25826

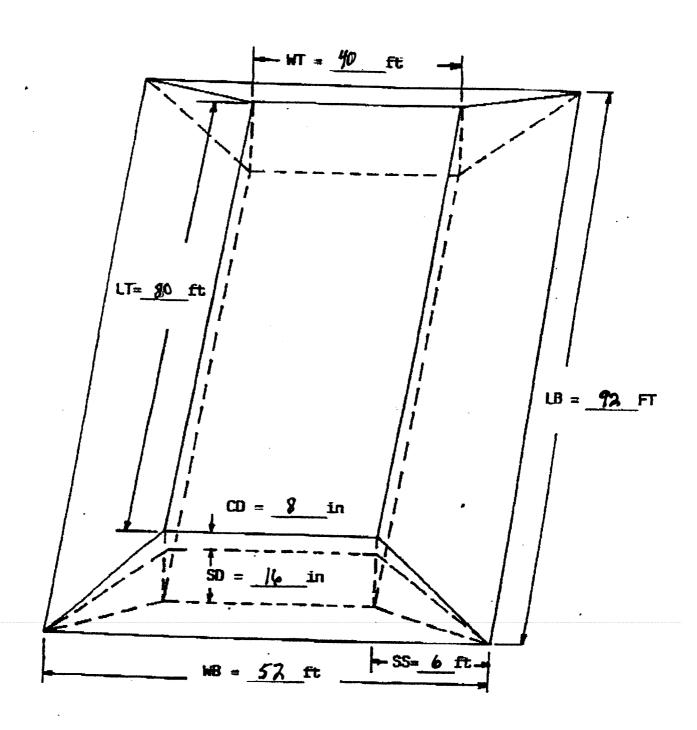
HTE# 09-5-23347R

Harnett County Department of Public Health

Improvement Permit

A building permit cann	ot be issued wit	th only an Improvem	ept Permit	
155UED TO: New Horizons Builders	PROPERTY LOCA	ITION: Brink		
NEW REPAIR FXPANSION F	_ SABDIAIZION		Johnson	LOT #
NEW ✓ REPAIR ☐ EXPANSION ☐ Type of Structure:		Site Improvements	required prior to Construction	Authorization Issuance:
Proposed Westerwater Court Town Cold Co. Co.	~			
Proposed Wastewater System Type: Fill System	-			
Projected Daily Flow: 240 GPD Number of bedrooms: 2 Number of Occupants: 4				
	max			
Basement □Yes □ No □ May be required based on final to				
	cation and eleva	itions of facilities		•
Type of Water Supply: Community Public Well Distance Permit conditions: Taifal the pair Drain field	ce from well	feet feet	/ Permit valid t	for: 🛮 Five years
All construction traffic most e	1 0.760	MUST	be tenecal.	No expiration
Brinkly Rd.	no pr	al with I	no corement	tram
Authorized State Agent: Sugar Mysic REHS	n .	2/1/1/	10/0	
The issuance of this permit by the health Department in no way guarantees the issuance of other site is subject to report in the site plan plat or the intended was cleared. The large plan plat or the intended was cleared.	Date:	2/24/2	SE SE	EE ATTACHED SITE SKETCH
site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement P	permits. The permit Permit shall not be	holder is responsible for	checking with appropriate governing b	odies in meeting their requirements. This
the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.	conne sitan not be a	anected by a change in o	whership of the site. This permit is suf	oject to compliance with the provisions of
<u>Constru</u>	uction Au	thorization		
(Requ	uired for Buildi	ng Permit)		
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, . with the attached system layout.	1958. and .1959 ar	e incorporated by referen	ces into this permit and shall be met.	Systems shall be installed in accordance
ISSUED TO: New Horizons Builder	PROPERTY	LOCATION: BC	Johnson	
	CHROINICIO	N Herbert	Talya.	LOT # A
Facility Type: SFD New	☐ Expansi	ion 🗆 Repai	D alved ast	LUI # <u></u>
Daniel D. V. C.		ion 🗌 Repai	r	
				00/-
Type of Wastewater System** (See note below, if applicable [])			(Initial) Wastewater F	flow: <u>XYO</u> GPD
Fill system		_(Repair)		
Installation Requirements/Conditions Number of trenche	es			
Septic Tank Size gallons Exact length of ea	ich trench	feet	Trench Spacing:	Feet on Contar
Pump Tank Size gallons Trenches shall be	installed on co		Soil Cover:	
			(Maximum soil cover s	
(Trench bottoms sh	hall he level to	+/-1/A"		
in all directions)		• /-1/4	36" above the trench	Dottom)
Pump Requirements:ft. TDH vs GPM				
				inches below pipe
Conditions Para I have to	100	0 0	Aggregate Depth:	inches above pipe
Conditions: Permit based on 50:1 consultan	-L) b/20 b	oral De	e attachemot	inches total
for system special design				
**If applicable: I understand the system type specified is different from the	e type specified	on the application	n. I accept the specifications	of this permit
	,, ,	,,	7	on perme
Owner/Legal Representative Signature:			Date:	
his Construction Authorization is subject to revocation if the site plan, plat, or the intended use cha	inges. The Constructi	on Authorization shall not	he transferred when there is a charge	A Company of the Comp
onstruction Authorization is subject to compliance with the provisions of the Laws and Rules for Sew	vage Treatment and	Disnosal and to the condi		SEE ATTACHED SITE SKETCH
	o and	- p and to the condi	one or any permit.	JEE MITACHED SHE SKEICH
Authorized State Agent: Suna Mywing La	2111	_	2/21/200	
	: 心	Date:	2/24/2016	
Construc	ction Authoriz	ation Expiration	Date: 2 / 2 4/ 2 915	

DIMENSIONS OF FILL SYSTEM



DEFINITIONS

WT - width of top LT - length of top WB - width of bottom LB - length of bottom

SS - side slope SD - sand depth CD - cover depth

Guideline For Design and Installation of Fill Systems with Conventional Trenches

I. Treuch and Fill Specifications

I or	I	- Soil Texture Group	92 ft Length of Fill
	gpd/sq.	ft Acceptance Rate	52 ft Width of Fill
240	gpd	- Sewage Flow	4,784 sq. ft Total Fill Area
890	sq. ft	- Trench Bottom	in Depth of Sand
3	ft.	- Trench Width	178 cu. yd Volume of Sand
280	<u>n</u>	- Total Trench Length	in Depth of Topsoil
4		- Number of Trenches	293 cu. yd Volume of Topsoil
70	ft.	- Length of each Trench	

II. Site Preparation

- Place flags at the 4 corners of the area to be filled designated on the improvement permit.
 Failure to place fill in the permitted area may result in the fill having to be moved or the permit revoked.
- Do not work when the site is wet. Working on soil when wet can destroy soil structure making the site unsuitable for a Construction Authorization.
- Remove all above ground vegetation and root mat from area to be filled without removing topsoil. Removal of soil can result in revocation of the permit.
- Disk the area to be filled to a depth of 6 inches to break up root mat.

III. Placement Of Fill

- Add 3 to 4 inches of approved sand fill to area and disk again to thoroughly mix the original soil and the fill. Approved sand fill is a sand or loamy sand.
- Add more sand fill to achieve a uniform height of SD (see diagram) in the middle of the fill area.
- The fill shall be tapered from the top edge of the fill to the ground surface 2 feet from the boundary of the fill area. The top edge of fill is located 5 feet from the proposed trenches.

- 4. Six (6) inches of finer textured fill shall be placed over the sand fill and extend to the boundary of the fill area. Finer texture is necessary to establish a vegetative cover which will prevent erosion of the fill. Fill used for cover shall be a sandy loam, loam, silt loam or sand clay loam texture. See CD dimension of diagram. Side slope shall be 1 to 4 except for site with Soil Texture Group 1 which can have a side slope of 1 to 3.
- Contact Health Department for inspection of fill before constructing trenches. A
 Construction Authorization must be obtained before proceeding.

IV. Trench Construction

- 1. The outside edge of any trench shall be 5 feet from the top of the side slope of the fill.
- 2. This system is designed with 4 trenches which are 70 ft. long and 3 ft. wide. Trenches must have a spacing of 9 ft. on centers.
- 3. Trench bottoms shall be no deeper than 18 inches below finished grade of the fill.
- Trench bottoms shall be constructed level.
- Distribution boxes shall be located 5 feet from the top edge of the fill.
- 6. Call the Health Department for inspection after the trenches are finished.

V. Landscaping

- The fill must be shaped to shed surface water and shall be stabilized with grass or other suitable cover to prevent erosion.
- Vegetation must be maintained after established. Grass must be mowed.
- Additional fill beyond what has already been specified may be necessary to cover and landscape around the septic tank.
- Call the Health Department for inspection after landscaping is complete. The Operation Permit allowing use of the system is issued at this time:

Calculation of Fill Volume

Total volume of fill (TVF)

$$TVF = [(LT + LB)/2 \times (WT + WB)/2] \times TFD$$

(DIVIDE BY 27 CU. FT. TO OBTAIN CU. YDS.)

=293 CU. YDS.

Total volume of sand (TVS)

$$TVS = [(LT + LB - 4)/2 \times (WT + WB - 4)/2] \times SD$$

(DIVIDE BY 27 CU. FT. TO OBTAIN CU. YDS.)

= 199 CU. YDS.

Total volume of cover (TVC)

TVC - TVF - TVS

= <u>213</u> CU. YD. - <u>118</u> CU. YD.

= 115 CU. YD.

Key to abreviations:

LT = length of top

LB = length of bottom

WT = width of top

WB = width of bottom

TFD = total fill depth

= SD + CD

SD = sand depth

CD = cover depth

Sheet1

Brinkley Road Lot System Tap Chart

			- ,						
Bench Mark Pump tank elev.		is = 100.00	Location of	ВМ	94.00			Elevation Head	7.00 101.00
		1	99.00	Pump elev.			Manifold el	lev.	
line	color	rod read	Elevation	le ngth	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	NF	0.00	100.00	70	1/2in SCH 40	7.11	60.00	210	0.2857
2	NF	0.00	100.00	70	1/2in SCH 40	7.11	60.00	210	0.2857
3	NF	0	100.00	70	1/2in SCH 40	7.11	60.00	210	0.2857
4	NF	0.00	100.00	70 ,	1/2in SCH 40	7.11	60.00	210	0.2857
		total	feet =	280	gal/min =	28.44		LTAR =	0.3000
								LTAR + %5	0.3150
% of Dose Vo	4.	80		Des. Flow	240			(Itar W/ INOV)	0.4000
Dose Volume	!	145.60		Pump Run≃	8.44			(Itar W/ INOV + 5%	0.4200
Dose Pump T	'ime	5.12		Tank Gal/IN	21			•	
Drawdown in	Inches	6.93							

⁴ lines are to be installed in approved fill material (mound system).

