WATERTREE LANDING LOT 80
APPLICANT AND DESIGN SPECIFICATIONS

Applicant:	Mid-Atlantic Custom Homes
Phone:	704-746-6497
Address:	PO Box 3792 Mooresville, NC 28117
County:	Iredell
Location:	Watertree lot 80
Application for:	4 Bedroom Single Family Residence
Gallons per day:	480
Linear feet:	400
Loading Rate (gpd/ft.2):	0.3
Trench Depth:	36 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply line Length/ft:	91
Supply Line Diameter:	2 in. SCH 40 PVC
Dosing volume:	182.84
Lateral line volume:	261.20
Supply Manifold:	4 in. SCH 80 PVC
Manifold Length:	4 ft. (minimum)
Manifold Volume:	N/A
Pressure Head:	2
Friction Head:	3.32
Elevation Head:	9.70
Friction factor:	2.37
TDH:	17.27
Pump Run:	8.50
Threaded Union:	In Tank
Gate Valves:	1 in Tank
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Design flow:	480
Trench Bottom:	1200
Number of fields	1
Supply line length	140
Draw down:	12.4
Comments:	Soil suitability was performed by Michael Athanas & Associates

*Pump tank draw down based on 21 gallons per inch. Draw down may vary depending on tank manufacturers.

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SYSTEM TYPE	**25% REDUCTION**
SYSTEM LTAR	**0.3 GPD/FTSQ**
SYSTEM LINE LENGTH	**400**
REPAIR TYPE	*LP PPBPS*
REPAIR LTAR	*0.3 GPD/FTSQ*
REPAIR LINE LENGTH	*353*

LINE #	FLAG COLOR	SHOT ELEVATION		LINE LENGTH
1	***RED***	***4.30***		***134***
2	***BLUE***	***5.10***		***133***
3	***ORANGE***	***6.00***		***133***
4	PINK	6.80		118
5	RED	7.60		112
6	BLUE	8.30		73
7	ORANGE	8.70		50
			Total	**753**
TBM		***1.20***		
HOUSE CORNER		***10.50***		
TANK		***9.20***		

System line#	Color	Hole Size	Flow/Tap
1	***RED***	SCH 40 1/2	**7.11**
2	***BLUE***	SCH 40 1/2	**7.11**
3	***ORANGE***	SCH 40 1/2	**7.11**

gal/min =	**21.33**
Des. Flow	**480 gpd/ft2**