]	Permit #:	
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES	ROY COOPER • KODY H. KINSLE MARK BENTON SUSAN KANSAC Division of Public	EY • Secretary • Deputy Secre GRA • Assistan Health	t Secretary for Pu	
	(a2) Construction Authors (a2) PERMIT FOR G.S. 1			
		0071 000(02	,	
County:				
PIN/Lot Identifier:				
Issued To:				
Property Location: Subdivision (if applicable)				Soction:
LSS Report Provided: Yes No	LOT #	D	лоск	Section
If yes, name and license number of LSS:				
New Expansion	System Relocation		Change of Use	······
Proposed Structure:			•	
Number of bedrooms: Number of Occupants: O				
		industrial pro		
Proposed Design Daily Flow: GPD Propo				
Proposed Wastewater System Type*:				
Proposed Wastewater System Type*:				
*Please include system classification for proposed wastewater sy				
Saprolite System (initial): Yes No Saprolite System	m (repair): 🗌 Yes 🗌 N	0		
Fill System (Initial): Yes No If yes, specify: New Fill System (repair): Yes No If yes, specify: New Usable Soil Depth (Initial): Usable Soil Depth	Existing (when adding n	nore than 6 inch		
Max. Trench Depth (Initial) [‡] : Max. Trench De	epth (Repair) [‡] :	[‡] Mea	sured on the down	hill side of the trench
Artificial Drainage Required: Yes No If yes, please speci	fy details:			
Type of Water Supply: Private well Public well Sha	ared well 🗌 Municipa	l Supply	Spring 🗌 Other	:
Drainfield location meets requirements of Rule .1945: Yes Permit valid for: Five years [site plan submitted pursuant to G	_	•		
Permit conditions:				
Licensed Soil Scientist Print Name:				
Licensed Soil Scientist Signature:			Date:	
The LSS evaluation is being submitted put		requirements o		
NC DEPARTMENT OF HEALTH AND				
	rks Road, Building 3, Rale			
MAILING ADDRESS: 1632 Ma		h, NC 27699-163	32	

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER



This Section for Local Health Department Use Only

Initial submittal received: ______ by _____

Date Initials

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

		ALL MAR	
Copies of this were sent to the LSS and the App			
	Date		
State Authorized Agent:		Date:	
Complete			
State Authorized Agent:		Date:	

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: _____

See attached site sketch



Permit #: _

Re-submittal of Improvement Permit

LHD USE ONLY: This IP resubmittal received:		by
	Date	

The following items are being resubmitted pursuant to G.S. 130A-335(a3) for issuance of the Improvement Permit:

I, _______hereby attest that the information required to be included with this re-submittal Licensed Soil Scientist (Print Name) is accurate and complete to the best of my knowledge and that the proposed Improvement Permit meets all applicable federal, State, and local laws, regulations, rules, and ordinances.

Signature of Licensed Soil Scientist

Date

The section below is for Local Health Department use after submittal of items noted as missing above.

LHD Follow-up Completeness Review of Improvement Permit

The review for completeness of this Improvement Permit re-submittal was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Date

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Applicant on ____

State Authorized Agent: _____

Complete

State Authorized Agent: _____

Date: _____

Date: _____



Permit #: ____

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County:
PIN/Lot Identifier:
Issued To:
Property Location:
AOWE/PE Plans/Evaluations Provided: Yes 🗌 No 🗌 If yes, name and license number of AOWE/PE:
Facility Type:
New Expansion Repair System Relocation Change of Use
Basement? Yes No Basement Fixtures? Yes No
Type of Wastewater System*(Initial)(Repair
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Design Daily Flow: GPD Wastewater Strength: 🗌 domestic 🔄 high strength 🗌 industrial process
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? 🗌 Yes 🗌 No (if yes, please provide engineering documentation)
Installation Requirements/Conditions
Septic Tank Size: gallons Total Trench/Bed Length: feet Trench/Bed Spacing: feet on center
Trench/Bed Width: inches LTAR: gpd/ft ²
Soil Cover: inches Slope Corrected Maximum Trench/Bed Depth [‡] : inches * <i>Measured on the downhill side of the trench</i>
Aggregate Depth:inches above pipeinches below pipeinches total
Pump Tank Size (if applicable): gallons Requires more than 1 pump? 🔲 Yes 📃 No
Pump Requirements:ft. TDH vs GPM Grease Trap Size (if applicable): gallons
Distribution Method: 🗌 Serial 🗌 D-Box or Parallel 🗌 Pressure Manifold(s) 🗌 LPP 🗌 Other:
Artificial Drainage Required: Yes 🗌 No 🗌 If yes, please specify details:
Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreement Required [.1937(h)]: Yes No
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: 🗌 Yes 🔲 No
Declaration of Restrictive Covenants: 🗌 Yes 🗌 No
Pre-Construction Conference Required: Yes 🗌 No 🗌
Conditions:
turun .
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference
into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.
AOWE/PE Print Name: Expiration Date:
AOWE/PE Signature: Date: Date:
This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch



Permit #:

This Section for Local Health Department Use Only

Initial submittal received: ______ by

Date Initials

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This

Construction Authorization is determined to be:

Incomplete (If box is checked, information in this section is real	quired.)		
The following items are missing:			
Copies of this were sent to the AOWE/PE and the Applicant on	Date	AV781	
State Authorized Agent:		Date:	
Complete		518	
State Authorized Agent:		Date of Issuance:	

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: _____

See attached site sketch



Permit #:

Re-submittal of Construction Authorization

	LHD USE ONLY: This CA resubmittal received:		by	_
		Date	Initials	
The following i	items are being resubmitted pursuant to G.S. 130A-33	5(a5) for issuance	of the Construction Author	ization:
	ST.	ATT	-12	
l,	hereby attest that	at the information	required to be included wit	h this re-submittal
	nsite Wastewater Evaluator (Print Name)			
	complete to the best of my knowledge and that the and local laws, regulations, rules, and ordinances.	proposed Construc	ction Authorization meets a	all applicable
	and local laws, regulations, rates, and orannances.			
Sianatu	re of Authorized On-Site Wastewater Evaluator	100	Date	
orginatur				
	The section below is for Local Health Department us	e after submittal of i	items noted as missing above	
		e ajter sasmittar oj i	icents noted as missing above.	
LHD Follow-u	up Completeness Review of Construction A	uthorization		
The review for	completeness of this Construction Authorization re-s	ubmittal was cond	luctod in accordance with (S 1204 225/25)
	on Authorization is determined to be:	Submittal was cond		1.3. 130A-333(a3).
Incomplete	(If box is checked, information in this section is requi	ired.)		
The following it	tems are missing:			
	JUL SE OLIA	M VIDEN	13	
Copies of this w	vere sent to the AOWE/PE and the Applicant on			
	,	Date		
State Authorize	ed Agent:		Date:	
Complete				
State Authorize	ed Agent:		Date:	

Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761 alexadams@bcsoil.com

March 18, 2024 Project #1623

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335 (a2), (a5), and (a6)"

"This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5)."

RE: Wellers Knoll Subdivision - Lot #56 – 66 Wild Turkey Way – Lillington, NC (Harnett County) for Davidson Homes (PIN# 0529-88-3092)

To whom it may concern:

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18E. From this evaluation, ASC is providing the attached 480 gallon/day septic design.

The suitable soils found on the subject property were relatively consistent in the initial and repair areas. The area designated for the initial/primary septic system (see attached septic plan) was found to contain soils with greater than 24 inches in depth before a restrictive horizon was encountered.

Please find the attached wastewater soil/site evaluation forms for specific soil properties found in the initial and repair areas as well as assigned soil long term acceptance rate (LTAR). Numerous soil borings were made throughout the property and representative soil profile descriptions for the primary septic field and repair area are provided. A location sketch for profile descriptions is also attached. The initial and primary septic fields were sized based on a flow rate of 480 gallons/day and utilizing Accepted Status. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the primary and repair (if needed) system on contour, see attached site plan for the primary system and repair

locations. No underground utilities, water lines, or sprinkler systems shall be placed into the initial or repair septic areas. Installation must meet all state and Harnett County regulations for septic system installation. The trenches must be installed in the same location as the site plan. If the installation is in question at the time of installation call me (Alex Adams) at 919-414-6761.

This report discusses the location of provisionally suitable soils identified on the property and does not guarantee the future function of any waste water disposal system installed.

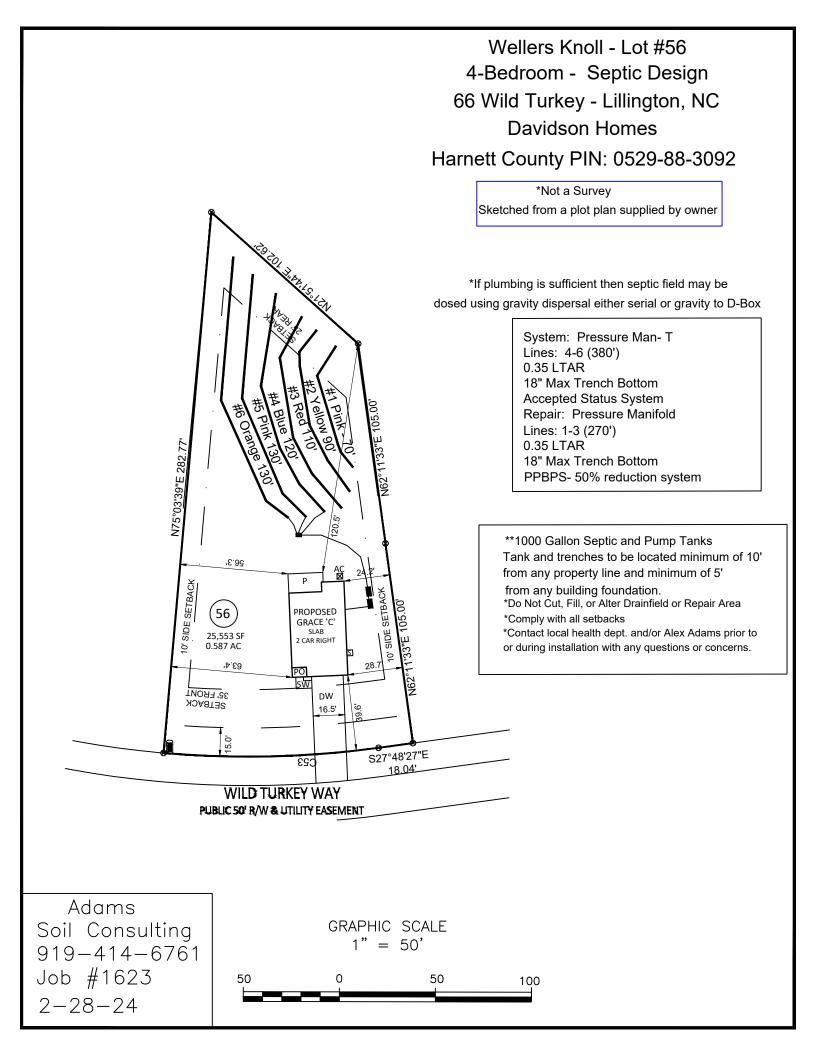
If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime.

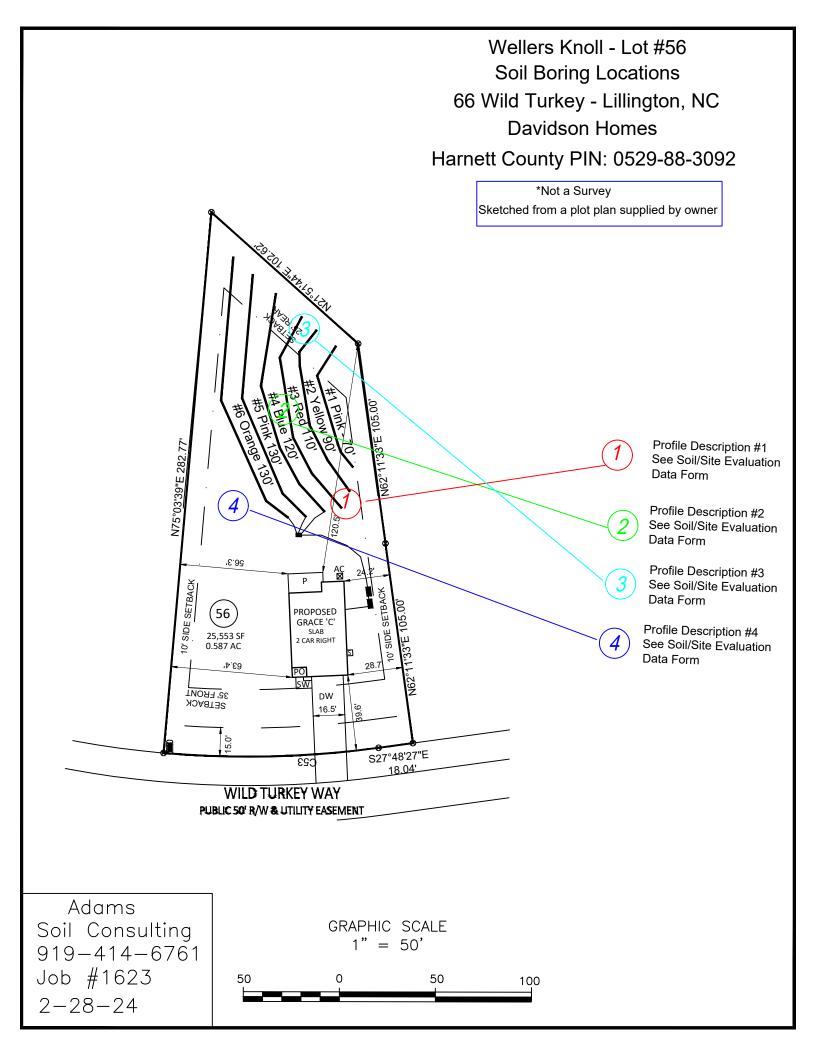
Sincerely,

Alex Adams NC Licensed Soil Scientist #1247 AOWE Certification: 10021E









SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM (Complete all fields in full)

OWNER: Davidson Homes ADDRESS: PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 480gpd LOCATION OF SITE: 66 Wild Turkey Way. Lillington NC 27546 WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring TYPE OF WASTEWATER: Sewage

P R O F I L	.1940 LANDSCAPE	HORIZON	SOIL MORPHOLOGY (.1941)			OTHER PROFILE FACTORS				
E #	E POSITION/	DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.19 CONSIST MINERA	ENCE/	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	Linear	0-10	GR/LS	VFR/SEX	P/NS	30"	N/A	N.O	N.O	PS/.35
1	Slope/2%	10-36	SBK/SCL	FI/SEXP	P/SS					
	Linear	0-10	GR/LS	VFR/SEX	P/NS	30"	N/A	N.O	N.O	PS/.35
2	Slope/2%	10-36	GR/SCL	FI/SEXP	P/NS					
	Linear	0-8	GR/LS	VFR/SEX	P/NS	30"	N/A	N.O	N.O	PS/.35
2	Slope/2%	^{ppe/2%} 8-32 GI		GR/SCL FI/SEXP/		'NS				
3										
4	Linear	0-10	GR/LS	VFR/SEX	P/NS	30"	N/A	N.O	N.O	PS/.35
	Slope/2%	10-32	GR/SCL	FI/SEXP	P/NS					
DESCRIPTION INITIAL SYSTEM REPAIR SYSTEM OTHER FACTORS (.1946):										
Available Space (.1945)SSSITE CLASSIFICATION (.1948): U/PS										
System Type(s) Type III G Type III B EVALUATED BY:A. Adams OTHER(S) PRESENT:				dams						

0.35

Site LTAR COMMENTS: 0.35

APPLICATION DATE: DATE EVALUATED: 3/18/24 PROPERTY SIZE: .69 Acres

RESIDENTIAL PRESSORE Mani-1								
	Davidson Homes							
Lot 56 Wellers Knoll								
# of BDR: 4	Daily Flow: <u>480</u>	gal/day L.T.A.R.: <u>0.3500</u> gal/d	day/sq.ft					
		ganady <u>200000</u> gano	ay/oqni					
Septic Tank: 1000	gals Pump Tanl	:: <u>1000</u> gals Sq. Foot:	1140 System Type: <u>Accepted</u>					
Septic Talk. <u>1000</u>	gais Fullp faile	. <u>1000</u> gais 34. Pool.	<u>Accepted</u>					
Number of Tono	2 Longth	of Tranchast 200 ft/Cas Tan Cha	rt for Deteile)					
Number of Taps:	<u>3</u> Length	of Trenches: <u>380</u> ft(See Tap Cha	it for Details)					
	10							
Depth of Trenches:	<u>18</u> in	Manifold Length: <u>36</u> in						
Manifold Diameter:	<u>4in sch 80pvc</u>	Tap Configuration: 6 in spacing	<u>1</u> side(s) of manifold					
Supply Line: length:	<u>50</u> ft	Diameter: <u>2</u> in so	ch 40pvc					
			•					
Friction Loss + Fitting L	_oss: 1.33	ft(supply line length + 70' for fittings in p	pump tank)					
	<u></u>							
Design Head:	<u>2</u> ft	Elevation Head: <u>6</u> ft						
Design nead.	<u>z</u> n							
Total Head: 9.33	ft	Pump to Deliver: 21.33 gals/	/min at <u>9.33</u> ft head					
Dosing Volume:	<u>173</u> gals,							
-								
Drawdown: 173	gals divided by	<u>21.4 gals/in = 8.1 inch</u>	es					
	_gaio arriada by	<u>2</u> galo <u>0.1</u> mon						

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

			٦	TAP CHAR	Т						
Benchmark	0	is = 100.00	set at				Design Head:	2			
Pump tank elev.		10	93.00	Pump elev.	88.00		Manifold elev.	93.00			
										# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
4	Blue	8.00	92.00	120	1/2in SCH 40	7.11	160.00	360	0.4444		
5	Pink	8.30	91.70	130	1/2in SCH 40	7.11	160.00	390	0.4103		
6	Orange	8.60	91.40	130	1/2in SCH 40	7.11	160.00	390	0.4103		
			Total Feet =		gal/min =	21.33		LTAR =	0.3500		
			Feet Required =	343	Velocity =	2.04		(Itar + 5%)	0.3675		
Total # of Panels (PPBPS)			Des. Flow	480			(Itar w/25% red)	0.4667		
% of Dose Vol.		70		Pump Run=	22.50			(Itar + 5%)	0.4900		
Dose Volume		173		Tank Gal/IN	21.4						
Dose Pump Time		8.11		Elev. Head	6						
Drawdown in Inche	es	8.1									
Comments:											

RESIDENTIAL PRESSURE Mani-T

