

PRESSURE DISTRIBUTION & MOUND DIMENSION DETAILS

CLIENT'S NAME: Hinsdale Lot 1 Mound
 DATE: 2/10/2017 PERFORMED BY: S. Revell LAG Project #: 14108

Design Flow Rate	490	GPD
Width of Distribution Stone Bed/Trench	10	FEET
Length of Distribution Stone Bed/Trench	50	FEET
Thickness of Sand Beneath Distribution Stone Bed/Trench	1	FEET
Thickness of Stone Beneath Laterals	6	INCHES
Soil Cover Thickness at Edge of Level Area	12	INCHES
Front Slope of Finished Mound	33	PERCENT
Side and Rear Slope of Finished Mound	33	PERCENT
Percolation Rate	20	MPI
Natural Ground Slope	8	PERCENT
Thickness of Sand on Upper Side of Level Area	1.67	FEET
Thickness of Sand on Lower Side of Level Area	2.63	FEET
Width of Level Area	12	FEET
Length of Level Area	52	FEET
Area of Distribution Stone Bed/Trench	500	SQUARE FT
Volume of Stone Required	12	CUBIC YARDS
Proposed Basal Area	1176	SQUARE FEET
Volume of Mound Sand Required	143.0	CUBIC YARDS
Number of Laterals	4	
Length of Each Lateral	22.5	FEET
Number of Orifices in the Manifold	0	
Number of Orifices in Each Lateral	5	
Distance Between Manifold and First Orifice	2.5	FEET
Distance Between Orifices (on center)	5	FEET
Distribution Area per Orifice	25.00	SQ. FT.
Design Pressure Head	3	FEET
Diameter of Orifices (enter as fraction)	0.188	INCHES
Elevation From Pump Intake to Laterals (0 if siphon)	24	FEET
Diameter of Force Main	2	INCHES
Length of Force Main	215	FEET
Length of Manifold to Lateral	0	FEET
Diameter of Manifold Pipe	2	INCH
Diameter of Lateral Pipe	2	INCH
Friction Loss in Force Main	0.90	FEET
Friction Loss in Manifold	0.00	FEET
Friction Loss in Section 1	0.00	FEET
Friction Loss in Entire Lateral	0.00	FEET
Discharge Rate at First Orifice	0.72	GPM
Discharge Rate at Last Orifice	0.72	GPM
Percent Difference in Flow Rate First to Last Orifice	0.03	PERCENT
Total Dynamic Head Loss	27.913	FEET
Total Distribution System Flow	14.35	GPM
Volume of Distribution System	14.69	GALLONS
Pump Capacity	14.35 GPM vs	27.913 FEET OF HEAD
Volume per Dose		125 GALLONS
On/Off Float Swing (1,000 gal. Tank)		6.0 INCHES

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DIMENSIONS OF MOUND SYSTEM

Dimensions of Mound Sand

4.1 feet from level area to uphill sand toe	5.8 ft corner of level area to upper toe corner
12 ft wide level area	5.1 ft to side toe from upper edge of level area
10 ft wide stone bed/trench	
50 ft long stone bed/trench	8.0 ft to side toe from lower edge of level area
52 ft long level area	
10.5 feet from level area to downhill sand toe	14.9 ft corner of level area to lower toe corner

Dimensions of Final Cover

6.5 feet from level area to uphill toe	9.2 ft corner of level area to upper fill toe
	8.1 ft to side toe from upper edge of level area
12 ft wide level area	
52 ft long level area	
	11.0 ft to side toe from lower edge of level area
	20.5 ft corner of level area to lower fill toe
14.5 feet from level area to downhill toe	

PLOW AREA LAYOUT MEASUREMENTS

Center of Bed/Trench to Downslope Toe	45.4 feet
End of Level Area @ Midpoint to Downslope Toe	25.1 feet
Center of Bed/Trench to Upslope Toe	34.8 feet
End of Level Area @ Midpoint to Upslope Toe	14.1 feet