

# CHAPTER 1

## GENERAL REQUIREMENTS AND POLICIES

### SECTION 101

#### GENERAL REQUIREMENTS

##### 101.1 Title

- A. These regulations shall be known as *Development Procedures, Design Standards and Construction Specifications for Wastewater Facilities in the Snyderville Basin Water Reclamation District (SBWRD Standards)*.

##### 101.2 Scope

- A. The provisions of these regulations shall apply to the development, design, and construction of any extension, replacement, relocation, modification, repair, abandonment, connection to and use of the public and private wastewater facilities within the Snyderville Basin Water Reclamation District (SBWRD).

##### 101.3 Intent

- A. The Board of Trustees of SBWRD has established certain requirements for development approval and construction of wastewater facilities in the SBWRD through adoption of these SBWRD Standards and other resolutions and policies.
- B. These regulations establish procedures and provide minimum standards and specifications to control and regulate the development, design, construction and use of wastewater facilities in the SBWRD. Certain environmental or site-specific conditions may require the design and construction of the wastewater facilities to exceed the minimum standards and specifications contained in these SBWRD Standards. It shall be the responsibility of the Project Engineer and Contractor to identify these conditions and modify the design and installation accordingly, as approved by SBWRD.

##### 101.4 Deviations

- A. SBWRD does not intend these standards and specifications to replace professional judgement and competent workmanship on the part of the Project Engineer or Contractor.
- B. Proposed designs, materials or construction methods deviating from these regulations shall be submitted to SBWRD for review. The submittal shall include additional data, computations, exhibits, etc., as required by SBWRD.
- C. Written approval by SBWRD authorizing a deviation from these regulations shall be received prior to incorporating the design, material or construction method deviation into a project.

##### 101.5 Abbreviations

- A. AASHTO: American Association of State Highway and Transportation Officials.
- B. ANSI: American National Standards Institute.
- C. ASTM: American Society for Testing and Materials.
- D. AWWA: American Water Works Association.
- E. IPC: International Plumbing Code.
- F. SBWRD: Snyderville Basin Water Reclamation District.

##### 101.6 Definitions

- A. Approved Construction Drawings: Final design drawings approved, stamped, and signed by the SBWRD District Engineer. This includes modifications to final design drawings approved by SBWRD after Final Design Approval is given.
- B. Authorization To Use: An approval granted by SBWRD for occupancy of a residence, building or other facility after acceptance of the Public Wastewater System; connection, inspection, and approval of the Private Lateral Wastewater Line; and receipt of all required fees and forms. The Authorization To Use is required by the Summit County and Park City Building Departments prior to issuance of Certificate of Occupancy/Compliance.
- C. Board of Trustees: The governing body of SBWRD.
- D. Building Permit: A permit issued by the Summit County or Park City Building Departments to individual lot or unit owners which authorizes construction or modification of a residence, building or other facility to begin.
- E. Certificate of Occupancy/Compliance: A certificate issued by the Summit County or Park City Building Departments to individual lot or unit owners certifying the residence, building or other facility (based on on-site inspections by the Building Inspector) has been constructed or modified in full compliance with all representations made and conditions imposed on its approval.
- F. Common Private Lateral Wastewater Line: A private lateral which is designed and constructed to serve more than one individual unit.
- G. Contractor: The company or firm and its employees hired by the Developer to construct the extension or modification of the Public Wastewater System or by the homeowner or building owner to construct the Private Lateral Wastewater Line.
- H. Developer: The owner, builder, or person sponsoring the construction of the project requiring extension or modification of the Public Wastewater System. The Applicant as established by the LEA.
- I. Engineering Services Fees: Fees paid to SBWRD

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- by the Developer to compensate the SBWRD for its time, effort and expense for design reviews, general project coordination and construction inspection of extension or modification of the Public Wastewater System required for the Developer's project.
- J. Final Design Approval: Formal approval given by the SBWRD District Engineer of the completed final design drawings after all design review issues have been addressed and Engineering Service Fees paid.
- K. Final Project Approval: Formal approval given by the Board of Trustees of the completed construction and related requirements of the Public Wastewater System improvements of the development.
- L. Impact Fees: Fees paid to SBWRD by a homeowner, building owner or facility owner to allow connection to and reserve capacity in the Public Wastewater System in accordance with the SBWRD Impact Fees Policy.
- M. Improvement Completion Agreement: An agreement between the Developer of the land proposed to be developed and SBWRD guaranteeing that all wastewater system improvements will be fully and completely constructed as represented by means of a form of security including a letter of credit, escrow fund, security bond or cash deposit in an amount and form satisfactory to SBWRD.
- N. Industrial Waste And Pretreatment Questionnaire: A questionnaire submitted by a commercial or industrial building or facility owner which provides information regarding the operation or activities that will be conducted in that building or facility. The information will be used by SBWRD to determine what pretreatment requirements will be required prior to discharging wastewater from the building or facility to the Public Wastewater System.
- O. LEA Application Fee: Fees paid to SBWRD by the Developer at the time LEA is submitted for processing the LEA.
- P. Line Extension Agreement For Public Wastewater System (LEA): A contract between the Developer of a proposed project and SBWRD for the design and construction of extensions or modifications to the Public Wastewater System required to provide wastewater service to the project.
- Q. Low Pressure Sewer System (LPSS): A wastewater collection and conveyance system consisting of Private Lateral Low Pressure Wastewater Lines and Public Low Pressure Wastewater Lines.
- R. Nonresidential Wastewater: All wastewater that is not domestically generated wastewater, or normal strength wastewater, as defined in the SBWRD Pretreatment Program or the SBWRD "A Resolution Fixing and Prescribing the Procedure for Determining Equitable Charges and Fees and Adopting Procedures for the Provision of Wastewater Service....".
- S. Off-road Public Wastewater Line: Any section of the Public Wastewater System (manhole to manhole) which is not located in a paved and maintained public or private street or road, and which has manholes further than 10 feet from the back of curb or edge of asphalt. Also included is any Public Wastewater Line that is located such that it is not accessible by SBWRD maintenance equipment.
- T. Off-road Public Wastewater Line Agreement: A contract between a Developer and SBWRD which establishes the responsibilities of each party regarding Off-Road Public Wastewater Lines.
- U. Private Lateral Low Pressure Wastewater Line (Building Sewer as defined by the IPC): That portion of the Low Pressure Wastewater System not owned or operated by SBWRD including a gravity wastewater service line from the building to a grinder pump installation, a grinder pump installation, a pressure discharge line with associated valving from the grinder pump installation to the Public Low Pressure Wastewater Line and the connection of the pressure discharge line to the Public Low Pressure Wastewater Line.
- V. Private Lateral Wastewater Line (Building Sewer as defined by the IPC): The wastewater line and appurtenances which provide the connection between a building in which plumbing fixtures are installed and the Public Wastewater System. The Private Lateral Wastewater Line shall include ejector pumps and appurtenances located outside of buildings, grease, oil, and sand interceptors and sampling manholes, if required for the building. For the purposes of these regulations, the Private Lateral Wastewater Line begins 30 inches outside the building and includes the connection to the Public Wastewater System collection line. Lateral stubs installed with the Public Wastewater System construction are part of the Private Lateral Wastewater Line.
- W. Private Wastewater System: That portion of the wastewater system not owned, or operated by SBWRD. This shall include but not be limited to Private Lateral Wastewater Lines, Private Lateral Low Pressure Wastewater Lines, Common Private Lateral Wastewater Lines, and private "ejector" pumps.
- X. Project Engineer: The company or firm and its employees hired by the Developer to provide the design of the project.
- Y. Project Manager: The person or persons hired by the Developer to provide project management for the project.
- Z. Project Surveyor: The company or firm and its employees hired by the Developer to provide the

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- construction staking and record drawing survey for the project.
- AA. Public Low Pressure Wastewater Line: That portion of the Low Pressure Sewer System owned and operated by SBWRD and consisting of low pressure wastewater main lines located within dedicated public roadways or easements, low pressure flushing connections, the connection of the low pressure wastewater main line to the gravity Public Wastewater System and other associated facilities.
- BB. Public Wastewater Line: That portion of the wastewater collection system owned and operated by SBWRD and located within dedicated public roadways or within easements granted to SBWRD across private roadways or other private property . This shall include public gravity flow wastewater lines 8 inches or larger, manholes, Public Low Pressure Wastewater Lines and appurtenances, and force mains from wastewater pump stations. Some existing public gravity flow wastewater lines are 6 inch diameter.
- CC. Public Wastewater System: Public wastewater lines, public wastewater pump stations, force mains, and water reclamation facilities, accepted by SBWRD.
- DD. Reimbursable Costs: Costs determined by the Board of Trustees to be paid to the Developer of a project in which wastewater improvements are installed which would not normally be required to be installed at the Developer's expense or not necessary to provide wastewater service to that project according to these regulations.
- EE. Residential Equivalent (RE): A unit of measurement used to equate wastewater flow from a building or facility to a typical three bedroom single family residence. The assumed wastewater flow from one Residential Equivalent unit equals 320 gallons per day.
- FF. SBWRD District Engineer: The individual employed by SBWRD responsible for the coordination of development within SBWRD, or his designated representative.
- GG. SBWRD Inspector: The person assigned by SBWRD to make inspections of Public Wastewater System extensions or modifications and Private Lateral Wastewater Lines.
- HH. "Shall"/"Should": Where the term "shall" is used, it is intended to mean mandatory requirement. Other terms such as "should" and "recommend" indicate discretionary use.
- II. Substantial Completion Date: The date when the Public Wastewater System improvements in a Project are sufficiently complete to be utilized for wastewater service as determined by SBWRD. The wastewater system improvements shall remain the property of the developer with respect to ownership, maintenance, and repair or replacement until Final Project Approval is granted.
- JJ. Warranty Period: The period of time following Final Project Approval during which the Developer and Contractor remain responsible for problems with the Public Wastewater System improvements due to defects in material and workmanship.
- KK. Wastewater Service Application: An application submitted to SBWRD by a homeowner, builder, building owner, facility owner or authorized agent to connect to and use the Public Wastewater System.

### 101.7 Referenced Codes and Standards

- A. When reference is made to a Standard Specification (ASTM, International Plumbing Code, Park City Standards, Summit County Standards, etc.), the specification referenced shall be understood to mean the latest revision of said specification.
- B. When not directly applicable to certain aspects of wastewater system construction projects, the referenced standard specifications may be modified or deleted by appropriate notation on the Approved Construction Drawings.

### 101.8 Indemnification of SBWRD

- A. SBWRD, its employees, officers, independent contractors, and agents shall be indemnified and held harmless from all claims resulting from the design, construction, inspection and operation of the new wastewater facilities which arise prior to Final Project Approval and acceptance of the wastewater improvement facilities by SBWRD.
- B. Public liability and property damage insurance shall meet the requirements contained in Appendix A of the LEA.

### 101.9 Contractor Licensing Requirements

- A. Contractors performing construction on the wastewater system within SBWRD shall possess all licenses required by local and state rules and regulations.
- B. As a minimum Contractors shall possess a valid Utah Contractor's License and shall be licensed and insured to perform wastewater system construction in accordance with state law.

## SECTION 102 POLICIES

### 102.1 Access to Public Wastewater System

- A. The design and construction of extensions or modifications of the Public Wastewater System for all new developments shall provide a Public Wastewater Line adjacent to all lots or parcels within each developed property for connection of Private Lateral Wastewater Lines.
- B. A Private Lateral Wastewater Line serving a lot or parcel shall not cross another lot or parcel to access

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the Public Wastewater System.

- C. Private Lateral Wastewater Lines may cross platted common areas, and platted private roads within the same platted development, provided the development dedication plat specifically dedicates these areas for private utilities and the Homeowners Association that controls those common areas and private roads is responsible for ownership and maintenance of the Private Lateral Wastewater Lines.
- D. A Private Lateral Wastewater Line shall not extend into a public right-of-way for a distance greater than the record width of the street, alley or public right-of-way to access the Public Wastewater System.
- E. To meet the requirements of this policy, individual ejector or grinder pumps, Low Pressure Sewer Systems, Off-road Public Wastewater Lines, or Public Wastewater Pump Stations may be required to serve some lots, parcels or projects.

### 102.2 Ranking of Method of Providing Public Wastewater Service

- A. The method of providing public wastewater service to a development or to lots or parcels within a development shall comply with the following priority ranking order. A higher ranked method is preferable, and if feasible, will be required, over a lower ranked method.
  - 1. Gravity flow public wastewater collection lines located in maintained public or private streets, roads or rights-of-ways with gravity flow or ejector pump pressure private laterals.
  - 2. Low Pressure Sewer System with the public portion of the system located in maintained public or private streets, roads or rights-of-ways and low pressure sewer system private laterals.
  - 3. Gravity flow public wastewater collection lines located in off-road areas with gravity flow or ejector pump pressure private laterals.
  - 4. Low Pressure Sewer System with the public portion of the system located in off-road areas and low pressure sewer system private laterals.
  - 5. Public Wastewater Pump Stations.
- B. The proposed method of providing public wastewater service to each project or development shall require review and approval by SBWRD.

### 102.3 Off-Road Public Wastewater Lines

- A. All wastewater lines that are part of the Public Wastewater System, including gravity flow lines, low pressure sewer system lines, and pump station force mains, shall be located in maintained public or private streets, roads or rights-of-way.
- B. If local conditions prevent compliance with this policy, SBWRD may allow Off-Road Public Wastewater Lines if the following requirements are met.
  - 1. The Developer shall execute an Agreement for Off-Road Public Wastewater Lines in the form

contained in Appendix A. The Agreement shall fully indemnify and hold harmless SBWRD from all costs and damages which may arise due to stoppages and/or overflows in the Off-Road Public Wastewater Line for which SBWRD is unable to respond due to limited access.

- 2. The Developer shall pay an Off-Road Public Wastewater Line Maintenance Fee. The amount of the Off-Road Public Wastewater Line Maintenance fee shall be according to the Agreement for Off-Road Public Wastewater Line in Appendix A.
- 3. The Off-Road lines shall meet the requirements of these SBWRD Standards.
- 4. A roadway platform meeting the requirements of the standard details in Appendix C shall be provided over the entire length of the Off-Road Public Wastewater Line.
  - a. Turn-arounds with a minimum radius of 40' shall be provided at appropriate locations.
  - b. If the slope of the surface over the length of the Off-Road Public Wastewater Line exceeds 15%, an alternate access road to each manhole or access and maintenance feature on the line, with a maximum slope of 15% shall be provided.
  - c. Maximum grade transition of roadway platform and alternate access road shall be 10% in 50'.
  - d. Access easements for all alternate access roads and turnarounds shall be granted to SBWRD.
- 5. Revegetation and erosion protection of the off-road corridor shall be provided. Revegetation plans shall specifically exclude trees, bushes or other vegetation that would impede travel along the corridor by SBWRD personnel and equipment.
- 6. Construction operations and revegetation shall meet Summit County requirements for control of noxious weeds.
- 7. Additional design considerations may be required. These may include, but are not limited to:
  - a. Increased pipe sizes and slopes.
  - b. Increased 'drop' through manholes.
  - c. Limited number of Off-Road line segments.
  - d. Use of specific pipe materials, bedding, and construction techniques.
- C. Agreements for Off-Road Public Wastewater Line shall be in place and all associated fees paid prior to Final Design Approval.
- D. The Developer shall be solely responsible for revegetation and erosion protection of Off-Road Public Wastewater Line corridors for two years following Final Project Approval of the wastewater improvements. Additional Improvement Completion

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Agreement monies will be required for revegetation and erosion protection during the two year period and the Improvement Completion Agreement shall remain in place during that two year period.

### 102.4 Low Pressure Sewer Systems (LPSS)

- A. Public Wastewater System design shall avoid Low Pressure Sewer Systems. SBWRD permits the construction of Low Pressure Sewer Systems as part of the Public Wastewater System only under certain limited conditions.
- B. SBWRD will permit Low Pressure Sewer Systems to be used as part of the extension to the Public Wastewater System only where, in the sole discretion of SBWRD, the option of providing wastewater service by gravity flow main lines in roads, as described in Section 102.2, is not feasible.
- C. If the use of a Low Pressure Sewer System is approved by SBWRD the following requirements shall be met.
  - 1. The Developer and Homeowner's Association, or other entity approved by SBWRD, shall execute an Agreement for Low Pressure Sewer Systems in the form contained in Appendix A.
  - 2. The Low Pressure Sewer System shall meet the requirements of these SBWRD Standards.
  - 3. The Agreement for Low Pressure Sewer System shall be in place prior to Final Design Approval.

### 102.5 Public Wastewater Pump Stations

- A. Public Wastewater System design shall avoid wastewater pump stations. SBWRD permits the construction of wastewater pump stations as part of the Public Wastewater System only under certain limited conditions.
- B. SBWRD will permit wastewater pump stations to be used in connection with extensions to the Public Wastewater System only where, in the sole discretion of SBWRD, no physically feasible, financially reasonable, or legally achievable gravity flow collection system or low pressure sewer system can be constructed to avoid the use of the pump station.
  - 1. Financially reasonable is defined as the capital cost of a gravity flow or low pressure system with a cost equal to or less than an amount which is equal to three (3) times the total actual (not present value) twenty (20) year operating, maintenance and replacement costs of a pump station. All capital costs, including, but not limited to, designing and constructing a pump station are to be included in the above calculation. Cost estimates used for this evaluation shall be prepared by the Project Engineer and approved by SBWRD.
  - 2. Legally achievable means the Developer has no property interest, and cannot acquire an interest in the necessary property, such as an easement,

which will allow the applicant to dedicate an easement to SBWRD for the proposed gravity flow or low pressure system.

- C. Wastewater pump stations serving areas outside the natural East Canyon and Silver Creek drainage basins shall not be considered as a design alternative, unless the Developer agrees to pay to SBWRD a sum equal to 20 years operating, replacement, and repair cost for the pump station.
- D. Wastewater pump stations shall be designed and constructed according to these SBWRD Standards. Equipment and material which minimize operational costs and other replacement and repair expenses to SBWRD in the future shall be used.

### 102.6 Common Private Lateral Wastewater Lines

- A. Each residence, building or other facility shall connect to the Public Wastewater System by way of a separate Private Lateral Wastewater Line.
- B. SBWRD will permit a Common Lateral Wastewater Line only under the following conditions.
  - 1. Multiple buildings (main house, guest house, barn, etc.) located on the same residential lot.
  - 2. Stacked units where the upper unit(s) has no direct access to a separate Private Lateral wastewater Line.
  - 3. Individual units that are not stacked provided the following conditions are met.
    - a. A separate Private Lateral Wastewater Line to each unit is not feasible.
    - b. Laterals shall be located within platted common areas. Dedicated common areas such as crawl spaces, underground parking garages, common yard areas, etc., are acceptable locations.
    - c. Limited to projects which are to be platted as condominium developments. The use of Common Lateral Wastewater Lines for projects other than condominium developments, but which meet all Common Lateral Wastewater Line criteria, is subject to the approval of SBWRD.
- C. Grease interceptors shall not be placed on common laterals. All facilities or businesses requiring a grease interceptor shall have a separate grease interceptor.
- D. A special notation will be required on the development recordation plat, except for multiple buildings located on the same residential lot. This notation shall read as follows, unless otherwise approved or required by SBWRD:

“The units of this (condominium, building, development) are served by a Common Private Lateral Wastewater Line. The (Name of Project) (Homeowner's, Condominium, Building) Association shall be responsible for ownership, operation and maintenance of all Common Private Lateral Wastewater Lines.”

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- E. If re-platting of a lot or development which has been approved with a Common Private Lateral Wastewater Line is proposed, and the re-platting would cause the private laterals serving the lot or development to not be in compliance with this Common Private Lateral Wastewater Line policy, then modifications to the common private lateral(s) serving the lot or development to conform to this policy or, if approved by SBWRD, revised plat notes addressing responsibility for ownership, operation and maintenance of the Common Private Lateral Wastewater Line will be required.
- F. Common Lateral Wastewater Lines shall have a nominal inside diameter of 6 inches unless the Common Lateral Wastewater Line serves multiple buildings on the same residential lot, in which case a nominal inside diameter of 4 inches may be used. When the cumulative flowrates of buildings or unit grouping requires a wastewater lateral to be sized in excess of 6 inch diameter, a Public Wastewater Collection Line shall be provided in accordance with these SBWRD Standards.
- G. Manholes are not allowed to be installed on Common Lateral Wastewater Lines.
- H. The connection of Common Lateral Wastewater Lines to the Public Wastewater Collection System shall be as follows:
  - 1. Connect to an existing or proposed manhole. (SBWRD preferred location)
  - 2. Connect to a proposed Public Wastewater Collection Line with an approved lateral connection.
  - 3. Connect to an existing Public Wastewater Collection Line with an approved lateral connection. Connection to an existing Public Wastewater Collection Line is subject to review of the condition of the existing collection line by SBWRD.