## CALCULATIONS

Location Sunset Pointe at the Harbour

Project Number 01-1602

Lot No: Lot 47

No. of Bedrooms 4

Design Flow 480 $^{gal}/_{day}$

LTAR 0.300 $^{gal}/_{ft^2\ day}$

PPBPS? (YES OR NO) YES

Supply Line Length 127 ft.

Supply Line Volume 22.098 gal.

Required Feet of Line 266.6667 ft.
Amount of Line from Layout 271 ft.

Gallons per Minute 25.64077 $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Minimum Standard Tank Size 1000

Panel Volume 3.6 gal.
# of Panels 63
Dosing Volume 151.96 gal.

*Note: Dosing Volume based on 67% of # of panels times 3.6 gal/panel*

Tank Draw Down 7.2 *Generic Draw Down of 21 gal.per in.*

Pump Run Time 5.93 minutes

Elevation Head 16.21 ft.
Pressure Head 2 ft.
Friction Factor 1.78 ft./100 ft. *(From the interpolater.)*
Friction Head 2.26 ft.

Total Dynamic Head (+15%) 23.54 ft.

FRICTION FACTOR
INTERPOLATER
2" SCH 40 PVC

| GPM | *f* |
|---|---|
| 20 | 0.84 |
| | -0.88 |
| 25 | 1.27 |
| | -1.28 |
| 30 | 1.78 |
| | -1.76 |
| 35 | 2.37 |
| | -2.25 |
| 40 | 3.03 |
| 43.07 | 3.48 |
| 45 | 3.77 |
| 48.14 | 4.28 |
| 50 | 4.58 |
| 57.11 | 5.89 |
| 60 | 6.42 |

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Design Flow 480 $^{gal}/_{day}$

LTAR 0.300 $^{gal}/_{ft^2\ day}$

PPBPS? (YES OR NO) YES

Supply Line Length 127 ft.

Supply Line Volume 22.098 gal.

Required Feet of Line 266.6667 ft.
Amount of Line from Layout 271 ft.

Gallons per Minute 25.42 $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Minimum Standard Tank Size 1000

Panel Volume 3.6 gal.
# of Panels 62
Dosing Volume 149.54 gal.

*Note: Dosing Volume based on 67% of # of panels times 3.6 gal/panel*

Tank Draw Down 7.1 *Generic Draw Down of 21 gal.per in.*

Pump Run Time 5.88 minutes

Elevation Head 16.21 ft.
Pressure Head 2 ft.
Friction Factor 1.78 ft./100 ft. *(From the interpolater.)*
Friction Head 2.26 ft.

Total Dynamic Head (+15%) 23.54 ft.

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