



**GENERAL NOTES:**

1. THE MINIMUM REQUIREMENTS FOR A RESIDENTIAL SEWAGE PUMPING SYSTEM CONNECTING A SINGLE RESIDENCE TO THE DISTRICT'S SYSTEM ARE SPECIFIED AS FOLLOWS. THE DISTRICT ACCEPTS NO RESPONSIBILITY FOR THE DESIGN, OPERATION AND MAINTENANCE OF SUCH PRIVATELY OWNED AND OPERATED SYSTEMS. INSTALLATION OF GRINDER PUMP SYSTEMS MUST BE PREAPPROVED BY THE DISTRICT.
2. ALL EQUIPMENT AND ACCESSORIES SHALL BE STANDARD MANUFACTURED ITEMS AND THOSE COMING IN DIRECT CONTACT WITH SEWAGE SHALL BE SPECIFICALLY MANUFACTURED FOR SEWAGE USE.
3. LIFT STATION MUST BE LOCATED OUTSIDE THE BUILDING. IF THE STATION IS COMPLETELY BURIED, INSTALL 48" I.D. MANHOLE WITH FRAME AND COVER OVER STATION FOR ACCESS.
4. THE PUMP SHALL BE E-ONE DH071 OR HYDRAMATIC HPG-200, AS SPECIFIED HEREIN. NO OTHER PUMP TYPES SHALL BE PERMISSIBLE.
5. A 12 GAUGE TRACER WIRE, COATED AND CONTINUOUS, SHALL BE WRAPPED AROUND THE ENTIRE COURSE OF THE FORCE MAIN AND BROUGHT TO THE SURFACE IN THE CLEAN-OUT BOX AND AT THE STATION.
6. FORCE MAIN TO BE 1/4" MIN. 200 PSI POLY PIPE, OR DISTRICT APPROVED EQUAL.
7. FORCE MAIN TO BE INSTALLED AT A CONTINUOUS UPHILL GRADE WITH NO JOINTS OR COUPLINGS IF PIPE RUN IS UNDER 500 FEET.
8. DETECTOR TAPE REQUIRED 1'-0" ABOVE PIPING WHEN FORCE MAIN CROSSES OTHER PROPERTIES OR IS LOCATED ALONG COMMON ACCESS ROADS.
9. EVERY INSTALLATION SHALL BE EQUIPPED WITH A WALL MOUNTED ALARM PANEL, INCLUDING RED ALARM LIGHT AND GENERATOR RECEPTACLE.

**SINGLE FAMILY GRINDER PUMP STATION  
DISCHARGE PIPING / GENERAL NOTES**

NOT TO SCALE

Detail Approvals	
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**NORTHSHORE UTILITY DISTRICT  
STANDARD SEWER DETAILS**

**14c**

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S-14C(GRINDERPUMP).dwg