TOWN OF BROOKLYN PLANNING AND ZONING COMMISSION Regular Meeting Agenda Wednesday, May 4, 2022 6:30 p.m.

3 WAYS TO ATTEND: IN-PERSON, ONLINE, AND BY PHONE

Clifford B. Green Meeting Center, Suite 24, 69 South Main Street, Brooklyn, CT Masks are optional for vaccinated individuals. Click link below: https://us06web.zoom.us/j/87925438541 Dial: 1-646-558-8656 Enter meeting number: 879 2543 8541, then press #, Press # again to enter meeting

- I. Call to Order
- II. Roll Call
- III. Seating of Alternates
- IV. Adoption of Minutes: Meeting April 19, 2022
- V. Public Commentary
- VI. Unfinished Business:
 - a. Reading of Legal Notices:
 - b. New Public Hearings:
 - 1. **ZRC 22-002:** Request to amend Zoning Regulations Sec. 7.A.3.4. to allow hanging signs in the Planned Commercial (PC) Zone, Applicant: The Ice Box (Matt & Jenn Nemeth).
 - 2. **PDZ 22-001, ZRC 22-003, ZC 22-001:** A proposal for a Planned Development Zone near and around the intersection of Wolf Den Road and Bush Hill Road, including 538 Wolf Den Road and totaling 13 parcels on 534 acres, Applicant/Owner: Little Dipper Farm, LLC.
 - c. Continued Public Hearings: None.
 - d. Other Unfinished Business:
 - 1. **ZRC 22-002:** Request to amend Zoning Regulations Sec. 7.A.3.4. to allow hanging signs in the Planned Commercial (PC) Zone, Applicant: The Ice Box (Matt & Jenn Nemeth).
 - SD 22-001: A proposal for a one-lot subdivision on Woodward Road (Map 10, Lot 25-5), Applicant: Gary McMahon. *Awaiting parcel history*
 - 3. **PDZ 22-001, ZRC 22-003, ZC 22-001:** A proposal for a Planned Development Zone near and around the intersection of Wolf Den Road and Bush Hill Road, including 538 Wolf Den Road and totaling 13 parcels on 534 acres, Applicant/Owner: Little Dipper Farm, LLC.
 - 4. Potential action re: "opt-out" provisions in Public Act 21-29. *Awaiting May 17th public hearing.*
- VII. New Business:
 - a. Applications: None.
 - b. Other New Business: None.

VIII. Reports of Officers and Committees:

- a. Staff Reports
- b. Budget Update
- c. Correspondence
- d. Chairman's Report

IX. Public Commentary

X. Adjourn

Michelle Sigfridson, Chairman

TOWN OF BROOKLYN PLANNING AND ZONING COMMISSION Regular Meeting Tuesday, April 19, 2022 6:30 p.m.

3 WAYS TO ATTEND: IN-PERSON, ONLINE, AND BY PHONE

Clifford B. Green Meeting Center, Suite 24, 69 South Main Street, Brooklyn, CT Masks are optional for vaccinated individuals. Click link below: https://us06web.zoom.us/j/84765564828 Dial: 1-646-558-8656 Enter meeting number: 847 6556 4828, then press #, Press # again to enter meeting

MINUTES

- I. Call to Order Michelle Sigfridson, Chair, called the meeting to order at 6:32 p.m.
- Roll Call Michelle Sigfridson, Carlene Kelleher, Allen Fitzgerald, Lisa Herring, Sara Deshaies and Gill Maiato (all present in person).
 John Haefele, Seth Pember and J.R. Thayer were absent.

Staff Present (in person) Austin Tanner, First Selectman.

Also Present in Person: Zack LaBonte, Core Holdings, LLC; J.S. Perreault, Recording Secretary.

There were 13 additional people present in the audience.

Present via Zoom: Bob

a. Move Alternates up to Regular positions on the Planning and Zoning Commission.

Motion was made by A. Fitzgerald to appoint the following Planning and Zoning Commission alternates to the following open positions on the Commission:

Term expiring 1-1-23: Sara Deshaies

Term expiring 1-1-24: Lisa Herring

Second by C. Kelleher.

There was discussion regarding a possible remaining open position. Mr. Tanner stated that Gill Maiato is official as an Alternate for this meeting. Matting particular provide (2, 0, 0)

Motion carried unanimously (3-0-0).

III. Seating of Alternates

Motion was made by A. Fitzgerald to seat Lisa Herring, Sara Deshaies and Gill Maiato as Voting Members for this meeting (April 19, 2022).

Second by C. Kelleher.

Discussion: Ms. Sigfridson explained that Mr. Maiato was not actually a member of the PZC yet. No vote taken.

A.Fitzgerald rescinded his motion and C. Kelleher withdrew her second.

Motion was made by A. Tanner to add the following Item to the Agenda:

II. a. Move Alternates up to Regular positions on the Planning and Zoning Commission. Second by A. Fitzgerald. No discussion.

Motion carried unanimously (3-0-0). See above, Agenda Item II. a.

Motion was made by A. Fitzgerald to seat Gill Maiato as a Voting Member for this meeting. Second by C. Kelleher. No discussion. Motion carried unanimously (5-0-0).

IV. Adoption of Minutes: Meeting April 6, 2022

Motion was made by C. Kelleher to approve the Minutes of the Regular Meeting of April 6, 2022. Second by L. Herring. No discussion. Motion carried unanimously (6-0-0).

V. **Public Commentary** – None.

VI. Unfinished Business:

a. Reading of Legal Notices

M. Sigfridson read aloud the Legal Notice for ZRC 22-001.

b. New Public Hearings:

1. **ZRC 22-001:** Request to change Zoning Regulations Sec. 4.C.2.5. to add selfstorage facilities as a permitted use in the Restricted Business Zone, Applicant: Core Holdings, LLC.

Ms. Sigfridson stated that the certified mail receipts had been submitted and that the public hearing notice had been sent to the NECCOG and to the Town of Plainfield.

Zack LaBonte, Core Holdings, LLC represented himself and gave an overview of his proposal for a Zone Change:

• Mr. LaBonte began by speaking about specifics for a particular property within the RB Zone (660 Wauregan Road) which he would like to develop for self-storage units.

Ms. Sigfridson explained that that particular project is not before the PZC for consideration tonight. She explained that it would be a two-step process. She said that self-storage facilities are allowed in certain areas in Town, but not the RB Zone. What is being considered tonight is whether to add self-storage facilities as a use, by special permit, within the RB Zone.

There were no questions or comments from the Commission at this time.

QUESTIONS/COMMENTS FROM THE PUBLIC:

Victoria Fradette, Wauregan Road, voiced concern regarding increased traffic, children and adults walking. She asked if an environmental impact study had been done.

Ms. Sigfridson explained, again, that no particular project is before the Commission. She asked if there were more general questions or comments about this proposal which would affect many different properties in Town, both along Route 6 in the RB Zone there and the entire Business Zone in this neighborhood on Route 205. She explained that, if this proposal is accepted by the Commission, then, the Applicant would need to apply for a special permit for a specific project at a specific property which would require another public hearing. **Mark Curreri**, 656 Wauregan Road, asked if there is another way, other than the publication, that the public was supposed to have been notified. He said that he lives directly adjacent to the property and he said that the people from the community are present because they have concerns and are opposed to having a storage facility in that location. He said that the property has special concerns because it is in a wetlands. There are water sources that run across their property and into the part that where the Applicant would like to propose a self-storage facility. Mr. Curreri stated that, in the spring, it floods on his side. He feels that it would require excavation on other properties to mitigate the water. He is concerned that if it is paved, that would cause more water run-off.

Ms. Sigfridson explained that applications to change the Zoning Regulations are published in the *Turnpike Buyer* and on the Town website.

Mr. Fitzgerald explained that the Applicant is seeking a change to the Zoning Regulations

Ms. Herring explained that there are a lot of uses that are already allowed. Ms. Sigfridson explained that the Commission is not considering a particular property and that Mr. LaBonte included some renderings just to show what his plan are, but the Commission will not be considering specifics related to that property.

Ms. Sigfridson stated that the Commission should consider whether self-storage facilities would complement the other types of uses envisioned in the Zone and the other uses that already exist there. She noted that there is a lot of residential in the Zone.

Ms. Sigfridson explained about the two areas/zones (a section in West Wauregan and a section on Route 6 between Church Street and the intersection with Route 169) that would be affected if this Application were approved.

Zack, 650 Wauregan Road, is concerned about square footage. They don't mind the AMVETS being there because they are not noisy and pretty-well contained. They are okay with Cozy Corner Restaurant. He said that the people present all agree that they don't want a giant self-storage facility there with people coming and going at all hours of the night. He is concerned about traffic and also about crime which is surging in the area.

Mr. Tanner noted that, currently, there is not a lot of restriction on square footage, it would just be a different process to go through.

Don Nash, voiced concern about lights being on all night long. He said they are opposed to having that view in their backyard.

Mr. LaBonte explained that there are multiple uses under RB that could be developed on that property. He said that it is good to understand what the concerns are.

Alex Monterro, 655 Wauregan Road, said that, from his porch, he will see a whole bunch of storage bins with cars going to them.

Brett Nash, 654 Wauregan Road, is concerned about backyard flooding, his leach field, that his property stakes don't match, theft/crime, traffic, Mr. Curreri's property, tree line, lighting, children, heavy truck traffic, dirt and dust from triaxles, speeding,

Mr. LaBonte stated that he would make sure that they do the grading in a manner that would not cause problems for other people. He wants to be a good neighbor and is confident that it can be worked out.

Paul Brennan, 651 Wauregan Road, is concerned about operating hours (24/7?), traffic, lighting, number of units. He asked where else in Town self-storage facilities are allowed. The more units, the more traffic, the longer people will be going in and out. He suggests a cap on the number of units. Ms. Sigfridson explained that self-storage is allowed in the PC District. She explained that in Brooklyn, we let the free market decide how many different

types of businesses pop up.

Mr. Fitzgerald explained that it is also allowed as an agricultural reuse.

Mark Curreri said that none of the storage facilities in the area are located in residential areas. He feels that it is not proper for a residential area for security reasons and vandalism.

Mr. Fitzgerald read from the Regulations regarding Section 8.2 of the CT General Statutes. He said that the areas of concern are being addressed by the public, such as traffic and property values, and that the PZC considers the Application based on input from the public.

Zack commented that he feels that a storage facility won't be beneficial to the community and there is a good chance that it will fail. He is concerned about having abandoned failed businesses in the neighborhood.

Mr. Tanner stated that comments are still being directed toward a specific project. He read aloud from the Regulations regarding the purpose of the RB Zone and uses already permitted.

Paul Brennan commented that the size of the unit and hours of operation play a big part (15 units means 15 cars going there once a week/month / 400 units means may 100-200 car per day going there).

Mr. Tanner explained that there are provisions in the Regulations to address bigger projects and that the PZC has the ability to restrict hours and lighting.

Ms. Sigfridson explained that the Commission needs to consider if this type of use is similar to the things already allowed there or is there something different about self-storage, as a business, that we would not consider allowing that, in general, in the area (e.g. employees at businesses go home at the end of the day).

Julie Caouette, 656 Wauregan Road, next door to the property, voiced concern about hours of operation, comings and goings at all hours of the night, lights being on all night which would impact quality of life in a residential area, security, transient people coming around her property, property values.

Victoria Fradette asked if there is a way to appeal if the Application is approved.

Ms. Sigfridson stated that now is the time to voice your opinion and she explained that interested parties can sue which is available as a remedy.

Mark Curreri stated that there is a strong representation of the neighborhood present and their recommendation is to vote against the Application.

Mr. Fitzgerald asked how many present are individual property owners. He, then, said, after seeing raised hands, that there were approximately ten separate homes represented.

Alex Monterro stated that he bought his house about eight or nine months ago and if there was a storage unit, he would not have even looked at the house.

Paul Brennan said that Mr. LaBonte had provided information regarding his intention to build self-storage units on a particular property in their neighborhood and he expressed that he feels that the public should be allowed to ask questions regarding their concerns. He asked if he plans on having lights on all night long, if he plans on putting 400 units in the back and does he plan for it to be open 24 hours a day.

Ms. Sigfridson stated that, if there are specific questions that he would like answered, the Commission would allow Mr. LaBonte to answer them. However, she explained that those factors would not be considered by the Commission in deciding on this Application.

Mr. LaBonte addressed questions/comments:

- Typically, self-storage is a localized business (3-5 mile range), so there wouldn't be transient people coming from outside areas.
- The facility would not be open 24 hours a day. There would be a gate with key-card access for people to in and out during certain times.
- There would be small, localized lighting on the buildings which he assumes, from a security standpoint, would be on all night.
- He would start by putting in 144 units. He explained that he feels that the property could accommodate 200 units.

Mark Curreri commented that the Plainfield Police are in the village of Wauregan quite often due to vandalism and domestic problems. He stated that there is access from the back of the property, from the River and from Wauregan to the neighbors' properties. He said that anything can be stored in the units and there could be security/safety issues. He said that he is opposed.

Paul Brennan commented about a store that got robbed three times (at midnight with people present) within the eight months since it has been opened.

Kelly Nash, 654 Wauregan Road, asked if there would be an alarm system. Mr. LaBonte explained that there would be one way into the property which would be controlled by a gate, outside from that, it would be a secured area with a fence. There would be security cameras.

Victoria Fradette explained that her biggest concern is safety. She is concerned about hundreds of people looking into her backyard.

Don Nash asked how many properties Mr. LaBonte has invested in to push this along.

It was explained that Mr. LaBonte had not invested in another property on Route 6 also.

Mr. LaBonte explained that if this Application were approved, then a special permit would need to be applied for. It would be on a case-by-case basis.

Ms. Sigfridson commented, for the record, that the self-storage units on Allen Hill Road is in a residential zone and has created problems for the neighbors in that area, not home invasions or violent crimes, but more of inconvenience (based on what she has heard). Mr. Fitzgerald stated agreement.

C. Kelleher stated that she does not feel that the RB Zone on Route 6 is an appropriate place for self-storage units.

Motion was made by A. Fitzgerald to close the public hearing for **ZRC 22-001:** Request to change Zoning Regulations Sec. 4.C.2.5. to add self-storage facilities as a permitted use in the Restricted Business Zone, Applicant: Core Holdings, LLC.

Second by S. Deshaies.

Discussion: M. Sigfridson explained that once the public hearing is closed, no additional information may be taken.

Motion carried unanimously (6-0-0).

c. Continued Public Hearings: None.

d. Other Unfinished Business:

1. **ZRC 22-001:** Request to change Zoning Regulations Sec. 4.C.2.5. to add selfstorage facilities as a permitted use in the Restricted Business Zone, Applicant: Core Holdings, LLC.

There was discussion and Mr. Fitzgerald explained that he is basing his decision on public health, safety, welfare, or property values that are not consistent with the POCD and the intent of the Zoning Regulations. He said based on the people that live there that own property, they have a real problem with it and he feels that it will affect their lives way too much.

Motion was made by A. Fitzgerald to deny the proposal to change Sec. 4.C.2.5. of the Zoning Regulations to add self-storage facilities as a Special Permit Use in the RB Zone with the finding that the changes will not aid in the protection of public health, safety, welfare, or property values and/or are not consistent with the Plan of Conservation and Development or the intent of the Zoning Regulations.

Second by S. Deshaies.

Discussion:

- Mr. Tanner explained that he is in favor of the zone change.
- Mr. Maiato stated that he is in favor of the zone change.
- Ms. Herring explained that she could see how hours of operation could be a concern in the zone.
- Mr. Fitzgerald commented that the spaces could be rented out to contractors or people who could repair cars there.
- The definition of self-storage was read aloud.
- Ms. Kelleher commented that it would be difficult to try to enforce/set limits on what goes in the units. She also is concerned about extending the RB Zone along the Route 6 area. She does not feel that it is consistent with the POCD.
- Ms. Sigfridson stated that the RB Zone is intended for uses that generate low volumes of traffic. Based on the concerns expressed from the neighbors tonight and her personal knowledge of what the impacts have been from other self-storage facilities, she will vote in favor of the motion to deny.

Motion to deny carried (5-1-0). Gill Maiato was opposed.

- 2. **ZRC 22-002:** Request to amend Zoning Regulations Sec. 7.A.3.4. to allow hanging signs in the Planned Commercial (PC) Zone, Applicant: The Ice Box (Matt & Jenn Nemeth). ***Public Hearing scheduled for May 4, 2022.***
- 3. **SD 22-001:** A proposal for a one-lot subdivision on Woodward Road (Map 10, Lot 25-5), Applicant: Gary McMahon. *Awaiting parcel history*
- PDZ 22-001, ZRC 22-003, ZC 22-001: A proposal for a Planned Development Zone near and around the intersection of Wolf Den Road and Bush Hill Road, including 538 Wolf Den Road and totaling 13 parcels on 534 acres, Applicant/Owner: Little Dipper Farm, LLC. *Public Hearing scheduled for May 4, 2022.*

VII. New Business:

- a. Applications: None.
- b. Other New Business:
 - 1. Scheduling of Public Hearing re: "Opt-Out" of certain provisions contained in Public Act 21-29.

Ms. Sigfridson explained that the Commission had expressed an interest in pursuing "Opt-Out" rights. Therefore, a public hearing needs to be scheduled.

Motion was made by L. Herring to schedule a public hearing regarding the "opt-out" provisions contained in Public Act 21-29, Sections 3, 5 and 6 for the meeting of the Planning and Zoning Commission to be held on May 17, 2022, at 6:30 p.m. in the Clifford B. Green Memorial Building, 69 South Main Street, Brooklyn, CT and via Zoom.

Second by S. Deshaies. No discussion.

Motion carried unanimously (6-0-0).

VIII. Reports of Officers and Committees – None.

Ms. Sigfridson stated that she has not heard anything new regarding the POCD since it was sent to NECCOG for review/assistance.

IX. Public Commentary

There was discussion regarding whether the public hearing for **PDZ 22-001**, **ZRC 22-003**, **ZC 22-001**, Little Dipper Farm, should be held in a bigger facility due to the possibility that a large number of people may attend. It was decided that, if necessary, it could be moved to another, larger room in the Clifford B. Green Memorial Building. Mr. Tanner will check to be sure. There was discussion regarding making sure that everyone has a chance to be heard. Mr. Fitzgerald will be on vacation, but may be able to attend the May 17th meeting via Zoom.

X. Adjourn

M. Sigfridson adjourned the meeting at 8:01 p.m.

Respectfully submitted,

J.S. Perreault Recording Secretary

Brooklyn Planning and Zoning Commission Regular Meeting Minutes - Hybrid Wednesday, April 19, 2022

TOWN OF BROOKLYN PLANNING AND ZONING COMMISSION NOTICE OF PUBLIC HEARING

The Planning and Zoning Commission will hold a public hearing on Wednesday, May 4, 2022, at 6:30 p.m. via Zoom and in-person at the Clifford B. Green Memorial Center, 69 South Main Street Brooklyn, CT on the following applications:

ZRC 22-002: Request to amend Zoning Regulations Sec. 7.A.3.4. to allow hanging signs in the Planned Commercial (PC) Zone, Applicant: The Ice Box (Matt & Jenn Nemeth), and

PDZ 22-001, ZRC 22-003, ZC 22-001: A proposal for a Planned Development Zone near and around the intersection of Wolf Den Road and Bush Hill Road, including 538 Wolf Den Road and totaling 13 parcels on 534 acres, Applicant/Owner: Little Dipper Farm, LLC.

Copies of these applications will be available for review on the Town of Brooklyn website and at the Land Use office.

All interested parties may attend the meeting, be heard and written correspondence received.

Dated this 11th day of April 2022.

Please publish 4/20 and 4/27

TOWN OF BROOKLYN PLANNING AND ZONING COMMISSION

REQUEST FOR CHANGE IN ZONING REGULATIONS

Date	3/31/2022	Check #	1050	Applicatio	n #ZRC 22	-002	
Applica	ation Fee: \$250	State Fe	e: \$60	_Publication	n Fee: \$600	\$150	
Public	Hearing Date	C	ommission Action	1	Effective	Date	
Name o	of Applicant	The Ice Box	(Matt & Jenn 1	Nemeth)	Phone	860-235-5087	
Mailing	g Address 131 I	Day Street					
REQU	EST TO AMEND	ARTICLE(S)		_SECTION(S)	7.A.3.4	
	than one Article i				. :	Signs Permitted in the D Commercial Zone	Planned
PARA	GRAPH TO CHAI	NGE		_OF THE 2	ZONING REGU	JLATIONS	
REQU	EST TO CHANGI	E: A Pro	posal to add a nev	w Sec. 3 and	l renumber subs	equent sections accord	ingly.
		-See a	ttached				
REASC	ON FOR REQUES	The .	Hanging sign pro 1ed Commercial 2			, if adopted, would enh	ance the

Note: A petition may be filed at the Hearing by 20% or more of the area lots included in such a change within 500 ft of the property under Section 16.5 of the Zoning Regulations

Request to add NEW Sec. 7.A.3.4.3 and renumber subsequent sections accordingly

A proposal to allow hanging signs in the Planned Commercial Zone.

Sec. 7.A.3.4. Signs Permitted in the Planned Commercial Zone

3. <u>Hanging Sign</u> - One (1) hanging sign shall be permitted per public roadway or driveway entrance provided that:

- a. The area of any hanging sign shall not exceed four (4) square feet.
- b. Any hanging sign shall be connected to the structure and protrude perpendicularly from the structure.
- c. No portion of any such hanging sign shall interfere with pedestrian or vehicular traffic.

*Renumber subsequent sections accordingly.

APPLICATION OF THE LITTLE DIPPER FARM LLC

FOR

THE LITTLE DIPPER FARM (LDF) PLANNED DEVELOPMENT ZONE

FOR CONSIDERATION AT

THE REGULAR MEETING OF THE BROOKLYN PLANNING & ZONING COMMISSION APRIL 6, 2022

INDEX

APPLICATION OF THE LITTLE DIPPER FARM LLC FOR THE LITTLE DIPPER FARM (LDF) PLANNED DEVELOPMENT ZONE PURSUANT TO BZR 5.G

5.G.1.	Purpose of the LDF Planned Development Zone				
5.G.2.	The LDF Planned Development Zone is located in an Eligible Area				
5.G.3.	Directive from the BZR Regarding Preliminary Discussion				
5.G.4.	Basic Parameters				
	1.b. Text A	er Plan Amendment Application Change Application			
5.G.5. Master Plan Submittal					
	5.G.5-1 Overview of the LDF Planned Development Zone				
	5.G.5-2 & 5.G.5-4				
	Conceptual Site Plan, Data Table and Data Table Narrative				
	5.G.5-3 Architectural Schematics Shown as Photographic Samples				
	5.G.5-5 Additional Documentation				
		a. Traffic Information			
		b. Utility Information			
		c. Statement of How the Proposed Development Complies with the Plan of Conservation and Development			
	5.G.4-1b	Text Amendment Application Zone Change Application and The Planned Development Zone Shown on the Official Zoning Map of the Town of Brooklyn			
	5.G.41c				

5.G.1. Purpose of the LDF Planned Development Zone

THE LITTLE DIPPER FARM PLANNED DEVELOPMENT ZONE ("LDF" or "LDF Planned Development Zone")

In accordance with Brooklyn Zoning Regulation ("BZR") 5.G, the LDF will permit modification of the strict application of the standards and provisions of the BZR to (1) accomplish the development of specific areas in accordance with an overall Master Plan for such area and in accordance with the Plan of Conservation and Development adopted in accordance with CGS § 8-23, as amended; (2) be flexible in order to allow for innovative design techniques, accommodate unique uses and encourage creative approaches to development; (3) promote economic development in appropriate locations which will help meet community needs and be compatible with the community; and (4) result in a development that demonstrates a high regard for design and that is compatible with the historic, cultural and geographic qualities of Brooklyn.

5.G.2. The LDF Planned Development Zone is located in an Eligible Area

As detailed in Section 5.G.5-5c of this Application, the location of the LDF is consistent with the objectives and recommendations of the Brooklyn Plan of Conservation and Development (PCD) because of its historical, current, and future sites of agricultural activity. The LDF will also provide compatible agricultural and non-agricultural uses which will serve as educational and outreach programs and preserve the aesthetic beauty of the farmland, all of key importance to the PCD.

5.G.4. Basic Parameters

Submitted to the Brooklyn Planning and Zoning Commission ("the Commission") are three (3) applications:

- 1.a. A Master Plan
- 1.b. A Text Amendment Application: the wording of the change applied for is the Master Plan documentation submitted, as approved by the Commission
- 1.c. A Zone Change Application, locating the LDF on the official Zoning Map

5.G.5 MASTER PLAN SUBMITTAL

5.G.5-1 Overview of the LDF Planned Development Zone

THE LITTLE DIPPER FARM PLANNED DEVELOPMENT ZONE ("LDF" OR "LDF PLANNED DEVELOPMENT ZONE")

The Little Dipper Farm Planned Development Zone is intended to support permaculture and sustainable agriculture in an environment that facilitates public participation, agritourism and non-motorized outdoor recreation. It is also intended for general agricultural uses, low density residential uses, office use and agritourism uses. The LDF will incorporate all uses permitted in the RA Residential-Agricultural Zone and allow other uses governed by the Master Plan approved by the Planning and Zoning Commission in accordance with Section 5.G of the BZR.

5.G.5-2 CONCEPTUAL SITE PLANS

AND

5.G.5-4 DATA TABLE

5.G.5-4 DATA TABLE NARRATIVE

5.G.5-4 Data Table Narrative

RA Residential-Agricultural Zone

The LDF will not supersede the RA Residential-Agricultural Zone but will allow any agricultural, both commercial and non-commercial and low-density residential use permitted by right or by special permit in the RA Residential-Agricultural Zone pursuant to BZR 5.G.7.4.

Grandfathered Uses

The historic buildings and structures on site are non-conforming and their uses legal non-conforming uses under the RA Zone and BZR § 8.B.

The existing uses include both RA and legal nonconforming uses: the Farmhouse; Garage Barn; Greenhouse; Multi-Use Barn, including restaurant and retail store, also used as an Events Facility as defined in BZR § 2.B; Utility Shed, Hay Barn and Gypsy Wagon which was used for overnight stays. The grounds were also used for Events including Outdoor Music Events.

LDF Planned Development Zone Uses

The LDF will allow other uses consistent with the Master Plan and the site plan approval required by 5.G.9. It is recognized that the Master Plan may require fluidity in order to accommodate market changes during the complete development of any project. Notwithstanding this requirement, the uses are proposed to include:

Agritourism—intended for commercial enterprise uses and events which will promote the economic and environmental sustainability of agriculture. The use will attract members of the public to visit the on-site agricultural operations to increase farm income and provide recreation, entertainment and educational experiences to visitors to enhance the public's understanding and awareness of farming, farm life and the agricultural heritage of the land. Agritourism will include passive recreation: such as walking, running, hiking, trail biking or fishing; and events for the purpose of accommodating a group of diners, patrons, guests or other attendees for functions such as banquets, wedding receptions, parties, entertainment, performances and/or similar gatherings in a farmland setting.

Agritourism Retreat—retreat activities, including overnight occupancy in tents, tent houses, cabins or cottages that will attract members of the public to visit the farmland. Agritourism Retreat will include food and beverage service, recreation and other uses customarily ancillary to outdoor retreats, and will offer programming which promotes an appreciation of the aesthetics of the operations, practices, and products of the farmland.

Office—intended for office, business and administrative use for the management, direction, planning, marketing or conducting agritourism, and may include the administrative offices of a non-profit or charitable organization.

Narrative for Uses Shown on the Data Table:

Reference should be made to the Data Table and/or Master Plan Map for the proposed sites, dimensions and impervious areas of the following uses

Proposed Master Plan Agricultural Residential Uses:

- Barns, including but not limited to Farm Core Barns and Ruminant Barns
- Loafing Sheds¹
- Silvopasture² Sheds
- Residential House
- Hoop Houses³
- Work-Yards

Proposed Master Plan Agritourism Uses:

- Farm Pavilion
- Multi-Use Barn Restaurant
- Multi-Use Barn Retail Store
- Multi-Use Barn Event
- Multi-Use Barn Office
- Star-Gazing Silos
- Boat House
- Docks
- Forest Education Structures
- Yoga Pavilion
- Stargazing Pavilion
- Outdoor Stone Pizza Oven⁴

Proposed Master Plan Uses Accessory to Agritourism:

- Trail Head Support Building
- Restrooms
- Maintenance Buildings
- Storage Buildings

¹ A loafing shed is for cattle in which they range at will on a heavy bedding of straw rather than occupy fixed stanchions.

² Silvopasture is the deliberate integration of trees and grazing livestock operations on the same land. These systems are intensively managed for both forest products and forage, employing agronomic principals, typically including native pasture grasses and rotational grazing systems that employ short grazing periods which maximize vegetative plant growth and harvest.

³ Hoop Houses are small, semi-portable structures that can be used as a small greenhouse structure for starting seedlings and for growing heat-loving vegetables. A hoop house provides frost protection, limited insect protection, and season extension.

⁴ The outdoor stone pizza oven will be used for farm produce cooking demonstrations and events that involve food service.

- Work yards
- Farm Member Parking
- Staff Parking
- Guest Parking
- 15-Minute Parking
- Handicapped Parking
- Commercial Vehicle Parking
- Trail Head Parking
- Overflow Parking

Proposed Master Plan Agritourism Retreat Uses:

- Bath Houses
- Lobby / Reception / Check-In
- Food and Beverage Service, including the service of alcoholic beverages
- Boat House
- Dock
- Lodging Sites
- Staff Housing
- Recreational Use⁵
- Retail Store

Proposed Master Plan Uses Accessory to Agritourism Retreat:

- Support Buildings
- Back of House Building⁶
- Maintenance Buildings
- Staff Housing
- Patios
- Guest Parking
- Staff Parking
- Lobby / Reception Parking
- Food Service Parking
- Commercial Vehicle Parking
- Overflow Parking

⁵ The Agritourism use will include activities such as guided nature walks, guided mediations, yoga or other exercise classes, fishing, bird watching, hiking, trail biking, wild foraging tours and craft workshops.

⁶ Back of House areas are non-public areas, within and/or surrounding a venue, for use by staff members and generally those areas of the venue designed to support the operation.

Proposed Master Plan Office Uses:

- Office, Business
- Office, Administrative

Proposed Master Plan Accessory to Office Uses:

• Office Staff Parking

5.G.5-3

ARCHITECTURAL SCHEMATICS SHOWN AS PHOTOGRAPHIC SAMPLES

5.G.5-5c STATEMENT OF HOW THE PROPOSED DEVELOPMENT COMPLIES WITH THE PLAN OF CONSERVATION AND DEVELOPMENT

5.G.5-5d Consistency with the Plan of Conservation and Development.

The location and uses of the LDF are consistent with the objectives and recommendations of the Plan of Conservation and Development (PCD) adopted in accordance with Con. Gen. Stat. § 8-23, as amended, because it is the site of agricultural activity that dates back many hundreds of years as a sheep farm and plans to continue farm operation. As stated in the PCD, "[s]urveyed residents consistently cited farmland preservation, the rural quality of the Town, and agricultural heritage as very important priorities." The LDF will continue this agricultural heritage as a farm for crops such as elderberries, hay, pumpkins, shiitake mushrooms, and a variety of fruits, vegetables and eggs for community-supported agriculture (CSA).

The LDF will support the viability and preservation of Brooklyn farmland, preserving a very high priority of Brooklyn's PCD. In addition to contributing to the farming priority of the town, the LDF will maintain the aesthetic beauty and rural landscape present on the land. The LDF will promote a viable agricultural cluster. The LDF is located near other working farms in the northwestern corner of Brooklyn. One of the largest existing agricultural draws to the area, Lapsley Orchard, is a short distance away. There are numerous agricultural operations in the immediate vicinity.

Economic and environmental sustainability of agriculture will be promoted with a creative approach to development. While innovative, the use is simultaneously a through line to the property's history as a nationally renowned restaurant, The Golden Lamb Buttery, which brought people to enjoy the farm-fresh food, as well as the views and experience of the beautiful farm property. The Golden Lamb Buttery together with Hillandale Farm were pioneers in creating a one-of-a-kind hospitality experience featuring hayrides with cocktails, live entertainment and farm to table dining. The Golden Lamb Buttery also offered a store with value-added farm products, art and souvenirs. Similarly, the LDF will provide a restaurant and store as well as opportunities for agritourism, including educational programming, day and overnight agritourism retreats, and non-motorized outdoor recreation.

The LDF uses will draw people from surrounding metro areas to Brooklyn for day trips and weekend stays. The primary focus of the tourism is to be the sustainable farming happening on the property. Fitting right into the PCD is the concept of farm membership, bringing people for recreation, farm-fresh food, education, activities, retreats, tours and other events, which use blends agricultural and non-agricultural land uses, while safeguarding the aesthetic of the land.

In keeping with Recommendation Number 16 of the Agriculture Section of the Plan of Conservation and Development, the PCD plans to utilize silvopasture as an agroforestry practice to integrate livestock and forage production. The management of trees will be intentionally integrated into livestock grazing to improve farm production.

As an underpin to the farm education, the LDF will provide office and programming space for all ages that will serve as a Visitor Center and educational hub. The use which attracts members and provides public education and information exactly reflects Recommendation Number 4 in the PCD: "Encourage educational and outreach programs to promote the further understanding of the benefits of locally produced foods, local farm operations, and how agriculture can be continued to be supported in Brooklyn." The combination of uses permitted in the LDF will create a farm weekend or day trip destination, providing an economic boost not only to the farm but to the Town of Brooklyn as a whole.

5.G.4-1b TEXT AMENDMENT APPLICATION

TOWN OF BROOKLYN TEXT AMENDMENT APPLICATION

Date: April 4, 2022	Check #	Application #
Public Hearing Date:	Commission Action Date: _	Effective Date:
Name of Applicant: Contact:	The Little Dipper Farm LLC Venus Corriveau	Phone: 860-617-5518

Applicant's interest in the subject property: Owner

Mailing Address: 499 Wolf Den Road Brooklyn Connecticut 06234

Request: According to Brooklyn Zoning Regulations (BZR) § 5.G.7 accept The Little Dipper Farm Planned Development Zone (LDF) Master Plan materials as a distinct part of the text of the BZR and to modify Section 5.G.11 to reference the approved Master Plan and any conditions of approval, to wit:

5.G.11.A. Planned Development Zone 1, The Little Dipper Farm Planned Development Zone (LDF) approved by the Commission at a meeting on ______, effective on ______, and filed on the land records at Volume _____, Page _____ and/or Map File ______.

5.G.4.-1c ZONE CHANGE APPLICATION

TOWN OF BROOKLYN ZONE CHANGE APPLICATION

Date: April 4, 2022	Check #	Application #
Public Hearing Date: _	Commission Action Date:	Effective Date:
Date Abutters Notified	Date Sign Posted:	
Name of Applicant: The Contact: Ve	he Little Dipper Farm LLC enus Corriveau	Phone: 860-617-5518
Applicant's Interest in	the Property: Owner	

Mailing Address: 499 Wolf Den Road Brooklyn Connecticut 06259

Request For Approval of The Little Dipper Farm Planned Development Zone (LDF)

Currently RA Zone

Reason for the request: In conjunction with the requested approval of The Little Dipper Farm LLC (LDF) Planned Development Zone; Change of Zone from RA to The Little Dipper Farm LCC (LDF) Planned Development Zone for all following lots:

MAP 18 LOT 18	MAP 18 LOT 19	MAP 18 LOT 19-B
MAP 18 LOT 19B-2	MAP 18 LOT 19-4	MAP 18 LOT 19-6
MAP 18 LOT 19-7	MAP 19 LOT 18-A	MAP 19 LOT 9-B
MAP 19 LOT 19-B	MAP 19 LOT 19-C	MAP 19 LOT 18-B-2
MAP 20 LOT 4-B		

5.G.4.-1c PLANNED DEVELOPMENT ZONE SHOWN ON THE OFFICIAL ZONING MAP OF THE TOWN OF BROOKLYN

April 5, 2022

Town of Brooklyn Planning and Zoning Commission 4 Wolf Den Road PO Box 356 Brooklyn CT 06234

Re: Planned Development Zone Application The Little Dipper Farm LLC

To the Town of Brooklyn Planning and Zoning Commission:

I am the Managing Member of The Little Dipper Farm LLC. The Little Dipper Farm LLC is the owner of the parcels involved in the Planning Development Zone Application and supports the application.

I am authorized to sign the acknowledgement and support of the application on behalf of The Little Dipper Farm LLC.

Very truly yours,

Venus Corriveau, Authorized Managing Member The Little Dipper Farm LLC

CLA Engineers, Inc.

Civil • Structural • Survey

 317 MAIN STREET
 •
 NORWICH, CT 06360
 •
 (860) 886-1966
 •
 (860) 886-9165 FAX

April 1, 2022

Lori Corriveau Little Dipper Farm, LLC 499 Wolf Den Road Brooklyn, CT 06234 Email: <u>loricorriveau@gmail.com</u>

RE: Little Dipper Farm Property – Utility Statement Wolf Den / Bush Hill Road Brooklyn, CT CLA –7043

Dear Lori,

As requested, we have studied the existing utility infrastructure in place and estimated the utility infrastructure likely needed for the proposed Little Dipper Farm Development. We note that this study is preliminary in nature and intended to give you a general snapshot of existing infrastructure in place and anticipated infrastructure to be developed to service your proposed use.

The subject property is delineated on the plan entitled "Master Plan Sketch – Overall – Little Dipper Farm, 499 Wolf Den Rd, Brooklyn, CT, Sheet A01 prepared by Shelter Design Architecture, Dated 3-30-22. We will refer to this plan throughout our study.

The future development of the property that is subject to the more intense infrastructure needs is broken into two sections. The first section is located just east of the Wolf Den Road/Bush Hill Road (existing Golden Lamb barn area) intersection and will be called "Farm Core" to be consistent with the above referenced plan. The second section is located on the northeast side of the property pond and will be called "North East", again to be consistent with the above referenced map.

The following existing utilities are available to the site via either Wolf Den or Bush Hill Road:

- Electricity Eversource
- Communication Frontier
- Cable Spectrum
- Drainage Town of Brooklyn/On-site

The following utilities must be handled on site as there is no public option:

- Domestic Water: Private wells
- Sewer: Private septic system

General discussions with Eversource indicate that they can support this development and will upgrade their infrastructure as needed. Due to minimal anticipated impervious surfaces in the proposed development in comparison to the amount of existing available undeveloped land, we assume stormwater management can be handled effectively on site. Our focus will therefore center on the what is needed to provide the onsite sewer and water service for this development.

Sewer:

Below are the proposed uses and respective estimated sewer/water flows for the two sections of the development (CT Public Health Code design flows were utilized):

Farm Core Barn Restaurant:	100 seats @30 gpd/seat	= 3,000 gpd
North East Retreat Lodging: Staff Lodging: Total North East	50 Camp Sites @75 gpd/site 5 staff @ 150 gpd	= 3,750 gpd <u>= 750 gpd</u> = 4,500 gpd
Total Site		=7,500 gpd

Sewer flows less than or equal to 7,500 gpd will fall under the jurisdiction of the CT Public Health Department and the Northeast District Department of Health.

We have performed a review of the existing soil conditions (as mapped by NRCS) to estimate the most advantageous location to site the leaching fields. In general, we are trying to select soils with a reasonable infiltration rate and a low water table/restrictive layer. These conditions will minimize the size of the leaching field. Conversely soils with a slower infiltration rate and higher water table/restrictive layer will require a larger leaching field or may prevent siting of the leaching field. In addition, we are trying to choose areas that maintain a certain distance from what is considered "a point of concern" which could be a wetland, water course or neighboring property boundary. Also areas that have some slope will allow more flexibility in the configuration of the leaching field while level slopes may require certain leaching field configurations that a property may not support.

The existing barn restaurant in the "Farm Core" area is serviced by an existing septic system under the jurisdiction of the local health department (NDDH). According to NDDH records on file, this system is comprised of a 1,500 gallon septic tank, a 1,000 gallon grease trap and a leaching field designed to handle 1360 gpd and expanded in 2012. The actual permit states that the system will handle a "seasonal" restaurant capacity of 75 seats. It is unclear what the seasonal designation means. The permit file also references that the site has an event capacity of 150 persons.

If domestic sewer use at the Farm Core area is increased as proposed, the existing septic system would need to be expanded.

Soils in the vicinity of the Farm Core area are Woodbridge (45B & 47C) according to NRCS mapping. In general, these soils have a slow infiltration rate and a high water table/restrictive layer. Siting of the leaching field in this area will likely require a "fill system" due to the anticipated shallow groundwater/restrictive layer. Fill systems are required when there is not sufficient separation from naturally occurring soils and the seasonal high groundwater/restrictive layer. We also note that these soils, on occasion, contain pockets of inland wetlands which could potentially hinder use of these soils for leaching fields. An approximate area was sized based on an assumed soil permeability rate and the estimated flows. We estimated that potentially up to 13,000+/- SF could be required to site this system. An area is shown on the above referenced map (#43) and signifies a potential leaching field site area for the Farm Core.

Soils in the vicinity of the North East area vary from Canton and Charlton (62C) in the southern region and change to Woodbridge (47C) and then Paxton and Montauk (84B) as you move north. We recommend splitting the leaching field up and siting it in two areas utilizing the preferred soils (Canton & Charlton / Paxton & Montauk). Approximate leaching field areas were sized based on an assumed soil permeability rate and the estimated flows. We estimate this leaching field could require up to 15,000+/- SF in the Canton & Charlton soil area (#37 on referenced map) and up to 15,000+/- SF in the Paxton & Montauk soil area (#44 on referenced map). These areas signify potential leaching field site areas for the North East area.

Sewer collection would be accomplished in both sections through a combination of gravity piping or force main pumping as needed.

Water:

Permitting the proposed water system for both the Farm Core and the North East area will fall under the jurisdiction of the CT Department of Public Health. Both systems will be classified as Transient Non-Community Systems (T/NC System) which service at least 25 people throughout the year, provided they are not the same 25 people over a 6-month period.

The existing barn restaurant in the Farm Core area is currently permitted through the CT Department of Public Health (CT DPH) as a T/NC system. Based on information from the well driller (Laframboise), an existing hand dug well was replaced as part of this system in 2015. A new well was drilled to a depth of 540' (using 240' of casing) and has a yield of 10 gpm. According to the well driller, the well yield was more than 10 gpm but must be maintained at 10 gpm due to a minimum separation of 75' from the existing building septic system (a 150' separation from a pollution source is required to draw more than 10 gpm from a well).

The proposed increase in restaurant seating capacity will not change the status of the existing CT DPH water system permit. Potential upgrades to the system related to storage may be needed to support the increased water consumption.

A new separate water system for the proposed North East area would need to be installed to service this area. A new well or wells would need to be sited in this area. A potential well siting area has been shown on the above referenced map (circular blue area with "W" just below area 35). Well yield and quality will determine the need for storage and treatment. Water distribution would be accomplished through pumping the stored water via underground piping for this section.

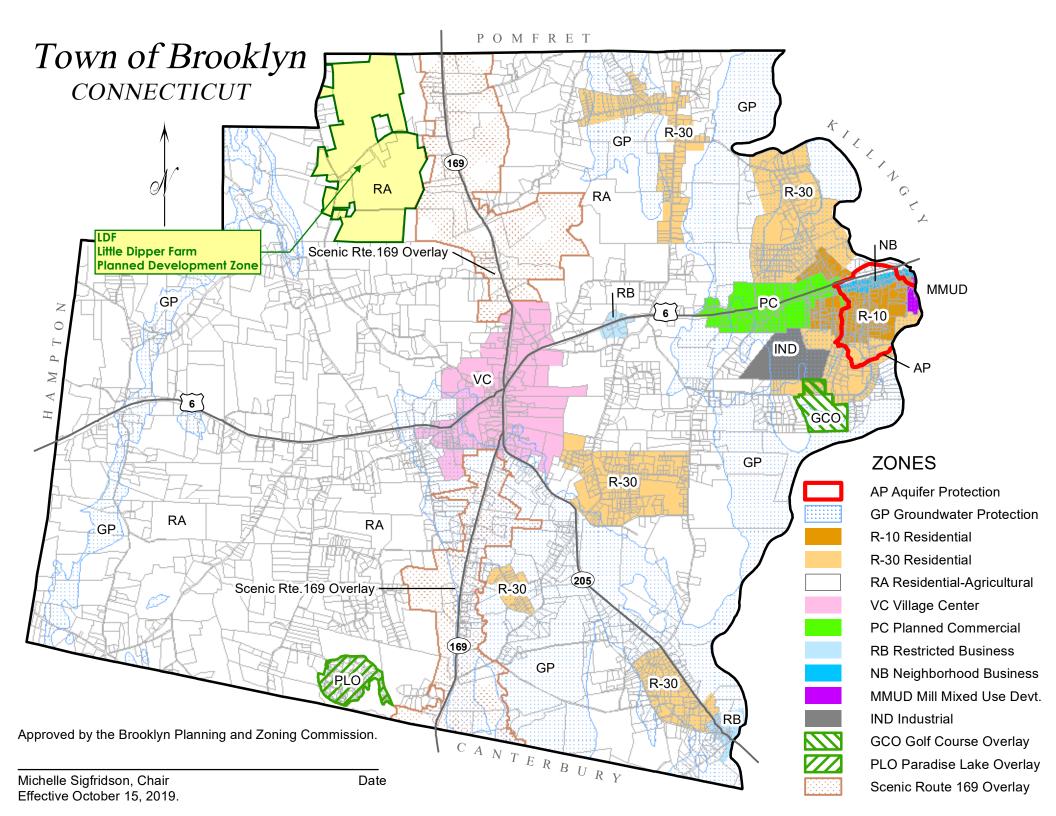
In conclusion, we find that based on current available data providing on-site sewer and water services are feasible for the proposed development.

Please contact us with any questions.

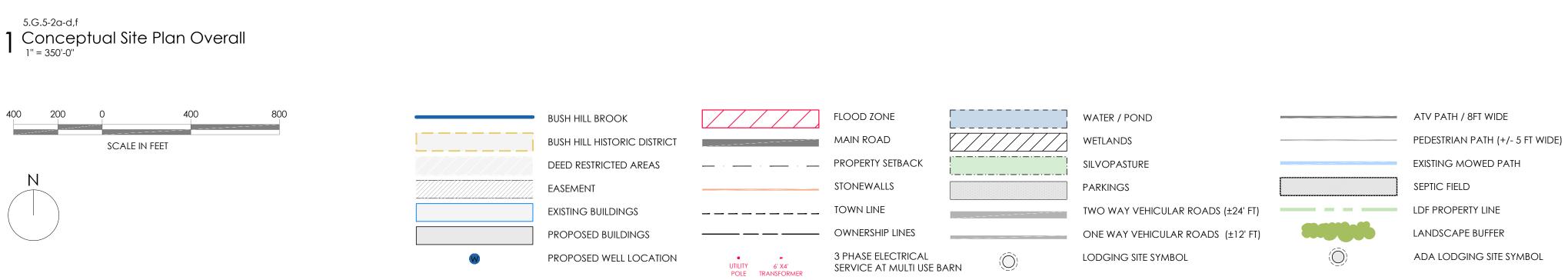
Sincerely,

20 Cha

Robert A. DeLuca, P.E.



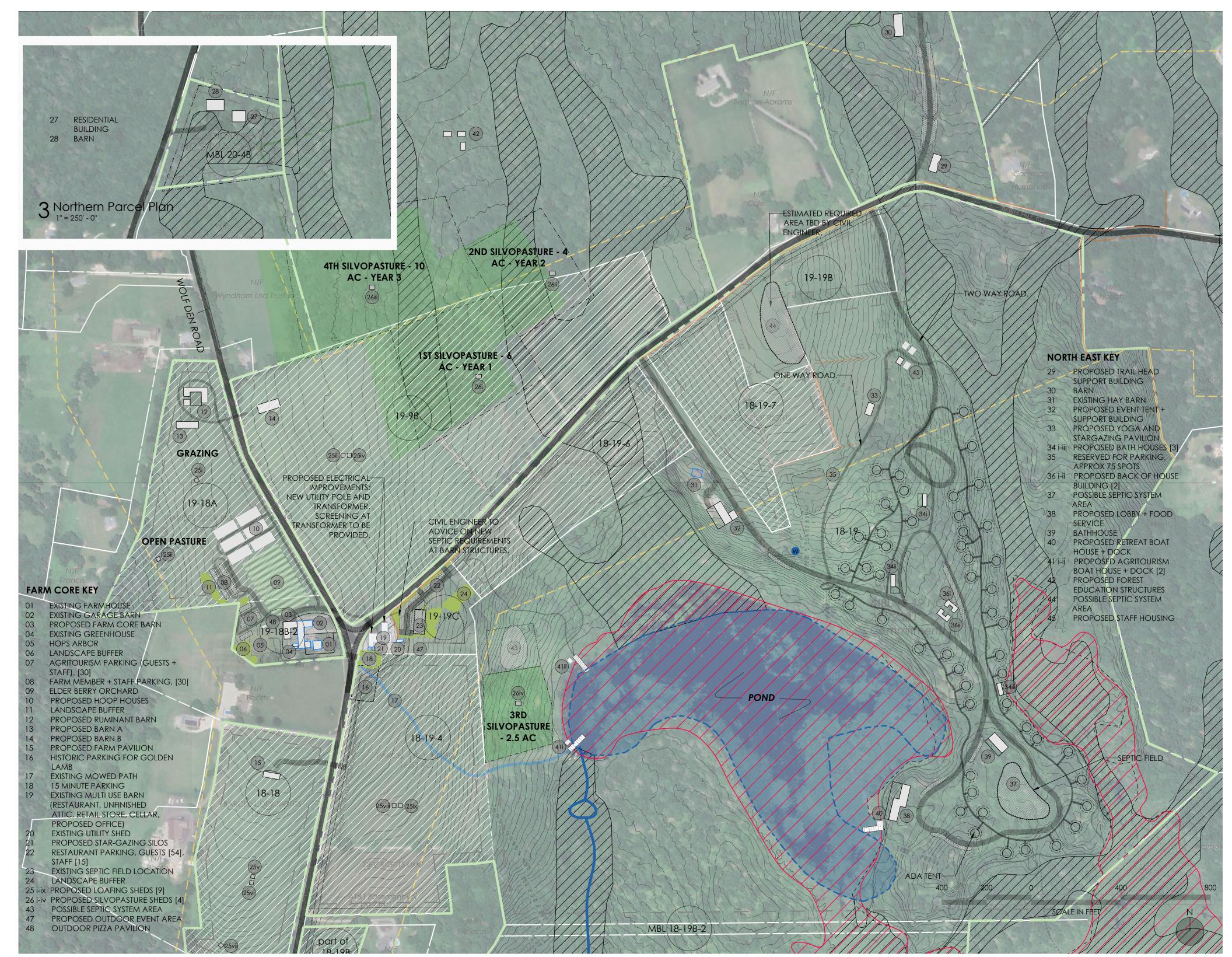




CONCEPTUAL SITE PLAN OVERALL - 1" = 350'-0"



SHELTER A01



5.G.5-2a-d,f

Conceptual Master Plan Sketch 1'' = 250'-0''

5.G.5-4a-e 2 Data Table

EXISTING ZONING DISTRICT - RA

RESIDENTIAL-AGRICULTURAL ZONE

PROPOSED ZONING DISTRICT - LDF

SPECIAL ZONING AREA - LITTLE DIPPER FARM

EXISTING USE AGRICULTURAL RESIDENTIAL

AGRICULTURAL, BOTH COMMERCIAL AND NON-COMMERCIAL AND LOW DENSITY RESIDENTIAL USES. NOW CHANGE TO EXISTING ZONING DIMENSIONAL STANDARDS BZR § 3.C

LEGEND:				
	BUSH HILL BROOK		FLOOD ZONE	
	BUSH HILL HISTORIC DISTRICT			7
	DEED RESTRICTED AREAS	· · · ·	PROPERTY SETBACK	
	EASEMENT		STONEWALLS	
	EXISTING BUILDINGS		TOWN LINE	_
	PROPOSED BUILDINGS		OWNERSHIP LINES	
•	PROPOSED WELL LOCATION	UTILITY 6' X4' POLE TRANSFORMER	3 PHASE ELECTRICAL SERVICE AT MULTI USE BARN	1

643 FT

513 FT

parking will serve non-RETREAT guests.

		WATER / POND		ATV PATH / 8FT WIDE
		WETLANDS		PEDESTRIAN PATH (+/- 5 FT WIDE)
BACK		SILVOPASTURE		EXISTING MOWED PATH
		PARKING		SEPTIC FIELD
		TWO WAY VEHICULAR ROADS ($\pm 24'$ FT)		LDF PROPERTY LINE
NES		ONE WAY VEHICULAR ROADS (±12' FT)	antiple	LANDSCAPE BUFFER
RICAL	BARN	LODGING SITE SYMBOL	$\langle \hat{\mathbb{O}} \rangle$	ADA LODGING SITE SYMBOL

TOTAL EXISTING LOT AREA (IN BROOKLYN CT):	534.42 Ac		PROPOSED) BUILDING	FLOOR AREA - AGRICULTURAL RESIDENTIAL	30,905 SF			TOTAL AGRITOURISM RETREAT LOT AREA
PARCEL(S) NO.	ACREAGE	FRONTAGE	PARCEL N			BLDG F.A.	COVERA	GE	LOCATED ON LOT(S):
18-18	11.80 Ac	1,146 FT							18-19
18-19	156.87 Ac	1,023 FT	19-18B	03	PROPOSED FARM CORE BARN	900 SF	900	SF	18-19B-2
			19-18A	12	PROPOSED RUMINANT BARN	5,080 SF	5,080	SF	
18-19B	77.25 Ac	500 FT	19-18A	13	PROPOSED BARN A	3,000 SF	3,000	SF	18-19B*
18-19B-2	2.30 Ac	N/A	19-9B	14	PROPOSED BARN B	3,000 SF	3,000	SF	*PARTIAL CT STATE DEVELOPMENT RESTRICTION ALONG WOLF DEN ROAD
18-19-4	16.53 AC	1,143 FT	VARIOUS	25i-ix	PROPOSED LOAFING SHEDS [9]	2925 SF	2,925	SF	APPROX. WETLAND AREA ON PARCELS 18-19, 18-19B-2, & 18-19B
18-19-6	8.93 Ac	1,213 FT	19-19B					ог с г	APPROX. AREA OF POND
18-19-7	8.38 AC	409 FT		26i-iv	PROPOSED SILVOPASTURE SHEDS [4]	4,000 SF	4,000	SГ	
19-9B	222.30 Ac	3,199 FT	20-4B	27	PROPOSED RESIDENTIAL HOUSE	4,000 SF	2,000	SF	PROPOSED NUMBER OF LODGING SITES
			20-4B	28	PROPOSED BARN C	4,000 SF	4,000	SF	
19-18A	12.97 Ac	1,151 FT	19-9B	30	PROPOSED BARN D	4,000 SF	4,000	SF	PARCEL No ID#
19-18B-2	2.86 AC	301 FT		I					18-19 PROPOSED LODGING SITES (900 SF)
19-19B	6.48 AC	817 FT	DROBOSEE			10 575 **			18-19 PROPOSED LODGING SITES (1,300 SF)

GENERAL NOTES:

- 1. Wetlands indicated reflect the National Wetlands Inventory as documented on Survey prepared by Archer Surveying LLC.
- 2. Proposed locations of Buildings, Tents, Paths, and Roads are conceptual and subject to further review and development with authorities having jurisdiction.
- 3. See Civil documents for information pertaining to provision of water, sewer, drainage, and other utilities (as per 5.G.5-2e.)

19-19C	3.26	Ac
20-4B	4.49	Ac

PRINCIPLE BUILDING SETBACKS		
MINIMUM REQUIRED FRONT YARD SETBACK	50	FT
MINIMUM REQUIRED SIDE YARD SETBACK	40	FT
MINIMUM REQUIRED REAR YARD SETBACK	40	FT
	35	FT
NOTE: ALL PROPOSED PRINCIPLE BUILDINGS SHALL COMPLY WITH SETBACK STANDAR MAXIMUM BUILDING HEIGHT.	DS A	AND

ACCESSORY BUILDING SETBACKS	
MINIMUM REQUIRED FRONT YARD SETBACK	50 FT
MINIMUM REQUIRED SIDE YARD SETBACK	20 FT
MINIMUM REQUIRED REAR YARD SETBACK	20 FT
MAXIMUM BUILDING HEIGHT	35 FT

NOTE: ALL PROPOSED ACCESSORY BUILDINGS SHALL COMPLY WITH SETBACK STANDARDS AND MAXIMUM BUILDING HEIGHT. WITH THE EXCEPTION OF THE STAR-GAZING SILO. SEE PROPOSED BUILDING AREA.

EXISTING BU	ILDING	G FLOOR AREA		20,747	SF		
PARCEL No	ID#			BLDG F.A.		COVERAGE	
19-18b	01	EXISITING FARMHOUSE		2,860	SF	1,430	SF
19-18b	02	EXISTING GARAGE BARN		4,264	SF	4,264	SF
19-18b	04	EXISTING GREENHOUSE		486	SF	486	SF
19-19C	19	EXISTING MULTI USE BARN		11,787	SF	5,650	SF
19-19C	19		RESTAURANT USE	3,500	SF		
19-19C	19		UNFINISHED ATTIC	2,200	SF		
19-19C	19		RETAIL STORE	437	SF		
19-19C	19		CELLAR	5,650	SF		
19-19C	20	EXISTING UTILITY SHED		350	SF	350	SF
18-19-6	31	EXISTING HAY BARN		1,000	SF	1,000	SF

NOTE: 1. BUILDING AREAS ARE APPROXIMATE, BASED ON APPRAISAL DOCUMENT. 2. THE CALCULATION OF FLOOR AREA SHALL NOT INCLUDE AREAS WHICH ARE LOCATED BELOW GRADE W/ TWO THIRDS OR MORE OF THE CLEAR HEIGHT BELOW THE AVERAGE GRADE.

CONCEPTUAL MASTER PLAN SKETCH - 1" = 250'-0"



PROPOSED B	UILDING	FLOOR AREA - AGRITOURISM	10,575	**		
PARCEL No	ID#		BLDG F.A.		COVERAGE	
18-18	15	PROPOSED FARM PAVILION	1,875	SF	1,875	ç
19-19C	19	EXISTING MULTI USE BARN	(See Existir Above)	ng Building	Area	
19-19C	19	EXISTING RESTAURANT USE	3,500	SF		
19-19C	19	EXISTING RETAIL STORE	437	SF		
19-19C	19	PROPOSED EVENT USE	3,000	SF		
19-19C	19	PROPOSED OFFICE USE	2,000	SF		
	21	PROPOSED STAR-GAZING SILOS*	1,200	SF	1,200	S
19-9B	29	PROPOSED TRAIL HEAD SUPPORT BUILDING	3,000	SF	3,000	S
18-19	41i-ii	PROPOSED AGRITOURISM BOAT HOUSE + DOCK [2]	1,800	SF	1,800	ç
19-9B	42	PROPOSED FOREST EDUCATION STRUCTURES	2,400	SF	2,400	Ś
19-18B	48	PROPOSED OUTDOOR PIZZA PAVILION	300	SF	300	ç
* STAR-GAZII	G SILO	WILL EXCEED 35' HEIGHT LIMIT				
** DOES NOT	TALLY E	XISTING USES				

* STAR-GAZII	NG SILO	WILL EXCEED 35' HEIGHT LIMIT				PROPOSED A	AGRICUL	TURAL PARKING	30 SPOTS	
** DOES NOT	TALLY E	XISTING USES				PARCEL No	ID#			
						19-18A	08	FARM MEMBER + STAFF	30	
ROPOSED B	UILDING	FLOOR AREA - AGRITOURISM RETREAT	78,650 SF			PROPOSED A	AGRITOU	RISM PARKING	139 SPOTS	
PARCEL No	ID#		BLDG F.A.	COVERAG	ε	PARCEL No	ID#			
18-19	32	PROPOSED EVENT TENT + SUPPORT BLDG	5,500 SF	5,500	SF	19-18B-2	07	AGRITOURISM GUESTS + STAFF	30	
8-19	34i-iii	PROPOSED BATH HOUSES [3]	3,600 SF	3,600	SF	19-19C	18	15 MINUTE PARKING	12	
8-19	36i-ii	PROPOSED BACK OF HOUSE BUILDING [2]	1,250 SF	1,250	SF	19-19C	22	RESTAURANT GUESTS	27	
8-19	38	PROPOSED LOBBY + FOOD SERVICE*	5,000 SF	5,000	SF	19-19C	22	RESTAURANT STAFF	10	
8-19	39	PROPOSED ALT EVENT TENT + SUPPORT BLDG	5,500 SF	5,500	SF	19-9B		TRAIL HEAD + OVERFLOW PARKING	60	
8-19	40	PROPOSED RETREAT BOAT HOUSE + DOCK	3,600 SF	3,600	SF					
18-19	45	PROPOSED STAFF HOUSING	3,200 SF	3,200	SF	PROPOSED A	AGRITOU	RISM RETREAT PARKING	123 SPOT	
18-19,		PROPOSED LODGING SITES	51,000 SF	51,000	SF	PARCEL No	ID#			
18-19B, 18-19B-2						18-19		RETREAT GUESTS	58	
	ı e is oper	n to RETREAT guests and the public. RETREAT guests	will use RETREAT parki	ng and additior	nal	18-19		RETREAT STAFF	15	
	•		1	0						

SF

SF SF SF SF

SF

PROPOSED APPROX IA	APERVIOUS AREAS (SITE WIDE)	623,072	SE
TROTOSED AFTROX. IN		023,072	31
ID#			
	PROPOSED BUILDING COVERAGE	184,610	SF
	PROPOSED PEDESTRIAN PATHS (+/- 5 FT WIDE)	64,020	SF
	PROPOSED TWO WAY VEHICULAR ROADS $(\pm 24' \text{ FT})$	210,504	SF
	PROPOSED ONE WAY VEHICULAR ROADS $(\pm 12' \text{ FT})$	17,136	SF
	PROPOSED DECKS	10,039	SF
	PROPOSED WORK-YARDS	32,771	SF
10	PROPOSED HOOP HOUSES	18,000	SF
33	PROPOSED YOGA AND STARGAZING PAVILION	1,000	SF
	PROPOSED SITE WIDE PARKING	84,992	SF
I			

	PROPOSED AGRICULTURAL PARKING					
_	PARCEL No	ID#				
_	19-18A	08	FARM MEMBER + STAFF	30		

LOBBY/ CHECK-IN

VISITOR PARKING

SHELTER

18-19

18-19



03.30.2022

20

30

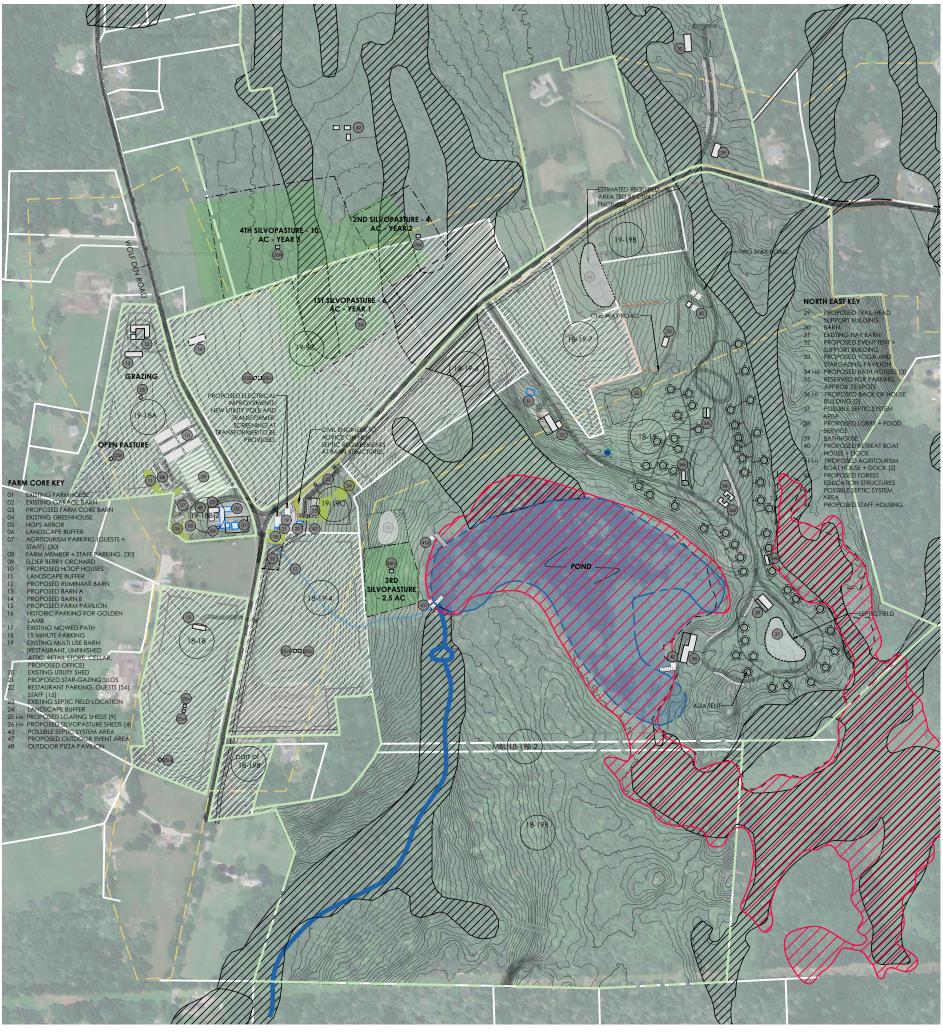
236.42 Ac

156.87 Ac 2.30 Ac 77.25 Ac

-2.46 Ac -47.62 Ac -22.80 Ac

50 SITES

35 15



5.G.5-2a-d,f Conceptual Master Plan Sketch 1" = 550'-0"

N 400 200 0 400 800 SCALE IN FEET

LEGEND:



SILVOPASTURE

BUSH HILL HISTORIC DISTRICT		PARKINGS
DEED RESTRICTED AREAS		TWO WAY VEHICULAR ROADS (±24' FT)
EASEMENT		CHE WAY VEHICULAR ROADS
EXISTING BUILDINGS		ATV PATH / 8FT WIDE
PROPOSED BUILDINGS		PEDESTRIAN PATH (+/- 5 FT WIDE)
FLOOD ZONE		EXISTING MOWED PATH
 MAIN ROAD	[]	SEPTIC FIELD
 PROPERTY SETBACK		LDF PROPERTY LINE
STONEWALLS		LANDSCAPE BUFFER
 TOWN LINE	۲	PROPOSED WELL LOCATION
 OWNERSHIP LINES	URETY & M POLE TRANSFORMER	3 PHASE ELECTRICAL SERVICE AT MULTI USE BARN
WATER / POND	Ô	LODGING SITE SYMBOL
WETLANDS	Ô	ADA LODGING SITE SYMBOL

CONCEPTUAL MASTER PLAN SKETCH - 1" = 550'-0"

Little Dipper Farm 499 Wolf Den Rd, Brooklyn, CT

SHELTER

A03a

EXISTING ZONING DISTRICT - RA

RESIDENTIAL-AGRICULTURAL ZONE

PROPOSED ZONING DISTRICT - LDF

SPECIAL ZONING AREA - LITTLE DIPPER FARM

EXISTING USE AGRICULTURAL RESIDENTIAL

AGRICULTURAL, BOTH COMMERCIAL AND NON-COMMERCIAL AND LOW DENSITY RESIDENTIAL USES. NOW CHANGE TO EXISTING ZONING DIMENSIONAL STANDARDS BZR § 3.C

TOTAL EXISTING LOT AREA (IN BROOKLYN CT):	534.42	Ac	
PARCEL(S) NO.	ACREAGE		FRONTAGE
18-18	11.80	Ac	1,146 FT
18-19	156.87	Ac	1,023 FT
18-19B	77.25	Ac	500 FT
18-19B-2	2.30	Ac	N/A
18-19-4	16.53	Ac	1,143 FT
18-19-6	8.93	Ac	1,213 FT
18-19-7	8.38	Ac	409 FT
19-9B	222.30	Ac	3,199 FT
19-18A	12.97	Ac	1,151 FT
19-18B-2	2.86	Ac	301 FT
19-19B	6.48	Ac	817 FT
19-19C	3.26	Ac	643 FT
20-4B	4.49	Ac	513 FT
PRINCIPLE BUILDING SETBACKS			
MINIMUM REQUIRED FRONT YARD SETBACK	50	FT	-
MINIMUM REQUIRED SIDE YARD SETBACK	40	FT	
MINIMUM REQUIRED REAR YARD SETBACK	40	FT	
	35	FT	
NOTE: ALL PROPOSED PRINCIPLE BUILDINGS SHALL COMPLY WITH SE MAXIMUM BUILDING HEIGHT.	TBACK STANDARDS /	AND	
ACCESSORY BUILDING SETBACKS			
	FO	ст	

MINIMUM REQUIRED FRONT YARD SETBACK	50	FT
MINIMUM REQUIRED SIDE YARD SETBACK	20	FT
MINIMUM REQUIRED REAR YARD SETBACK	20	FT
MAXIMUM BUILDING HEIGHT	35	FT

NOTE: ALL PROPOSED ACCESSORY BUILDINGS SHALL COMPLY WITH SETBACK STANDARDS AND MAXIMUM BUILDING HEIGHT. WITH THE EXCEPTION OF THE STAR-GAZING SILO. SEE PROPOSED BUILDING AREA.

EXISTING BU	ILDING	FLOOR AREA	20,747	SF			
PARCEL No	ID#			BLDG F.A.		COVERAGE	
19-18b	01	EXISITING FARMHOUSE		2,860	SF	1,430	SF
19-18b	02	EXISTING GARAGE BARN		4,264	SF	4,264	SF
19-18b	04	EXISTING GREENHOUSE		486	SF	486	SF
19-19C	19	EXISTING MULTI USE BARN		11,787	SF	5,650	SF
19-19C	19		RESTAURANT USE	3,500	SF		
19-19C	19		UNFINISHED ATTIC	2,200	SF		
19-19C	19		RETAIL STORE	437	SF		
19-19C	19		CELLAR	5,650	SF		
19-19C	20	EXISTING UTILITY SHED		350	SF	350	SF
18-19-6	31	EXISTING HAY BARN		1,000	SF	1,000	SF

NOTE: 1. BUILDING AREAS ARE APPROXIMATE, BASED ON APPRAISAL DOCUMENT. 2. THE CALCULATION OF FLOOR AREA SHALL NOT INCLUDE AREAS WHICH ARE LOCATED BELOW GRADE W/ TWO THIRDS OR MORE OF THE CLEAR HEIGHT BELOW THE AVERAGE GRADE.



PROPOSED B	JILDING	FLOOR AREA - AGRICULTURAL RESIDENTIAL	30,905	SF		
PARCEL No	ID#		BLDG F.A.		COVERAG	E
19-18B	03	PROPOSED FARM CORE BARN	900	SF	900	SF
19-18A	12	PROPOSED RUMINANT BARN	5,080	SF	5,080	SF
19-18A	13	PROPOSED BARN A	3,000	SF	3,000	SF
19-9B	14	PROPOSED BARN B	3,000	SF	3,000	SF
VARIOUS	25i-ix	PROPOSED LOAFING SHEDS [9]	2925	SF	2,925	SF
19-19B	26i-iv	PROPOSED SILVOPASTURE SHEDS [4]	4,000	SF	4,000	SF
20-4B	27	PROPOSED RESIDENTIAL HOUSE	4,000	SF	2,000	SF
20-4B	28	PROPOSED BARN C	4,000	SF	4,000	SF
19-9B	30	PROPOSED BARN D	4,000	SF	4,000	SF

PROPOSED B	UILDING	FLOOR AREA - AGRITOURISM	10,575	**		
PARCEL No	ID#		BLDG F.A.		COVERAC	θE
18-18	15	PROPOSED FARM PAVILION	1,875	SF	1,875	SF
19-19C	19	EXISTING MULTI USE BARN	(See Existir Above)	ng Buil	ding Area	
19-19C	19	EXISTING RESTAURANT USE	3,500	SF		
19-19C	19	EXISTING RETAIL STORE	437	SF		
19-19C	19	PROPOSED EVENT USE	3,000	SF		
19-19C	19	PROPOSED OFFICE USE	2,000	SF		
	21	PROPOSED STAR-GAZING SILOS*	1,200	SF	1,200	SF
19-9B	29	PROPOSED TRAIL HEAD SUPPORT BUILDING	3,000	SF	3,000	SF
18-19	41i-ii	PROPOSED AGRITOURISM BOAT HOUSE + DOCK [2]	1,800	SF	1,800	SF
19-9B	42	PROPOSED FOREST EDUCATION STRUCTURES	2,400	SF	2,400	SF
19-18B	48	PROPOSED OUTDOOR PIZZA PAVILION	300	SF	300	SF
* STAR-GAZIN	ig silo	WILL EXCEED 35' HEIGHT LIMIT				

** DOES NOT TALLY EXISTING USES

PROPOSED B		LOOR AREA - AGRITOURISM RETREAT	78,650	SF		
PARCEL No	ID#		BLDG F.A.		COVERAGE	
18-19	32	PROPOSED EVENT TENT + SUPPORT BLDG	5,500	SF	5,500	SF
18-19	34i-iii	PROPOSED BATH HOUSES [3]	3,600	SF	3,600	SF
18-19	36i-ii	PROPOSED BACK OF HOUSE BUILDING [2]	1,250	SF	1,250	SF
18-19	38	PROPOSED LOBBY + FOOD SERVICE*	5,000	SF	5,000	SF
18-19	39	PROPOSED ALT EVENT TENT + SUPPORT BLDG	5,500	SF	5,500	SF
18-19	40	PROPOSED RETREAT BOAT HOUSE + DOCK	3,600	SF	3,600	SF
18-19	45	PROPOSED STAFF HOUSING	3,200	SF	3,200	SF
18-19, 18-19B,		PROPOSED LODGING SITES	51,000	SF	51,000	SF

18-19B-2

*Food service is open to RETREAT guests and the public. RETREAT guests will use RETREAT parking and additional parking will serve non-RETREAT guests.

TOTAL AGRITOUR	RISM RETREAT LOT AREA	236.42	Ac
LOCATED ON LC	DT(S):		
	18-19	156.87	Ac
	18-19B-2	2.30	Ac
	18-19B*	77.25	Ac
*PARTIAL CT STAT	TE DEVELOPMENT RESTRICTION ALONG WOLF DEN ROAD	-2.46	Ac
APPROX. WETLA	ND AREA ON PARCELS 18-19, 18-19B-2, & 18-19B	-47.62	Ac
APPROX. AREA (OF POND	-22.80	Ac
PROPOSED NUM	BER OF LODGING SITES	50	SITES
PARCEL No ID#	¥		
18-19	PROPOSED LODGING SITES (900 SF)	35	
10-19			
18-19	PROPOSED LODGING SITES (1,300 SF)	15	
18-19	PROPOSED LODGING SITES (1,300 SF)	15 623,072	SF
18-19	OX. IMPERVIOUS AREAS (SITE WIDE)		SF
18-19 PROPOSED APPR	OX. IMPERVIOUS AREAS (SITE WIDE)		
18-19 PROPOSED APPR	OX. IMPERVIOUS AREAS (SITE WIDE)	623,072	SF
18-19 PROPOSED APPR	PROPOSED BUILDING COVERAGE	623,072 184,610 64,020	SF SF
18-19 PROPOSED APPR	PROPOSED BUILDING COVERAGE PROPOSED PEDESTRIAN PATHS (+/- 5 FT WIDE)	623,072 184,610 64,020 210,504	SF SF SF
18-19 PROPOSED APPR	PROPOSED BUILDING COVERAGE PROPOSED PEDESTRIAN PATHS (+/- 5 FT WIDE) PROPOSED TWO WAY VEHICULAR ROADS (±24' FT)	623,072 184,610 64,020 210,504	SF SF SF SF
18-19 PROPOSED APPR	PROPOSED BUILDING COVERAGE PROPOSED BUILDING COVERAGE PROPOSED PEDESTRIAN PATHS (+/- 5 FT WIDE) PROPOSED TWO WAY VEHICULAR ROADS (±24' FT) PROPOSED ONE WAY VEHICULAR ROADS (±12' FT)	623,072 184,610 64,020 210,504 17,136	SF SF SF SF SF
18-19 PROPOSED APPR	PROPOSED BUILDING COVERAGE PROPOSED BUILDING COVERAGE PROPOSED PEDESTRIAN PATHS (+/- 5 FT WIDE) PROPOSED TWO WAY VEHICULAR ROADS (±24' FT) PROPOSED ONE WAY VEHICULAR ROADS (±12' FT) PROPOSED DECKS	623,072 184,610 64,020 210,504 17,136 10,039	SF SF SF SF SF SF
PROPOSED APPR	PROPOSED BUILDING COVERAGE PROPOSED BUILDING COVERAGE PROPOSED PEDESTRIAN PATHS (+/- 5 FT WIDE) PROPOSED TWO WAY VEHICULAR ROADS (±24' FT) PROPOSED ONE WAY VEHICULAR ROADS (±12' FT) PROPOSED DECKS PROPOSED WORK-YARDS PROPOSED HOOP HOUSES	623,072 184,610 64,020 210,504 17,136 10,039 32,771	SF SF SF SF SF SF SF

PROPOSED AGRICULTURAL PARKING

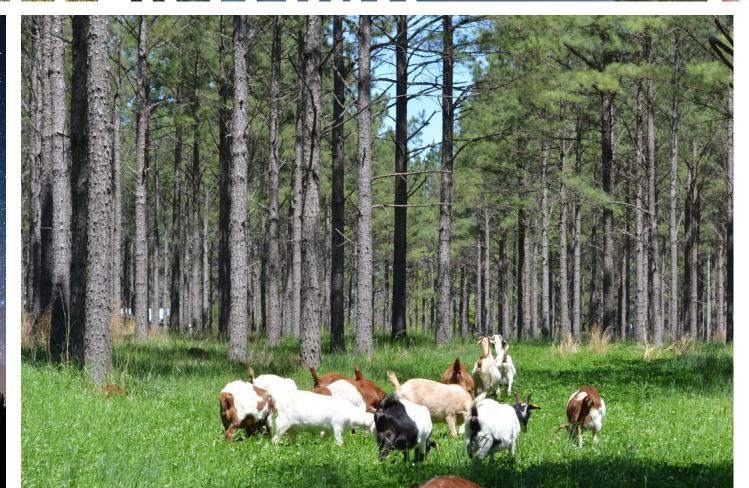
PARCEL No	ID#		
19-18A	08	FARM MEMBER + STAFF	30

PROPOSED A	GRITOU	RISM PARKING	139 SPOTS
PARCEL No	ID#		
19-18B-2	07	AGRITOURISM GUESTS + STAFF	30
19-19C	18	15 MINUTE PARKING	12
19-19C	22	RESTAURANT GUESTS	27
19-19C	22	RESTAURANT STAFF	10
19-9B		TRAIL HEAD + OVERFLOW PARKING	60
	•		

PROPOSED AGRITOURISM RETREAT PARKING		123 SPOTS
PARCEL No	ID#	
18-19	RETREAT GUESTS	58
18-19	RETREAT STAFF	15
18-19	LOBBY/ CHECK-IN	20
18-19	VISITOR PARKING	30

CONCEPTUAL MASTER PLAN SKETCH - DATA TABLE		03.30.2022
Little Dipper Farm 499 Wolf Den Rd, Brooklyn, CT	SHELTER	A03b

ARCHITECTURAL PHOTOGRAPHIC SAMPLES FOR PDZ





EXISTING FARM CORE

FARMHOUSE, GARAGE BARN, GREENHOUSE, MULTI-USE BARN, UTILITY SHED



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





FARM EXPANSION

FARM CORE BARN, RUMINANT BARN, AGRICULTURAL BARNS A-D



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT

SHELTER



FARM EXPANSION

FARM CORE BARN, RUMINANT BARN, AGRICULTURAL BARNS A-D



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





FARM EXPANSION HOOP HOUSES, HIGH TUNNELS



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT

SHELTER



FARM EXPANSION

HOOP HOUSES, HIGH TUNNELS



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





FARM EXPANSION STONE PIZZA OVEN



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT

SHELTER

FARM EXPANSION

LOAFING SHEDS, SILVOPASTURE SHEDS



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





FARM EXPANSION

LOAFING SHEDS, SILVOPASTURE SHEDS



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





FARM EXPANSION PORTABLE ELECTRICAL FENCE, PERMANENT FENCING



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT









ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT

SHELTER

03.30.2022

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ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





AGRITOURISM
STAR GAZING SILO



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





AGRITOURISM FOREST EDUCATION STRUCTURES



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





AGRITOURISM

YOGA AND STAR-GAZING PAVILION



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





LODGING SITES



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





AGRITOURISM / RETREAT EVENT TENT + SUPPORT BUILDING



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT



03.30.2022

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BATH HOUSES



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





AGRITOURISM / RETREAT BATH HOUSES



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





AGRITOURISM / RETREAT BOAT HOUSE + DOCK



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

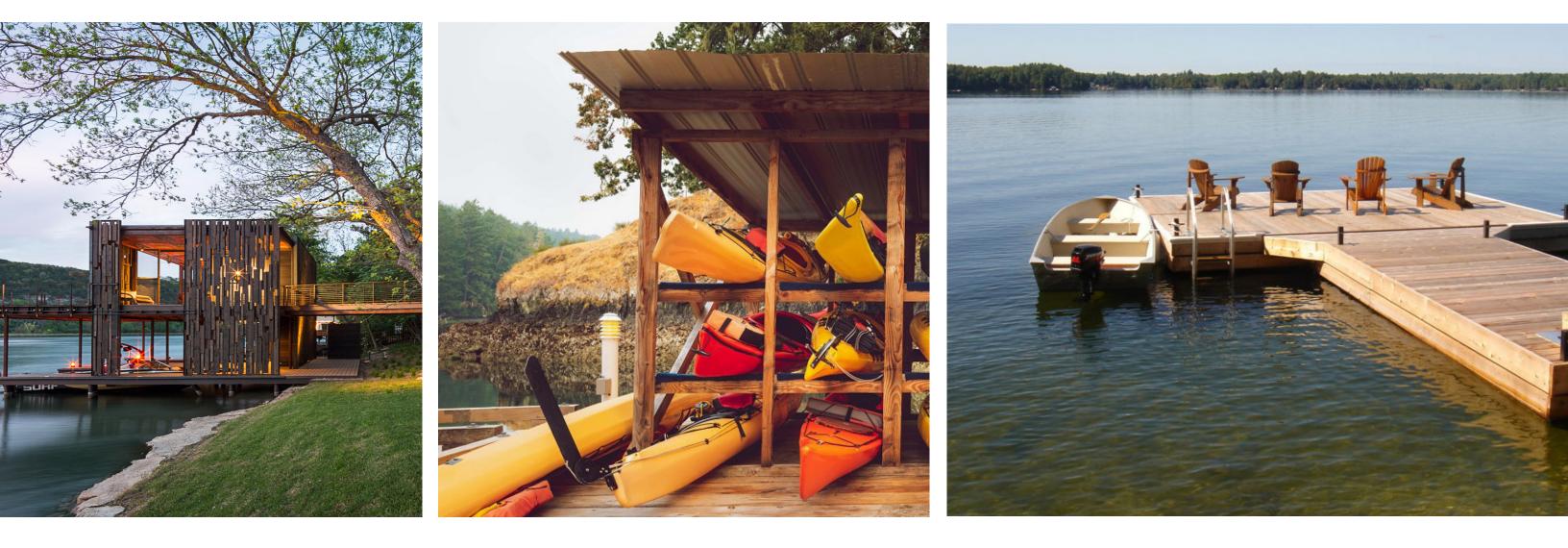
Little Dipper Farm Brooklyn, CT





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AGRITOURISM / RETREAT BOAT HOUSE + DOCK



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





BACK OF HOUSE BUILDINGS, SUPPORT BUILDINGS



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





BACK OF HOUSE BUILDINGS, SUPPORT BUILDINGS



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





BACK OF HOUSE BUILDINGS, SUPPORT BUILDINGS



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT

SHELTER



MOBILE GUEST UNITS / STAFF HOUSING



ARCHITECTURAL PHOTOGRAPHIC SAMPLES

Little Dipper Farm Brooklyn, CT





Traffic Impact Study Little Dipper Farm Brooklyn, Connecticut April 2022

This study examines the traffic impact of Little Dipper Farm in Brooklyn, Connecticut. Peak-hour site trips generated by improvement on the site, roadway traffic volumes, and traffic capacity at site driveways were reviewed. For the purpose of this traffic study, 2023 was assumed to be the year during which improvement is built and the facilities are occupied.

I. Summary

- The proposed improvement is estimated to generate 23, 53, and 92 trips for respective weekday morning, weekday afternoon, and Saturday midday peak hours.
- The traffic impact of the development will be limited. When the improved facilities are occupied, all traffic approaches at site driveways will operate at favorable LOS A during the three peak hours. The development will not create traffic hazards and will not block or hamper the circulation pattern of adjacent roadways.

II. Project Description

The proposed improvement will include parcels near the intersection of Wolf Den Road and Bush Hill Road. Next to the farm, Wolf Den Road and Bush Hill Road measure about 16 feet in width. The posted speed limit on Bush Hill Road is 30 mph. The posted speed limit on Wolf Den Road near the farm is 25 mph. Further north, the speed limit on Wolf Den Road changes to 30 mph.

III. Traffic Volumes

Automatic traffic count data were collected on Wolf Den Road and Bush Hill Road on weekdays and on a Saturday in January 2022. Seasonal adjustment factors based on CTDOT data and annual traffic growth rate of 0.7 percent recommended by CTDOT were applied to peak-hour traffic volumes from the counts to generate 2023 peak summer month background volumes for area roadways.



IV. Future Traffic Conditions

Site trips during the peak hours were estimated based on proposed uses (Table 1). The development will likely generate the most peak-hour trips of 92 vehicles during the Saturday midday peak hour.

l able 1	ESI	Imated	<u>d Site</u>	rips (\	<u>vpn)</u>		
	Wee	kday	Wee	kday	Saturday		
	Mornir	ng Peak	After	noon	Midda	y Peak	
	Hour (7	7:00 am-	Peak	Hour	Hour	(12:00	
Driveway #	8:00 am)		(4:00 p	m-5:00	pm-1:00 pm)		Note
	Entry	Exit	Entry	Exit	Entry	Exit	
#8	0	1	1	0	1	1	Residential building and barn
#7	0	3	3	0	1	1	Barns
#1	5	0	0	5	10	5	30 parking spaces, guests and staff
#10	1	0	0	1	1	1	Farm pavilion
#2	5	0	0	5	10	5	Existing farm road, 15-min parking
#3	1	0	3	3	10	5	Restaurant parking (37 spaces)
#4	1	0	3	3	10	5	Restaurant parking (37 spaces)
#5	2	2	5	5	5	5	Camping
#6	0	0	5	5	5	5	Camping
#9	2	0	3	3	3	3	Barn, storage, arrival, and parking
Sum	17	6	23	30	56	36	

Table 1Estimated Site Trips (vph)

vph Vehicles per hour

V. Traffic Capacity Analysis

To assess the quality of traffic flow, intersection capacity analysis was conducted for the future no-build and future build traffic conditions. Capacity analysis provides an indication of how well roadway facilities serve the traffic demands placed upon them. *Synchro 10*, a software package that includes the evaluation criteria of the 2000 *Highway Capacity Manual (HCM 2000)*, was used to analyze the intersections.

Level of service (LOS) is the term used to describe the different operating conditions that occur on a given roadway segment or intersection under various traffic conditions. It is a qualitative measure of the effects of a number of factors including roadway geometry, speed, travel delay, freedom to maneuver, and safety. Six levels of service can be defined for each type of facility. Each level of service (LOS) is given a letter designation from A to F, with LOS A representing the best operating conditions and LOS F representing the worst.

LOS at intersection is measured in terms of average control delay. For signalized intersections and all-way stop-controlled intersections, the analysis considers the operation of all traffic entering the intersection, and an overall condition is reported in addition to individual movements. For two-way stop-controlled (TWSC) intersections where side street traffic has to stop for main street traffic, the analysis assumes that

through traffic on the main street is not affected by traffic on side streets. Thus, LOS is calculated for the main street left-turn and side street approaches, and no overall intersection LOS is defined for TWSC intersections. Table 2 presents the LOS criteria for signalized and unsignalized intersections as defined in the HCM 2000.

Level-of-Service (LOS)	Signalized Delay Range (Average Control Delay, in sec/veh)	Unsignalized Delay Range (Average Control Delay in sec/veh)
Α	≤ 10	≤ 10
В	> 10 and ≤ 20	> 10 and ≤ 15
С	> 20 and ≤ 35	> 15 and ≤ 25
D	> 35 and ≤ 55	> 25 and ≤ 35
E	> 55 and ≤ 80	> 35 and ≤ 50
F	> 80 ual (Exhibits 16-2 and 17-2)	> 50

Table 2 LOS Criteria for Signalized and Unsignalized Intersections

Table 3 that follows shows the capacity analysis results for the analyzed intersections under the 2023 build traffic conditions. During the three peak hours, all traffic movements at site driveways will operate at favorable LOS A with minimal traffic delays. The detailed output sheets are attached to this report.

Table 3 Capacity Analyses for	Bulla Cond	tions	
	20	23 Build Conditio	ns
Intersection	Weekday Morning Peak Hour of Adjacent Streets	Weekday Afternoon Peak Hour of Adjacent Streets	Saturday Midday Peak Hour of Adjacent Streets
	LOS	LOS	LOS
Bush Hill Road and Driveway #9 (Unsignalized)			
EB Bush Hill Road	A	A	A
SB Driveway #9	A	A	A
Bush Hill Road and Driveway #6 (Unsignalized)			
WB Bush Hill Road	A	A	A
NB Driveway #6	A	A	A
Bush Hill Road and Driveway #5 (Unsignalized)			
WB Bush Hill Road	A	A	A
NB Driveway #5	A	A	A
Bush Hill Road and Driveway #4 (Unsignalized)			
WB Bush Hill Road	A	A	A
NB Driveway #4	A	A	A
Bush Hill Road and Driveway #3 (Unsignalized)			
WB Bush Hill Road	A	A	A
NB Driveway #3	A	A	A
Wolf Den Road and Driveway #2 (Unsignalized)			
WB Driveway #2	A	А	A
SB Wolf Den Road	A	A	A
Wolf Den Road and Driveway #10 (Unsignalized)			
EB Driveway #10	A	A	A
NB Wolf Den Road	A	A	A
Wolf Den Road and Driveway #1 (Unsignalized)			
EB Driveway #1	A	A	A
NB Wolf Den Road	A	A	A
Wolf Den Road and Driveway #7 (Unsignalized)			
EB Driveway #7	A	A	A
NB Wolf Den Road	A	A	A
Wolf Den Road and Driveway #8 (Unsignalized)			
WB Driveway #8	A	A	A
SB Wolf Den Road	A	A	A
EB Eastbound WB Westbound			

Table 3 Capacity Analyses for Build Condition

WBWestboundNBNorthboundSBSouthboundLOSLevel of Service

VI. Conclusions

Area traffic operation was analyzed for improvement at Little Dipper Farm under 2023 build traffic conditions. When the improvement is built and the facilities are occupied, all site driveways will operate at favorable LOS A. The traffic impact of the improvement at Little Dipper Farm will be limited and will be accommodated by existing roadways.

Kermit Hua

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Technical Appendices

03/06/2019

CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF POLICY & PLANNING - ROADWAY INFORMATION SYSTEMS TRAFFIC DATA COLLECTION & VERIFICATION SECTION

FACTORS FOR EXPANDING 24-HOUR COUNTS TO ANNUAL AVERAGE DAILY TRAFFIC VOLUMES (BASED ON 2018 CONTINUOUS COUNT STATION DATA)

GROUP - 1 * * INTERSTATE * *

STATION(S): 7, 12, 24, 30, 31, 32, 53, 54

AVG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY	1.08	1.03	1.21	1.41
FEBRUARY	1.04	0.96	1.13	1.45
MARCH	1.05	0.93	1.05	1.21
APRIL	0.99	0.91	1.03	1.17
MAY	0.94	0.83	0.98	1.10
JUNE	0.95	0.90	0.99	1.08
JULY	0.95	0.91	0.97	1.08
AUGUST	0.94	0.86	0.99	1.06
SEPTEMBER	0.99	0.89	0.99	1.08
OCTOBER	0.98	0.90	1.00	1.12
NOVEMBER	0.98	0.98	1.03	1.13
DECEMBER	1.00	0.96	1.04	1.22

GROUP - 2 * * RURAL * *

STATION(S): 4, 10, 16, 20, 50, 51

AVG	. WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY	1.12	1.08	1.17	1.48
FEBRUARY	1.12	1.05	1.16	1.55
MARCH	1.08	1.04	1.06	1.32
APRIL	1.05	0.95	0.94	1.29
MAY	0.95	0.89	0.95	1.04
JUNE	0.91	0.80	0.87	0.95
JULY	0.93	0.84	0.87	0.98
AUGUST	0.89	0.83	0.90	0.93
SEPTEMBER	0.97	0.88	0.91	1.02
OCTOBER	0.98	0.88	0.97	1.08
NOVEMBER	1.00	1.02	1.09	1.21
DECEMBER	1.08	1.09	1.11	1.29

GROUP - 3 ** INTERSTATE **

STATION(S): 27 (I-84 FROM ROUTE 195 TO MASS. STATE LINE)

	AVG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY		1.02	1.10	1.25	0.99
FEBRUARY	ſ	0.86	0.81	1.02	1.22
MARCH		1.46	0.91	0.94	0.93
APRIL		1.22	0.96	1.00	1.00
MAY		1.07	0.73	0.99	0.90
JUNE		1.04	0.84	0.96	0.71
JULY		0.98	0.84	0.80	0.74
AUGUST		0.81	0.75	0.89	0.79
SEPTEMBE	ER	1.11	1.09	1.13	0.81
OCTOBER		1.04	1.06	1.30	0.99
NOVEMBE	R	1.26	1.24	1.15	0.64
DECEMBE	R	1.14	0.33	0.43	0.79

03/06/2019

CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF POLICY & PLANNING - ROADWAY INFORMATION SYSTEMS TRAFFIC MONITORING & DATA ANALYSIS SECTION

FACTORS FOR EXPANDING 24-HOUR COUNTS TO ANNUAL AVERAGE DAILY TRAFFIC VOLUMES (BASED ON 2018 CONTINUOUS COUNT STATION DATA)

GROUP - 4 ** URBAN **

STATION(S): 8, 9, 11, 15, 17, 22, 23, 28, 47, 48, 52

A	VG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY		1.03	1.00	1.18	1.46
FEBRUARY		1.03	0.95	1.14	1.49
MARCH		0.97	0.94	1.07	1.30
APRIL		0.98	0.90	1.03	1.26
MAY		0.92	0.83	1.01	1.21
JUNE		0.91	0.85	1.01	1.15
JULY		0.95	0.89	1.06	1.22
AUGUST		0.95	0.89	1.09	1.23
SEPTEMBER		0.96	0.88	1.03	1.20
OCTOBER		0.95	0.86	1.05	1.16
NOVEMBER		0.97	0.97	1.08	1.27
DECEMBER		0.99	0.96	1.06	1.24

GROUP - 5 * *NORTHWEST RECREATIONAL * *

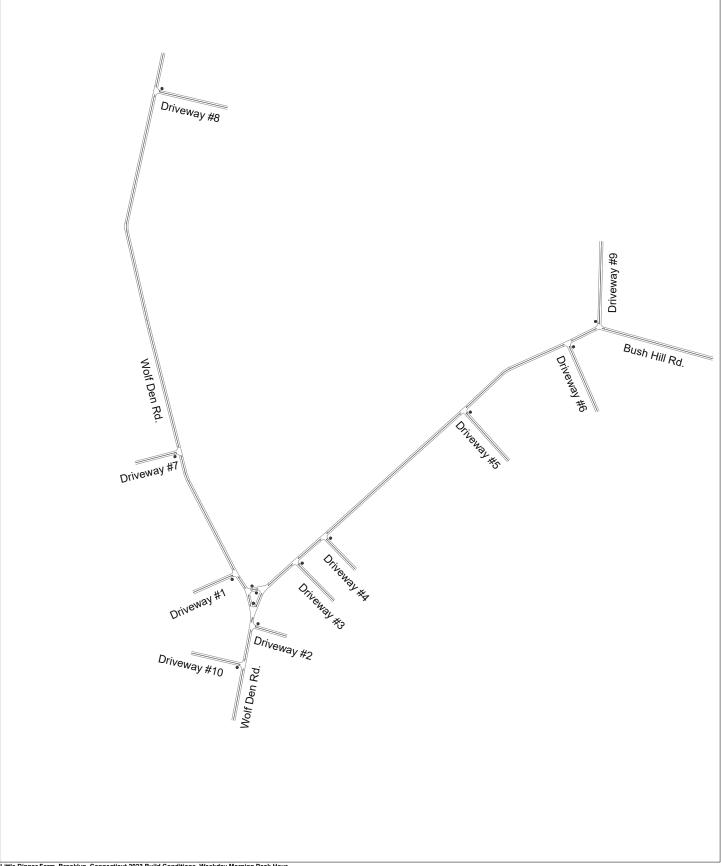
STATION(S): 1 (Station 18 not available on 2018)

A	AVG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY		1.29	1.18	1.05	1.21
FEBRUARY		1.24	1.10	1.02	1.34
MARCH		1.28	1.06	1.14	1.24
APRIL		1.04	0.88	0.96	0.85
MAY		1.00	0.83	0.78	0.80
JUNE		0.96	0.80	0.79	0.77
JULY		0.91	0.80	0.71	0.61
AUGUST		0.94	0.75	0.76	0.71
SEPTEMBER	२	0.99	0.85	0.69	0.73
OCTOBER		0.95	0.71	0.69	0.68
NOVEMBER		1.15	1.05	1.08	1.06
DECEMBER		1.13	1.11	1.09	1.25

GROUP - 6 ** SOUTHEAST RECREATIONAL **

STATION(S): 5, 33, 44, 46

ÁV	G. WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY	1.24	1.08	1.05	1.22
FEBRUARY	1.17	1.00	0.98	1.21
MARCH	1.19	0.98	0.93	1.06
APRIL	1.13	0.91	0.86	1.00
MAY	1.04	0.85	0.84	0.92
JUNE	1.00	0.80	0.81	0.88
JULY	0.91	0.77	0.75	0.79
AUGUST	0.92	0.75	0.77	0.80
SEPTEMBER	1.07	0.89	0.84	0.92
OCTOBER	1.10	0.89	0.93	0.98
NOVEMBER	1.17	0.97	0.93	1.04
DECEMBER	1.16	1.00	0.97	1.15



Little Dipper Farm, Brooklyn, Connecticut 2023 Build Conditions, Weekday Morning Peak Hour KWH Enterprise, LLC

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04/10/2022

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Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		۰	¢Î		¥	
Traffic Volume (veh/h)	1	21	12	1	0	0
Future Volume (Veh/h)	1	21	12	1	0	0
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	23	13	1	0	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	14				38	14
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	14				38	14
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				100	100
cM capacity (veh/h)	1604				973	1067
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	24	14	0			
Volume Left	1	0	0			
Volume Right	0	1	0			
cSH	1604	1700	1700			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.3	0.0	0.0			
Lane LOS	А		А			
Approach Delay (s)	0.3	0.0	0.0			
Approach LOS			А			
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utiliz	zation		6.7%	IC	U Level o	of Service
Analysis Period (min)			15			
			10			

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4			<u>بورار</u>	Y	
Traffic Volume (veh/h)	22	0	0	12	0	0
Future Volume (Veh/h)	22	0	0	12	0	0
Sign Control	Free	-	-	Free	Stop	-
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	24	0.72	0	13	0.72	0
Pedestrians	£ .	0	0	10	Ū	Ū
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)	NULE			NULE		
Upstream signal (ft)				246		
				240		
pX, platoon unblocked			24		27	24
vC, conflicting volume			24		37	24
vC1, stage 1 conf vol						
vC2, stage 2 conf vol			24		27	24
vCu, unblocked vol			24		37	24
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)			2.2		2.5	0.0
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	100
cM capacity (veh/h)			1591		975	1052
Direction, Lane #	EB 1	WB 1	NB 1			
Volume Total	24	13	0			
Volume Left	0	0	0			
Volume Right	0	0	0			
cSH	1700	1591	1700			
Volume to Capacity	0.01	0.00	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	0.0	0.0			
Lane LOS			А			
Approach Delay (s)	0.0	0.0	0.0			
Approach LOS			А			
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utiliz	ration		6.7%		U Level o	of Sorvico
	.auvii			IC.	O Level (I SEIVICE
Analysis Period (min)			15			

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Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	Y		^			با
Traffic Volume (veh/h)	1	1	21	1	1	11
Future Volume (Veh/h)	1	1	21	1	1	11
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	1	23	1	1	12
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)			None			None
Upstream signal (ft)						917
pX, platoon unblocked						717
vC, conflicting volume	38	24			24	
vC1, stage 1 conf vol	50	24			24	
vC2, stage 2 conf vol						
vCu, unblocked vol	38	24			24	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.4	0.2			4.1	
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	974	1053			1591	
civi capacity (venin)	974				1091	
Direction, Lane #	NW 1	NE 1	SW 1			
Volume Total	2	24	13			
Volume Left	1	0	1			
Volume Right	1	1	0			
cSH	1012	1700	1591			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.6	0.0	0.6			
Lane LOS	А		А			
Approach Delay (s)	8.6	0.0	0.6			
Approach LOS	А					
Intersection Summary						
Average Delay			0.6			
Intersection Capacity Utili	zation		13.3%			of Service
	Zation			IC	U Level (JI Selvice
Analysis Period (min)			15			

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Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	¥		¢Î			۰
Traffic Volume (veh/h)	0	0	22	0	1	11
Future Volume (Veh/h)	0	0	22	0	1	11
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	24	0	1	12
Pedestrians		-		-		
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)			110110			1.0110
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	38	24			24	
vC1, stage 1 conf vol	00	21			21	
vC2, stage 2 conf vol						
vCu, unblocked vol	38	24			24	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.1	0.2				
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	974	1052			1591	
Direction, Lane #	NW 1	NE 1	SW 1		1071	
Volume Total	0	24	13			
Volume Left	0	0	1			
Volume Right	0	0	0			
cSH	1700	1700	1591			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0.00	0.01	0.00			
Control Delay (s)	0.0	0.0	0.6			
Lane LOS	0.0 A	0.0	A			
Approach Delay (s)	0.0	0.0	0.6			
Approach LOS	0.0 A	0.0	0.0			
	A					
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utiliz	zation		6.7%	IC	U Level o	of Service
Analysis Period (min)			15			
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Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	¥		÷			<u>بانان</u>
Traffic Volume (veh/h)	0	0	22	0	1	10
Future Volume (Veh/h)	0	0	22	0	1	10
Sign Control	Stop	U	Free	Ū		Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0.72	0.72	24	0.72	1	11
Pedestrians	0	U	27	U	1	11
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)			Mana			News
Median type			None			None
Median storage veh)						07(
Upstream signal (ft)						276
pX, platoon unblocked						
vC, conflicting volume	37	24			24	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	37	24			24	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	975	1052			1591	
Direction, Lane #	NW 1	NE 1	SW 1			
Volume Total	0	24	12			
Volume Left	0	0	1			
Volume Right	0	0	0			
cSH	1700	1700	1591			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	0.0	0.6			
Lane LOS	А		A			
Approach Delay (s)	0.0	0.0	0.6			
Approach LOS	A					
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utiliz	ration		6.7%	IC	Ulevelo	of Service
Analysis Period (min)			15	10	O LOVOI (
			15			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		1 2			<u>स</u>
Traffic Volume (veh/h)	0	0	29	3	2	16
Future Volume (Veh/h)	0	0	29	3	2	16
Sign Control	Stop		Free	-		Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	32	3	2	17
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						85
pX, platoon unblocked						
vC, conflicting volume	54	34			35	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	54	34			35	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	952	1040			1576	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	0	35	19			
Volume Left	0	0	2			
Volume Right	0	3	0			
cSH	1700	1700	1576			
Volume to Capacity	0.00	0.02	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	0.0	0.8			
Lane LOS	А		А			
Approach Delay (s)	0.0	0.0	0.8			
Approach LOS	А					
Intersection Summary						
Average Delay			0.3			
Intersection Capacity Utiliz	zation		6.7%	IC	U Level o	of Service
Analysis Period (min)			15			
			10			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			ę	4Î	
Traffic Volume (veh/h)	0	0	1	32	16	0
Future Volume (Veh/h)	0	0	1	32	16	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	1	35	17	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)				110110	10110	
Upstream signal (ft)					303	
pX, platoon unblocked					000	
vC, conflicting volume	54	17	17			
vC1, stage 1 conf vol		17	17			
vC2, stage 2 conf vol						
vCu, unblocked vol	54	17	17			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	U.1	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	954	1062	1600			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	0	36	17			
Volume Left	0	1	0			
Volume Right	0	0	0			
cSH	1700	1600	1700			
Volume to Capacity	0.00	0.00	0.01			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	0.2	0.0			
Lane LOS	А	А				
Approach Delay (s)	0.0	0.2	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			0.1			
Intersection Capacity Utiliz	zation		6.7%	10	CU Level o	of Service
Analysis Period (min)			15			
Analysis Penou (IIIIII)			10			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			ب ا	¢Î	
Traffic Volume (veh/h)	0	0	5	8	18	0
Future Volume (Veh/h)	0	0	5	8	18	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	5	9	20	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)				110110	110110	
Upstream signal (ft)				141		
pX, platoon unblocked						
vC, conflicting volume	39	20	20			
vC1, stage 1 conf vol	07	20	20			
vC2, stage 2 conf vol						
vCu, unblocked vol	39	20	20			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	0.4	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	970	1058	1596			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	0	14	20			
Volume Left	0	5	0			
Volume Right	0	0	0			
cSH	1700	1596	1700			
Volume to Capacity	0.00	0.00	0.01			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	2.6	0.0			
Lane LOS	А	А				
Approach Delay (s)	0.0	2.6	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			1.1			
Intersection Capacity Utili	zation		8.2%	10	CU Level o	of Service
Analysis Period (min)	201011		15			
			10			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			ų	4Î	
Traffic Volume (veh/h)	0	3	0	8	15	0
Future Volume (Veh/h)	0	3	0	8	15	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	3	0	9	16	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)				110110	110/10	
Upstream signal (ft)				985		
pX, platoon unblocked				700		
vC, conflicting volume	25	16	16			
vC1, stage 1 conf vol	20	10	10			
vC2, stage 2 conf vol						
vCu, unblocked vol	25	16	16			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	.	0.2	т. 1			
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	991	1063	1602			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	3	9	16			
Volume Left	0	0	0			
Volume Right	3	0	0			
cSH	1063	1602	1700			
Volume to Capacity	0.00	0.00	0.01			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.4	0.0	0.0			
Lane LOS	А					
Approach Delay (s)	8.4	0.0	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			0.9			
Intersection Capacity Utili	ization		13.3%	10	CU Level o	of Service
Analysis Period (min)	12011011		15.570			
Analysis Fenou (IIIII)			10			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		<u>با المار</u>			<u>بر</u>
Traffic Volume (veh/h)	1	0	8	0	0	14
Future Volume (Veh/h)	1	0	8	0	0	14
Sign Control	Stop	-	Free	-	-	Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	0	9	0	0	15
Pedestrians	·	Ű		Ŭ	Ŭ	10
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)			110110			110110
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	24	9			9	
vC1, stage 1 conf vol	2.	,			,	
vC2, stage 2 conf vol						
vCu, unblocked vol	24	9			9	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.1	0.12				
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	992	1073			1611	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	1	9	15			
Volume Left	1	0	0			
Volume Right	0	0	0			
cSH	992	1700	1611			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0.00	0.01	0.00			
Control Delay (s)	8.6	0.0	0.0			
Lane LOS	0.0 A	0.0	0.0			
Approach Delay (s)	8.6	0.0	0.0			
Approach LOS	0.0 A	0.0	0.0			
	А					
Intersection Summary						
Average Delay			0.3			
Intersection Capacity Utiliz	ation		13.3%	IC	U Level of	of Service
Analysis Period (min)			15			

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Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- स्	<u>اطیہ</u>		¥	
Traffic Volume (veh/h)	1	5 14	9	2	1	2
Future Volume (Veh/h)	1	14	9	2	1	2
Sign Control	· .	Free	Free	_	Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	15	10	2	1	2
Pedestrians		10	10	-		-
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)		NONE	None			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	12				28	11
vC1, stage 1 conf vol	12				20	11
vC2, stage 2 conf vol						
vCu, unblocked vol	12				28	11
	4.1				6.4	6.2
tC, single (s)	4.1				0.4	0.2
tC, 2 stage (s)	2.2				3.5	3.3
tF (s)	100				100	3.3 100
p0 queue free %						
cM capacity (veh/h)	1607				986	1070
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	16	12	3			
Volume Left	1	0	1			
Volume Right	0	2	2			
cSH	1607	1700	1041			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.5	0.0	8.5			
Lane LOS	А		А			
Approach Delay (s)	0.5	0.0	8.5			
Approach LOS			А			
Intersection Summary						
Average Delay			1.1			
Intersection Capacity Utili	zation		13.3%	IC		of Service
Analysis Period (min)	ZatiOII		15.576		O LEVEL	
Analysis Penou (IIIIII)			10			

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u>بر ا</u>			र्भ	¥	
Traffic Volume (veh/h)	12	3	2	9	2	3
Future Volume (Veh/h)	12	3	2	9	2	3
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	13	3	2	10	2	3
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				246		
pX, platoon unblocked						
vC, conflicting volume			16		28	14
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			16		28	14
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	100
cM capacity (veh/h)			1602		985	1065
Direction, Lane #	EB 1	WB 1	NB 1			
Volume Total	16	12	5			
Volume Left	0	2	2			
Volume Right	3	0	3			
cSH	1700	1602	1032			
Volume to Capacity	0.01	0.00	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	1.2	8.5			
Lane LOS		А	А			
Approach Delay (s)	0.0	1.2	8.5			
Approach LOS			А			
Intersection Summary						
Average Delay			1.7			
Intersection Capacity Utiliz	vation		13.3%	IC	Ulevelo	of Service
Analysis Period (min)			15.570			
			15			

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Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	Y		4Î			اب
Traffic Volume (veh/h)	2	3	12	2	2	9
Future Volume (Veh/h)	2	3	12	2	2	9
Sign Control	Stop	-	Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	2	3	13	2	2	10
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						917
pX, platoon unblocked						
vC, conflicting volume	28	14			15	
vC1, stage 1 conf vol					-	
vC2, stage 2 conf vol						
vCu, unblocked vol	28	14			15	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	986	1066			1603	
Direction, Lane #	NW 1	NE 1	SW 1			
Volume Total	5	15	12			
Volume Left	2	0	2			
Volume Right	3	2	0			
cSH	1032	1700	1603			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.5	0.0	1.2			
Lane LOS	А		А			
Approach Delay (s)	8.5	0.0	1.2			
Approach LOS	А					
Intersection Summary						
Average Delay			1.8			
Intersection Capacity Utili	zation		13.3%	IC	CU Level o	of Service
Analysis Period (min)			15			
			10			

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Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	Y		ţ,			ę
Traffic Volume (veh/h)	1	2	12	2	1	10
Future Volume (Veh/h)	. 1	2	12	2	1	10
Sign Control	Stop	-	Free	_		Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	2	13	2	1	11
Pedestrians	1	۷.	15	۷.		
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)			NULLE			NULLE
						
Upstream signal (ft)						
pX, platoon unblocked	27	11			1	
vC, conflicting volume	27	14			15	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol	77	1 /			1	
vCu, unblocked vol	27	14			15	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.5	0.0			0.0	
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	988	1066			1603	
Direction, Lane #	NW 1	NE 1	SW 1			
Volume Total	3	15	12			
Volume Left	1	0	1			
Volume Right	2	2	0			
cSH	1038	1700	1603			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.5	0.0	0.6			
Lane LOS	А		А			
Approach Delay (s)	8.5	0.0	0.6			
Approach LOS	А					
Intersection Summary						
Average Delay			1.1			
Intersection Capacity Utili	zation		13.3%			of Service
Analysis Period (min)	2011011		15.570	IC.		
Analysis Periou (IIIIII)			15			

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Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	Y		¢Î			र्भ
Traffic Volume (veh/h)	1	2	12	2	1	10
Future Volume (Veh/h)	1	2	12	2	1	10
Sign Control	Stop	-	Free	-		Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	2	13	2	1	11
Pedestrians	1	2	15	2	1	11
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)			Mana			Mana
Median type			None			None
Median storage veh)						07/
Upstream signal (ft)						276
pX, platoon unblocked						
vC, conflicting volume	27	14			15	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	27	14			15	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	988	1066			1603	
Direction, Lane #	NW 1	NE 1	SW 1			
Volume Total	3	15	12			
Volume Left	1	0	1			
Volume Right	2	2	0			
cSH	1038	1700	1603			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.5	0.0	0.6			
Lane LOS	А		А			
Approach Delay (s)	8.5	0.0	0.6			
Approach LOS	А					
Intersection Summary						
Average Delay			1.1			
Intersection Capacity Utiliz	zation		13.3%	10		of Service
	2011011			IC.	O Level (JI Selvice
Analysis Period (min)			15			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		1 2			<u>स</u>
Traffic Volume (veh/h)	3	2	29	0	0	33
Future Volume (Veh/h)	3	2	29	0	0	33
Sign Control	Stop		Free		-	Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	2	32	0	0	36
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						85
pX, platoon unblocked						
vC, conflicting volume	68	32			32	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	68	32			32	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	937	1042			1580	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	5	32	36			
Volume Left	3	0	0			
Volume Right	2	0	0			
cSH	976	1700	1580			
Volume to Capacity	0.01	0.02	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.7	0.0	0.0			
Lane LOS	А					
Approach Delay (s)	8.7	0.0	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			0.6			
Intersection Capacity Utili	zation		13.3%	IC	U Level o	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			ب ا	¢Î	
Traffic Volume (veh/h)	0	1	0	19	36	0
Future Volume (Veh/h)	0	1	0	19	36	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	1	0	21	39	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					303	
pX, platoon unblocked						
vC, conflicting volume	60	39	39			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	60	39	39			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)		-				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	947	1033	1571			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	<u></u> 1	21	39			
Volume Left	0	0	0			
Volume Right	1	0	0			
cSH	1033	1571	1700			
Volume to Capacity	0.00	0.00	0.02			
Queue Length 95th (ft)	0.00	0.00	0.02			
Control Delay (s)	8.5	0.0	0.0			
Lane LOS	6.5 A	0.0	0.0			
	8.5	0.0	0.0			
Approach Delay (s) Approach LOS	6.5 A	0.0	0.0			
Approach LOS	A					
Intersection Summary						
Average Delay			0.1			
Intersection Capacity Utili	zation		13.3%	IC	CU Level o	of Service
Analysis Period (min)			15			
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			ب ا	¢Î	
Traffic Volume (veh/h)	0	5	0	23	22	0
Future Volume (Veh/h)	0	5	0	23	22	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	5	0	25	24	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				141		
pX, platoon unblocked						
vC, conflicting volume	49	24	24			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	49	24	24			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	960	1052	1591			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	5	25	24			
Volume Left	0	0	0			
Volume Right	5	0	0			
cSH	1052	1591	1700			
Volume to Capacity	0.00	0.00	0.01			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.4	0.0	0.0			
Lane LOS	A	0.0	0.0			
Approach Delay (s)	8.4	0.0	0.0			
Approach LOS	A	0.0	0.0			
Intersection Summary						
Average Delay			0.8			
Intersection Capacity Utili	zation		13.3%	10	CU Level o	of Service
Analysis Period (min)	201011		15.570	IC.		
			10			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			ų	4	
Traffic Volume (veh/h)	0	0	3	20	22	0
Future Volume (Veh/h)	0	0	3	20	22	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	3	22	24	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)				110110	110110	
Upstream signal (ft)				985		
pX, platoon unblocked				,00		
vC, conflicting volume	52	24	24			
vC1, stage 1 conf vol	02	- 1	21			
vC2, stage 2 conf vol						
vCu, unblocked vol	52	24	24			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	U.1	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	955	1052	1591			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	0	25	24			
Volume Left	0	3	0			
Volume Right	0	0	0			
cSH	1700	1591	1700			
Volume to Capacity	0.00	0.00	0.01			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	0.9	0.0			
Lane LOS	А	А				
Approach Delay (s)	0.0	0.9	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			0.5			
Intersection Capacity Utiliz	zation		6.9%	10	CU Level o	of Service
Analysis Period (min)	Lation		15			
			15			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		ţ,			÷.
Traffic Volume (veh/h)	0	0	19	1	0	22
Future Volume (Veh/h)	0	0	19	1	0	22
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	21	1	0	24
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	46	22			22	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	46	22			22	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	965	1056			1593	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	0	22	24			
Volume Left	0	0	0			
Volume Right	0	1	0			
cSH	1700	1700	1593			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	0.0	0.0			
Lane LOS	А					
Approach Delay (s)	0.0	0.0	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utiliz	zation		6.7%	IC	U Level o	of Service
Analysis Period (min)			15			
cM capacity (veh/h) Direction, Lane # Volume Total Volume Left Volume Right cSH Volume to Capacity Queue Length 95th (ft) Control Delay (s) Lane LOS Approach Delay (s) Approach LOS Intersection Summary Average Delay Intersection Capacity Utiliz	WB 1 0 0 1700 0.00 0 0.0 A 0.0 A	NB 1 22 0 1 1700 0.01 0 0.0	24 0 1593 0.00 0 0.0 0.0 0.0 0.0 6.7%	IC		of Service

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Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<u>بر</u>	<u>بور، ا</u>	WDIX	¥	ODIC
Traffic Volume (veh/h)	0	30	28	3	0	3
Future Volume (Veh/h)	0	30	28	3	0	3
Sign Control		Free	Free	-	Stop	-
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	33	30	3	0	3
Pedestrians	-			-	-	-
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)		None	None			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	33				64	32
vC1, stage 1 conf vol	55				04	52
vC2, stage 2 conf vol						
vCu, unblocked vol	33				64	32
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)	4.1				0.4	0.2
tF (s)	2.2				3.5	3.3
p0 queue free %	100				100	100
cM capacity (veh/h)	1579				941	1043
					741	1045
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	33	33	3			
Volume Left	0	0	0			
Volume Right	0	3	3			
cSH	1579	1700	1043			
Volume to Capacity	0.00	0.02	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	0.0	8.5			
Lane LOS			А			
Approach Delay (s)	0.0	0.0	8.5			
Approach LOS			А			
Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utiliz	zation		13.3%	IC	U Level o	of Service
Analysis Period (min)			15.070	10	2 201010	
			10			

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u>بر ا</u>	2011		با	Y	
Traffic Volume (veh/h)	28	2	3	28	3	2
Future Volume (Veh/h)	28	2	3	28	3	2
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	30	2	3	30	3	2
Pedestrians			-		-	
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				246		
pX, platoon unblocked						
vC, conflicting volume			32		67	31
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			32		67	31
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	100
cM capacity (veh/h)			1580		936	1043
Direction, Lane #	EB 1	WB 1	NB 1			
Volume Total	32	33	5			
Volume Left	0	3	3			
Volume Right	2	0	2			
cSH	1700	1580	976			
Volume to Capacity	0.02	0.00	0.01			
Queue Length 95th (ft)	0.02	0.00	0.01			
Control Delay (s)	0.0	0.7	8.7			
Lane LOS	0.0	A	0.7 A			
Approach Delay (s)	0.0	0.7	8.7			
Approach LOS	0.0	0.7	A			
Intersection Summary						
			0.0			
Average Delay	- at!		0.9	10		f Can de la
Intersection Capacity Utiliz	zation		14.0%	IC	U Level o	of Service
Analysis Period (min)			15			

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Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	¥		¢Î		0.112	ا ب
Traffic Volume (veh/h)	3	2	28	2	3	28
Future Volume (Veh/h)	3	2	28	2	3	28
Sign Control	Stop	-	Free	-	0	Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	2	30	2	3	30
Pedestrians	0	2	00	2	0	00
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)			None			None
						917
Upstream signal (ft)						917
pX, platoon unblocked	(7	01			22	
vC, conflicting volume	67	31			32	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol	(7	01			22	
vCu, unblocked vol	67	31			32	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.5	0.0			0.0	
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	936	1043			1580	
Direction, Lane #	NW 1	NE 1	SW 1			
Volume Total	5	32	33			
Volume Left	3	0	3			
Volume Right	2	2	0			
cSH	976	1700	1580			
Volume to Capacity	0.01	0.02	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.7	0.0	0.7			
Lane LOS	А		А			
Approach Delay (s)	8.7	0.0	0.7			
Approach LOS	А					
Intersection Summary						
Average Delay			0.9			
Intersection Capacity Utiliz	ration		14.0%	10	:U Level o	of Sorvice
				IC	O Level (
Analysis Period (min)			15			

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Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	Y		4Î			् र्ग
Traffic Volume (veh/h)	0	5	25	5	5	26
Future Volume (Veh/h)	0	5	25	5	5	26
Sign Control	Stop	-	Free	-	-	Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	5	27	5	5	28
Pedestrians		0	_ ,		Ū	20
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)			None			None
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	68	30			32	
vC1, stage 1 conf vol	00	00			02	
vC2, stage 2 conf vol						
vCu, unblocked vol	68	30			32	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.1	0.2				
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	935	1045			1580	
			CW/ 1			
Direction, Lane #	<u>NW 1</u> 5	NE 1 32	SW 1 33			
Volume Left	0	0	5			
	5	5	0			
Volume Right cSH	1045	1700	1580			
	0.00	0.02	0.00			
Volume to Capacity			0.00			
Queue Length 95th (ft)	0 8.5	0 0.0				
Control Delay (s)		0.0	1.1			
Lane LOS	A	0.0	A			
Approach Delay (s)	8.5 A	0.0	1.1			
Approach LOS	A					
Intersection Summary						
Average Delay			1.1			
Intersection Capacity Utiliz	zation		15.6%	IC	CU Level of	of Service
Analysis Period (min)			15			
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Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	¥		¢Î		0112	اب
Traffic Volume (veh/h)	0	5	25	5	5	21
Future Volume (Veh/h)	0	5	25	5	5	21
Sign Control	Stop		Free	-		Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	5	27	5	5	23
Pedestrians	-			-		-
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						276
pX, platoon unblocked						
vC, conflicting volume	62	30			32	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	62	30			32	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	941	1045			1580	
Direction, Lane #	NW 1	NE 1	SW 1			
Volume Total	5	32	28			
Volume Left	0	0	5			
Volume Right	5	5	0			
cSH	1045	1700	1580			
Volume to Capacity	0.00	0.02	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.5	0.0	1.3			
Lane LOS	А		А			
Approach Delay (s)	8.5	0.0	1.3			
Approach LOS	А					
Intersection Summary						
Average Delay			1.2			
Intersection Capacity Utiliza	ation		15.4%	IC	U Level o	of Service
Analysis Period (min)			15			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		4Î			ب ا
Traffic Volume (veh/h)	5	0	27	5	5	26
Future Volume (Veh/h)	5	0	27	5	5	26
Sign Control	Stop		Free	-	-	Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	5	0	29	5	5	28
Pedestrians	-	-		-	-	
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)			None			None
Upstream signal (ft)						85
pX, platoon unblocked						05
vC, conflicting volume	70	32			34	
vC1, stage 1 conf vol	70	32			34	
vC2, stage 2 conf vol						
vCu, unblocked vol	70	32			34	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.4	0.2			4.1	
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	100			100	
	99	1043			1578	
cM capacity (veh/h)	932	1043			12/8	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	5	34	33			
Volume Left	5	0	5			
Volume Right	0	5	0			
cSH	932	1700	1578			
Volume to Capacity	0.01	0.02	0.00			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.9	0.0	1.1			
Lane LOS	А		А			
Approach Delay (s)	8.9	0.0	1.1			
Approach LOS	А					
Intersection Summary						
Average Delay			1.1			
Intersection Capacity Utili	zation		15.6%			of Service
				IC.	o Level (J Selvice
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			ب ا	¢Î	
Traffic Volume (veh/h)	0	1	1	32	31	0
Future Volume (Veh/h)	0	1	1	32	31	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	1	1	35	34	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					303	
pX, platoon unblocked						
vC, conflicting volume	71	34	34			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	71	34	34			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)		-				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	933	1039	1578			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	1	36	34			_
Volume Left	0	1	0			
Volume Right	1	0	0			
cSH	1039	1578	1700			
Volume to Capacity	0.00	0.00	0.02			
Queue Length 95th (ft)	0.00	0.00	0.02			
Control Delay (s)	8.5	0.2	0.0			
Lane LOS	A	0.2 A	0.0			
Approach Delay (s)	8.5	0.2	0.0			
Approach LOS	A	0.2	0.0			
••	A					
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utiliza	tion		13.3%	10	CU Level o	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			ų	¢Î	
Traffic Volume (veh/h)	0	5	10	10	18	0
Future Volume (Veh/h)	0	5	10	10	18	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	5	11	11	20	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				141		
pX, platoon unblocked						
vC, conflicting volume	53	20	20			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	53	20	20			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)		-				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	99			
cM capacity (veh/h)	949	1058	1596			
Direction, Lane # Volume Total	EB 1 5	NB 1 22	SB 1 20			
Volume Left	0	11	20			
	5	0	0			
Volume Right cSH	1058	1596	1700			
Volume to Capacity	0.00	0.01	0.01			
Queue Length 95th (ft)	0	1	0			
Control Delay (s)	8.4	3.7	0.0			
Lane LOS	A	A	0.0			
Approach Delay (s)	8.4	3.7	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			2.6			
Intersection Capacity Utili	zation		17.7%		CU Level o	of Service
Analysis Period (min)			15			
			10			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			ų	¢Î	
Traffic Volume (veh/h)	0	1	1	9	17	0
Future Volume (Veh/h)	0	1	1	9	17	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	1	1	10	18	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)					110110	
Upstream signal (ft)				985		
pX, platoon unblocked				700		
vC, conflicting volume	30	18	18			
vC1, stage 1 conf vol		10	10			
vC2, stage 2 conf vol						
vCu, unblocked vol	30	18	18			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	0.1	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	984	1061	1599			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	1	11	18			
Volume Left	0	1	0			
Volume Right	1	0	0			
cSH	1061	1599	1700			
Volume to Capacity	0.00	0.00	0.01			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.4	0.7	0.0			
Lane LOS	А	А				
Approach Delay (s)	8.4	0.7	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			0.5			
Intersection Capacity Utili	zation		13.3%	10	CU Level o	of Service
Analysis Period (min)	Zation		15.5%	IC		
Analysis Penou (IIIIII)			10			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		ţ,			ę
Traffic Volume (veh/h)	1	0	8	1	0	16
Future Volume (Veh/h)	1	0	8	1	0	16
Sign Control	Stop	-	Free		-	Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	0	9	1	0	17
Pedestrians		0				
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)			None			None
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	26	10			10	
vC1, stage 1 conf vol	20	10			10	
vC2, stage 2 conf vol						
vCu, unblocked vol	26	10			10	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.1	0.2				
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	989	1072			1610	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	1	10	17			
Volume Left	1	0	0			
Volume Right	0	1	0			
cSH	989	1700	1610			
Volume to Capacity	0.00	0.01	0.00			
Queue Length 95th (ft)	0.00	0.01	0.00			
Control Delay (s)	8.6	0.0	0.0			
Lane LOS		0.0	0.0			
	A 8.6	0.0	0.0			
Approach Delay (s) Approach LOS	0.0 A	0.0	0.0			
Approach LOS	A					
Intersection Summary						
Average Delay			0.3			
Intersection Capacity Utiliz	zation		13.3%	IC	U Level o	of Service
Analysis Period (min)			15			

Margaret's Report 4/27/2022

Zoning Permits issued:

67 Christian Hill Road – Marnie Boardman. RA Zone. Replace existing in-ground swimming pool; extend the south end 4 feet further.

352 Canterbury Road – Allan Parsons. RA Zone/ Visible from Route 169 in the Scenic Route 169 Overlay Zone. After-the-fact permit for installing a generator in the front yard. The generator will be screened from view using 2 sections of white trellising at least as high as the generator.

44 Canterbury Road – PierceCare. Visible from the road in the VC Zone. On an existing 4car garage: replace siding with white vinyl siding, strip and re-roof with the same color shingles as on the new roof of the front house portion of the facility closest to Route 169.

11 Kathleen Drive – Lisa and Derek Lindia. RA Zone. Renovate basement to add 3/4 bathroom, kitchenette and create home office and rec room.

177 Windham Road – Matt & Ashley Kamfonik. RA Zone. New 11-ft x 18-ft shed in the rear yard and a 15-ft round above-ground swimming pool in the rear yard.

230 Laurel Hill Road – Frederick and Sharon Espinosa. Replacing old trailer with new 27' x 52' manufactured home.

225 Gorman Road – Steve George. R-30 Zone. New 1,390 sq ft ranch, 3 bedrooms, 2 full bathrooms, with attached garage and covered porch.

299 Day Street – Jeffrey Weaver. New duplex with front porch.

372 Hartford Road – Ourania Politis. RA Zone. New 10-ft x 14-ft shed on a gravel base.

44 Mason Road – William Bergan. RA Zone. Addition and new chicken coop.

190 Wolf Den Road – JP & Stephanie Rimoczy. RA Zone. Construct two story 38' x 25' detached two car garage with 1288 air conditioned square foot in-law apartment; 16' x 20' deck with stairs to grade. The final approved plans for the Special Permit issued by the Planning & Zoning Commission, bearing the seal and signature of the appropriate professionals and signed by the Commission Chair, were recorded along with the Record of Special Permit in the office of the Town Clerk on 4/7/22..

257 Woodward Road – Michael Daigle. RA Zone. Construction of new 20' x 40' cinder block chicken coop.

300 Canterbury Road – Beth Sorel and Jennifer Johnson. RA/Scenic Route 169 Overlay Zone. After-the-fact construction of a 16-ft x 24-ft above-ground swimming pool and a 20-ft x 34-ft deck with integrated fence and arborvitae shrub screenings.

Final Certificates of Zoning Compliance issued:

231 South Street – Patrick Riley. R-30 Zone. New single family home with attached garage and side deck.

341 Day Street – Jeffrey Weaver. R-30 Zone. New single family dwelling with attached garage and rear deck.

25 Anderson Road – Joseph A. Tatro. RA Zone. New single-family dwelling with attached garage and front and rear porches.

Home Office Permits Issued: None.

Sign Permits issued:

538 Providence Road – Bodyworks Massage & Wellness. PC Zone. Front wall sign and west side wall sign.

Zoning Issues:

FCR Gravel Pit off Day Street – FCR Realty LLC. I inspected on 4/7, the target date for completion of the Phase 1 restoration. Four-fifths of the work required in Phase 1 had been completed. I was satisfied with the progress. I will re-inspect on 6/9, the target date for the completion of the Phase 2 remediation.

20 Franklin Drive – Stephanie and Brennan Hynes. R-30 Zone. A 16-ft x 32-ft above-ground swimming pool and wrap-around deck were installed in the rear yard with no zoning permit or building permit. After several Notices of Violation, an as-built plan was submitted on 3/24/22. A variance request is anticipated.

67 Paradise Drive – Lisa Grover Bessette. RA Zone. A Cease & Desist Order was issued on 3/15/22, with a deadline of 4/5/22 to stop using the camping trailer as a dwelling unit on a lot with no house, and also to remove the camping trailer from the lot. Ms. Bessette has refused to accept the certified mail. I emailed the Cease & Desist Order to Ms. Bessette and asked for a reply that she had received it. She has failed to reply. Attempts at obtaining voluntary compliance have been fruitless. A Citation will be forthcoming.

530 Wauregan Road – Brooklyn Sand & Gravel.

I inspected, took photographs and issued a Notice of Exceedance on 3/21/22. The holder of Gravel Special Permit SPG 19-002 appeared to have exceeded the approved limits of the Phase 1 Excavation Area, as shown on the approved plans. An as-built plan has been required, along with an estimate generated by a Professional Engineer stating how many cubic yards of material have

been removed outside the approved limits of the Phase 1 Excavation Area. None of the required documentation was received before the 30-day deadline. On 4/25, after the deadline, David Held submitted a letter stating that he estimated the volume of material excavated from the area of exceedance to be 71,000 cubic yards and that the area of exceedance is 2.3 acres in size. No site plan or Gravel Special Permit application has been received as of the date of this report.

14 Darby Road – Jason Johnson. I received a complaint about fill near wetland, inspected and took photographs on 4/20/22. Junkyard conditions were observed. Mr. Johnson called on 4/26 to say that he had reduced the number of unregistered vehicles to one. An inspection will be performed.

ZBA Variances Granted: None.

TOWN OF BROOKLYN

Expenditure Report Fiscal Year: 2021 - 2022				From Date: 7/1/2021		To Date: 4/30/2022		
Account Number	Description	Adj. Budget	Current	YTD	Balance	Encumbrance	Budget Bal	%Bud
1005.41.4153.51620	Planning & Zoning-Wages PT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
1005.41.4153.51900	Planning & Zoning-Wages-Rec. Secretary	\$3,150.00	\$2,450.00	\$2,450.00	\$700.00	\$700.00	\$0.00	0.00%
1005.41.4153.53020	Planning & Zoning-Legal Services	\$10,000.00	\$1,925.00	\$1,925.00	\$8,075.00	\$146.25	\$7,928.75	79.29%
1005.41.4153.53200	Planning & Zoning-Professional Affiliations	\$110.00	\$110.00	\$110.00	\$0.00	\$0.00	\$0.00	0.00%
1005.41.4153.53220	Alimations Planning & Zoning-In Service Training	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	100.00%
1005.41.4153.53400	Planning & Zoning-Other Professional Services	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	100.00%
1005.41.4153.55400	Planning & Zoning-Advertising & Legal Notices	\$500.00	\$943.70	\$943.70	(\$443.70)	\$0.00	(\$443.70)	-88.74%
1005.41.4153.55500	Planning & Zoning-Printing & Publications	\$1,000.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$1,000.00	100.00%
1005.41.4153.55800	Planning & Zoning-Transportation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
1005.41.4153.56900	Planning & Zoning-Other Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
1005.41.4153.56950	Planning & Zoning-State Marshal Surveyor/Support	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
Grand Total:		\$15,760.00	\$5,428.70	\$5,428.70	\$10,331.30	\$846.25	\$9,485.05	60.18%

End of Report

Revenue Report Fiscal Year: 2021 - 2022		From Date: 7/1/2021			To Date: 4/30/2022			
Account Number	Description	Adj. Budget	Current	YTD	Balance	Encumbrance	Budget Bal	%Bud
1005.00.0000.42203	Planning & Zoning Fees	(\$10,000.00)	(\$3,459.00)	(\$3,459.00)	(\$6,541.00)	\$0.00	(\$6,541.00)	65.41%
Grand Total:		(\$10,000.00)	(\$3,459.00)	(\$3,459.00)	(\$6,541.00)	\$0.00	(\$6,541.00)	65.41%

End of Report