

QC Plumbing-Facility Sanitary Sewerage Checklist

Section 22.13.00

Facility Sanitary Sewerage addressing installation, integration, and safe operation of related assemblies and systems for reliable facility performance. Scope emphasizes pipe, sewer, specified, minimum, with field verification confirming compliance with performance, safety, and quality standards. Quality assurance, recordkeeping, and corrective actions

Pipe invert elevations at each structure match design elevations within ±0.02 ft, maintaining continuous gravity flow toward the discharge point.

✓

QC

OPN

NA

Observations

Installed sewer piping slope falls within specified range (minimum design slope but not exceeding maximum allowed) when checked with laser level over full run.

✓

QC

OPN

NA

Observations

Gasketed pipe joints are fully seated with no visible offsets or rolled gaskets; low-pressure air test achieves specified pressure without leakage for required duration.

FTQ

✓

OPN

NA

Observations

Trench bedding consists of specified granular material compacted to required thickness (minimum 6 inches) before pipe placement.

✓

QC

OPN

NA

Observations

Service lateral wyes are installed at plan stationing and orientation (45° or 90° as detailed) with branch invert matching mainline springline.

✓

QC

OPN

NA

Observations

Manhole base channels and benches are shaped to provide smooth flow with no abrupt drops; invert elevations within ±0.03 ft of design.

FTQ

QC

✗

NA

Observations

Completed manholes pass vacuum or air tightness test (maximum 1 in. Hg drop in 2 minutes or as specified).

✓

QC

OPN

NA

Observations

Cover depth over buried sewer pipe meets or exceeds specified minimum (e.g., 30 inches under traffic areas) at representative survey shots.

✓

QC

OPN

NA

Observations

Cleanouts installed at required intervals and change-of-direction points terminate at grade with approved cast-iron covers labeled "S".

✓

QC

OPN

NA

Observations

Initial backfill and subsequent lifts compacted to minimum 95 % Standard Proctor density; field density tests meet specification.

FTQ

✓

OPN

NA

Observations

Tracer tape or 12-AWG continuous locator wire is placed 12 inches above non-metallic sewer pipe along entire run, accessible in structures.

✓

QC

OPN

NA

Observations

Post-backfill mandrel test shows pipe deflection not exceeding 5 % of inside diameter for flexible pipe materials.

FTQ

QC

✗

NA

Observations

Closed-circuit television (CCTV) inspection after all testing confirms no bellies, joint offsets, cracks, or debris; inspection video archived.

✓

QC

OPN

NA

Observations

Horizontal separation between sanitary sewer and potable water mains maintained at minimum 10 ft and vertical separation at crossings not less than 18 inches.

✓

QC

OPN

NA

Observations

Drop manholes provided where incoming sewer elevation difference exceeds 24 inches; drop pipe securely anchored and vented per detail.

✓

QC

OPN

NA

Observations