



One City Plaza, Suite B
P.O. BOX 1287
Cabot, Arkansas 72023
Phone 501-843-4654

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Cabot WaterWorks Grinder Pump Procurement and Installation Guide

Grinder Pumps are only permitted in neighborhoods that were specifically designed for pumped sewer.

Obtaining a Grinder Pump to connect to the Cabot WaterWorks sewer system is a multi-step process. This Guide is intended to assist you through the process.

STEP ONE

First you must pay Cabot WaterWorks a connection fee of \$300.00 and acknowledge receipt of this Guide from us. Cabot WaterWorks charges the \$300.00 connection fee pursuant to City Ordinance No. 28, 1998. This fee must be paid at the Cabot WaterWorks Billing Office before you proceed to purchase your new Grinder Pump from our "approved" vendor.

STEP TWO

After you have paid the connection fee and acknowledge receipt of this Guide, you must purchase your Grinder Pump Station from the approved vendor below:

Haynes Equipment phone: 501-316-4120
Scott Sells, E-One Product Specialist, Cell: 501-722-7978,
Dave / Service: 501-722-8843
Haynes Equipment
13401 E. 1st Street
Alexander, AR 72002

As a Cabot WaterWorks customer, you must use the following E/ONE Grinder Pump Station to connect with our sewer system.

E/ONE MODEL WH101-74 STATION

Consisting of:

E/ONE Installation Instructions

E/ONE Grinder Pump MODEL WH101-74

30 x 74" HDPE Basin with Stainless Steel Band Clamp

Model SENTRY Simplex Alarm Panel

32' of Power Cable with EQD

Redundant Check Valve

The price for the complete Grinder Pump Station will be \$3,376.99 tax included.

STEP THREE

The Grinder Pump Station, consisting of the basin, alarm panel, power cable and check valve must be installed and inspected before Haynes Equipment will install the actual Grinder Pump. **Only Haynes Equipment can install the actual Grinder Pump.**

You (or your plumber or electrician) may pick up the Grinder Pump Station from Haynes Equipment. You must pay for the Grinder Pump Station when you pick it up from Haynes Equipment or you must have



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approved credit with Haynes Equipment. Cabot WaterWorks has no control or authority with respect to whom Haynes Equipment issues or approves credit.

Alternatively, Haynes Equipment will deliver the Grinder Pump Station to the installation address within four (4) working days after receipt of payment for the Grinder Pump Station (or approved credit) at no cost to you. If you decide to use Haynes Equipment's delivery service, you, or your authorized representative, must be present at the time of delivery to sign for the Grinder Pump Station. The customer shall be responsible for any damage to the Grinder Pump Station after taking delivery, including once it is in the ground.

STEP FOUR

The Grinder Pump Station must be installed in strict accordance with E/ONE installation instructions, included with the Grinder Pump Station, and the additional requirements of Cabot WaterWorks below. **The Customer will be held responsible for damage to the basin and all equipment furnished with the Grinder Pump Station.**

- a.) Do not install the Grinder Pump Station until the building construction process is complete or near completion, i.e., sheetrock finished, painting complete, tile floors complete, etc. Should necessity require that the Grinder Pump Station be installed at an earlier time, i.e., retaining wall landscape issue, etc., the four-inch (4") sewer connection between the house and Grinder Pump Station shall be made just prior to Grinder Pump start-up or you will invalidate the sixty (60) month warranty.
- b.) Install the basin at a depth so the finished grade will not be above the level marked on the basin, in strict accordance with E/ONE installation instructions
- c.) Pour 2.7 cubic feet of concrete ballast around the base of the basin, in strict accordance with E/ONE installation instructions.
- d.) All plumbing connections shall be performed by a licensed plumber. Plumbers must be certified by Haynes Equipment Engineering to install a Grinder Pump. The sewer pipe from the building to the basin shall be 4" Schedule 40 (DWV) pipe. The pump discharge pipe from the basin to the street service shall be a minimum 1.5" AWWA Cross-linked Polyethylene (PEX), Pressure Class 160psi SDR9 pipe. Pipe splices/couplings are not allowed between the tank and the connection at the street. Pipe connections shall be female threaded Brass pack joint couplings sized for the pipe OD. "Fernco" couplings are prohibited on the pump discharge piping.

The pump discharge pipe from the basin to the street shall have a minimum clearance of 3' (feet) from all other utilities and a minimum of 18" of ground cover. If the 1.5" PEX pipe crosses under a sidewalk or driveway, then a 2" PVC sleeve (encasement) shall be installed under the concrete or asphalt surfaces.

All 4" DWV pipe and 1.5" PEX pipe shall be bedded with select gravel bedding no larger than 5/8". A Green 12-gauge tracer wire shall be installed in the trench with the 1.5" PEX pipe and extended into the valve box at the street and extended up above ground at the basin wrapped around a screw on the lid. Backfill around the basin shall be 5/8" gravel up to a level 6" above all piping. All backfill shall be compacted to provide the same bearing capacity as adjoining undisturbed native soil. The Installer will be responsible for cost to repair damaged pipe and tank fittings caused by settlement.

- e.) The check valve furnished with the basin shall be installed at the connection to the basin. **If a spring-loaded check valve was previously installed at the service valve box, this check valve must be cut out and replaced with the redundant check valve furnished with the Grinder Pump assembly.**
- f.) **Cabot Waterworks Inspectors must verify that the check valve installed is the correct type. No spring-loaded check valves are permitted.** The spring causes debris to clog the check valve.



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- g.) If a service line was not previously been installed to the lot, then a service tapping saddle shall be installed per Cabot Water Works Standard Construction Specifications. A Cabot WaterWorks Inspector must be present during final connection to the sewer system. Call Cabot WaterWorks Inspection Department at 843-4654 to request final connection.
- i.) **Before you (or Installer) backfills** around the basin and pipe, you must contact the City of Cabot, Public Works Department Plumbing Inspector and Cabot WaterWorks Inspectors at 843-4654. **Request “a plumbing inspection of piping and concrete ballast for a grinder pump basin”.** The City of Cabot Public Works Department’s phone number is 843-4819. We have no control or authority over how quickly or when the Cabot Public Works Department will be able to inspect plumbing to the basin, but Haynes Equipment cannot install the Grinder Pump until this inspection is complete. Therefore, Cabot WaterWorks suggests that you contact the Cabot Public Works Department as soon as possible.

STEP FIVE

Even after the Grinder Pump Station has been installed and Cabot Public Works Department has inspected the plumbing to it, there is some additional work that must be performed before Haynes Equipment can install the actual Grinder Pump. Cabot Public Works Department inspects only the plumbing to the Basin and the Electrical disconnect specified below.

Before Haynes Equipment can install the actual Grinder Pump, you (or your electrician or contractor) must complete the following items:

- a.) You must furnish and install a 240v, 30-amp, double pole electric disconnect outside the building four feet six inches (4’-6”) above finished grade and within 20 feet of the basin. The electric disconnect shall be wired with 10-3 wire w/ground and the power turned on to the Disconnect. All wiring shall be installed by a licensed electrician and shall conform to the National Electrical Code. Electrical wiring to the Disconnect must be inspected by Cabot Public Works Department, Electrical Inspector. Call Public Works Department at 843-4819. **Request “an electrical inspection of wiring to the grinder pump basin”**
- b.) You must install the E/ONE Control/Alarm panel supplied with the Grinder Pump Station next to the electric disconnect with 10-3 wire w/ground, in conduit, to the E/ONE Alarm Panel.
- c.) You must supply and install a minimum of ¾” electrical conduit from the bottom of the Control panel to the basin using long sweep elbows.
- d.) You must install the Power Cable, supplied with the Grinder Pump, between the basin and the E/ONE Control panel and make final connections per E/One’s installation instructions. The power cable shall be installed in the electrical conduit and sealed at the base with NO silicone caulking only use duct seal.
- e.) You must have water service turned on to the building.
- f.) You must make sure the basin is pumped out and that all debris is removed from inside the basin. The basin shall remain clean and dry.
- g.) You must have the sewer service valve inside the valve box, located at the edge of your property or at the street, uncovered and the valve turned on. Care should be taken to exercise older valves. If the valve does not easily open, do not break the PVC handle, try WD40 on the valve stem or call Cabot Waterworks for assistance. The service valve must be easily accessible at all times in the future to open and close the valve by hand. **Do not cover or pave over the valve box.**



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- h.) Once all of the items above are completed (and not before), you may call Cabot WaterWorks Inspection Department at 843-4654 to request installation of the actual Grinder Pump. After Cabot WaterWorks Inspectors verify all items above are complete, Haynes Equipment will be notified in writing by Cabot WaterWorks to install the Pump. Haynes Equipment will install the pump within three (3) working days of the written request.
- i.) Certificate of Occupancy for the building will not be issued by Cabot Public Works until a Grinder Pump is installed. Once Haynes Equipment installs the pump a decal will be placed on the EONE control panel that is signed by a Haynes Equipment representative with a date the pump was installed.

ADDITIONAL CUSTOMER RESPONSIBILITIES

Cabot Ordinance 28 of 1998 requires the Developer/Builder/Contractor and/or Homeowner to install the grinder pump basin in accordance with this Procurement and Installation Guide. The individual that installs the station components and piping shall warrant the materials and workmanship for a period of 1 year after acceptance of the installation by Cabot Waterworks. During the one-year warranty period set forth above, Cabot WaterWorks has the option of performing work to remedy defects at Installer's expense if Installer does not remedy such defects in a timely manner.

Even after all of the inspections have been completed by Cabot Public Works and Cabot WaterWorks, you must make sure that the Grinder Pump Station remains in good condition for installation of the actual Pump by Haynes Equipment. Specifically, between the inspections and installation, the basin must remain pumped out, dry, clean and free of all debris. In the event the Grinder Pump Station is not pumped out, dry, clean and free of all debris, or in the event it is damaged between the time of the last inspection and the time Haynes Equipment arrives to install the pump, Haynes Equipment will not install the pump and may charge you a return trip fee of \$250.

WARNING: Grinder Pump Stations are easily susceptible to damage during the construction process once they are installed in the ground. Building contractors are notorious for damaging them during construction. You are responsible for the replacement costs of any Grinder Pump Station or Grinder Pump damaged by any person or equipment, including damage caused by debris in the sewer lines.

CUSTOMER WARRANTY

In most instances, Cabot WaterWorks, and not the customer, is responsible for replacement of any Grinder Pump that ceases to operate as designed. The customer, and not Cabot WaterWorks, is responsible for all damage caused to the Grinder Pump Station or the Grinder Pump by the deliberate or negligent actions of others, including, but not limited to, the customer and the customer's family, agents, invitees, and contractors.

In addition, the customer, and not Cabot WaterWorks, is responsible for any damage to a Grinder Pump or Grinder Pump Station caused by the introduction of any of the following into the sewer system:

Glass	Diapers, socks, rags or cloth	Stones, rocks, gravel or concrete
Metal	Plastic objects (toys, utensils, etc.)	Seafood shells
Kitty litter	Sanitary napkins or tampons	Explosives or Strong chemicals
Gasoline	Flammable material	Lubricating oil and/or grease

Once the Grinder Pump Station is operational, if the alarm activates or a sewer overflow occurs, the Customer should immediately call Cabot WaterWorks Wastewater department at 743-1428.



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The signature below indicates that the customer has received and read the four-page grinder pump procurement and installation guide.

Customer signature

Customer's printed name

Phone

Service Address

CWW Billing Representative

Date \$300 CWW fee paid