CITY OF STAMFORD

DIRECTOR OF OPERATIONS **Matthew Quiñones**

> Land Use Bureau Chief **Ralph Blessing**

Principal Planner Vineeta Mathur (203) 977-4716 vmathur@stamfordct.gov

Associate Planner **Lindsey Cohen** (203) 977-4388 Icohen@stamfordct.gov

ZONING BOARD LAND USE BUREAU 888 WASHINGTON BOULEVARD STAMFORD, CT 06904 -2152 RECEIVED

March 28, 2024

MAR 2 8 2024

Ms. Theresa Dell, Chair, Planning Board Land Use Bureau, City of Stamford 888 Washington Blvd. Stamford, CT 06904

PLANNING BOARD

Application 224-16 - Nautilus Botanicals EJVI LLC and 1308 East Main Street, 1308 RE: East Main Street, Stamford, CT - Special Permit & Coastal Site Plan Review-, Applicant is seeking approval to operate a hybrid cannabis retail facility servicing both medical patients and adult-use consumers. Property is located within the C-N Zone.

Dear Ms. Dell:

In accordance with Section C6-40-10 of the Charter of the City of Stamford, the above captioned Applications for a Special Permit and a Coastal Site Plan Review are hereby referred to the Planning Board of the City of Stamford for its advisory report.

A public hearing has not yet been scheduled. Referral comments should be filed with the Zoning Board Office by May 2, 2024.

If you have any questions, please feel free to contact me at (203) 977-4716.

Sincerely,

Principal Planner



APPLICATION FOR SPECIAL PERMIT

Complete, notorize, and forward thirteen (13) hard copies and (1) electronic copy in PDF format to Clerk of the Zoning Board with a \$1,000.00 Public Hearing Fee and the required application filling fee (see Fee Schedule below), payable to the City of Stamford.

NOTE: Cost of required advertisements are payable by the Applicant and performance of required mailing to surrounding property owners is the sole responsibility of the applicant. **LAND RECORDS RECORDING FEE**: \$60.00 for First page - \$5.00 for each additional page)

Fee Schedule

Special Permit 20,000 sq. ft. or less	\$460.00
Special Permit more than 20,000 sq. ft.	\$460.00 + \$30 per 1,000 sq. ft. or portion thereof in excess of 20,000 sq. ft.

APPLICANT NAME (S): Nautilus Botanicals EJV1 LLC and 1308 East Main Street LLC

APPLICANT ADDRESS: c/o Leonard Braman, Wofsey Rosen, 600 Summer Street, 7th Fl., Stamford, CT 06901 APPLICANT PHONE #: 203-354-1282

IS APPLICANT AN OWNER OF PROPERTY IN THE CITY OF STAMFORD? <u>Yes - 1308 East Main Street LLC owns property in Stamford</u> 1308 East Main Street (Parcel ID 118 308 B) 1308 East Main Street (Parcel ID 118 308 B)

ADDRESS OF SUBJECT PROPERTY: 1308 East Main Street (Parcel ID 118 308 B)

PRESENT ZONING DISTRICT: C-N (Neighborhood Business)

TITLE OF SITE PLANS & ARCHITECTURAL PLANS: Site Plan SD-11.3; Layout Plan SD-11.3; Color-coded Layout Plan SD-11.3

REQUESTED SPECIAL PERMIT: (Attach written statement describing request) Special Permit for a Hybrid Cannabis Retailer pursuant to Sec. 5.E of the Stamford Zoning Regulations See attached Project Description and Statement of Findings.

LOCATION: (Give boundaries of land affected, distance from nearest intersecting streets, lot depths and Town Clerk's Block Number)

See attached Property Description

NAME AND ADDRESS OF OWNERS OF ALL PROPERTY INVOLVED IN REQUEST:

NAME & ADDRESS 1308 East Main Street LLC 1308 East Main Street Stamford, CT 06902-3530 LOCATION 1308 East Main Street

DOES ANY PORTION OF THE PREMISES AFFECTED BY THIS APPLICATION LIE WITHIN 500 FEET OF THE BORDER LINE WITH GREENWICH, DARIEN OR NEW CANAAN? Yes - Darien (If yes, notification must be sent to Town Clerk of neighboring community by registered mail within 7 days of receipt of application – PA 87-307).

DOES THE PROJECT RESULT IN THE CREATION OF 10 OR MORE UNITS OR 10,000 SF OR MORE IN FLOOR AREA OR DISTURBANCE OF 20,000 SF OR MORE IN LAND AREA, THROUGH NEW DEVELOPMENT, RECONSTRUCTION, ENLARGEMENT OR SUBSTANTIAL ALTERATIONS? No (If yes, then complete the Stamford Sustainability Scorecard per Section 15.F).

	City of Stamford Zoning Board • Land Use Bureau Government Center • 888 Washington Boulevard • Stamford, CT 06904-2152 Phone: 203.977.4719 • Fax: 203.977.4100
DATED AT STAMFORD, CONNECTICUT, THIS19th	DAY OF March 2024
NOTE: Application cannot be scheduled for Public Hearin Stamford Planning Board. If applicant wishes to withdraw prior to Public Hearing so that the Board may have suffice	ng until 35 days have elapsed from the date of referral to the v application, please notify the Zoning Board at least three (3) days ent time to publicize the withdrawal.
STATE OF CONNECTICUT SS STAMFORD	9th day of March, 2024
Personally appearedLeonard M. Braman, signer thereof, before me.	of the foregoing application, who mALEXANDIA POCHNA contents Notary Public State of Connecticut My Commission Expires April 30, 2028 Notary Public - Commissioner of the Superior Court
FOR OFFICE USE ONLY APPL. #: 224-16 Received in the	office of the Zoning Board: Date:
	Ву:

Revised 09/02/2020



APPLICATION FOR COASTAL SITE PLAN REVIEW

Complete, notorize, and forward six (6) hard copies and one (1) electronic copy in PDF format of all project plans and documents to Clerk of the Zoning Board with a (see Fee Schedule Below) payable to the City of Stamford.

An additional fee of \$50 for single-family zoned property and \$100 for properties with all other zoning designations is required for review by the Stamford Harbor Management Commission. Two separate checks are required with the submission of the application

NOTE: ADVERTISING COST OF THE RESULTS OF THE ZONING BOARD REVIEW IS PAYABLE BY THE APPLICANT PRIOR TO PUBLICATION.

Fee Schedule

Coastal Site Plan Review (Commercial Projects Under 5,000 sq. ft. or Single Family Detached Home)	\$335.00
Coastal Site Plan Review (Commercial Projects of 5,000 sq. ft. or more or residential projects with two or more dwellings units	\$335.00 + \$10 per 1,000 sq. ft. or per unit in excess of 5,000 sq. ft. or one unit.

APPLICANT NAME (S): _____

APPLICANT PHONE #:	203-354-1282											
PROJECT LOCATION:	308 East Main Street, Stamford, CT 06902											
PROPERTY OWNER (S):	1308 East Main Street LLC											
CONTACT FOR QUESTIC	Leonard Braman, Esg.											
ACREAGE OF PROJECT	21 680 off (0 E aproc)											
SQUARE FEET OF PROP	6.070											
ZONING DISTRICT OF PROP	ON (Neighborhood Duringer)											
ZUNING DISTRICT OF PR	ROJECT PARCEL:											

PROJECT DESCRIPTION:

Fit-up/renovation and small second-floor addition in the rear, all within existing building footprint, to convert existing restaurant to hybrid medical and adult-use cannabis retail facility.

Coastal resources on which the project is located or which will be affected by the project: (See "Index of Policies" Planning Report 30)	Coastal policies affected by the project: (See "Index of Policies" Planning Report 30)
a. bluffs or escarpments b. rocky shorefront c. beaches and dunes d. intertidal flats e. tidal wetlands f. freshwater wetlands g. estuarine embayments _x_h. coastal flood hazard areas j. developed shorefront k. islands	a. water dependent uses b. ports and harbors c. coastal structures & filing d. dredging & navigation e. boating f. fisheries g. coastal recreation access h. sewer & water lines i. energy facilities j. fuel, chemicals & hazardous materials k. transportation l. solid waste m. dams, dikes & reservoirs n. shellfish concentration , o. general development , p. open space
If the project is adjacent to coastal waters, is the project water of YES X NO If yes, in what manner? Docks, piers, etc Industrial process or cooling waters?	dependent? (See C.G.S. sec. 22a-93) NOT APPLICABLE General public access Other, please specify:



What possible adverse or beneficial impacts may occur as a result of the project? (Attach additional sheet if necessary)

See attached Coastal Resource Evaluation. The project involves fit-up/renovation and small second-floor addition, all within existing building footprint, to change the use of an existing structure. There will be no adverse impacts.

How is the proposal consistent with all applicable goals and policies of the CAM Act?

See attached report. The project is consistent with the goals and policies of the CAM Act as it will result in no adverse impacts to coastal resources. It will enhance the existing structure's flood resiliency by limiting areas below the base flood elevation to storage only and adding flood vents. What measures are being taken to mitigate adverse impacts and eliminate inconsistencies with the CAM Act? (Attach additional sheet

What measures are being taken to mitigate adverse impacts and eliminate inconsistencies with the CAM Act? (Attach additional sneet if necessary)

See attached report. There will be no adverse impacts. There will be no construction outside the existing building footprint.

Is there any deed restriction(s) that may prohibit the construction proposed in this application? _____No_____

If yes, list Town Clerk Book & Page reference:

Is any injunction or other litigation pending concerning this property? _____No_____

If yes, include citation:

DATED AT STAMFORD, CO	NNECTICUT, THIS	8th DAYO	March,	20 24	
STATE OF CONNECTICUT COUNTY OF FAIRFIELD	ss STAMFORD	18t da	joj March	20 24	
Personally appeared contents thereof, before me.	_Leonard M. Braman	Koth	foregoing application, who ALEXANDRA P Notary Public State of Orminitistion Exprises	Connecticut My	
FOR OFFICE USE ONLY					

APPL. #: ____

Received in the office of the Zoning Board: Date:

Ву:_____

Revised 02/05/2024

Project Description – 3/25/2024

Company Profile

Licensure & Eligibility

On November 21, 2022, Nautilus Botanicals LLC ("Nautilus Botanicals") was awarded a provisional cannabis cultivation license (License No. ACCE.0000005) pursuant to Section 21a-420(o) of the Connecticut "Responsible and Equitable Regulation of Adult-Use Cannabis Act", or "RERACA."

Section 5 of Public Act 22-103, which amended and supplemented RERACA, provides that a cultivator licensed under Section 21a-420(o) of RERACA may create two equity joint ventures in any cannabis establishment licensed business other than cultivation. Licensees under Section 21a-420(o) are therefore entitled to open two retail cannabis dispensaries in Connecticut, subject to local approval, approval by the CT Social Equity Council, and final state licensure from the CT Department of Consumer Protection. Nautilus Botanicals has formed an equity joint venture, Nautilus Botanicals EJV1 LLC, for the purpose of opening a retail hybrid cannabis dispensary in Stamford, CT. A hybrid cannabis dispensary is a retail operation that sells both medical marijuana and adult-use recreational cannabis products.

Corporate Structure

As noted above, Nautilus Botanicals LLC owns the cultivation license. The special permit applicant, Nautilus Botanicals EJV1 LLC, is a subsidiary of Nautilus Botanicals LLC and was formed as an equity joint venture for the hybrid retail cannabis license. This license will be used to operate a hybrid medical/adult use dispensary in Stamford, CT, pending zoning approval.

In terms of ownership structure, as required by the CT Department of Consumer Protection, Luis Vega, our social equity applicant, owns 65% and Merida Capital, the backer, owns the remaining 35% of Nautilus. Nautilus Botanicals EJV1 LLC is owned 51% by Luis Vega, 48% by Merida Capital and 1% by Nautilus Botanicals LLC, and, as noted above, is a subsidiary of Nautilus Botanicals.

Background on Luis Vega, CEO & social equity applicant of Nautilus Botanicals LLC & Nautilus Botanicals EJV1 LLC Luis Vega has been a passionate advocate of cannabis and has worked tirelessly in the industry. His interest began when he was a teenager diagnosed with Crohn's disease and ulcerative colitis. The use of cannabis gave him the quality of life he enjoyed prior to surgery.

Mr. Vega studied finance at the University of New Haven and began working in corporate contract facility management. However, he remained passionate about cannabis and involved in the industry. He started with CBD sales for a college friend. His big opportunity came when Connecticut legalized hemp in 2019. Mr. Vega established Vega Holdings and used his own savings to obtain a USDA hemp license, purchase land and seeds and begin growing hemp. As part of the Connecticut Department of Agriculture's hemp pilot program, he was awarded a license to cultivate hemp and was the only Latino farmer to receive such a license. As his business developed, he added a processing license to allow for the harvest and processing of hemp. This led to the opening of a farm-to-store business, offering an array of hemp products from flower and pre-rolls to tinctures, edibles and topicals.

In November 2019, Vega Holdings was named one of five winners of the Merida Capital i2 (Inclusive Industry) minority entrepreneur accelerator program. As a result, he received seed money from Merida to start Vega Holdings' hemp farm, as well as access to Merida's strategic advice, network and resources.

Connecticut legalized adult use cannabis in July 2021. In January 2022, the requirements for applicants for Section 149 Cannabis Cultivator licenses were published, which were only made available to social equity applicants who met the residency and income requirements. Luis Vega met these requirements and applied for the Section 149 license in February 2022. He is the managing member and Chief Executive Officer for Nautilus Botanicals LLC.

Background on Merida Capital, backer for Nautilus Botanicals LLC & Nautilus Botanicals EJV1 LLC

Merida Capital Holdings was founded in 2016 and is one of the largest private equity firms in the state-legal cannabis industry. The firm is the only cannabis private equity firm to own and directly operate licensed cannabis businesses across multiple states. In addition, the firm's partners and co-founders have multiple years of experience launching licensed cultivation, manufacturing and retail businesses across multiple states. Current and past Merida operations include the following:

- Nautilus Botanicals in Connecticut: awarded a provisional Section 149 cultivation and manufacturing license, with a provision that allows for the formation of 2 equity joint ventures for any non-cultivation licenses. These will be used to open 2 hybrid retail stores.
- Harvest Care Medical in West Virginia: one of ten vertical licensees, with the ability to open up to ten dispensary locations; won the maximum number of dispensary licenses allowed. The cultivation and processing facility is operational, as are 5 dispensaries.
- COMO Health (d/b/a 3Fifteen Primo) in Missouri: five licenses for medical cannabis dispensaries operational, including a Cookies-branded store in St Louis. The stores have converted to adult use and are benefiting from a strong start to adult use sales.
- Jova and Storehouse in Maryland: awarded three retail licenses, with all 3 dispensaries operational. This includes the state's first black-owned dispensary in the state, which has 100% BIPOC staffing
- Dharma Pharmaceuticals in Virginia: one of five vertical licensees, with the ability to open up to six dispensary locations. The cultivation and processing facility is operational, and five dispensaries are open and operational. *Sold to GTI in July '21.*
- Laurel Harvest in Pennsylvania: Grower-processor licensee with the ability to open up to six dispensary locations. *Sold to Cresco in December '21.*
- Valley Ag in New York: overcame industry challenges in the early days of the industry to get the cultivation facility and four dispensaries operational. *Sold to Cresco in October '19.*

In addition, Merida's partners and co-founders bring direct experience with numerous cannabis businesses:

- Co-Founder & Managing Partner Mitch Baruchowitz brings 12 years of cannabis investment experience. He is
 an expert in the regulatory component of cannabis limited licensing and multi-state cultivation operations,
 and a frequent speaker and author on cannabis investment strategy and diligence. Prior to Merida, he was a
 (1) Co-Founder of Manticorp (d/b/a Grow West) in Maryland, which operates a cultivation facility; (2) Founder
 of Leafline Labs in Minnesota, one of only two licensed vertical medical cannabis operations; and, (3) Founder
 of Theraplant in Connecticut, one of the state's four vertical licensees.
- Co-Founder & Senior Operating Partner Kevin Gibbs currently oversees all of Merida's operating team and specifically oversees the firm's direct license operations. He first developed a deep expertise in cannabisrelated regulatory affairs and operations through his work with Greenfield and Peak Harvest Health. He then went on to be a Co-Founder of Manticorp (d/b/a Grow West) in Maryland, a licensed medical cannabis cultivation facility.
- Operating Partner Colin Kelly is part of Merida's operating team and helps oversee the firm's direct license operations, including Connecticut. Mr. Kelley has 16 years of experience in ensuring operational compliance with all applicable regulations and maximizing company productivity. He joined the cannabis industry in 2015, serving as the Chief Financial Officer and Chief Operating officer of Leafline Labs, one of two operators in Minnesota.
- Partner Connie DeBoever is part of Merida's investment team and oversees many of Merida's branded portfolio companies as well as the i2 Minority Accelerator Program. In addition, she is overseeing the licensed operations in Connecticut, including the cultivation and manufacturing as well as the retail facilities.

Site Information

The applicant proposes to operate a hybrid cannabis retail facility located at 1308 East Main Street, Stamford CT 06902. The applicant has a signed purchase agreement with the owner of the property, 1308 East Main Street LLC.

The proposed hybrid cannabis retail facility at 1308 East Main Street will be a split-level building with ~6,072 square feet of gross floor area on 0.5 acres. It is located in the C-N zone in Stamford.

Description of the Surrounding Area

The project is located in the East Side neighborhood of Stamford. It is on the easternmost edge of Stamford, on the north side of East Main Street, south of I-95, directly on the west bank of the Noroton River and across from Darien. South of the bridge that carries East Main Street over the Noroton River lies Holly Pond and Gerli Park. The prevailing built forms and uses in the area are commercial office and retail/restaurant buildings/uses. Directly to the west of the property is the four-story brick Chilton Investment office building at 1290 East Main, and to the southwest is the seven-story brick Holly Pond Plaza office building at 1281 East Main. The property has an extended parking area in its rear, which backs up to a wooded buffer area. To the north of the Chilton Investment office building, there are some single-family homes along Cove View Drive. The property slopes down as it goes north; the northern portion is at a significantly lower elevation than the surrounding property to the east and is separated by a large retaining wall. There is no access from the homes on Cove View Drive to the property without driving down Cove View Drive, past the Chilton office building along East Main Street. Only one or two residential properties on Cove View Drive have obstructed, screened views of the property, between the rear yards, over the retaining wall. As required by zoning for cannabis retail facilities, there are no public or private schools within 1,000 feet, and no existing or proposed other cannabis dispensaries within 3,000 feet.

The site is in the C-N zone, as are the office buildings to the west and southwest. Gerli Park to the south is in the P (park) zone, and the single-family homes north of the site past the Chilton building and wooded area are in the RM-1 zone. The site is not in the Architectural Review Design District.

Description of the Proposed Project Area

The project area is on the north side of East Main Street, east of Weed Avenue, and is bordered by the Noroton River to the east. Gerli Park and Holly Pond lie across East Main Street from the property. It is Map ID 002 /3311, Parcel ID 118 308 B. Existing land uses are predominantly commercial office and retail/restaurant, as is the predominant built form. Because the proposed project seeks only to retrofit a new retail use into the existing restaurant building with a modest second-floor addition for flood-zone compliance, all within the pre-existing building footprint, there will be no adverse impacts on surrounding properties. The proposed retail use will have no noticeable impact on traffic patterns in the area, and the site has more than adequate parking for the proposed use.

Project Overview

Proposed Plans

Our proposed use is a hybrid retail cannabis facility, which will serve both adult use customers and medical patients, in compliance with the state's licensing and regulatory requirements. We hope to locate the dispensary at 1308 East Main Street in Stamford. Our renovations will occur within the existing footprint and will mostly be interior-based, except for a modest second-floor addition in the rear section of the property. This second-floor addition will allow the ground floor to be used solely for storage and be fitted with flood vents, as is necessary to comply with the flood zone regulations. (This requirement is triggered because renovations to the existing structure are expected to cost more than 50% of the structure's appraised value according to the Stamford tax records.)

The customer entrance will be on the street level on what is considered the second/main floor. The windows will be frosted or painted opaque to comply with the state's privacy requirements. Interior work will consist of building a

security/check-in area, sales floor and areas for operations (e.g., vault and packaging) and employees (e.g., break room and lockers). The exterior work will consist of the small addition to comply with the flood zone regulations. Since the rear area of the property is below the Base Flood Elevation, it requires limited access and the installation of flood vents and will thus be used as storage.

Given the requirement to comply with flood zone regulations, our second-floor addition will comprise ~1,765 square feet, which will provide us with total gross square footage of ~6,072 square feet. This reflects ~2,953 square feet on the second/main floor (street level) and ~3,119 square feet on the ground floor (parking lot level). Our retail space will encompass 1,191 square feet on the second/main floor and will be utilized for entry and customer check-in, as well as a customer bathroom, medical patient consultation room and sales floor, the latter of which will allow for retail discussions and transactions between customers and customer counselors. The remainder of the second/main floor (~1,760 square feet) will be considered office space and encompass the packaging room, secure vault, IT closet and the employee area (lockers, bathroom and breakroom). The first/ground floor will be comprised of 3,119 square feet of gross floor area and will be primarily used for storage (2,192 square feet) and delivery/temporary storage.

We will be open seven days a week, with maximum hours from 9am to 9pm. On lighter traffic days, we may choose to be open from 10am to 8pm. Customers will enter the dispensary from the front entrance on the street level.

Since we will be operating a dispensary and not a cultivation or manufacturing facility, odor and noise will not be an issue. The lighting use will be similar to other retail stores.



Parking

In accordance with the Stamford parking regulations, we are required to have four (4) spaces per 1,000 square feet of retail space, three (3) spaces per 1,000 square feet of office space and one (1) space per 2,000 square feet of

storage space. Based on the above floor plans, we have 1,191 square feet of retail space, which generates a requirement for 5 parking spaces. In addition, we plan to have 2,689 square feet of office space, which will require 9 parking spaces. Finally, our storage use of 2,192 square feet will generate a parking requirement of 2 spaces. In total, we estimate sixteen (16) parking spaces are needed to comply with the Stamford parking regulations. This compares with 21 parking spaces provided, including one (1) handicap space. Additional spaces are available if necessary.

Operational Overview

We will be open seven days a week, with maximum hours from 9am to 9pm. On lighter traffic days, we may choose to be open from 10am to 8pm. Customers will be highly encouraged to place their orders online and pick up in the store. We plan to have five (5) point-of-sale ("POS") systems available to customers. Between this and online orders, we believe most customers will spend no more than 5 minutes in the store.

Management Experience

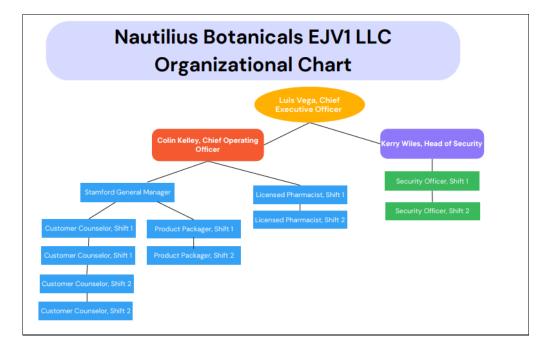
Nautilus Botanical EJV1's owners and team members bring a significant level of experience and professionalism in the cannabis industry. Merida Capital, the backer, has several years of experience in the industry, including experience operating more than 10 dispensaries in multiple states.

Within our management team, our Chief Executive Officer ("CEO") Luis Vega has had several years of experience as the only Latino hemp farmer in CT. Our Chief Operating Officer ("COO"), Colin Kelley, has over 8 years of experience in the cannabis industry, serving as Chief Financial Officer and COO of Leafline Labs in Minnesota and more recently as an operating partner at Merida Capital.

Key People

Our hybrid retail cannabis facility will be overseen by our CEO Luis Vega. He will oversee our COO, Colin Kelley, and the Head of Security, Kerry Wiles. Our COO will oversee the primary dispensary operations, including the general manager and the counselors and product packagers who report to him/her, as well as the licensed pharmacists. Our Head of Security will oversee the security officers, who will be responsible for checking IDs for compliance with the age and medical card requirements.

We plan to staff our store with 5-8 employees over two, six-hour shifts. This includes one required pharmacist for medical patients and one general manager. The remainder of the employees will be split between budtenders (2-4 per shift) and product packagers (1-2 per shift).



Operational Highlights

Customers will enter through the front door and will initially only have access to the public zone, which consists of the customer ingress and secure vestibule/check-in area. In the check-in booth, the security officer will be responsible for scanning their valid, government-issued IDs and verifying their age and, for medical patients, their medical card. Once their age and medical card have been verified, they will be allowed to enter the retail floor, which will be controlled access via RFID card. After picking up or making their purchase, customers will leave through a separate exit (customer egress).

Medical patients will be greeted by the security officer, who will verify their ID for age compliance as well as a stateissued medical card. After entering the facility, they will have a dedicated area for their use if they wish to have a consultation. In accordance with state regulations, medical patients will be given preferred access ahead of adult use customers. The on-site licensed pharmacist will be available for customers who have questions or request a consultation, in accordance with state requirements.

On the retail floor, customers will have access to five (5) point-of sale ("POS") systems. One of these POS will be a dedicated register for online orders and medical patients, with the other ones for walk-in or adult use customers. Customer counselors will be on hand with iPads to take orders, answer questions about products, help with orders and complete product purchases. Based on our operations in other states, we expect customers to spend less than 5 minutes in the store. This time will be further reduced for orders placed online.

Prior to completing a purchase, the customer counselor will ask to see the customer's valid, government-issued ID to verify their name and date of birth and to ensure they have not reached the state's mandated product purchase limit (currently ½ ounce of flower, or its equivalent, for adult use customers and 5 ounces of flower, or its equivalent, for medical patients). Medical patients will be required to show their state-issued medical card as well. After all these verifications have been completed, the customer counselors will review the product(s) being purchased with the customer before putting them back into the bag and stapling it shut. For online orders, staff will need to verify the customer counselor will inform customers of state regulations, especially consumption rules. Customers will then be directed to leave the store via a separate exit door.

Orders are sent by the POS to the packaging employee via tickets/receipts. Similar to restaurants, these tickets will be reviewed and processed by the fulfillment/packaging employee, who will place the products into a bag. Once

products are packaged in a bag, the bag will be passed through a window to the retail counter. The customer counselor will retrieve the exit bag from the secure pass-through door, which requires keycard access, and review with customers prior to completing the purchase.

No products will be available on the floor or in display cases. All products will only be available in the product packaging/fulfillment area (only during open hours) and be stored in the secure vault, especially overnight. In the product packaging/fulfillment area, products will be kept on mobile shelving to allow for easy movement and flexibility between this area and the secure vault.

Security Plan

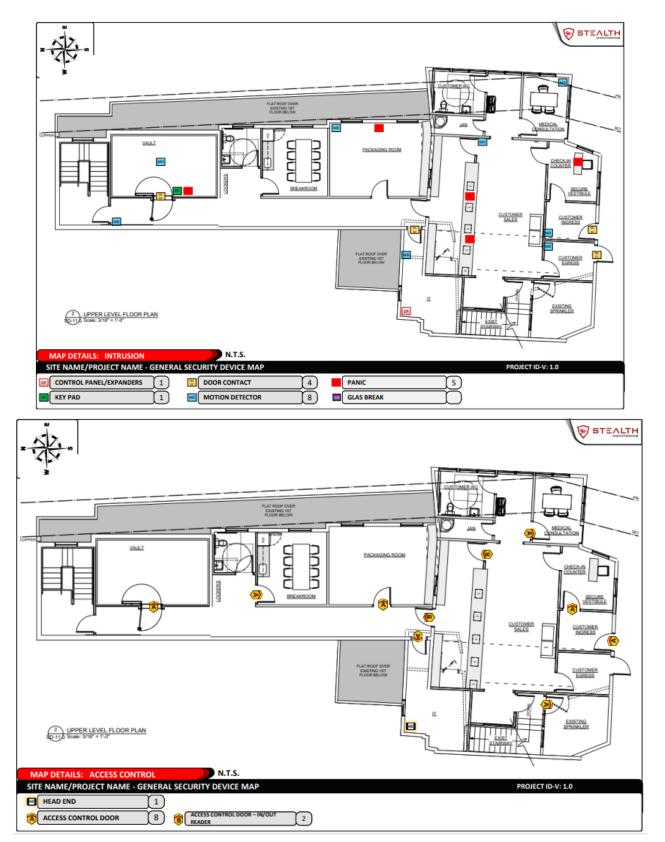
We will hire a security officer, who will be stationed in the check-in booth to scan IDs for age compliance and track purchases and any recalls. We will also place cameras and motion detectors in and around the facility for security purposes. The windows will be reinforced and have tinted film that allows those inside to see out but not vice versa. They will also be equipped with hefty window locks that are visible from the outside and with alarms that are monitored in the security room and at the off-site monitoring center. We plan to review our proposed plans with the fire marshal and building department when we file for a building permit.

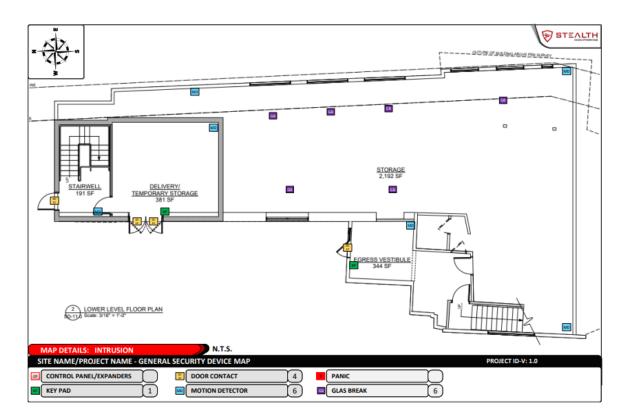
To facilitate the safest facility, we have separated our facility into four separate zones. The public zone is accessible to anyone who has been age-verified, and is where customers enter and check-in. The operations zone consists of the retail sales floor and product packaging/fulfillment areas. The limited access zone consists of employee areas and can only be accessed by an employee RFID card. Finally, the restricted access zone consists of the secure vault, secure delivery and the IT closet. All of the restricted access areas will only be accessible by specific employees with specific RFID access cards, surveillance or security personnel and state regulators and law enforcement agencies.

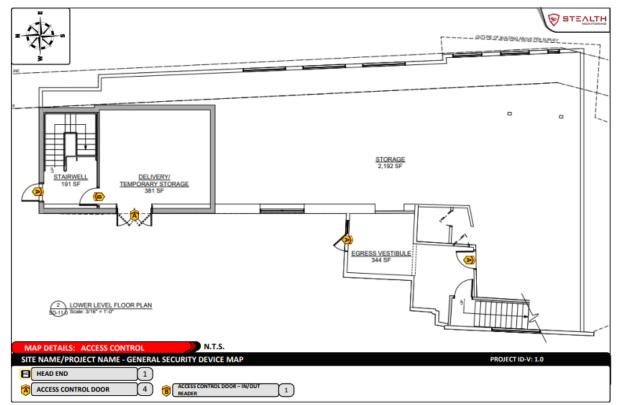


From an access perspective, all doors in the facility, including entry and exit doors, will have access controls via keypad entry and require RFID cards. The security desk will be equipped with a siren, an intrusion alarm panel and

a panic button. Panic buttons will be spaced through-out the POS area, below the counter and not visible to the public. Finally, alarmed keypads will be placed inside the entries to the check-in area and the secure vault.

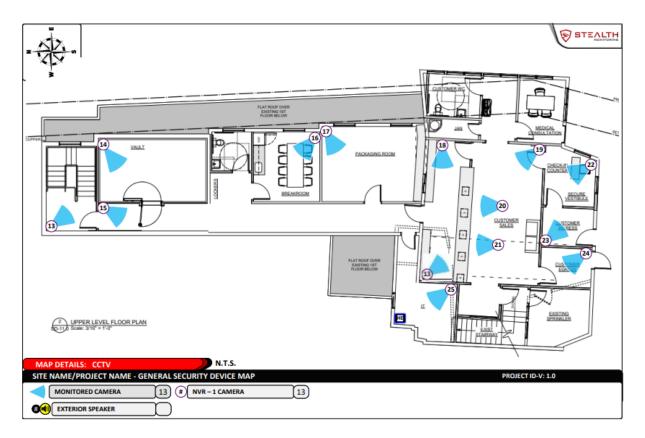


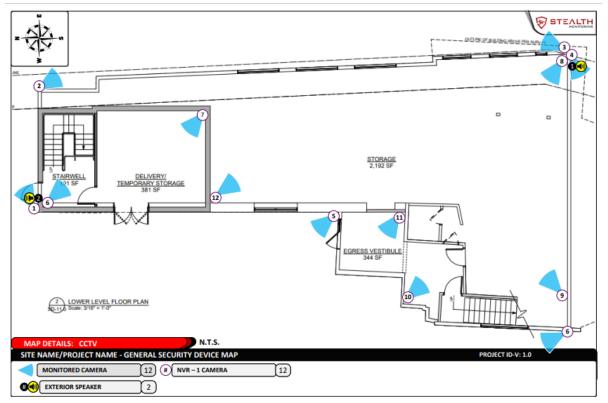




As required by the state, all cannabis products will be stored in the secure vault, which will be surrounded by 8" thick concrete. It will have an alarmed key pad and panic button. All products will be stored here. The vault can only be opened by the General Manager and has a timed lock.

Security cameras and surveillance monitors will be placed through-out the facility, as required by the Department of Consumer Protection. All security footage will be backed up and stored for at least 90 days.





Security Policies & Procedures

Opening and Closing

It is the responsibility of the Head of Security to adopt and implement opening and closing daily security inspections at Nautilus Botanical EJV1 LLC's ("Nautilus") facility. Security personnel, including Nautilus employees, third-party service providers, or contractors, and Nautilus' General Managers will perform or oversee opening and closing daily security inspection to ensure compliance with Nautilus policy, the rules set forth by the Department of Consumer Protection, and all applicable state and local laws, regulations, ordinances, and other requirements.

When closing the facility, Nautilus' Head of Security and Closing General Manager will perform initial and final walk throughs of the facility and perimeter of the premises to ensure: a) no employees, authorized individuals, or any other individuals are still present in the facility; b) all inventory and cash are secure; c) all alarm and surveillance systems and other devices to detect unauthorized intrusion are properly functioning; and d) the premises are generally secure when all Nautilus personnel leave.

Access Control- Employees

Given the significant security within and around Nautilus Botanicals EVJ1 LLC's ("Nautilus") dispensary facility, it will be crucial to maintain access control. This will include proper signage that prominently displays security system and private property notifications. In addition, all perimeter doors will be equipped with manual and electronic locking mechanisms using commercial-grade, non-residential door locks. These locks will remain engaged in the event of a power outage. Within the facility, employee access will be controlled via electronic door strikes and electronic keycard access hardware, as well as contact and silent alarms to prevent unauthorized entry or exit. Video cameras will installed in all limited access areas, point-of-sale locations, security rooms, all points of entry and exit and all areas containing cannabis.

On the exterior, LED flood lights will be utilized to facilitate surveillance and to light the exterior of the facility without impacting the neighboring properties.

When working, all employees will be required to wear their agent identification cards and to have their IDs be visible to others and in their immediate possession at all times. We will also prevent the sharing of any employee-specific access credentials and limit the use of combination numbers, passwords, or electronic or biometric security systems to registered, authorized employees.

To prevent unauthorized access to Nautilus' dispensary facility, we will have:

- Security equipment to deter and prevent unauthorized access into limited access areas, including a) devices to detect unauthorized intrusion; b) exterior lighting to facilitate surveillance; c) manual and silent alarms; d) electronic monitoring; and e) immediate automatic or electronic notification to alert local law enforcement agencies of an unauthorized breach of security.
- 2. Policies and procedures in place that: a) restrict access to the areas of Nautilus' dispensary that contain cannabis to authorized individuals, including patients and caregivers; b) provide for the identification of persons authorized to be in the areas of the dispensary that contains cannabis, including medical patients and adult use customers on the sales floor and Nautilus employees responsible for inventory control activities; c) cover electronic monitoring and the use of automatic or electronic notification and manual, silent alarms to alert local law enforcement agencies of an unauthorized breach of security at the facility, including designation of on-call facility personnel to respond to, and to be available to law enforcement agencies.
- 3. Install a commercial-grade, up-to-date security alarm system and video surveillance system to prevent and detect diversion, theft, or loss of marijuana or marijuana-infused products, or unauthorized access to the facility. For doors into limited access areas and all entries and exits into the licensed premises, Nautilus will

use Underwriter's Lab (UL) approved locks and lock cylinders, which are burglary resistant, non-residential, and commercial-grade.

- 4. All facility windows will be of reinforced glass and will be tinted, in addition to being monitored by the facility's central alarm system.
- 5. Employee proximity cards, access codes, and other access hardware credentials will be distributed on a limited and individual basis to pre-authorized essential Nautilus personnel. The Head of Security will ensure the Access Control System at the facility allows for programming or uploading individual user permissions and allowed entry times, as well as operations-specific information including employee photos. Access to the facility will be limited to Nautilus employees, medical patients, adult use customers and authorized adult visitors, including authorized representatives of the Department of Consumer Protection and other government officials when necessary to perform their official duties.
- 6. Ensure that the Access Control System monitors and records: a) the identity of all individuals entering and exiting the facility; b) all keycard entry and exit activity, including dates and times; c) lengths of time in specific areas; and d) any unauthorized access attempts. Records of limited access area entry will be maintained for at least one year and be made available to the Department of Consumer Protection for inspection purposes upon request.

Access Control- Medical Patients

Patient access control into Nautilus' dispensary facility is comprised of two main objectives: a) controlling and safeguarding access to certain areas where medical marijuana will be sold; and b) determining guidelines for the acceptable forms of identification that verify the lawful sale of medical marijuana to patients and caregivers.

The general public, qualifying patients, and primary caregivers will only enter the facility through one access point into an area where security personnel will screen individuals for qualifying patient or adult use age requirements, which requires a valid, government-issue ID. These IDs are then scanned and used to verify the name and birth date of the patient or adult use customer. Medical patients will also be required to show their state-issued medical card, which will be checked against their government-issued ID for name matching purposes.

No cannabis will be accessible in this area. Only qualifying patients, primary caregivers, and adult use customers will be allowed to enter any areas beyond the check-in area.

Access Controls- Visitors

Other than short-term contractors or vendors and officials from the Department of Consumer Protection ("DCP") and local law enforcement agencies, visitors are generally discouraged from Nautilus' dispensary facility. If visitor entry is requested, visitors must be accompanied by Nautilus employees or the Head of Security at all times. All visitors must sign in and out of the Nautilus Visitor Access Log and include the reason for their visit and the date of their visit. The visitor's valid, government-issued ID must match their name on the Visitor Access Log. Once they have been screened and passed, they will be given a visitor ID badge, which is required to be worn and visible to others at all times. Only employees with assigned access permissions to the dispensary may escort the visitor(s). Nautilus will maintain the Visitor Access Log and make it available to the DCP for inspection purposes upon request.

Signage Plan

We will adhere to and comply with the Stamford signage requirements for cannabis retailers. As such, we will have a sign on our building about 16" x 18" in size. There is an existing ground-mounted sign, which we plan to repurpose with the name of our dispensary. It will be approximately 5' high, with dimensions of 4' x 4'. As required, there will be no illumination nor cannabis-related graphics on any of our signs or windows.

Actions Needed to Facilitate the Project

The project requires a Special Permit under Section 5.E and Appendix A, Table I of the Zoning Regulations, and Coastal Site Plan approval from the Zoning Board under Section 15.A of the Regulations. Pursuant to Section 15.B.5(b) of the Regulations, the required Flood Hazard Area Permit review is performed as part of the Coastal Site Plan application. As discussed above, as a Hybrid Cannabis Retailer, the facility will be subject to the approval of the Connecticut Department of Consumer Protection. Because the proposed use is permitted by special permit in the C-N zone and the project more than meets all the criteria for a special permit for a Hybrid Cannabis Retailer, the special permit should be granted. Because the project will have no adverse impacts on coastal resources, and in fact will increase the resiliency of the existing structure by limiting areas below the base flood elevation to storage only, Coastal Site Plan approval should be granted.

The project site has ample parking, currently consisting of about 40 faintly-striped parking spaces. The Applicants will provide 21 newly-striped compliant spaces, five more than the 16 spaces required per zoning. Additional parking spaces are available on site if required. The Applicants therefore respectfully request waiver of the requirement of a Parking Management Plan. Additionally, the project does not involve an increase in Gross Floor Area of 5,000 sf. or more or meet any other criteria that would trigger either the need for Electric Vehicle charging spaces or any need to seek a waiver of this requirement. (Bicycle parking will be provided per zoning.)

As described in the accompanying traffic report prepared by Langan, the project will have no noticeable impact on traffic patterns in the area. Accordingly, the Applicants respectfully request exemption from the requirement of a Transportation Demand Management Plan.

Pursuant to Section 12.K.6.c of the Zoning Regulations, once they have the opportunity to consult with the City's bureau of Traffic, Transportation and Parking as to the feasibility and desirability of planting street trees along the property's frontage, the Applicants will plant the required number of small and/or medium-large street trees or will pay the required fee in lieu of such trees.

Lastly, pursuant to Section 12.K.4(5) of the Zoning Regulations, because there is an existing sidewalk along the Property's entire street frontage which is at least five feet, in a state of good repair, and meets all ADA requirements, the Applicants respectfully submit that no new sidewalk is required.

Conclusion

The Property is located in Master Plan Category 7 (Commercial Arterial). The purpose of this category is to provide for and protect business-oriented development (1) extending from the Downtown or (2) along major arterial routes. The proposed Hybrid Cannabis Retailer is a new business in the State, and the proposed location is on East Main Street, a major arterial roadway. Moreover, the proposed use also forwards the City's economic development initiatives. Luis Vega, Nautilus' majority owner, is a Connecticut native and social equity applicant who has met the requisite residency and income requirements for obtaining a license. Mr. Vega is committed to contributing to Stamford's already thriving business community by adding a new business that will contribute jobs and revenue.

The Applicants propose to operate a desirable retail use in an appropriate retail/restaurant space. The proposed use will provide economic benefits to the neighborhood and add vitality. Furthermore, it will increase Stamford's tax base. Accordingly, the proposed use is in accordance with the public convenience and welfare.

SCHEDULE A PROPERTY DESCRIPTION

All that certain piece, parcel or tract of land, with the buildings and improvements thereon, situated in the city of Stamford in the county of Fairfield and state of Connecticut, bounded and described as follows:

NORTHERLY:	29.83 feet by land now or formerly of Ida T. Falby;
NORTHEASTERLY:	56.29 feet and
EASTERLY:	31.70 feet and again
NORTHERLY:	32.05 feet, then again
EASTERLY:	180.92 feet all by the Noroton River;
SOUTHEASTERLY:	35.76 feet by land now or formerly of the State of Connecticut;
SOUTHERLY:	60 feet by East Main Street;
WESTERLY:	157.34 feet and again
SOUTHERLY:	39.57 feet all by land now or formerly of Gulf Oil Corporation;
WESTERLY:	150.06 feet by land now or formerly of Bertha Franchina.

Said premises being known and designated as Plot B as shown and delineated on a certain map entitled "Map Showing Subdivision of Property Owned by Philip T. Franchina, Stamford, Conn.", now on file in the office of the town clerk of said Stamford and numbered 6218, reference thereto being had.

STATEMENT OF FINDINGS UNDER SECTION 19.C.2

1308 East Main Street

Nautilus Botanicals EJV1 LLC ("Nautilus") and 1308 East Main Street LLC (collectively, the "Applicants") are proposing a Hybrid Cannabis Retailer at 1308 East Main Street, Stamford (the "Property"). The Special Permit request is detailed in the enclosed Project Description.

A. Statement of Findings in Accordance with Section 19.C.2 of the Zoning Regulations

In accordance with Section 19.C.2 of the Zoning Regulations, the Applicants submit that the following standards and conditions have been satisfied:

Special Permits shall be granted by the reviewing board only upon a finding that the proposed use or structure or the proposed extension or alteration of an existing use or structure is in accord with the public convenience and welfare after taking into account, where appropriate:

1. The location and nature of the proposed site including its size and configuration, the proposed size, scale and arrangement of structures, drives and parking areas and the proximity of existing dwellings and other structures.

Nautilus proposes to operate a $6,072\pm$ square foot Hybrid Cannabis Retailer on the Property. The Property is located in the C-N zone, which has been identified as a permitted location for cannabis retail use. The Property is an ideal location for a retail use, as it is an end lot bordering the Noroton River and located on a main arterial road. It also has ample parking for customers, currently containing 40 faintly-striped parking spaces. The Applicants will re-stripe the parking lot to provide a total of 21 zoning-compliant spaces, five more than the 16 spaces required per zoning. The building on the Property was constructed in around 1959 and has been used as a restaurant. The proposed use would simply substitute a new retail use for the current restaurant use, with all renovations within the existing footprint. The small portion of the rear of the existing structure that is below the Base Flood Elevation will be limited solely to use as storage and fitted with flood vents, increasing its resiliency. The modest proposed second-floor addition in the rear is lower than the ridgeline of the existing second-story roof in the front of the building, and thus will not materially alter the building's visual impact. Moreover, the Property is adjacent to many other commercial uses - including commercial office buildings directly to the west and southwest. As noted, the Property is bordered by East Main Street to the south and the Noroton River to the east, and it has a wooded buffer area to the north. Accordingly, the proposed use is appropriate for the surrounding neighborhood and this project is in accord with the public convenience and welfare.

2. The nature and intensity of the proposed use in relation to its site and the surrounding area. Operations in connection with special permit uses shall not be injurious to the

neighborhood, shall be in harmony with the general purpose and intent of these Regulations, and shall not be more objectionable to nearby properties by reason of noise, fumes, vibration, artificial lighting or other potential disturbances to the health, safety or peaceful enjoyment of property than the public necessity demands.

The Property is in the C-N zone, which permits a variety of commercial uses. It has been used for commercial purposes since it was originally constructed in 1959. The proposed use is retail, which is consistent with the prior and current restaurant uses of the Property, as well as the current uses of the commercial office buildings to its immediate west and southwest. The proposed use poses no risk to nearby properties by reason of noise, fumes, vibration, artificial lighting or other potential disturbances to health, safety, or peaceful enjoyment of property. In fact, as a highly regulated industry, the Hybrid Cannabis Retailer offers significantly more assurances with regard to health, safety and peaceful enjoyment than many other uses permitted as-of-right on the Property. Details regarding strict operational policies and protocols are included in the attached narrative. Accordingly, the Applicants submit that the proposed use is appropriate for the neighborhood and will not be objectionable to nearby properties.

3. The resulting traffic patterns, the adequacy of existing streets to accommodate the traffic associated with the proposed use, the adequacy of proposed off-street parking and loading, and the extent to which proposed driveways may cause a safety hazard, or traffic nuisance.

Nautilus has engaged Langan to conduct a comprehensive traffic analysis. In connection with this study, Langan evaluated the two intersections near the Property along East Main Street. Langan determined that all individual movements at these intersections are expected to operate at acceptable levels of service during weekday A.M. and P.M. and Saturday midday peak hours, and that the individual movements are not expected to cause any decrease in Level of Service. Indeed, Langan concluded that there would be no noticeable impact on traffic patterns in the area versus a No-Build scenario. Ample parking will be provided onsite – the site currently has about 40 faintly-striped spaces. The Applicants will provide a total of 21 zoning-compliant parking spaces, more than the 16 required per zoning. Accordingly, the proposed development will not negatively impact traffic patterns or cause safety hazards.

4. The nature of the surrounding area and the extent to which the proposed use or feature might impair its present and future development.

The proposed use is in harmony with the prior and current use of the Property and surrounding areas. In addition, the proposed use is safe and secure, quiet, and has proven successful at the other recently approved locations as well as in other states. The Property is suitably distant from the other locations so as to provide a more convenient option for palliative and adult-use customers located in eastern Stamford. The Hybrid Cannabis Retailer will productively occupy the space and provide significant tax revenue (3% gross revenue) to the City of Stamford. It is a neighborhood commercial use in a neighborhood commercial zone. There is no reason to believe the use will impair present or future development.

5. The Master Plan of the City of Stamford and all statements of the purpose and intent of these regulations.

The Property is located in Master Plan Category 7 (Commercial Arterial). The purpose of this category is to provide for and protect business-oriented development (1) extending from the Downtown or (2) along major arterial routes. The proposed Hybrid Cannabis Retailer is a new business in the State and the proposed location is on East Main Street, a major arterial roadway. Moreover, the proposed use also forwards the City's economic development initiatives. Luis Vega, Nautilus' majority owner, is a Connecticut native and social equity applicant who has met the requisite residency and income requirements for obtaining a license. Mr. Vega is committed to contributing to Stamford's already thriving business community by adding a new business that will contribute jobs and revenue.

The Applicants propose to operate a desirable retail use in an appropriate retail/restaurant space. The proposed use will provide economic benefits to the neighborhood and add vitality. Furthermore, it will increase Stamford's tax base. Accordingly, the proposed use is in accordance with the public convenience and welfare.

B. Statement of Findings in Accordance with the Definition of Hybrid Cannabis Retailer

In accordance with the definition of a Hybrid Cannabis Retailer, the Applicants submit that the following standards and conditions have been satisfied:

a. Hybrid Cannabis Retailers must possess a current license from the State of Connecticut Department of Consumer Protection. Failure to maintain proper licenses shall be deemed an immediate violation of the City of Stamford Zoning Regulations.

Use of the Property as a Hybrid Cannabis Retailer is heavily regulated by the State and a license is required from the Connecticut Department of Consumer Protection ("DCP") to operate. On November 21, 2022, Nautilus Botanicals, LLC ("Nautilus Botanicals") was awarded a provisional Section 149 cannabis cultivation license (License No. ACCE.0000005) pursuant to Section 21a-420(o) of the Connecticut Responsible and Equitable Regulation of Adult-Use Cannabis Act ("RERACA"). This license entitles Nautilus Botanicals to form an equity joint venture for the purpose of opening a Hybrid Cannabis Retailer subject to approval by the City, Connecticut Social Equity Council, and final licensure from the DCP. Nautilus is a subsidiary of Nautilus Botanicals LLC and is a joint venture between Luis Vega and Merida Capital IV LP and its affiliates. Nautilus Botanicals will acquire and maintain all required licenses from DCP to operate a Hybrid Cannabis Retailer facility on the Property.

b. No Adult-Use Cannabis Retailers shall be located within a 3,000 feet radius of any other Dispensary, or within 1,000 feet of public or non-public schools;

There are currently two other Hybrid Cannabis Retailers in Stamford – Fine Fettle (12 Research Drive) and Curaleaf (814 East Main Street). Both of these businesses are located outside a 3,000 feet radius of the Property. The Property is not located within 1,000 feet of a public or non-public school.

c. Signage for Hybrid Cannabis Retailers shall be the more restrictive of either (1) the requirements of the State of Connecticut relating to signage for Ad u l t -Us e Cannabis Retailers or (2) the sign regulations for the respective zoning district as prescribed in Section 13 of these regulations. In addition, the following limitations shall apply:

(1) There shall be no illumination of a Sign advertising adult-use cannabis products at any time;

(2) There shall be no signage that advertises adult use cannabis brand names or utilizes graphics related to marijuana or paraphernalia on the exterior of the Dispensary or the Building in which the Dispensary is located;

(3) There shall be no display of adult use cannabis or paraphernalia within the facility which is clearly visible from the exterior of the facility; and

(4) There shall be no signage on the exterior of the facility which advertises the price of its adult-use cannabis.

The Applicants are happy to accept a condition of approval requiring all signage to conform to this requirement with final design subject to approval by Zoning Board staff.

d. Parking shall be provided according to Section 12 of the Zoning Regulations, following the parking standard for Retail Store.

Section 12 of the Zoning Regulations provides that parking for Retail Stores shall be provided at a rate of four (4) spaces per 1,000 square feet of Gross Floor Area. The total square footage of the building is $6,072\pm$ square feet. Of this space, $1,191\pm$ square feet will be used as retail, $2,689\pm$ square feet for office and $2,192\pm$ square feet will be used as storage. This results in a maximum of sixteen (16) parking spaces required; the site currently has forty (40) faintly-painted parking spaces on site, and the Applicants will restripe the parking lot to provide a total of twenty-one (21) zoning-compliant spaces, including a handicapped-accessible space in front of the building. Bike parking will be provided per zoning. This is more than sufficient for the proposed use.

> THE APPLICANTS. NAUTILUS BOTANICALS EJV1 LLC and 1308 EAST MAIN STREET LLC

By: /s/ Leonard M. Braman Leonard M. Braman, Esq. Wofsey, Rosen, Kweskin & Kuriansky, LLP 600 Summer Street Stamford, CT 06901-1490 T: 203-327-2300/F: 203-967-9273 Juris No.: 068550

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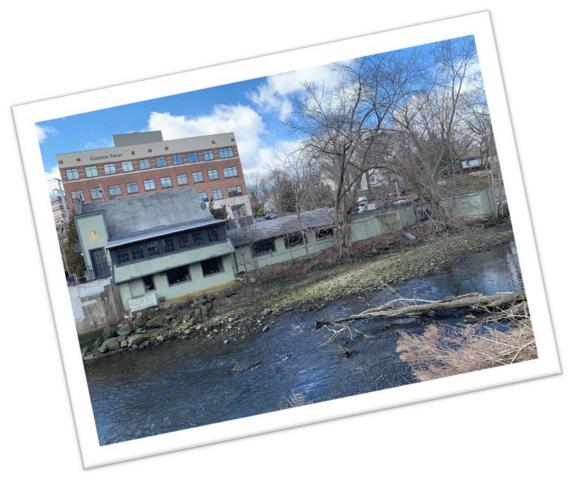
Civil / Site Engineering · Site Planning Environmental Science & Engineering Landscape Architecture · Land Surveying Permit Coordination & Management Construction Management & Financing

COASTAL RESOURCE EVALUATION for the RENOVATION and ADDITION TO EXISTING BUILDING

Prepared for:

1308 East Main Street

Stamford, CT



March 18, 2024

INTRODUCTION

This report identifies the existing coastal resources on and adjacent to the property at 1308 East Main Street in Stamford, CT. It provides an evaluation of potential impacts to the coastal resources associated with the renovation of the existing building on the property in accordance with Chapter 444 Section 22a-90 through 22a-112 of the Connecticut General Statutes, known as the "Coastal Management Act", and follows the guidelines provided in the Connecticut Coastal Management Manual prepared by the Connecticut Department of Environmental Protection (September 2000).

EXISTING CONDITIONS

The property is 0.5 acres in size (21,680± sf) and is completely developed, containing an existing restaurant building and parking lot. The property is situated along the western bank of the Noroton River and is within its flood plain. The narrow riparian buffer is dominated by a mature red maple (*Acer rubrum*) and red oak (*Quercus rubra*) overstory with an understory dominated by Japanese knotweed (*Polygonum cuspidatum*) and Japanese honey suckle (*Lonicera japonica*) which provide shade to the river. The Noroton River flows south into Holly Pond. We measured the salinity of the river at high tide and confirmed the river to be freshwater.

DESCRIPTION OF PROPOSED PROJECT

The southern end of the building consists of two stories with the top story accessible from the side walk. The property slopes down as you enter the property with a parking lot north of the building. The northern section of the building is a one story rectangular area with similar elevation to the parking lot. The contract purchaser of 1308 East Main Street proposes to renovate the two-story section providing retail space on the upper story and storage on the lower story. A second story addition will be added on top of the existing one-story section of the building. The area below the second story will be limited to storage throughout the building. There will be no change to the footprint of the building or the parking lot as part of this project.

The building use will be converted from restaurant to commercial retail/office. As the building is in the floodplain, flood vents will be installed on the first floor to allow stormwater to pass through the building during significant storm events.

The proposed site plan is subject to review and approval by the City of Stamford's Zoning Board and Environmental Protection Board under Coastal Area Management regulations.

DESCRIPTION OF COASTAL RESOURCES

Policies have been established by the State to protect the existing coastal resources. Coastal Resources on and adjacent to the site were identified from the <u>Coastal Resources</u> Norwalk South quadrangle map, prepared by the Coastal Area Management Program of the Connecticut Department of Environmental Protection, dated 1979. This information was then field verified and adjusted if necessary.

The property is not adjacent to coastal waters and will not impact coastal resources. The project requires a coastal site plan review as it is within 200 feet of coastal resources and involves a change in use. It is these conditions that bring this application in front of the Zoning Board and Environmental Protection Board.

Applicable Coastal Resources

The coastal resources applicable to this project are discussed below.

• Coastal "Flood" Hazard Areas

The Coastal Hazard Area is identified by the portion of a property within the 100-year flood zone. For this property the flood zone is set at elevation 10 (NAVD) as depicted on Federal Flood Insurance Rate Map (FIRM) Number 09001C0517G, effective 7/8/2013. The AE-10 Flood Zone Line goes through the eastern third of the parking lot and bisects the building. The remainder of the property lies within Zone "X".

Shorelands

Shorelands are those areas of the property which lie above the 100-year flood elevation, in this case elevation 10. Shorelands are located in the western two thirds of the parking lot and the western portion of the building.

Applicable Coastal Uses

Coastal Uses are those uses of general public access, addition or expansion of septic system/sewer or water lines, addition of shoreline erosion control structures, changes or improvements to stormwater management, addition of vegetated buffers or water dependent uses as defined in the Connecticut General Statutes.

CONSISTENCY OF COASTAL RESOURCE POLICIES:

The project is limited to the interior renovation of the existing building and an addition on to the northern portion of the building with no change to footprint.

The following coastal resources are applicable to the proposed activities.

Coastal Flood Hazard Area

The project is consistent with applicable coastal resource policies as all of the retail space will be at elevation 15 which is well above the 100 year flood elevation of 10. The lower level of the building, which is below elevation 10, will only be used as storage. Flood vents will be installed on the first floor to allow stormwater to flow under the building during high flows. No alterations to the shoreline are proposed and no changes to existing erosion/sedimentation patterns, water circulation patterns or fresh water/saltwater exchange patterns of the site will occur.

• Shorelands

The project is consistent with these applicable policies as it does not alter the water quality of the adjacent Noroton River or Holly Pond.

CONSISTENCY WITH COASTAL USE POLICIES

The project is limited to the internal renovations and second story addition to the existing building. The project is consistent with applicable policies as there are no changes to drainage and the building will continue to utilize existing sewer and water services so no new uses apply to this project. The project does not propose any new flood and erosion control structures and the existing vegetated buffer will remain and not be impacted. The property is private and does not contain public access areas or water dependent uses.

Potential Adverse Impacts:

The proposed renovation of the building is within the 200-foot regulated area of Holly Pond.

The proposed project does not incur any of the adverse impacts outlined in the <u>Connecticut Coastal</u> <u>Management Manual</u>, as the project does not: degrade water quality; degrade circulation patterns;

degrade erosion or drainage patterns through the significant alteration of groundwater flow; degrade natural features of public vistas or view points; increase the hazard of coastal flooding through the alteration of shoreline bathymetry; degrade wildlife, finfish or shellfish habitat, or alter or degrade tidal wetlands, beaches, or rocky shorefronts.

As the project is limited to internal renovations and the construction of a second story addition with no soil disturbance, the potential for environmental impacts resulting from erosion and sedimentation is minimal. All construction materials will be stored in the existing parking lot, no material will be stored in the vegetated riparian area of the river. During and after construction, the surface stormwater runoff patterns will remain the same as they are now.

Conclusion:

The above detailed assessment finds that the proposed site development is consistent with all applicable coastal policies as outlined in the Connecticut Coastal Management Manual. The project is limited to internal renovations and a second story addition within the existing building footprint and no soil disturbance. Therefore, no impacts to coastal resources are expected.

Respectively submitted

Kenos Kyl

LANDTECH Thomas Ryder, Certified Ecologist

LANGAN

	555 Long Wharf Drive New Haven, CT 06511 T: 203.562.5771 F: 203.789.6142
То:	Zoning Board, Stamford
From:	Christopher McLean, P.E.
Date:	19 March 2024
Re:	Traffic Impact Assessment Proposed Cannabis Dispensary 1308 East Main Street Stamford, Connecticut Langan Project No.: 140285101

Langan has evaluated the anticipated traffic impacts of Nautilus Botanicals EJV1 LLC's ("Nautilus") planned conversion of an existing $\pm 4,300$ square-foot (SF) restaurant at 1308 East Main Street in Stamford, Connecticut into a cannabis dispensary. Nautilus intends to retrofit the existing restaurant into a cannabis dispensary with minor modification to the existing building. The dispensary is expected to open in late 2024 or early 2025. Our analysis indicated that the change in traffic generated by the proposed conversion will not have a noticeable impact on traffic operations in the area.

PROJECT DESCRIPTION

The 0.5-acre project site is located at 1308 East Main Street in Stamford, CT. The site is bordered by woodland to the north, the Noroton River to the east, East Main Street (U.S. Route 1) to the south, and an office building (Chilton Trust Co.) to the west. The project site is currently occupied by a ±4,300 SF restaurant, "The Boatyard at Smokey Joe's BBQ". Nautilus proposes to convert the existing restaurant to a retail cannabis dispensary. The site is accessed by one full-access driveway connection to East Main Street. Minor modification to the existing building is proposed as part of the change, including renovating a portion of the building for storage only. Approximately ±3,900 SF will be permitted as the proposed dispensary.

STUDY AREA

The study area for this evaluation was selected in consultation with City of Stamford staff. The following intersections were included in the study area:

- East Main Street (US Route 1) and Hamilton/Waterbury Ave
- East Main Street (US Route 1) and Weed Ave



Both intersections were counted during the weekday morning (6:30 to 9 AM) and evening (3:30 to 6:30 PM) commuter peak periods on Friday, February 23, 2024, and on Saturday, February 24, 2024, between 11 AM and 2 PM to coincide with the Saturday mid-day peak traffic period. The data collected reveals that the peak hours within the study area occur between 8:00 AM and 9:00 AM during the weekday morning, 3:30 PM and 4:30 PM during the weekday evening and 1:00 PM and 2:00 PM on Saturday. The existing peak hour traffic volumes are shown in **Figure 3** in the appendix.

FUTURE CONDITIONS

The observed 2024 traffic volumes were adjusted to reflect projected volumes upon the project's anticipated completion date in 2025. This was done by adding a general background growth factor and specific traffic volumes from expected new projects in the area. The additional traffic volumes from both these sources were added to the 2024 existing volumes to generate the 2024 "No-Build" traffic volumes. The No-Build condition is defined as the future volumes in the study area without the planned conversion (assumes the restaurant remains in operation).

A background growth factor of 0.6% was selected based on rates used in other recent studies in the area. City of Stamford officials did not identify significant planned site-specific generators that may affect the study area traffic volumes. As such, the background growth factor was applied exclusively to generate the 2025 No-Build traffic volumes shown in **Figure 4**.

TRIP GENERATION COMPARISON

The trip generation for the existing restaurant was compared to that of the proposed dispensary using trip generation data contained in the ITE *Trip Generation Manual*, 11th Edition¹.

Land Use Code 932 – High-Turnover (Sit-Down) Restaurant was chosen to estimate the trips currently generated by the existing restaurant. This is compared to LUC 882 – Marijuana Dispensary to estimate the anticipated trips for the proposed dispensary. The existing building square footage (±4,300 SF) was used to calculate the trip generation for the existing and proposed land uses. The permitted proposed dispensary is planned to have less active (non-storage) building area than the existing restaurant, subject to final zoning and building department approval. Detailed ITE Trip Generation excerpts are included in the appendix. **Table 1** below shows the resulting net new trips of the redevelopment during the weekday AM, weekday PM, and Saturday mid-day peak-hour periods.

¹ Trip Generation Manual, 11th Edition published by the Institution of Transportation Engineers (ITE).



ANTI	CIPATEI	D TRIP GI	ENERA		BLE 1 308 EAS		N STRE	ET, STAI	MFOR)
	LAND	AM F	PEAK H	OUR	PM F	PEAK H	OUR	SAT	PEAK H	IOUR
USE	USE CODE ¹	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
Existing Restaurant (4,300 SF)	932 ²	0	0	0	24	15	39	24	24	48
Marijuana Dispensary (4,300 SF)	882 ³	23	22	45	41	40	81	62	62	124
Net Change		+23	+22	+45	+17	+25	+42	+38	+38	+76

¹ Land Use Codes based on ITE Trip Generation Manual 11th Edition

² Volume based on ITE Trip Generation Manual 11th Edition: Land Use Code 932: High-Turnover (Sit-Down) Restaurant

³ Volume based on ITE Trip Generation Manual 11th Edition: Land Use Code 882: Marijuana Dispensary

The resulting trip generation calculations indicate that the proposed redevelopment would result in a net increase of 45 morning peak hour trips (23 in, 22 out), 42 evening peak hour trips (17 in, 25 out) and 76 Saturday mid-day peak hour trips (38 in, 38 out).

Trip Distribution and 2025 Build Conditions

Langan estimated trip distribution percentages for the anticipated traffic generated by the proposed development based on existing traffic patterns and available CTDOT data in the vicinity of the site. We estimate that approximately 60% of users will access the site via East Main Street from the west and the remaining 40% will access the site from the east based on this data. The estimated trip increase on the site was then assigned to the roadway. **Figure 5** in the appendix shows the estimated trip distribution percentages and **Figure 6** shows the trips assigned to the roadway network based on the anticipated trip generation numbers for the development.

The 2025 Build traffic volumes were developed by combining the 2025 No Build traffic volumes from **Figure 4** with the anticipated trip generation increase resulting from the proposed conversion shown in **Figure 6**. The 2025 Build conditions were then evaluated during the roadway peak-hour periods using the volumes shown in **Figure 7** in the appendix.

MEMO

CAPACITY ANALYSIS

The evaluation criteria used to analyze the study intersections is based on the *Highway Capacity Manual* (HCM) 7th Edition, published by the Transportation Research Board (TRB). SYNCHRO 12 capacity analysis software was used to facilitate computer calculation for the capacity analysis at the study intersections. **Tables 2, 3 and 4** below compare the Level-of-Service (LOS), Control Delay per Vehicle (sec/veh) and queue lengths for the 2024 Existing Conditions, 2025 No Build and Build Conditions at the study intersections and the existing site driveway.

As can be seen in **Tables 2, 3, and 4**, the 2025 Build Conditions will not result in a decline in level-of-service versus the 2025 No Build Conditions. Individual movements and lane groups may change slightly in delay and queue length; however, overall and movement levels-of-service at these signalized intersections remain unchanged with nominal impacts to intersection delays. Accordingly, traffic to and from the new facility will not have a measurable impact on traffic operations in the area according to the analysis results below.

								TABLE 2										
	11							IMARY - WE	EKDAY									
			STORAGE		2024 EXI	STING A		-		2025 NO	BUILD AN				2025 E		CONDITION	-
INTERSECTION	CONTROL TYPE	LANE USE	LENGTH (ft)	LOS	DELAY	V/C RATIO	QUEUES (ft)	QUEUES (ft)	LOS	DELAY	V/C RATIO	QUEUES (ft)	QUEUES (ft)	LOS	DELAY	V/C	QUEUES (ft)	QUEUES (ft)
			(14)		(sec)	RATIO	50th%	95th%		(sec)	RATIO	50th%	95th%		(sec)	RATIO	50th%	95th%
		Overall		В	14.8	0.69			В	14.7	0.69			В	14.6	0.7		
		EB-L	125'	А	3.4	0.12	12'	28'	А	3.4	0.12	12'	28'	А	3.5	0.13	13'	28'
		EB-TTR	275'	А	4.9	0.11	22'	51'	А	4.9	0.11	22'	51'	А	5	0.12	23'	54'
East Main Street &		WB-L	50'	А	2.5	0.01	2'	5'	А	2.5	0.01	1'	5'	А	2.5	0.01	2'	5'
Waterbury Avenue /	ACTUATED- COORDINATED	WB-TTR	135'	А	5.8	0.18	38'	40'	А	5.8	0.18	38'	41'	А	5.7	0.19	40'	41'
Hamilton Avenue	COONDINATED	NB-L	120'	D	51.4	0.27	27'	52'	D	51.4	0.27	27'	52'	D	51.1	0.27	27'	52'
		NB-TR	120'	С	31.3	0.16	14'	38'	С	31.3	0.16	14'	38'	С	31.1	0.15	14'	38'
		SB-LT	>500'	E	71.4	0.68	84'	125'	Е	71.4	0.68	84'	125'	Е	71.8	0.69	86'	127'
		SB-R	75'	В	12.7	0.37	0'	38'	В	12.7	0.37	0'	38'	В	12.6	0.37	0'	38'
		Overall		Α	9.3	0.51			Α	9.2	0.51			Α	9.6	0.51		
		EB-L	50'	А	3.3	0.05	9'	14'	А	3.3	0.05	9'	14'	А	3.3	0.05	9'	14'
		EB-TTR	135'	А	6.4	0.13	67'	51'	А	6.3	0.13	67'	51'	А	7.4	0.15	70'	52'
East Main Street & Weed	ACTUATED-	WB-L	100'	А	2.1	0.09	8'	16'	А	2.1	0.09	8'	16'	А	2.2	0.1	8'	17'
Avenue	COORDINATED	WB-TTR	180'	А	4.4	0.16	44'	58'	А	4.4	0.16	45'	58'	А	4.7	0.17	46'	61'
		NB-LT	200'	E	68.4	0.51	43'	69'	Е	68.4	0.51	43'	69'	Е	68.4	0.51	43'	69'
		NB-R	75'	В	16.7	0.39	0'	29'	В	16.7	0.39	0'	29'	В	16.6	0.41	0'	29'
		SB-LTR	50'	D	48.5	0.01	1'	8'	D	48.5	0.01	1'	8'	D	48.5	0.01	1'	8'
		EB	50'	-	-	-	-	-	-	-	-	-	-	А	8.3	0.02	0'	0'
Site Driveway & East Main Street	UNSIGNALIZED	WB	100'	-	-	-	-	-	-	-	-	-	-	А	0	0	0'	0'
Sileet		SB	75'	-	-	-	-	-	-	-	-	-	-	В	11.6	0.05	0'	3'

								TABLE 3												
					САРАС	ITY ANA	LYSIS SUN	I ABLE 3 IMARY - WE	EKDAY	P.M. PEAK	-HOUR									
				2024 EXISTING PM CONDITIONS						2025 NO BUILD PM CONDITIONS					2025 BUILD PM CONDITIONS					
INTERSECTION	CONTROL TYPE	LANE USE	STORAGE LENGTH (ft)	LOS	DELAY	V/C	QUEUES (ft)	QUEUES (ft)	LOS	DELAY	V/C RATIO	QUEUES (ft)	QUEUES (ft)	LOS	DELAY	_	QUEUES (ft)	QUEUES (ft)		
			(14)		(sec)	RATIO	50th%	95th%		(sec)	RATIO	50th%	95th%		(sec)	RATIO	50th%	95th%		
		Overall		В	15.8	0.74			В	15.8	0.74			В	15.8	0.74				
		EB-L	125'	А	4.3	0.11	14'	35'	А	4.3	0.11	14'	35'	А	4.3	0.11	14'	35'		
		EB-TTR	275'	А	6.3	0.26	74'	162'	А	6.3	0.27	75'	163'	А	6.4	0.27	76'	166'		
East Main Street &		WB-L	50'	А	6	0	1'	3'	А	6	0	1'	3'	А	5.6	0.01	2'	4'		
Waterbury Avenue /	ACTUATED- COORDINATED	WB-TTR	135'	В	12	0.13	62'	101'	В	12.1	0.13	63'	102'	В	12	0.14	65'	105'		
Hamilton Avenue		NB-L	120'	D	46.6	0.22	23'	52'	D	46.5	0.22	23'	52'	D	46.3	0.22	23'	52'		
		NB-TR	120'	С	25	0.1	9'	34'	С	24.9	0.1	9'	34'	С	24.8	0.1	9'	34'		
		SB-LT	>500'	E	69.5	0.74	111'	173'	E	69.3	0.73	112'	173'	E	69.3	0.74	114'	175'		
		SB-R	75'	В	11.4	0.24	0'	39'	В	11.4	0.24	0'	39'	В	11.3	0.23	0'	39'		
		Overall		Α	8	0.53			Α	8	0.53			Α	8	0.53				
		EB-L	50'	А	2	0	0'	0'	А	2	0	0'	0'	А	2	0	0'	0'		
		EB-TTR	135'	А	4.7	0.33	97'	113'	А	4.7	0.33	97'	114'	А	4.8	0.34	98'	115'		
East Main Street & Weed	ACTUATED-	WB-L	100'	А	2.6	0.14	7'	18'	А	2.6	0.14	7'	18'	А	2.7	0.15	8'	19'		
Avenue	COORDINATED	WB-TTR	180'	А	3.3	0.09	16'	42'	А	3.3	0.09	16'	42'	А	3.3	0.09	17'	44'		
		NB-LT	200'	E	67.7	0.53	49'	89'	E	67.7	0.53	49'	89'	Е	67.7	0.53	49'	89'		
		NB-R	75'	В	15.7	0.45	0'	48'	В	15.7	0.45	0'	48'	В	15.7	0.46	0'	49'		
		SB-LTR	50'	А	0.6	0.06	0'	0'	А	0.6	0.06	0'	0'	А	0.6	0.06	0'	0'		
		EB	50'	-	-	-	-	-	-	-	-	-	-	А	8	0.03	0'	0'		
Site Driveway & East Main Street	UNSIGNALIZED	WB	100'	-	-	-	-	-	-	-	-	-	-	А	0	0	0'	0'		
Street		SB	75'	-	-	-	-	-	-	-	-	-	-	В	12.9	0.1	0'	8'		

								TABLE 4												
							<u>SIS SUMM/</u> AT CONDITI		RDAY MID-DAY PEAK-HOUR 2025 NO BUILD SAT CONDITIONS						2025 BUILD SAT CONDITIONS					
INTERSECTION	CONTROL TYPE	LANE USE	STORAGE LENGTH		DELAY	V/C	QUEUES (ft)	QUEUES (ft)	LOS	DELAY	V/C	QUEUES (ft)	QUEUES (ft)	LOS	DELAY		QUEUES (ft)	QUEUES (ft)		
			(ft)		(sec)	RATIO	50th%	95th%		(sec)	RATIO	50th%	95th%		(sec)	RATIO	50th%	95th%		
		Overall		В	14.6	0.68			В	14.6	0.68			В	14.3	0.68				
		EB-L	125'	А	3.5	0.1	11'	28'	А	3.5	0.1	11'	28'	А	3.5	0.1	11'	28'		
		EB-TTR	275'	А	4.6	0.11	23'	58'	А	4.7	0.11	23'	58'	А	4.7	0.11	24'	61'		
East Main Street &		WB-L	50'	А	3.6	0	1'	3'	А	3.6	0	1'	3'	А	4	0	1'	3'		
Waterbury Avenue /	ACTUATED- COORDINATED	WB-TTR	135'	А	7.9	0.13	46'	101'	А	8	0.13	46'	101'	А	7.8	0.14	46'	104'		
Hamilton Avenue		NB-L	120'	D	40.6	0.07	7'	22'	D	40.5	0.07	7'	22'	D	40.5	0.07	7'	22'		
		NB-TR	120'	С	30.2	0.08	8'	28'	С	30.2	0.08	8'	28'	С	30.2	0.08	8'	28'		
		SB-LT	>500'	E	64.9	0.68	79'	130'	Е	65	0.68	80'	131'	Е	65	0.68	80'	131'		
		SB-R	75'	А	9.4	0.24	0'	30'	А	9.4	0.24	0'	30'	А	9.4	0.24	0'	30'		
		Overall		В	12.5	0.61			В	12.4	0.61			В	12.2	0.61				
		EB-L	50'	А	0	0	0'	0'	А	0	0	0'	0'	А	0	0	0'	0'		
		EB-TTR	135'	А	8.8	0.16	71'	52'	А	8.8	0.16	72'	52'	А	8.8	0.17	75'	53'		
East Main Street & Weed	ACTUATED-	WB-L	100'	А	2.9	0.12	11'	26'	А	2.9	0.12	11'	26'	А	3	0.12	11'	26'		
Avenue	COORDINATED	WB-TTR	180'	А	3.2	0.09	17'	33'	А	3.2	0.09	17'	33'	А	3.2	0.1	19'	36'		
		NB-LT	200'	Е	63.2	0.6	63'	109'	Е	63.2	0.6	63'	109'	Е	63.2	0.6	63'	109'		
		NB-R	75'	В	13	0.3	0'	38'	В	13	0.3	0'	38'	В	13	0.3	0'	38'		
		SB-LTR	50'	А	0	0.06	0'	0'	А	0	0	0'	0'	А	0	0	0'	0'		
		EB	50'	-	-	-	-	-	-	-	-	-	-	А	8.1	0.04	0'	3'		
Site Driveway & East Main Street	UNSIGNALIZED	WB	100'	-	-	-	-	-	-	-	-	-	-	А	0	0	0'	0'		
Street		SB	75'	-	-	-	-	-	-	-	-	-	-	В	11.8	0.12	0'	10'		

MEMO

SAFETY ANALYSIS

Intersection Sight Distance

Langan evaluated the sight distances at the site driveway on East Main Street to determine if the available sight distances meet the minimum requirements established by the Connecticut Department of Transportation (CTDOT) Highway Design Manual. A CTDOT Traffic Monitoring Station, DARI-001, is located approximately 750-feet east of the site driveway on East Main Street, which has volume and speed data from 2023. Based on the available data, the 85th percentile speed of the roadway was calculated to be 45 MPH in the vicinity of the site driveway. A summary of the available and required sight distances at the site driveway can be seen below in **Table 5**.

TABLE 5 INTERSECTION SIGHT DISTANCE SUMMARY									
LOCATION	Design Speed	Intersection Sight Distance Passenger Car ¹							
	-	Required	Provided						
East Main Street & Site Driveway Right Turn from Stop Left Turn from Stop	45 mph	500 ft 565 ft	550 ft >1,000 ft						

¹ Passenger Car ISD, for turning movement from stop on minor street approach.

As shown, the intersection sight distances (ISDs) provided at the site driveway meet CTDOT's minimum requirements.

<u>Crash Analysis</u>

Langan obtained the most recent three years (2021 through 2023) of accident data that occurred within a 100-foot radius of each study intersection from the UConn Crash Data Repository.

Table 6 provides a summary of the accident data. A total of 11 accidents occurred over the 3year period.



TABLE 6 ACCIDENT DATA SUMMARY (2021 - 2023)																
INTERSECTION	NUMBER OF ACCIDENTS			SEVERITY			CONDITIONS									
	Total	Average Per Year	Da	operty amage Only		ersonal njury	Fa	tality	Cle	ear (Dry)		Rain/ Snow		Day	ſ	Night
East Main Street & Waterbury Avenue	6	2.00	5	(83%)	1	(17%)	0	(0%)	6	(100%)	0	(0%)	5	(83%)	1	(17%)
East Main Street & Weed Avenue	5	1.67	3	(60%)	2	(40%)	0	(0%)	5	(100%)	0	(0%)	4	(80%)	1	(20%)
TOTAL	11	3.67	8	(73%)	3	(27%)	0	(0%)	11	(100%)	0	(0%)	9	(82%)	2	(18%)

Source: UConn Crash Data Repository (2021 - 2023)

Accidents included angle collisions, rear-ends, head-on collisions, sideswipe (same direction), and fixed object/single vehicle crashes. Three (27%) of the reported accidents included injuries. No fatalities were reported. All accidents occurred during dry weather conditions and majority occurred during daylight hours (82%).

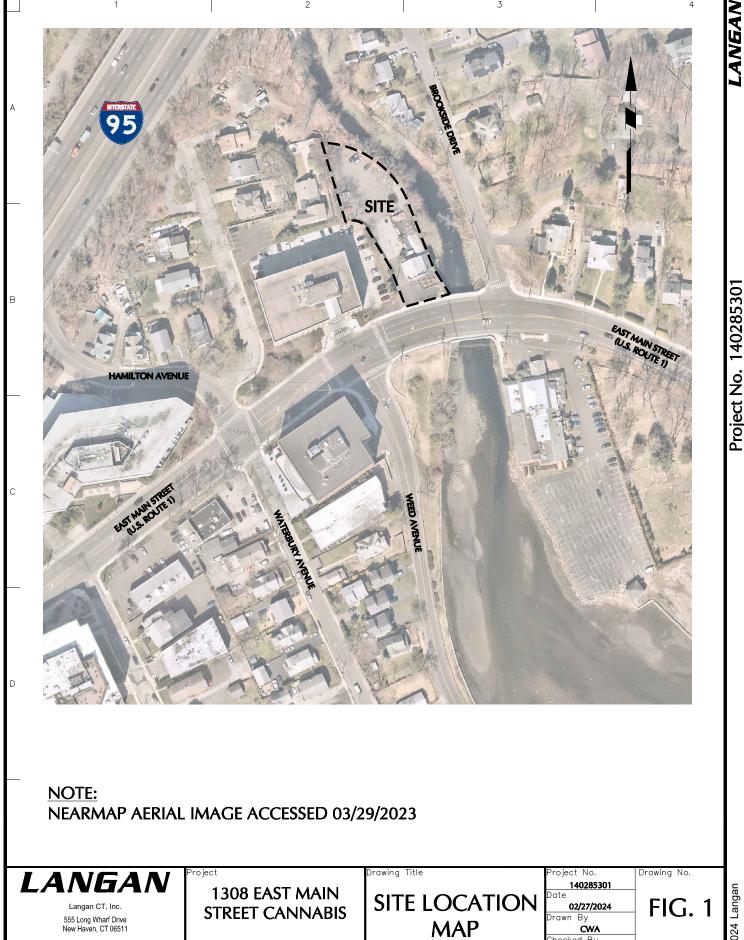
SUMMARY AND CONCLUSIONS

This assessment investigates the potential traffic impacts generated by the proposed conversion of an existing restaurant to a cannabis dispensary at 1308 East Main Street in Stamford, CT on the surrounding area roadway network. Langan performed a capacity analysis at two key study intersections and the site driveway for the 2024 Existing, 2025 No Build and Build scenarios. Our evaluation indicates that the existing roadway infrastructure within the project vicinity has the capacity to accommodate the nominal increase in traffic at the site resulting from the conversion. Traffic to and from the new facility will not have a measurable impact on traffic operations in the area according to the analysis herein.

\\langan.com\data\NHV\data3\140285301\Project Data_Discipline\Traffic\Reports\140285301 - East Main Street Cannabis - Stamford CT - Traffic Statement.docx



APPENDIX



2

Date: 2/28/2024 Time: 15:52 User: cadams Style Table: Langan.stb Layout: Layout1 Document Code: 140285301-0201-KT101-0106

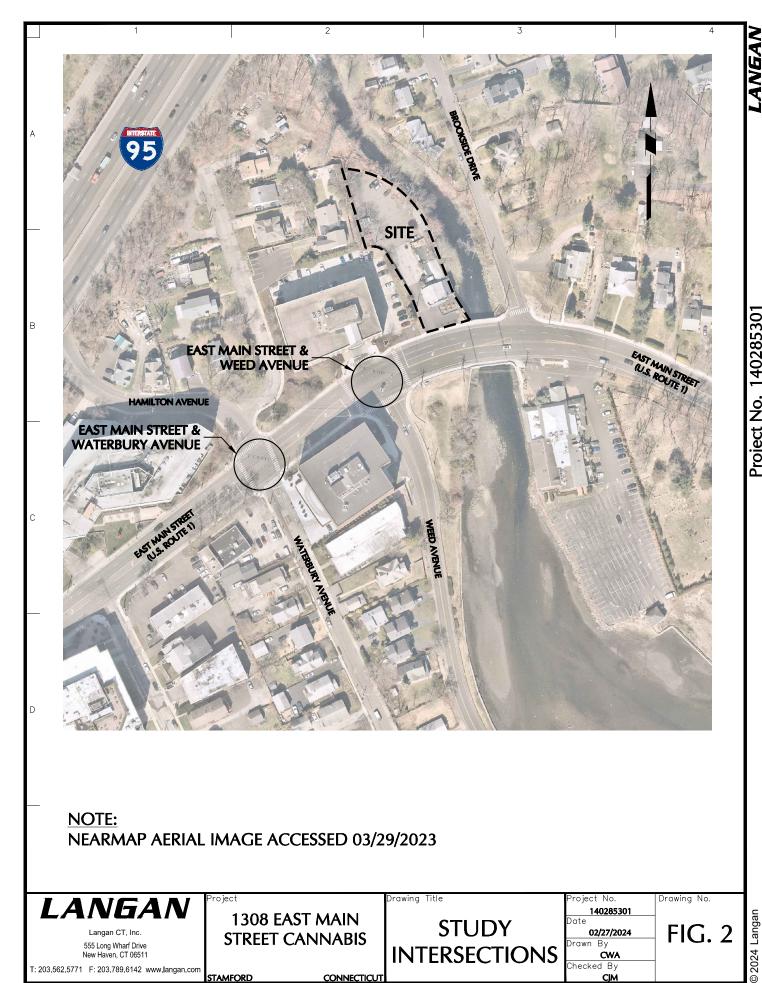
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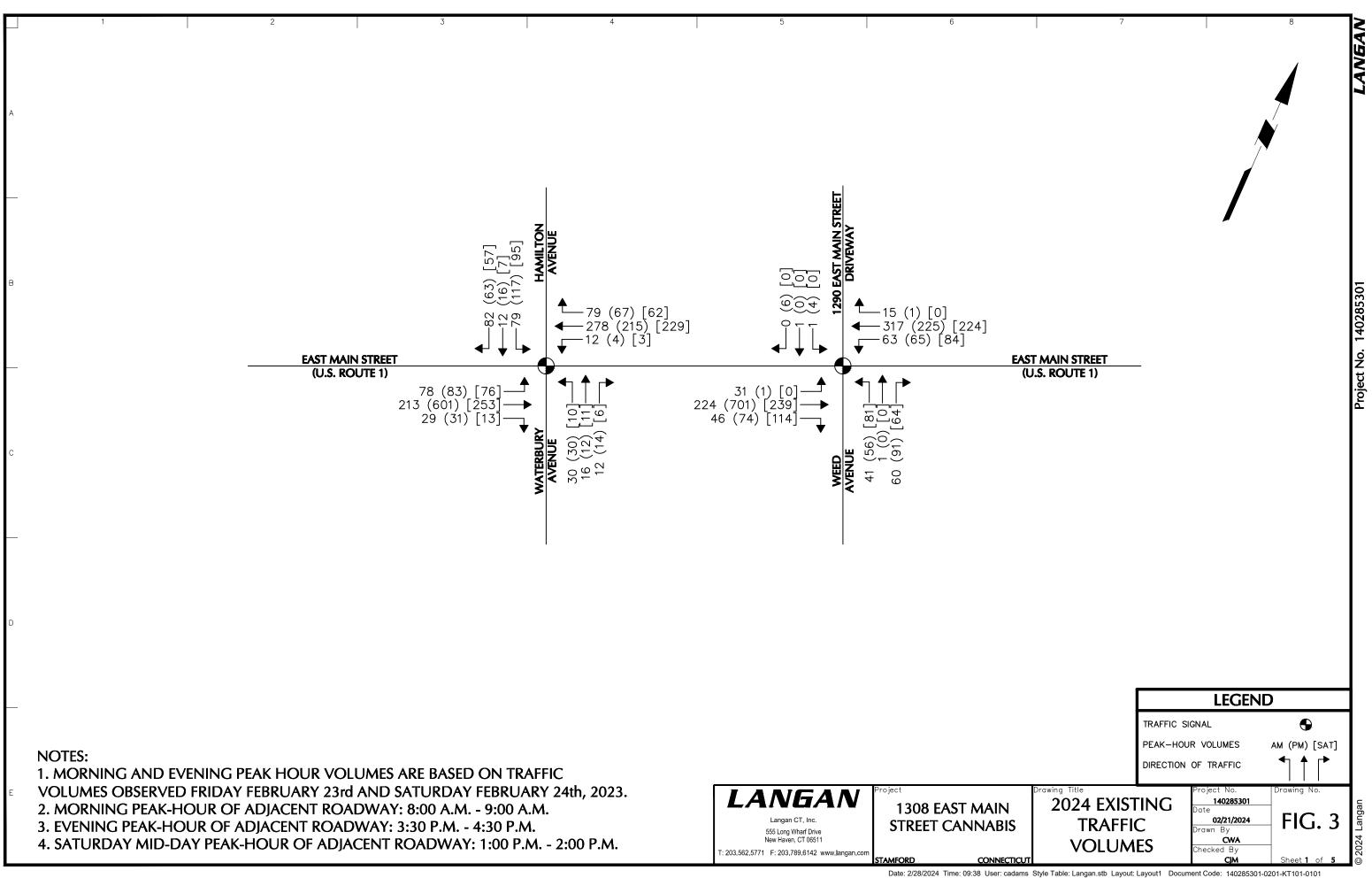
STAMFORD

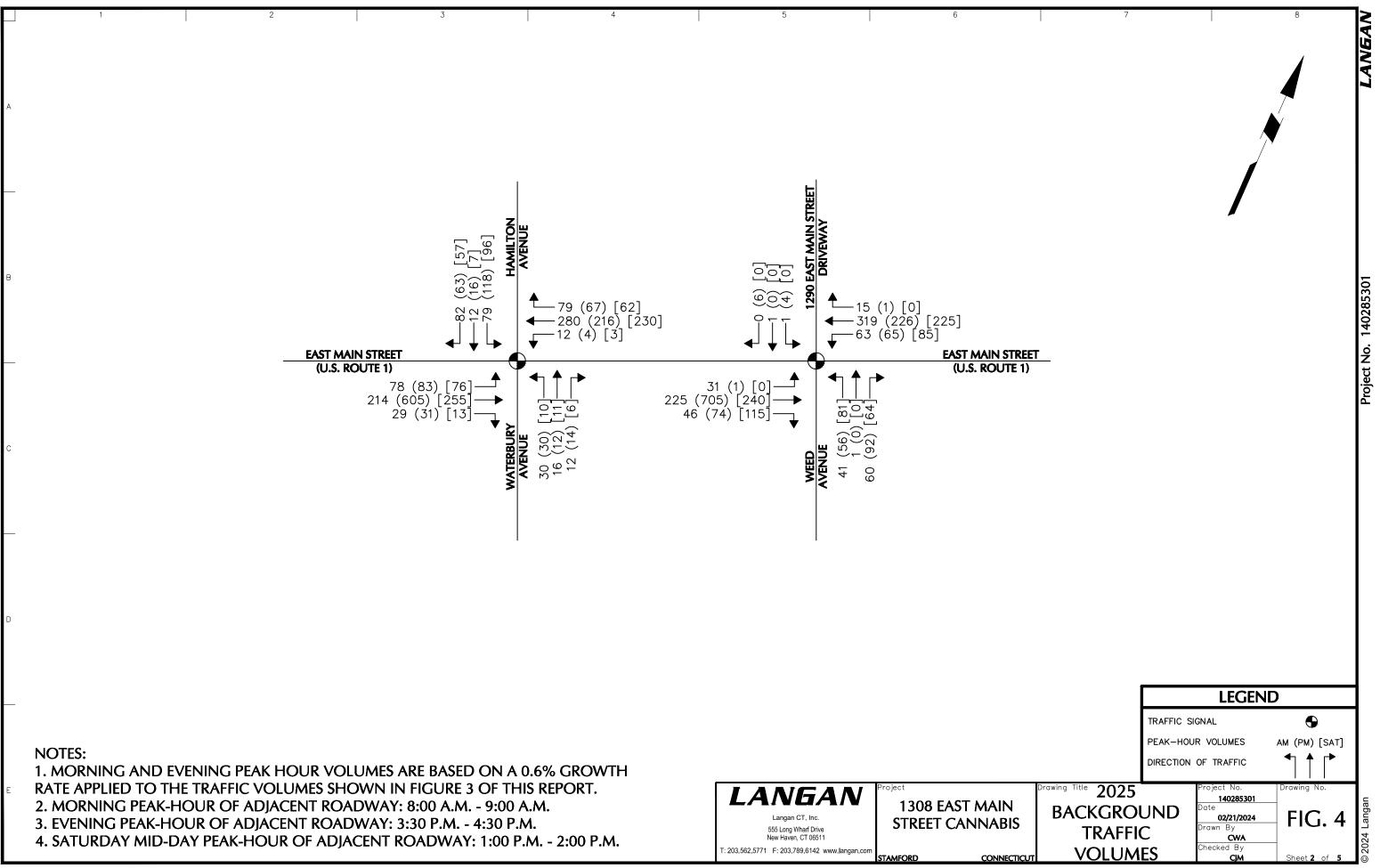
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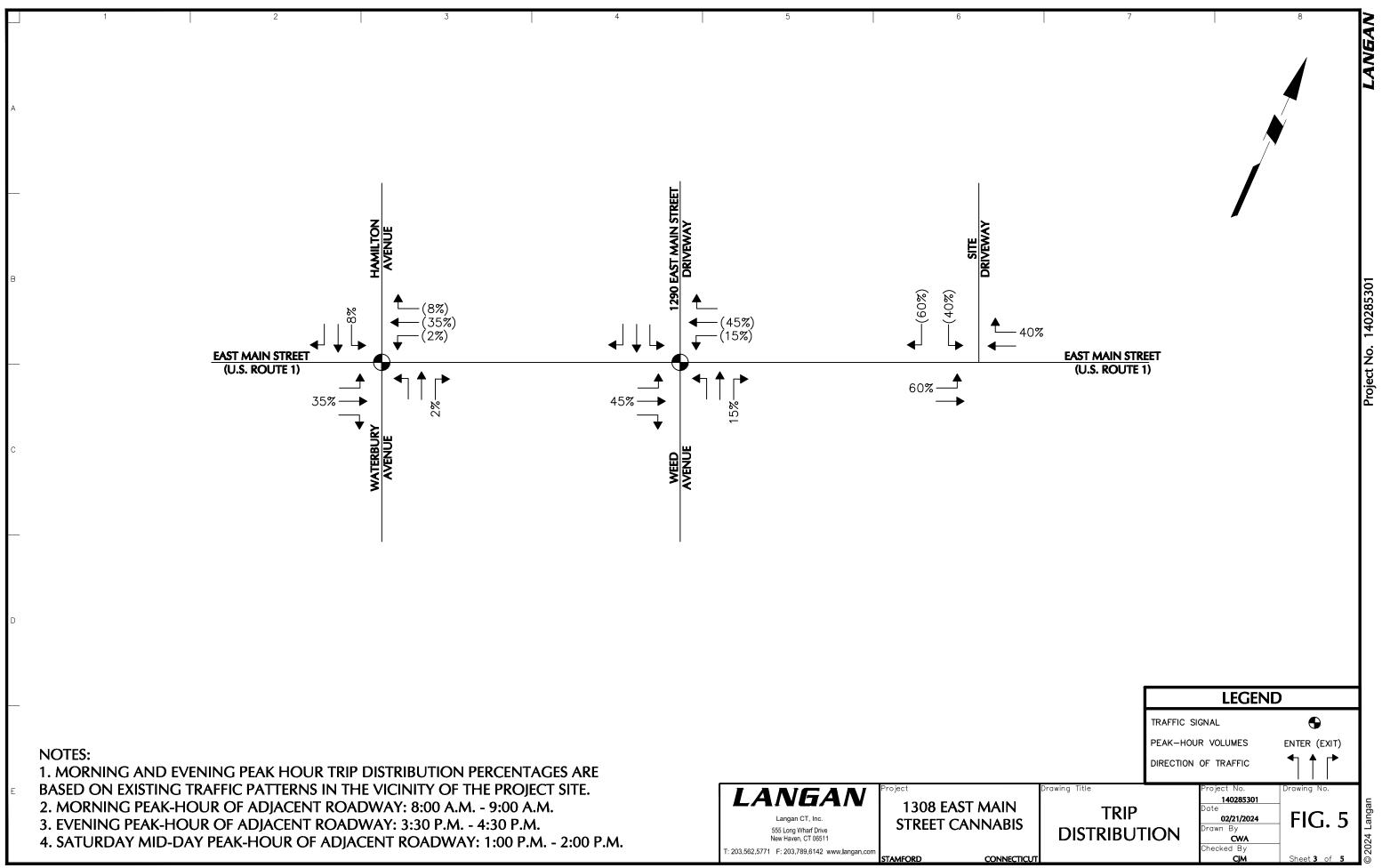


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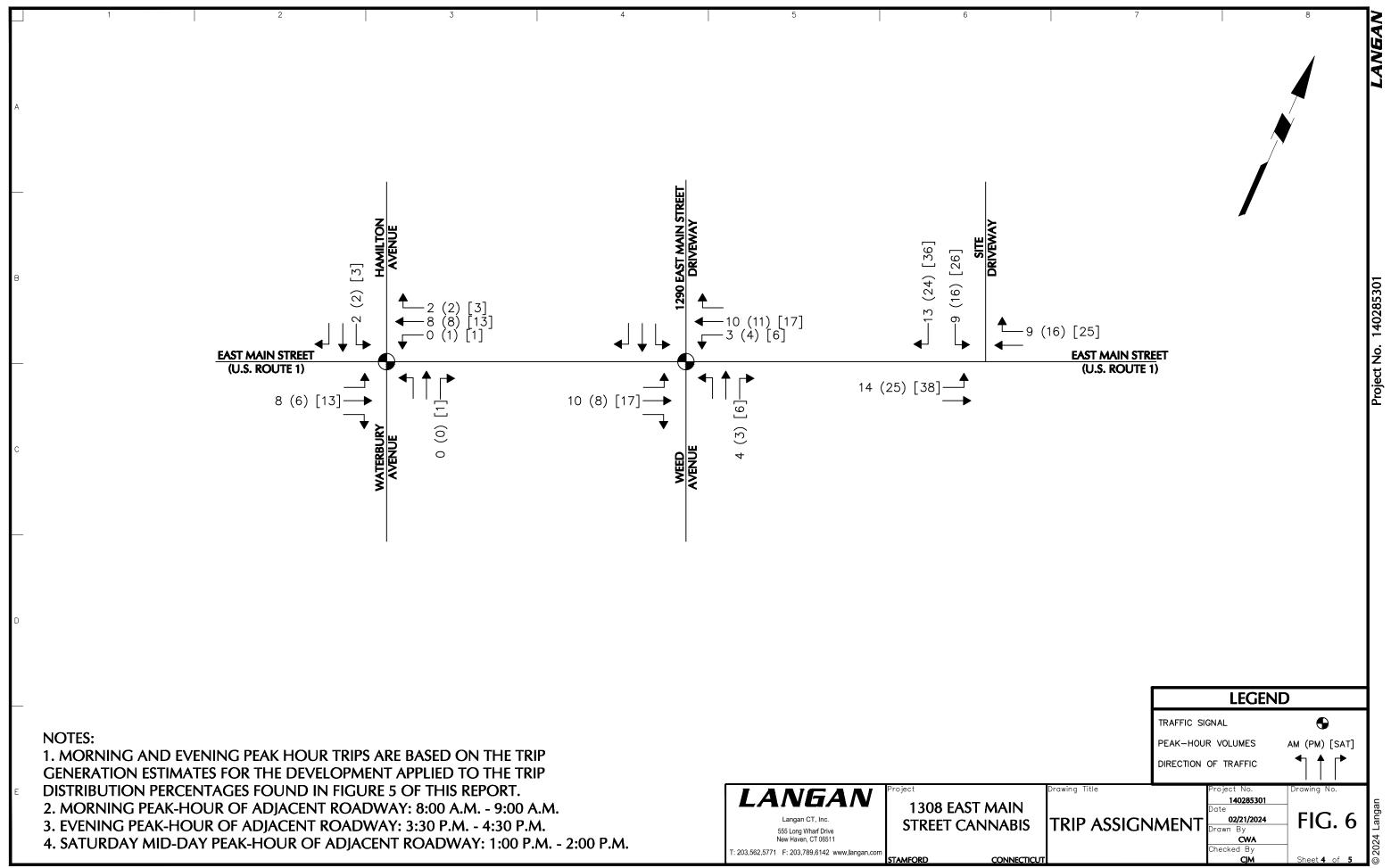




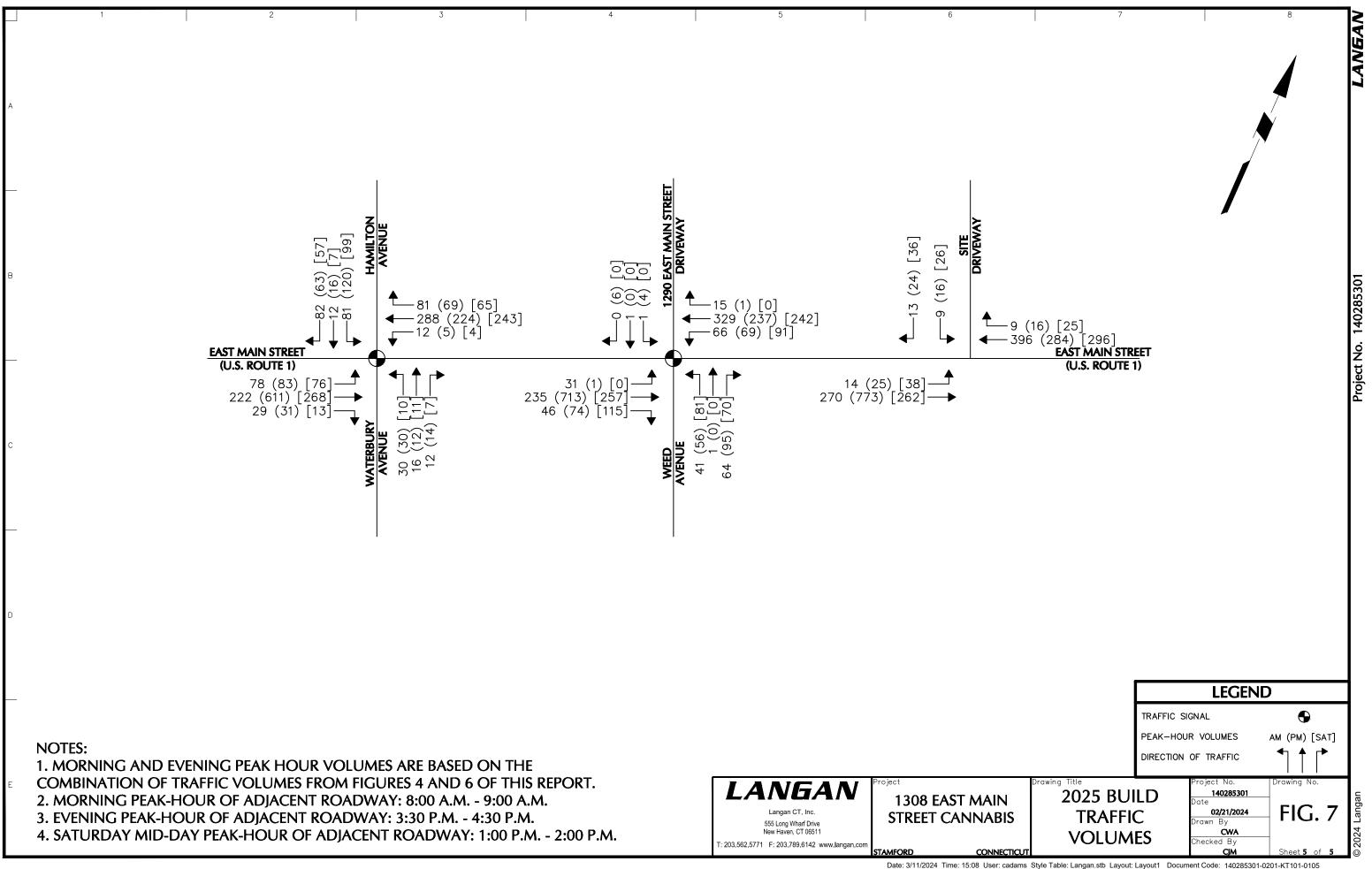
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Date: 3/11/2024 Time: 15:07 User: cadams Style Table: Langan.stb Layout: Layout: Document Code: 140285301-0201-KT101-0104



Land Use: 882 Marijuana Dispensary

Description

A marijuana dispensary is a stand-alone facility where cannabis is sold to patients or retail consumers in a legal manner. Marijuana cultivation and processing facility (Land Use 190) is a related land use.

Additional Data

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

The sites were surveyed in the 2010s in California, Colorado, Massachusetts, and Oregon.

Source Numbers

867, 893, 919, 1041, 1059



Marijuana Dispensary (882)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

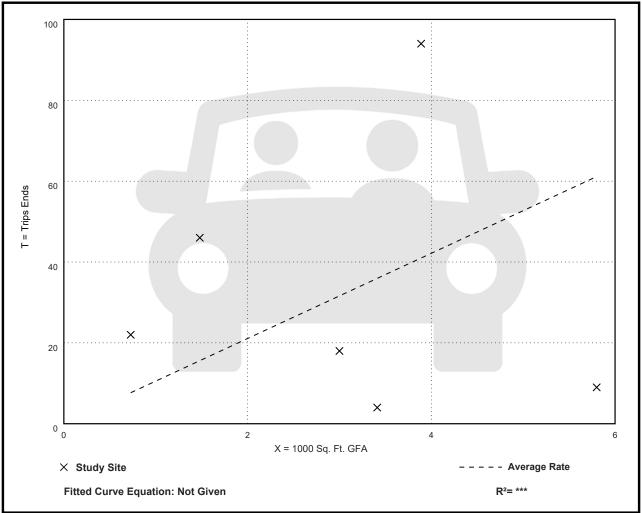
Number of Studies: 6

Avg. 1000 Sq. Ft. GFA: 3

Directional Distribution: 52% entering, 48% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
10.54	1.17 - 31.08	12.69



Marijuana Dispensary (882)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

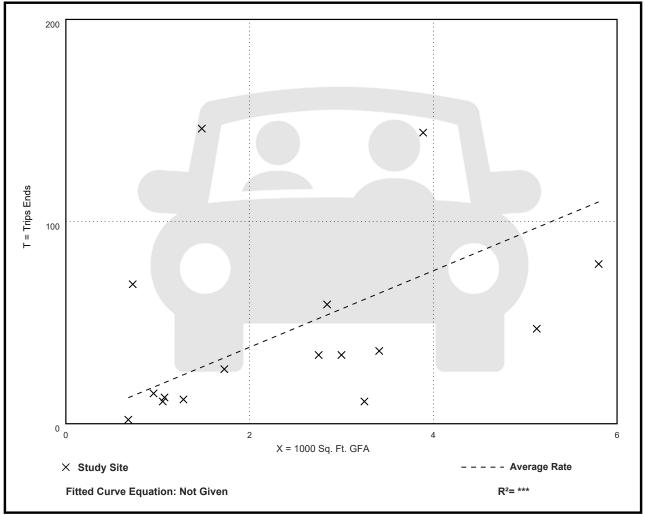
Number of Studies: 16

Avg. 1000 Sq. Ft. GFA: 2

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
18.92	2.94 - 98.65	21.73





Marijuana Dispensary (882)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Saturday, Peak Hour of Generator

Setting/Location: General Urban/Suburban

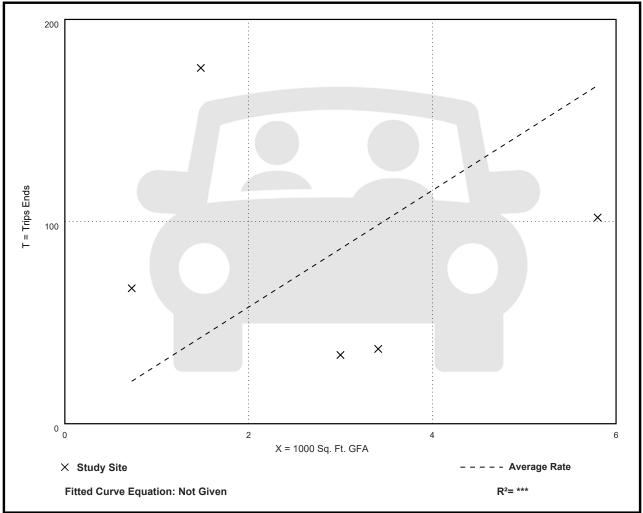
Number of Studies: 5

Avg. 1000 Sq. Ft. GFA: 3

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
28.85	10.85 - 118.92	39.14





Land Use: 932 High-Turnover (Sit-Down) Restaurant

Description

This land use consists of sit-down, full-service eating establishments with a typical duration of stay of 60 minutes or less. This type of restaurant is usually moderately priced, frequently belongs to a restaurant chain, and is commonly referred to as casual dining. Generally, these restaurants serve lunch and dinner; they may also be open for breakfast and are sometimes open 24 hours a day. These restaurants typically do not accept reservations. A patron commonly waits to be seated, is served by wait staff, orders from a menu, and pays after the meal.

Some facilities offer carry-out for a small proportion of its customers. Some facilities within this land use may also contain a bar area for serving food and alcoholic drinks.

Fast casual restaurant (Land Use 930), fine dining restaurant (Land Use 931), fast-food restaurant without drive-through window (Land Use 933), and fast-food restaurant with drive-through window (Land Use 934) are related uses.

Additional Data

Users should exercise caution when applying statistics during the AM peak periods, as the sites contained in the database for this land use may or may not be open for breakfast. In cases where it was confirmed that the sites were not open for breakfast, data for the AM peak hour of the adjacent street traffic were removed from the database.

If the restaurant has outdoor seating, its area is not included in the overall gross floor area. For a restaurant that has significant outdoor seating, the number of seats may be more reliable than GFA as an independent variable on which to establish a trip generation rate.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), California, Florida, Georgia, Indiana, Kentucky, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Texas, Vermont, and Wisconsin.

Source Numbers

126, 269, 275, 280, 300, 301, 305, 338, 340, 341, 358, 384, 424, 432, 437, 438, 444, 507, 555, 577, 589, 617, 618, 728, 868, 884, 885, 903, 927, 939, 944, 961, 962, 977, 1048



High-Turnover (Sit-Down) Restaurant (932)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

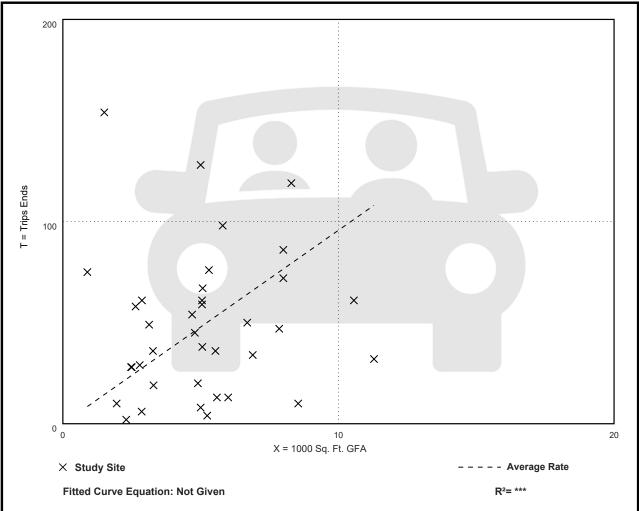
Number of Studies: 37

Avg. 1000 Sq. Ft. GFA: 5

Directional Distribution: 55% entering, 45% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.57	0.76 - 102.39	11.61





High-Turnover (Sit-Down) Restaurant (932)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

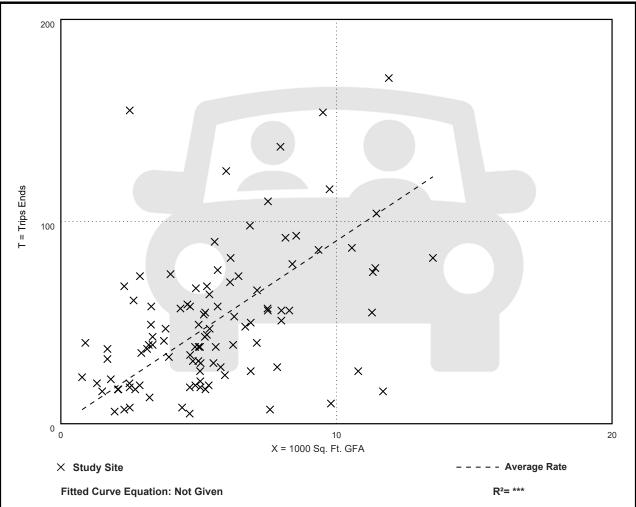
Number of Studies: 104

Avg. 1000 Sq. Ft. GFA: 6

Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.05	0.92 - 62.00	6.18



High-Turnover (Sit-Down) Restaurant (932)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

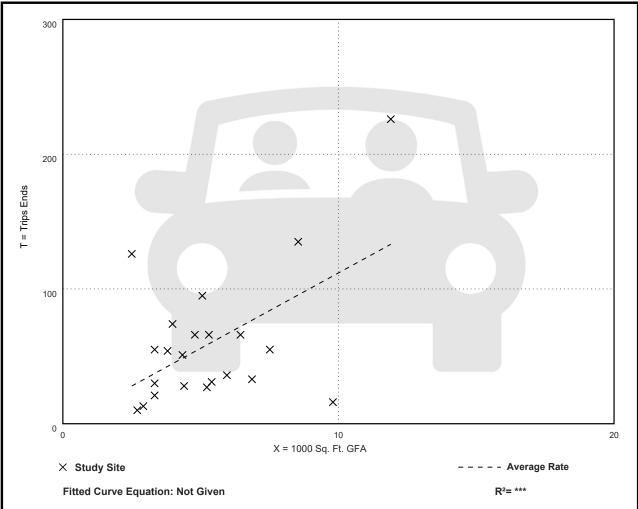
On a: Saturday, Peak Hour of Generator

Setting/Location: General Urban/Suburban

Number of Studies: 22 Avg. 1000 Sq. Ft. GFA: 5 Directional Distribution: 51% entering, 49% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
11.19	1.63 - 50.40	8.30





Lanes, Volumes, Timings

Existing AM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	∱ ⊅		ሻ	↑ ĵ≽		۲	eî 👘			र्स	1
Traffic Volume (vph)	78	213	29	12	278	79	30	16	12	79	12	82
Future Volume (vph)	78	213	29	12	278	79	30	16	12	79	12	82
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	125		0	50		0	0		0	0		75
Storage Lanes	1		0	1		0	1		0	0		1
Taper Length (ft)	75			50			25		-	25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.982			0.967			0.936				0.850
Flt Protected	0.950			0.950			0.950				0.959	
Satd. Flow (prot)	1736	3344	0	1805	3396	0	1752	1741	0	0	1806	1509
Flt Permitted	0.476	•••	•	0.572		•	0.619		Ţ		0.730	
Satd. Flow (perm)	870	3344	0	1087	3396	0	1142	1741	0	0	1375	1509
Right Turn on Red	010	0011	Yes	1001	0000	No			Yes	Ŭ	1010	Yes
Satd. Flow (RTOR)		19	100			110		15	100			100
Link Speed (mph)		30			30			30			30	100
Link Distance (ft)		404			244			271			300	
Travel Time (s)		9.2			5.5			6.2			6.8	
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Heavy Vehicles (%)	4%	6%	6%	0.02	3%	2%	3%	0.02	5%	1%	0.02	7%
Adj. Flow (vph)	4 <i>1</i> 8 95	260	35	15	339	276 96	37	20	15	96	15	100
Shared Lane Traffic (%)	90	200	- 55	15	339	90	57	20	15	90	15	100
Lane Group Flow (vph)	95	295	0	15	435	0	37	35	0	0	111	100
Enter Blocked Intersection	No	No	No	No	435 No	No	No	No	No	No	No	No
Lane Alignment	Left	Left		Left	Left		Left	Left		Left	Left	
Median Width(ft)	Leit	12	Right	Leit	12	Right	Leit	12	Right	Leit	12	Right
		0			0							
Link Offset(ft)		16			16			0 16			0 16	
Crosswalk Width(ft)		10			10			10			10	
Two way Left Turn Lane	1 00	1 00	1.00	1 00	1 00	1.00	1.00	1 00	1.00	1 00	1.00	1 00
Headway Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	1.00
Turning Speed (mph)	15	NIA	9	15	NIA	9	15	NLA	9	15	NIA	9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6		4	4		0	8	0
Permitted Phases	2	0		6	<u>^</u>		4	4		8	0	8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase	F 0	45.0		F 0	45.0		7.0	7.0		7.0	7.0	7.0
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	9.1	24.5		9.0	24.5		24.6	24.6		12.6	12.6	12.6
Total Split (s)	18.0	70.0		18.0	70.0		32.0	32.0		32.0	32.0	32.0
Total Split (%)	15.0%	58.3%		15.0%	58.3%		26.7%	26.7%		26.7%	26.7%	26.7%
Maximum Green (s)	13.9	63.5		14.0	63.5		26.4	26.4		26.4	26.4	26.4
Yellow Time (s)	3.1	4.1		3.0	4.1		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	1.0	2.4		1.0	2.4		2.3	2.3		2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	4.1	6.5		4.0	6.5		5.6	5.6			5.6	5.6
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min		None	None		None	None	None

AM Peak Hour - Langan 140285301 - Stamford Cannabis - Existing.syn Langan Page 1

Lanes, Volumes, Timings

Existing AM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0				
Flash Dont Walk (s)		11.0			11.0		12.0	12.0				
Pedestrian Calls (#/hr)		2			1		2	2				
Act Effct Green (s)	95.4	90.2		91.2	83.7		14.1	14.1			14.1	14.1
Actuated g/C Ratio	0.80	0.75		0.76	0.70		0.12	0.12			0.12	0.12
v/c Ratio	0.12	0.11		0.01	0.18		0.27	0.16			0.68	0.37
Control Delay (s/veh)	3.4	4.9		2.5	5.5		51.4	31.3			71.4	12.7
Queue Delay	0.0	0.0		0.0	0.3		0.0	0.0			0.0	0.0
Total Delay (s/veh)	3.4	4.9		2.5	5.8		51.4	31.3			71.4	12.7
LOS	А	А		А	А		D	С			Е	В
Approach Delay (s/veh)		4.6			5.8			41.7			43.6	
Approach LOS		А			А			D			D	
Queue Length 50th (ft)	12	22		2	38		27	14			84	0
Queue Length 95th (ft)	28	51		5	40		52	38			125	38
Internal Link Dist (ft)		324			164			191			220	
Turn Bay Length (ft)	125			50								75
Base Capacity (vph)	797	2517		956	2368		251	394			302	409
Starvation Cap Reductn	0	0		0	1337		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.12	0.12		0.02	0.42		0.15	0.09			0.37	0.24
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 12	20											
Offset: 19 (16%) Referenced to phase 2'EBTL and 6'WBTL. Start of Vellow												

Offset: 19 (16%), Referenced to phase 2:EBTL and 6:WBTL, Start of Yellow

Natural Cycle: 60 Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.69

Intersection Signal Delay (s/veh): 14.8 Intersection Capacity Utilization 42.0%

Analysis Period (min) 15

Intersection LOS: B ICU Level of Service A

Splits and Phases: 1: Waterbury Avenue/Hamilton Avenue & East Main Street

¢ ø1	Ø2 (R)	♦ Ø4
18 s	70 s	32 s
€ _{∅5}	₩ Ø6 (R)	↓ Ø8
18 s	70 s	32 s

Existing AM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	∱1 ≱		۲	A			4	1		4	
Traffic Volume (vph)	31	224	46	63	317	15	41	1	60	1	1	0
Future Volume (vph)	31	224	46	63	317	15	41	1	60	1	1	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50		0	100		0	0		75	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	50			75			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.975			0.993				0.850			
Flt Protected	0.950			0.950				0.953			0.976	
Satd. Flow (prot)	1805	3363	0	1787	3485	0	0	1776	1599	0	1854	0
Flt Permitted	0.495			0.534				0.729			0.854	
Satd. Flow (perm)	940	3363	0	1005	3485	0	0	1358	1599	0	1623	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		30			6				80			
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		244			147			233			145	
Travel Time (s)		5.5			3.3			5.3			3.3	
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles (%)	0%	5%	3%	1%	3%	0%	2%	0%	1%	0%	0%	0%
Adj. Flow (vph)	41	299	61	84	423	20	55	1	80	1	1	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	41	360	0	84	443	0	0	56	80	0	2	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases	2			6			4		4	4		
Detector Phase	5	2		1	6		4	4	4	4	4	
Switch Phase												
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	9.0	34.6		9.0	34.6		25.7	25.7	25.7	25.7	25.7	
Total Split (s)	17.0	70.0		17.0	70.0		33.0	33.0	33.0	33.0	33.0	
Total Split (%)	14.2%	58.3%		14.2%	58.3%		27.5%	27.5%	27.5%	27.5%	27.5%	
Maximum Green (s)	13.0	63.4		13.0	63.4		27.3	27.3	27.3	27.3	27.3	
Yellow Time (s)	3.0	4.0		3.0	4.0		3.7	3.7	3.7	3.7	3.7	
All-Red Time (s)	1.0	2.6		1.0	2.6		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	4.0	6.6		4.0	6.6			5.7	5.7		5.7	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
		C-Min						None			None	

AM Peak Hour - Langan 140285301 - Stamford Cannabis - Existing.syn

Existing AM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)		21.0			21.0		13.0	13.0	13.0	13.0	13.0	
Pedestrian Calls (#/hr)		0			0		0	0	0	0	0	
Act Effct Green (s)	99.6	94.1		100.4	94.5			9.7	9.7		9.7	
Actuated g/C Ratio	0.83	0.78		0.84	0.79			0.08	0.08		0.08	
v/c Ratio	0.05	0.13		0.09	0.16			0.51	0.39		0.01	
Control Delay (s/veh)	3.3	6.1		2.1	4.4			68.4	16.7		48.5	
Queue Delay	0.0	0.3		0.0	0.0			0.0	0.0		0.0	
Total Delay (s/veh)	3.3	6.4		2.1	4.4			68.4	16.7		48.5	
LOS	А	А		А	А			Е	В		D	
Approach Delay (s/veh)		6.1			4.1			38.0			48.5	
Approach LOS		А			А			D			D	
Queue Length 50th (ft)	9	67		8	44			43	0		1	
Queue Length 95th (ft)	14	51		16	58			69	29		8	
Internal Link Dist (ft)		164			67			153			65	
Turn Bay Length (ft)	50			100					75			
Base Capacity (vph)	901	2644		948	2746			308	425		369	
Starvation Cap Reductn	0	1677		0	0			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.05	0.37		0.09	0.16			0.18	0.19		0.01	
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 12	0											
Offset: 25 (21%), Reference	ced to phase	2:EBTL a	and 6:WB	TL, Start	of Yellow							
Natural Cycle: 70												
Control Type: Actuated-Co	Control Type: Actuated-Coordinated											
Maximum v/c Ratio: 0.51												
Intersection Signal Delay (s/veh): 9.3			In	tersectior	LOS: A						
Intersection Capacity Utiliz	ation 39.2%			IC	U Level o	of Service	А					
Analysis Period (min) 15												

Splits and Phases: 2: Weed Avenue/1290 E Main St Driveway & East Main Street

ſ	Ø1		● ↓ Ø4
17 s		70 s	33 s
5	Ø5	Ø6 (R)	
17 s		70 s	

Lanes, Volumes, Timings

Existing PM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<u>ار ا</u>	∱1 ≽		ኘ	∱ ₽		<u>م</u>	el el			र्स	1
Traffic Volume (vph)	83	601	31	4	215	67	30	12	14	117	16	63
Future Volume (vph)	83	601	31	4	215	67	30	12	14	117	16	63
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	125		0	50		0	0		0	0		75
Storage Lanes	1		0	1		0	1		0	0		1
Taper Length (ft)	75			50			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.993			0.965			0.917				0.850
Flt Protected	0.950			0.950			0.950				0.958	
Satd. Flow (prot)	1787	3518	0	1805	3431	0	1805	1727	0	0	1816	1583
Flt Permitted	0.534			0.385			0.526				0.731	
Satd. Flow (perm)	1005	3518	0	732	3431	0	999	1727	0	0	1386	1583
Right Turn on Red			Yes			No			Yes			Yes
Satd. Flow (RTOR)		5						16				70
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		404			244			271			300	
Travel Time (s)		9.2			5.5			6.2			6.8	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	1%	2%	0%	0%	2%	0%	0%	2%	0%	0%	2%	2%
Adj. Flow (vph)	92	668	34	4	239	74	33	13	16	130	18	70
Shared Lane Traffic (%)												
Lane Group Flow (vph)	92	702	0	4	313	0	33	29	0	0	148	70
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	Ŭ		12	Ŭ		12	Ŭ		12	Ŭ
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6			4			8	-
Permitted Phases	2			6			4			8		8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase												
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	9.1	24.5		9.0	24.5		24.6	24.6		12.6	12.6	12.6
Total Split (s)	19.0	56.0		19.0	56.0		45.0	45.0		45.0	45.0	45.0
Total Split (%)	15.8%	46.7%		15.8%	46.7%		37.5%	37.5%		37.5%	37.5%	37.5%
Maximum Green (s)	14.9	49.5		15.0	49.5		39.4	39.4		39.4	39.4	39.4
Yellow Time (s)	3.1	4.1		3.0	4.1		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	1.0	2.4		1.0	2.4		2.3	2.3		2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		2.0	0.0	0.0
Total Lost Time (s)	4.1	6.5		4.0	6.5		5.6	5.6			5.6	5.6
Lead/Lag	Lead	Lag		Lead	Lag		0.0	0.0			0.0	0.0
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min		None	None		None	None	None
	NOTE			NOUG			NOULG	NOTE		NULLE	NOTE	NONE

PM Peak Hour - Langan 140285301 - Stamford Cannabis - Existing.syn Langan Page 1

Lanes, Volumes, Timings

Existing PM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0				
Flash Dont Walk (s)		11.0			11.0		12.0	12.0				
Pedestrian Calls (#/hr)		2			1		2	2				
Act Effct Green (s)	92.7	88.7		87.8	80.3		17.4	17.4			17.4	17.4
Actuated g/C Ratio	0.77	0.74		0.73	0.67		0.15	0.15			0.15	0.15
v/c Ratio	0.11	0.26		0.00	0.13		0.22	0.10			0.74	0.24
Control Delay (s/veh)	4.3	6.3		6.0	11.6		46.6	25.0			69.5	11.4
Queue Delay	0.0	0.0		0.0	0.4		0.0	0.0			0.0	0.0
Total Delay (s/veh)	4.3	6.3		6.0	12.0		46.6	25.0			69.5	11.4
LOS	А	А		А	В		D	С			Е	В
Approach Delay (s/veh)		6.1			12.0			36.5			50.9	
Approach LOS		А			В			D			D	
Queue Length 50th (ft)	14	74		1	62		23	9			111	0
Queue Length 95th (ft)	35	162		3	101		52	34			173	39
Internal Link Dist (ft)		324			164			191			220	
Turn Bay Length (ft)	125			50								75
Base Capacity (vph)	875	2601		701	2295		328	577			455	566
Starvation Cap Reductn	0	0		0	1517		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.11	0.27		0.01	0.40		0.10	0.05			0.33	0.12
Intersection Summary												
71	Other											
Cycle Length: 120												
Actuated Cycle Length: 120												
Offset: 38 (32%), Reference	ed to phase	2:EBTL a	ind 6:WB	TL, Start	of Yellow							
Natural Cycle: 60												
Control Type: Actuated-Coo	ordinated											
Maximum v/c Ratio: 0.74												
Intersection Signal Delay (s/	/veh): 15.8			In	tersectior	LOS: B						

Intersection Signal Delay (s/veh): 15.8 Intersection Capacity Utilization 49.2% Intersection LOS: B ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 1: Waterbury Avenue/Hamilton Avenue & East Main Street



Existing PM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	₫₽		ľ	↑î≽			र्च	1		\$	
Traffic Volume (vph)	1	701	74	65	225	1	56	0	91	4	0	6
Future Volume (vph)	1	701	74	65	225	1	56	0	91	4	0	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50		0	100		0	0		75	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	50			75			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.986			0.999				0.850		0.921	
Flt Protected	0.950			0.950				0.950			0.980	
Satd. Flow (prot)	1805	3528	0	1805	3536	0	0	1805	1599	0	1715	0
Flt Permitted	0.591			0.292				0.750			0.868	
Satd. Flow (perm)	1123	3528	0	555	3536	0	0	1425	1599	0	1519	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		14							105		69	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		244			147			233			145	
Travel Time (s)		5.5			3.3			5.3			3.3	
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles (%)	0%	1%	0%	0%	2%	0%	0%	0%	1%	0%	0%	0%
Adj. Flow (vph)	1	806	85	75	259	1	64	0	105	5	0	7
Shared Lane Traffic (%)		000	00	10	200		04	0	100	U	U	,
Lane Group Flow (vph)	1	891	0	75	260	0	0	64	105	0	12	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Lon	12	rugitt	Lon	12	rugitt	Lon	0	rugitt	Lon	0	ragin
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10						10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA	Ţ	pm+pt	NA	Ţ	Perm	NA	Perm	Perm	NA	, in the second s
Protected Phases	5	2		1	6			4			4	
Permitted Phases	2	_		6	Ţ		4		4	4		
Detector Phase	5	2		1	6		4	4	4	4	4	
Switch Phase		_			Ţ					·		
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	9.0	34.6		9.0	34.6		25.7	25.7	25.7	25.7	25.7	
Total Split (s)	16.0	71.0		16.0	71.0		33.0	33.0	33.0	33.0	33.0	
Total Split (%)	13.3%	59.2%		13.3%	59.2%		27.5%	27.5%	27.5%	27.5%	27.5%	
Maximum Green (s)	12.0	64.4		12.0	64.4		27.3	27.3	27.3	27.3	27.3	
Yellow Time (s)	3.0	4.0		3.0	4.0		3.7	3.7	3.7	3.7	3.7	
All-Red Time (s)	1.0	2.6		1.0	2.6		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		2.0	0.0	0.0	2.0	0.0	
Total Lost Time (s)	4.0	6.6		4.0	6.6			5.7	5.7		5.7	
Lead/Lag	Lead	Lag		Lead	Lag			0.1	0.1		0.1	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	
	NULLE			NONE			NONE	NONE	NONE		NONE	

PM Peak Hour - Langan 140285301 - Stamford Cannabis - Existing.syn

Existing PM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Walk Time (s)		7.0			7.0		7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)		21.0			21.0		13.0	13.0	13.0	13.0	13.0	
Pedestrian Calls (#/hr)		0			0		0	0	0	0	0	
Act Effct Green (s)	96.4	89.8		99.6	95.7			10.2	10.2		10.2	
Actuated g/C Ratio	0.80	0.75		0.83	0.80			0.09	0.09		0.09	
v/c Ratio	0.00	0.33		0.14	0.09			0.53	0.45		0.06	
Control Delay (s/veh)	2.0	4.4		2.6	3.3			67.7	15.7		0.6	
Queue Delay	0.0	0.3		0.0	0.0			0.0	0.0		0.0	
Total Delay (s/veh)	2.0	4.7		2.6	3.3			67.7	15.7		0.6	
LOS	А	Α		Α	Α			E	В		Α	
Approach Delay (s/veh)		4.8			3.2			35.4			0.6	
Approach LOS		Α			Α			D			Α	
Queue Length 50th (ft)	0	97		7	16			49	0		0	
Queue Length 95th (ft)	m0	113		18	42			89	48		0	
Internal Link Dist (ft)		164			67			153			65	
Turn Bay Length (ft)	50			100					75			
Base Capacity (vph)	1004	2644		588	2820			324	444		398	
Starvation Cap Reductn	0	1021		0	0			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.00	0.55		0.13	0.09			0.20	0.24		0.03	
Intersection Summary												
	Other											
Cycle Length: 120												
Actuated Cycle Length: 120												
Offset: 44 (37%), Reference	d to phase	2:EBTL a	and 6:WB	TL, Start	of Yellow							
Natural Cycle: 70												
Control Type: Actuated-Coo	rdinated											
Maximum v/c Ratio: 0.53												
Intersection Signal Delay (s/					tersectior							
Intersection Capacity Utiliza	tion 48.4%			IC	U Level o	of Service	A					
Analysis Period (min) 15												
m Volume for 95th percen	tile queue i	s metered	l by upstr	eam sign	al.							
Splits and Phases: 2: We	ed Avenue/	1290 F M	lain St Dr	ivewav &	Fast Mai	n Street						
				weway a								



Lanes, Volumes, Timings

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	∱ ⊅		ኘ	↑î≽		7	el el			र्भ	1
Traffic Volume (vph)	76	253	13	3	229	62	10	11	6	95	7	57
Future Volume (vph)	76	253	13	3	229	62	10	11	6	95	7	57
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	125		0	50		0	0		0	0		75
Storage Lanes	1		0	1		0	1		0	0		1
Taper Length (ft)	75			50			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.992			0.968			0.945				0.850
Flt Protected	0.950			0.950			0.950				0.956	
Satd. Flow (prot)	1805	3542	0	1805	3460	0	1805	1751	0	0	1800	1615
Flt Permitted	0.527			0.569			0.634				0.727	
Satd. Flow (perm)	1001	3542	0	1081	3460	0	1205	1751	0	0	1369	1615
Right Turn on Red			Yes			No			Yes			Yes
Satd. Flow (RTOR)		7						7				75
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		404			244			271			300	
Travel Time (s)		9.2			5.5			6.2			6.8	
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	0%	1%	3%	0%	1%	1%	0%	4%	0%	1%	0%	0%
Adj. Flow (vph)	85	284	15	3	257	70	11	12	7	107	8	64
Shared Lane Traffic (%)												
Lane Group Flow (vph)	85	299	0	3	327	0	11	19	0	0	115	64
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	Ŭ		12	Ŭ		12	Ŭ		12	Ŭ
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA		Perm	NA	Perm
Protected Phases	5	2			6			4			8	
Permitted Phases	2			6			4			8		8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase												
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	9.1	24.5		9.0	24.5		24.6	24.6		12.6	12.6	12.6
Total Split (s)	19.0	59.0		19.0	59.0		32.0	32.0		32.0	32.0	32.0
Total Split (%)	17.3%	53.6%		17.3%	53.6%		29.1%	29.1%		29.1%	29.1%	29.1%
Maximum Green (s)	14.9	52.5		15.0	52.5		26.4	26.4		26.4	26.4	26.4
Yellow Time (s)	3.1	4.1		3.0	4.1		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	1.0	2.4		1.0	2.4		2.3	2.3		2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	4.1	6.5		4.0	6.5		5.6	5.6			5.6	5.6
Lead/Lag	Lead	Lag		Lead	Lag		2.0				5.0	5.0
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min		None	None		None	None	None
	110110			110110			110110	110110		110110	110110	110110

SAT Peak Hour - Langan 140285301 - Stamford Cannabis - Existing.syn Langan Page 1

Lanes, Volumes, Timings

Existing SAT

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0				
Flash Dont Walk (s)		11.0			11.0		12.0	12.0				
Pedestrian Calls (#/hr)		2			1		2	2				
Act Effct Green (s)	86.3	82.5		82.7	76.2		13.6	13.6			13.6	13.6
Actuated g/C Ratio	0.78	0.75		0.75	0.69		0.12	0.12			0.12	0.12
v/c Ratio	0.10	0.11		0.00	0.13		0.07	0.08			0.68	0.24
Control Delay (s/veh)	3.5	4.6		3.6	7.6		40.6	30.2			64.9	9.4
Queue Delay	0.0	0.0		0.0	0.3		0.0	0.0			0.0	0.0
Total Delay (s/veh)	3.5	4.6		3.6	7.9		40.6	30.2			64.9	9.4
LOS	Α	Α		А	Α		D	С			E	Α
Approach Delay (s/veh)		4.4			8.0			34.1			45.1	
Approach LOS		Α			Α			С			D	
Queue Length 50th (ft)	11	23		1	46		7	8			79	0
Queue Length 95th (ft)	28	58		m3	101		22	28			130	30
Internal Link Dist (ft)		324			164			191			220	
Turn Bay Length (ft)	125			50								75
Base Capacity (vph)	897	2657		951	2396		289	425			328	444
Starvation Cap Reductn	0	0		0	1536		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.09	0.11		0.00	0.38		0.04	0.04			0.35	0.14
Intersection Summary												
51	Other											
Cycle Length: 110												
Actuated Cycle Length: 110												
Offset: 31 (28%), Reference	ed to phase	2:EBTL a	and 6:WB	TL, Start	of Yellow							
Natural Cycle: 60												
Control Type: Actuated-Coo	ordinated											
Maximum v/c Ratio: 0.68												
Intersection Signal Delay (s/					tersectior							
Intersection Capacity Utiliza	tion 42.5%			IC	U Level o	of Service	А					
Analysis Period (min) 15												
m Volume for 95th percen	itile queue i	s metered	d by upstr	eam sign	al.							
Splits and Phases: 1: Wa	Splits and Phases: 1: Waterbury Avenue/Hamilton Avenue & East Main Street											

Splits and Phases: vvaterbury Avenue/Hamilton Avenue &



Existing SAT

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ኘ	A		۲	A			र्भ	1		\$	
Traffic Volume (vph)	0	239	114	84	224	0	81	Ō	64	0	0	0
Future Volume (vph)	0	239	114	84	224	0	81	0	64	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50		0	100		0	0		75	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	50			75			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.951							0.850			
Flt Protected				0.950				0.950				
Satd. Flow (prot)	1900	3410	0	1787	3539	0	0	1787	1599	0	1900	0
Flt Permitted				0.490				0.757				
Satd. Flow (perm)	1900	3410	0	922	3539	0	0	1424	1599	0	1900	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		97							75			
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		244			147			233			145	
Travel Time (s)		5.5			3.3			5.3			3.3	
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles (%)	0%	1%	0%	1%	2%	0%	1%	0%	1%	0%	0%	0%
Adj. Flow (vph)	0	272	130	95	255	0	92	0	73	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	402	0	95	255	0	0	92	73	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA	Perm			
Protected Phases	5	2		1	6			4			4	
Permitted Phases	2	_		6	<u>,</u>		4		4	4		
Detector Phase	5	2		1	6		4	4	4	4	4	
Switch Phase	F 0	45.0		5.0	45.0		7.0	7.0	7.0	7.0	7.0	
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0	7.0	7.0	7.0	_
Minimum Split (s)	9.0	34.6		9.0	34.6		25.7	25.7	25.7	25.7	25.7	
Total Split (s)	19.0	58.0		19.0	58.0		33.0	33.0	33.0	33.0	33.0	
Total Split (%)	17.3%	52.7%		17.3%	52.7%		30.0%	30.0%	30.0%	30.0%	30.0%	
Maximum Green (s)	15.0	51.4		15.0	51.4		27.3	27.3	27.3	27.3	27.3	
Yellow Time (s)	3.0	4.0		3.0	4.0		3.7	3.7	3.7	3.7	3.7	
All-Red Time (s)	1.0	2.6		1.0	2.6		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	4.0	6.6		4.0	6.6			5.7	5.7		5.7	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		0.0	0.0	0.0	0.0	0.0	
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	

SAT Peak Hour - Langan 140285301 - Stamford Cannabis - Existing.syn

Existing SAT

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)		21.0			21.0		13.0	13.0	13.0	13.0	13.0	
Pedestrian Calls (#/hr)		0			0		0	0	0	0	0	
Act Effct Green (s)		76.2		88.6	86.0			11.7	11.7			
Actuated g/C Ratio		0.69		0.81	0.78			0.11	0.11			
v/c Ratio		0.16		0.12	0.09			0.60	0.30			
Control Delay (s/veh)		8.4		2.9	3.2			63.2	13.0			
Queue Delay		0.4		0.0	0.0			0.0	0.0			
Total Delay (s/veh)		8.8		2.9	3.2			63.2	13.0			
LOS		А		А	А			Е	В			
Approach Delay (s/veh)		8.8			3.2			41.0				
Approach LOS		А			Α			D				
Queue Length 50th (ft)		71		11	17			63	0			
Queue Length 95th (ft)		52		26	33			109	38			
Internal Link Dist (ft)		164			67			153			65	
Turn Bay Length (ft)				100					75			
Base Capacity (vph)		2391		860	2767			353	453			
Starvation Cap Reductn		1488		0	0			0	0			
Spillback Cap Reductn		0		0	0			0	0			
Storage Cap Reductn		0		0	0			0	0			
Reduced v/c Ratio		0.45		0.11	0.09			0.26	0.16			
Intersection Summary												
	Other											
Cycle Length: 110												
Actuated Cycle Length: 110												
Offset: 37 (34%), Referenced	d to phase 2:	EBTL a	nd 6:WB	TL, Start	of Yellow							
Natural Cycle: 70												
Control Type: Actuated-Coor	rdinated											
Maximum v/c Ratio: 0.61												
Intersection Signal Delay (s/	,				tersectior							
Intersection Capacity Utilizat	tion 36.6%			IC	CU Level o	of Service	A					
Analysis Period (min) 15												

Splits and Phases: 2: Weed Avenue/1290 E Main St Driveway & East Main Street

f Ø1	→ Ø2 (R)	₩ Ø4
19 s	58 s	33 s
J _{ø5}	✓ Ø6 (R)	
19 s	58 s	

Lanes, Volumes, Timings

Background AM

Lane Group EBL EBR WBL WBT WBR NBT NBT NBT SBL SBT SBR Lane Configurations N P P N P <		۶	-	\mathbf{F}	4	+	*	•	1	1	1	ŧ	~
Traffic Oxigning (vph) 78 214 29 12 280 79 30 16 12 79 12 82 Future Volume (vph) 780 1900 100 100	Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Oxlume (vph) 78 214 29 12 280 79 30 16 12 79 12 82 ideal Flow (vphp) 1900 100 100 100 <t< td=""><td>Lane Configurations</td><td>ľ</td><td>≜1≱</td><td></td><td>7</td><td>∱1≽</td><td></td><td>7</td><td>el el</td><td></td><td></td><td>ا</td><td>1</td></t<>	Lane Configurations	ľ	≜1 ≱		7	∱1 ≽		7	el el			ا	1
Future (vph) 78 214 29 12 280 79 30 16 12 79 12 82 ideal Flow (vph) 1900 100 100 100 100 <td></td> <td></td> <td></td> <td>29</td> <td>12</td> <td></td> <td>79</td> <td></td> <td></td> <td>12</td> <td>79</td> <td></td> <td>82</td>				29	12		79			12	79		82
ideal Flow (php) 1900		78		29	12	280	79	30	16	12	79	12	
Storage Length (ft) 125 0 50 0 0 0 75 Storage Lanes 1 0 1 0 1 0 0 75 Lane Ulti, Factor 1.00 0.95 0.95 1.00 <td>(, , ,</td> <td>1900</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1900</td> <td></td> <td>1900</td> <td>1900</td> <td>1900</td> <td>1900</td>	(, , ,	1900						1900		1900	1900	1900	1900
Storage Lanes 1 0 1 0 1 0 0 1 Taper Length (t) 75 50 25 26 0.950 0.101 100 100 100 100 100 100 100 100 100 100 100 100	(, , , ,												
Tape Length (t) 75 50 25 25 Lane Util, Factor 1.00 0.95 0.95 0.95 0.95 0.967 0.936 0.950 0.950 FIt Protected 0.950 0.753 55 <				0				1		0	0		
Lane Util. Factor 1.00 0.95 0.95 1.00 0.95 0.96 0.936 0.936 0.936 0.936 0.936 0.950								25					
Frt 0.962 0.967 0.936 0.950 0.950 FIt Protected 0.950 0.950 0.950 0.950 0.950 SatJ. Flow (prot) 1736 334 0 1085 336 0 1752 1741 0 0 1509 FIt Permitted 0.475 0.571 0.619 0.730 1509 SatJ. Flow (perm) 868 3344 0 1085 336 0 1142 1741 0 0 1375 1509 SatJ. Flow (perm) 868 3344 0 1085 336 0 1142 1741 0 0 1375 1509 SatJ. Flow (prot) 78 330 30 30 30 30 30 100 100 100 100 100 174 30 776 6.82 0.			0.95	0.95		0.95	0.95		1.00	1.00		1.00	1.00
Fit Protected 0.950 0.950 0.950 0.950 0.959 Satd. Flow (prot) 1736 3344 0 1805 3396 0 1752 1741 0 0 1806 1509 Satd. Flow (perm) 868 3344 0 1085 3396 0 1142 1741 0 0 1375 1509 Satd. Flow (perm) 868 3344 0 1085 3396 0 1142 1741 0 0 1375 1509 Satd. Flow (PROR) 18 15 100													
Satd. Flow (prot) 1736 3344 0 1805 3396 0 1752 1741 0 0 1806 1509 FI Permitted 0.475 0.571 0.619 0.730 0.730 0.730 Satd. Flow (perm) 868 3344 0 1085 3396 0 1142 1741 0 0 1375 1509 Right Turn on Red Yes No Yes Yes Yes Yes Yes Stat. Flow (RTOR) 18 - 5.5 6.2 .6.8 100 Link Distance (ft) 404 244 271 .300 - 780 Add Parket (Ft) 306 31 30 .5 6.2 .6.8 .6.8 .6.8 .6.8 .6.8 .6.9 .6.8 <t< td=""><td></td><td>0.950</td><td>0.002</td><td></td><td>0.950</td><td>01001</td><td></td><td>0.950</td><td>0.000</td><td></td><td></td><td>0.959</td><td>0.000</td></t<>		0.950	0.002		0.950	01001		0.950	0.000			0.959	0.000
Fit Permitted 0.475 0.571 0.619 0.730 Satd. Flow (perm) 868 3344 0 1085 3396 0 1142 1741 0 0 1375 1509 Satd. Flow (RTOR) 18 15 100 100 100 100 100 100 Link Dstance (ft) 404 244 271 300 30 30 30 100 17avel Time (s) 9.2 5.5 6.2 6.8 0.82			3344	0		3396	0		1741	0	0		1509
Satd. Flow (perm) 868 3344 0 1085 3396 0 1142 1741 0 0 1375 1509 Right Turn on Red Yes No Yes Yes<	, ,		0011	Ū		0000	Ū			Ŭ	Ŭ		1000
Right Turn on Red Yes No Yes Yes Yes Satd. Flow (RTOR) 18 15 100 Link Speed (mph) 30 30 30 30 Link Distance (ft) 404 244 271 300 Travel Time (s) 9.2 5.5 6.2 6.8 Peak Hour Factor 0.82			3344	0		3396	0		1741	0	0		1509
	, ,	000	0011		1000	0000		1112		•	Ŭ	1010	
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Travel Time (s) 9.2 5.5 6.2 6.8 Peak Hour Factor 0.82<													
Peak Hour Factor 0.82 <th0.83< th=""> 0.82 0.82</th0.83<>	()												
Heavy Vehicles (%) 4% 6% 6% 0% 3% 2% 3% 0% 5% 1% 0% 7% Adj. Flow (vph) 95 261 35 15 341 96 37 20 15 96 15 100 Shared Lane Traffic (%) 111 100 Eane Group Flow (vph) 95 296 0 15 437 0 37 35 0 0 1111 100 Enter Blocked Intersection No		0 82		0 82	0 83		0 83	0.82		0.82	0.82		0.82
Adj. Flow (vph) 95 261 35 15 341 96 37 20 15 96 15 100 Shared Lane Traffic (%) 37 35 0 0 111 100 Lane Group Flow (vph) 95 296 0 15 437 0 37 35 0 0 111 100 Enter Blocked Intersection No													
Shared Lane Traffic (%) Lane Group Flow (vph) 95 296 0 15 437 0 37 35 0 0 111 100 Enter Blocked Intersection No													
Lane Group Flow (vph) 95 296 0 15 437 0 37 35 0 0 111 100 Enter Blocked Intersection No N		90	201	35	15	341	90	37	20	15	90	15	100
Enter Blocked Intersection No No <th< td=""><td></td><td>05</td><td>200</td><td>0</td><td>15</td><td>107</td><td>0</td><td>27</td><td>25</td><td>0</td><td>0</td><td>111</td><td>100</td></th<>		05	200	0	15	107	0	27	25	0	0	111	100
Lane Alignment Left Left Right Median Width(ft) 12 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>										-			
Median Width(ft) 12 12 12 12 12 12 Link Offset(ft) 0													
Link Offset(ft) 0 0 0 0 0 Crosswalk Width(ft) 16 16 16 16 16 16 16 100 1.0 1.00 <td></td> <td>Len</td> <td></td> <td>Right</td> <td>Len</td> <td></td> <td>Right</td> <td>Len</td> <td></td> <td>Right</td> <td>Len</td> <td></td> <td>Right</td>		Len		Right	Len		Right	Len		Right	Len		Right
Crosswalk Width(ft) 16 16 16 16 16 Two way Left Turn Lane Headway Factor 1.00													
Two way Left Turn Lane Headway Factor 1.00	()												
Headway Factor1.00<	、 <i>,</i>		16			16			16			16	
Turning Speed (mph)1591591591599Turn Typepm+ptNApm+ptNAPermNAPermNAPermProtected Phases5216488Permitted Phases264488Detector Phase52164488Switch Phase		4 00	4.00	4.00	4 00	4.00	4.00	4 00	4.00	4 00	4 00	4.00	4.00
Turn Typepm+ptNApm+ptNAPermNAPermNAPermProtected Phases521648Permitted Phases264488Detector Phase52164488Switch Phase521644888Switch Phase521167.07.07.07.07.0Minimum Initial (s)5.015.05.015.07.07.07.07.07.0Minimum Split (s)9.124.59.024.524.624.612.612.612.612.6Total Split (s)18.070.018.070.032.0 </td <td></td> <td></td> <td>1.00</td> <td></td> <td></td> <td>1.00</td> <td></td> <td></td> <td>1.00</td> <td></td> <td></td> <td>1.00</td> <td></td>			1.00			1.00			1.00			1.00	
Protected Phases 5 2 1 6 4 8 Permitted Phases 2 6 4 8 8 Detector Phase 5 2 1 6 4 4 8 8 Switch Phase 5 2 1 6 4 4 8 8 8 Minimum Initial (s) 5.0 15.0 5.0 15.0 7.0				y			y			9			-
Permitted Phases26488Detector Phase52164488Switch PhaseMinimum Initial (s)5.015.05.015.07.07.07.07.0Minimum Split (s)9.124.59.024.524.624.612.612.612.6Total Split (s)18.070.018.070.032.032.032.032.032.032.0Total Split (%)15.0%58.3%15.0%58.3%26.7%26.7%26.7%26.7%26.7%26.7%Maximum Green (s)13.963.514.063.526.426.426.426.426.4Yellow Time (s)3.14.13.04.13.33.33.33.33.33.3All-Red Time (s)1.02.41.02.42.32.32.32.32.32.3Lost Time Adjust (s)0.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Perm</td><td></td><td></td><td>Perm</td><td></td><td>Perm</td></td<>								Perm			Perm		Perm
Detector Phase 5 2 1 6 4 4 8 8 Switch Phase 5 2 1 6 4 4 8 8 8 Minimum Initial (s) 5.0 15.0 5.0 15.0 7.0 7.0 7.0 7.0 7.0 Minimum Split (s) 9.1 24.5 9.0 24.5 24.6 24.6 12.6 12.6 12.6 Total Split (s) 18.0 70.0 18.0 70.0 32			2			6			4		•	8	
Switch Phase Minimum Initial (s) 5.0 15.0 5.0 15.0 7.0 7.0 7.0 7.0 Minimum Split (s) 9.1 24.5 9.0 24.5 24.6 24.6 12.6 12.6 12.6 Total Split (s) 18.0 70.0 18.0 70.0 32.0		-											
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Minimum Split (s)9.124.59.024.524.624.612.612.612.612.6Total Split (s)18.070.018.070.032.032.032.032.032.032.0Total Split (%)15.0%58.3%15.0%58.3%26.7%26.7%26.7%26.7%26.7%26.7%Maximum Green (s)13.963.514.063.526.426.426.426.426.4Yellow Time (s)3.14.13.04.13.33.33.33.33.3All-Red Time (s)1.02.41.02.42.32.32.32.32.3Lost Time Adjust (s)0.00.00.00.00.00.00.00.0Total Lost Time (s)4.16.54.06.55.65.65.65.6Lead/LagLeadLagLeadLagLeadLagLeadLagLead-Lag Optimize?YesYesYesYesYesYesYesVehicle Extension (s)2.02						(= 0							
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Yellow Time (s) 3.1 4.1 3.0 4.1 3.3 2.3													
All-Red Time (s) 1.0 2.4 1.0 2.4 2.3 <td></td>													
Lost Time Adjust (s) 0.0													
Total Lost Time (s) 4.1 6.5 4.0 6.5 5.6	. ,										2.3		
Lead/LagLeadLagLead-Lag Optimize?YesYesVehicle Extension (s)2.02.02.02.02.02.02.02.0	Lost Time Adjust (s)												
Lead-Lag Optimize? Yes Yes Yes Yes Vehicle Extension (s) 2.0 <	Total Lost Time (s)	4.1	6.5		4.0	6.5		5.6	5.6			5.6	5.6
Vehicle Extension (s) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		Lead	Lag		Lead	Lag							
Vehicle Extension (s) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
	- ·	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Recail Mode None C-Min None C-Min None None None None None None	Recall Mode	None	C-Min		None	C-Min		None	None		None	None	None

AM Peak Hour - Langan 140285301 - Stamford Cannabis - Background.syn

Lanes, Volumes, Timings

Background AM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0				
Flash Dont Walk (s)		11.0			11.0		12.0	12.0				
Pedestrian Calls (#/hr)		2			1		2	2				
Act Effct Green (s)	95.4	90.2		91.2	83.7		14.1	14.1			14.1	14.1
Actuated g/C Ratio	0.80	0.75		0.76	0.70		0.12	0.12			0.12	0.12
v/c Ratio	0.12	0.11		0.01	0.18		0.27	0.16			0.68	0.37
Control Delay (s/veh)	3.4	4.9		2.5	5.5		51.4	31.3			71.4	12.7
Queue Delay	0.0	0.0		0.0	0.3		0.0	0.0			0.0	0.0
Total Delay (s/veh)	3.4	4.9		2.5	5.8		51.4	31.3			71.4	12.7
LOS	А	А		А	А		D	С			Е	В
Approach Delay (s/veh)		4.6			5.8			41.7			43.6	
Approach LOS		А			А			D			D	
Queue Length 50th (ft)	12	22		1	38		27	14			84	0
Queue Length 95th (ft)	28	51		5	41		52	38			125	38
Internal Link Dist (ft)		324			164			191			220	
Turn Bay Length (ft)	125			50								75
Base Capacity (vph)	796	2517		954	2368		251	394			302	409
Starvation Cap Reductn	0	0		0	1333		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.12	0.12		0.02	0.42		0.15	0.09			0.37	0.24
Intersection Summary												
Area Type:	Other											

Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length	n: 120		
Offset: 19 (16%), Refe	erenced to phase 2:EBTL and 6:WBTL	, Start of Yellow	
Natural Cycle: 60			
Control Type: Actuated	d-Coordinated		
Maximum v/c Ratio: 0.	.69		
Intersection Signal Del	lay (s/veh): 14.7	Intersection LOS: B	
Intersection Capacity L	Utilization 42.0%	ICU Level of Service A	
Analysis Period (min)	15		

Splits and Phases: 1: Waterbury Avenue/Hamilton Avenue & East Main Street

f Ø1	∠, Ø2 (R)		←↑ _{Ø4}
18 s	70 s		32 s
J _{ø5}	✓ Ø6 (R)	U	
18 s	70 s		32 s

Background AM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ľ	∱ ₽		7	∱ ⊅			र्च	1		\$	
Traffic Volume (vph)	31	225	46	63	319	15	41	1	60	1	1	0
Future Volume (vph)	31	225	46	63	319	15	41	1	60	1	1	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50		0	100		0	0		75	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	50			75			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.975			0.993				0.850			
Flt Protected	0.950			0.950				0.953			0.976	
Satd. Flow (prot)	1805	3363	0	1787	3485	0	0	1776	1599	0	1854	0
Flt Permitted	0.494			0.534				0.729			0.854	
Satd. Flow (perm)	939	3363	0	1005	3485	0	0	1358	1599	0	1623	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		30			6				80			
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		244			147			233			145	
Travel Time (s)		5.5			3.3			5.3			3.3	
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles (%)	0%	5%	3%	1%	3%	0%	2%	0%	1%	0%	0%	0%
Adj. Flow (vph)	41	300	61	84	425	20	55	1	80	1	1	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	41	361	0	84	445	0	0	56	80	0	2	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	Ŭ		12	Ŭ		0	Ŭ		0	Ŭ
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	5	2			6			4			4	
Permitted Phases	2			6			4		4	4		
Detector Phase	5	2		1	6		4	4	4	4	4	
Switch Phase												
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	9.0	34.6		9.0	34.6		25.7	25.7	25.7	25.7	25.7	
Total Split (s)	17.0	70.0		17.0	70.0		33.0	33.0	33.0	33.0	33.0	
Total Split (%)	14.2%	58.3%		14.2%	58.3%		27.5%	27.5%	27.5%	27.5%	27.5%	
Maximum Green (s)	13.0	63.4		13.0	63.4		27.3	27.3	27.3	27.3	27.3	
Yellow Time (s)	3.0	4.0		3.0	4.0		3.7	3.7	3.7	3.7	3.7	
All-Red Time (s)	1.0	2.6		1.0	2.6		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	4.0	6.6		4.0	6.6			5.7	5.7		5.7	
Lead/Lag	Lead	Lag		Lead	Lag			•	•		•	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	
		0.000			0.000							

AM Peak Hour - Langan 140285301 - Stamford Cannabis - Background.syn

Background AM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)		21.0			21.0		13.0	13.0	13.0	13.0	13.0	
Pedestrian Calls (#/hr)		0			0		0	0	0	0	0	
Act Effct Green (s)	99.6	94.1		100.4	94.5			9.7	9.7		9.7	
Actuated g/C Ratio	0.83	0.78		0.84	0.79			0.08	0.08		0.08	
v/c Ratio	0.05	0.13		0.09	0.16			0.51	0.39		0.01	
Control Delay (s/veh)	3.3	6.0		2.1	4.4			68.4	16.7		48.5	
Queue Delay	0.0	0.2		0.0	0.0			0.0	0.0		0.0	
Total Delay (s/veh)	3.3	6.3		2.1	4.4			68.4	16.7		48.5	
LOS	А	Α		Α	Α			Е	В		D	
Approach Delay (s/veh)		6.1			4.1			38.0			48.5	
Approach LOS		Α			Α			D			D	
Queue Length 50th (ft)	9	67		8	45			43	0		1	
Queue Length 95th (ft)	14	51		16	58			69	29		8	
Internal Link Dist (ft)		164			67			153			65	
Turn Bay Length (ft)	50			100					75			
Base Capacity (vph)	900	2644		948	2746			308	425		369	
Starvation Cap Reductn	0	1676		0	0			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.05	0.37		0.09	0.16			0.18	0.19		0.01	
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 12	20											
Offset: 25 (21%), Reference	ced to phase	2:EBTL a	ind 6:WB	TL, Start	of Yellow							
Natural Cycle: 70												
Control Type: Actuated-Co	oordinated											
Maximum v/c Ratio: 0.51												
Intersection Signal Delay ((s/veh): 9.2				tersectior							
Intersection Capacity Utiliz	zation 39.2%			IC	U Level o	of Service	А					
Analysis Period (min) 15												

Splits and Phases: 2: Weed Avenue/1290 E Main St Driveway & East Main Street

ſ	Ø1	→ _{Ø2 (R)}		₩ _{Ø4}
17 s		70 s	33	3 s 🛛 🚽 🚽
5	Ø5	Ø6 (R)		
17 s		70 s		

Lanes, Volumes, Timings

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<u>۲</u>	∱1 ≱		1	∱1 ≱		۲.	ef 👘			र्भ	1
Traffic Volume (vph)	83	605	31	4	216	67	30	12	14	118	16	63
Future Volume (vph)	83	605	31	4	216	67	30	12	14	118	16	63
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	125		0	50		0	0		0	0		75
Storage Lanes	1		0	1		0	1		0	0		1
Taper Length (ft)	75			50			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.993			0.965			0.917				0.850
Flt Protected	0.950			0.950			0.950				0.958	
Satd. Flow (prot)	1787	3518	0	1805	3431	0	1805	1727	0	0	1816	1583
Flt Permitted	0.534			0.383			0.524				0.731	
Satd. Flow (perm)	1005	3518	0	728	3431	0	996	1727	0	0	1386	1583
Right Turn on Red			Yes			No			Yes			Yes
Satd. Flow (RTOR)		5						16				70
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		404			244			271			300	
Travel Time (s)		9.2			5.5			6.2			6.8	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	1%	2%	0%	0%	2%	0%	0%	2%	0%	0%	2%	2%
Adj. Flow (vph)	92	672	34	4	240	74	33	13	16	131	18	70
Shared Lane Traffic (%)	52	012	04		240	14	00	10	10	101	10	10
Lane Group Flow (vph)	92	706	0	4	314	0	33	29	0	0	149	70
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Lon	12	rugiit	Lon	12	rugit	Lon	12	rugitt	Lon	12	rugin
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10			10			10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	1.00	1.00	9	1.00	1.00	9	1.00	1.00	9	15	1.00	9
Turn Type	pm+pt	NA	5	pm+pt	NA	5	Perm	NA	5	Perm	NA	Perm
Protected Phases	5	2		1	6		1 Onn	4		i onn	8	i onn
Permitted Phases	2	2		6	U		4	т		8	0	8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase	U	2		1	U			т		0	0	U
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	9.1	24.5		9.0	24.5		24.6	24.6		12.6	12.6	12.6
Total Split (s)	19.0	56.0		19.0	56.0		45.0	45.0		45.0	45.0	45.0
Total Split (%)	15.8%	46.7%		15.8%	46.7%		37.5%	37.5%		37.5%	37.5%	37.5%
Maximum Green (s)	14.9	49.5		15.0	49.5		39.4	39.4		39.4	39.4	39.4
Yellow Time (s)	3.1	4.1		3.0	4.1		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	1.0	2.4		1.0	2.4		2.3	2.3		2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		2.5	0.0	0.0
Total Lost Time (s)	4.1	6.5		4.0	6.5		0.0 5.6	5.6			0.0 5.6	0.0 5.6
. ,							5.0	5.0			5.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes		0.0	0.0		2.0	0.0	2.0
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min		None	None		None	None	None

PM Peak Hour - Langan 140285301 - Stamford Cannabis - Background.syn

Lanes, Volumes, Timings

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0				
Flash Dont Walk (s)		11.0			11.0		12.0	12.0				
Pedestrian Calls (#/hr)		2			1		2	2				
Act Effct Green (s)	92.6	88.6		87.7	80.2		17.5	17.5			17.5	17.5
Actuated g/C Ratio	0.77	0.74		0.73	0.67		0.15	0.15			0.15	0.15
v/c Ratio	0.11	0.27		0.00	0.13		0.22	0.10			0.73	0.24
Control Delay (s/veh)	4.3	6.3		6.0	11.7		46.5	24.9			69.3	11.4
Queue Delay	0.0	0.0		0.0	0.4		0.0	0.0			0.0	0.0
Total Delay (s/veh)	4.3	6.3		6.0	12.1		46.5	24.9			69.3	11.4
LOS	А	А		А	В		D	С			Е	В
Approach Delay (s/veh)		6.1			12.1			36.4			50.9	
Approach LOS		А			В			D			D	
Queue Length 50th (ft)	14	75		1	63		23	9			112	0
Queue Length 95th (ft)	35	163		3	102		52	34			173	39
Internal Link Dist (ft)		324			164			191			220	
Turn Bay Length (ft)	125			50								75
Base Capacity (vph)	874	2598		698	2292		327	577			455	566
Starvation Cap Reductn	0	0		0	1512		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.11	0.27		0.01	0.40		0.10	0.05			0.33	0.12
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 12												
Offset: 38 (32%), Referen	ced to phase	2:EBTL a	and 6:WB	TL, Start	of Yellow							
Natural Cycle: 60												

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.74 Intersection Signal Delay (s/veh): 15.8

Intersection Capacity Utilization 49.3% Analysis Period (min) 15 Intersection LOS: B ICU Level of Service A

Splits and Phases: 1: Waterbury Avenue/Hamilton Avenue & East Main Street



Background PM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	∱ ₽		7	↑î≽			र्च	1		\$	
Traffic Volume (vph)	1	705	74	65	226	1	56	0	92	4	0	6
Future Volume (vph)	1	705	74	65	226	1	56	0	92	4	0	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50		0	100		0	0		75	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	50			75			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.986			0.999				0.850		0.921	
Flt Protected	0.950			0.950				0.950			0.980	
Satd. Flow (prot)	1805	3528	0	1805	3536	0	0	1805	1599	0	1715	0
Flt Permitted	0.591			0.291				0.750			0.868	
Satd. Flow (perm)	1123	3528	0	553	3536	0	0	1425	1599	0	1519	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		14							106		69	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		244			147			233			145	
Travel Time (s)		5.5			3.3			5.3			3.3	
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles (%)	0%	1%	0%	0%	2%	0%	0%	0%	1%	0%	0%	0%
Adj. Flow (vph)	1	810	85	75	260	1	64	0	106	5	0	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	1	895	0	75	261	0	0	64	106	0	12	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	Ŭ		12	Ŭ		0	Ŭ		0	Ŭ
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases	2			6			4		4	4		
Detector Phase	5	2		1	6		4	4	4	4	4	
Switch Phase												
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	9.0	34.6		9.0	34.6		25.7	25.7	25.7	25.7	25.7	
Total Split (s)	16.0	71.0		16.0	71.0		33.0	33.0	33.0	33.0	33.0	
Total Split (%)	13.3%	59.2%		13.3%	59.2%		27.5%	27.5%	27.5%	27.5%	27.5%	
Maximum Green (s)	12.0	64.4		12.0	64.4		27.3	27.3	27.3	27.3	27.3	
Yellow Time (s)	3.0	4.0		3.0	4.0		3.7	3.7	3.7	3.7	3.7	
All-Red Time (s)	1.0	2.6		1.0	2.6		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	4.0	6.6		4.0	6.6			5.7	5.7		5.7	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	

PM Peak Hour - Langan 140285301 - Stamford Cannabis - Background.syn

Background PM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)		21.0			21.0		13.0	13.0	13.0	13.0	13.0	
Pedestrian Calls (#/hr)		0			0		0	0	0	0	0	
Act Effct Green (s)	96.4	89.8		99.6	95.7			10.2	10.2		10.2	
Actuated g/C Ratio	0.80	0.75		0.83	0.80			0.09	0.09		0.09	
v/c Ratio	0.00	0.33		0.14	0.09			0.53	0.45		0.06	
Control Delay (s/veh)	2.0	4.4		2.6	3.3			67.7	15.7		0.6	
Queue Delay	0.0	0.2		0.0	0.0			0.0	0.0		0.0	
Total Delay (s/veh)	2.0	4.7		2.6	3.3			67.7	15.7		0.6	
LOS	А	А		А	А			Е	В		А	
Approach Delay (s/veh)		4.8			3.2			35.3			0.6	
Approach LOS		А			Α			D			А	
Queue Length 50th (ft)	0	97		7	16			49	0		0	
Queue Length 95th (ft)	m0	114		18	42			89	48		0	
Internal Link Dist (ft)		164			67			153			65	
Turn Bay Length (ft)	50			100					75			
Base Capacity (vph)	1004	2644		586	2820			324	445		398	
Starvation Cap Reductn	0	1014		0	0			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.00	0.55		0.13	0.09			0.20	0.24		0.03	
Intersection Summary												
	Other											
Cycle Length: 120												
Actuated Cycle Length: 120												
Offset: 44 (37%), Reference	d to phase	2:EBTL a	ind 6:WB	TL, Start	of Yellow							
Natural Cycle: 70												
Control Type: Actuated-Cool	rdinated											
Maximum v/c Ratio: 0.53												
Intersection Signal Delay (s/					tersectior							
Intersection Capacity Utilizat	tion 48.5%			IC	U Level o	of Service	Α					
Analysis Period (min) 15												
m Volume for 95th percent	tile queue i	s metered	l by upstr	eam sign	al.							
Splits and Phases: 2: Wee	od Avonus	1200 E M	lain Ct Dr	ivowov ^o	East Mai	n Straat						
Splits and Phases: 2: wee	ed Avenue/	1290 E IV	iain St Dr	iveway &	⊏ast Mai	n Street			•			



Lanes, Volumes, Timings

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	∱ ₽		ሻ	A		۲	eî.			र्भ	1
Traffic Volume (vph)	76	255	13	3	230	62	10	11	6	96	7	57
Future Volume (vph)	76	255	13	3	230	62	10	11	6	96	7	57
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	125		0	50		0	0		0	0		75
Storage Lanes	1		0	1		0	1		0	0		1
Taper Length (ft)	75		-	50		-	25		-	25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.993			0.968			0.945				0.850
Flt Protected	0.950			0.950	0.000		0.950	0.0.0			0.956	0.000
Satd. Flow (prot)	1805	3546	0	1805	3460	0	1805	1751	0	0	1800	1615
Flt Permitted	0.526	0010	Ū	0.568	0100	Ű	0.631	1101	Ű	Ŭ	0.727	1010
Satd. Flow (perm)	999	3546	0	1079	3460	0	1199	1751	0	0	1369	1615
Right Turn on Red	000	0010	Yes	1010	0100	No	1100	1101	Yes	Ŭ	1000	Yes
Satd. Flow (RTOR)		7	100			NO		7	100			75
Link Speed (mph)		30			30			30			30	15
Link Distance (ft)		404			244			271			300	
Travel Time (s)		9.2			5.5			6.2			6.8	
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.2	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	0.09	1%	3%	0.09	1%	1%	0.09	4%	0.09	1%	0.09	0.09
, ()	85	287	15	3	258	70	11	4 /0	7	108	8	64
Adj. Flow (vph) Shared Lane Traffic (%)	00	201	10	3	200	70	11	12	1	100	0	04
	85	302	0	3	328	0	11	19	0	0	116	64
Lane Group Flow (vph)	oo No		No				No			No		
Enter Blocked Intersection		No		No	No	No		No	No		No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane	4 00	4.00	4.00	4 0 0	4.00	4.00	4 00	4.00	4.00	4.00	4.00	4.00
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6			4		0	8	0
Permitted Phases	2	0		6	0		4	4		8	0	8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase										- •		
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	9.1	24.5		9.0	24.5		24.6	24.6		12.6	12.6	12.6
Total Split (s)	19.0	59.0		19.0	59.0		32.0	32.0		32.0	32.0	32.0
Total Split (%)	17.3%	53.6%		17.3%	53.6%		29.1%	29.1%		29.1%	29.1%	29.1%
Maximum Green (s)	14.9	52.5		15.0	52.5		26.4	26.4		26.4	26.4	26.4
Yellow Time (s)	3.1	4.1		3.0	4.1		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	1.0	2.4		1.0	2.4		2.3	2.3		2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	4.1	6.5		4.0	6.5		5.6	5.6			5.6	5.6
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min		None	None		None	None	None

SAT Peak Hour - Langan 140285301 - Stamford Cannabis - Background.syn

Lanes, Volumes, Timings

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0				
Flash Dont Walk (s)		11.0			11.0		12.0	12.0				
Pedestrian Calls (#/hr)		2			1		2	2				
Act Effct Green (s)	86.2	82.4		82.6	76.1		13.7	13.7			13.7	13.7
Actuated g/C Ratio	0.78	0.75		0.75	0.69		0.12	0.12			0.12	0.12
v/c Ratio	0.10	0.11		0.00	0.13		0.07	0.08			0.68	0.24
Control Delay (s/veh)	3.5	4.7		3.6	7.6		40.5	30.2			65.0	9.4
Queue Delay	0.0	0.0		0.0	0.3		0.0	0.0			0.0	0.0
Total Delay (s/veh)	3.5	4.7		3.6	8.0		40.5	30.2			65.0	9.4
LOS	А	Α		А	А		D	С			Е	Α
Approach Delay (s/veh)		4.5			8.0			34.0			45.3	
Approach LOS		А			А			С			D	
Queue Length 50th (ft)	11	23		1	46		7	8			80	0
Queue Length 95th (ft)	28	58		m3	101		22	28			131	30
Internal Link Dist (ft)		324			164			191			220	
Turn Bay Length (ft)	125			50								75
Base Capacity (vph)	895	2657		949	2393		287	425			328	444
Starvation Cap Reductn	0	0		0	1532		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.09	0.11		0.00	0.38		0.04	0.04			0.35	0.14
Intersection Summary												
· · / · ·	Other											
Cycle Length: 110												
Actuated Cycle Length: 110												
Offset: 31 (28%), Reference	ed to phase	2:EBTL a	ind 6:WB	TL, Start	of Yellow							
Natural Cycle: 60												
Control Type: Actuated-Coc	ordinated											
Maximum v/c Ratio: 0.68												
Intersection Signal Delay (s					tersectior							
Intersection Capacity Utiliza	ation 42.6%			IC	U Level o	of Service	A					
Analysis Period (min) 15												
m Volume for 95th percer	ntile queue i	s metered	l by upstr	eam sign	al.							

Splits and Phases: 1: Waterbury Avenue/Hamilton Avenue & East Main Street



Background SAT

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	A		۲	A			र्भ	1		4	
Traffic Volume (vph)	0	240	115	85	225	0	81	Ō	64	0	0	0
Future Volume (vph)	0	240	115	85	225	0	81	0	64	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50		0	100		0	0		75	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	50			75			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.951							0.850			
Flt Protected				0.950				0.950				
Satd. Flow (prot)	1900	3410	0	1787	3539	0	0	1787	1599	0	1900	0
Flt Permitted				0.489				0.757				
Satd. Flow (perm)	1900	3410	0	920	3539	0	0	1424	1599	0	1900	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		98							75			
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		244			147			233			145	
Travel Time (s)		5.5			3.3			5.3			3.3	
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles (%)	0%	1%	0%	1%	2%	0%	1%	0%	1%	0%	0%	0%
Adj. Flow (vph)	0	273	131	97	256	0	92	0	73	0	0	0
Shared Lane Traffic (%)	Ŭ	210	101	01	200	Ŭ	02	Ŭ	10	Ŭ	Ŭ	Ŭ
Lane Group Flow (vph)	0	404	0	97	256	0	0	92	73	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Lon	12	rugitt	Lon	12	rugitt	Lon	0	ragin	Lon	0	ragin
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10			10						10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15	1.00	9	15		9	15		9
Turn Type	pm+pt	NA	Ū	pm+pt	NA	Ű	Perm	NA	Perm	10		Ŭ
Protected Phases	5	2		1	6			4			4	
Permitted Phases	2	_		6	•		4	•	4	4		
Detector Phase	5	2		1	6		4	4	4	4	4	
Switch Phase	Ŭ	_		•	Ű		•	•	•	•	•	
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	9.0	34.6		9.0	34.6		25.7	25.7	25.7	25.7	25.7	
Total Split (s)	19.0	58.0		19.0	58.0		33.0	33.0	33.0	33.0	33.0	
Total Split (%)	17.3%	52.7%		17.3%	52.7%		30.0%	30.0%	30.0%	30.0%	30.0%	
Maximum Green (s)	15.0	51.4		15.0	51.4		27.3	27.3	27.3	27.3	27.3	
Yellow Time (s)	3.0	4.0		3.0	4.0		3.7	3.7	3.7	3.7	3.7	
All-Red Time (s)	1.0	2.6		1.0	2.6		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		2.0	0.0	0.0	2.0	0.0	
Total Lost Time (s)	4.0	6.6		4.0	6.6			5.7	5.7		5.7	
Lead/Lag	Lead	Lag		Lead	Lag			0.1	0.1		0.1	
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	
	NULLE			NOTE			NULLE	NOTE	NOTE	NULLE	NULLE	

SAT Peak Hour - Langan 140285301 - Stamford Cannabis - Background.syn

Background SAT

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Lane Group	EBL EB	t ebf	R WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)	7	0		7.0		7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)	21	0		21.0		13.0	13.0	13.0	13.0	13.0	
Pedestrian Calls (#/hr)		0		0		0	0	0	0	0	
Act Effct Green (s)	76		88.6	86.0			11.7	11.7			
Actuated g/C Ratio	0.6		0.81	0.78			0.11	0.11			
v/c Ratio	0.1		0.12	0.09			0.60	0.30			
Control Delay (s/veh)	8		2.9	3.2			63.2	13.0			
Queue Delay	0		0.0	0.0			0.0	0.0			
Total Delay (s/veh)	8	8	2.9	3.2			63.2	13.0			
LOS		A	Α	А			E	В			
Approach Delay (s/veh)	8	9		3.2			41.0				
Approach LOS		A		А			D				
Queue Length 50th (ft)		2	11	17			63	0			
Queue Length 95th (ft)		2	26	33			109	38			
Internal Link Dist (ft)	16	4		67			153			65	
Turn Bay Length (ft)			100					75			
Base Capacity (vph)	239		859	2767			353	453			
Starvation Cap Reductn	148		0	0			0	0			
Spillback Cap Reductn		0	0	0			0	0			
Storage Cap Reductn		0	0	0			0	0			
Reduced v/c Ratio	0.4	4	0.11	0.09			0.26	0.16			
Intersection Summary											
)	Other										
Cycle Length: 110											
Actuated Cycle Length: 110											
Offset: 37 (34%), Referenced	to phase 2:EB	L and 6:V	VBTL, Start	of Yellow	1						
Natural Cycle: 70											
Control Type: Actuated-Coord	dinated										
Maximum v/c Ratio: 0.61											
Intersection Signal Delay (s/v				ntersectio							
Intersection Capacity Utilizati	on 36.6%		10	CU Level	of Service	A					
Analysis Period (min) 15											

Splits and Phases: 2: Weed Avenue/1290 E Main St Driveway & East Main Street

f Ø1	→ Ø2 (R)	↓ <i>∞</i> 4
19 s	58 s	33 s
⊅ _{ø5}	♥ Ø6 (R)	
19 s	58 s	

Lanes, Volumes, Timings

Build AM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	∱ ₽		ሻ	A		۲	eî 👘			र्स	1
Traffic Volume (vph)	78	222	29	12	288	81	30	16	12	81	12	82
Future Volume (vph)	78	222	29	12	288	81	30	16	12	81	12	82
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	125		0	50		0	0		0	0		75
Storage Lanes	1		0	1		0	1		0	0		1
Taper Length (ft)	75			50			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.983			0.967			0.936				0.850
Flt Protected	0.950			0.950			0.950				0.958	
Satd. Flow (prot)	1736	3348	0	1805	3396	0	1752	1741	0	0	1805	1509
Flt Permitted	0.469			0.565			0.610				0.729	
Satd. Flow (perm)	857	3348	0	1074	3396	0	1125	1741	0	0	1373	1509
Right Turn on Red			Yes			No			Yes			Yes
Satd. Flow (RTOR)		18						15				100
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		404			244			271			300	
Travel Time (s)		9.2			5.5			6.2			6.8	
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Heavy Vehicles (%)	4%	6%	6%	0%	3%	2%	3%	0%	5%	1%	0%	7%
Adj. Flow (vph)	95	271	35	15	351	99	37	20	15	99	15	100
Shared Lane Traffic (%)												
Lane Group Flow (vph)	95	306	0	15	450	0	37	35	0	0	114	100
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12		-0.1	12			12		_0.1	12	. ugint
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA	Ū	pm+pt	NA	Ű	Perm	NA	Ű	Perm	NA	Perm
Protected Phases	5	2		1	6			4			8	
Permitted Phases	2	-		6	Ŭ		4	•		8	Ű	8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase	Ū	-			Ŭ					Ű	Ű	Ű
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	9.1	24.5		9.0	24.5		24.6	24.6		12.6	12.6	12.6
Total Split (s)	18.0	70.0		18.0	70.0		32.0	32.0		32.0	32.0	32.0
Total Split (%)	15.0%	58.3%		15.0%	58.3%		26.7%	26.7%		26.7%	26.7%	26.7%
Maximum Green (s)	13.9	63.5		14.0	63.5		26.4	26.4		26.4	26.4	26.4
Yellow Time (s)	3.1	4.1		3.0	4.1		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	1.0	2.4		1.0	2.4		2.3	2.3		2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		2.5	0.0	0.0
Total Lost Time (s)	4.1	6.5		4.0	6.5		5.6	5.6			5.6	5.6
Lead/Lag	Lead	Lag		Lead	Lag		5.0	5.0			5.0	5.0
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Vehicle Extension (s)												
Recall Mode	None	C-Min		None	C-Min		None	None		None	None	None

AM Peak Hour - Langan 140285301 - Stamford Cannabis - Build.syn Langan Page 1

Lanes, Volumes, Timings

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0				
Flash Dont Walk (s)		11.0			11.0		12.0	12.0				
Pedestrian Calls (#/hr)		2			1		2	2				
Act Effct Green (s)	95.2	90.0		91.0	83.5		14.3	14.3			14.3	14.3
Actuated g/C Ratio	0.79	0.75		0.76	0.70		0.12	0.12			0.12	0.12
v/c Ratio	0.13	0.12		0.01	0.19		0.27	0.15			0.69	0.37
Control Delay (s/veh)	3.5	5.0		2.5	5.3		51.1	31.1			71.8	12.6
Queue Delay	0.0	0.0		0.0	0.3		0.0	0.0			0.0	0.0
Total Delay (s/veh)	3.5	5.0		2.5	5.7		51.1	31.1			71.8	12.6
LOS	А	Α		А	А		D	С			Е	В
Approach Delay (s/veh)		4.7			5.6			41.4			44.2	
Approach LOS		А			А			D			D	
Queue Length 50th (ft)	13	23		2	39		27	14			86	0
Queue Length 95th (ft)	28	53		5	41		52	38			127	38
Internal Link Dist (ft)		324			164			191			220	
Turn Bay Length (ft)	125			50								75
Base Capacity (vph)	787	2514		945	2361		247	394			302	409
Starvation Cap Reductn	0	0		0	1309		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.12	0.12		0.02	0.43		0.15	0.09			0.38	0.24
Intersection Summary												

intersection outlinary		
Area Type: Other		
Cycle Length: 120		
Actuated Cycle Length: 120		
Offset: 19 (16%), Referenced to phase 2:EBTL and 6:	WBTL, Start of Yellow	
Natural Cycle: 60		
Control Type: Actuated-Coordinated		
Maximum v/c Ratio: 0.70		
Intersection Signal Delay (s/veh): 14.7	Intersection LOS: B	
Intersection Capacity Utilization 42.1%	ICU Level of Service A	
Analysis Period (min) 15		

Splits and Phases: 1: Waterbury Avenue/Hamilton Avenue & East Main Street

f Ø1		∽↑ _{Ø4}
18 s	70 s	32 s
J _{ø5}	✓ Ø6 (R)	
18 s	70 s	32 s

Build AM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	∱1 ≽		ኘ	A			र्भ	1		\$	
Traffic Volume (vph)	31	235	46	66	329	15	41	1	64	1	1	0
Future Volume (vph)	31	235	46	66	329	15	41	1	64	1	1	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50		0	100		0	0		75	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	50			75			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.976			0.993				0.850			
Flt Protected	0.950			0.950				0.953			0.976	
Satd. Flow (prot)	1805	3366	0	1787	3485	0	0	1776	1599	0	1854	0
Flt Permitted	0.488			0.521				0.729			0.872	
Satd. Flow (perm)	927	3366	0	980	3485	0	0	1358	1599	0	1657	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		29			6				85			
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		244			147			233			145	
Travel Time (s)		5.5			3.3			5.3			3.3	
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles (%)	0%	5%	3%	1%	3%	0%	2%	0%	1%	0%	0%	0%
Adj. Flow (vph)	41	313	61	88	439	20	55	1	85	1	1	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	41	374	0	88	459	0	0	56	85	0	2	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	Ŭ		12	Ŭ		0	Ŭ		0	Ŭ
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases	2			6			4		4	4		
Detector Phase	5	2		1	6		4	4	4	4	4	
Switch Phase												
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	9.0	34.6		9.0	34.6		25.7	25.7	25.7	25.7	25.7	
Total Split (s)	17.0	70.0		17.0	70.0		33.0	33.0	33.0	33.0	33.0	
Total Split (%)	14.2%	58.3%		14.2%	58.3%		27.5%	27.5%	27.5%	27.5%	27.5%	
Maximum Green (s)	13.0	63.4		13.0	63.4		27.3	27.3	27.3	27.3	27.3	
Yellow Time (s)	3.0	4.0		3.0	4.0		3.7	3.7	3.7	3.7	3.7	
All-Red Time (s)	1.0	2.6		1.0	2.6		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	4.0	6.6		4.0	6.6			5.7	5.7		5.7	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	

AM Peak Hour - Langan 140285301 - Stamford Cannabis - Build.syn

Lane Group Walk Time (s) Flash Dont Walk (s) Pedestrian Calls (#/hr) Act Effct Green (s) Actuated g/C Ratio

v/c Ratio

LOS

Control Delay (s/veh) Queue Delay Total Delay (s/veh)

Approach Delay (s/veh)

imings			-							Bu	uild AM
٦	-	\mathbf{F}	•	-	•	•	1	1	1	Ŧ	~
EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
	7.0			7.0		7.0	7.0	7.0	7.0	7.0	
	21.0			21.0		13.0	13.0	13.0	13.0	13.0	
	0			0		0	0	0	0	0	
96.2	88.4		97.9	90.7			9.7	9.7		9.7	
0.80	0.74		0.82	0.76			0.08	0.08		0.08	
0.05	0.15		0.10	0.17			0.51	0.41		0.01	
3.3	6.9		2.2	4.7			68.4	16.6		48.5	
0.0	0.4		0.0	0.0			0.0	0.0		0.0	
3.3	7.4		2.2	4.7			68.4	16.6		48.5	
А	А		А	А			Е	В		D	
	7.0			4.3			37.2			48.5	

					••••=		
Approach LOS		А		А	D		D
Queue Length 50th (ft)	9	70	8	46	43	0	1
Queue Length 95th (ft)	14	52	17	61	69	29	8
Internal Link Dist (ft)		164		67	153		65
Turn Bay Length (ft)	50		100			75	
Base Capacity (vph)	872	2487	909	2634	308	429	376
Starvation Cap Reductn	0	1659	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.05	0.45	0.10	0.17	0.18	0.20	0.01
Intersection Summary							

Area Type: Other		
Cycle Length: 120		
Actuated Cycle Length: 120		
Offset: 25 (21%), Referenced to phase 2:EBTL and 6:	WBTL, Start of Yellow	
Natural Cycle: 70		
Control Type: Actuated-Coordinated		
Maximum v/c Ratio: 0.51		
Intersection Signal Delay (s/veh): 9.6	Intersection LOS: A	
Intersection Capacity Utilization 39.2%	ICU Level of Service A	
Analysis Period (min) 15		

Splits and Phases: 2: Weed Avenue/1290 E Main St Driveway & East Main Street

ſ	Ø1	Ø2 (R)	U	₩ ø4
17 s		70 s		33 s
) 17 s	Ø5	Ø6 (R)		

3: East Main Street Lanes, Volumes, Timings

	٦	-	+	•	1	~
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		-4 †	A		¥	
Traffic Volume (vph)	14	270	396	9	9	13
Future Volume (vph)	14	270	396	9	9	13
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Frt			0.997		0.921	
Flt Protected		0.998			0.980	
Satd. Flow (prot)	0	3532	3529	0	1681	0
Flt Permitted		0.998			0.980	
Satd. Flow (perm)	0	3532	3529	0	1681	0
Link Speed (mph)		30	30		30	
Link Distance (ft)		147	356		118	
Travel Time (s)		3.3	8.1		6.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	15	293	430	10	10	14
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	308	440	0	24	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(ft)		0	0		0	
Link Offset(ft)		0	0		0	
Crosswalk Width(ft)		16	16		16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15			9	15	9
Sign Control		Free	Free		Stop	
Intersection Summary						
Area Type: C	Other					
Control Type: Unsignalized						
Intersection Capacity Utilizati	ion 27.9%			IC	CU Level o	of Service

Analysis Period (min) 15

Intersection						
Int Delay, s/veh	0.6					
					0.51	
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		-4†	∱ ₽		۰¥	
Traffic Vol, veh/h	14	270	396	9	9	13
Future Vol, veh/h	14	270	396	9	9	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	· ·	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage	.# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	15	293	430	10	10	14
		-00				

Major/Minor	Major1	Ν	/lajor2	1	Minor2	
Conflicting Flow All	440		-	0	613	220
Stage 1	-	-	-	-	435	-
Stage 2	-	-	-	-	177	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22		-	-	3.52	3.32
Pot Cap-1 Maneuver	r 1116	-	-	-	425	784
Stage 1	-	-	-	-	620	-
Stage 2	-	-	-	-	836	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve		-	-	-	418	784
Mov Cap-2 Maneuve	er -	-	-	-	418	-
Stage 1	-	-	-	-	611	-
Stage 2	-	-	-	-	836	-
Approach	EB		WB		SB	
HCM Control Delay,	s/v 0.51		0		11.5	
HCM LOS					В	
Minor Lane/Major M	vmt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		177	-	-	-	577
HCM Lane V/C Ratio	D	0.014	-	-	-	0.041
HCM Control Delay	(s/veh)	8.3	0.1	-	-	11.5
HCM Lane LOS	,	А	А	-	-	В
HCM 95th %tile Q(ve	ab)	0	-		_	0.1

1: Waterbury Avenue/Hamilton Avenue & East Main Street Lanes, Volumes, Timings

	٦	+	*	4	Ŧ	•	•	†	*	1	Ļ	-∢
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	A		ሻ	A		۲	eî.			र्भ	1
Traffic Volume (vph)	83	611	31	5	224	69	30	12	14	120	16	63
Future Volume (vph)	83	611	31	5	224	69	30	12	14	120	16	63
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	125		0	50		0	0		0	0		75
Storage Lanes	1		0	1		0	1		0	0		1
Taper Length (ft)	75		-	50		-	25		-	25		-
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.993			0.965			0.917				0.850
Flt Protected	0.950			0.950			0.950				0.958	
Satd. Flow (prot)	1787	3518	0	1805	3431	0	1805	1727	0	0	1816	1583
Flt Permitted	0.528		-	0.381			0.520		-	-	0.731	
Satd. Flow (perm)	993	3518	0	724	3431	0	988	1727	0	0	1386	1583
Right Turn on Red			Yes		•.•.	No			Yes	· ·		Yes
Satd. Flow (RTOR)		5				110		16				70
Link Speed (mph)		30			30			30			30	10
Link Distance (ft)		404			244			271			300	
Travel Time (s)		9.2			5.5			6.2			6.8	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	1%	2%	0.50	0%	2%	0.50	0.00	2%	0.50	0.00	2%	2%
Adj. Flow (vph)	92	679	34	6	249	77	33	13	16	133	18	70
Shared Lane Traffic (%)	JZ	019	54	0	249	11	55	15	10	155	10	70
Lane Group Flow (vph)	92	713	0	6	326	0	33	29	0	0	151	70
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Leit	12	Right	Leit	12	Right	Leit	12	Right	Leit	12	Right
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane		10			10			10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		NA	9		NA	9	Perm	NA	9	Perm	NA	-
Turn Type Protected Phases	pm+pt 5	NA 2		pm+pt	NA 6		Perm			Penn	NA 8	Perm
Permitted Phases	2	Z		1	0		1	4		0	0	0
	5	0			6		4	1		8 8	0	8 8
Detector Phase	5	2		1	6		4	4		ð	8	Ö
Switch Phase	F 0	15.0		F 0	15.0		7.0	7.0		7.0	7.0	7.0
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	9.1	24.5		9.0	24.5		24.6	24.6		12.6	12.6	12.6
Total Split (s)	19.0	56.0		19.0	56.0		45.0	45.0		45.0	45.0	45.0
Total Split (%)	15.8%	46.7%		15.8%	46.7%		37.5%	37.5%		37.5%	37.5%	37.5%
Maximum Green (s)	14.9	49.5		15.0	49.5		39.4	39.4		39.4	39.4	39.4
Yellow Time (s)	3.1	4.1		3.0	4.1		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	1.0	2.4		1.0	2.4		2.3	2.3		2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0			0.0	0.0
Total Lost Time (s)	4.1	6.5		4.0	6.5		5.6	5.6			5.6	5.6
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes			• •				
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min		None	None		None	None	None

PM Peak Hour - Langan 140285301 - Stamford Cannabis - Build.syn Langan Page 1

Lanes, Volumes, Timings

Build PM

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0				
Flash Dont Walk (s)		11.0			11.0		12.0	12.0				
Pedestrian Calls (#/hr)		2			1		2	2				
Act Effct Green (s)	92.4	88.4		87.5	80.0		17.7	17.7			17.7	17.7
Actuated g/C Ratio	0.77	0.74		0.73	0.67		0.15	0.15			0.15	0.15
v/c Ratio	0.11	0.27		0.01	0.14		0.22	0.10			0.74	0.23
Control Delay (s/veh)	4.3	6.4		5.6	11.5		46.3	24.8			69.3	11.3
Queue Delay	0.0	0.0		0.0	0.4		0.0	0.0			0.0	0.0
Total Delay (s/veh)	4.3	6.4		5.6	12.0		46.3	24.8			69.3	11.3
LOS	А	Α		А	В		D	С			Е	В
Approach Delay (s/veh)		6.2			11.9			36.3			51.0	
Approach LOS		А			В			D			D	
Queue Length 50th (ft)	14	76		2	64		23	9			114	0
Queue Length 95th (ft)	35	166		4	105		52	34			175	39
Internal Link Dist (ft)		324			164			191			220	
Turn Bay Length (ft)	125			50								75
Base Capacity (vph)	865	2594		694	2287		324	577			455	566
Starvation Cap Reductn	0	0		0	1491		0	0			0	0
Spillback Cap Reductn	0	0		0	0		0	0			0	0
Storage Cap Reductn	0	0		0	0		0	0			0	0
Reduced v/c Ratio	0.11	0.27		0.01	0.41		0.10	0.05			0.33	0.12
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 120	1											
Offset: 38 (32%), Reference	ed to phase	2:EBTL a	ind 6:WB	TL, Start	of Yellow							
Natural Cycle: 60												
Control Type: Actuated-Coc	ordinated											
Maximum v/c Ratio: 0.74												
Intersection Signal Delay (s	/veh): 15.8			In	tersectior	LOS: B						

Intersection Signal Delay (s/veh): 15.8 Intersection Capacity Utilization 49.6%

Analysis Period (min) 15

Intersection LOS: B ICU Level of Service A

Splits and Phases: 1: Waterbury Avenue/Hamilton Avenue & East Main Street

ø1	↓ Ø2 (R)	₩ ø4
19 s	56 s	45 s
J _{ø5}	✓ Ø6 (R)	
19 s	56 s	45 s

Build PM

Lane Group			•	Ŧ			٦		-	*	÷	-
Long Configurations	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	A		ሻ	A			र्भ	1		4	
Traffic Volume (vph)	1	713	74	69	237	1	56	Ö	95	4	0	6
Future Volume (vph)	1	713	74	69	237	1	56	0	95	4	0	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50		0	100		0	0		75	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	50		-	75		-	25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.986			0.999				0.850		0.921	
Flt Protected	0.950			0.950				0.950			0.980	
Satd. Flow (prot)	1805	3527	0	1805	3536	0	0	1805	1599	0	1715	0
Flt Permitted	0.584		Ţ	0.287		Ţ	Ţ	0.750		· ·	0.868	Ū
Satd. Flow (perm)	1110	3527	0	545	3536	0	0	1425	1599	0	1519	0
Right Turn on Red			Yes	0.10		Yes	Ţ		Yes	· ·		Yes
Satd. Flow (RTOR)		14							109		69	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		244			147			233			145	
Travel Time (s)		5.5			3.3			5.3			3.3	
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Heavy Vehicles (%)	0%	1%	0%	0%	2%	0%	0%	0%	1%	0%	0%	0%
Adj. Flow (vph)	1	820	85	79	272	1	64	0	109	5	0	7
Shared Lane Traffic (%)		020	00			•	01	Ŭ	100	Ŭ	Ŭ	·
Lane Group Flow (vph)	1	905	0	79	273	0	0	64	109	0	12	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	-0.1	12			12	. ug. u		0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
	pm+pt	NA	-	pm+pt	NA	-	Perm	NA	Perm	Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases	2			6			4		4	4		
Detector Phase	5	2		1	6		4	4	4	4	4	
Switch Phase												
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	9.0	34.6		9.0	34.6		25.7	25.7	25.7	25.7	25.7	
Total Split (s)	16.0	71.0		16.0	71.0		33.0	33.0	33.0	33.0	33.0	
	13.3%	59.2%		13.3%	59.2%		27.5%	27.5%	27.5%	27.5%	27.5%	
Maximum Green (s)	12.0	64.4		12.0	64.4		27.3	27.3	27.3	27.3	27.3	
Yellow Time (s)	3.0	4.0		3.0	4.0		3.7	3.7	3.7	3.7	3.7	
All-Red Time (s)	1.0	2.6		1.0	2.6		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	4.0	6.6		4.0	6.6			5.7	5.7		5.7	
Lead/Lag	Lead	Lag		Lead	Lag				5.1			
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	

PM Peak Hour - Langan 140285301 - Stamford Cannabis - Build.syn

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)		21.0			21.0		13.0	13.0	13.0	13.0	13.0	
Pedestrian Calls (#/hr)		0			0		0	0	0	0	0	
Act Effct Green (s)	96.4	89.8		99.7	95.7			10.2	10.2		10.2	
Actuated g/C Ratio	0.80	0.75		0.83	0.80			0.09	0.09		0.09	
v/c Ratio	0.00	0.34		0.15	0.09			0.53	0.46		0.06	
Control Delay (s/veh)	2.0	4.5		2.6	3.3			67.7	15.7		0.6	
Queue Delay	0.0	0.2		0.0	0.0			0.0	0.0		0.0	
Total Delay (s/veh)	2.0	4.8		2.6	3.3			67.7	15.7		0.6	
LOS	А	А		А	А			Е	В		А	
Approach Delay (s/veh)		4.8			3.2			35.0			0.6	
Approach LOS		А			А			С			Α	
Queue Length 50th (ft)	0	98		8	17			49	0		0	
Queue Length 95th (ft)	m0	115		19	44			89	49		0	
Internal Link Dist (ft)		164			67			153			65	
Turn Bay Length (ft)	50			100					75			
Base Capacity (vph)	995	2641		580	2820			324	447		398	
Starvation Cap Reductn	0	997		0	0			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.00	0.55		0.14	0.10			0.20	0.24		0.03	
Intersection Summary												
51	Other											
Cycle Length: 120												
Actuated Cycle Length: 120												
Offset: 44 (37%), Reference	d to phase	2:EBTL a	and 6:WB	TL, Start	of Yellow							
Natural Cycle: 70												
Control Type: Actuated-Coo	rdinated											
Maximum v/c Ratio: 0.53												
Intersection Signal Delay (s/					tersectior							
Intersection Capacity Utiliza	tion 48.8%			IC	U Level o	of Service	A					
Analysis Period (min) 15												
m Volume for 95th percen	tile queue i	s metered	l by upstr	eam sign	al.							
Splits and Phases: 2: We	ed Avenue/	1290 F M	lain St Dr	ivewav &	Fast Mai	n Street						
		.200 L IV		ivenuy a								



3: East Main Street Lanes, Volumes, Timings

	٦	-	-	•	1	1
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		-4 †	A		Y	
Traffic Volume (vph)	25	773	284	16	16	24
Future Volume (vph)	25	773	284	16	16	24
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Frt			0.992		0.918	
Flt Protected		0.998			0.981	
Satd. Flow (prot)	0	3532	3511	0	1678	0
Flt Permitted		0.998			0.981	
Satd. Flow (perm)	0	3532	3511	0	1678	0
Link Speed (mph)		30	30		30	
Link Distance (ft)		147	356		118	
Travel Time (s)		3.3	8.1		6.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	27	840	309	17	17	26
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	867	326	0	43	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(ft)		0	0		0	
Link Offset(ft)		0	0		0	
Crosswalk Width(ft)		16	16		16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15			9	15	9
Sign Control		Free	Free		Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized						
Intersection Capacity Utilization	tion 43.8%			IC	CU Level of	of Service

Analysis Period (min) 15

Intersection						
Int Delay, s/veh	0.8					
		FDT	MOT		0.01	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		-4†	∱ ₽		۰¥	
Traffic Vol, veh/h	25	773	284	16	16	24
Future Vol, veh/h	25	773	284	16	16	24
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None		None
Storage Length	-	-	-	-	-	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	27	840	309	17	17	26
		0.0	000			

Major/Minor	Major1	Ν	lajor2	I	Minor2	
Conflicting Flow All	326	0	-	0	792	163
Stage 1	-	-	-	-	317	-
Stage 2	-	-	-	-	474	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	r 1230	-	-	-	326	853
Stage 1	-	-	-	-	711	-
Stage 2	-	-	-	-	592	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve		-	-	-	317	853
Mov Cap-2 Maneuve	er -	-	-	-	317	-
Stage 1	-	-	-	-	690	-
Stage 2	-	-	-	-	592	-
Approach	EB		WB		SB	
HCM Control Delay,	s/v 0.46		0		12.74	
HCM LOS					В	
Minor Lane/Major My	vmt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		113	-	-	-	509
HCM Lane V/C Ratio)	0.022	-	-	-	0.085
HCM Control Delay (-	8	0.2	-	-	12.7
	(s/veh)	Ö	0.2			
HCM Lane LOS	(s/veh)	o A	0.2 A	-	-	B

1: Waterbury Avenue/Hamilton Avenue & East Main Street Lanes, Volumes, Timings

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	∱1 ≽		ኘ	↑ ĵ≽		۲	eî 👘			4	1
Traffic Volume (vph)	76	268	13	3	243	65	10	11	7	99	7	57
Future Volume (vph)	76	268	13	3	243	65	10	11	7	99	7	57
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	125		0	50		0	0		0	0		75
Storage Lanes	1		0	1		0	1		0	0		1
Taper Length (ft)	75			50			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.993			0.968			0.940				0.850
Flt Protected	0.950			0.950			0.950				0.955	
Satd. Flow (prot)	1805	3546	0	1805	3460	0	1805	1744	0	0	1798	1615
Flt Permitted	0.517			0.560			0.622				0.726	
Satd. Flow (perm)	982	3546	0	1064	3460	0	1182	1744	0	0	1367	1615
Right Turn on Red			Yes			No			Yes			Yes
Satd. Flow (RTOR)		6						8				75
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		404			244			271			300	
Travel Time (s)		9.2			5.5			6.2			6.8	
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	0%	1%	3%	0%	1%	1%	0%	4%	0%	1%	0%	0%
Adj. Flow (vph)	85	301	15	3	273	73	11	12	8	111	8	64
Shared Lane Traffic (%)												
Lane Group Flow (vph)	85	316	0	3	346	0	11	20	0	0	119	64
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	Ŭ		12	Ŭ		12	Ŭ		12	Ŭ
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6		-	4		-	8	-
Permitted Phases	2			6			4			8		8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase												-
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	9.1	24.5		9.0	24.5		24.6	24.6		12.6	12.6	12.6
Total Split (s)	19.0	59.0		19.0	59.0		32.0	32.0		32.0	32.0	32.0
Total Split (%)	17.3%	53.6%		17.3%	53.6%		29.1%	29.1%		29.1%	29.1%	29.1%
Maximum Green (s)	14.9	52.5		15.0	52.5		26.4	26.4		26.4	26.4	26.4
Yellow Time (s)	3.1	4.1		3.0	4.1		3.3	3.3		3.3	3.3	3.3
All-Red Time (s)	1.0	2.4		1.0	2.4		2.3	2.3		2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		2.0	0.0	0.0
Total Lost Time (s)	4.1	6.5		4.0	6.5		5.6	5.6			5.6	5.6
Lead/Lag	Lead	Lag		Lead	Lag		0.0	0.0			0.0	0.0
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Recall Mode	None	C-Min		None	C-Min		None	None		None	None	None
	None			NUNC			NONC	None		NONC	NUNC	None

SAT Peak Hour - Langan 140285301 - Stamford Cannabis - Build.syn

Langan Page 1

Lanes, Volumes, Timings

Buil	J S/	١
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Walk Time (s)		7.0			7.0		7.0	7.0				
Flash Dont Walk (s)		11.0			11.0		12.0	12.0				
Pedestrian Calls (#/hr)		2			1		2	2				
Act Effct Green (s)	86.0	82.1		82.3	75.8		14.0	14.0			14.0	14.(
Actuated g/C Ratio	0.78	0.75		0.75	0.69		0.13	0.13			0.13	0.13
v/c Ratio	0.10	0.11		0.00	0.14		0.07	0.08			0.68	0.23
Control Delay (s/veh)	3.6	4.8		4.0	7.7		40.2	29.0			64.9	9.3
Queue Delay	0.0	0.0		0.0	0.3		0.0	0.0			0.0	0.0
Total Delay (s/veh)	3.6	4.8		4.0	8.0		40.2	29.0			64.9	9.3
LOS	Α	А		А	Α		D	С			Е	A
Approach Delay (s/veh)		4.6			8.0			33.0			45.5	
Approach LOS		А			Α			С			D	
Queue Length 50th (ft)	11	25		1	47		7	8			82	(
Queue Length 95th (ft)	28	62		m3	104		22	28			134	29
Internal Link Dist (ft)		324			164			191			220	
Turn Bay Length (ft)	125			50								75
Base Capacity (vph)	882	2649		936	2385		283	424			328	444
Starvation Cap Reductn	0	0		0	1498		0	0			0	(
Spillback Cap Reductn	0	0		0	0		0	0			0	(
Storage Cap Reductn	0	0		0	0		0	0			0	(
Reduced v/c Ratio	0.10	0.12		0.00	0.39		0.04	0.05			0.36	0.14
Intersection Summary												
	Other											
Cycle Length: 110												
Actuated Cycle Length: 110												
Offset: 31 (28%), Reference	ed to phase	2:EBTL a	and 6:WB	TL, Start	of Yellow							
Natural Cycle: 60												
Control Type: Actuated-Coc	ordinated											
Maximum v/c Ratio: 0.69												
Intersection Signal Delay (s					tersectior							
Intersection Capacity Utiliza	tion 42.7%			IC	U Level o	of Service	A					
Analysis Period (min) 15												
m Volume for 95th percen	tile queue i	s metered	l by upstr	eam sign	al.							

Splits and Phases: 1: Waterbury Avenue/Hamilton Avenue & East Main Street



Build SAT

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ľ	∱1 ≽		ኘ	∱ ₽			र्भ	1		\$	
Traffic Volume (vph)	0	257	115	91	242	0	81	0	64	0	0	0
Future Volume (vph)	0	257	115	91	242	0	81	0	64	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50		0	100		0	0		75	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	50			75			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.954							0.850			
Flt Protected				0.950				0.950				
Satd. Flow (prot)	1900	3420	0	1787	3539	0	0	1787	1599	0	1900	0
Flt Permitted				0.480				0.757				
Satd. Flow (perm)	1900	3420	0	903	3539	0	0	1424	1599	0	1900	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		87							75			
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		244			147			233			145	
Travel Time (s)		5.5			3.3			5.3			3.3	
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles (%)	0%	1%	0%	1%	2%	0%	1%	0%	1%	0%	0%	0%
Adj. Flow (vph)	0	292	131	103	275	0	92	0	73	0	0	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	423	0	103	275	0	0	92	73	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12	Ŭ		12	Ŭ		0	Ŭ		0	Ŭ
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	pm+pt	NA		pm+pt	NA		Perm	NA	Perm			
Protected Phases	5	2		1	6			4			4	
Permitted Phases	2			6			4		4	4		
Detector Phase	5	2		1	6		4	4	4	4	4	
Switch Phase												
Minimum Initial (s)	5.0	15.0		5.0	15.0		7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	9.0	34.6		9.0	34.6		25.7	25.7	25.7	25.7	25.7	
Total Split (s)	19.0	58.0		19.0	58.0		33.0	33.0	33.0	33.0	33.0	
Total Split (%)	17.3%	52.7%		17.3%	52.7%		30.0%	30.0%	30.0%	30.0%	30.0%	
Maximum Green (s)	15.0	51.4		15.0	51.4		27.3	27.3	27.3	27.3	27.3	
Yellow Time (s)	3.0	4.0		3.0	4.0		3.7	3.7	3.7	3.7	3.7	
All-Red Time (s)	1.0	2.6		1.0	2.6		2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	4.0	6.6		4.0	6.6			5.7	5.7		5.7	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	2.0	2.0		2.0	2.0		2.0	2.0	2.0	2.0	2.0	
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	

SAT Peak Hour - Langan 140285301 - Stamford Cannabis - Build.syn

Build SAT

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Walk Time (s)		7.0			7.0		7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)		21.0			21.0		13.0	13.0	13.0	13.0	13.0	
Pedestrian Calls (#/hr)		0			0		0	0	0	0	0	
Act Effct Green (s)		76.1		88.6	86.0			11.7	11.7			
Actuated g/C Ratio		0.69		0.81	0.78			0.11	0.11			
v/c Ratio		0.17		0.13	0.09			0.60	0.30			
Control Delay (s/veh)		8.5		3.0	3.2			63.2	13.0			
Queue Delay		0.4		0.0	0.0			0.0	0.0			
Total Delay (s/veh)		8.9		3.0	3.2			63.2	13.0			
LOS		A		А	А			E	В			
Approach Delay (s/veh)		9.0			3.2			41.0				
Approach LOS		Α			А			D				
Queue Length 50th (ft)		76		12	19			63	0			
Queue Length 95th (ft)		54		28	36			109	38			
Internal Link Dist (ft)		164			67			153			65	
Turn Bay Length (ft)				100					75			
Base Capacity (vph)		2392		848	2767			353	453			
Starvation Cap Reductn		1463		0	0			0	0			
Spillback Cap Reductn		0		0	0			0	0			
Storage Cap Reductn		0		0	0			0	0			
Reduced v/c Ratio		0.46		0.12	0.10			0.26	0.16			
Intersection Summary												
51	Other											
Cycle Length: 110												
Actuated Cycle Length: 110												
Offset: 37 (34%), Reference	d to phase 2	EBTL a	nd 6:WB	TL, Start	of Yellow							
Natural Cycle: 70												
Control Type: Actuated-Coo	rdinated											
Maximum v/c Ratio: 0.61												
Intersection Signal Delay (s/					tersectior							
Intersection Capacity Utilizat	tion 37.0%			IC	CU Level o	of Service	A					
Analysis Period (min) 15												

Splits and Phases: 2: Weed Avenue/1290 E Main St Driveway & East Main Street

f Ø1	→ Ø2 (R)	\$
19 s	58 s	33 s
⊅ _{ø5}	♥ Ø6 (R)	
19 s	58 s	

3: East Main Street & Site Driveway Lanes, Volumes, Timings

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Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations			∱ ⊅		Y	
Traffic Volume (vph)	38	262	296	25	26	36
Future Volume (vph)	38	262	296	25	26	36
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	0.95	0.95	0.95	0.95	1.00	1.00
Frt			0.988		0.921	
Flt Protected		0.994			0.980	
Satd. Flow (prot)	0	3518	3497	0	1681	0
Flt Permitted		0.994			0.980	
Satd. Flow (perm)	0	3518	3497	0	1681	0
Link Speed (mph)		30	30		30	
Link Distance (ft)		147	356		118	
Travel Time (s)		3.3	8.1		6.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	41	285	322	27	28	39
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	326	349	0	67	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(ft)		0	0	-	0	-
Link Offset(ft)		0	0		0	
Crosswalk Width(ft)		16	16		16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15			9	15	9
Sign Control		Free	Free		Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized						
Intersection Capacity Utilization	tion 31.0%			IC	CU Level o	of Service

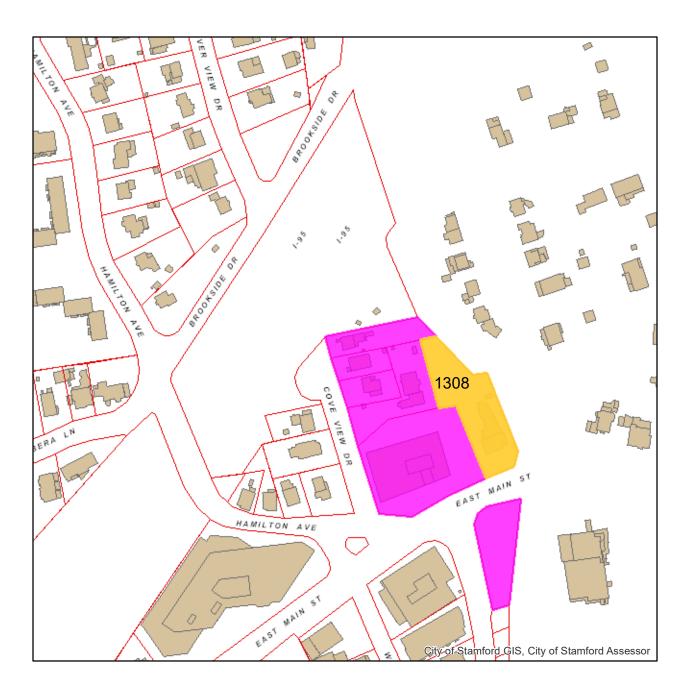
Analysis Period (min) 15

Intersection

Int Delay, s/veh	1.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		-4†	- † 12		Y	
Traffic Vol, veh/h	38	262	296	25	26	36
Future Vol, veh/h	38	262	296	25	26	36
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	41	285	322	27	28	39

Major/Minor	Major1	Ν	/lajor2	I	Minor2	
Conflicting Flow All	349	0	-	0	560	174
Stage 1	-	-	-	-	335	-
Stage 2	-	-	-	-	225	-
Critical Hdwy	4.14	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1207	-	-	-	458	839
Stage 1	-	-	-	-	696	-
Stage 2	-	-	-	-	791	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	441	839
Mov Cap-2 Maneuver		-	-	-	441	-
Stage 1	-	-	-	-	670	-
Stage 2	-	-	-	-	791	-
Approach	EB		WB		SB	
HCM Control Delay, s	s/v 1.23		0		11.65	
HCM LOS					В	
Minor Lane/Major Mvi	mt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		456	-	_	-	609
HCM Lane V/C Ratio		0.034	-	-	-	0.111
HCM Control Delay (s	s/veh)	8.1	0.2	-	-	11.7
HCM Lane LOS		A	A	-	-	В
HCM 95th %tile Q(vel	h)	0.1	-	-	-	0.4
	/					

1308 EAST MAIN STREET 100 FT



Stamford Assessor's Office

Mapping Division





Date:	3/11/2024
Inspector:	G. Skelly

-1041-		1308 EAST MAIN STREET PARCEL # (002-3311)							
AMEO					100' ABUTTERS LIST				
Account Number	Street #	Street Name	Unit	Map-Block-Lot-Unit	Grantee	Mailing Address	City	State	Zip
000-1413	21	COVE VIEW DRIVE		117 308 2	RADOMSKI ROBERT	21 COVE VIEW DRIVE	STAMFORD	СТ	06902-3505
000-9687	25	COVE VIEW DRIVE		117 308 3	JOHNSON JANEEN	25 COVE VIEW DRIVE	STAMFORD	СТ	06902-3505
001-3241	29	COVE VIEW DRIVE		117 308 4&A	ANASTON MARK	29 COVE VIEW DR	STAMFORD	СТ	06902-3505
002-3311	1308	EAST MAIN STREET		118 308 B	1308 EAST MAIN STREET LLC	1308 EAST MAIN STREET	STAMFORD	СТ	06902-3530
002-6057	1	WEED AVENUE		118 136 78	CITY OF STAMFORD	888 WASHINGTON BLVD	STAMFORD	CT	06901-2930
003-6637	11	COVE VIEW DRIVE		117 308 A	KOPROSKI PATRICIA A	222 OCEAN DRIVE EAST	STAMFORD	СТ	06902-8134
003-8365	1290	EAST MAIN STREET		117 308 5	BAY POND HOLDINGS LLC	707 SUMMER ST 4TH FLR	STAMFORD	СТ	06901

AUTHORIZATION

To Whom It May Concern:

Please be advised that Wofsey, Rosen, Kweskin & Kuriansky, LLP is authorized to represent Nautilus Botanicals EJV1 LLC in the enclosed applications for a hybrid medical and adult-use cannabis retail facility to be located at 1308 East Main Street, Stamford, CT, before officials of the City of Stamford, including but not limited to meetings and hearings of the Planning and Zoning Boards. A fax or copy of this Authorization shall be valid as an original.

Nautilus Botanicals EJV1 LLC

LANDS

Luis Vega, Managing Member Dated: March 13, 2024

AUTHORIZATION

To Whom It May Concern:

Please be advised that Wofsey, Rosen, Kweskin & Kuriansky, LLP is authorized to represent 1308 East Main Street LLC in the enclosed applications for a hybrid medical and adult-use cannabis retail facility to be located at 1308 East Main Street, Stamford, CT, before officials of the City of Stamford, including but not limited to meetings and hearings of the Planning and Zoning Boards. A fax or copy of this Authorization shall be valid as an original.

1308 East Main Street LLC

Dated: _ >/18/2024

Joseph Gencarelli, Managing Member

Zoning Data Chart

Project Name - Natuilus Botanicals EJV1 LLC - 1308 East Main Street Application number - 224-16 Address - 1308 East Main Street Zoning District(s) - If multiple Zoning Districts, provide requirement and compliance for each portion of site under the different district - C-N

Zoning Section		Current Required/ Permitted (C-N)	Proposed Permitted (C-N)	Existing Conditions	Proposed Conditions	Notes (Indicate compliance or Zoning Section for Special Permit if applicable)
	Lot Size					
App. B (III)		Min. 5,000 sf.	N/A	21,680 sf.	21,680 sf.	Compliant
	Gross Floor Area	N/A	N/A	4,305 sf.	6,072 sf.	Compliant
	Zoning Floor Area		N1/A			
	Residential	N/A	N/A			- U -
	Commercial	N/A	N/A	4,305 sf.	4,305 sf.	Compliant
	Community Facility	N/A	N/A			
	Industrial	N/A	N/A			
	Total	N/A	N/A			
	F.A.R. (Non-Residential)	0.3	0.3	0.19 (4,305 sf.)	.28 (6,072 sf.)	Compliant
	Non-Residential					
	Commercial					
	Community Facility					
	Industrial					
	Total	N/A	N/A			
	Number of units	N/A	N/A			
	Below Market Rate Units (#, %, and AMI level)					
		N/A	N/A			
	Number of seats/ beds / employees	iv/A	N/A			
	if applicable	N/A	N/A			
	Density (Units/Acre)	174	175			
		N/A	N/A			
	Street Frontage	50 ft.	50 ft.	60 ft.	60 ft.	Compliant
	Building Coverage (Area and %)	30%	30%	15% (3,290 sf.)	15% (3,290 sf.)	Compliant
	Lot coverage (Area and %)					
		N/A	N/A			
	Building Height (Feet)	25 ft.	25 ft.	<25 ft.	<25 ft.	Compliant
	Number of floors (Stories)	2 Stories	2 Stories	2 Stories	2 Stories	Compliant
	Active ground floor (sq.ft. and %) if					
	applicable	N/A	N/A			
	Yards					
	Front yard (Streetline)	Min. 15 ft. Street Line, 40 ft.	Min 15 ft. Street Line, 40 ft.			
		Street Center	Street Center	22.5 ft.	22.5 ft.	Compliant
	Rear yard	Min. 20 ft.	Min. 20 ft.	183 ft.	183 ft.	Compliant
	Side yard					
				0 ft. one side pre-	0 ft. one side pre-	
				existing lawful	existing lawful	Lawful
		Min. One Side 6 ft., Both	Min . One Side 6 ft., Both	nonconforming;	nonconforming;	nonconforming/
		Sides 12 ft.	Sides 12 ft.	>12 ft. both sides	>12 ft. both sides	compliant
	Light & Air	N/A	N/A			

12.C.1 Squa 12.C.1 Usable Open Sidewalk & S 12.K; Tree Manual		Current Required/ Permitted (C-N)	Proposed Permitted (C-N)	Existing Conditions	Proposed Conditions	Notes (Indicate compliance or Zoning Section for Special Permit if applicable)
(Retail Store) (Retai						
12.C.1 Square 12.C.1 Usable Open Sidewalk & Sidewalk & Sidewal	Residential parking					
12.C.1 Squa 12.C.1 Usable Open Sidewalk & Sidewalk	Commercial parking	15	15	~40 painted spaces	16 spaces required* / 21 spaces provided	Compliant
12.C.1 Squa 12.C.1 Usable Open Sidewalk & Sidewalk	Community Facility parking	15	15	spaces	spaces provided	Compliant
12.C.1 Squa Squa 12.C.1 Usable Open Sidewalk & Sidewalk & Sid	Industrial parking					
12.C.1 Squa Squa 12.C.1 Usable Open Sidewalk & Sidewalk & Sid	Public open space parking					
12.C.1 Squa Squa 12.C.1 Usable Open Sidewalk & Sidewalk & Sid	Bike parking	N/A	N/A			
12.C.1 Usable Open 12.K; Tree Manual 12.L EV Charging	of levels of parking garage (if applicable)		N/A			
12.C.1 Usable Open 12.K; Tree Manual 12.L EV Charging	uare footage of parking area	N/A	N/A	>18,000 sf.	>18,000 sf.	Compliant
Usable Oper Usable Oper Sidewalk & 12.K; Tree Manual	Parking setback	IV/A	IV/A	×18,000 SI.	×18,000 SI.	Compliant
Usable Oper Usable Oper Sidewalk & Sidewalk		10 ft. from street line; 5 ft. from lot lines / 0 ft. pre- existing lawful nonconforming from all lot lines; 5 ft. from buildings / 0 ft. lawful nonconforming	10 ft. from street line; 5 ft. from lot lines / 0 ft. pre- existing lawful nonconforming from all lot lines; 5 ft. from buildings / 0 ft. lawful nonconforming	>75 ft. from street line; 0 ft. pre- existing lawful nonconforming all	75 ft. from street line (except 1 handicapped space near street line); 0 ft. pre- existing lawful nonconforming east lot line; > 20	Pre-existing lawful nonconforming / compliant if handicapped space within street line
12.K; Tree Manual		from building	from building	lot lines	ft. west lot line	setback approved
12.K; Tree Manual 12.L EV Charging	Active (If separate)	N/A	N/A			
12.K; Tree Manual 12.L EV Charging						
12.K; Tree Manual 12.L EV Charging	Passive (If separate)					
	x Street mees	Sidewalk 10 ft. from Curb Line, 6 ft. wide, 6 in. high. Tree Requirement per Manual	Sidewalk 10 ft. from Curb Line, 6 ft. wide, 6 in. high. Tree Requirement per Manual		Requesting exemption per 12.K.4(5) for existing sidewalk in good condition	Compliant if exemption
	Existing Trees				Per 12.K.6.c,	
	Proposed	1 sm. tree/20 ft. of frontage; 1 medlg. tree/30 ft. of frontage	1 sm. tree/20 ft. of frontage; 1 medlg. tree/30 ft. of frontage	0	required # of street trees or payment of fee in lieu	Compliant or payment of fee in lieu
	Total					
Signage	ng & Reserved Spaces	N/A	N/A	N/A	N/A	N/A
Signage						
13.F		Sign on Front of Building Cannot exceed 2 sq. ft in size; Additional Ground Sign cannot exceed 16 sq. ft. in area and 10 ft. in height	Sign on Front of Building Cannot exceed 2 sq. ft in size; Additional Ground Sign cannot exceed 16 sq. ft. in area and 10 ft. in height	Existing Sign to be repurposed to comply with Zoning Regulations	Proposed Sign on Building to be 16 in. by 18 in.; Proposed repurposed ground sign to be 4 ft. by 4 ft, and 5 ft. high	Compliant

* Retail SF = 1,191 sf. @ 4/1,000 = 5 spaces Office SF = 2,689 sf. @ 3/1,000 = 9 spaces Storage SF = 2,192 sf. @ 1/2,000 = 2 spaces

Google Maps 1308 E Main St



Image capture: Jul 2023 © 2024 Google



Google Maps Stamford, Connecticut



Image capture: Jul 2023 © 2024 Google







Image capture: Jul 2023 © 2024 Google



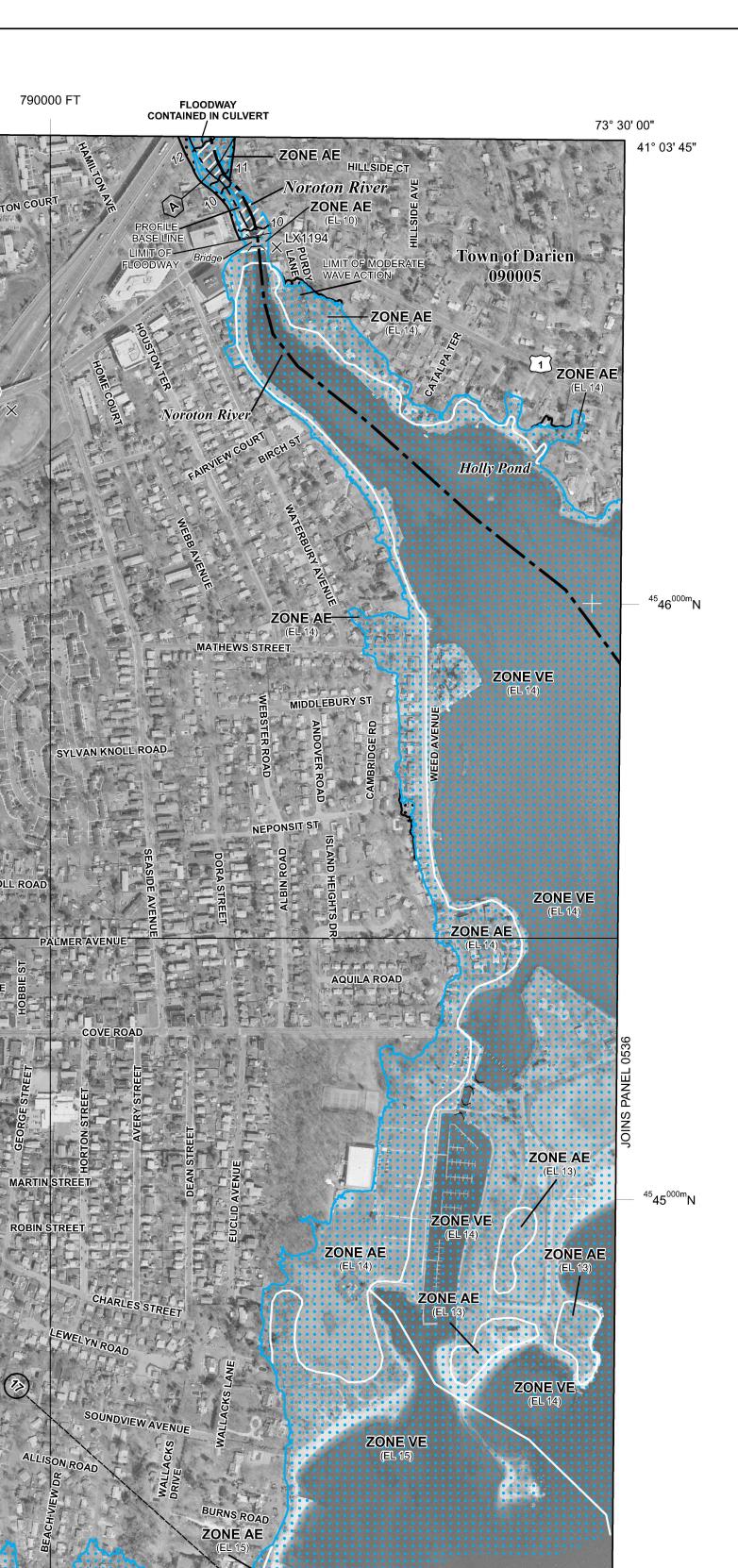












LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood. ΖO

ZONE A	No Base Flood Elevations determined.			
ZONE AE	Base Flood Elevations determined.	d Elevations determined.		
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.			
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.			
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood. Area to be protected from 1% annual chance flood by a Federal flood			
	protection system under construction; no Base Flood Elevations determined.			
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.			
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.			
	FLOODWAY AREAS IN ZONE AE			
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.				
	OTHER FLOOD AREAS			
ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.			
	OTHER AREAS			
ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.			
ZONE D	ZONE D Areas in which flood hazards are undetermined, but possible.			
	COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS			
	OTHERWISE PROTECTED AREAS (OPAs)			
CBRS areas an	d OPAs are normally located within or adjacent to Special Flood Hazard Areas.			
	1% Annual Chance Floodplain Boundary 0.2% Annual Chance Floodplain Boundary Floodway boundary			
	Zone D boundary			
•••••	CBRS and OPA boundary			
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.	,		
	← Limit of Moderate Wave Action			
••	Limit of Moderate Wave Action coincident with Zone Break			
<u>≁</u> 513~	Base Flood Elevation line and value; elevation in feet*			
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*			
*Referenced to the North American Vertical Datum of 1988				
A	Cross section line			
23				
<u> </u>	Culvert			
	Bridge			
45° 02' 08", 9	03° 02' 12" Geographic coordinates referenced to the North American Datum of			

Geographic coordinates referenced to the North American Datum of 45° 02' 08", 93° 02' 12" 83 (NAD 83) Western Hemist 5000-foot grid: Connecticut State Plane Feet Zone 3100000 FT (FIPS Zone 0600), Lambert Conformal Conic projection ⁴⁹89^{000m} N 1000-meter Universal Transverse Mercator grid values, zone 18N Bench mark (see explanation in Notes to Users section of this FIRM DX5510 🗙 panel) MAP REPOSITORIES Refer to Map Repositories list on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP June 18, 2010 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL July 8, 2013 - to change Base Flood Elevations and Special Flood Hazard Areas, to change zone designations, to update the effects of wave action, to update corporate limits, to add roads and road names, to incorporate previously issued Letters of Map Revision and to modify Coastal Barrier Resources System units. For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620. MAP SCALE 1" = 500" 500 1000 250 0 FEET

150

150

0

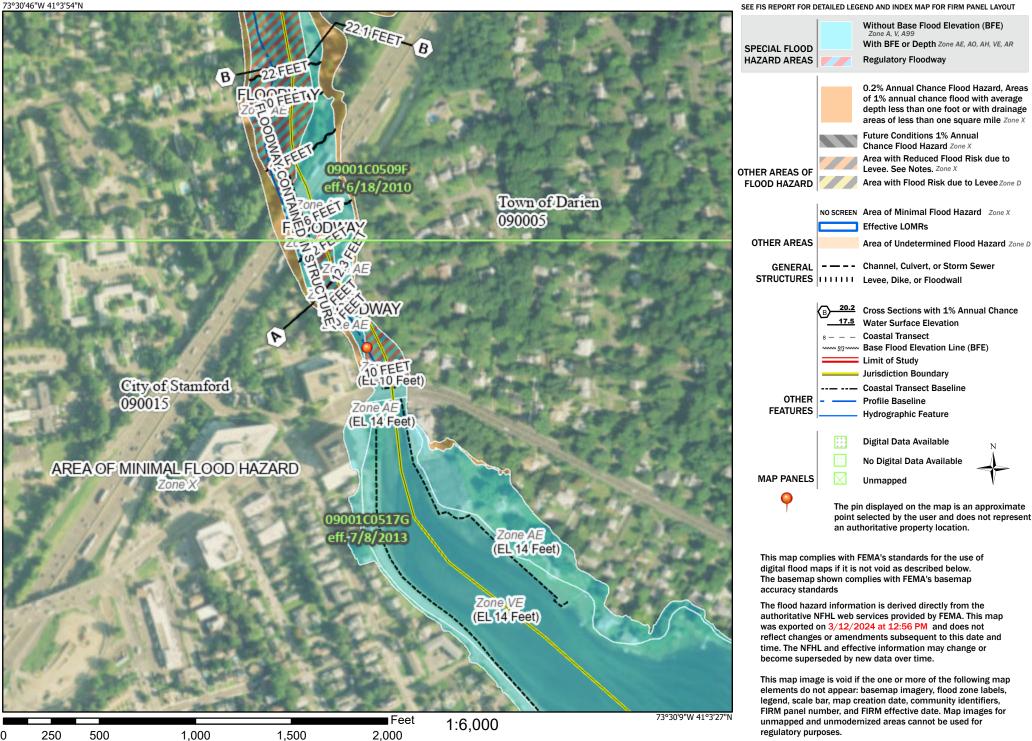
METERS

300

National Flood Hazard Layer FIRMette

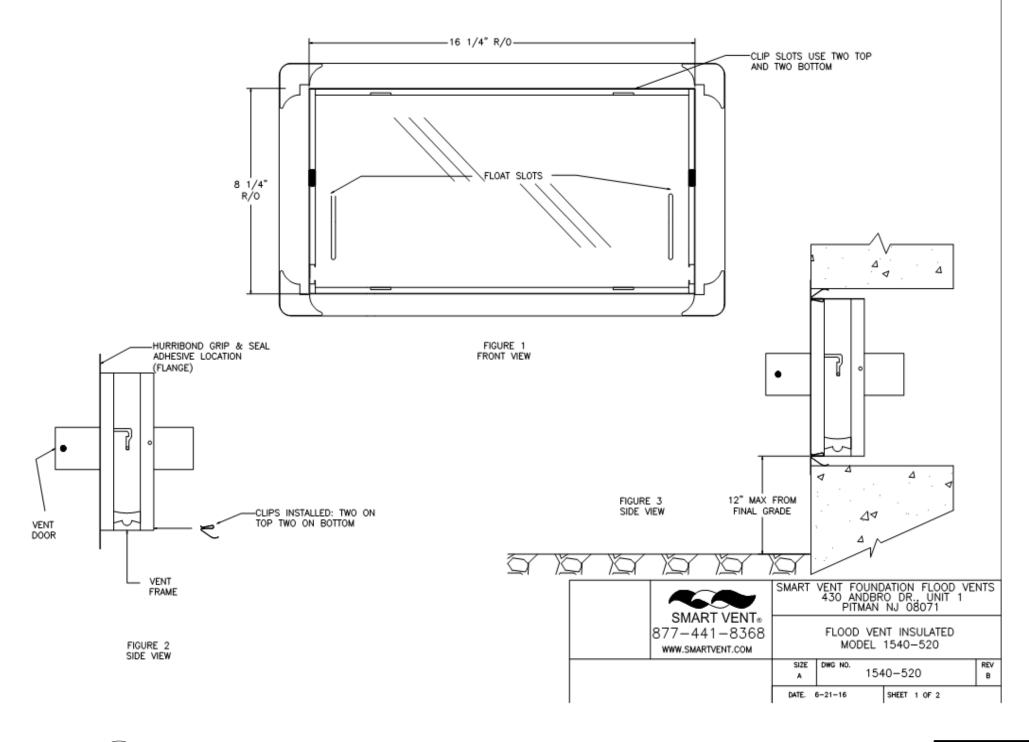


Legend



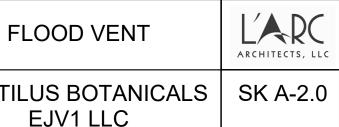
Basemap Imagery Source: USGS National Map 2023

DETAIL DIAGRAM MODEL 1540-520 FLOOD VENT INSULATED





NAUTILUS BOTANICALS EJV1 LLC 1308 EAST MAIN STREET, STAMFORD, CT DATE: 3/20/24



C-N ZONE

C-N	70NF	BUII DING	SETBACK	REQUIREMENTS
0 11		DOILDINO	SEIDAOR	

Front Street Line Setback	15'
Center Line Of Street Setback	40'
Rear Yard Setback	20'
Side Yard Setback 6' w/ Total of	12'
Max. Building Coverage	rea

Zoning Information Is Subject To The Review And Approval By The Appropriate Governing Authority

Property Lines Not Staked By Contractual Agreement Soil Types Not Delineated By Contractual Agreement

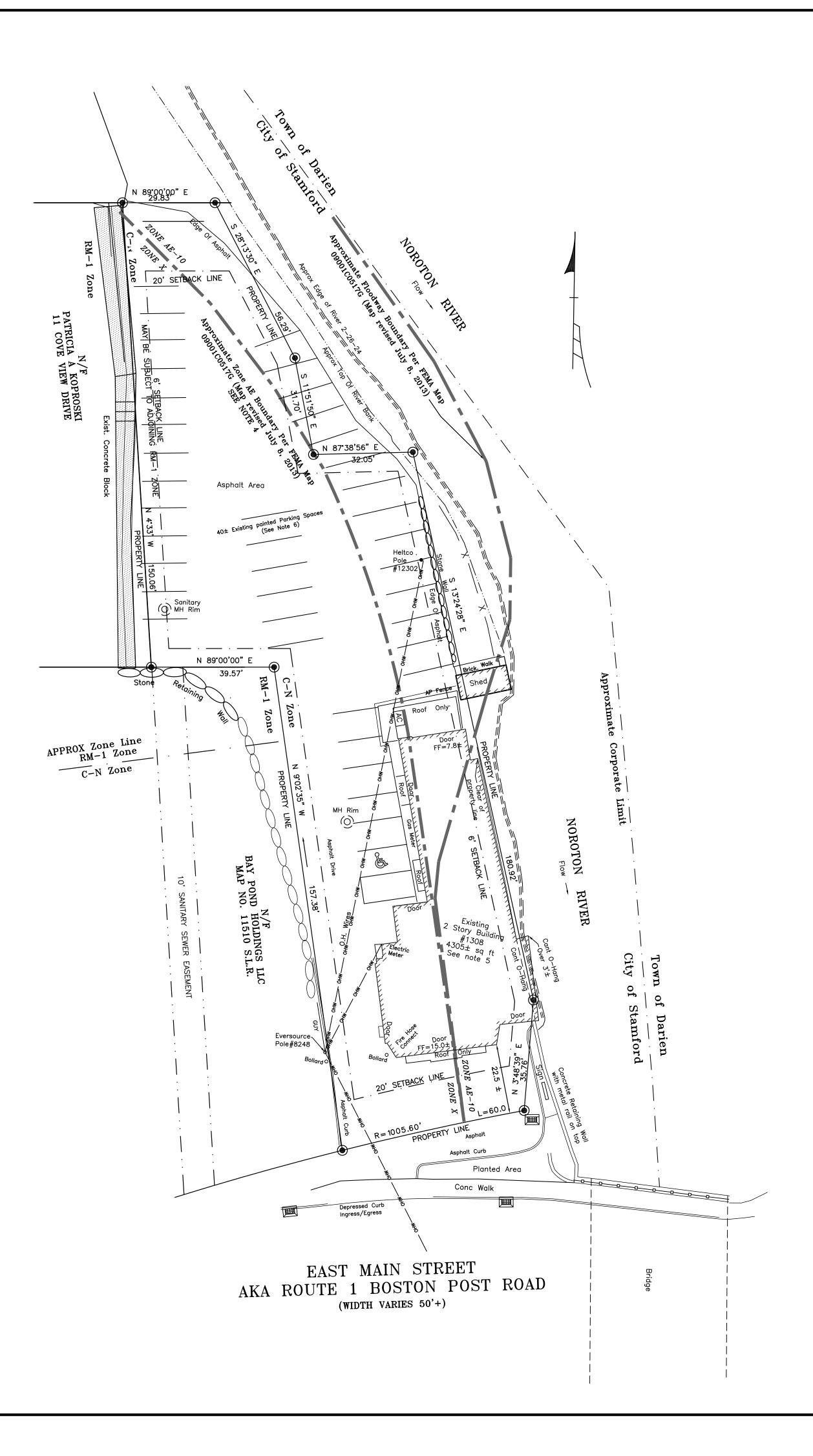
SIZE AND LOCATION OF PROPOSED DEVELOPMENT PROVIDED BY OTHERS. IT IS SUBJECT TO THE REVIEW AND APPROVAL BY THE APPROPRIATE GOVERNING AUTHORITIES

Refer To: Volume 11088 Page 341 S.L.R. PLOT "B" MAP NO. 6218 S.L.R.

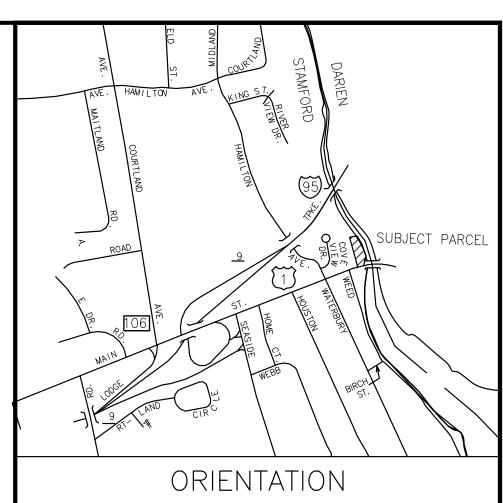
Total Area = 19,785 sq ft (Fig.) Existing Building & Shed Cover 17.7% of Lot Area

Scale 1" = 20'

24308(005) 331-50



		Block N	lo. 308
LEGEND		Existing	
Stone Wall 🤇	\sim	$\sim\sim\sim\sim\sim$	\sim
Concrete Wall 🛛 🗠			//////
Fence —	— x	— Х	
Catch Basin (In Curb)	M	Manhole	\bigcirc
Catch Basin (Flush)		Yard Drain	⊞
Gas Box	GB	Light Pole	\$
Gas Meter	GM	Sign	<u> </u>
Electric Meter	EM	Clean Out	co 0
Water Box	WBO		
Monitoring Well	MWO	Metal Cove	r MC 🗖



PLOT PLAN PREPARED FOR Nautilus Botanicals EJV1 LLC 1308 EAST MAIN STREET STAMFORD, CONNECTICUT

Notes:

1. Underground utility, structure and facility locations depicted and noted hereon have been compiled, in part, from record mapping supplied by the respective utility companies or governmental agencies, from parol testimony and from other sources. These locations must be considered as approximate in nature. Additionally, other such features may exist on the site, the existence of which are unknown to Edward J. Frattaroli, Inc. The size, location and existence of all such features must be field determined and verified by the appropriate

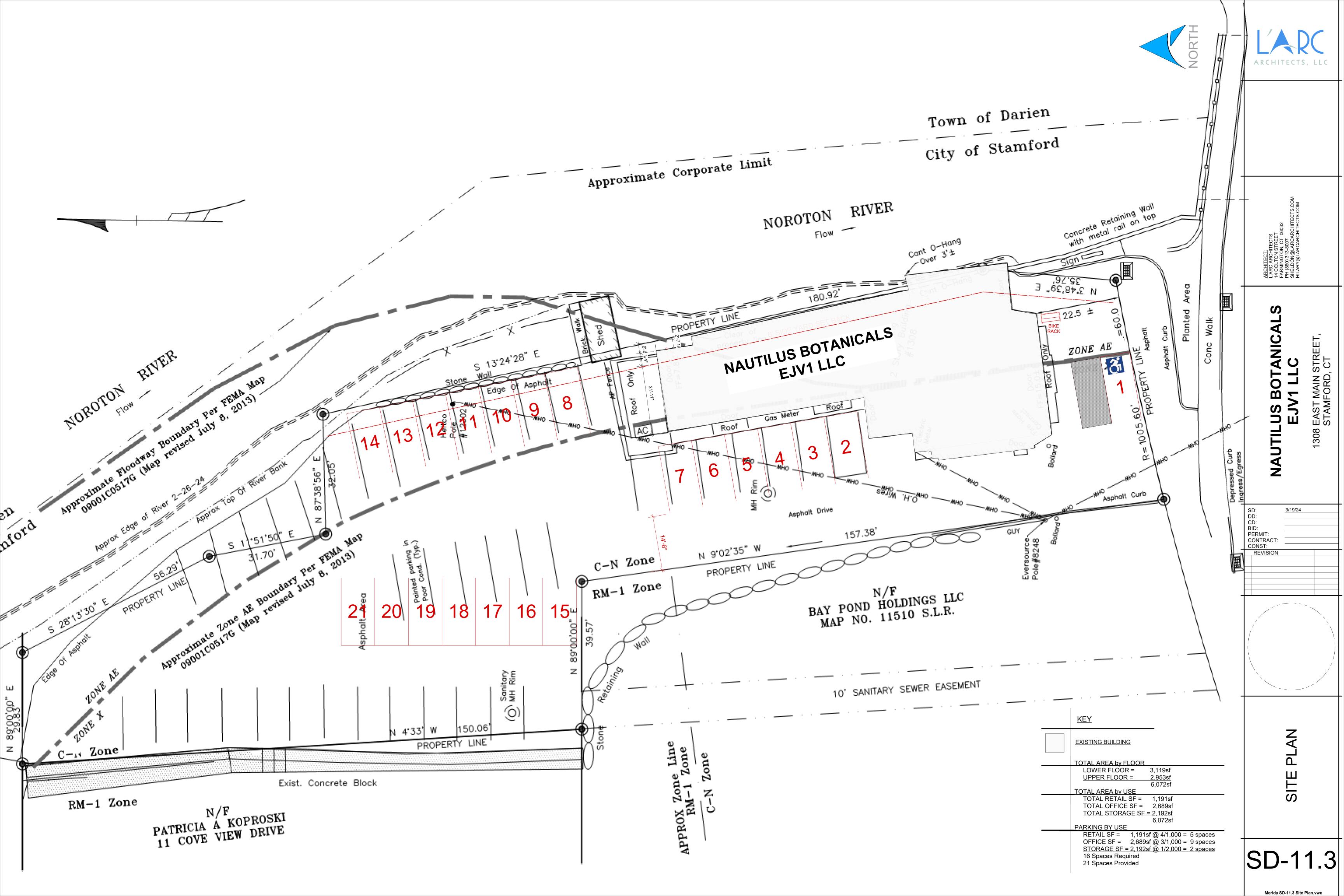
SCALE IN FEET

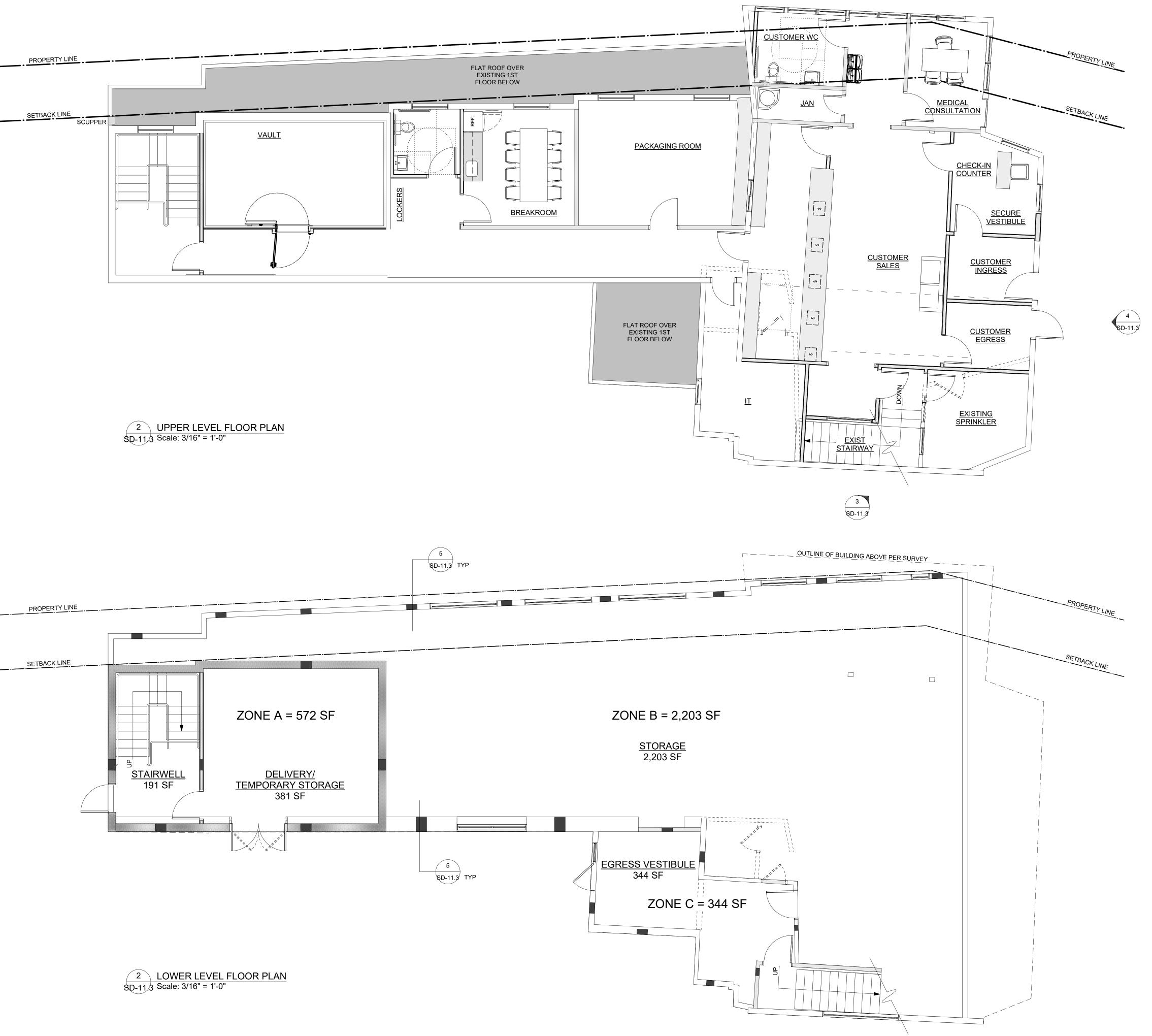
- authorities prior to construction.
 2. The contractor shall notify all public utility companies by calling Call-Before-You-Dig at 1-800-922-4455 at least 72 hours prior to crossing their lines.
 3. Property is Subject to Title verification, utility easements or Private Agreements if any, in addition to those Depicted, Noted and or referenced on this Map. Reference is hereby made to all notes on Recorded Documents hereon referenced that pertain to this parcel.
- 4. Elevations on NAVD-88 Datum based on information Provided by the City of Stamford & the State of Connecticut. For Flood information Refer to FEMA Map 09001C0517G (Map revised July 8, 2013)
- for additional FEMA Flood Information. Approximate 100 Flood Elevation 10' \pm 5. According to the City of Stamford tax assessment the gross floor area of the existing building is 4,305 SQ FT.
- 6. There are 40± Existing painted Parking Spaces many of them delineated faintly as depicted on this survey

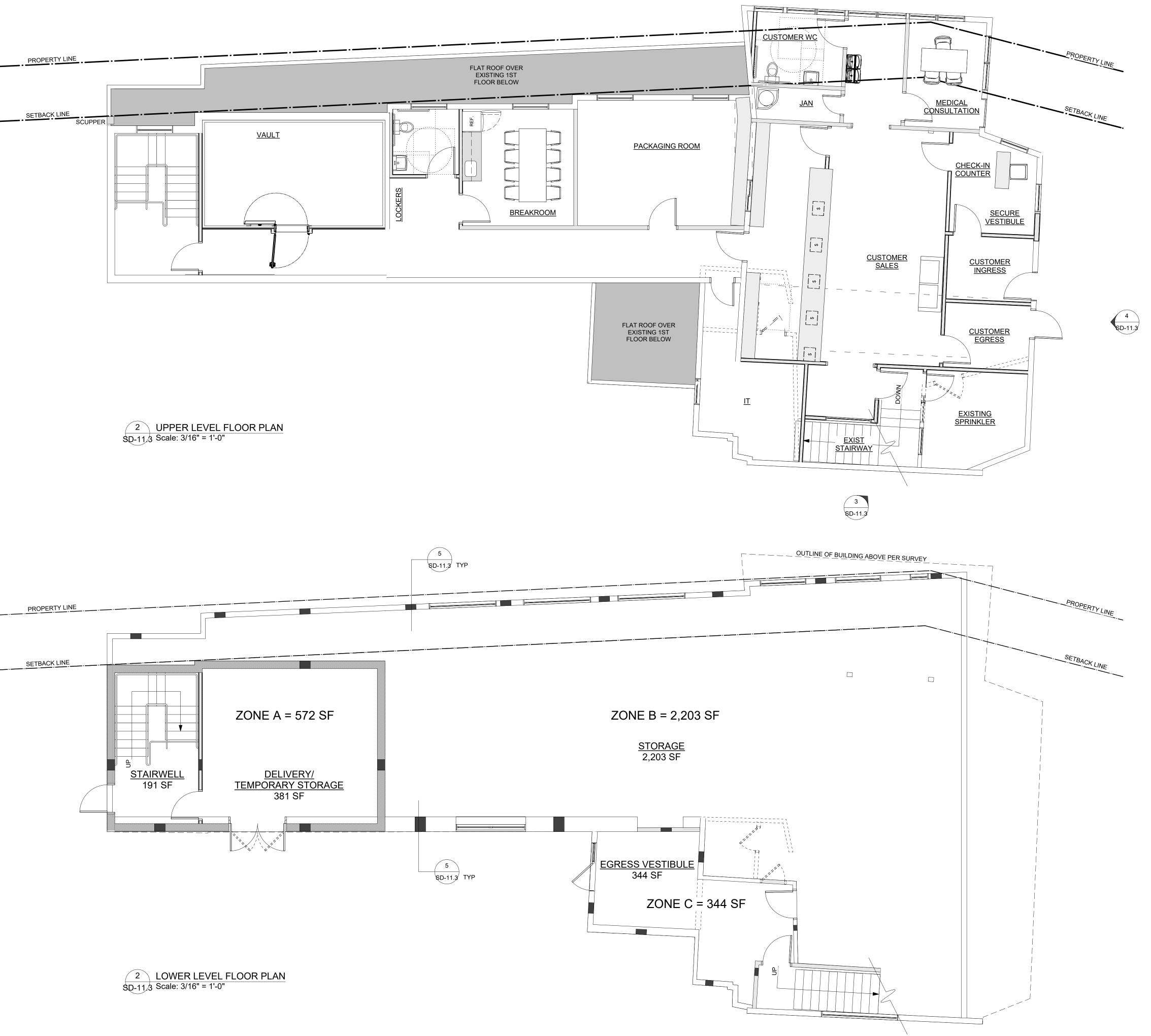
This survey and map has been prepared in accordance with Section 20-300b-1 thru 20-300b-20 of the Regulation of Connecticut State Agencies—"Minimum Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. It is a "ZONING LOCATION SURVEY" based on a "DEPENDENT RESURVEY" conforming to horizontal Accuracy Class "A-2" and intended to be used for Compliance and Noncompliance with Existing Requirements.

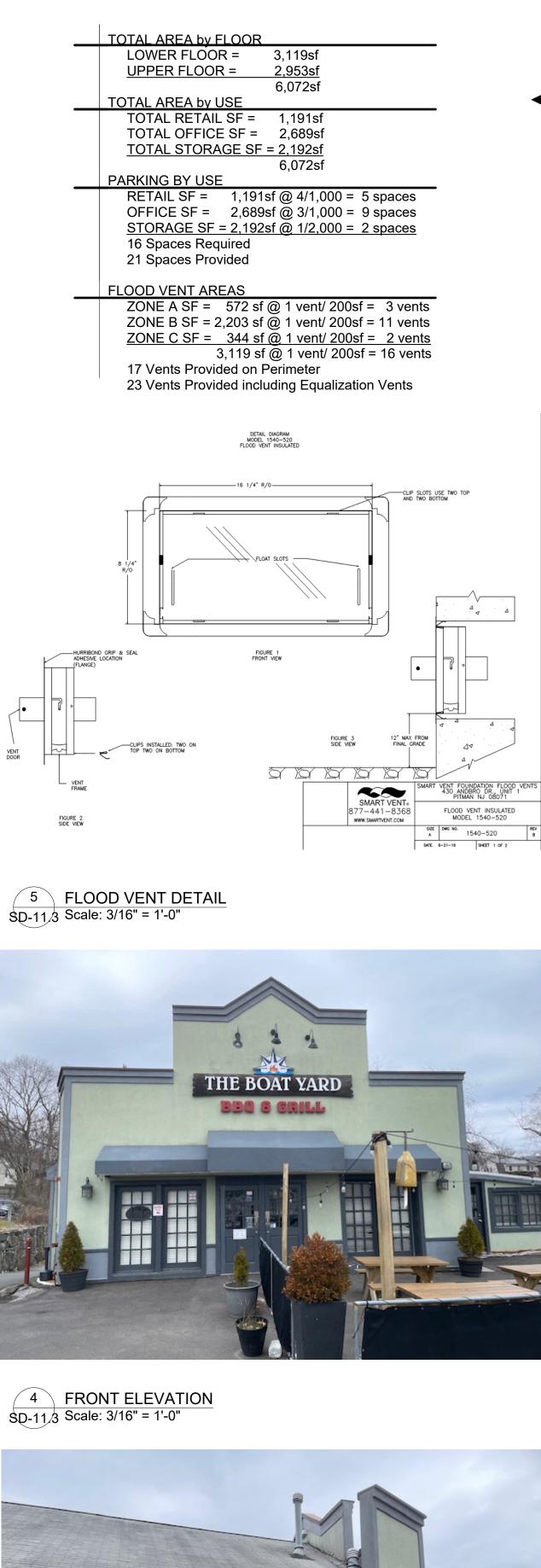
To my knowledge and belief this plan is substantially correct as noted hereon.

REVISED MARCH 14, 2024 (SETBACK & GFA ADDED) This Document and Copies Thereof are Valid only if they bear the signature and embossed seal of the designated licensed professional. Unauthorized alterations render any declaration hereon null and void. FOR: EDWARD J. FRATTAROLI, INC. Land Surveyors •Consultants• Land Planners STAMFORD, CONNECTICUT FEBRUARY 27, 2024





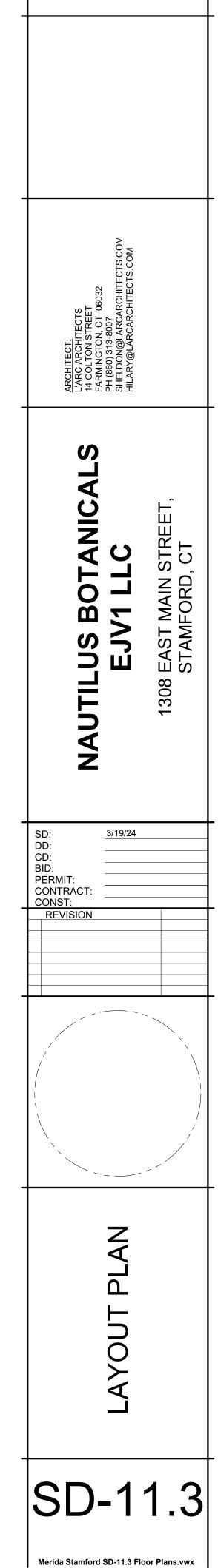


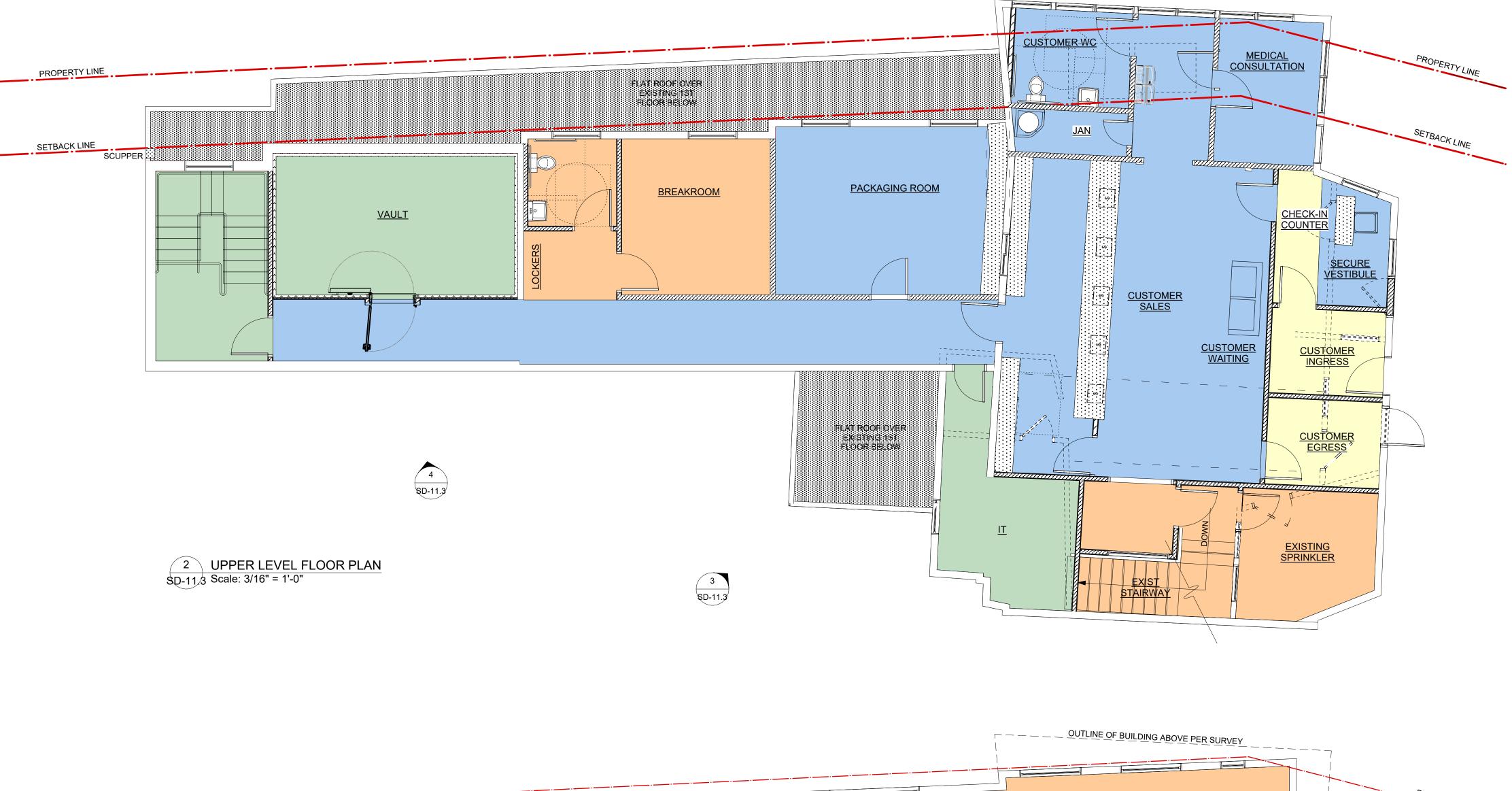


3 FRONT CORNER ELEVATION SD-11.3 Scale: 3/16" = 1'-0"



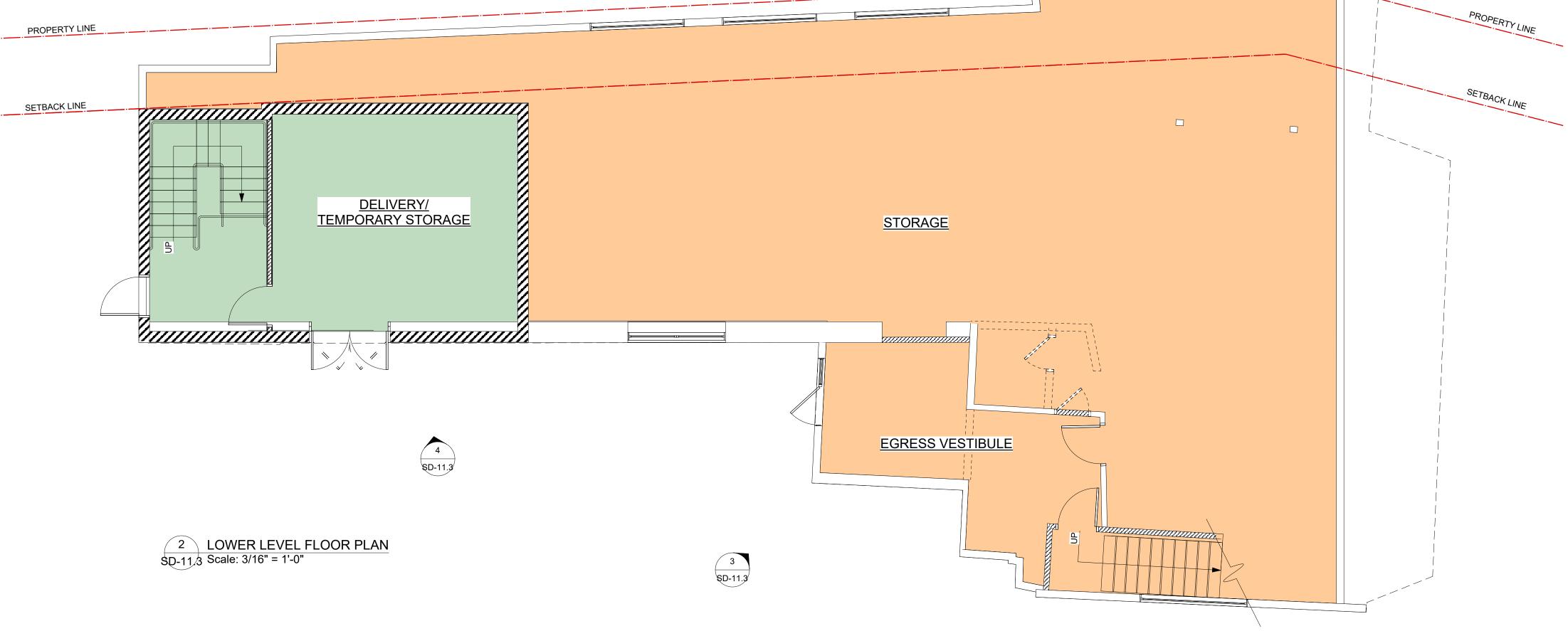


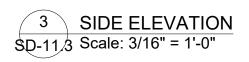












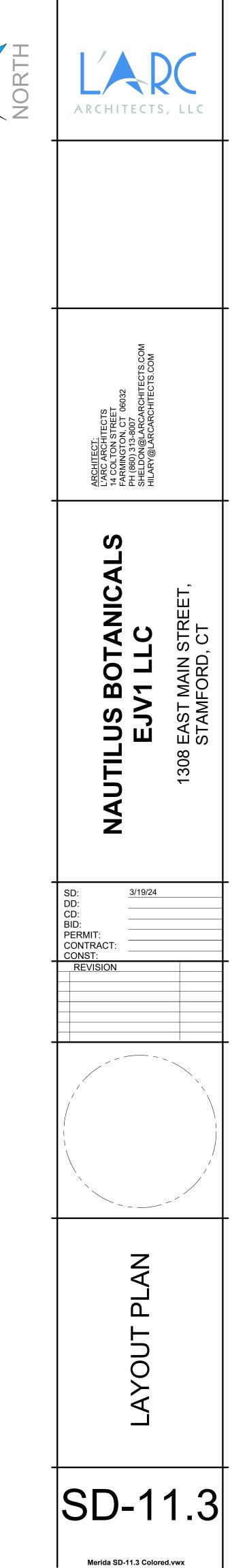


4 REAR ELEVATION SD-11/3 Scale: 3/16" = 1'-0"



	0,07201
	TOTAL AREA by USE
	TOTAL RETAIL SF = 1,191sf
	TOTAL OFFICE SF = 2,689sf
	TOTAL STORAGE SF = $2,192sf$
	6,072sf
	PARKING BY USE
	RETAIL SF = 1,191sf @ 4/1,000 = 5 spaces
	OFFICE SF = 2,689sf @ 3/1,000 = 9 spaces
	<u>STORAGE SF = 2,192sf @ $1/2,000 = 2$ spaces</u>
	16 Spaces Required
	21 Spaces Provided
×.	

 KEY
PUBLIC AREA
<u>OPERATIONS</u>
LIMITED ACCESS
RESTRICTED ACCESS
 TOTAL AREA by FLOOR LOWER FLOOR = $3,119sf$ <u>UPPER FLOOR = $2,953sf$</u> 6,072sf
 TOTAL AREA by USETOTAL RETAIL SF =1,191sfTOTAL OFFICE SF =2,689sfTOTAL STORAGE SF =2,192sf6,072sf6,072sf
 RETAIL SF = 1,191sf @ 4/1,000 = 5 spaces OFFICE SF = 2,689sf @ 3/1,000 = 9 spaces <u>STORAGE SF = 2,192sf @ 1/2,000 = 2 spaces</u> 16 Spaces Required 21 Spaces Provided



COMPANY NAME:	Nautilus Botani	cals EJV1 LLC	
PROJECT NAME:			
ADDRESS:	1308 East Main Str	eet, Stamford CT	
VERTICAL:	Cannabis	MONITORING TYPE: LVM	
ACCOUNT EXEC.:	M.WARNCKE	SOLUTIONS ENGR.: M.M	
	ENDS		



HARDWARE LIST

DESIGN NOTES

