CRANE
PUMPS & SYSTEMS

BARNES' PRESSURE SYSTEMS

Pre-Approval Submittal Overview of Equipment
For
Barnes™ Grinder Pump Stations

Project: County of Brunswick, North Carolina
Public Utilities Administration
Utilities Operation Center
Attn: Grinder Pump Station Packages
250 Grey Water Road NE
Supply, NC 28462
PH: 910-253-2681

Representative: Pumps, Parts, and Service, Inc.
9325 Forsyth Park Drive
Charlotte, NC 28273
PH: 704-588-6250
FX: 704-588-6258
Attn: Scott Dellinger

Prepared by: Crane Pumps & Systems, Inc.
Attn: Scott Krites, P.S. Applications
PH: 937-773-2772 ext 3044

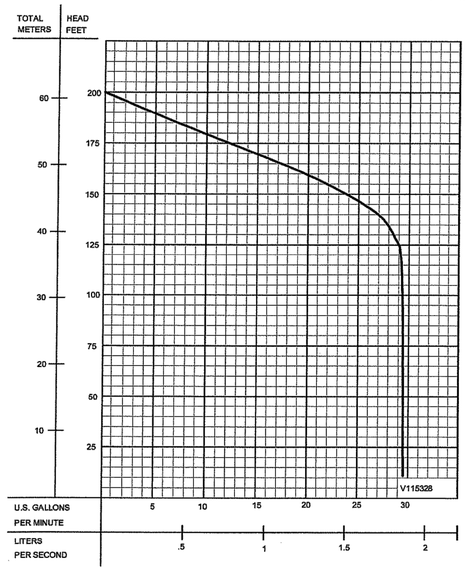
420 Third Street, Piqua, Ohio 45356 USA : (937) 778-8947 phone : (937)773-7157 fax : www.cranepumps.com

---

BARNES' PRESSURE SYSTEMS
www.cranepumps.com

Models OGP-L
Performance Curve
2HP, 345RPM, 60Hz

PS-093 — *Submersible Grinder Pumps*



Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

CRANE — A Crane Co. Company — PUMPS & SYSTEMS
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

SECTION	A
PAGE	3
DATE	3/07

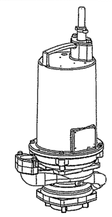
BARNES' PRESSURE SYSTEMS
www.cranepumps.com

Model OGP-L
Recessed Vortex

PS-091 — *Submersible Grinder Pumps*

Specifications:

DISCHARGE.....1¼" NPT, Vertical, Bolt-on Flange
LIQUID TEMPERATURE.....104°F (40°C) Continuous
VOLUTE.....Cast Iron ASTM A-48, Class 30
MOTOR HOUSING.....Cast Iron ASTM A-48, Class 30
SEAL PLATE.....Cast Iron ASTM A-48, Class 30
IMPELLERS:
Design..... 12 Vane,Vortex, With Pump Out Vanes On Back Side. Dynamically Balanced, ISO G6.3.
Material.....85-5-5-5 Bronze
IMPELLER SPACER.....300 Series Stainless Steel
SHREDDING RING.....Hardened 440C Stainless Steel Rockwell® C-55.
CUTTER.....Hardened 440CStainless Steel, Rockwell® C-55.
SHAFT.....416 Stainless Steel
SQUARE RINGS.....Buna-N
HARDWARE.....300 Series Stainless Steel
PAINT..... Air Dry Enamel.
SEAL:
Design..... Single Mechanical
Material.....Rotating Faces - Silicon-Carbide
Stationary Faces - Silicon-Carbide
Elastomer - Buna-N
Hardware -300 Series Stainless
CORD ENTRY.....30 ft. (9.1m) Std. Cord. Custom Molded Quick Connect, for Sealing and Strain Relief
CORD
Manual.....CSA/UL Approved 12/3 Type SOW
UPPER BEARING:
Design..... Single Row, Angular contact Ball
Lubrication.....Oil
Load.....Radial & Thrust
LOWER BEARING:
Design..... Single Row, Angular contact Ball
Lubrication.....Oil
Load.....Radial & Thrust
MOTOR:
Design..... NEMA L-Single Phase Torque Curve, Oil-Filled, Squirrel Cage Induction
Insulation.....Class F
SINGLE PHASE.....Capacitor Start/Capacitor Run.



Series: OGP
2HP, 3450RPM, 60Hz

Submersible Wastewater Pump Association SWPA MEMBER
omni GRIND plus GRINDER PUMPS
CSA 108 - File No. LR16567
UL 778

DESCRIPTION:
THE GRINDER PUMP IS DESIGNED TO REDUCE DOMESTIC SEWAGE TO A FINELY GROUND SLURRY.

CRANE — A Crane Co. Company — PUMPS & SYSTEMS
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

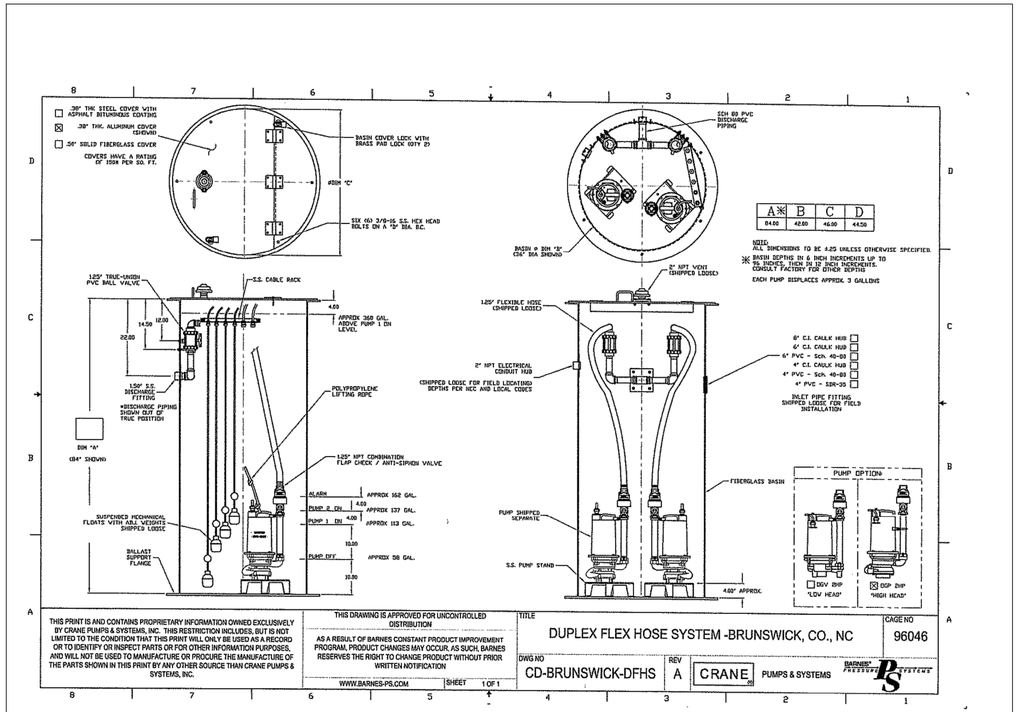
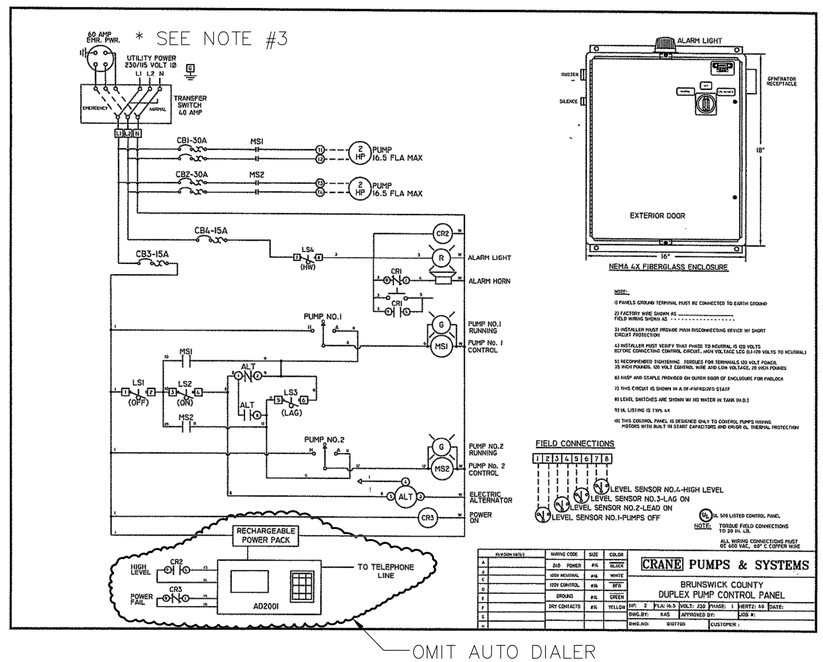
SECTION	A
PAGE	1
DATE	3/07

NOTE:

1. ALL COMMERCIAL AND MULTIFAMILY DUPLEX PUMP STATIONS TO BE OWNED AND OPERATED BY BRUNSWICK COUNTY WILL BE BUILT TO THE STANDARD OUTLINED IN THESE DETAILS, IN THE "BARNES DUPLEX PUMP SPECS", AND PER THE PROVISIONS OUTLINED IN THE "BRUNSWICK COUNTY GRINDER PUMP MAINTENANCE POLICY" WHICH CAN BE FOUND ON THE COUNTY ENGINEERING WEB PAGE.
2. REFER TO NCDEQ VARIANCE LETTER FOR OMISSION OF AUTO DIALER. LETTER CAN ALSO BE FOUND ON THE COUNTY ENGINEERING WEB PAGE.
3. 240 VAC, 60 AMPERE, SINGLE PHASE, NEMA 3R, DISCONNECT IS REQUIRED IMMEDIATELY ADJACENT TO THE PUMP CONTRROL PANEL.

Revisions
1.01 - DATED 9/20/2017
Added Note 3

COUNTY OF BRUNSWICK

COMMERCIAL & MULTIFAMILY
DUPLEX GRINDER PUMPSTATION DETAILS
BRUNSWICK COUNTY
NORTH CAROLINA

Date: 3-1-16
Scale: NTS
Drawn By: JDM
Checked By: