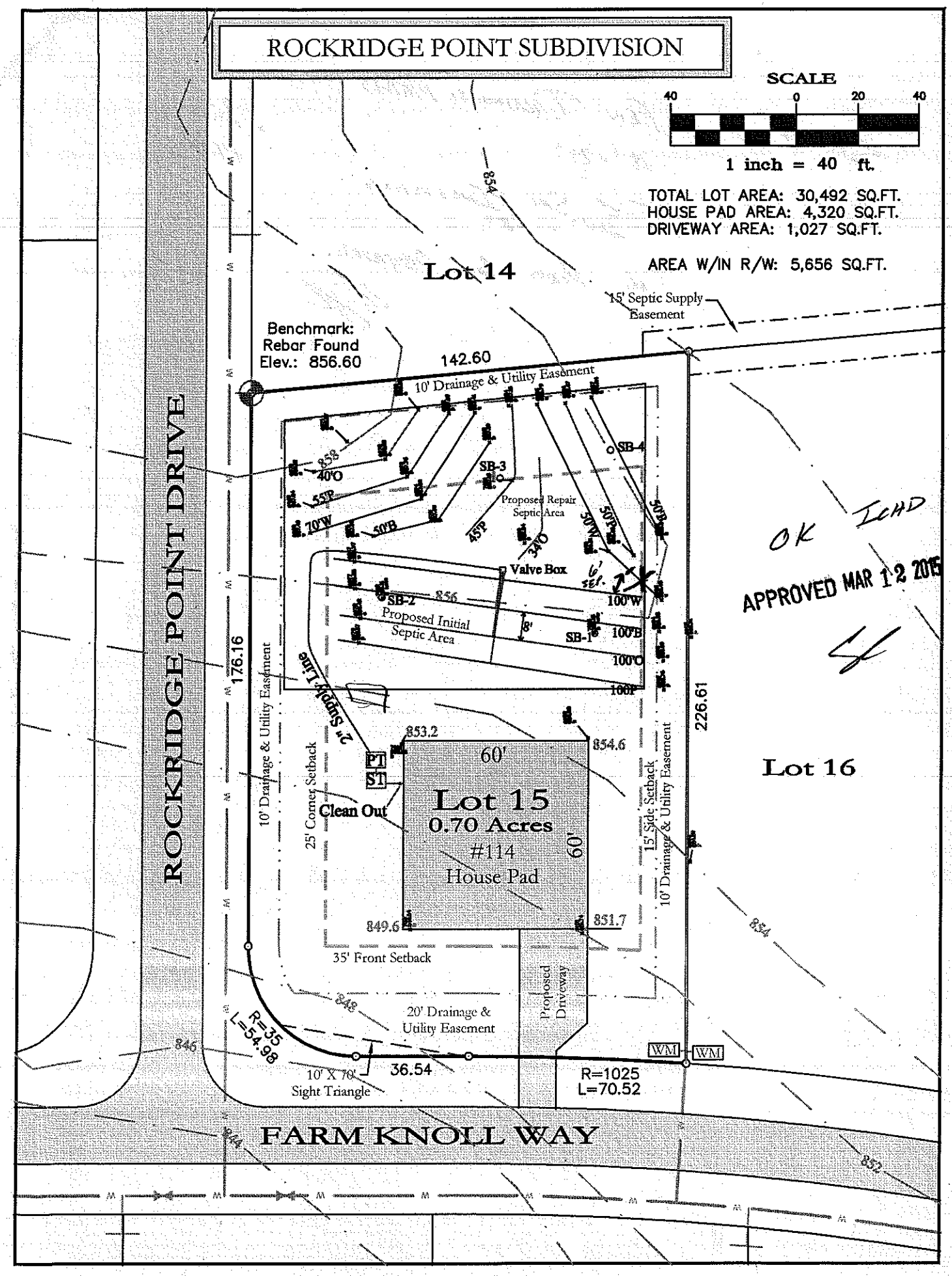
ROCKRIDGE POINT SUBDIVISION



SB 4

Few Drainage Mottles 18" - 24"

.25 LTAR.

F-C Sap Inclusions 24" - 48".

No Hard Sap Observed.

LPPPPBPS Design Worksheet (Primary System)					File #/Name:	Rock Ridge
System Requirements					Tax #:	4636233131.02
Number of bedrooms	4				Lot	15
Craw Space/Basement	Craw Space					
Daily Design Flow	480	gpd			Address:	Iredell County
LTAR	0.20	gpd/ft.^2			Consultant:	Septic Environmental Solutions Inc.
Linear footage	800.00	ft. (Conventional)			Phone:	704-502-5588, Fax 704-684-1469
Linear footage	400.00	ft. (50% Reduction)				
Design Layout						
Laterals	Length (ft)	# Panels	Calculated			
Line # 1	100	23	23			
Line # 2	100	23	23			
Line # 3	100	23	23			
Line # 4	100	23	23			
Line # 5		0	0			
Line # 6		0	0			
Line # 7		0	0			
Line # 8		0	0			
Line # 9		0	0			
Line # 10		0	0			
Line # 11		0	0			
Line # 12		0	0			
Totals	400	92	92			
	*Lines longer than 70 ft. must be center-fed to comply with sewage rules.					
Absorption Area						
Length (ft)	Width (ft)	Spacing	Area (ft^2)			
400	2	8	3000.00			
System Pressure Head	3	ft.	Value selected by system designer (must be between 2-5 ft.)			
Orifice Diameter	5/32	in.	Size selected by system designer (1/8 in. minimum)			
Flow Rate per Orifice/Panel	0.5	gpm	Determined from orifice flow design table (use table from Flow Rate tab)			
Total System Flow Rate	46	gpm	Total number of panels required multiplied by the orifice flow rate			
System Dose Volume	332	gal.	Total number of panels required multiplied by 3.6 gal./panel			
Doses Per Day	1.5	cycles	Number of dose cycles per day based on daily design flow. Daily design flow divided by system dose volume.			
Pump Run Time	7.22	min.	System dose volume divided by the total system flow rate			
Pump Tank Volume / Inch	29	gal./in.	1,000 gal. Pump tank, volume is approximately 21 gallons per inch. 1,500 gal. pump tank, volume is approximately 29 gallons per inch. Contractor is responsible in verifying tank gallons per inch.			
Pump Tank Drawdown	11.45	in.	System Dose Volume divided by gallons per inch for the designed tank size.			
Supply Line Length	76.00	ft				
Elevation head+pump height	9.15	ft.				
Friction Head	1.97	ft.				
20% Contingency	2.82	ft.				
Total Head	16.9					
Comments:						
1. Install system using 2 ft. wide trenches.						
2. Install drainlines on 8 ft. centers (to be specified by the designer) and must be level and on contour.						
3. System design requires effluent pump for distribution.				Yes		
4. Requires repair septic system.	Yes			Cells with blue shading require user input.		
5. Maintanance Agreement Required	Yes			Cells with yellow shading are automatically calculated.		

T&J Panel Summary Table

Linear Feet	# Panels
20	5
30	7
40	9
50	11
60	14
70	16
80	18
90	21
100	23
110	25
120	17
130	30
140	32
150	34
160	37
170	39
180	41
190	43
200	46

GOULDS PUMPS

Submersible Effluent Pump

MODEL 3885

WE Series

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.



APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump

- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ Class B insulation on ⅓-1½ HP models.

■ Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- ⅓ and ½ HP models have NEMA three prong grounding plugs.
- ¾ HP and larger units have bare lead cord ends.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

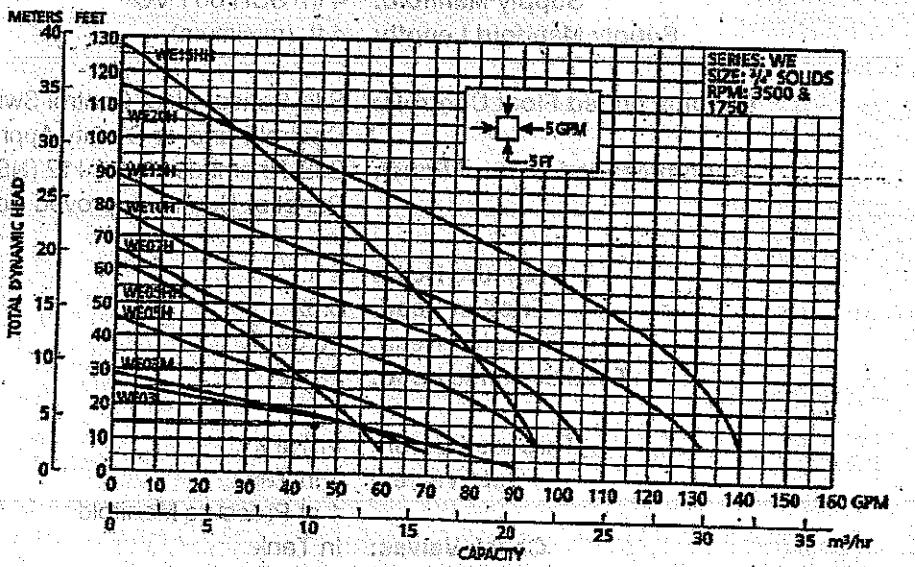
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

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