



GRANGER-HUNTER
IMPROVEMENT DISTRICT

Plan submittal and review checklist

Version 1.1

March 21, 2017

Overview

This checklist is designed to assist in the development and submittal of Project Plans. Listed below are some of the design requirements set forth by Granger Hunter Improvement District (District). The checklist items are not intended to be the minimum required and do not constitute a comprehensive list. If you have a question not covered by this checklist, call the District's Engineering Department at 801-968-3551.

Plan Submittal Checklist

- Submit plans on one sheet (if possible) with a scale no larger than 1: 50 (1"= 50').
- Submit profile sheets with a vertical scale no larger than 1: 10 (1" = 10').
- All electronic files shall be submitted in the following coordinate systems:
 - Horizontal Datum: North American Datum of 1983 State Plane Coordinate System (in feet) Utah Central shall be used for all projects.
 - Vertical Datum: Geoid 99 (Conus).
- Plans must be signed and stamped by a licensed professional engineer. (As Per Rule R156-22. Professional Engineers and Professional Land Surveyors Licensing Act Rule)
- Place North arrow and scale on all sheets.
- Illustrate all property lines
- Note existing and proposed physical addresses.
- Provide a vicinity map showing the project location on the cover sheet.
- Note the project name on all sheets.
- Provide a legend.
- Provide a Blue Stakes stamp on the cover sheet.
- Show proposed water lines in blue, sewer lines in green, and fire lines in red.
- Shut-off valves are required at each building.

Plan Review Checklist

Existing Infrastructure

- Indicate on plans all existing water and sewer infrastructure and note intent of use.
Example:
 - Water meter is to be abandoned at the main per District requirements.
 - Water meter is to be reconnected in accordance with District requirements.

- Sewer main is to be protected and remain in place for continued use.
- Indicate on plans all existing and proposed building footprints.
- Indicate on plans all existing and proposed utility easements.
- All commercial plans, including tenant improvements, must have indoor plumbing plans.
- For developments with multiple buildings, place curb stop for each unit behind the curb.

Water

Water Valves

- Maximum spacing for isolation valves shall not exceed 500 feet for commercial developments.
- Maximum spacing for isolation valves shall not exceed 800 feet for residential developments.
- Design isolation valves at all street and/or water main intersections.

Fire Hydrants

- Maximum spacing for all fire hydrants shall not exceed 500 feet.
- Design all fire hydrant isolation valves connected at the main.

Water Mains

- Indicate on plans the diameter and pipe material for all proposed water mains.
- Indicate on plans the size and type of all water main fittings.
- Indicate ownership of all water lines (i.e. public or private).
- Note mega lug restraints or equivalent are required at all water main tees and bends per District specifications.
- Note concrete thrust blocking is required at all water main tees and bends per District specifications.
- All water mains and laterals shall maintain a minimum separation of ten (10) horizontal feet and two (2) vertical feet from all sewer lines.
- All water lines that cross under a sewer line must be installed in a casing.
- All lateral water lines shall not be tapped onto fire lines.

Water Meters

- Indicate on plans the appropriate size and location of all existing and proposed water meters.
- Design water meters at adjoining property lines centered in the park strip or within one foot from TBC in accordance with District specifications.
- All industrial and commercial sewer users required to install a grease/oil/sand interceptor shall also install a landscape meter unless deemed unnecessary by the District's Engineer.

Wastewater

Sewer Mains

- Indicate on plans the diameter and pipe material for all proposed sewer mains.
- Indicate on plans the diameter, invert elevation, and rim elevation of all existing and proposed sewer manholes.
- Indicate on plans the diameter and location of all proposed sewer laterals.
- Indicate ownership of all sewer lines (i.e. public or private).
- Maximum spacing for all sewer manholes shall not exceed 400 feet.
- End all sewer mains with a manhole or cleanout.
- Indicate on plans the proposed grade of all sewer mains.

Sewer Laterals

- Design an exterior lateral cleanout within five feet from all building connections.
- Maximum spacing for all 4 inch cleanouts shall not exceed 60 feet (4 inch Sewer Laterals).
- Maximum spacing for all 6 inch cleanouts shall not exceed 100 feet (6 inch Sewer Laterals).
- Indicate on plans the proposed grade of all sewer laterals.

Sewer Commercial and Industrial Users (See Granger-Hunter Improvement District Wastewater Control Rules and Regulations Section 8.1.3 for definitions)

- Submit a Central Valley Water Reclamation Facility Industrial Waste Survey Questionnaire for review.
- All establishments that permit the discharge of fat, oil, grease, or sand (FOGS) into the sewer system shall install a 1,000 gallon (minimum) interceptor and a sampling manhole per District specifications.

General Notes

(Required on All Projects)

- Project shall comply with all Granger-Hunter Improvement District specifications and requirements.
- Project shall comply with all Utah Division of Drinking Water rules and regulations including, but not limited to, those pertaining to Backflow Protection and Cross Connection Prevention.

(Required on All Projects which include work in the Public Right of Way)

- All construction in the Culinary Waterline and Sanitary Sewer Line pipe zone shall comply with all Granger-Hunter Improvement District specifications and requirements.

Wastewater

(Required for projects relating to commercial and industrial sewer users)

Add these notes to the plan if the project is required to install a grease interceptor or has an existing grease interceptor and is required to connect to it.

- It is the contractor's responsibility to verify the location of all grease and sanitary sewer lines before any connection is made.
- A dye test of the sanitary and grease sewer lines is required and shall be conducted prior to District Final acceptance.

Add this note to the plan if the project has no grease interceptor, or if the project has a grease interceptor but is not required to connect to it.

- At the time of the GHID Final Review of these plans, this project was not categorized as an industrial user. However all Fats, Oils, Grease, and Sands Dischargers shall be connected to an outdoor 1,000 gallon (minimum) Grease Interceptor and Sampling Manhole. Only one Sampling Manhole is allowed per parcel owner, or culinary water meter and bill. Therefore, should this project be modified or its use change GHID may require pretreatment infrastructure be installed at the sole cost of the parcel owner.

Add these notes to the plan if the project has a grease interceptor but is not required to connect to it.

- It is the contractor's responsibility to verify the location of all grease and sanitary sewer lines before any connection is made.
- The contractor shall not connect to any building grease lines.
- A dye test of the sanitary and grease sewer lines is required and shall be conducted prior to District Final acceptance.

