices, and water meter. (LAPC

- 101.5.3; LAPC 103.2.1)
- P15. Show the size of a water meter on the riser diagram. (LAPC 101.5.3; LAPC 103.2.1; LAPC 610.1)
- P16. (A) Show all new and all existing devices located between the city water service and the building plumbing system that cause pressure losses or gains in the system. Devices shall include but not be limited to pumps, water softeners, tankless water heaters, submeters, and other similar devices. (LAPC 101.5.1; LAPC 103.2.2; LAPC 610.2)
 (B) State the make(s), model(s), and size(s) of the devices shown in item (A), and indicate if they are new or existing. (LAPC 101.5.1; LAPC 103.2.2; LAPC 610.2)
 (C) Provide manufacturer=s specification sheets for the devices shown in item (A) indicating the pressure loss versus the flow. (LAPC 101.5.1; LAPC 103.2.1; LAPC 610.2)
- P17. Indicate on the plans, all fixture unit loads in addition to the loads of the new fixtures including but not limited to, existing fixtures, irrigation load, make up water for cooling towers and boilers, demand for future use, and any other uses. (LAPC 101.5.3; LAPC 103.2.2; LAPC Appendix A Sect. A103.0)
- P18. Show the future water demand.(LAPC Appendix A Sec. A103.0)
- P19. Provide on the plan a table with calculations for the total number of fixture units to be installed. Table shall indicate the total of each type of fixture, the associated hot and/or cold fixture unit value for each, total contribution of hot and cold fixture units in the system and the total number of fixture units in the building. (LAPC 103.2.2)
- P20. Indicate on the plans the type of the water closets and urinals (tank or flushometer valves) used. (LAPC 103.2.2; LAPC 610.0; LAPC Table 610.3; LAPC Appendix Table A103.1)
- P21. An approved pressure regulating valve (PRV) shall be installed to reduce the water pressure at any fixture to 80 psi or less. (LAPC 608.2)
- P22. The pressure regulating valve (PRV) shall be accessibly located aboveground or in a vault
- equipped with a properly sized and sloped drain to daylight. The PRV shall not be installed in a pit where it can become submerged in water. (LAPC 608.2)
- P23. Show make(s), model(s) and size(s) of the PRV(s) on the plans. (LAPC 101.5.3; LAPC 103.2.2, LAPC 608.2)
- P24. Provide a copy of the manufacturer=s catalog for the PRV(s) used showing pressure drop through them. (LAPC 608.2)
- P25. Provide a reduced pressure back flow device (RP) at the meter. (LAPC 603.0; Table 603.2; and DWP Rule 16D)
- P26. The reduced pressure back flow device (RP) shall be installed at least 12 inches above grade or finished floor. The RP shall not be installed in a pit where it can become submerged in water. (Table 603.2; LAPC 603.4.3)
- P27. Show make, model and size of the RP on the plans. (LAPC 101.5.3; LAPC 103.2.1; LAPC 610.2)
- P28. Provide a copy of the manufacturer=s catalog for the RP used showing pressure losses. (LAPC 101.5.1; LAPC 103.2.1; LAPC 610.2)
- P29. Indicate the type, size and capacity of the water heater(s) and water storage tank(s). (LAPC 103.2.2; LAPC 608.2)
- P30. Gas water heaters shall not be installed in newly constructed buildings (LA City Ordinance 187714, LAGBC 4.106.8, LAGBC 5.106.14)
- P31. State the first hour rating (in gallons) of the water heater and the number of bathrooms and bedrooms. (LAPC 501.1; Table 501.1(1))
- P32. Provide the manufacturer=s printed sizing and installation instructions on the tank-less water heater. (LAPC 501.1)
- P33. Provide a temperature & pressure relief valve on the water heater. The valve shall discharge to an approved location. Pressure relief valves for water heaters installed inside a building shall discharge to a floor drain, floor sink or similar fixture. (LAPC 608.3; LAPC 608.4)

- P34. Provide an approved thermal expansion tank at the water heater. Show the expansion tank on the riser diagram. (LAPC 608.2; LAPC 608.3)
- P35. State make and model of the thermal expansion tank. (LAPC 608.2; LAPC 608.3)
- P36. Provide the manufacturers sizing instructions for the thermal expansion tank. (LAPC 101.5.1; LAPC 103.2.2; LAPC 608.2; LAPC 608.3)
- P37. Showers shall be provided with individual tempering valves. (LAPC 408.3)
- P38. State make, model, rated pressure, and gpm of the water pump(s). (LAPC 103.2.1; LAPC 608.1)
- P39. Provide the pump performance curve for the water pump(s) being used. (LAPC 103.2.1)
- P40. The pump systems shall be approved by the City of Los Angeles Mechanical Testing Laboratory or other recognized agency. (LAPC 301.2)
- P41. (A) The heat exchanger shall be listed, double wall type and the space between the two walls shall be vented to the atmosphere. (LAPC 603.5.4)
(B) State on plans the heater transfer medium. The medium shall be either potable water or fluids with toxicity rating of 1. (LAPC 505.4.1)
- P42. Install solar water heating system with a minimum solar savings fraction of either a or b below:
- a) minimum solar savings fraction of 0.2 in Climate Zones 1 through 9 or 0.35 in Climate Zones 10 through 16.
 - b) a minimum solar savings fraction 0.15 in Climate Zones 1 through 9 or 0.30 in Climate Zones 10 through 16. In addition, a drain water heat recovery system that is field verified as specified in the Reference Appendix RA3.6.9. (Title 24, Part 6 140.5 (b); 170.2(d)3.C.i and ii)
- P43. Instead of providing a solar water heating system, submit an energy budget (Title 24 140.1; 150.1(a); 170.1)
- P44. Domestic water heating system shall comply with Title 24 section 150.1(c)8. (Title 24 Sec.150.1(j, n); 110.3, 120.3, 120.8, 120.9)
- P45. New multiunit residential buildings or residential portions of newly constructed mixed use buildings shall be provided with sub-meter within each individual dwelling unit (LAPC 601.2.2)
- P46. The hot water system shall comply with one of the following:
- A. The hot water system shall not allow more than 0.6 gallons of water to be delivered to any fixture before hot water arrives; (LAPC 610.4.1.1)
 - B. Where a hot water recirculation or electric resistance heat trace wire system is installed, the branch from the recirculating loop or electric resistance heat trace wire to the fixture shall contain a maximum of 0.6 gallons; (LAPC 610.4.1.2) or
 - C. Residential units having individual water heaters shall have a compact hot water system where the total developed length of pipe from the water heater to the farthest fixture does not exceed the values in Table 3.6.5 of the 2013 CEC Reference Appendices (Residential Appendices) (LAPC 610.4.1.3)
- P47. When City-recycled water is available for use within 200 feet of the property line, 100 percent of water for water closets, urinals, floor drains, and process cooling and heating in that building shall come from City-recycled water. Contact the Department of Water and Power (DWP) to provide written verification on the availability of recycled water. DWP may be contacted at the following e-mail: Gabriel.Vargas@ladwp.com. (LAGBC 4.305.2; LAGBC 5.305.2)
- P48. Recycled water systems shall be designed and installed in accordance with the Los Angeles Plumbing Code. (LAGBC 4.305.2; LAGBC 5.305.2)
- P49. Cooling towers in all commercial buildings shall comply with one of the following:
- A. A minimum of 6 cycles of concentration (blowdown); or
 - B. A minimum of 50% of makeup water shall come from non-potable water sources, including treated backwash. (LAGBC 5.305.2)
- P50. Cooling towers in all residential buildings 25 stories or less shall comply with one of the following:
- A. A minimum of 6 cycles of concentration (blowdown); or
 - B. A minimum of 50% of make-up water supply

shall come from non-potable water sources, including treated backwash. (LAGBC 4.305.3.1)

- P51. Cooling towers in residential buildings over 25 stories shall comply with all of the following:
- A. A minimum of 6 cycles of concentration (blowdown); and
 - B. 100% of make-up water supply shall come from non-potable water sources, including treated backwash. (LAGBC 4.305.3.2)
- P52. New commercial buildings or additions in excess of 50,000 ft² shall install separate submeters or meters as follows:
- A. For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gallons per day.
 - B. Where potable water is used for industrial/process uses, for water supplied to the following subsystems:
 - a. Makeup water for cooling towers where flow through is greater than 500 gpm.
 - b. Makeup water for evaporative coolers greater than 6 gpm.
 - c. Steam and hot-water boilers with energy input more than 500,000 Btu/h.
 - C. For each building that uses more than 100 gallons per day on a parcel containing multiple buildings. (LAGBC 5.303.1.1)

CALCULATIONS

- P53. Provide hydraulic calculations for sizing the cold and hot water systems. (LAPC 103.2.1; LAPC 610.0; LAPC Appendix A)
- P54. The minimum water pressure supplied to the most remote fixture shall be not less than the requirements of that fixture and not less than 15 PSI, whichever is higher. (LAPC Appendix A A104.1; LAPC 608.1)
- P55. Clearly identify each hydraulic design zone on the riser diagram. Show any node points on the riser used in the calculations. (LAPC 103.2.2)
- P56. For each zone, provide hydraulic calculations showing the pressure losses from the city main to the pressure reducing valve for each zone. (LAPC 610.0)
- P57. Provide pipe sizing charts for each zone. (LAPC 103.2.1; LAPC 103.2.2)
- P58. For each down-feed zone, provide calculations for

the highest and lowest floors in the zone to show that the pipe sizing chart is adequate for every floor in the zone and that no more than 80 psi is delivered to any point in the zone. (LAPC 608.2)

OSHPD 3 REQUIREMENTS

- P59. Add the following note: "Sensor operated flush valves shall be capable of functioning during loss of normal power. (LAPC 413.2)
- P60. CPVC piping is not allowed. Change the piping material to an approved one. (LAPC 604.1)
- P61. Install a sectional valve at each riser or branch both in hot and cold water systems. (LAPC 606.8)
- P62. State on the plans at which temperature hot domestic water is supplied. It shall be in compliance with Table 613.1 (LAPC 613.0)
- P63. Provide at least two sources of hot water equipment to supply hot water for dishwashing and minimum patient services such as hand washing and bathing. (LAPC 613.2)
- P64. Install valves to automatically control the temperature of hot water to fixture used by patients within the range of 105°F to 120°F. (LAPC 613.5)
- P65. Hot water serving patient care areas shall have a continuous recirculating system. (LAPC 613.6)
- P66. Non-recirculated fixture branch piping shall not exceed 25 feet. (LAPC 613.6)
- P67. Dialysis water feed lines shall be made out of material allowed by Section 614.1 (LAPC 614.1)

WASTE AND VENT SYSTEM

PLAN DETAILS

- W1. Specify the slope of the horizontal drainage piping. (LAPC 708.1)
- W2. Provide site plans showing the building sewer and the city sewer main size. (LAPC 101.5.3; LAPC 103.2.2)
- W3. Provide lot subdivision. The building sewer shall not cross lot lines. (LAPC 721.1)
- W4. Provide complete riser diagrams for the waste and vent systems. The waste system shall extend to the property line. (LAPC 101.5.1; LAPC 101.5.3; LAPC 103.2.2)

- W5. The riser diagram shall show all the fixtures served, the pipe size, and the fixture unit count on each branch of pipe. (LAPC 101.5.3; LAPC 103.2.2)
- W6. Indicate on the plans the piping materials. (LAPC 701.2)
- W7. Show all pipe sizes on the plan. (LAPC 101.5.3; LAPC 103.2.1)
- W8. Show size of the sewer main in the street. (LAPC 101.5.3; LAPC 103.2.1)
- W9. Provide suds relief (show them on the riser). (LAPC 711.1)
- W10. Clearly indicate on the plans the waste stacks that carry the discharge of suds producing fixtures. (LAPC 711.1)
- W11. The aggregate cross sectional area of the vent shall not be less than that of the largest required building sewer. (LAPC 904.1)
- W12. Pot sinks, scullery sinks, dishwashing sinks, silverware-washing machines, commercial dishwashers, shall be directly connected to the drainage system. Provide a floor drain adjacent to the fixture with the fixture connected on the sewer side of the floor drain trap. (LAPC 704.3)
- W13. Provide indirect waste for the following equipment: refrigerators, refrigeration coils, freezers, walk in coolers, ice boxes ice making machines, steam tables, egg boilers, coffee urns and brewers, hot and cold drink dispensers, and similar equipment. (LAPC 801.3)
- W14. Food-preparation sinks, steam kettles, potato peelers, dipper wells, and similar equipment shall be indirectly connected to the drainage system by means of an air-gap. (LAPC 801.3.3)
- W15. Provide clearance from Industrial Waste. The Industrial Waste Management Division of the Department of Public Works, Bureau of Sanitation may be contacted at 323-342-6118 and is located at 2714 Media Center Drive, Los Angeles. (LAPC 306.1)
- W16. No food waste disposer or dishwasher shall be connected to or discharge into a grease interceptor unless the grease interceptor is designed to receive the discharge of food waste. (LAPC 1014.1.3)
- W17. Provide product literature showing that the grease interceptor is listed to receive the discharge of food waste. (LAPC 1014.1.3)
- W18. Show location(s) of the grease interceptor(s) on the lay out. (LAPC 103.2.2)
- W19. A grease interceptor shall not be installed in a building where food is handled. Location of the grease interceptor shall meet the approval of the Department. (LAPC 1014.3.4)
- W20. Provide product literature for the grease interceptor. (LAPC 101.5.1; LAPC 103.2.1; LAPC 1014.1)
- W21. The grease interceptor shall be approved by the City of Los Angeles Testing Laboratory or other City of Los Angeles recognized agency. (LAPC 301.2)
- W22. Show vent and trap downstream of the grease interceptor. (Public Works requirement)
- W23. Show details for the island venting. (LAPC 909.1)
- W24. The island sink drain, upstream of the returned vent, shall serve no other fixtures. (LAPC 909.1)
- W25. Provide yoke vents and show the yoke vents on the riser diagram. (LAPC 907.1; LAPC 907.2)
- W26. All wet vented fixtures shall be within the same story. (LAPC 908.1)
- W27. Only private bathroom groups may be wet vented horizontally. (LAPC 908.2)
- W28. No more than one bathroom group located on the same floor may be connected to a horizontal wet vent system. (LAPC 908.2)
- W29. The water closet in a horizontal wet vent system shall connect to the conventional sewer and shall be installed downstream of any wet vented fixture. (LAPC 908.2.4)
- W30. Combination waste and vent system is only

- allowed where structural conditions preclude the installation of a conventional system. (LAPC 910.1)
- W31. Discharge from toilets or urinals is not allowed in a combination waste and vent system. (LAPC 910.7)
- W32. Combination waste and vent systems shall not be utilized where solids or grease waste is anticipated. (LAPC Appendix B Sect. B 101.2)
- W33. No vertical waste pipes are allowed in a combination waste and vent system. (LAPC 910.5)
- W34. Show a detail of the connection of the branches to the main horizontal line. (LAPC 103.2.1; LAPC 910.2; LAPC 910.5)
- W35. Each drain pipe and each trap, in a combination waste and vent system, shall be 2 pipe sizes larger than the sizes required by Chapter 7 of the Plumbing Code. (LAPC 910.4)
- W36. Show a typical detail of the tailpiece and trap. (LAPC 103.2.1; LAPC 910.2; LAPC 910.4)
- W37. Provide a separate vent for each waste branch line exceeding 15' in length. (LAPC 910.3)
- W38. Provide a vent downstream of the uppermost fixture. (LAPC 910.3)
- W39. Relief vents shall be provided every 100 feet along the mains. (LAPC Appendix B Sect. B 101.40)
- W40. The area of a vent installed in a combination waste and vent system shall be not less than one-half the inside cross-sectional area of the drain pipe served. (LAPC 910.3)
- W41. Show on plans type & use of each fixture served by the combination waste and vent system. (LAPC 101.5.1; LAPC 103.2.2)
- W42. Show the combination waste and vent piping on floor plans. (LAPC 101.5.1; LAPC 103.2.2)
- W43. Waste piping, required by the Los Angeles Plumbing Code, shall be arranged to permit the discharge from the clothes washer, bathtub, showers, and bathroom/restroom wash basin to be used for a future graywater irrigation system. The discharge from graywater producing fixtures shall be piped separately. (LAGBC 4.305.1; LAGBC 5.305.1)
- W44. The point of connection between the graywater piping and other waste piping shall be accessible (as defined by LAGBC 2.202) and provided with signage that is satisfactory to the Department. (LAGBC 4.305.1; LAGBC 5.305.1)
- W45. When City-recycled water is available for use within 200 feet of the property line, 100 percent of water for water closets, urinals, floor drains, and process cooling and heating in that building shall come from City-recycled water. Recycled water systems shall be designed and installed in accordance with the Los Angeles Plumbing Code. (LAGBC 4.305.2; LAGBC 5.305.2)
- W46. New buildings where groundwater is being extracted and discharged, a system for onsite reuse of the groundwater shall be developed and constructed. Alternatively, the groundwater may be discharged to the sewer. (LAGBC 4.305.4; LAGBC 5.305.4)
- W47. Cooling towers in all commercial buildings and residential buildings of 25 stories or less shall comply with one of the following:
- A. A minimum of 6 cycles of concentration (blowdown); or
 - B. A minimum of 50% of make-up water supply shall come from non-potable water sources, including treated backwash. (LAGBC 4.305.3.1; LAGBC 5.305.3)
- W48. Cooling towers in residential buildings over 25 stories shall comply with all of the following:
- A. A minimum of 6 cycles of concentration (blowdown); and
 - B. 100% of make-up water supply shall come from non-potable water sources, including treated backwash. (LAGBC 4.305.3.2)

OSHPD 3 REQUIREMENTS

- W49. Remove floor drains from operating and delivery rooms. (LAPC 310.10)
- W50. Remove floor drains from compounding rooms or ante rooms. (LAPC 310.10)
- W51. ABS and PVC for waste and vent systems are not

allowed. (LAPC 701.2(2)(B); LAPC 903.1.3)

W52. Each vent shall terminate not less than 25 feet from any air intake or vent shaft. (LAPC 906.2.1)

W53. Grease interceptor shall not be installed in the kitchen. (LAPC 1014.1(B); LAPC 1014.1(C); LAPC 1015.6; LAPC 1015.7)

GAS SYSTEM

PLAN DETAILS

G1. All newly constructed buildings shall be all-electric buildings. (LA City Ordinance 187714, LAGBC 4.106.8, LAGBC 5.106.14)

G2. There shall be no combustion equipment, plumbing for combustion equipment, gas piping, or fuel gas serving any use including, but not limited to, space heating (including fireplaces), water heating (including pools and spas), cooking appliances (including barbecues), and clothes drying, within the building or building property lines, and instead uses electricity as the sole source of energy for all lighting, appliances and/or equipment, including, but not limited to, space heating, water heating, cooking appliances, and drying appliances". (LA City Ordinance 187714, LAGBC 4.106.8, LAGBC 5.106.14)

G3. Provide a complete riser diagram for the gas system. (LAPC 101.5.3; LAPC 103.2.2)

G4. The riser diagram shall indicate all of the appliances/equipment being served, the pipe sizes, and the hourly volume (CFH) of gas on each leg of pipe. (LAPC 101.5.3; LAPC 103.2.2; LAPC 1208.1; LAPC 1215.1)

G5. Indicate on the plans the total length of the system from the gas meter or regulator to the most remote gas outlet. (LAPC 1215.1.1)

G6. Indicate on the plans the material for the gas piping. (LAPC 1202.2; LAPC 1208.6)

G7. Provide a separate gas shut-off valve for each tenant. (LAPC 1210.9.2)

G8. Indicate on the plans the hourly volume (CFH) of

gas required at each outlet. (LAPC 1208.4.1)

G9. Provide an approved type seismic gas shut-off valve. (LAPC 1217.2)

G10. Indicate on the plans the size, make, and model of the seismic gas shut-off valve. (LAPC 101.5.1; 103.2.2)

G11. The seismic gas shut-off valve shall be mounted rigidly to the exterior of the building or structure containing the fuel gas piping. (LAPC 1217.3.2)

G12. Show compliance with either section 1210.1.6.1 or 1210.1.6.2 for the gas pipe installed under the building. (LAPC 1210.1.6.1; or 1210.1.6.2)

G13. Provide a letter from the gas company stating that they will deliver the desired pressure and volume of gas. (LAPC 1216.6)

G14. Show on the plans the size, make, model, orifice size, spring color, pressure setting, and inlet pressure of the gas pressure regulator. (LAPC 103.3) (For pressures 2psi or more: requirement from the gas company; for pressure higher than 5 psi also required by LAPC 1215.6)

G15. Provide the following note on the plans: "Regulator Manifold must be installed in a safe and accessible location. Manifold must be installed no higher than 48" off the flat working surface" (SoCal Gas requirement)

G16. Provide manufacturer's cut-sheet for the gas pressure regulator showing the inlet and outlet pressures at the selected setting. (LAPC 101.5.1; LAPC 103.2.2)

G17. An approved gas shut-off valve shall be installed immediately preceding each regulator. (LAPC 1210.9)

G18. Pressure regulator shall be vented to the outside of the building and shall terminate not less than 3 feet from a source of ignition. (LAPC 1208.8.4(1) LAPC 1208.8.4(3))

G19. The pressure regulator(s) shall be provided with factory installed overpressure protection devices to limit the pressure downstream of the line pressure regulator to 2 psi in the event of failure of the line

pressure regulator. (LAPC 1208.11)

G20. Provide a copy of an approved "Request for Modification of Building Ordinances" form allowing the use of high pressure gas. (LAPC 1201.1; LAPC 1208.5)

STORM DRAINAGE SYSTEM

PLAN DETAILS

- R1. Provide approved LID plans to show the allowable discharge location(s) of the storm drainage piping (LAPC 1101.2; LAPC 101.5.3; LAPC 103.2.2)
- R2. Provide complete riser diagrams for the rain water system. (LAPC 101.5.3; LAPC 103.2.2)
- R3. Indicate on the plans the piping material of the rain water system. (LAPC 1101.4)
- R4. Indicate on the riser diagram the area (ft²) covered by each drain. (LAPC 101.5.3; 101.5.3; 103.2.2; 1103.0 1101.12.1; LAPC Table 1103.1; and LAPC Table 1103.1; Appendix D Sect. D 103.2)
- R5. Indicate on the plan the slope of horizontal piping. (LAPC Table 1103.2)
- R6. Provide overflow drains. Otherwise, indicate the reasons for not having them. (LAPC 1101.12.2)
- R7. If scuppers are used as overflow drains, they shall be sized having area equivalent to the one of the drains as determined by section 1101.12.1. Furthermore, scupper openings shall not be less of 4" high and have a width at least equal to the circumference of the roof drain required for the area served (Diameter X π). (LAPC 1101.12.2.1)
- R8. Roof drains and over flow drains shall be piped independently to the outside of the building. (LAPC 1101.12.2.2.1)
- R9. Show the pipe all the way to the property line. (LAPC 101.5.1; LAPC 103.2.2)
- R10. When discharging under the curb, the drain line shall not be smaller than three inch diameter or greater than four inch diameter. (Department of Public Works requirement)

R11. When the pipe exceeds four inches in diameter, for the portion under the curb, either use rectangular fitting having height between three and four inches and a cross section equal or greater the cross section of the pipe, or manifold multiple pipes having aggregate cross sectional area equal or greater the cross sectional area of the gravity pipe. (Department of Public Works requirement)

R12. Provide design and sizing calculations for the siphonic storm drainage system (LAPC 1106.0)

SUBSURFACE DRAINAGE SYSTEMS

PLAN DETAILS

- S1. New buildings where groundwater is being extracted and discharged, a system for onsite reuse of the groundwater shall be developed and constructed. Alternatively, the groundwater may be discharged to the sewer. (LAGBC 4.305.4; 5.305.4)
- S2. Show the subsurface drainage piping on the floor plans. (LAPC 101.5.1)
- S3. State the piping material. (LAPC 1101.4.6; Table 1101.4.6)
- S4. Provide a statement from a California registered civil engineer showing the required flow. (LAPC 101.5.1)
- S5. Either terminate the subsurface drains to the city storm drain, or provide a soil report showing that there is no continuously flowing springs or ground water. (LAPC 1101.6.1)
- S6. Install backwater valves in the drains when discharging into a storm drain. (LAPC 1101.6.4)
- S7. Show the pipe all the way to the property line. (LAPC 101.5.1; LAPC 103.2.2)
- S8. When discharging under the curb, the drain line shall not be smaller than three-inch diameter nor greater than four-inch diameter. (Department of

Public Works requirement)

- S9. When the pipe exceeds four inch in diameter, for the portion under the curb, either use rectangular fitting having height between three and four inches and a cross section equal or greater the cross section of the pipe, or manifold multiple pipes having aggregate cross sectional area equal or greater the cross sectional area of the gravity pipe. (Department of Public Works requirement)

