ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 x3456 · Mooresville Office (704) 660-3625

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PERMIT # OSWP-2024-60434

PIN # 3784-72-7634

APPLICANT/OWNER: CHIRAG PATEL

APPLICANT ADDRESS: 2174 ISLAND FORD ROAD, STATESVILLE, N.C. 28625

SITE ADDRESS: 2174 ISLAND FORD ROAD, STATESVILLE, N.C. 28625

PHONE: 704-380-4467

ALT. PHONE 706-360-0639

SITE DIRECTIONS: (W) ON 40, (L) ON SHARON SCHOOL, LOT ON (R) @ ISLAND FORD INTERSECTION

SAP CONTROLLED: YES NO EXT

SUBDIVISION: —

SECTION: —

LOT #: —

LOT AREA: 0.98 AC

DESIGN FLOW: EXT

L.T.A.R.(Initial): EXT

L.T.A.R (Repair): EXT

Septic Tank	1000 (gal)	STB	Norweco	Date			
GREASE TRAP	1000 (gal)	PT	Norweco	Date			
Pump Make	—	Model	—	Serial #	—		
# Nitrification Fields	EXT	# Lines	EXT	Linear Ft	EXT		
Trench Width	EXT	*Max. Trench Depth(Initial)	EXT	*Max. Trench Depth(Repair)	EXT	Gravel Depth	EXT

* Measured on the downhill side of the trench

Effluent Standard: DSE [x] HSE [ ] TS-I [ ] TS-II [ ] RCW [ ] NSF/ANSI 40

Usable Depth to LC (Initial): EXT

Usable Depth to LC (Repair): EXT

[ ] New System [x] Repair [ ] Expansion System Type: I (II) III IV V VI

System Description: EXISTING - CONVENTIONAL

Repair System Description: TANK REPLACEMENT

Maintenance Agreement Required: [ ] YES [x] NO

[x] GRAVITY [ ] PRESSURE

[ ] Residence No. Bedrooms —

[x] Business No. Persons —

[ ] Other No. Employees EXT

[x] Stab [ ] Crawl Space

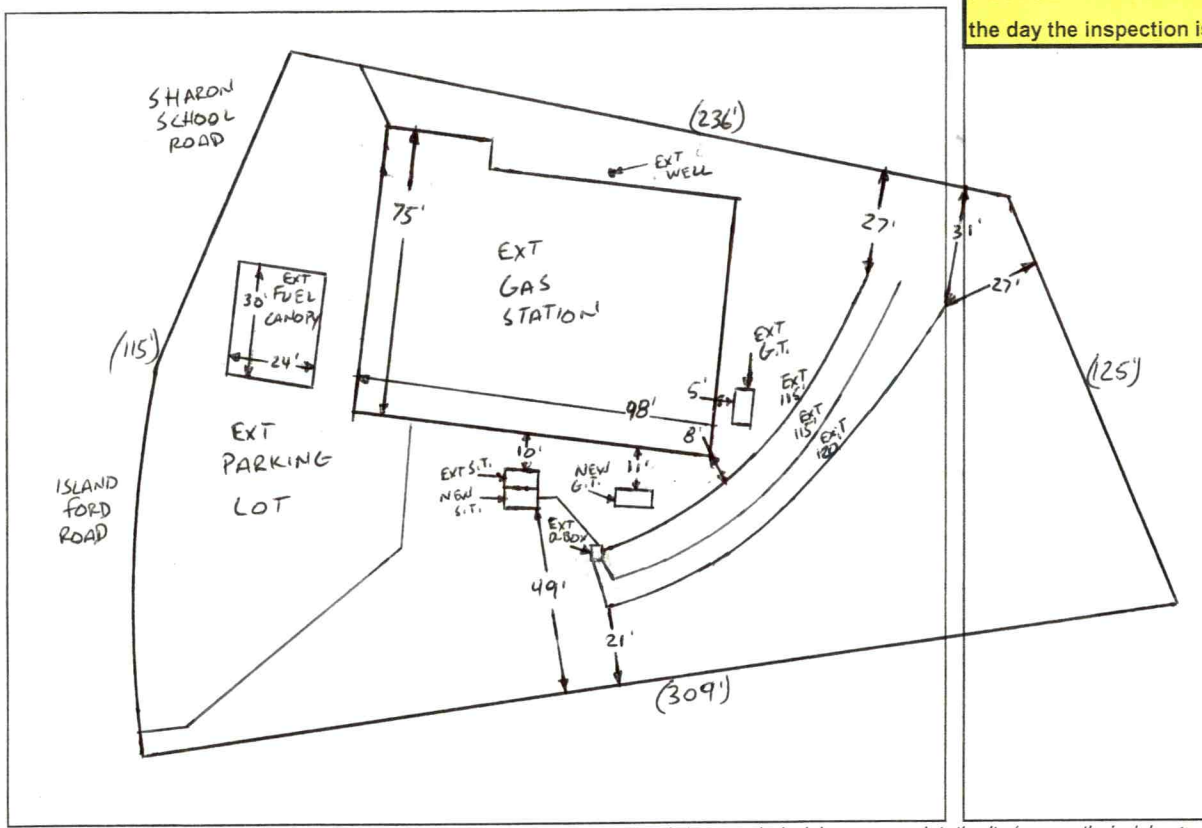
[ ] Basement w/plumbing [ ] Basement w/o plumbing

Limiting Condition

Water Supply: [ ] Private [x] Public [ ] Community

Comments / Conditions: PUMP, CRUSH AND FILL EXISTING SEPTIC TANK AND GREASE TRAP, INSPECT AND REPLACE DISTRIBUTION DEVICES AS NEEDED, DRAIN LINES APPEARED TO BE FUNCTIONING AT TIME OF INSPECTION

INITIAL SITE SKETCH



AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

1 IN = 50 FT
S.T. = SEPTIC TANK
G.T. = GREASE TRAP
EXT = EXISTING

DBOX } 5th
Filters } 9/16/24

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

[ ] **IMPROVEMENT PERMIT** ***with plat*** *valid without expiration.*

[x] **IMPROVEMENT PERMIT** ***with site plan*** *valid for 60 mos.*

[x] **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: ONLINE SIGNATURE Date: —

Installed by: AB Construction

IMPROVEMENT PERMIT by: Burnett C. White Date: 8-27-2024

OPERATION PERMIT by: Sydney Townsend Date: 9/16/24

AUTHORIZATION TO CONSTRUCT by: Burnett C. White Date: 8-27-2024

Existing System Inspected by: Date:

Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	


3784-83-2199
948
3784-72-5877
125
980'
Ext store
236
87
115
131
Ext
Ext gt outlet
Ext grease trap inlet
3784-72-7634
2174
309
310
Ext st inlet
Ext st outlet
3784-82-1522
980'
3784-72-3686
2180
Sharon School Rd
Island Ford Rd
115
2164
205
Island Ford Rd
3784-72-4288
1 inch = 50 feet
3784-82-1522

PERMIT SNAPSHOT REPORT OSWP-2024-60434 FOR IREDELL COUNTY

Permit Type	Environmental Health OSWP	**Project:**		**App Date:**	08/23/2024
Work Class:	EH Septic Permit	**District:**	Iredell County	**Exp Date:**	NOT AVAILABLE
Status:	PRIORITY PERMIT	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	White, Bryant	**Approval Expire Date:**	
Description:	Septic repair permit				

Parcel: 3784727634.000 Main	**Address:** 2174 Island Ford Rd Statesville, NC 28625 Main	**Zone:** RA(Residential Agricultural District)

Applicant/Authorized Agent	Property Owner
Chirag Patel	Chirag patel
2174 island ford rd	Home: (704) 380-4467
statesville, NC 28625	Business: (704) 380-4467
Mobile: (706) 360-0639	Mobile: (706) 360-0639

Permit Custom Fields

How is your site plan being submitted	Custom Site Plan	Septic Application/Permit Type	Repair	Does the site contain any jurisdictional wetlands	No
Non-domestic Sewage Generated	No	Other Public Agency	No	All proposed structure dimensions	Existing septic repair
Maximum Number of Bedrooms	1	If other Addition/Structure, please explain	Grocery store	Number of Occupants	30
Foundation Type	Concrete Slab Foundation	Residential/Business/Other	Commercial	Number of Employees	3
Water Supply	Other Public Water	Desired Septic System Type	Conventional (most common)	If other septic system type, please explain	
Pump Make		# of Nitrification Fields		Model	
Serial #		System Description		Repair System Description	
Comments/Conditions		Additional Unique Setbacks Apply	No		

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_Chirag_Patel_8/23/2024.jpg	08/23/2024 11:41	Patel, Chirag		Uploaded via CSS
septic tanks_v1.pdf	08/23/2024 12:29	Patel, Chirag	Available Online	
WhatsApp Image 2024-07-19 at 12.47.07 PM_v1 (1).jpeg	08/23/2024 12:39	Hart, Ronda	Available Online	AA

Workflow Step / Action Name	Action Type	Start Date	End Date
Application Completeness Check v.1		08/23/2024 12:43	08/23/2024 12:43
Confirm application complete v.1	Generic Action		08/23/2024 12:43
Lot Readiness Verification v.1			
~~OSWP Septic Preliminary Site Visit v.1~~	Inspection		08/23/2024 12:44
OSWP Site Evaluation v.1	Inspection		
~~**Zoning Review v.1**~~			08/23/2024 12:44
~~Floodplain Admin Overview v.1~~	Task		08/23/2024 12:44
~~Issue Invoice v.1~~	Generic Action		08/23/2024 12:44
~~Fees Paid v.1~~	Generic Action		08/23/2024 12:44
Fees v.1			
Issue Invoice v.1	Generic Action		
Fees Paid v.1	Generic Action		

PIEDMONT DESIGN ASSOCIATES, P.A.
125 East Plaza Drive, Suite 101
Mooresville, NC 28115
Telephone (704) 664-7888 Fax (704) 664-1778
Email: dmunday@pdapa.com

Engineering
Surveying
Planning

August 19, 2024

Mr. Bryant White, REHS
Iredell County Health Department
610 East Center Avenue
Mooresville, NC 28115

Re: Septic System Daily Design Flow Calculations and Recommendations
Sharon Express Convenience Store
2174 Sharon School Road, Statesville, Iredell County, NC

Dear Mr. White:

At your request, we have provided a breakdown of the permitted drainfield and what Mr. Patel is allowed to provide at his convenience store located at 2174 Sharon School Road in Statesville, Iredell County, North Carolina.

The system was repair permitted for 350 linear feet of drain field. The system was being utilized as a meat market (375 sq. ft.) and 3 employees. The system was installed with a loading rate of 0.25 gallons per day which equates to a daily design flow of 263 gallons per day.

Mr. Patel has requested that we analyze the operation at his facility and maximize the potential of the current system. Mr. Patel is offering a store with the following:

- Hunt Brothers Pizza with a design daily flow of 50 gallons per day,
- Food Stand with a Krispy Krunchy Chicken & breakfast grill,
  (268 Sq. Ft. Food Stand Floor Space at 50 gallons / 100 sq. ft. of space)
- 2 full-time employees at 15 hours per day (26 G/D/Employee),
- 1 full-time employee at ≤8 hours per day (12 G/D/Employee) 6 days per week

The daily design flow from the requested items above is 248 gallons per day which is below the daily design flow of 263 gallons per day.

Mr. Patel has offered to shut down the food stand every Sunday to allow for full cleaning of the food stand equipment. It is highly recommended to the Owner to minimize the disposal of water in any drains to system to minimize the hydraulic load on the system during cleaning. Past water usage studies have indicated that cleaning generates an abnormally excessive amount of wastewater.

We recommend that as a condition of the permit that the Local Health Department require several items be done prior to operation:

- Perform a watertight test on all precast tanks and install watertight risers to an above grade on all tank access points.
- Install a grease tank filter (recommend Polylok model PL-625 with 1/32" slots) on grease tank outlet end.
- Install a septic tank filter (recommend Polylok model PL-525 with 1/16" slots) on septic tank outlet end.

- Require quarterly effluent samples pulled from the pump tank serving the facility for the following parameters:

BOD < 650 mg/L & TSS < 100 mg/L.

If parameters exceed these numbers, then additional actions / measures may need to be put into place.

Please contact us if you have any questions or need any additional information to approve this request. Thank you in advance for your prompt review and approval.

Sincerely,

Piedmont Design Associates, PA

Donald L. Munday, P.E.
N.C. Registration No. 17327
President



08/20/2024

Cc.: Mr. Chirag Patel, President

PIEDMONT DESIGN
ENGINEERING/SURVEYING/PLANNING
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125 East Plaza Drive, Suite 101
Mooresville, North Carolina 28115-8812
Telephone (704) 664-7888 Fax (704) 664-1778
NCBELS License No.: C-1007

Job No: 2024-08-17-EC
Sharon Express C-Store Septic System
2174 Sharon School Road, Iredell County, North Carolina

Date: August 19, 2024

System Sizing Calculation

	350	LF Shown
	0.25	LTAR per permit
	263	**Gallons/Day Maximum Flow**
	12	Gal./Day/Employee (Utilizing Low Flow Fixtures)
	2	Employees
	26	Gal./Day for Emp. @ 15 Hours per Day
	1	Employees
	12	Gal./Day for Emp. < 8 Hours per Day
Employee Flow:	64	Gal./Day for All Employees
Flow for Other Store Services		
Hunt Bros:	50	Gal./Day
Food Stand:	50	Gal./100 SF Floor Space
	268	Square Feet
	134	Gal./Day
Total System Flow:	**248**	**Gal./Day**

NC DEPARTMENT OF
HEALTH AND
HUMAN SERVICES

ROY COOPER • Governor
MANDY COHEN, MD, MPH • Secretary
BETH LOVETTE, MPH, BSN, RN • Acting Director
Division of Public Health

Memorandum

To: NC Environmental Health Specialists

From: Nancy Deal, On-Site Water Protection Branch Head

Subject: Updated Design Flow Increase for Addition of Hunt Brothers Pizza to Convenience Stores

Date: January 10, 2019

Based on data provided by Hunt Brothers Pizza, an increase in flow of 50 gallons per day will be added to the system when a Hunt Brothers Pizza unit is added to a convenience store. The 50 gallons per day is based on the cleaning of food preparation materials, food storage materials, and hand washing. This additional design flow is based on the following conditions:

1. All ingredients are prepared elsewhere (crust, sauce, pizza amendments, wings, wingbites, etc).
2. The existing septic system must be correctly sized based on the current facilities, including Hunt Brothers Pizza, prior to the addition of Hunt Brothers Pizza, and shall include a properly sized effluent filter (and riser) in the septic tank.
3. If Hunt Brothers Pizza is the only food service at the store and only one single or double oven is used, no grease trap is required. The addition of any other food service product/facilities requires the addition of a grease trap.
4. Best management practices are followed for the disposal of all solid waste generated by the food preparation process.
5. All food waste should be disposed of as solid waste, not down the drain.