

## Harnett County Department of Public Health Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: GAP Properties LLC PROPERTY LOCATION: 219 Jarco Drive  
 SUBDIVISION Tri-South Ind Park LOT # 10  
 NEW  REPAIR  EXPANSION   
 Type of Structure: Office/Truck Repair 8238 ft2 Site Improvements required prior to Construction Authorization Issuance:  
 Proposed Wastewater System Type: Pump to Conventional  
 Projected Daily Flow: 400 GPD  
 Number of bedrooms: \_\_\_\_\_ Number of Occupants: 16 max  
 Basement  Yes  No  
 Pump Required:  Yes  No  May be required based on final location and elevations of facilities  
 Type of Water Supply:  Community  Public  Well Distance from well \_\_\_\_\_ feet Permit valid for:  Five years  
 Permit conditions:  No expiration

Authorized State Agent: [Signature] Date: 7/5/2019 SEE ATTACHED SITE SKETCH  
 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 site 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 conditions of this permit.

### Construction Authorization (Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: GAP Properties LLC PROPERTY LOCATION: 219 Jarco Drive  
 SUBDIVISION Tri-South Ind Park LOT # 10  
 Facility Type: Office/Truck Repair  New  Expansion  Repair  
 Basement?  Yes  No Basement Fixtures?  Yes  No  
 Type of Wastewater System\*\* Pump to Conventional (Initial) Wastewater Flow: 400 GPD  
 (See note below, if applicable   
Pump to Conventional (Repair)

<u>Installation Requirements/Conditions</u>		Number of trenches <u>5</u>
Septic Tank Size <u>1000</u> gallons	Exact length of each trench <u>Various</u> feet	Trench Spacing: <u>9</u> Feet on Center
Pump Tank Size <u>1000</u> gallons	Trenches shall be installed on contour at a Maximum Trench Depth of: <u>18</u> inches (Trench bottoms shall be level to +/-1/4" in all directions)	Soil Cover: <u>6</u> inches (Maximum soil cover shall not exceed 36" above the trench bottom)

Pump Requirements: \_\_\_\_\_ ft. TDH vs. \_\_\_\_\_ GPM \_\_\_\_\_ inches below pipe  
 Aggregate Depth: \_\_\_\_\_ inches above pipe \_\_\_\_\_ inches total  
 Conditions: See attached desing for all system specifications. Pressure manifold required.

**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.  
 NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

\*\*If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.

Owner/Legal Representative Signature: \_\_\_\_\_ Date: \_\_\_\_\_

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is 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. SEE ATTACHED SITE SKETCH

Authorized State Agent: [Signature] Date: 7/5/2019  
 Construction Authorization Expiration Date: 7/5/2024

HTE# BCOM1904-0002

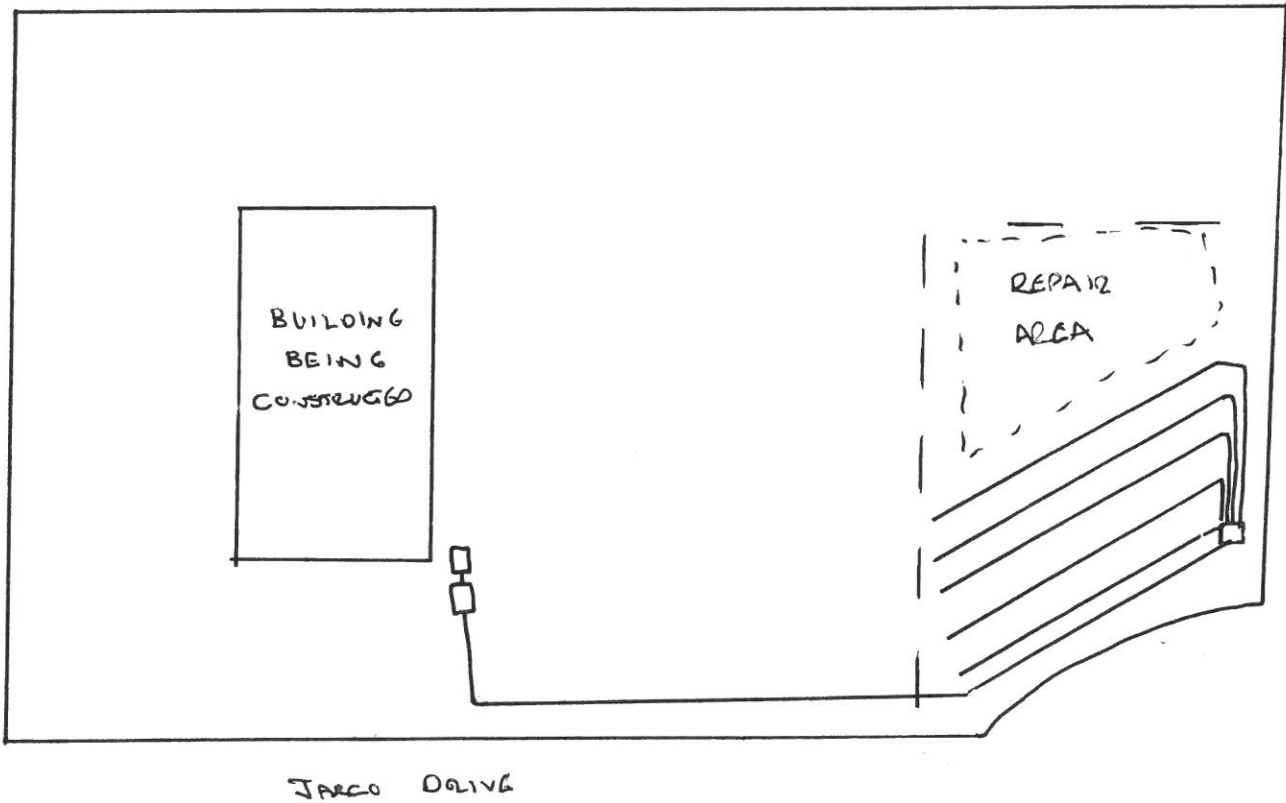
Permit # \_\_\_\_\_

# Harnett County Department of Public Health Site Sketch

ISSUED TO: GAP ~~PROGRESSIVES~~ LLC PROPERTY LOCATOR: 219 Jarco Dr.  
SUBDIVISION \_\_\_\_\_ LOT # \_\_\_\_\_

Authorized State Agent: ~~RENS (OLIVER TOLKSDORF)~~ Date: 7/5/19

- \* SEE ATTACHED DESIGN FOR COMPONENT SPECIFICATIONS
- \* IF SUPPLY LINE IS SUBJECT TO VEHICULAR TRAFFIC APPROPRIATE REGULATIONS MUST BE FOLLOWED
- \* TRAFFIC RATED TANKS MUST BE USED IF SUBJECT TO VEHICULAR TRAFFIC
- \* CALL WITH ANY QUESTIONS PRIOR TO INSTALLATION



THIS DRAWING IS FOR ILLUSTRATING PURPOSES ONLY  
SYSTEM INSTALLATION MUST MEET ALL PERTINENT LAWS, RULES, AND REGULATIONS



Septic System Design For G & D Hauling  
 Lot 10 Tri South Industrial Park: NC PIN 0654-78-1063  
 8 April 2019

Figure 2. Septic System Layout



Scale 1 in = 50 ft



Distances are paced and approximate



**Initial System**

Pressure manifold to 450 ft (X 3ft)  
 Conventional drainlines (Lines 1-5)  
 Installed on contour at 18 inches  
 LTAR 0.3 gal/day/sqft

**Repair System**

Pressure manifold to 450 ft (X 3ft)  
 Conventional drainlines (Lines 6-10)  
 Installed on contour at 18 inches  
 LTAR 0.3 gal/day/sqft

Design Flow (gal/day) = 400  
 Lines flagged at site on 9-ft centers

Line #	Color	Relative Elevation (ft)	Drainline Length (ft)
1	W	100.19	70
2	B	100.13	95
3	R	100.03	95
4	W	99.96	95
5	Y	99.84	95
6	B	99.70	95
7	W	99.43	95
8	Y	99.30	95
9	B	98.84	95
10	W	98.51	70
<b>Benchmark</b>		<b>100.00</b>	

B.M.E. @ EIP

Scale 1 in = 50 ft



Distances are paced and approximate

Septic System Design For G & D Hauling  
 Lot 10 Tri South Industrial Park: NC PIN 0654-78-1063  
 8 April 2019

Pressure Manifold Design Criteria

**Initial System**

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
1	W	100.19	70	1/2"sch 80	5.48	0.923	0.308
2	B	100.13	95	1/2"sch 40	7.11	0.883	0.294
3	R	100.03	95	1/2"sch 40	7.11	0.883	0.294
4	W	99.96	95	1/2"sch 40	7.11	0.883	0.294
5	Y	99.84	95	1/2"sch 40	7.11	0.883	0.294

Total Drainline= 450 Total Flow= 33.92  
 Pressure Head (ft)= 2 Target LTAR (gpd/sf)= 0.3 LTAR + 5% 0.315  
 Daily Flow= 400 Total Flow (gpm)= 33.92 Daily PRT(min)= 11.79  
 Dose Vol= 220.39 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 6.50

**Repair System**

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
6	B	99.70	95	1/2"sch 40	7.11	0.883	0.294
7	W	99.43	95	1/2"sch 40	7.11	0.883	0.294
8	Y	99.30	95	1/2"sch 40	7.11	0.883	0.294
9	B	98.84	95	1/2"sch 40	7.11	0.883	0.294
10	W	98.51	70	1/2"sch 80	5.48	0.923	0.308

Total Drainline= 450 Total Flow= 33.92  
 Pressure Head (ft)= 2 Target LTAR\* (gpd/sf)= 0.3 LTAR + 5% 0.315  
 Daily Flow= 400 Total Flow (gpm)= 33.92 Daily PRT(min)= 11.79  
 Dose Vol= 220.39 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 6.50