Pump Design Sheet **For:** Michael Todd - 243 Liva Ln - CLT S14 Lot 130 **By:** Daniel McNeil

System Length (linear ft)	400		
# of Taps	5	Manifold Length (in)	36
Manifold Size (in)	4	Flow per Tap (gpm)	7.11
Tap Type (sch 40 or 80)	40	Total Flow (gpm)	35.56
Tap Size (in)	0.5	Friction Loss (ft)	2.57
Tap Length (in)	12	Total Dynamic Head (ft)	27.57
Supply Line Size (in)	2		
Supply Line Length (ft)	75		
Pressure Head (ft)	2		
Elevation Head (ft)	15		

When choosing a pump for this system, you will need a pump that can deliver:

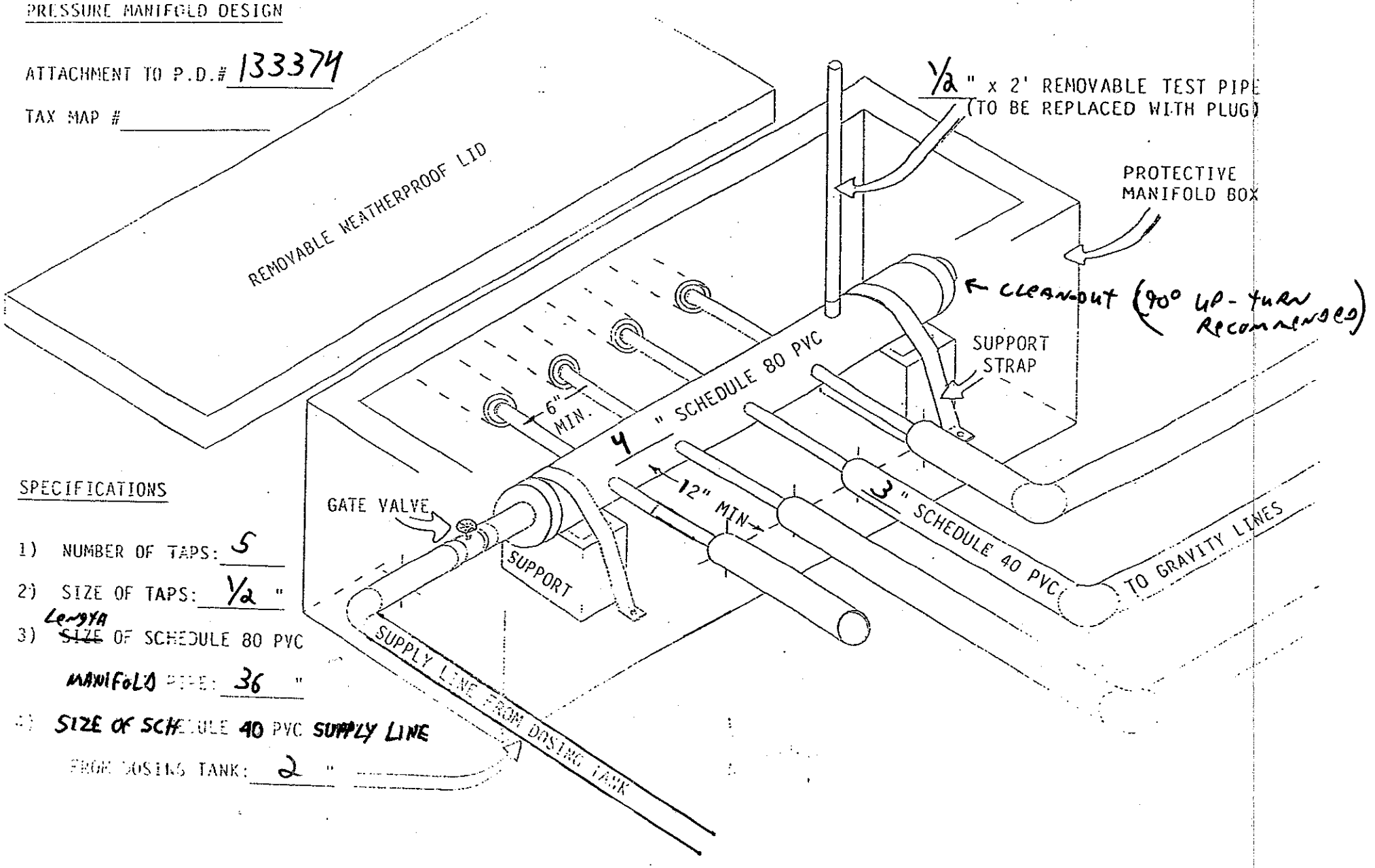
35.56 GPM against **27.57** FT of Total Dynamic Head

Dose Volume (gal)	195
Pump Run Time (min)	5.48
Tank Drawdown (in)	9.29

PRESSURE MANIFOLD DESIGN

ATTACHMENT TO P.D.# 133374

TAX MAP # _____



SPECIFICATIONS

1) NUMBER OF TAPS: 5

2) SIZE OF TAPS: ½ "

3) ~~SIZE~~ Length OF SCHEDULE 80 PVC MANIFOLD PIPE: 36 "

4) SIZE OF SCHEDULE 40 PVC SUPPLY LINE FROM DOSING TANK: 2 "

IREDELL COUNTY HEALTH DEPARTMENT

(SEPTIC TANK) IMPROVEMENTS PERMIT AND CERTIFICATE OF COMPLETION

(Ground Absorption Sewage Disposal System – G. S. Chapter 130-Article 13C)

OWNER OR CONTRACTOR C. M. Young DATE 6-25-25 PERMIT NO. 137

PHONE: Business _____ Home _____

LOCATION 150 W Lon 1303 T L on 1399 at end on Lot #

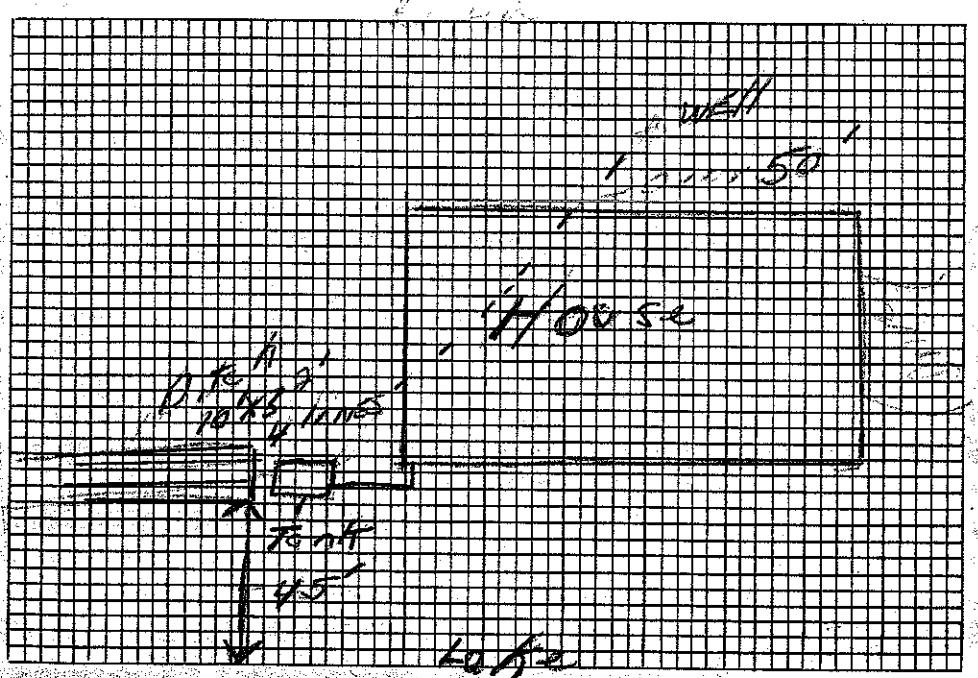
S. R. No. _____

SUBDIVISION NAME Lake Norman LOT NO. _____ SECTION OR BLOCK NO. _____

House (✓) Mobile Home ( ) Business ( ) Other _____

No. Bedrooms 3	No. Bathrooms 2			Character & Porosity of Soil	Sandy loam
Garbage Disposal Unit	Yes ( )	No (✓)		Percolation Rate	Not Taken
Auto. Dishwasher	Yes ( )	No (✓)		Topography	Rolling
Auto. Wash. Machine	Yes (✓)	No ( )		Depth to Water Table	4' to 5'
Site Suitable	Yes (✓)	No ( )		Rock or other impervious formations	None

Lot Area 1 acre



Plot of System

Size of Tank 1000 Gals.

Nitrification Field:

No. of Lines 4

Sq. Ft. 425 Linear Ft. 250

Depth of Stone in Lines 16"

Water Supply: Individual (✓)

Public ( )

Installed by C. M. Young

IMPROVEMENTS PERMIT BY _____

COMMENTS: _____

CERTIFICATE OF COMPLETION BY C. M. Young DATE 6-25-25

CONSTRUCTION MUST COMPLY WITH ALL OTHER APPLICABLE STATE AND LOCAL REGULATIONS

Health Dept. Copy: White Inspection Dept. Copy: Yellow Sanitarian's Copy: Pink Owner's Copy: Gold