

**REQUEST FOR DEVIATION
WATER AND WASTEWATER SYSTEM STANDARD SPECIFICATIONS**

PRODUCT NAME:

PRODUCT DESCRIPTION:

DISTRIBUTOR'S NAME:

DISTRIBUTOR'S ADDRESS:

DISTRIBUTOR'S PHONE NUMBER:

MANUFACTURER'S NAME:

MANUFACTURER'S ADDRESS:

MANUFACTURER'S PHONE NUMBER:

- * Give current standard that this product complies with (ASTM, AWWA, etc.)
- * Attach any product information that the manufacturer wishes considered.
- * Attach list of current users of this product that we can contact.
- * Review of this product by the District does not guarantee its acceptance or use in the Wastewater System. A test section or project maybe required prior to general acceptance or use.

WATER and SEWER MAIN EXTENSIONS

Any changes or alterations affecting the grade, alignment, elevation and/or depth of cover of any water or sewer mains or other appurtenance shown on this drawing shall be the responsibility of the Owner/Developer. The Owner/Developer shall be responsible for all operational damages and defects in installation and material for mains and services from the date of approval until final acceptance is issued.

Signed _____ Date _____
Owner/Developer

Print Name _____

DBA _____

Address _____

FIRE AUTHORITY APPROVAL

The number of fire hydrants and hydrant locations shown on this water installation plan are correct and adequate to satisfy the fire protection requirements as specified by the Fire District serving the property noted on the plans.

Fire Protection District _____

Signed _____ Date _____
Fire Protection District

DISTRICT APPROVALS

The Widefield Water and Sanitation District recognizes the design engineer as having responsibility for the design and has limited its scope of review accordingly.

**WIDEFIELD WATER AND SANITATION DISTRICT
WATER DESIGN APPROVAL**

Date: _____ **By:** _____

PROJECT NO. _____

In case of errors or omissions with the water design as shown on this document the standards as defined in the "Rules and Regulations for Installation of Water Mains and Services" shall rule.

Approval expires 180 days from Design Approval

The Widefield Water and Sanitation District recognizes the design engineer as having responsibility for the design and has limited its scope of review accordingly.

**WIDEFIELD WATER AND SANITATION DISTRICT
WASTEWATER DESIGN APPROVAL**

Date: _____ **By:** _____

PROJECT NO. _____

In case of errors or omissions with the water design as shown on this document the standards as defined in the “Rules and Regulations for Installation of Wastewater Mains and Services” shall rule.

Approval expires 180 days from Design Approval

WIDEFIELD WATER AND SANITATION DISTRICT GENERAL NOTES

1. All utility construction to be conducted in conformance with the current Widefield Water and Sanitation District specifications. Compaction requirements shall be 95% Standard Proctor as determined by ASTM D698, unless otherwise approved by the Widefield Water and Sanitation District or a higher standard is imposed by another agency having right-of-way jurisdiction.
2. All materials and workmanship shall be subject to inspection by the Widefield Water and Sanitation District. The Widefield Water and Sanitation District reserves the right to accept or reject any such materials and workmanship that does not conform to its standards and specifications.
3. The Developer or his Engineer has located all fire hydrants and future service stubs. Any required realignment, either horizontal or vertical, shall be at the expense of the Developer.
4. All ductile iron pipe, to include fittings, valves and fire hydrants will be wrapped with polyethylene tubing, and electrically isolated.
5. All ductile iron pipe and fittings shall be double bonded. Specifications for cathodic protection on both Dip mains and PVC mains is specified in the Standards and Specifications.
6. PVC main lines shall be installed with coated No. 12 tracer wire.
7. The Contractor is required to notify the Widefield Water and Sanitation District (390-7111) a minimum of 48 hours and a maximum of 96 hours prior to the start of construction. The Contractor shall also notify affected utility companies 48 hours prior to construction adjacent to the known utility lines.
8. The location of all utilities as shown on these drawings are approximate only. The location of all utilities shall be verified prior to construction by the Contractor.
9. The Contractor shall field excavate and verify the vertical and horizontal location of all tie-ins. Contractor shall notify the Widefield Water and Sanitation District and the Engineer of the field verified information prior to construction.
10. All bends shall be field staked prior to construction.
11. Any water utility material removed and not reused shall be returned to the Widefield Water and Sanitation District if the District so requests.
12. The Contractor shall at his expense support and protect all utility mains so that they will function continuously during construction. Should a utility main fail as a result of the Contractor's operation, it will be replaced immediately by either the Contractor or the Widefield Water and Sanitation District at full cost of labor and materials to the Contractor.
13. Any pumping or bypass operations must be reviewed and approved prior to execution by both the Widefield Water and Sanitation District and the Engineer.
14. Contractor must replace or repair any damage to all surface improvements, including but not limited to fences, curb and gutter and/or asphalt that may be caused during construction.
15. All water lines 6" and larger, and all sewer lines 8" and larger, shall have as "As-Built" plans prepared and approved prior to final acceptance by the Widefield Water and Sanitation District.
16. Prior to construction, a Pre-Construction Conference is required a minimum of 72 hours in advance of commencement of work. To set the Pre-Construction conference, contact Brandon Bernard-Water Superintendent (491-2051) and/or Mark McCormick, Wastewater Superintendent (491-0128) of the Widefield Water and Sanitation District for a time. No Pre-Construction Conference times will be set until 4 sets of signed drawings are received by the Widefield W & S District. Pre-Construction Date /Initials_____.

Grease Interceptor Standards

- A. General** A grease interceptor shall be installed when in the judgment of the District Manager it is necessary for the proper handling of liquid wastes containing grease or solids which may be harmful to, or cause obstruction of the publicly owned treatment works, or interfere with the operation of the treatment works and its mains.

All food preparation establishments shall install a grease interceptor to all drains from the kitchen, food preparation, and dishwashing areas. Fixtures to be connected include, but are not limited to, scullery sinks, pot and pan sinks, dishwashing machines, soup kettles, and floor drains located in areas where grease-containing materials may exist. When deemed necessary by the District, garbage disposals may be required to be connected to an approved interceptor.

Toilets, urinals and similar fixtures shall not waste through the interceptor. All waste shall enter the interceptor through the inlet pipe only.

Installation of an interceptor will not be required of facilities that do not cook the food that is served, and/or do not wash equipment or utensils associated with preparation or service of cooked foods.

- B. Approval** The size, type and location of each interceptor shall be approved and inspected by the District, in accordance with District standards regarding interceptors. Except where otherwise specifically permitted, no wastes other than those requiring separation shall be discharged into any interceptor. One (1) set of plans, including complete mechanical and plumbing sections shall be submitted to the District for approval prior to construction. Such plans shall include the size, type and location of each interceptor.
- C. Design** All interceptors for grease and heavy solids shall be so designed and located as to be readily accessible for cleaning and shall have a water seal of not less than six inches (6"). Interceptors shall be constructed in accordance with the design specifications contained herein, shall be approved by the District Manager, and shall have a minimum of two (2) compartments with fittings designed for grease retention. There shall be a minimum of two manholes to provide access for cleaning and inspection of all fixtures and compartments of the interceptor; a minimum of one (1) per ten feet (10') of interceptor length. In the case of smaller, or circular interceptors, where it is not practical to install two (2) manholes, a single manhole shall be located so as to permit entrance to the first compartment, and inspection to the second. All areas of the second compartment shall be accessible for cleaning.
- D. Location** All interceptors shall be readily accessible for inspection, servicing and maintaining in proper working condition. The use of ladders or the removal of bulky equipment in order to inspect or service interceptors shall constitute a violation of accessibility. Where feasible, all interceptors shall be located outside of the facility served. Interceptors may not be installed in any part of a building where food is handled. Location of all interceptors shall be approved by the District Manager, and shall be shown on the approved building plan.
- E. Maintenance** Interceptors shall be maintained by regularly scheduled removal of the accumulated grease and solids. This maintenance shall be performed before the retention capacity of twenty-five percent (25%) of the interceptor. Failure to clean the interceptor at twenty-five percent (25%) or more of capacity shall incur a \$500.00 penalty for

discharging grease into the sanitary sewer system. Records of maintenance shall be maintained on site and be available for inspection during regular business hours.

F. Sizing Criteria When determining the minimum size of the interceptor required, the following shall be considered:

The minimum acceptable volume shall not be less than seven hundred fifty (750) gallons. (With dishwasher - one thousand (1,000) gallons.)

The size of the interceptor shall be based in maximum number of meals served at the maximum periods of the day (either breakfast, lunch or dinner). Volume, in gallons; of the interceptor shall be two and one - half (2 ½) gallons multiplied by the maximum number of meals served during the busiest period of the day.

An alternate method of determining the size of the grease interceptor is to multiply seating capacity times a turnover constant of one and six tenths (1.6) times two and one - half (2 ½) gallons. Seating capacity can be approximated, using ten (10) square feet of dinning area per person. (Volume = seating capacity x 1.6 x 2 ½ gallons)

When the above methods are not feasible, an appropriate volume may be determined by multiplying the total rate of flow in gallons per minute from each fixture required to be connected to the interceptor times a minimum retention time of not less than fifteen (15) minutes, the resulting volume expressed in gallons.

<u>TYPE OF FIXTURE</u>	<u>RATE OF FLOW (GPM)</u>
Floor Drain/Sink	10
Restaurant Kitchen Sink	15
Single Compartment Scullery Sink	20
Three Compartment Sink	35
2 Single Compartment Sinks	25
2 Double Compartment Sinks	35
Restaurant Dishwasher	
Up to 30 Gallon Capacity	15
30 to 50 Gallon Capacity	25
50 to 100 Gallon Capacity	40
Garbage Disposal/Grinder	35

G. Variances Variances to the above standards and criteria shall be valid only when the discharge from the user is in compliance with the District's regulations.

In the event that a variance to the minimum size requirement is granted, in no case shall the retention capacity of the trap be less than one hundred (100) pounds. The minimum inspection/cleaning frequency of any indoor trap shall be monthly, and a written record of all inspections or maintenance shall be maintained on site.