HTE#07-517897 RRR Harnett County Department of Public Hearth

Improvement Permit

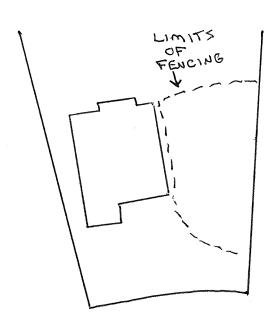
26721

A building permit cannot be issued with	
PROPERTY LOCA	TION: SHERMAN RIVES De
ISSUED TO: JOINN P. BENSON SUBDIVISION	
NEW REPAIR □ EXPANSION □	Site Improvements required prior to Construction Authorization Issuance:
Type of Structure: SFD (らいべつ)	INITIAL DRAIN FIELD AREA MUST BE
Proposed Wastewater System Type: Pune To 25% RESULTION	
Projected Daily Flow: 360 GPD	FENCED OFF TO PREVENT ANY CONSTRUCTO
Number of bedrooms: 3 Number of Occupants: 6 max	
Basement □Yes ⋈ No	TRAFFIC FROM DAMACING SITE, SEE IP
Pump Required:	
Type of Water Supply: Community Public Well Distance from well 19	
Permit conditions: This Pearing Bases On A Proposal	
Territ Conditions. 11113 (2015) DESDES ON 11 100POSAC	DUBMITTED WITH PRPLICATION No expiration
Part Mark	
	Johnst
Authorized State Agent:: Date:	10)28)) i SEE ATTACHED SITE SKETCH
The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.	. Inducer is responsible for checking with appropriate governing bodies in meeting their requirements. This affected by a change in ownership of the site. This permit is subject to compliance with the provisions of
Construction Au	thorization
(Required for Build	ing Permit)
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958 and .1959 at	
with the attached system layout.	·
ISSUED TO: JOHN R. BENSON PROPERTY SUBDIVISION SUBDIVI	LOCATION: SHERMAN TIMES OR
	IN SHERMAN PINES INT # 20
Facility Type: SRO (54 × 70) X New Expans	ion Donnie
	oioii 🗀 kepair
Basement? Yes No Basement Fixtures? Yes No) M
Type of Wastewater System** Pume To 25% REDUCTION W	QESSURE (IRN) FO2 (Initial) Wastewater Flow: 360 GPD
(See note below, if applicable □)	
AT GRADE LPP	(Renair)
Installation Requirements/Conditions Number of trenches	· · ·
Septic Tank Size gallons Exact length of each trench	— for To I f
Septic tank size ganons = exact length of each trench	feet Trench Spacing: Feet on Center
Pump Tank Size gallons Trenches shall be installed on co	
SEE ATACHED Maximum Trench Depth of:	inches (Maximum soil cover shall not exceed
DESIGN FOR ATIONS (Trench bottoms shall be level to in all directions)	o +/-1/4" 36" above the trench bottom)
RLL SPECIFICATIONS in all directions)	
Pump Requirements:ft. TDH vs GPM	
i unip negunenicitsit. IDII 45. Q[1]	INCHES DEIOW DIDE
	inches below pipe
	Aggregate Denth: inches above nine
	Aggregate Denth: inches above nine
	Aggregate Depth: inches above pipe
Conditions: KEEP DORIN FIELD AREA FENCED	Aggregate Depth: inches above pipe inches total
Conditions: KEEP DOWN FELO ROCK FENCED WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF S	Aggregate Depth: inches above pipe inches total
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Harnett County Department of Public Health Site Sketch

	PROPERTY LOCATON: SHERMAN PINES Pe	
ISSUED TO: JOHN P. BENSON	SUBDIVISION SHERMAN PINES	LOT # 20
Authorized State Agent:	RENS (OLIVER TOLKSOOF) Date: 10 (28/1)	

THIS DRAWING IS FOR THE IP ONLY. THIS IS NOT A CONSTRUCTION DRAWING.





700 OLD OAKS LANE PITTSBORO NC 27312

0.4

gal/sq.ft/day

PHONE (919) 545-0785 www.februaryassociates.com

At Grade Pressure Manifold

prepared by Kathy Morris

revised 10-24-11

PROJECT DESCRIPTION: Owner wishes to change house footprint & location from that permitted in 2007 (24346). Additional soils area evaluated by Mike Eaker has at least 21" soil for at-grade LPP repair.

Date: 10/18/2011 County: Harnett

P.I.N. #: Permit # John Benson Sr. Name: Oliver Tolksdorf 14523 Mirasol Manor Ct Tampa FL 33626 Property address: Lot#: 20 Subdiv: **Sherman Pines** contact John Benson Jr. Phone: 919-793-8074 LOCKABLE RISERS RECOMMENDED

TANKAGE

SEPTIC TANK

# BEDROOMS	3			with filter				
BASEMENT	no	slab foundat	ion	PUMP TANK	1000	gallons		
REPAIR: 6	at grade L	.PP @ 0.2 gal/	sf/day		21	gallons/inch		
DIMENSIONS				TRENCHES				
SQ. FT	900			WIDTH	36	inches		
LINEAR FT	225	at grade,	25% reduction	DEPTH	12	with 6" of a	pproved cover	mat'i
	240	(actual)		TRENCH FILL	accepted	media: cham	bers	
TAP SIZE VARIE	S WITH	TRENCH LEN	GTH.	STONE DEPTH	n/a	inches		
SEE TAP CHART	Г.			STONE SIZE	n/a	or larger		
MANIFOLD & SU	PPLY			PUMP CRITERIA		_		
DIAMETER	4	inches	Sch. 80	ELEVATION HEAD		6.90	ft	
LENGTH	42	inches	(minimum)	DESIGN HEAD		2.00	ft	
# OF TAPS	4			FRICTION & FITTIN	GS LOSS	4.28	ft	_
				тоти	AL	13.18	ft	l
				FLOW RATE		33.60	gpm	
SUPPLY LINE	125	feet		DOSING VOLUME		116	gallons	•
DIAMETER	2	inches	2.067	DRAWDOWN		5.5	inches	

PUMP AND CONTROLS

DESIGN PARAMETERS

LTAR

Zoeller N 151 **PUMP** 1 phase, 115 volts, 6.0 amps PANEL: Rhombus "Wake County"

simplex

with event counter, elapsed time meter, NEMA 4X box,

1000

gallons

separate alarm circuit

other equipment that meets or exceeds the specifications may be substituted. Contact designer if questions.

The plans & specs for this Onsite Sewage Treatment & Disposal System have been prepared according to criteria in North Carolina's rules and regulations covering onsite systems, to additional county standards (if applicable), and to generally-accepted design principles. February Associates, Inc. makes no representation regarding soils conditions on this property. LTAR's, trench dimensions, and wasteloads are determined by the county Health Department (or other soil science professionals) and are included as conditions of the permit. February Associates, Inc. accepts no responsibility for changes in these plans & specs unless we specifically authorize such changes in advance. If changes in specifications or locations of components are needed, please contact us for assistance in making such alterations before the component is installed.

Note: February Associates, Inc. accepts no responsibility for handwritten alterations made to these plans by others.

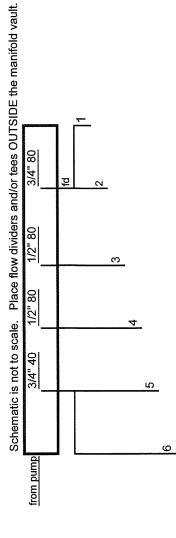
Materials

Lot 20 Sherman Pines

This summary of materials includes major components of the system, and is meant to assist the installer in preparing an estimate. It does not include consumable supplies (glue, etc.), exaxt numbers of fittings, or materials incidental to standard installation. It does not include any specified drainage - curtain drains, etc.

septic tank	1000	gallon			
effluent filter	yes				
pump tank	1000	gallon			
				W 0.0	
<u>pump</u>	one	Zoeller N 151	•	volts, 6.0 amps	
panel	simplex	Rhombus	"Wake Count		
<u>floats</u>	three	with panel	mounted on flo	at tree	
check valves	one	2" diameter	1 in PT		
gate valves	two	2" diameter	1 in PT 1 a	at manifold	
threaded unions	one	2" diameter	1 in PT		
supply line	125	feet	2" Sch. 40	LENGTH IS APPROXIMATE	
manifolds	42	inch (minimum)	4" diam. Sch.	80, in approved vault	
	1/2" Sch 40	•	3/4" Sch 40:	1 1" Sch 40:	
4				1 1" Sch 40:	
<u>4</u>				1 1" Sch 40:	
4					
flow dividers	1/2" Sch 80				
flow dividers tees or y's	1/2" Sch 80	:2	_ 3/4" Sch 80:		
flow dividers	two none	: 2	3/4" Sch 80: e manifold vault,	1 1" Sch 80:	
flow dividers tees or y's inspection ports	two none	If installed outsid	3/4" Sch 80: e manifold vault,	1 1" Sch 80:	
flow dividers tees or y's	two none	: 2	3/4" Sch 80: e manifold vault,	1 1" Sch 80:	
flow dividers tees or y's inspection ports	two none	If installed outsid	3/4" Sch 80: e manifold vault,	1 1" Sch 80:	
flow dividers tees or y's inspection ports feeder pipes	two none 4	If installed outsid in each feeder pi	3/4" Sch 80: e manifold vault,	1 1" Sch 80:	
flow dividers tees or y's inspection ports feeder pipes	two none 4 as needed 240 couplings,	If installed outsid in each feeder pi 3" Sch. 40 accepted tees, elbows, etc.	as needed to co	1 1" Sch 80:	

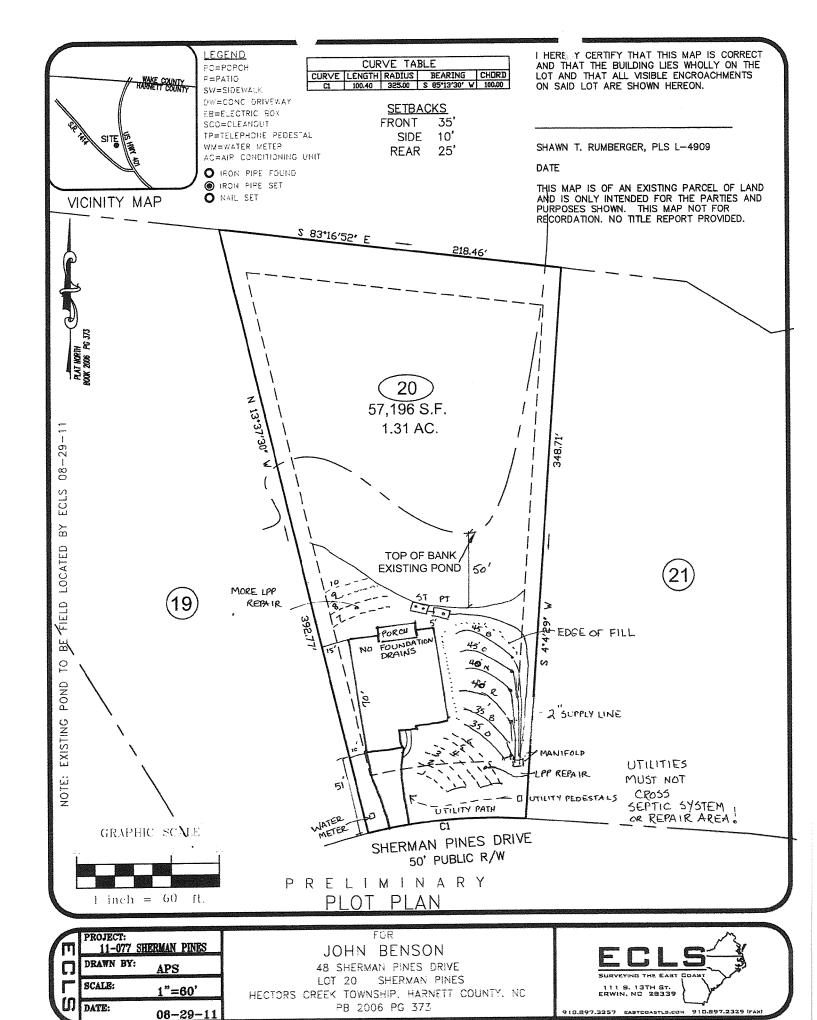
			TAP (HART - I	TAP CHART - INITIAL SYSTEM	YSTEM	Lot	20	Sherman Pines	es	
	Bench Mark	5.10	is = 100.00	set at	pink (top	pink (top of repair, see site plan)	te plan)		Design Head:	2.00	
	line	color	rod read	Elevation	available	pesn	tap size	flow/tap	gal/day	trench area	LINE LTAR
σ		orange	6.4	98.70	35	35	3/4" 80 w/ fd	5.05	54.11	105	0.515
J	2	plue	9.9	98.50	35	35	above	5.05	54.11	105	0.515
Ç	3	red	6.7	98.40	40	40	1/2" 80	5.50	58.93	120	0.491
0	4	neon	7.0	98.10	45	40	1/2" 80	5.50	58.93	120	0.491
	5	orange	7.1	98.00	45	45	3/4" 40 w/ fd	6.25	96.99	135	0.496
epithing.	9	ənlq	7.5	97.60	45	45	above	6.25	96.99	135	0.496
				total	feet =	240	GPM=	33.60		LTAR =	0.400
				minimum:	225		antisiphon	0.00		ltar + 5%=	0.420
	ELEVATIONS:	pump tank	k 97.30			TOTAL FL	TOTAL FLOW GPM	33.60	REDI	REDUCTION LTAR	0.533
		dund	p 92.30							(Itar + 5%)	0.560
		manifold	d 99.20								
		other	<u>.</u>	(such as high	est point on su	(such as highest point on supply line, if between pump tank and field)	een pump tan	k and field)			
	% PIPE VOLUME	Ш	74.04%			DESIGN FLOW	360	pdß			
	DOSE VOLUME	,	116	gal	₫.	PUMP RUN TIME	10.71	min/day			
	DOSE PUMP TIME	ME	3.44	min/dose	PUM	PUMP TANK GAL/IN	21	gal/inch			
	DRAWDOWN		5.50	.⊑	ELE	ELEVATION HEAD	6.90	feet			
	SUPPLY LINE LENGTH	ENGTH	125	ff	PUM	PUMPING UP HILL?	>				
	SUPPLY LINE VELOCITY	/ELOCITY	3.21								



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sq. ff. lin ff	:	inst. flow rate	0.100	0.096	0.107	0.099	0.091	0.099	0.079	0.070	0.050	
1800	8	flow/lat 2.85	3.11	4.01	4.48	4.17	3.84	3.66	2.92	2.44	1.31	29.05
		1st/last 4.00	3.50	5.00	00.9	3.00	5.00	6.50	6.50	5.00	7.00	
gpd I TAR		# holes	6	6	11	10	6	6	7	9	က	total
360	1	spacing 3.00	3.00	4.00	3.00	4.00	4.00	3.00	4.00	2.00	9.00	
		flow/hote 0.41	0.35	0.45	0.41	0.42	0.43	0.41	0.42	0.41	0.44	
		hole size 5/32	9/64	5/32	5/32	5/32	5/32	5/32	5/32	5/32	5/32	
		length 26	31	42	42	42	42	37	37	35	26	360
L		head 2.00	2.20	2.40	2.00	2.10	2.20	2.00	2.10	2.00	2.30	
LPP repair	top line	elev. dif.	-0.20	-0.40	00.0	-0.10	-0.20	00.0	-0.10	-0.20	-0.30	total
	set at	elev. 100.00	99.80	99.60	99.40	99.30	99.10	97.40	97.30	97.20	97.10	
Pines	=100.00	rod read	5.3	5.5	5.7	5.8	0.9	7:7	7.8	7.9	8.0	
Sherman Pines	5.1	color	plue	orange	red	plue	red	enla	orange	enla	orange	
Lot 20	Bench Mark	line	2	3	4	5	9	7	8	6	10	



7/7