



PLUMBING DRAWINGS

- Sealed by a mechanical engineer registered in the State of Arizona (if applicable).
- 2018 Uniform Plumbing Code with City of Phoenix Amendments (UPC)**
- Complete on-site domestic water & building sewer plans - see TRT 00046:
https://www.phoenix.gov/pdds/Docs/Trt_Pdf_00046.pdf (Onsite Civil Plan Review, Water & Sewer Template) - UPC 601 & 713
- Complete plumbing floor plan for building water, sewer, roof drains and gas systems - IBC 107.2
- Minimum plumbing fixture analysis - IBC 2902.1, IBC Table 2902.1, UPC 422
- Water heater size, location, venting, and hot water distribution system - UPC 501
- Service water heating energy conservation compliance (efficiency, piping insulation, temperature and pump controls, pools and spas) - IECC C404
- Plumbing fixture specifications - UPC 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 415
- Backflow Prevention Devices (as required) – type(s) and location(s) - UPC 603
- Plumbing piping materials - UPC 604
- Pressure relief devices and expansion tanks - UPC 608
- Water supply service and meter sizing calculations - UPC 610, Water Meter Sizing Guideline
- Water supply piping sizing calculation - UPC 610, Table 610.3 & 610.4, UPC Appendix A
- Drain, waste, and vent requirements and sizing isometrics - UPC 701, 801, 901, Table 703.2
- Building sewer systems - UPC 713
- Indirect waste systems - UPC 801, 803, 804
- Plumbing vent installation and sizing, wet venting, island venting, combination waste and vent systems - UPC 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, UPC Appendix B
- Traps and interceptors, trap primers - UPC 1001
- Rainwater removal systems - UPC 1101, 1106 and UPC Tables 1101.7, 1101.11, 1106.3
- Medical gas systems - UPC Chapter 13

Privately Owned Aquifer Protection Permit 4.01 Sewage Collection System:

Complete this application if proposed sewage collection system falls under the requirements of Arizona's Protection Permit (APP) General Permit 4.01 (AAC R18-9-E301) but will be privately owned and operated. APP General Permit rules require 4.01 General Permit compliance for sewage collection systems that serve multiple private users where the individual users assume ownership and control to the downstream point where the sewer delivers wastewater to a sewage collection system owned and controlled by a public sewer utility. General Permit 4.01 is applicable if the private sewage collection system is constructed outside the footprint of the served building(s) and collects wastewater into a system accommodating a design flow of 3,000 gallons per day (gpd). The following documents, reports, and construction drawings shall be submitted to the Mechanical/Plumbing plan reviewer responsible for the project:

** The initial submittal is required to accompany the building construction drawings.

- Application for Construction Authorization completed by design engineer.
- Sewer Design Report detailing flows and all design features.
- Construction drawings detailing site and sewer system.
- Name of Certified Operator and copy of draft CC&R's.
- Low Slope Sewer Authorization, if required.
- Upon approval, P & D issues Construction Authorization with building permit.

Prior to Authorization and Approval of Sewer Discharge:

After sewer installation and completion, inspection, and before discharge authorization and issuance of Certificate of Occupancy, the client or engineer must submit the following documentation:

- Request for Drainage Authorization, TRT Document 00207 - https://www.phoenix.gov/pddsites/Documents/TRT/dsd_trt_pdf_00207.pdf
- Private Sewer Engineers Certificate of Completion, TRT Document 00208S - https://www.phoenix.gov/pddsites/Documents/TRT/dsd_trt_pdf_00208S.pdf
- Discharge Authorization, TRT Document 00209 - https://www.phoenix.gov/pddsites/Documents/TRT/dsd_trt_pdf_00209.pdf
- As-Built Drawings – sealed, signed, and dated by the Professional Registrant
- Test results
- Recorded CC&R's
- O&M manuals
- Certified Operator's information which includes phone number and email point of contact