

# Site utilities rough-in inspection checklist

Site utilities rough-in is the last time the work is fully visible. Once the cover inspection passes and the walls, ceilings and slabs close, every defect left behind becomes a demolition bill. This checklist walks the rough-in in the order the work goes in, with the photo each item needs before it gets buried. Work is commonly verified against IPC / UPC plumbing codes, the project specifications. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The GC's superintendent with the utility foreman, walking the open trench before any pipe gets covered. When: With the trench open and the pipe laid, before bedding is covered and backfill goes in, since nothing below can be checked once the trench is filled.

## Pipe and bedding

- ☐ **Pipe material and class match the design**  
Pipe type, size and pressure class or wall confirmed against the utility plan for storm, sanitary and water, markings read on the pipe itself. 2 photos required
- ☐ **Bedding material and depth correct**  
Specified bedding placed and shaped under and around the pipe, no rock bearing on the barrel, haunches supported. 2 photos required

## Grade and joints

- ☐ **Invert elevations and slope on gravity lines verified**  
Inverts shot at structures and along the run against the profile, continuous fall with no belly or backfall on storm and sanitary. 2 photos required
- ☐ **Joints made up correctly**  
Gaskets seated and pipe home to the mark, joints clean and gapped per the maker's instruction, no cocked or pushed-past joints. 2 photos required

## Restraint and separation

- ☐ **Thrust blocking or restraint at fittings on pressure mains**  
Bends, tees and valves on the water main blocked against undisturbed soil or mechanically restrained per the detail before backfill. 2 photos required
- ☐ **Separation between water and sewer maintained**  
Horizontal and vertical separation between the water main and sewer lines checked against the requirement at parallels and crossings. 1 photo required