JOHNSON COUNTY WASTEWATER
CITY STREET & STORMWATER IMPROVEMENT
PROJECT PLAN REVIEWS & COORDINATION

Purpose: To protect the environment and the citizens of Johnson County by preserving and protecting the sanitary sewer infrastructure operated by Johnson County Wastewater.

Designer’s Checklist:

☐ Are sanitary sewers shown on plan sheets?
  ✓ Go to “Online Mapping” at aigs.jocogov.org for general location mapping and record drawings.
  ✓ Label all JCW manholes with the manhole number shown on the AIMS Internet mapping.

☐ Are sanitary sewers shown on profile sheets?
  ✓ Field survey of sanitary sewers is strongly recommended.
  ✓ As-built drawings are available through the AIMS mapping website. (Contact Charles for assistance.)
  ✓ Service connection locations (approximate) on main sewers may be found on as-built drawings.
  ✓ Service connection locations can also be found by televising the sewer line. (Contact Charles for more info)
  ✓ Label any necessary reinforced concrete pipe encasements or DIP pipe replacements in profiles.

☐ Are manhole adjustments proposed and called out on plan sheets?
  ✓ Include a standard JCW manhole detail sheet in plan set.
    - Click on “Forms” in left menu at www.jcw.org
  ✓ Include a call-out label for how much a manhole is being adjusted (+/-)
  ✓ Manhole full-depth reconstruction may be required under the following conditions:
    o If manhole depth is increased beyond 16 feet, manhole wall thickness below 16 ft must be 5".
    o If manhole depth is increased beyond 20 feet, manhole diameter below 20 feet must be 5 ft.
    o If manhole depth is increased beyond 25 feet, manhole diameter below 25 feet must be 6 ft.

☐ Are there conflicts with sanitary sewer or service lines?
  ✓ Reinforced concrete encasement or replacement of line with a lined ductile iron pipe (DIP) per JCW standard is required under the following conditions:
    - Storm Sewer crosses within 30" vertically over sanitary sewer.
    - Storm Sewer crossing over sanitary line is 36" in diameter or greater (exceptions to this requirement are considered on a case-by-case basis)
    - Storm inlet is placed over the top of a sanitary line (avoid this if possible).
  ✓ Reinforced concrete encasements or DIP replacement pipes should extend at least five feet (5') on either side of conflicting storm sewer, storm inlet, or other structure.
  ✓ If DIP replacement pipe or reinforced concrete encasement is within three feet (3') of a manhole, DIP replacement and/or encasement should be extended to the manhole to minimize pipe settlement/offsetting near the manhole.

☐ Are sanitary sewer service lines shown or noted in some fashion on the plans?

☐ Is depth of additional fill a loading concern for existing sanitary sewer lines?
  ✓ if fill depth causes sewer line to be between 15 and 20 feet deep, SDR 26 PVC is required
  ✓ If fill depth causes sewer line to be greater than 20 feet deep, DIP or RCP pipe is required
  ✓ Structural lining (CIPP) may be an option to consider. (Approved by JCW on a case-by-case basis)
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Designer's Checklist (continued):

☐ Are future sanitary sewer crossings for developing areas planned in the construction area (major thoroughfare/street improvement projects)?
  ✔ JCW can provide information regarding future sanitary sewer crossings planned at roadways.

☐ Is sanitary sewer relocation required?
  ✔ Relocations require full sanitary sewer design plans per JCW minimum plan requirements and must be approved by JCW. Please contact Charles McAllister to discuss JCW submittal requirements.

Contact Information:

Program Coordinator:  Project Design Review & Coordination:  Field Coordination & Inspections:
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