GRANGER-HUNTER
IMPROVEMENT DISTRICT

Improving quality of life today – creating a better tomorrow

Plan Submittal and Review Checklist

Version 1.7

Contents

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 or e-mail us at plans@ghid.gov.

Plan Submittal Checklist

Action	Item
☐Done ☐N/A	Submit plans on one sheet (if possible) with a horizontal scale no larger than 1: 50 (1"= 50') and a vertical scale no larger than 1 : 10 (1" = 10')
☐Done ☐N/A	All files shall be submitted electronically in .pdf format to plans@ghid.gov
☐Done ☐N/A	Final Civil site 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). Final interior plumbing plans must be stamped by a Licensed Architect or Mechanical Engineer.
☐Done ☐N/A	Place North arrow and scale on all sheets.
☐Done ☐N/A	Illustrate all property lines
☐Done ☐N/A	Note existing and proposed physical addresses.
☐Done ☐N/A	Label all street names.
☐Done ☐N/A	Locate and Label Public Right of Way Centerline.
☐Done ☐N/A	Provide a vicinity map showing the project location on the cover sheet.
☐Done ☐N/A	Note the project name on all sheets.
☐Done ☐N/A	Provide a legend.
☐Done ☐N/A	Provide a Blue Stakes stamp on the cover sheet.
☐Done ☐N/A	Show proposed water lines in blue, sewer lines in green, grease lines in brown and fire lines in red.
☐Done ☐N/A	Provide Salt Lake County Benchmark
☐Done ☐N/A	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.
☐Done ☐N/A	Indicate on plans all existing and proposed building footprints.
☐Done ☐N/A	Indicate on plans all existing and proposed utility easements.
☐Done ☐N/A	All commercial plans, including tenant improvements, must have indoor plumbing plans. Include a floor plan.
☐Done ☐N/A	Plat approval block signature line should read ENGINEERING DEPARTMENT.
☐Done ☐N/A	All Commercial and Industrial (includes Tenant Improvements) projects provide an interior plumbing plan with all backflow devices and or assemblies clearly labeled and shown.
☐Done ☐N/A	Provide Plans for Existing and Proposed Fire systems.
☐Done ☐N/A	For Tenant Improvements: Provide pictures of the fire riser and most recent fire system inspection report if the building has one.
☐Done ☐N/A	Complete the SL County Drinking Water Source Protection Verification of Compliance form when projects are within the Districts Source Protection *Typically, 1 mile radius from water well site. Map portal on our website.*

Plan Review Checklist - Water

Water Valves	
☐Done ☐N/A	Maximum spacing for isolation valves shall not exceed 500 feet for commercial developments.
☐Done ☐N/A	Maximum spacing for isolation valves shall not exceed 800 feet or one block for residential developments.
☐Done ☐N/A	Design isolation valves at all street and/or water main intersections.
☐Done ☐N/A	For Master Metered developments, each building is required to have a curb stop behind the curb, sidewalk or adjacent to building.
Fire Hydrants	
☐Done ☐N/A	Maximum spacing for all fire hydrants shall not exceed 500 feet.
☐Done ☐N/A	Design all fire hydrant isolation valves to be connected at the main.
Water Mains	
☐Done ☐N/A	Indicate on plans the diameter and pipe material for all proposed water mains. All water mains connected to hydrants shall be 8-inch minimum diameter.
☐Done ☐N/A	Indicate on plans the size and type of all water main fittings.
☐Done ☐N/A	Indicate ownership of all water lines (i.e. public or private).
☐Done ☐N/A	Note mega lug restraints or equivalent are required at all water main tees and bends per District specifications.
☐Done ☐N/A	Note concrete thrust blocking is required at all water main tees and bends per District specifications.
☐Done ☐N/A	All water mains and laterals shall maintain a minimum separation of ten (10) horizontal feet and 18 inches (2) vertical feet from all sewer lines. All water and sewer line crossings shall confirm to the Typical Conflict Resolution detail in GHID Material and Construction Specifications.
☐Done ☐N/A	Water laterals shall not be tapped onto fire lines.
☐Done ☐N/A	All dead-end water mains shall be provided with either a blow-off or fire hydrant.
Water Meters	
☐Done ☐N/A	Indicate on plans the appropriate size and location of all existing and proposed water meters.
☐Done ☐N/A	Design water meters at adjoining property lines centered in the park strip or within one foot from TBC in accordance with District specifications.
☐Done ☐N/A	All industrial and commercial sewer users required to install a grease/oil/sand interceptor shall also install a landscape meter unless deemed unnecessary by District Engineering.
☐Done ☐N/A	Projects are limited to 2 main meters and 2 water only meters per parcel. Any landscaping back-out meters need to be sized smaller than the Main meter feeding it.

Plan Review Checklist - Wastewater

Sewer Mains	
☐Done ☐N/A	Indicate on plans the diameter and pipe material for all proposed sewer mains.
☐Done ☐N/A	Indicate on plans the diameter, invert elevation, and rim elevation of all existing and proposed sewer manholes.
☐Done ☐N/A	Indicate on plans the diameter, location, and grade of all proposed sewer laterals.
☐Done ☐N/A	Indicate ownership of all sewer lines (i.e. public or private).
☐Done ☐N/A	Maximum spacing for all sewer manholes shall not exceed 400 feet.
☐Done ☐N/A	End all sewer mains with a manhole or cleanout.
Sewer Laterals	
☐Done ☐N/A	Design an exterior lateral cleanout within five feet from all building connections.
☐Done ☐N/A	Maximum spacing for all 4 inch cleanouts shall not exceed 60 feet (4 inch Sewer Laterals).
☐Done ☐N/A	Maximum spacing for all 6 inch cleanouts shall not exceed 100 feet (6 inch Sewer Laterals).
☐Done ☐N/A	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)	
☐Done ☐N/A	Submit a Central Valley Water Reclamation Facility Industrial Discharge Questionnaire for review.
☐Done ☐N/A	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 and provide sizing calculations from Engineer.
☐Done ☐N/A	Manholes, Sampling manholes and grease interceptors shall not be placed in parking stalls and shall be permanently accessible .

General Notes- Water

Add these Notes to All Projects.	
☐Done	Project shall comply with all Granger-Hunter Improvement District specifications and requirements.
☐Done	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.
☐Done	Owner is responsible to submit backflow reports to GHID Water Quality Department within 10 days of initial use and annually thereafter.
Add this Note which include work in the Public Right of Way.	
☐Done ☐N/A	All construction in the Culinary Waterline and Sanitary Sewer Line pipe zone shall comply with all Granger-Hunter Improvement District specifications and requirements.
Add this Note on All Projects which require a Grease Interceptor.	
☐Done ☐N/A	Owner is responsible to Provide, Install and Maintain Landscape Backout Meter per Granger-Hunter Improvement Districts Standards.
Add this Note on All Projects if the property has a fire sprinkler system.	
☐Done ☐N/A	**All fire lines within Granger-Hunter boundaries must comply with the International Plumbing Code, Section 608 Protection of potable water supply.** Granger-Hunter Improvement District requires testable backflow assemblies on all connections considered a cross-connection. The fire system may need to be modified by Engineer's recommendations.
Add this Note when project falls in the Source Protection Management Zone	
☐Done ☐N/A	This property is in a Drinking Water Source Protection Management Zone. Granger-Hunter Improvement (District) has adopted the Utah Administrative Code 309-600-6. The District requires during construction and future use, to follow best management practices (BMP's) when dealing with any substance that if not cared for properly has potential to contaminate the ground water source.
Add this Note to the civil plans when project has any exterior water and/or sewer.	
☐Done ☐N/A	Prior to District Final Acceptance, submit a digital copy of field verified As-Built Plans in PDF and DWG format spatially referenced to NAD 1983 State Plane Utah Central FIPS 4302 (feet) and tied to the nearest existing Salt Lake County benchmark monument. Digital As-Built Plans shall have separate layers for culinary waterlines, culinary water services, fire lines, fire hydrants, valves, sanitary sewer lines, sanitary sewer manholes, sanitary sewer laterals, sanitary sewer clean-outs, and pretreatment infrastructure Submit As-builts to Granger-Hunter Improvement District when available.
Add this Note to the demolition plans for water and/or sewer abandonments.	
☐Done ☐N/A	All water, fire, and sewer services stubbed to a property must be used. Water, fire, and sewer lines must be abandoned at District's main if not reused. All abandoned lines to be inspected with Granger-Hunter Improvement District prior to being buried.

General Notes- 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.	
☐Done ☐N/A	It is the contractor's responsibility to verify the location of all grease and sanitary sewer lines before any connection is made.
☐Done ☐N/A	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.	
☐Done ☐N/A	At the time of the GHID Final Review of these plans, this project was not categorized as an Industrial User. If in the future this project is modified, or it's use changed GHID may require infrastructure to be installed at the sole cost of the owner. Dischargers of Fats, Oils, Greases, Sands, etc. shall be connected to an outdoor, 1000 gallon (minimum), Grease Interceptor and Sampling Manhole. Only one Sampling Manhole is allowed per parcel owner, or culinary water meter and bill.
Add these notes to the plan if the project has a grease interceptor but is not required to connect to it.	
☐Done ☐N/A	It is the contractor's responsibility to verify the location of all grease and sanitary sewer lines before any connection is made.
☐Done ☐N/A	The contractor shall not connect to any building grease lines.
☐Done ☐N/A	A dye test of the sanitary and grease sewer lines is required and shall be conducted prior to District Final acceptance.