EXPANDED ENVIRONMENTAL ASSESSMENT FORM (EAF)

Venezia Square

Site Plan Application
Hamlet of Wading River, Town of Riverhead, NY

NPV No.06180

Prepared for Submission to:

Riverhead Town Planning Board c/o Town Planning Department 201 Howell Avenue Riverhead, New York 11901

Contact: Jefferson V. Murphree, AICP, Building & Planning Administrator Phone: (631) 727-3200

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December 1, 2022

EXPANDED ENVIRONMENTAL ASSESSMENT FORM

VENEZIA SQUARE

Site Plan Application

NYS Route 25A, opposite Dogwood Drive SCTM: 0600-73-1-1.4 & 1.16 to 1.19

Hamlet of Wading River, Town of Riverhead Suffolk County, New York

Prepared for: Venezia Corp./Joseph Vento

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1.0 INTRODUCTION

This document is an Expanded Environmental Assessment Form (EEAF) that has been prepared in response to the Town Planning Department Staff Report (see **Appendix A**) on a pending site plan application for a proposed commercial development known as "Venezia Square" (hereafter, the "proposed project"). The purpose of this EEAF is to provide the Riverhead Town Planning Board (hereafter, "the Board"), the entity having discretionary jurisdiction over the site plan application, with information necessary to support the Determination of Significance that the Board is required to prepare, under the New York State (NYS) Environmental Quality Review Act (SEQRA).

The site of the proposed project is located on the south side of Sound Avenue (NYS Route 25A), approximately 780 feet west of Wading River Road, in the hamlet of Wading River, Suffolk County, New York (see **Figures 1a and 1b**, located immediately following the text portion of this document). The property is comprised of 6.34 acres of successional field. The site was cleared of natural vegetation in the past for farming and has been undergoing successional revegetation for a number of years. The site is not characteristic of native pine barrens habitat (see **Figure 2**) as the site habitat is characterized as an overgrown successional field.

The subject property is surrounded by vacant, commercial and residential uses. Residential uses are generally located to the south, commercial uses to the west, north and east along Sound Avenue (NYS Route 25A) and farmland abuts the property to the east. As shown in **Figure 3**, abutting the site to the west is a funeral home (in the Town of Brookhaven); land to the north across Sound Avenue (NYS Route 25A) is a mix of vacant and commercial uses (i.e., at the northeast corner of the intersection of Dogwood Dr. is a dentist's office, for which a site plan application was submitted for an addition). Toward the northeast there is vacant wooded land, an automotive garage, and a small shopping center with various uses including another dental office and a Subway sandwich shop); to the east is vacant, naturally-vegetated land and farmed land (on the Mays Farm parcel, for which a site plan has been submitted for two buildings, one to be built initially for office use, including a veterinary office, and a future building for office/retail), and to the south are single-family residences and farmland.

The subject property is zoned Business CR, which matches that of abutting properties and much of the area, particularly along the Sound Avenue (NYS Route 25A) commercial corridor (see **Figure 4**). Additionally, R-80 Residence zoning and development is located immediately south of the subject property and to the north, beyond the Business CR-zoned land along the Sound Avenue (NYS Route 25A) commercial corridor. Zoning in the vicinity also includes sites zoned in the SC-Shopping Center, VC-Village Center, and IN-Institutional districts.

As shown in the **Boundary & Topographic Survey** (in a pouch at the back of this document), the project site consists of five tax lots (as designated in the Suffolk County Tax Map; see **Table 1**):



TABLE 1
TAX LOTS

District	Section	Block	Lot(s)
			1.4
			1.16
0600	73	1	1.17
			1.18
			1.19

This document is organized to address each of issues specified in the Town Staff Report. This format provides the Town Planning Board with information that is responsive to staff comments pertaining to potential environmental impacts of the proposed action and facilitates staff and Town review and use of this EEAF as a decision-making document.

This EEAF ensures that the Board has sufficient information to take a "hard look" at the proposed project prior to issuing its Determination of Significance pursuant to Title 6, New York Code of Rules & Regulations (6 NYCRR), Part 617, which administers the SEQRA review process.



2.0 DESCRIPTION OF THE PROPOSED PROJECT

As depicted on the **Site Plan** (in a pouch at the back of this document), the proposed project conforms to all of the bulk and setback requirements of the Town Code, as well as to the requirements of Central Pine Barrens (CPB) Comprehensive Land Use Plan (CLUP). As a result, no variances, special exceptions or special permits are needed to implement the project and pending Town review and confirmation of consistency with the project with the Town's Pine Barrens Overlay District [Article XLI; Chapter 301; §301-197 A. (1) through (16)], no separate review by the Central Pine Barrens Joint Planning & Policy Commission is needed (CPBJPPC).

The proposed commercial development will include five (5) one-story buildings, with sizes varying from 4,000 square feet (SF) to 10,000 SF. Specifically, there will be a 6,000 SF building for two "take-out" restaurants (1,500 SF/16 seats each) and a 3,000 SF/84 seat "sit-down" restaurant; a 4,000 SF bank (with drive-thru service; and three 10,000 SF retail buildings. Thus, the total floor area of the project is 40,000 SF. With an additional 855 SF in the project's outdoor sign and other small structures, the total building coverage of the site is 40,855 SF.

The site has been designed so that the developed area will occupy the northern and central portions of the site, so that the southerly and easterly portions, abutting vacant lands, would remain undisturbed and naturally-vegetated. Such an arrangement will maximize the contiguity of natural vegetation, for aesthetic and habitat benefits.

The five structures are arranged so the bank will be located in the center of the site's developed area, with the other four structures arrayed around it; these latter four buildings will be oriented so that their front facades will face inward, toward the bank. In this way, the focus of the overall development would stress internal aesthetics and walkability with a sense of place through inclusion of a sitting area with a water feature planned for the area adjacent to the bank but open to all site patrons. Sidewalks, crosswalks and pedestrian ramps along all buildings fronts will enable safe movement within the site; these will also connect to sidewalks to be installed along the south side of Sound Avenue (NYS Route 25A).

Approximately 0.94 acres of the site will be covered with buildings, another 2.32 acres will be paved surfaces, and new landscaping will cover 0.84 acres; the remaining 2.24 acres of the site will be retained naturally-vegetated land.

One combined vehicle access into and exit from the site is planned, off Sound Avenue (NYS Route 25A) opposite Dogwood Drive, which will have been created as a four-way intersection controlled by a new traffic signal. The eastern portion of the site will be provided with a right turn/exit only, configured to direct exiting vehicles in the eastbound direction on Sound Avenue (NYS Route 25A). This exit will be controlled by a Stop sign. At the developed area's eastern boundary, a parking area aisle is designed so as to be available for conversion to an internal access to the undeveloped land abutting to the east, should this land be developed in the future. This is consistent with Town of Riverhead planning goals to reduce curb cuts on Sound Avenue (NYS Route 25A), provide



interconnected parking and ultimately create a through road from the subject site east to Wading River Road.

A minimum of 186 parking spaces are required by Town Code for the uses and yields proposed; the project will provide 186 parking spaces, in conformance with this requirement. Storm water drainage features will be provided to capture, store and recharge runoff generated by impervious surfaces.

The property is located in Groundwater Management Zone III, wherein the maximum allowed sanitary wastewater generation is 300 gallons per day (gpd)/acre, if an on-site septic system is used. For the 6.34-acre subject site, this means that, if septic systems are desired, the total wastewater generation of the project may not exceed 1,902 gpd. Based on the uses and yields proposed, and the applicable standards of the Suffolk County Sanitary Code (SCSC) Article 6 for wastewater system design, the proposed project will generate a total of 1,320 gallons of sanitary wastewater daily (gpd; see **Table 2**). Thus, septic systems would be allowed under SCSC Article 6, and will be used; each of the five proposed buildings will be provided with a separate septic system. Note that the above 1,320 gpd represents only one part of the overall domestic water use value of the project; according to SCSC Article 6, the total domestic flow of the project (i.e., the total amount of water used in the structures for combined sanitary and other purposes), will be 2,040 gpd. This value represents the amount of water conveyed to the project's treatment systems.

TABLE 2
ANTICIPATED WATER USE/WASTEWATER GENERATION
Proposed Project

Project Component	Yield	Sanitary Flow (per SCSC Article 6)	Sanitary Flow (gpd)	Total Flow (per SCSC Article 6)	Total Flow (gpd)
Take Out Restaurant	1,500 SF/16 seats	0.03 gpd/SF	45	0.15 gpd/SF	225
Take out Restaurant	1,500 SF/16 seats	0.03 gpd/SF	45	0.15 gpd/SF	225
Restaurant	3,000 SF/84 seats	0.03 gpd/SF	90	0.15 gpd/SF	450
Bank	4,000 SF	0.06 gpd/SF	240	0.06 gpd/SF	240
Retail	10,000 SF	0.03 gpd/SF	300	0.03 gpd/SF	300
Retail	10,000 SF	0.03 gpd/SF	300	0.03 gpd/SF	300
Retail	10,000 SF	0.03 gpd/SF	300	0.03 gpd/SF	300
Totals			1,320		2,040
Landscape Irrigation	0.84 acres (max.)				0/2,433*
TOTALS			1,320		2,040/4,473

^{*} Indicates range in irrigation demand over the course of a calendar year; averages 2,433 gpd during the 5-month irrigation season, and 0 gpd outside of irrigation season.

Finally, assuming an irrigation rate of 16 inches over the irrigation season, an irrigation season of five months duration (mid-April to mid-September assumed), and 0.84 acres of landscaped area, it



is calculated that irrigation demand will vary from 0 gpd outside of the irrigation season to 2,433 gpd during the 150-day irrigation season.

Based on the above discussion of water use, the project's total demand on the Riverhead Water District will average 4,473 gpd from mid-April to mid-September, and decrease to an average of 2,040 gpd from mid-September to mid-April.

A natural buffer will be located between the backs of the two southern retail structures and the southern property line. This buffer will vary in depth from 104 feet to 243 feet. Along the western side of the site, a 36-foot deep buffer of natural vegetation will be retained between the property line and the internal access roadway. For the eastern side, a buffer of natural vegetation varying between 30 feet and 121 feet will be retained. Landscaping will be installed along the site's northern boundary abutting Sound Avenue (NYS Route 25A); this area will feature a landscaped buffer between 38 feet and 55 feet in depth.



3.0 ANALYSIS OF POTENTIAL IMPACTS

3.1 Critical Environmental Area: SGPA

A "Special Groundwater Protection Area" (SGPA) is defined in the NYS Environmental Conservation Law (ECL) as:

A recharge watershed area within a designated sole source aquifer area contained within counties having a population of one million or more which is particularly important for the maintenance of large volumes of high quality groundwater for long periods of time. For the purposes of this article, each "special groundwater protection area" shall be classified as a critical area of environmental concern as used under article eight of this chapter (Section 55-0107 ECL Article 55).

In response to this legislation, the SGPA Plan was prepared by the Long Island Regional Planning Board in 1992 to study land use and groundwater quality within the several SGPAs designated on Long Island. The subject site was designated within the Central Suffolk SGPA (North) sector, and is recommended for Commercial Use (see **Figure 5**). The SGPA Plan makes general recommendations that are applicable to all of the identified SGPA, as well as specific recommendations for development within each SGPA. Where restrictions of the CPB CLUP, as promulgated under the Long Island Pine Barrens Protection Act, duplicate those of the SGPA Plan, the former supersedes those of the latter. The plan is useful for historical context but it is recognized that groundwater protection can be achieved through development that conforms to current sanitary and stormwater management standards as well as recommendations of the SGPA Plan.

The following is that portion of the "Opportunities" segment of the SGPA Plan that discusses issues of concern in the Central Suffolk SGPA (North) sector pertaining to the subject site.

The northeast sector of the Central Suffolk SGPA contains a continuous belt of farmland that extends from Wading River on the west to the Riverhead-Southold town boundary on the east, and from Route 25 on the south to Sound Avenue on the north. With selective acquisitions that belt could be linked with the farm areas in western Southold. Over 3,000 acres of productive agricultural land have been protected from development, primarily through the Suffolk County Farmland Development Rights Program. There is an opportunity to expand the Farm Preserve through continued purchase of development rights, albeit on a reduced scale, and through the transfer of development rights to sites outside the SGPA. The use of mandatory clustering with the reservation of at least half of the property for agriculture or open space could allow further expansion of the protected area at minimal cost. Such clustering could preserve half of the farmland while allowing development that meets Health Department regulations to occur on the remainder.

It would be most desirable to transfer the development rights of properties that are surrounded by protected farmland to areas north of Sound Avenue or around the hamlet of



Riverhead. Admittedly, farming activities have been a source of groundwater contamination, however, there is an opportunity to employ modern best management practices that reduce the reliance on agricultural chemicals and lessen the threat to groundwater.

The acquisition of selected woodland and other non-farm parcels could facilitate watershed preservation and wellhead protection. Purchase of the unused portion of Camp Wauwepex in Wading River could protect pine barrens land and provide a well site that would be preferable to the proposed Wading River Road site in the middle of the farmland. A few smaller acquisitions in the Town of Riverhead could enhance the already partially protected Peconic River corridor.

Most of the commercial development in Riverhead is outside or at the periphery of the SGPA, and could be confined to present locations. There are some commercial services located at the end of the Expressway, and the edge of the Wading River business district is in the SGPA. There are also small business areas in Jamesport and Aquebogue, and a few neighborhood or highway commercial establishments on Sound Avenue, Middle Road and Route 25. In western Southold, there is extensive commercial development south of the railroad tracks in Mattituck and a small cluster of commercial development south of the railroad tracks in Mattituck and a small cluster of commercial buildings on Aldrich Land and Route 25 in Laurel. The siting of new business development at locations outside the SGPA or within the boundaries of existing commercial areas within the SGPA could help to maintain the integrity of the agricultural and open space lands that protect the groundwater and surface waters in this sector.

Specific SGPA Plan recommendations for the Central Suffolk SGPA (North) sector include the following:

- Suffolk County, together with the Towns of Riverhead and Southold should expand the existing agricultural preserve. The County should continue to acquire development rights under its Farmland Preservation Program.
- The Town of Riverhead should amend its zoning to require a five-acre minimum lot size
 for all farmland located within the SGPA. At the same time, it should provide for the
 transfer of development rights to non-farm sites outside the SGPA at one dwelling unit
 per two acres.
- The Town of Riverhead should require clustering of development on those parcels where TDR [transfer of development rights] is not feasible. The County and the Town of Southold should use a combination of selective acquisition, TDR and mandatory clustering to assemble and protect a 200+ acre watershed preserve in the vicinity of Laurel Lake. Such a preserve would comprise both woodlands and portions of farm parcels.
- The Towns of Riverhead and Southold should review their zoning ordinances and amend them as necessary to preclude the expansion of commercial activities beyond the limits of those SGPA areas where such activities currently exist.



The proposed project will conform to the Commercial Use recommended for the subject property in the SGPA Plan.

The project will eliminate the potential for a renewal of farming on the project site. However, such activity ceased on the site a number of years ago, which would presumably have reflected the farmer's response to conditions no longer conducive to farming on this small parcel of land.

The elimination of farming on the subject site would also end the use of any agricultural chemicals (e.g., pesticides, herbicides, fungicides) on the site, which incrementally reduce impacts to groundwater quality in the area. The proposed 0.84 acres of landscaped area is small, conforms to the CPB CLUP and Town Code §301-197 A.(9), and will require minimal maintenance.

The subject site is located along the northern boundary of the SGPA, where analysis indicates that the water recharged on the subject site will flow northward, away from the SGPA.

The site is located at the periphery of the Wading River business district [within the Sound Avenue (NYS Route 25A) commercial corridor], and is on land zoned for commercial use. This would suggest that the Town Board has determined that, assuming that the requirements of the Town Zoning Code, CLUP and SCSC Article 6 are met, the location would be appropriate for commercial use.

3.2 Critical Environmental Area: Central Pine Barrens

The Long Island Pine Barrens Act of 1993 divided the Long Island Pine Barrens into two geographic areas, the entire CPB of about 100,000 acres, and within this larger area is the smaller 52,500-acre Core Preservation Area (CPA). Areas not contained within the CPA are referred to as the Compatible Growth Area (CGA) and comprise approximately 47,500 aces. As shown in **Figure 6**, the subject site is in the CGA. As a result, under NYS ECL 57-0123(2)(a) and Section 4.5.4 of the CPB CLUP, the project is subject to conformance with the CPB CLUP. The Town of Riverhead adopted the Town Pine Barrens Overlay District [Article XLI; Chapter 301; §301-197 A. (1) through (16)], which establishes standards or development in the CGA of the CPB. If the project is not a Development of Regional Significance, and the applicable Pine Barrens standards are adhered to, then no separate review by the CPBJPPC is needed. The applicant has reviewed the applicable Town standards in the Pine Barrens Overlay District and it is believed that the project is consistent with all applicable standards (see **Appendix B-1**).

In addition, **Appendix B-2** presents each of standards and guidelines of the CPB CLUP for development within the CGA, with accompanying descriptions/discussions of whether and how the proposed project conforms to each. The table demonstrates that the proposed project is in conformance with and consistent with the Standards and Guidelines of the CPB CLUP as well as the Town Pine Barrens Overlay District.



Finally, the updated Traffic Impact Study (TIS) for the project (see **Appendix E**) determined that the proposed project, with mitigation at the intersection of NYS Route 25A and Wading River-Manor Road, would not result insignificant adverse impacts to traffic conditions:

The capacity analysis results demonstrate that the addition of Venezia Square will impact the NYS Route 25A and Wading River Manor Road intersection LOS at the Midday and Saturday peak periods, lowering each from a C to a D and an E to an F, respectively. However, if the signal timing is changed, the LOS at these peak periods can be a C and a D, respectively. To further help improve traffic conditions and the LOS, we recommend installing a right-turn lane at the eastbound approach. Overall, the addition of Venezia Square will not significantly impact traffic conditions.

The significance of this potential impact is that, under CLUP Section 4.5.5.1, "A development project resulting in a traffic impact which would reduce service by two (2) levels below existing conditions or to a level of service of D or below" would constitute a Development of Regional Significance (DRS), requiring a Hardship application and review by the CPBJPPC. In response, the Applicant had a revised analysis prepared to establish whether the intersection in question would still experience the same reduction in LOS if the mitigation described in the TIS were not implemented. This revised analysis (see **Appendix F**) states:

Schneider Engineering, PLLC has prepared this report to serve as an updated version of the Traffic Impact Study we had submitted in December 2018 for the Venezia Square project. The location of this project is on NY-25A across from Dog Wood Drive, Wading River, New York.

In a letter from the Town of Riverhead Planning Department dated February 15, 2022 to Nelson, Pope & Voorhis, LLC, concern was expressed regarding the Level-of-Service (LOS) impact at the intersection of NYS 25A and Wading River Manor Road. The 2018 existing conditions capacity analysis identified the overall LOS as operating at LOS C during the peak midday, PM and Saturday conditions. The future build scenario with mitigation measures identified the overall LOS reducing from a C to a D during the PM peak hour and Saturday peak hour. The Town's concern is that the proposed development would result in a traffic impact which would reduce service to a level D or below.

In this report we prepared [a new] LOS analysis at the intersection with new turning movement counts (2022) and [new] background traffic growth from other proposed developments in the immediate vicinity. Our finding is that under a conservative analysis, the future no build scenario will have an overall LOS C during the peak midday and PM conditions and LOS D during the Saturday condition. In the build scenario service levels will not be reduced from the no build scenario. Therefore, the proposed development will not result in a traffic impact that reduces service levels.



The above-described revised traffic impact analysis indicates that the proposed project does not qualify as a DRS under the CLUP, so that no Hardship submission to the CPBJPPC is necessary or warranted.

3.3 Proximity to Cultural Areas

As shown in **Figure 9**, the site lies within a NYS-designated archaeologically sensitive area, which suggests that cultural resources (e.g., surface or subsurface pre-historic era or historic era cultural remains) may be present. As a result, the applicant has elected to complete a full Phase I Archaeological Investigation of the site and vicinity, to determine the presence and location of such resources and, if found, to estimate the potential for impacts. That document is presented herein in **Appendix C-1**. The following has been taken from the Phase I Archaeological Investigation.

INTRODUCTION

Between July 7 and 20, 2016, TRACKER Archaeology, Inc. conducted a Phase IA documentary study and Phase IB archaeological testing and reconnaissance at the proposed Venezia Square subdivision, in Wading River, Township of Riverhead, Suffolk County, New York.

The purpose of the documentary study was to determine the prehistoric and historic potential of the project area for the recovery of archaeological remains. This was accomplished by a review of the original and current environmental data, archaeological site files, other archival literature, maps, and documents.

A prehistoric and historic site file search was conducted utilizing the resources of the New York State Historic Preservation Office [NYSHPO] in Waterford, New York. Various historic and archaeology web sites were visited to review any pertinent site information.

The purpose of the Phase IB field survey was to determine the presence or absence of archaeological sites on the property. This was accomplished through subsurface testing and ground surface reconnaissance.

The project area (APE [area of potential effect]) consists of the about 4.5 acres from the approximate 6-acre property. The property is located on the south side of Port Jefferson-Riverhead Road (NYS Route 25A, Sound Avenue) at the intersection of Dogwood Drive. It is bound to the north by Port Jefferson-Riverhead Road (NYS Route 25A, Sound Avenue) and to the remaining sides by other private properties.

CONCLUSIONS AND RECOMMENDATIONS

Based upon topographic characteristics and distance to known prehistoric sites and Indian trails, the property was assessed as having a higher than average potential for encountering prehistoric sites. Based upon topographic characteristics and distance to historic map



documented structures, reported wigwams, and Indian trails, the property was assessed as having a moderate potential for encountering historic aboriginal sites.

During the course of the Phase IB archaeological field survey, 79 ST [shovel test] holes were excavated. No prehistoric or historic sites were encountered. No historic sites were encountered. No further work is recommended.

The Phase I Archaeological Investigation concludes that there are no cultural (i.e., prehistoric or historic era) resources on the project site, so that there could be no impact on such resources associated with the proposed project.

Appendix C-2 contains correspondence from the NYS Office of Parks, Recreation and Historic Preservation (OPRHP) that states:

We have reviewed the report entitled "Phase I Archaeological Investigation at the Venezia Subdivision, Wading Rover, Town of Riverhead, Suffolk County, New York" (July 2016). No archaeological resources were identified and no additional archaeological work is necessary.

We have no concerns regarding the project's potential to impact historic architectural resources. Therefore, it is OPRHP's opinion that the project will have No Impact on archaeological and/or historic resources listed in or eligible for the New York State and National Registers of Historic Places.

3.4 Proximity to Threatened and Endangered Species

Figures 10 and 11 depict the presence and proximity of freshwater wetlands to the subject site, for wetlands designated by the NYS Department of Environmental Conservation (NYSDEC) and the National Wetlands Inventory (NWI), respectively. As can be seen, there is only one surface water body in the vicinity; it is named Deep Pond (designated by the NYSDEC as freshwater wetland W-1), and is located about 3,800 feet to the southeast of the site.

The property is presently comprised of 6.34 acres of successional old field previously utilized for farming practices. The site was cleared of natural vegetation by virtue of its past use as farmland; no significant vegetation or habitats are present on the subject property. Information on the potential presence of rare, threatened, endangered or special concern species that may inhabit or use the subject site was solicited from the NYS Natural Heritage Program (NYSNHP); the response is provided in **Appendix D**. The endangered Tiger Salamander was identified as being present approximately 1/3 mile from the project site. The species would have no association with the site due to the following:

• The species travels upland from vernal ponds typically in the range of 535 feet, but sometimes just over 1,000 feet. The location (1/3 mile away) is more than 1,700 feet from the subject site and as a result, migration to the property is not expected.



- There is intervening development south of the site between the Tiger Salamander breeding pond and the subject site.
- The site does not contain suitable upland sandy soil, pine barrens habitat for mole habits of the Tiger Salamander.

As a result, no impact is expected with respect to the Tiger Salamander.

Finally, it should be noted that not all of the site's existing natural habitat will be removed; an estimated 2.24 acres of successional old field vegetation (35.3% of the site, in conformance with the CLUP Standard), will remain. This will enable the site to continue to support wildlife and plant life.

3.5 Clearing

The Town Pine Barrens Overlay District, §301-197 A. (8) and the CPB CLUP allows, for development of a commercial use, a maximum of 65% of the site to be cleared. As noted above, the subject site is presently fully covered by successional field vegetation. Thus, the clearing standard would permit clearing of up to 4.12 acres of this natural vegetation. As shown on the **Site Plan**, the proposed project seeks to clear 4.10 acres of land, which is 64.6% of the total site. Thus, the proposed project conforms to the clearance standard of the CPB CLUP.

3.6 Parking Sufficiency

As shown in the **Site Plan**, a total of at least 186 parking spaces are required by Town Code Section 108-60A. **Table 3** presents the individual minimum parking requirements for each of the three commercial use types proposed:

TABLE 3
PARKING REQUIREMENTS

Commercial Use Proposed	Commercial Yield Proposed	Parking Space Rate (per Town Code, minimum)	Parking Spaces Required (minimum)
Bank	4,000 SF	1 space/150 SF	27
Retail (total)	30,000 SF	1 space/250 SF	120
Restaurants (total)	116 seats	1 space/3 seats	39
Total Parking			186 spaces

The **Site Plan** shows that the project will provide a total of 186 parking spaces, in conformance with the Town Code.



3.7 Traffic Impacts

The following discussion and analysis of the traffic-related aspects of the project has been taken from the TIS prepared for the project, by Schneider Engineering, PLLC of Ronkonkoma, New York. The entire revised TIS is contained herein, as **Appendix E**.

Existing Conditions

The area surrounding the subject development site contains a mixture of commercial uses and undeveloped land parcels. The western perimeter of the site borders Alexander Rothwell Funeral Home. The eastern and southern perimeter of the site borders on undeveloped land parcels. The northern perimeter of the site borders NYS Route 25A.

NYS Route 25A is a two-lane state highway (one lane in each direction) serving eastbound and westbound traffic. It is classified as a Principal Urban Arterial (FC-14) and is under the jurisdiction of the NYSDOT. At and near the proposed site, the lanes on the highway are approximately 12 feet in width in each direction with paved shoulders at approximately 8 feet in width. The posted speed limit in the vicinity of the site is 45 mph for both directions.

Dogwood Drive, on the north side of NYS Route 25A and across from the proposed site, is a two-lane local roadway serving northbound and southbound traffic that forms the northern leg of a three-legged T-intersection with NYS Route 25A. It intersects NYS Route 25A with a slight skew and traffic is STOP controlled on the side street. Traffic on NYS Route 25A at that intersection is not controlled. While it is not marked as a two-lane approach, the roadway is flared at the intersection and allows ample room for the queuing of vehicles turning left and right. The roadway serves commercial and residential properties located near NYS Route 25A. It is under Town of Riverhead Jurisdiction. The road is approximately 30 feet wide although there is no centerline marking installed. Sidewalk is present only on the departure lane adjacent to the Astoria Bank. The posted speed limit is 30 mph for both directions.

The intersection of NYS Route 25A and Wading River Manor Road is a four-way signalized intersection, with NYS Route 25A running east and west and Wading River Manor Road running north and south. The speed limit on Wading River Manor Road is 30 mph. Each of the four approaches has an exclusive left-turn lane and a shared through and right turn lane. Surrounding the intersection are commercial-use buildings such as McDonald's, Speedway, BNB Bank, Greek Island Diner, Little Bay Realty, Phil's Restaurant, and more along NYS Route 25A. The intersection is controlled by a multiphase semi-actuated uncoordinated signal with the following phasing:

- Eastbound and westbound protected left turns
- East-west through movements with permitted left turns
- North-south protected left turns
- North-south through movements with permitted left turns



2018 Existing Conditions Traffic Volumes

Peak periods for the proposed site, as it is classified as a Shopping Center (Land Use 820) by ITE in its Trip Generation Manual, are expected to be 11:00AM-1:00PM and 4:00PM-6:00PM during the week and 11:00AM-2:00PM on weekends. Turning movement counts were collected for these times on dates Thursday, October 18, 2018 and Sunday, October 28, 2018 at the intersections of NYS Route 25A with Dogwood Drive and Wading River Manor Road. The Sunday counts were taken because of very poor weather conditions on Saturday and will be used as Saturday peak volumes. The difference effects are expected to be negligible to our analysis due to the urban nature of the area. The turning movement count data are presented in Appendix A [of **Appendix E**].

Since the traffic counts were conducted in October, a seasonal factor was applied to the recorded peak hour traffic to account for the summer months when traffic in the area increases. A factor of 1.23 was applied to the midday and PM peak hour traffic, and a factor of 1.19 was applied to the Saturday peak hour traffic. The 2017 NYSDOT seasonal adjustment factors that were used can be found in Appendix B [of **Appendix E**].

At the intersection of NYS 25A and Dogwood Drive, the traffic volume data revealed that the midday peak period occurred at 12:30PM, the PM peak period occurred at 5:30PM, and the Saturday peak period occurred at 1:30PM. The peak hour traffic volumes for NYS 25A and Dogwood Drive are depicted in Figure 4 [of **Appendix E**].

At the intersection of NYS Route 25A and Wading River Manor Road, the traffic volume data revealed that the midday peak period occurred at 12:45PM, the PM peak period occurred at 5:15PM, and the Saturday peak period occurred at 12:30PM. The peak hour traffic volumes for NYS 25A and Wading River Manor Road are also depicted in Figure 4 [of **Appendix E**].

2018 Existing Conditions Capacity Analysis

The existing conditions capacity analysis results are illustrated in **Table 4** for intersections NYS Route 25A and Dogwood Drive and NYS Route 25A and Wading River Manor Road. The capacity analysis reports for the existing conditions are presented in Appendix C [of **Appendix E**].



TABLE 4
2018 EXISTING CONDITIONS CAPACITY ANALYSIS

		Long	Mid	day	PI	И	Saturday	
Intersection	Movement	Lane Group	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
NYS Route 25A & Dogwood Drive	SB	RL	23.8	С	48.6	E	25.5	D
		L	10.4	В	13.6	В	12.4	В
	EB	TR	18.8	В	19.8	В	28.2	С
		Approach	17.8	В	19.1	В	26.8	С
	WB	L	13.6	В	13.3	В	19.8	В
		TR	16.0	В	18.8	В	17.3	В
NYS Route 25A &		Approach	15.7	В	18.0	В	17.7	В
Wading River		L	45.7	D	48.4	D	44.1	D
Manor Road	NB	TR	56.2	Е	57.0	E	61.0	Е
		Approach	51.5	D	53.1	D	53.7	D
		L	43.9	D	44.3	D	46.7	D
	SB	TR	54.7	D	52.6	D	55.6	Е
		Approach	50.4	D	49.4	D	51.9	D
	Overall	_	28.5	С	29.0	С	34.0	С

2020 No Build Conditions

In order to examine the effects of the proposed development on the surrounding roadway network, first the existing condition traffic volumes must be projected for the year in which the project is anticipated to be completed. Based on the NYSDOT *Long Island Transportation Plan (LITP)*, the traffic volumes were projected by applying an annual growth rate of 1.7% annually to account for normal background traffic growth. Therefore, a total growth rate of 3.4% was utilized (1.7% x 2 years) for developing the background growth for the estimated time of completion (ETC) of Venezia Square in 2020.

In addition to normal background growth, we examined traffic associated with other nearby projects presently under development or planned for the near future. The Planning Departments at the Towns of Brookhaven and Riverhead identified several projects containing new development or the expansion of existing developments. The projects and their descriptions are listed as follows:

- Central Square is located along the south side of Route 25A, approximately a quarter mile to the east of the intersection of Wading River Manor Road and Route 25A. The proposed development is comprised of a restaurant, 14,076 SF of retail space, a 4,250 SF bank with drive thru and 28,962 SF of professional office space.
- **6333 Realty Group** is located adjoining Venezia Square on the east. This proposed development comprises of 6,960 SF of Medical Offices and 1,120 SF of General Office.



- **6336 Route 25A** is located on the northeast corner of Route 25A and Dogwood Drive. This proposed development includes a proposed 1,212 SF addition to an existing medical office building for the purpose of providing a 15-seat take-out restaurant.
- Hamlet Professional Offices is located on the north side of NYS Route 25A, east of Wading River Manor Road. This proposed development will consist of 5 office buildings for use as professional offices with a gross floor area of 31,181 SF.
- Real Life Church of Wading River is located approximately 315 FT north of the intersection of Route 25A and Dogwood Drive. The proposed development includes a proposed 2,952 SF expansion to the existing 2,533 SF church, which will include approximately 1,220 SF of office area in the basement of the church, 1,323 SF of meeting rooms in the basement, and 409 SF of sanctuary space to include 205 seats.

The other planned development traffic volumes are illustrated in Figure 5 [of **Appendix E**]. To obtain the 2020 No Build traffic volumes at the study intersections, the trips anticipated to be generated by the other planned developments in the vicinity of Venezia Square were added to the resulting volumes inflated by the background growth factor. The 2020 No Build traffic volumes are illustrated in Figure 6 [of **Appendix E**].

2020 No Build Capacity Analysis

The anticipated future no build conditions capacity analysis results are illustrated in **Table 5** for the intersections of NYS Route 25A with Dogwood Drive and Wading River Manor Road. The capacity analysis reports for the future no build conditions are included in Appendix D [of **Appendix E**].

TABLE 5
2020 FUTURE NO BUILD CONDITIONS CAPACITY ANALYSIS

		Long	Mid	day	PI	M	Saturday	
Intersection	Movement	Lane Group	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
NYS Route 25A & Dogwood Drive	SB	RL	36.3	E	147.3	F	66.2	F
		L	14.4	В	28.7	С	19.7	В
	EB	TR	28.4	С	34.9	С	84.1	F
		Approach	26.7	С	34.2	С	77.9	Е
	WB	L	21.0	С	25.9	С	41.2	D
		TR	21.6	С	38.7	С	27.8	С
NYS Route 25A &		Approach	21.6	С	36.7	D	29.9	С
Wading River		L	41.8	D	46.3	D	77.7	Е
Manor Road	NB	TR	62.9	Е	65.7	E	64.9	Е
		Approach	53.8	D	57.0	E	70.3	Е
		L	45.5	D	41.9	D	108.7	F
	SB	TR	50.2	D	49.0	D	56.7	Е
		Approach	48.1	D	46.0	D	79.8	Е
	Overall		33.5	С	40.6	D	63.6	E



Venezia Square Trip Generation

The proposed development is a 37,000 SF shopping center consisting of a bank with three drive thru windows (4,000 SF), three retail buildings (10,000 SF for two of those buildings and 7,000 SF for one), two fast food restaurants (1,500 SF each), and an 84-seat sit-down restaurant (3,000 SF). In order to assess its potential impact on future traffic conditions, the total traffic generated by the new facility was estimated for each analysis period. The trip generation was based on data from the ITE Trip Generation Manual, 9th Edition, where Shopping Center (Land Use Code 820) was selected as most appropriate for the proposed development based on the description in the manual. We decided to use a component size of 40,000 SF to be conservative and account for additional traffic using the cross-access from the adjoining eastern property, 6333 Realty Group.

The trip generation calculations are presented in **Table 6**.

TABLE 6
VENEZIA SQUARE SITE GENERATED TRIPS

Project Component	Size	Midday Pea	ık Hour	PM Peak	Hour	Saturday Peak Hour		
		Trips = EXP(0	0.67*LN	Trips=EXP(0.6	7*(X/1,000)	Trips=EXP(0.67	*LN(X/1,000)	
ITE #020	40,000	(X/1,000) -	(X/1,000) +3.31) +3.31)		+3.78)			
ITE #820		Entering	Exiting	Entering	Exiting	Entering	Exiting	
Shopping	SF	48%	52%	48%	52%	52%	48%	
Center		158	166	158	166	252	231	
		Total = 324	•	Total = 324		Total = 483		

Pass-by trips involve traffic already on the road making an unplanned stop at the particular land use. According to ITE's Trip Generation Handbook, 3rd Edition, there is a pass-by credit associated with the shopping center land use. ITE recommended an average pass-by percentage of 34% during the PM peak hour and 26% during the Saturday peak hour. We applied the recommended PM Peak hour 34% pass-by rate to the traffic generated during the midday and PM peak hour traffic and the recommended 26% pass-by rate to the Saturday peak hour.

The new versus pass-by generated trips are presented in **Table 7**.



TABLE 7
NEW vs. PASS-BY SITE GENERATED TRIPS

	Midday Peak Hour		PM Pea	k Hour	Saturday F	Peak Hour	
	Enter	Exit	Enter	Exit	Enter	Exit	
New	104	112	104	112	186	165	
Pass-by	54	54	54	54	66	66	
Total	158	166	158	166	252	231	

2020 Build Condition Traffic Volumes

The site generated traffic volumes were added to the 2020 No Build condition traffic volumes at the intersections NYS Route 25A with Dogwood Drive and Wading River Road, and the site's right-turn out only driveway to establish the 2020 Build Condition traffic volumes. This condition represents the anticipated traffic volumes that will occur in the build-out year and includes background growth, other development growth, and site generated traffic. The 2020 Build Condition traffic volumes are presented in Figure 8 [of **Appendix E**].

2020 Build Condition Capacity Analysis

The anticipated future build conditions capacity analysis results are found in **Table 8** for the intersections of NYS Route 25A with Dogwood Drive and Wading River Manor Road. A capacity analysis was also performed for the site's right turn out only driveway 360± feet east of the site's main drive. The capacity analysis reports for the future build conditions are included in Appendix E [of **Appendix E**].

TABLE 8
FUTURE WITH BUILD CONDITIONS CAPACITY ANALYSIS

		Lane	Midd	ay	PM		Saturday	
Intersection	Movement	Group	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
		L	6.6	Α	32.9	С	12.3	В
	EB	TR	12.7	В	20.8	С	31.8	С
		Approach	12.5	В	21.2	С	31.4	С
	WB	L	9.5	Α	20.9	С	33.5	С
NVC Doute 25A 9		TR	9.4	Α	35.3	D	14.5	В
NYS Route 25A & Dogwood Drive		Approach	9.4	Α	34.5	С	16.4	В
Dogwood Drive		L	49.3	D	49.6	D	52.7	D
	NB	TR	47.3	D	48.5	D	47.2	D
		Approach	48.6	D	49.2	D	50.8	D
	SB	TLR	47.3	D	47.6	D	45.6	D
	Overall		14.3	В	29.6	С	26.2	С
Venezia Square Right Turn Out Exit	NB	R	18.6	С	24.7	С	25.8	D



		Lane	Midd	ay	PM		Saturday	
Intersection	Movement	Group	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
& NYS Route 25A								
		L	15.7	В	38.3	D	23.1	С
	EB	TR	33.5	С	46.5	D	128.9	F
		Approach	31.4	С	45.5	D	118.8	F
	WB	L	25.0	С	38.7	D	41.2	D
		TR	23.4	С	53.0	D	32.3	С
NYS Route 25A &		Approach	23.6	С	50.9	D	33.6	С
Wading River		L	46.4	D	54.2	D	136.4	F
Manor Road	NB	TR	62.8	E	65.7	Е	64.8	Е
		Approach	55.3	Е	60.3	Е	97.6	F
		L	45.5	D	41.9	D	108.4	F
	SB	TR	51.3	D	49.2	D	60.7	Е
		Approach	48.8	D	46.2	D	81.4	F
	Overall		36.0	D	50.3	D	85.3	F

Since the worst conditions occur on Saturday where the LOS for the intersection at NYS Route 25A and Wading River Manor Road becomes an F, we recommend changing the signal timing of the light following the capacity analysis reports in Appendix [of **Appendix E**] in order to result in better and more acceptable LOS as shown in **Table 9**.

TABLE 9
FUTURE WITH BUILD CONDITIONS CAPACITY ANALYSIS WITH MITIGATION MEASURES

		Lana	Midd	ay	PM		Satui	rday
Intersection	Movement	Lane Group	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
		L	14.7	В	38.0	D	18.5	В
	EB	TR	28.8	С	34.8	С	67.8	F
		Approach	27.1	С	35.2	D	63.0	Е
	WB	L	22.0	С	33.8	С	61.1	Е
		TR	21.9	С	41.8	D	25.3	С
NYS Route 25A &		Approach	21.9	С	40.6	D	30.5	С
Wading River		L	49.3	D	56.8	Е	69.3	Е
Manor Road	NB	TR	54.9	D	54.0	D	53.9	D
		Approach	52.3	D	55.4	E	61.2	E
		L	47.1	D	43.3	D	68.8	E
	SB	TR	51.8	D	50.5	D	53.3	D
		Approach	49.7	D	47.4	D	60.2	E
	Overall		33.4	С	42.1	D	53.1	D



Conclusions

This updated traffic impact study was performed to investigate the potential impacts from traffic associated with Venezia Square, a 40,000 SF proposed shopping center, located along NYS Route 25A adjacent to the Alexander-Rothwell Funeral Home in Wading River, Riverhead. The intersections examined in this study were NYS Route 25A with Dogwood Drive and NYS Route 25A with Wading River Manor Road. Presently, the site is vacant. The estimated time of completion (ETC) of the project is 2020.

Existing traffic volume counts were taken in October, and the appropriate seasonal factors were applied to account for the area's busier season. Traffic volumes were then projected to the project year of completion using conservative background growth rates of 1.7% per annum in addition to adding site generated trips from new or expanded development in the area. These projections were used to perform capacity analysis to estimate the likely future traffic conditions with, and without, the proposed development. The results were compared to determine the difference in traffic conditions and if this difference would result in any appreciable impact on the surrounding roadway network.

The capacity analysis results demonstrate that the addition of Venezia Square will impact the NYS Route 25A and Wading River Manor Road intersection LOS at the Midday and Saturday peak periods, lowering each from a C to a D and an E to an F, respectively. However, if the signal timing is changed, the LOS at these peak periods can be a C and a D, respectively. To further help improve traffic conditions and the LOS, we recommend installing a right-turn lane at the eastbound approach. Overall, the addition of Venezia Square will not significantly impact traffic conditions.

The accident history review examined all of the accidents that occurred at the study intersections and surrounding roadway segments for the most recently available three year period. The analysis revealed that there is a pattern of rear-end accidents occurring at both intersections of NYS Route 25A with Dogwood Drive and Wading River Manor Road. General countermeasures for rear-end accidents can be found in Table 10. Additionally, a handful of deer-crossing related accidents occur in this area each year, but these accidents are unrelated to the roadway design. The to-be installed signalized light at Dogwood Drive with NYS Route 25A is expected to relieve the frequency of rear-end accidents occurring at this location.

As noted in **Section 3.2**, the updated TIS of December 2018 was revised in May 2022 in response to a Town Planning Department inquiry as to whether the intersection of NYS 25A and Wading River Manor Road would experience the same reduction in LOS if the mitigation described in the updated TIS were not implemented. The revised analysis (see **Appendix F**) indicates that, with new turning movement counts and considering updated background traffic growth, the future no build scenario will have an overall LOS C during the peak midday and PM conditions and LOS D during the Saturday condition. In the build scenario, service levels will not



be reduced from the no build scenario. Therefore, the proposed development will not result in a traffic impact that reduces service levels.

3.8 Cumulative Impacts

This subsection analyzes the impacts of the other projects in the area whose impacts, in conjunction with those of the proposed project, may cumulatively result in impacts that are significantly greater than the individual impacts that would occur from each project.

Based on the revised TIS (as determined by the Towns of Riverhead and Brookhaven planning departments for that study), there are two (2) other development project pending in the vicinity of the subject site:

- **Central Square** is located along the south side of NYS Route 25A, approximately a quarter mile to the east of the intersection of Wading River Manor Road and NYS Route 25A. The proposed development is comprised of a restaurant, 14,076 SF of retail space, a 4,250 SF bank with drive thru and 28,962 SF of professional office space.
- Real Life Church of Wading River is located approximately 315 feet north of the
 intersection of NYS Route 25A and Dogwood Drive. The proposed development includes
 a proposed 2,952 SF expansion to the existing 2,533 SF church, which will include
 approximately 1,220 SF of office area in the basement of the church, 1,323 SF of
 meeting rooms in the basement, and 409 SF of sanctuary space to include 208 seats.

The following briefly describes and discusses potential cumulative impacts that may be expected.

- It should be noted that each of these proposals would be constructed independently of the other, on separate time schedules. As a result, the construction-related impacts anticipated from each proposal may not occur simultaneously with the other project, which would mitigate the potential cumulative construction-related impacts.
- Temporary increases in the potential for fugitive dust and construction-related traffic and noise impacts would be expected for any proposal. However, as these impacts would be temporary in nature, no significant cumulative construction impacts are expected.
- In total, these proposals would involve some disturbance to local geological resources, primarily as a result of excavations for building foundations and utility connections. The area is relatively flat, so extensive volumes of soil are not expected from site grading operations.
- Each of these applications will conform to the requirements of SCSC Article 6, ensuring that significant adverse impacts to groundwater quality do not occur, either separately or cumulatively



- There are no freshwater wetlands in the vicinity of these proposals, so no impacts to surface water bodies are expected, as each development site will have to conform to Town requirements for on-site retention of stormwater runoff.
- As the proposal sites are either already developed or do not have significant ecological resources, no adverse cumulative impacts to ecological resources are expected, from habitat loss, removal of significant natural vegetation, or eradication of significant flora or fauna.
- New uses are anticipated to occupy buildings that would conform to height, bulk and setback requirements of their respective zonings, unless special permits or variances are requested. For each of these five proposals, the applicable Town entity would be responsible to determine the degree of conformance to, among other parameters, the patterns of land uses and zoning in the area, the applicable zoning requirements, and the recommendations of the Town Land Use Plan, the SGPA, the CPB CLUP, and any other applicable plans. As a result, development of each of these sites would have to demonstrate conform to a range of established land use and development controls, thereby minimizing the potential for adverse impacts to the use, zoning and planning environment in the area.
- Each of the proposals under consideration here are relatively small in scale, so that the anticipated traffic-related impacts of each on the local roadway network would also be relatively small. Cumulatively, however, these small impacts may result in a large impact on the operation of local intersections, necessitating improvements such as signal timing changes, new signal installations, road striping, roadside drainage systems, road lighting, turning lanes or road widenings. However, the revised TIS that was prepared for the proposed project (see **Appendix F**) included the two other development proposals in its analysis, so that the cumulative traffic-related impacts of all three proposals has been addressed. That analysis concluded that no significant adverse impacts to traffic conditions would occur.
- While these applications would combine to increase the demand upon local community services (e.g., schools, fire and police protection, public water supply, solid waste handling, etc.), these service demand increases would be incremental in nature, and would not introduce any new service needs. On the other hand, each of these services will receive an increase in funds from the tax revenues generated from the developments, which would offset at least a portion of the increased expenditures made necessary by these new developments, enabling these service providers to continue to have sufficient capability to provide services.
- As each of these projects would change the use and appearance of their sites, there will be a cumulative impact on the visual resources and character of the community. However, the area is already significantly developed with uses of a type similar to those of these five proposals.

In general, while some impacts are anticipated from these projects, based on the forgoing considerations, it is the applicant's opinion that impacts would not cumulatively be significant. Ultimately the involved agencies will review each application on its own merits, will weigh the



potential cumulative impacts outlined herein, and will render a decision on the significance of impacts and appropriateness of each project.



4.0 **SUMMARY & CONCLUSIONS**

The investigations contained in this document are useful in determining the importance of the proposed project's impacts, based on the criteria included in the format for an Expanded EAF. The criteria are as follows:

- the probability of the impact occurring,
- the duration of the impact,
- its irreversibility, including permanently lost resources of value,
- whether the impact can or will be controlled,
- the regional consequence of the impact,
- the potential divergence from local needs and goals,
- whether known objections to the project relate to this impact.

The following summarizes the anticipated impacts of the proposed project, as described and discussed in **Section 3.0** of this document.

4.1 Summary

Critical Environmental Area: SGPA

- The proposed project will conform to the Commercial Use recommended for the subject property in the SGPA Plan.
- The project will eliminate the potential for a renewal of farming on the project site.
 However, such activity ceased on the site a number of years ago, which would presumably have reflected the farmer's response to conditions no longer conducive to farming on this small parcel of land.
- The elimination of farming on the subject site would also end the use of any agricultural chemicals (e.g., pesticides, herbicides, fungicides) on the site, which incrementally reduce impacts to groundwater quality in the area. The proposed 0.84 acres of landscaped area is small, conforms to the CPB CLUP and Town Code §301-197 A.(9), and will require minimal maintenance.
- The subject site is located along the northern boundary of the SGPA, where analysis indicates that the water recharged on the subject site will flow northward, away from the SGPA.
- The site is on the periphery of the Wading River business district (within the Sound Avenue/NYS Route 25A commercial corridor), and is on land zoned for commercial use. This would suggest that the Town Board has determined that, assuming that the requirements of the Town Zoning Code, the Town Pine Barrens Overlay District, the CLUP and SCSC Article 6 are met, the location would be appropriate for commercial use.

Critical Environmental Area: Central Pine Barrens

• The tables in **Appendix B** presents each of standards and guidelines of the Town Pine Barrens Overlay District and the CPB CLUP for development within the CGA, with accompanying



- descriptions/discussions of whether and how the proposed project conforms to each. The tables (Appendices B-1 and B-2) demonstrate that the proposed project is in conformance with and consistent with the Town Pine Barrens Overlay District and the Standards and Guidelines of the CPB CLUP.
- The revised TIS indicates that the intersection of NYS Route 25A and Wading River-Manor Road will not experience any decline in LOS, so that the project would not qualify as a DRS under CLUP, and no Hardship review by the CPBJPPC would be necessary or warranted.

Proximity to Cultural Areas

- The Phase I Archaeological Investigation concludes that there are no cultural (i.e., prehistoric or historic era) resources on the project site, so that there could be no impact on such resources associated with the proposed project.
- Appendix C-2 contains correspondence from the NYS OPRHP that states:
 - We have reviewed the report entitled "Phase I Archaeological Investigation at the Venezia Subdivision, Wading Rover, Town of Riverhead, Suffolk County, New York" (July 2016). No archaeological resources were identified and no additional archaeological work is necessary.
 - We have no concerns regarding the project's potential to impact historic architectural resources. Therefore, it is OPRHP's opinion that the project will have No Impact on archaeological and/or historic resources listed in or eligible for the New York State and National Registers of Historic Places.

Proximity to Threatened and Endangered Species

- The endangered Tiger Salamander was identified by the NYS NHP as being present in ponds approximately 1/3 mile from the project site. The species would have no association with the site due to the following:
 - The species travels upland from vernal ponds typically in the range of 535 feet, but sometimes just over 1,000 feet. The location (1/3 mile away) is more than 1,700 feet from the subject site and as a result, migration to the property is not expected.
 - There is intervening development south of the site between the Tiger Salamander breeding pond and the subject site.
 - The site does not contain suitable upland sandy soil, pine barrens habitat for mole habits of the Tiger Salamander.
- As a result, no impact is expected with respect to the Tiger Salamander.
- It should be noted that not all of the site's existing vegetation will be removed; an estimated 2.24 acres of successional old field vegetation (35.3% of the site, in conformance with the Town and CLUP Standard), will remain. This will enable the site to continue to support wildlife and plant life.

Clearing

 The Town Pine Barrens Overlay District and the CPB CLUP allow, for development of a commercial use, a maximum of 65% of the site to be cleared. The subject site is presently fully covered by successional farm field vegetation. Thus, the clearing standard would



permit clearing of up to 4.12 acres of this natural vegetation. As shown on the **Site Plan**, the proposed project seeks to clear 4.10 acres of land, which is 64.6% of the total site. Thus, the proposed project conforms to the clearance standard of the Town Pine Barrens Overlay District and the CPB CLUP.

Parking Sufficiency

 As shown in the Site Plan, a total of at least 186 parking spaces are required by Town Code Section 108-60A. The Site Plan shows that the project will provide a total of 186 parking spaces, in conformance with the Town Code.

Traffic Impacts

• An updated TIS (2018) and a revised TIS (2022) were prepared to investigate the traffic and transportation impacts of the proposed project. Traffic volumes anticipated to be generated by the project were calculated using established background growth rates and allowances for new or expanded development in the area. These projections were used to perform capacity analyses to estimate the likely future traffic conditions with, and without, the proposed development. The results were compared to determine the difference in traffic conditions and if this difference would result in any appreciable impact on the surrounding roadway network. The results demonstrate that the proposed development will not have any appreciable impact on the surrounding roadway network.

Cumulative Impacts

In general, while some impacts are anticipated from the three projects evaluated, based on
the forgoing considerations, it is the applicant's opinion that impacts would not
cumulatively be significant. Ultimately the involved agencies will review each application on
its own merits, will weigh the potential cumulative impacts outlined herein, and will render
a decision on the significance of impacts and appropriateness of each project.

4.2 Conclusions

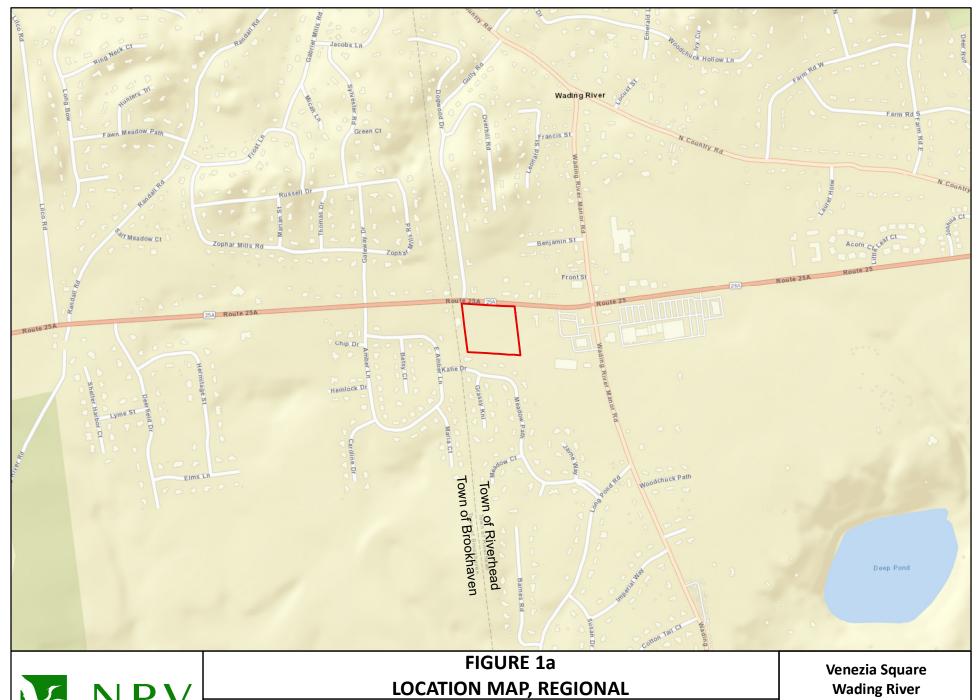
The environmental review process is a balancing process, wherein the potential adverse impacts of the proposed project are weighed against its merits, to give reviewing entities sufficient information and analysis to render an informed decision to approve or deny the application. The analyses in this document (and summarized in **Section 4.1** above) support a conclusion that the potential adverse impacts of the proposed project will not be significant and will, in any case, be geographically localized.

This report has been structured to provide additional information on the issues specified in the Town Planning Department memo, which reflects the concerns of the Town planning and environmental staff acting on behalf of the Town Board. The impact discussions and analyses herein are to be used to determine the environmental significance of the proposed project. Therefore, based on the contents of this EEAF, it is respectfully submitted that no significant impacts are expected to occur, and thus, a Negative Declaration is appropriate for the proposed project.



FIGURES







Source: ESRI WMS

Scale: 1 inch = 1,000 feet



Site Plan Application Expanded EAF

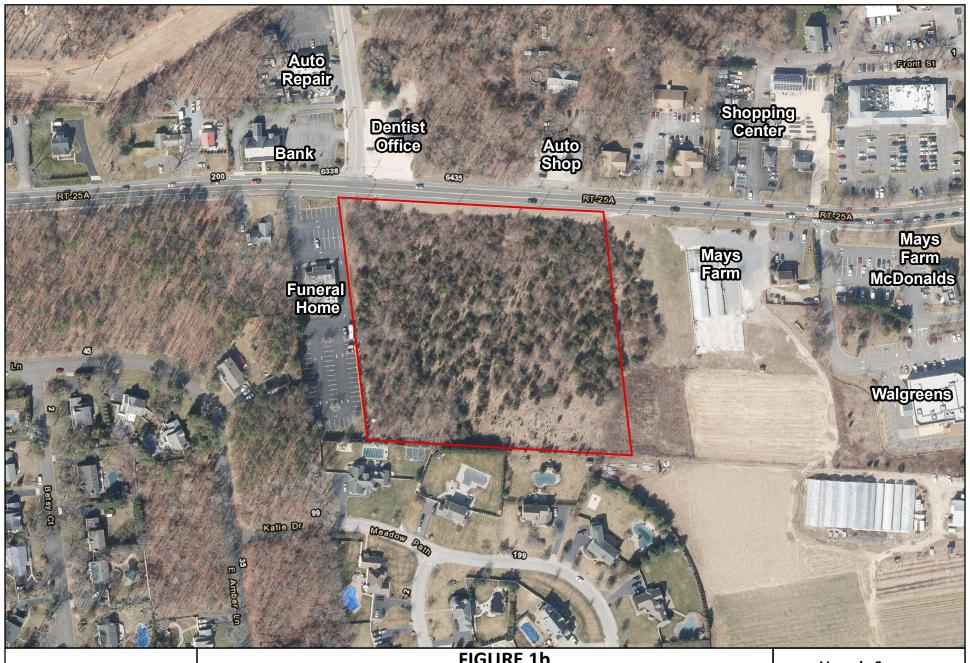




FIGURE 1b LOCATION MAP, LOCAL

Source: NYS Orthophotography, 2020

Scale: 1 inch = 200 feet



Venezia Square Wading River Site Plan Application Expanded EAF





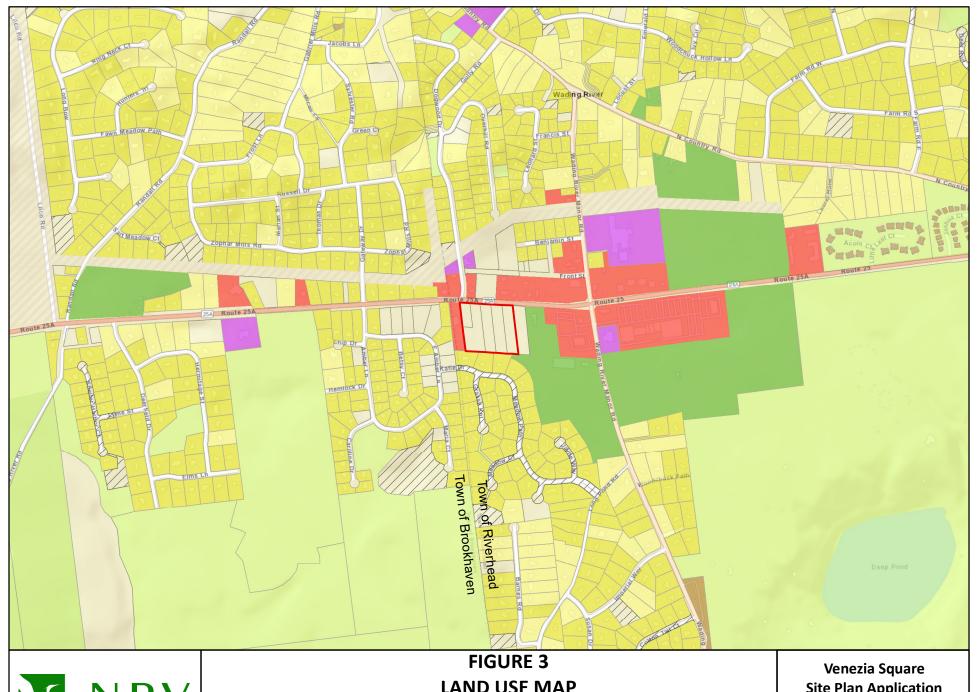
FIGURE 2 EXISTING CONDITIONS

Source: NYS Orthophotographyk, 2020

Scale: 1 inch = 100 feet



Venezia Square Wading River Site Plan Application Expanded EAF





LAND USE MAP

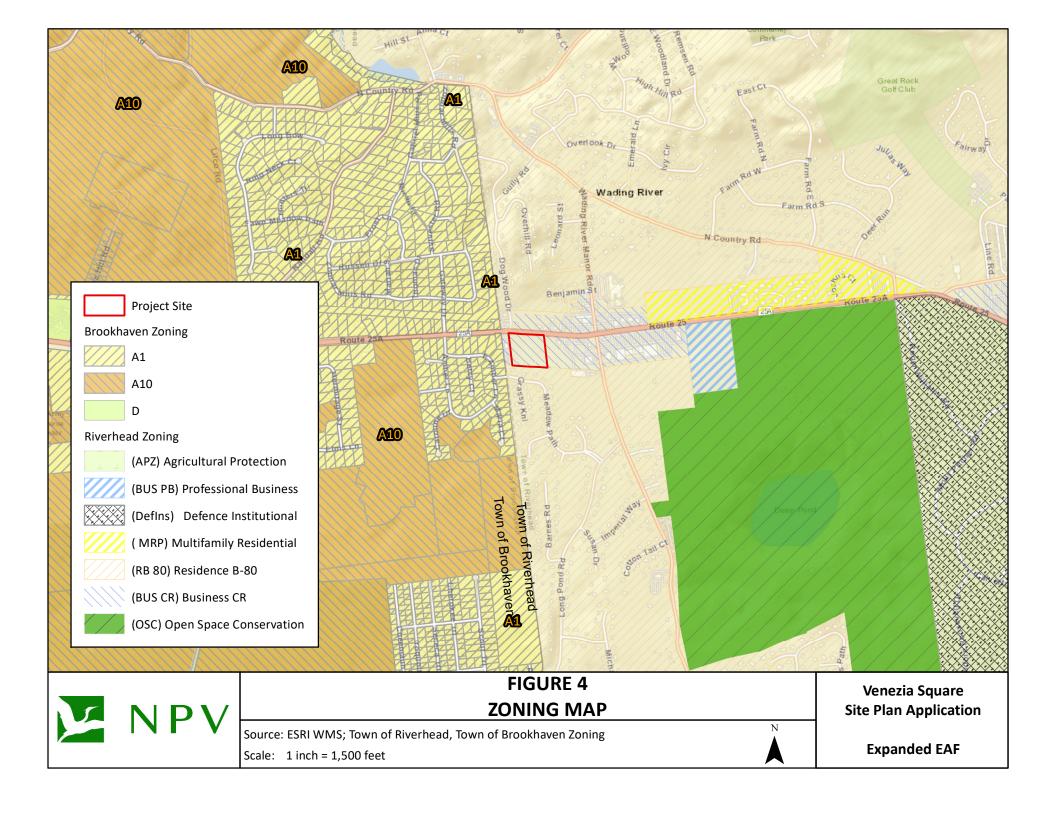
Source: ESRI WMS; Suffolk County LU, 2016

Scale: 1 inch = 1,000 feet



Site Plan Application

Expanded EAF







Source: Long Island Comprehensive Special Groundwater Protection Area Plan,

Long Island Regional Planning Board, 1992

Scale: 1 inch = 1,000 feet



Expanded EAF

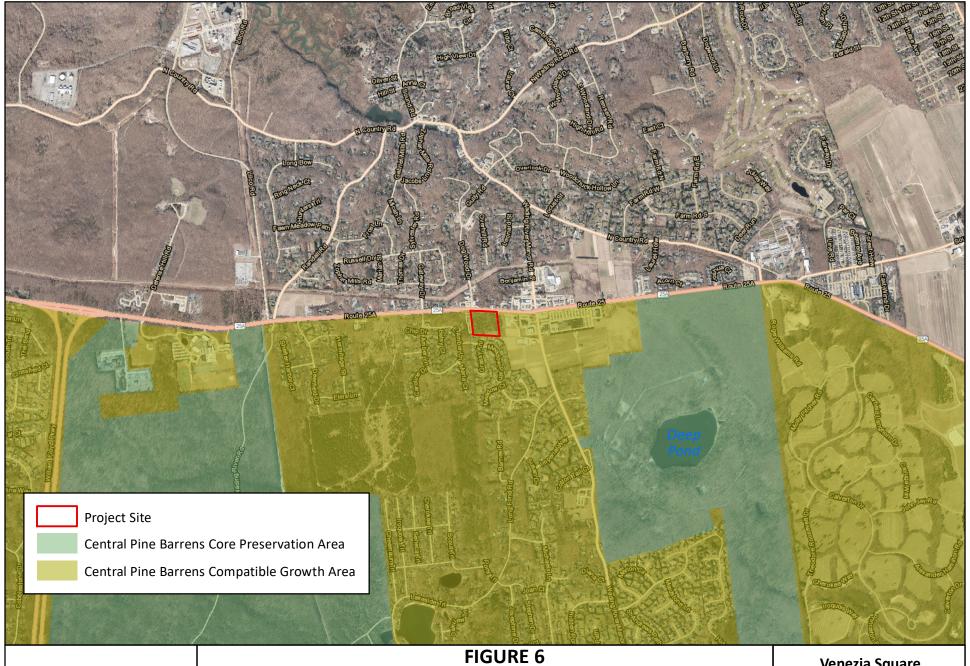




FIGURE 6 CENTRAL PINE BARRENS, CGA MAP

Source: NYS Orthophotography, 2020; Suffolk County data

Scale: 1 inch = 2,000 feet



Venezia Square
Site Plan Application

Expanded EAF





FIGURE 7 WATER TABLE CONTOUR MAP

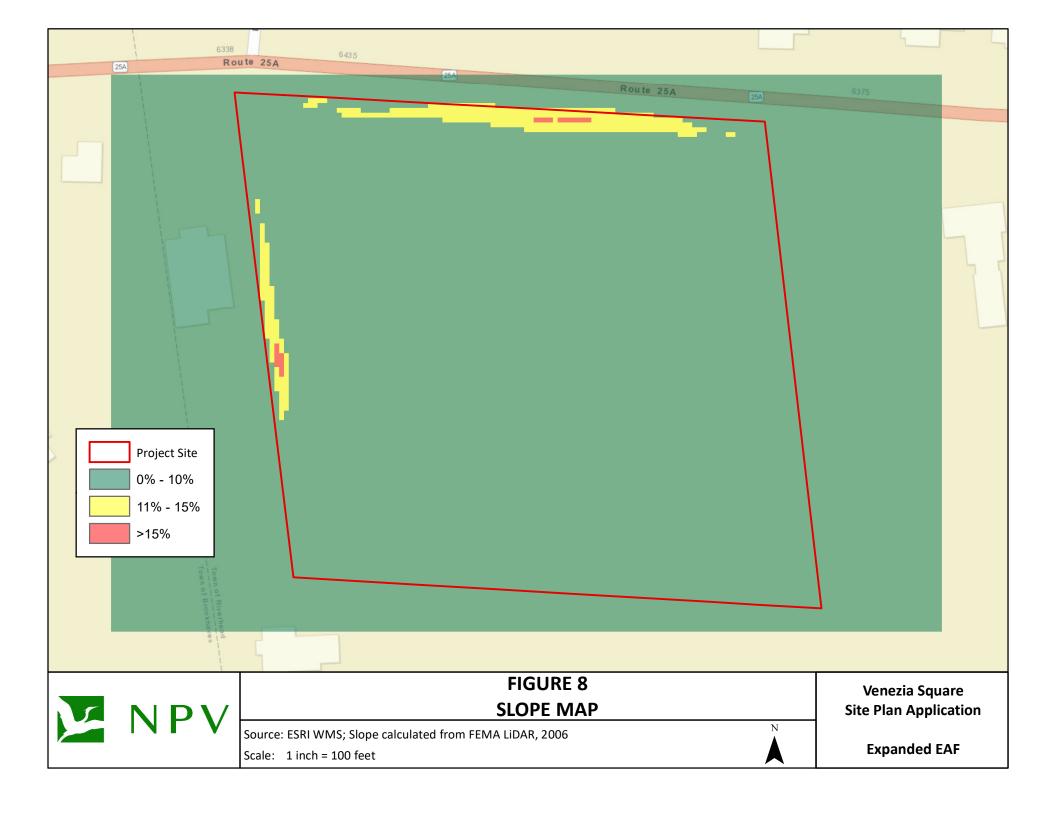
Source: NYS Orthophotography, 2020; USGS SIM 3398, 2016 data

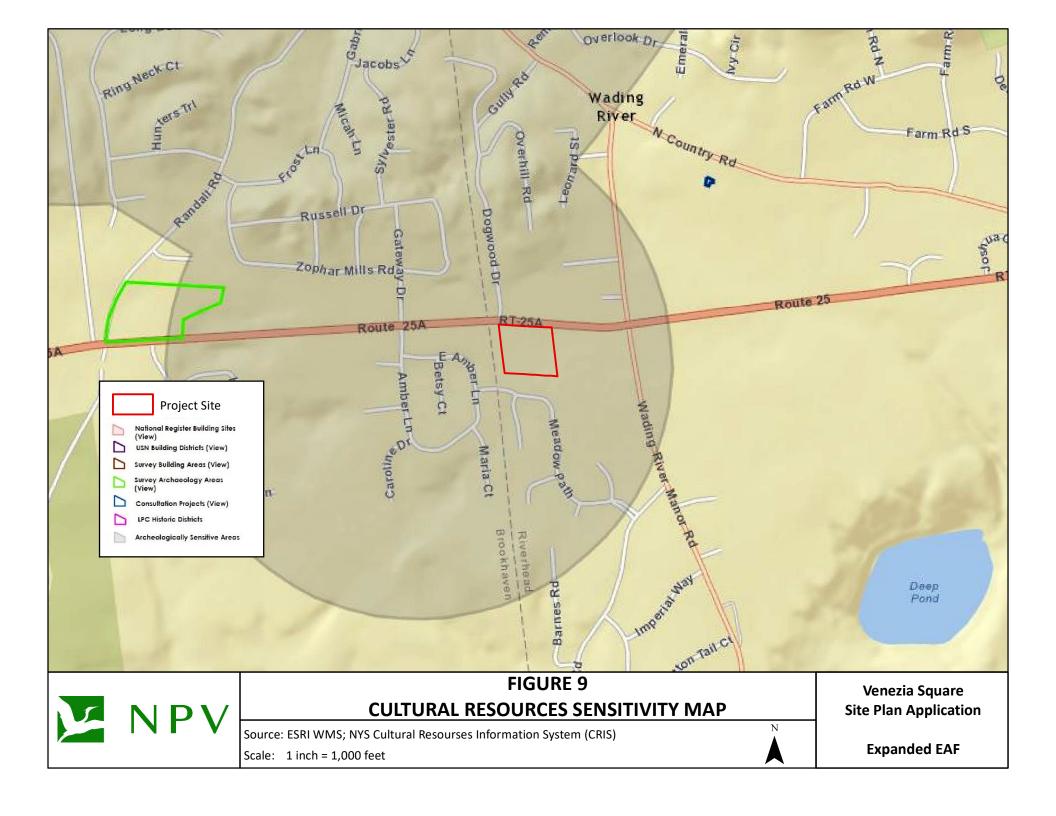
Scale: 1 inch = 2,000 feet

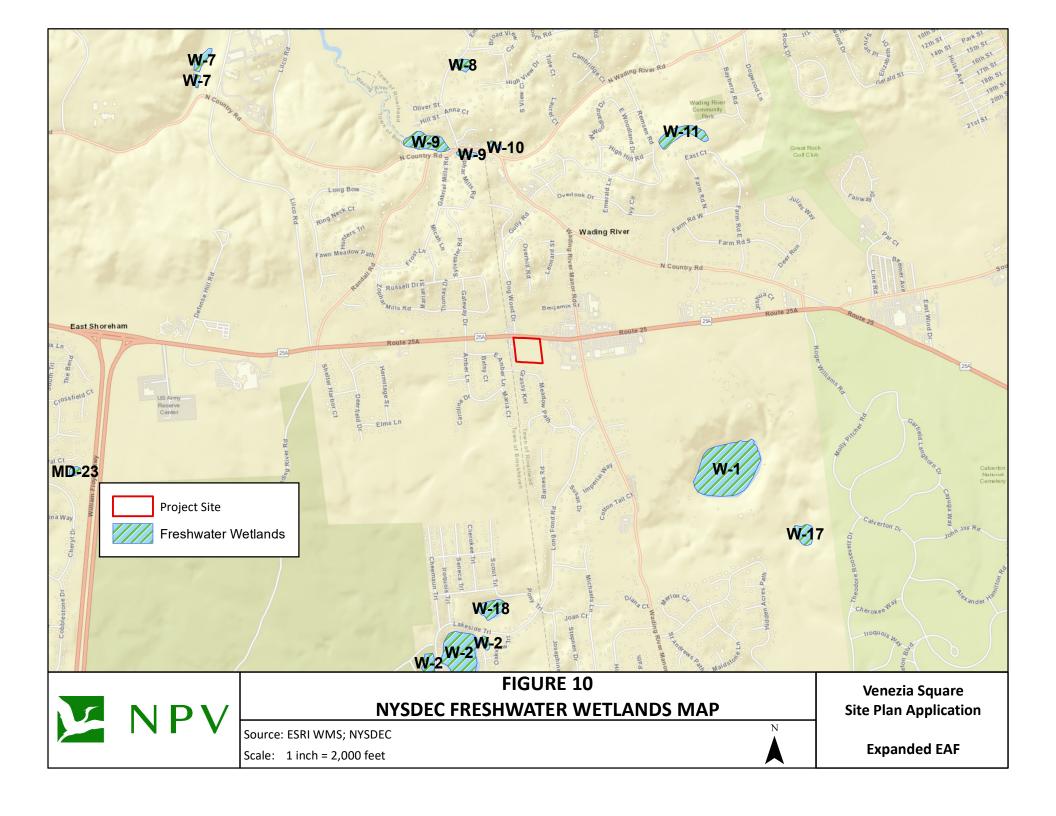


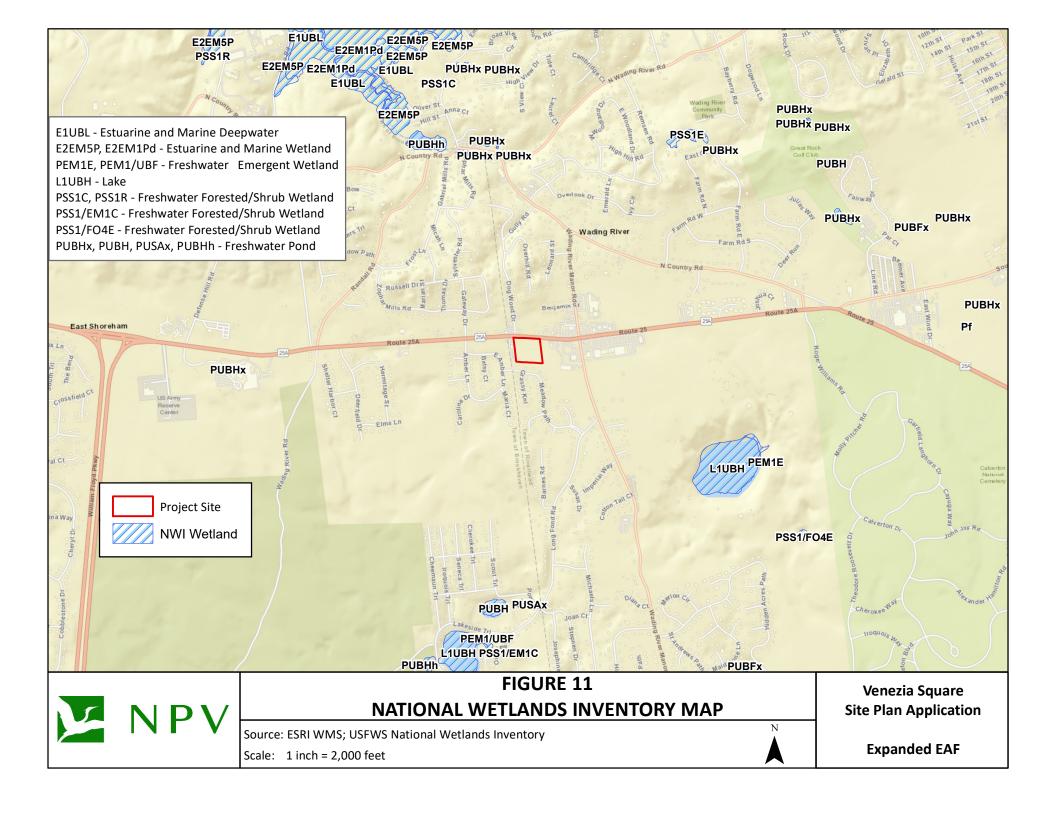
Venezia Square Site Plan Application

Expanded EAF









APPENDICES



Venezia Square Site Plan Application Expanded EAF

APPENDIX A SEQRA STAFF REPORT

Jeffrey Seeman, CEP; Environmental Planner January 7, 2016





TOWN OF RIVERHEAD PLANNING DEPARTMENT

200 HOWELL AVENUE, RIVERHEAD, NEW YORK 11901-2596 (631) 727-3200, FAX (631) 727-9101

Jefferson V. Murphree, AICP Town Building and Planning Administrator Ext. 239 Jeffrey Seeman Environmental Planner Ext. 207 Karin Gluth Planner Ext. 206 Jaime Ritter Account Clerk Typist Clerk to the CAC Clerk to the ARB Ext. 267 Kim E. Fuentes
Secretary to the
Planning Board
Secretary to the Zoning
Board of Appeals
Ext. 240

SEQRA Staff Report

Date: January 7, 2016

To: Stan Carey, Chairman Riverhead Planning Board

From: Jeffrey Seeman, CEP, Environmental Planner

Subject: SEQRA Evaluation and Review: Venezia Square, LLC c/o Northwind Group

<u>Application:</u> The applicant seeks to develop five (5) commercial buildings totaling 40,000 SF in floor area and associated site improvements on a vacant, 6.34 acre site. The buildings will be used as retail stores, a bank, and a restaurant. Existing natural area will remain along the western, southern and eastern property lines. Two curb cuts are proposed along the northern property line in the right of way of NYS Route 25A. A 204 stall parking field is proposed. The buildings will connect to an existing water main, located on 25A. Stormwater control devices include leaching pools and sanitary disposal will be provided by sanitary leaching pools.

The site is located within the Central Pine Barrens "Compatible Growth Area" (CGA) with CPB restrictions placed on site clearing and areas of fertilized dependent vegetation.

Site Location: Port Jefferson- Riverhead Road (NYS Route 25 A, Wading River, Town of Riverhead, NY SCTM # 600-73-1-1.4 and 1.16-1.19

<u>Plans/Information Submitted</u>: Plans reviewed were prepared by Bohler Engineering (Sheets C-1 through C-13), last dated December 8, 2009 and a Short Environmental Assessment Form (SEAF) Part 1, dated February 5, 2015 and signed by Joseph Vento. A site plan application was received on April 10, 2015 for conversion of several contiguous parcels of vacant land (with one partially farmed) in Wading River into a commercial center with 30,000 sq. ft. of retail (in three 10,000 sq. ft. buildings), a 4,000 sq. ft. bank with a drive-through, a 3,000 sq. ft., 84 seat restaurant, and two 1,500 sq. ft. take-out spaces (seating not specified).

The site, zoned Business CR, is 276,249 sq. ft. (6.342 acres) on the south side of Port Jefferson-Riverhead Rd. (Route 25A) several parcels west of the intersection with Wading River Rd. The western portion is across from Dogwood Dr. to the north. The site is within the Central Pine Barrens Compatible Growth Area.

The surrounding uses include a funeral home (in Brookhaven Town) to the west, single-family residences and farmland to the south, and vacant and farmed land to the east on a parcel for which a site plan has been submitted for two buildings, one to be built initially for office use, including a veterinary office, and a future building for office/retail.

Across Route 25A at the northeast corner of the intersection of Dogwood Dr. is a dentist's office, for which a site plan application was submitted for an addition. Going east there is vacant wooded land, an automotive garage, and a small shopping center with various uses including another dental office and a Subway sandwich shop.

It should be noted that a site plan application was previously submitted for this property in 2011, but the application was considered incomplete because required items were not submitted. The application was ultimately returned due to the time elapsed. A new application was submitted on October 30, 2014, but the application was not complete until February 9, 2015.

The revised site plan reviewed, last dated September 18, 2008, prepared by Joseph A. Deal, P. E., shows a "potential cross access" to the east and an area labeled "natural area to remain undisturbed" that includes a portion of a corn field.

It should be noted that the plan under review is from 2008 and has not been updated to include a code change increasing the amount of square footage per parking stall for retail use, from 200 sq. ft. per stall to 250 sq. ft. per stall. This change was a recommendation of the 2012 Wading River Corridor Study.

Planning staff is conducting a review of the site plan application.

SEQRA: Staff recommends the Planning Board act as lead agency, and staff advises the Planning Board a coordinated review with involved agencies may take place. The application's SEAF was reviewed by staff on October 22, 2015. The use of the SEAF has some limitation on staff's ability to comprehensively review potential for impacts. The applicant has provided a copy of the Environmental Assessment Form Mapper (EAFM), a screening tool to aid in the review process. The EAFM identified the following items recommended for the lead agency to consider: Critical Environmental Area: Central Pine Barrens, Special Groundwater Protection Area, Proximity to Archeological Site(s) and Threatened and Endangered Species.

The EAFM does not automatically and conclusively affirm the aforementioned conditions exist, but is used as a tool for review and SEQRA determination.

Staff recommends the applicant provide more detail to explore the potential for impact to the items listed form the EAFM and the following staff concerns:

1. Critical Environmental Area: Central Pine Barrens, Special Groundwater Protection Area

- 2. Proximity to Archeological Site(s)
- 3. Threatened and Endangered Species
- 4. Proposed clearing limits that may exceed the land use restrictions set forth under the CRA of the CPB.
- 5. Justification of parking calculations and the required number of stalls.
- 6. Traffic generated by the proposed project and impacts upon area development.
- 7. Cumulative impacts (community character, purpose and need, waste water disposal, etc.) potentially generated by additional land development within this area of Wading River.

Based on the information provided to date, the project is categorized as an Unlisted Action as it is below the SEQRA threshold of a Type I. The additional information required to comply with the goal of SEQRA and "take a hard look" directs staff to recommend a Supplemental Narrative Statement be prepared by the applicant. Staff recommends the applicant and lead agency representatives of the Planning Department schedule a meeting to scope the requirements, methods of study for the Supplemental Narrative Statement.

Cc:

Jefferson V. Murphree, AICP, Town Building and Planning Administrator Karin Gluth, Planner, Riverhead Town Planning Department Kim Fuentes, Secretary to the Planning Board William Duffy, Attorney to the Planning Board Vincent Gaudiello, PE, Raynor Group

APPENDIX B CONFORMANCE TO CPB STANDARDS AND/OR GUIDELINES



APPENDIX B-1 Conformance to Town Pine Barrens Standards



Table B-1
CONFORMANCE TO TOWN PINE BARRENS STANDARDS

	Standard (S)/Guideline (G)	Explanation and Document Page Reference (Attach additional sheets if necessary)
301-197. A. (1)	All development subject to the provisions of Article 6 of the SCSC shall meet the applicable requirements of the SCDHS.	The proposed project will conform to SCSC Article 6 requirements for the treatment, handling and disposal of its sanitary wastewater. All wastewater will be treated and recharged to groundwater through facilities conforming to SCSC Article 6 requirements. Appropriate County approvals and permits will be obtained. The proposed project will not exceed SCSC Article 6 allowable flow. Based on the measures incorporated into the project that would tend to minimize potential nitrogen impacts to groundwater (i.e., conformance to SCSC Article 6, and limiting the acreage of fertilized landscaping to less than 15% of the site), the project is expected to generate an overall nitrogen concentration in recharge of less than 2.5 mg/l.
301-197. A. (2)	As determined by the State of New York or the County of Suffolk, any new public or private sewage treatment plant discharge shall be outside of the CPA and shall be located north of the groundwater divide, as defined by the SCDHS, as site conditions permit.	The proposed project will conform to SCSC Article 6 requirements; based on its standards, septic systems would be allowed for the proposed project, so that no STP is necessary. It is acknowledged that the project's effluent will be recharged within the CGA. However, the project will operate under the jurisdiction of the SCDHS and in conformance with SCSC Article 6, thereby assuring that no impact to underlying groundwater quality will occur. Review of the orientation of the water table contours (see Figure 7) indicates that groundwater flows toward the north, away from the Central Pine Barrens. This implies that water recharged on this site does not (and would not in the future) flow into the CGA or the CPA, where it could otherwise adversely impact groundwater in this critical region.
301-197. A. (3)	All development shall comply with the provisions of Articles 7 and 12 of the SCSC.	These regulations concern water pollution control (Article 7) and storage of hazardous or toxic materials associated with industrial use (Article 12). The proposed project is consistent with SCSC Article 7 in that it will not store or use hazardous or toxic materials in excess of the quantities allowed. As the proposed project is not an industrial operation, SCSC Article 12 is not applicable. It is acknowledged that the proposed project will include the use, storage and handling of various chemicals (e.g., landscaping fertilizers, pesticides, etc., and cleaning agents for retail, office & restaurant maintenance, etc.). However, the project will provide for proper facilities for these substances, as well as procedures for their application by trained and certified personnel, as well as procedures for cleanup and disposal, in conformance with pertinent County and State regulations and professional standards.
301-197. A. (4)	All development involving significant discharges to groundwater and located proximate to public water supply wells shall require measures to mitigate impacts upon water quality as required under Article 17 of the NYS ECL. The SCDHS's guidelines for private wells should be used for private wellhead protection.	This standard restricts activities that could degrade the public water supply within a 200-foot radius of a public supply well. However, no public water supply wellfields are located within 200 feet of the project site, and the proposed project will not have a "significant discharge" such that it would have the potential to impact public water supply. The subject property slopes downward slightly from northwest to southeast. The highest elevation of 125 feet above mean sea level (asl) is encountered at the northwest corner of the property while the lowest elevation is in the eastern portion. The elevation of groundwater beneath the subject property is approximately 35 feet asl, depending on meteorological conditions associated with the water year. Therefore, the depth to groundwater is approximately 93 feet. Test holes installed in 2006 by McDonald Geoscience to a depth of 17 feet did not encounter water. Therefore, sufficient vertical separation between the water table and the bottoms of the proposed leaching pools will be maintained to ensure proper performance of the on-site septic systems. The septic systems will be subject to the review and approval of the SCDHS. Review of the orientation of the water table contours (see Figure 7) indicates that groundwater flows toward the north, away from the Central Pine Barrens. This implies that water recharged on this site does not (and would not in the future) flow into the CGA or the CPA, where it could otherwise adversely impact groundwater in this critical region. The proposed project is in accordance with SCSC Articles 6 and 7, and all sanitary recharge will flow in a northerly direction (see Figure 7). As a result, sanitary recharge will flow in a direction away from that portion of the Riverhead Water District that would include public water supply wellfields, so that no impact to any such wellfield's cone of depression would occur.
301-197. A. (5)	Development proposals for sites containing or abutting freshwater wetlands shall be separated by a nondisturbance buffer area which shall be in accordance with Article 24 of the NYS ECL, the WSRR Act (the Rivers Act) and Chapter 295, Wetlands, of the Code of the Town of Riverhead, whichever is most restrictive. Distances shall be measured horizontally from the wetland edge	N/A; there are no areas of designated or suspected Town-regulated freshwater wetlands on the project site or in the immediate vicinity; no impacts to this resource are expected, and no buffers are necessary or proposed.

	established for wetlands as appropriate with conditions imposed to assure the	eation or local ordinance. Stricter buffer areas may be a Buffer areas shall be delineated on development plans preservation of the freshwater wetland resource. Said aration of covenants, conservation easement or similar	
301-197. A. (6)	Development proposals for sites within the regulated area of the NY WSRR Act shall conform to the standards of the Act. Variances from the Act shall meet all requirements imposed by the State of New York in order to be deemed to have met the requirements of this standard. Additional relief from the Town of Riverhead ZBA shall not be required.		
301-197. A. (7)	All stormwater generated by development shall be recharged on site unless surplus capacity exists in an off-site drainage system. In the review of development plans, the Town Board shall encourage the use of natural recharge areas or drainage system design which result in minimal disturbance of native vegetation with the use of natural swales and depressions as an		and leaching pools to retain all runoff within the property for on-site recharge in a drainage system designed in conformance with Town requirements. The project's drainage system will not utilize a man-made pond. No runoff from developed surfaces will be allowed to exit the site, based on the stringent retention and design requirements of the Town. The project's drainage system will be subject to the review and approval of the Town engineering staff and the project will comply with SPDES GP 0-15-002 for stormwater project notification and preparation of a SWPPP (if applicable). The proposed stormwater design conforms to the
301-197. A. (8)	Clearing		
(a)	shall conform to the following clearing s Zoning Use District RB80 APZ Ind A Ind C BUS CR EPCAL, LI, PIP, CO & PRP Districts	Maximum Clearing (percentage) 53% 53% 65% 65% 65% see map in Dept. of Planning	The project site is zoned Business CR, wherein the maximum allowed clearing is 65% which, for the 6.34-acre site, is 4.12 acres (conversely, a minimum of 35% of the site, or 2.22 acres, would have to be retained in its existing, naturally-vegetated state. The proposed project will clear 4.10 acres, or 64.62% of the site, and retain 2.24 acres (35.3%) of the site. As a result, the project will conform to this standard.
(b)	including but not limited to public high structures and recharge areas. Deve vegetated areas, shall calculate those previous activities and shall contain vegetation and indicate the clearing lim	portions of the site that are already cleared due to calculations for the amount of disturbance of native its thereof.	The clearing percentage has been calculated over the entire property. The Site Plan for the proposed project delineates the site's existing natural areas and presents calculations of existing and anticipated natural areas.
(c)	the clearing limits, the site shall be c However, the CPA portion may not be c	· · · · · · · · · · · · · · · · · · ·	N/A; no portion of the project site is within the CPA.
(d)	now known as "EPCAL" shall be adopt prohibited. The areas where clearing is	rict within the fence line of the former Grumman facility ted designating those areas of EPCAL where clearing is prohibited shall constitute 35% of the overall site. Those nd clearing is not prohibited may be cleared. The map ocal law of the Town Board.	

(e)	Land subdivision maps and site plans outside of the EPCAL site shall also be designed to encourage the preservation of large unbroken blocks that provide for contiguous open spaces to be established when adjacent parcels are developed. Applications for subdivision and site plan shall contain calculations for clearing, and these limits shall become part of the filed map or approved drawings. Nonnative vegetation species to be avoided are contained in Figure 5-2 of the CPB CLUP.	N/A; no portion of the project site is within the EPCAL site. It is noted that, generally, this standard concerns preservation of natural vegetation in large unbroken blocks to establish open spaces contiguous to on-site and, if possible, off-site property. The project will retain the entire southern third of the property in such a condition, which reflects the character of the abutting land to which it will be contiguous, thereby forming an open space continuum as
301-197. A. (9)	Development projects shall place no more than 15% of the entire site in fertilizer-dependent vegetation. Development designs shall consider native planting suggestions made part of the plan.	No more than 15% of a project site shall be established in fertilizer-dependent vegetation. As the project site is a total of 6.34 acres in size, up to 0.95 acres of landscaping that requires fertilization may be planted on this site. Based on the Site Plan , a total of 0.84 acres of landscaping area proposed. In the unlikely event that all of these 0.84 landscaped acres are fertilized, the project will conform to this standard on fertilized acreage. Final site plans will ensure that less than 15% of the site is established in fertilizer-dependent vegetation. None of the non-native species listed in Figure 5-2 of the CLUP will be used as part of the project's final site plan landscape design plans.
		More than 35% of the site will remain in its current vegetated state. Landscaping will primarily include grass species and typical shrub/tree plantings in the vicinity of the building. Landscaping will consider the species listed in Figure 5-2 of the CLUP to the maximum extent practicable.
301-197. A. (10)	Development which will have a significant negative impact upon a habitat essential to those species identified on the New York State maintained lists as rare, threatened or of special concern, or upon the communities classified by the New York State Natural Heritage Program as G1, G2 or G3 or as S1, S2 or S3 or upon any federal listed endangered or threatened species, appropriate mitigation measures, as determined by the state, county or local government agency, shall be imposed to protect such species.	The property is presently comprised of 6.34 acres of successional old field previously utilized for farming practices. The site was cleared of natural vegetation by virtue of its past use as farmland; no significant vegetation or habitats are present on the subject property. Information on the potential presence of rare, threatened, endangered or special concern species that may inhabit or use the subject site was solicited from the NYS Natural Heritage Program (NYSNHP); the response is provided in Appendix D . The endangered Tiger Salamander was identified as being present in ponds approximately ¼ mile from the project site. The species would have no association with the site due to the following: • The species travels upland from vernal ponds typically in the range of 535 feet, but sometimes just over 1,000 feet. The location (1/3 mile away) is more than 1,700 feet from the subject site and as a result, migration to the property is not expected. • There is intervening development south of the site between the Tiger Salamander breeding pond and the subject site. • The site does not contain suitable upland sandy soil, pine barrens habitat for mole habits of the Tiger Salamander. As a result, no impact is expected with respect to the Tiger Salamander. Finally, it should be noted that not all of the site's existing natural habitat will be removed; an estimated 2.24 acres of successional old field vegetation (35.3% of the site) will remain. This will enable the site to continue to support wildlife and plant life.
301-197. A. (11)	erosion control measures so as to mitigate negative environmental impacts. Where applicable, nondisturbance buffers shall be placed on those portions of the site where slopes exceed 10%. Development plans shall include a slope analysis depicting existing slopes in the ranges of 0% to 10%, 11% to 15% and 15% or greater. Erosion and sediment control plans and details of retaining walls and erosion control structures shall be required for	of acres of steep slopes (i.e., in excess of 10% and 15%) on the subject site, and these are located along the northern and the western property lines, in areas of the site that will not be disturbed. As only small areas of slopes in excess of 10% are found on the subject sited, no use of retaining walls for the project's parking areas or buildings is foreseen. The site plan to be reviewed by the Town Planning Board will include site grading and drainage. All grading is subject to Town engineering review and is typical of the developed portions of a commercial site with minimal topographic relief. An Erosion & Sediment Control Plan will be prepared as part of the site plan application for the project. Erosion prevention measures to be taken during construction may include: use of groundcovers (vegetative or artificial), drainage diversions, soil traps, minimizing the area of soil exposed to erosive elements at one time, and minimizing the time span that soil is exposed to erosive elements. Soil removed during grading and excavation will be used as backfill (if it displays acceptable bearing capacity and leaching characteristics) to produce acceptable slopes for construction. The proposed stormwater

	driveways traversing slopes of 10%.	construction practices specified by the appropriate Town agencies will be followed. Conformance to the Town Code and to the requirements of NYSDEC SPDES review of stormwater control measures may be necessary, to be consistent with Phase II stormwater permitting requirements for construction sites in excess of 1-acre (the SPDES GP-0-15-002 permit; hereafter, the General Permit), if applicable.
301-197. A. (12)	In order to provide for orderly development and the efficient provision of infrastructure, applications for development projects depicting either open space or reserve areas shall specify the conditions of ownership and the use of such lands, and such conditions shall be set forth in the deed of dedication, declaration of covenants, conservation easement or similar instrument.	
301-197. A. (13)	Where applicable, the use of a planned residential development or use of cluster design pursuant to Article LIV, Cluster Development, of this chapter shall be encouraged to preserve open space. Further, the use of planned industrial park development pursuant to the provisions of Article LIII, Subdivision Regulations, of this chapter shall be encouraged to preserve open spaces.	While the proposed project does not specifically incorporate clustering of the structures, the portion of the site to be developed has preferentially been located in the northern and central parts of the site, to minimize the area developed and thereby meet this standard.
301-197. A. (14)	Any existing, expanded or new activity involving agricultural production or horticulture shall comply with best management practices as set forth in the plan, as may be amended from time to time.	N/A; the project is commercial in nature, and does not include any agricultural or horticultural components.
301-197. A. (15)	man-made structures, consistent in style and scale with the community character, or other similar measures shall be taken to protect roadside areas as well as scenic and recreational resources.	Project design will retain buffers of natural vegetation along the site's southern and western boundaries, which will reduce potential adverse visual impacts for observers in these directions. Due to the commercial nature of the project, the small size of the site, and the presence and proximity of other, complementary commercial sites to the north and the east, it is not feasible to retain buffers of natural vegetation in these directions as well. It is noteworthy that the decision to maintain natural buffers to the south and to the west (by placing the developed area in the northern portion of the property) reflects the applicant's decision to maximize protection of aesthetics for observers in these directions (where development is less prevalent), as opposed to the north and the east, where development already exists. The northern setback area will be landscaped appropriately, using species approved in the CLUP, Figure 5-2. The project's buildings and amenities will employ an attractive architectural treatment and complementary landscape design that would be consistent with the aesthetics of the area and congruent with the surrounding land uses. The project's developed area has been located so as to provide for the maximum practicable retention of natural vegetation as buffers to the more sensitive receptors (i.e., to the south and to the west), recognizing that the existing pattern of development along NYS Route 25A (to the east and north) precludes protection of scenic resources along this commercial corridor. Finally, plantings of landscape species around and within the developed area will add to the buffering effect of natural vegetation, reducing the potential adverse impact on scenic resources and community character.
301-197. A. (16)	All commercial or industrial development shall comply with the applicable provisions of the SCSC and all other applicable federal, state or local laws.	The proposed project complies with all applicable requirements of the SCSC, including Articles 6, 7 and 12, as well as with all applicable requirements of the SCDHS. The project has been designed to comply with the applicable bulk and setback requirements of the Town Code for the CR Business zone.

Venezia Square Site Plan Application Expanded EAF

APPENDIX B-2 Conformance to CLUP Standards and Guidelines for Land Use



Table B-2
CONFORMANCE TO CPB CLUP STANDARDS AND GUIDELINES FOR LAND USE

		Standard (S)/Guideline (G)	Explanation and Document Page Reference (Attach additional sheets if necessary)			
	5.3.3.1 Nitrate-nitrogen					
S 5.3.3.1.1 SCSC Article 6 compliance		All development proposals subject to SCSC Article 6 shall meet all applicable requirements of the SCDHS. Projects which require variances from the provisions of Article 6 shall meet all requirements of the SCDHS Board of Review in order to be deemed to have met the requirements of this standard.	The proposed project will conform to SCSC Article 6 requirements for the treatment, handling and disposal of its sanitary wastewater. All wastewater will be treated and recharged to groundwater through facilities conforming to SCSC Article 6 requirements. Appropriate County approvals and permits will be obtained. The proposed project will not exceed SCSC Article 6 allowable flow.			
S 5.3.3.1.2	STP discharge	Where deemed practical by the County or State, sewage treatment plant discharge shall be outside and downgradient of the CPB. Denitrification systems that are approved by the NYSDEC or the SCDHS may be used in lieu of an STP.	The proposed project will conform to SCSC Article 6 requirements; based on its standards, septic systems would be allowed for the proposed project, so that no STP is necessary. It is acknowledged that the project's effluent will be recharged within the CGA. However, the project will operate under the jurisdiction of the SCDHS and in conformance with SCSC Article 6, thereby assuring that no impact to underlying groundwater quality will occur.			
G 5.3.3.1.3	Nitrate-nitrogen goal	A more protective goal of two and one half (2.5) ppm may be achieved for new projects through an average residential density of one (1) unit per two (2) acres (or its commercial or industrial equivalent), through clustering, or through other mechanisms to protect surface water quality for projects in the vicinity of ponds and wetlands.	Based on the measures incorporated into the project that would tend to minimize potential nitrogen impacts to groundwater (i.e., conformance to SCSC Article 6, and limiting the acreage of fertilized landscaping to less than 15% of the site), the project is expected to generate an overall nitrogen concentration in recharge of less than 2.5 mg/l.			
		5.3.3.2 Other chemical contaminants	of concern			
S 5.3.3.2.1	All development projects must comply with the provisions of SCSC Articles 7 and 12, including any provisions for variances or waivers if needed, and all applicable state laws and regulations in order to ensure that all necessary water resource and wastewater management infrastructure shall be in place prior to, or as part of, the commencement of construction.		These regulations concern water pollution control (Article 7) and storage of hazardous or toxic materials associated with industrial use (Article 12). The proposed project is consistent with SCSC Article 7 in that it will not store or use hazardous or toxic materials in excess of the quantities allowed. As the proposed project is not an industrial operation, SCSC Article 12 is not applicable. It is acknowledged that the proposed project will include the use, storage and handling of various chemicals (e.g., landscaping fertilizers, pesticides, etc., and cleaning agents for retail, office & restaurant maintenance, etc.). However, the project will provide for proper facilities for these substances, as well as procedures for their application by trained and certified personnel, as well as procedures for cleanup and disposal, in conformance with pertinent County and State regulations and professional standards.			
		5.3.3.3 Wellhead protection				
S 5.3.3.1	Significant discharges and public supply well locations	The location of nearby public supply wells shall be considered in all applications involving significant discharges to groundwater, as required under the NYS ECL Article 17.	This standard restricts activities that could degrade the public water supply within a 200-foot radius of a public supply well. However, no public water supply wellfields are located within 200 feet of the project site, and the proposed project will not have a "significant discharge" such that it would have the potential to impact public water supply. The subject property slopes downward slightly from northwest to southeast (see Boundary & Topographic Survey). The highest elevation of 125 feet above mean sea level (asl) is encountered at the northwest corner of the property while the lowest elevation is in the eastern portion. The elevation of groundwater beneath the subject property is approximately 35 feet asl, depending on meteorological conditions associated with the water year. Therefore, the depth to groundwater is approximately 93 feet. Test holes installed in 2006 by McDonald Geoscience to a depth of 17 feet did not encounter water. Therefore, sufficient vertical separation between the water table and the bottoms of the proposed leaching pools will be maintained to ensure proper performance of the on-site septic systems. The septic systems will be subject to the review and approval of the SCDHS. Review of the orientation of the water table contours (see Figure 7) indicates that groundwater flows toward the north, away from the Central Pine Barrens. This implies that water recharged on this site does not (and would not in the future) flow into the CGA or the CPA, where it could otherwise adversely impact groundwater in this critical region.			

G 5.3.3.3.2	protection		The project will conform to SCSC Articles 6 and 7; sanitary recharge will flow to the north (see Figure 7), so sanitary recharge will flow away from that portion of the Riverhead Water District that would include public water supply wellfields, so that no impact to any such wellfield's cone of depression would occur.		
	5.3.3.4 Wetlands and surface waters				
S 5.3.3.4.1	Nondisturbance buffers	Development proposals for sites containing or abutting freshwater or tidal wetlands or surface waters must be separated by a nondisturbance buffer area which shall be no less than that required by the New York State Tidal Wetland, Freshwater Wetland, or WSRR Act or local ordinance. Distances shall be measured horizontally from the wetland edge as mapped by the NYSDEC, field delineation or local ordinance. Projects which require variances or exceptions from these state laws, local ordinances and associated regulations, shall meet all requirements imposed in a permit by the NYSDEC or a municipality in order to be deemed to have met the requirements of this standard.	N/A; there are no areas of designated or suspected Town-regulated freshwater wetlands on the project site or in the immediate vicinity; no impacts to this resource are expected.		
S 5.3.3.4.2	Buffer delineations, covenants and conservation easements	Buffer areas shall be delineated on the site plan, and covenants and/or conservation easements, pursuant to the NYS ECL and local ordinances, shall be imposed to protect these areas as deemed necessary.	N/A; there are no areas of designated or suspected Town-regulated freshwater wetlands on the project site or in the immediate vicinity, so that no buffers are necessary or proposed.		
S 5.3.3.4.3	WSRR Act compliance	Development shall conform to the provisions of the NYS WSRR Act, where applicable. Projects which require variances or exceptions under the NYS WSRR Act shall meet all requirements imposed by the NYSDEC in order to be deemed to have met the requirements of this standard.	N/A; the project site is not located within or adjacent to any WSRR boundary.		
G 5.3.3.4.4	Additional nondisturbance buffers	Stricter nondisturbance buffer areas may be established for wetlands as appropriate.	N/A; there are no areas of designated or suspected Town-regulated freshwater wetlands on the project site or in the immediate vicinity, so that no buffers are necessary or proposed.		
		5.3.3.5 Stormwater runoff			
\$ 5.3.3.5.1	Stormwater recharge	Development projects must provide that all stormwater runoff originating from development on the property is recharged on-site unless surplus capacity exists in an off-site drainage system.	Runoff from developed surfaces will be retained on-site and recharged in a drainage system conforming to Town requirements. This system will use sloped paved surfaces, catch basins and leaching pools to retain all runoff within the property for on-site recharge. No runoff from developed surfaces will be allowed to exit the site, based on the stringent retention and design requirements of the Town. The project's drainage system will be subject to the review and approval of the Town engineering staff and the project will comply with SPDES GP 0-15-002 for stormwater project notification and preparation of a SWPPP (if applicable).		
			The proposed stormwater design conforms to the intent of this standard.		
G 5.3.3.5.2	Natural recharge and drainage	Natural recharge areas and/or drainage system designs that cause minimal disturbance of native vegetation should be employed, where practical, in lieu of recharge basins or ponds that would require removal of significant areas of native vegetation.			
G 5.3.3.5.2 G 5.3.3.5.3	_	native vegetation should be employed, where practical, in lieu of recharge basins or ponds that	The proposed stormwater design conforms to the intent of this standard. There are no natural recharge areas on or near the proposed development area that could be used in the project's drainage system. In lieu of such features, the project will utilize a combination of slopes on paved		
	drainage	native vegetation should be employed, where practical, in lieu of recharge basins or ponds that would require removal of significant areas of native vegetation. Ponds should only be created if they are to accommodate stormwater runoff, not solely for	The proposed stormwater design conforms to the intent of this standard. There are no natural recharge areas on or near the proposed development area that could be used in the project's drainage system. In lieu of such features, the project will utilize a combination of slopes on paved surfaces, catch basins and leaching pools to retain all runoff within the property for on-site recharge.		

	5.3.3.6 Natural vegetation and plant habitat				
		The clearance of natural vegetation shall be strictly limited. Site plans, surveys and subdivision	Tidottut .		
S 5.3.3.6.1	Vegetation Clearance Limits	maps shall delineate the existing naturally vegetated areas and calculate those portions of the site that are already cleared due to previous activities. Areas of the site proposed to be cleared combined with previously cleared areas shall not exceed the percentages in Figure 5-1 [of the CLUP]. These percentages shall be taken over the total site and shall include, but not be limited to, roads, building sites and drainage structures. The clearance standard that would be applied to a project site if developed under the existing residential zoning category may be applied if the proposal involves multi-family units, attached housing, clustering or modified lot designs. Site plans, surveys and subdivision maps shall be delineated with a clearing limit line and calculations for clearing to demonstrate compliance with this standard. To the extent that a portion of a site includes CPA property, and for the purpose of calculating the clearance limits, the site shall be construed to be the combined CPA and CGA portions.	Under the clearance standards listed in Figure 5-1 of the CLUP, the maximum allowed clearance for the subject site is 65%, or 4.12 acres (conversely, a minimum of 35% of the site, or 2.22 acres, would have to be retained in its existing, naturally-vegetated state. The proposed project clear 4.10 acres, or 64.62% of the site, and retain 2.24 acres (35.3%) of the site. As a result, the project will conform to this standard.		
		However, the CPA portion may not be cleared except in accordance with Section 5.2 of the CLUP.			
S 5.3.3.6.2	Unfragmented open space	Subdivision and site design shall support preservation of natural vegetation in large unbroken blocks that allow contiguous open spaces to be established when adjacent parcels are developed. Subdivision and site designs should also be configured in such a way so as to prioritize the preservation of native pine barrens vegetation to the maximum extent practicable. For the purpose of this paragraph, native pine barrens vegetation shall include pitch pines and various species of oak trees, understory and ground cover plants such as blueberry, wintergreen, bearberry and bracken fern, grasses and sedges such as little bluestem, Pennsylvania sedge and indian grass as well as those ecological communities listed in sections 5.6 and 5.7 in Chapter 5, Volume 2 of the CLUP. It is recognized that the preservation of nonnative but ecologically important habitats may be consistent with the intent and goals of the plan when such action would result in the creation of large contiguous natural open space areas and or the protection of rare, threatened or endangered species or their habitat.	This standard concerns preservation of natural vegetation in large unbroken blocks to establish open spaces contiguous to on-site and, if possible, off-site property. The project will retain the entire southern third of the property in such a condition, which reflects the character of the abutting land to which it will be contiguous, thereby forming an open space continuum as intended by this standard.		
S 5.3.3.6.3	Fertilizer dependent vegetation limit	No more than 15% of an entire development project site shall be established in fertilizer-dependant vegetation including formalized turf areas. Generally, nonnative species require fertilization; therefore, planting of such nonnative species shall be limited to the maximum extent practicable. The use of the nonnative plants in Figure 5-2 [of the CLUP] is specifically not recommended.	unlikely event that all of these 0.84 landscaped acres are fertilized, this will conform to the CLUP standard on fertilized acreage. Final site plans will ensure that less than 15% of the site is established in fertilizer-dependent vegetation. None of the non-native species listed in Figure 5-2 of the CLUP will be used as part of the project's final site plan landscape design plans.		
S 5.3.3.6.4	Native Plantings	Development designs shall consider the native planting suggestions in Figure 5-2 [of the CLUP].	More than 35% of the site will remain in its current vegetated state. Landscaping will primarily include grass species and typical shrub/tree plantings in the vicinity of the building. Landscaping will consider the species listed in Figure 5-2 of the CLUP to the maximum extent practicable.		
		5.3.3.7 Species and communities of species			
\$ 5.3.3.7.1	Special Species and	Where a significant negative impact upon a habitat essential to those species identified on the	The property is presently comprised of 6.34 acres of successional old field previously utilized for farming		

	Ecological Communities	New York State maintained lists as rare, threatened, endangered or of special concern, or upon natural communities classified by the New York Natural Heritage Program as G1, G2, G3 or S1, S2 or S3, or on any federally listed endangered or threatened species is proposed, appropriate mitigation measures as determined by the appropriate state, county or local government agency shall be taken to protect these species.	 rare, threatened, endangered or special concern species that may inhabit or use the subject site was solicited from the NYS Natural Heritage Program (NYSNHP); the response is provided in Appendix D. The endangered Tiger Salamander was identified as being present in ponds approximately 1/3 mile from the project site. The species would have no association with the site due to the following: The species travels upland from vernal ponds typically in the range of 535 feet, but sometimes just over 1,000 feet. The location (1/3 mile away) is more than 1,700 feet from the subject site and as a result, migration to the property is not expected. There is intervening development south of the site between the Tiger Salamander breeding pond and the subject site. The site does not contain suitable upland sandy soil, pine barrens habitat for mole habits of the Tiger Salamander. As a result, no impact is expected with respect to the Tiger Salamander. Finally, it should be noted that not all of the site's existing natural habitat will be removed; an estimated 2.24 acres of successional old field vegetation (35.3% of the site, in conformance with the CLUP Standard 5.3.3.6.1), will remain. This
			will enable the site to continue to support wildlife and plant life.
I		5.3.3.8 Soils	N/A; this Guideline refers to establishment of clearing envelopes for lots within a subdivision; as the
G 5.3.3.8.1	Clearing envelopes	Clearing envelopes should be placed upon lots within a subdivision so as to maximize the placement of those envelopes on slopes less than ten percent (10%).	proposed project does not include a subdivision, this guideline does not strictly apply. Additionally, as the subject site was previously cleared and graded for use as agricultural fields, no natural slopes (whether in excess of 10% or not) remain on it.
G 5.3.3.8.2	Stabilization and erosion control	Construction of homes, roadways and private driveways on slopes greater than ten percent (10%) may be approved if technical review shows that sufficient care has been taken in the design of stabilization measures, erosion control practices and structures so as to mitigate negative environmental impacts.	N/A; this Guideline refers to implementing erosion control measures associated with development of individual homes; as the proposed project is commercial in nature and does not include a subdivision, this guideline does not strictly apply. Nevertheless, an Erosion & Sediment Control Plan will be prepared as part of the site plan application for the project. Erosion prevention measures to be taken during construction may include: use of groundcovers (vegetative or artificial), drainage diversions, soil traps, minimizing the area of soil exposed to erosive elements at one time, and minimizing the time span that soil is exposed to erosive elements. Soil removed during grading and excavation will be used as backfill (if it displays acceptable bearing capacity and leaching characteristics) to produce acceptable slopes for construction. The proposed stormwater design conforms to the intent of this standard. Applicable Town of Riverhead standards and construction practices specified by the appropriate Town agencies will be followed. Conformance to the Town Code and to the requirements of NYSDEC SPDES review of stormwater control measures may be necessary, to be consistent with Phase II stormwater permitting requirements for construction sites in excess of 1-acre (the SPDES GP-0-15-002 permit; hereafter, the General Permit), if applicable.
G 5.3.3.8.3	Slope analysis	Project review is facilitated if submissions contain a slope analysis showing slopes in the ranges 0-10%, 11-15% and 15% and greater. In areas with steep slopes, slope analysis maps should be required. This can be satisfied with cross hatching or shading on the site plan for the appropriate areas.	A slope interval map has been prepared depicting slope intervals of 0-10%, 10-15% and greater than 15%
G 5.3.3.8.4	Erosion and sediment control plans	Erosion and sediment control plans should be required in areas of fifteen percent (15%) or greater slopes.	N/A; only small areas of slopes in excess of 15% are found on the project site. The potential for erosion to occur during construction or after construction is completed will be controlled by implementing a

			SWPPP, which will include engineered Erosion Control Plans within the Site Plan review.			
G 5.3.3.8.5	Placement of roadways	Roads and driveways should be designed to minimize the traversing of slopes greater than ten percent (10%) and to minimize cuts and fills.	N/A; only small areas of slopes in excess of 10% are found on the project site.			
G 5.3.3.8.6	control structures driveways which traverse slopes greater than ten percent (10%).		N/A; only small areas of slopes in excess of 10% are found on the subject sited, so no use of retaining walls for the project's parking areas or buildings is foreseen. The site plan to be reviewed by the Town Planning Board will include site grading and drainage. All grading is subject to Town engineering review and is typical of the developed portions of a commercial site with minimal topographic relief.			
		5.3.3.9 Coordinated design for open space	· ·			
S 5.3.3.9.1 open space Applications must specify the entity to which dedicated open space will be transferred.			N/A; the proposed project does not include any dedications of land for public open space purposes. The 2.24 acres of retained naturally-vegetated land on-site will remain in private ownership, to be preserved under binding covenant.			
G 5.3.3.9.2	Clustering	Municipalities are strongly urged to maximize the use of the clustering technique where its usage would enhance adjacent open space or provide contiguous open space connections with adjacent open space parcels.	While the proposed project does not specifically incorporate clustering of the structures, these portion of the site to be developed has preferentially been located in the northern and central parts of the site, to minimize the area developed and thereby meet the CLUP Clearing Standard.			
G 5.3.3.9.3	Protection of dedicated open space	Proposed open space should be protected with covenants, conservation easements or dedications that specify proper restrictions on its use and contingencies for its future management.	The Applicant will participate in the preparation of a covenant to permanently protect the naturally-vegetated portion of the site, to remain under private ownership if required. Otherwise, the approved site plan is binding and will ensure preservation of the remaining natural areas on the site.			
		5.3.3.10 Agriculture and horticult	ture			
G 5.3.3.10.1 BMPs		Any existing, expanded, or new activity involving agriculture or horticulture in the CGA should comply with best management practices as defined herein and relevant requirements including local law. BMPs are, for purposes of this CLUP, the same practices stated in the most recent version of <i>Controlling Agricultural Nonpoint Source Water Pollution in New York State</i> (Bureau of Technical Services and Research, Division of Water, NYSDEC, 1991 and as later amended).	N/A; the project is commercial in nature, and does not include any agricultural or horticultural components.			
	5.3.3.11 Scenic, historic and cultural resources					
G 5.3.3.11.1	Cultural resource consideration	Development proposals should account for, review, and provide protection measures for: 1. Established recreational and educational trails and trail corridors, including but not limited to those trail corridors inventoried elsewhere in this Plan.	Site inspections have not revealed the existence of any recreational or educational trails or trail corridors, or active recreation sites, on the project site. The Archaeological Investigation prepared for the proposed project did not reveal the presence of any cultural resources on the subject site. In consideration of the above, it may be concluded that the proposed project will not impact any scenic,			
G 5.3.3.11.2 Development corridors; acti and undisturb William Floyd structures and application National Regist NYSHPO or the perimeter of to		Development proposals should note established recreation and educational trails and trail corridors; active recreation sites; scenic corridors, roads, vistas and viewpoints located in CRAs and undisturbed portions of the roadsides of the LIE, Sunrise Highway, County Road 111 and William Floyd Parkway; sites on the State or National Register of Historic Places, and historic structures and landmarks recognized by municipal law or statute, or listed on the State or National Registers of Historic Places; and sensitive archaeological areas as identified by the NYSHPO or the New York State Museum within a five hundred (500) foot radius of the outside perimeter of the project site, including any project parcels which are physically separate from the bulk of the proposed development area.	the presence of any cultural resources. Further, in Appendix C-2 , the NYS OPRHP confirms that no impact to cultural resources is anticipated from the proposed project.			

		A development proposal may be disapproved or altered if the local municipality determines that the development proposal, in its current form, may have a significant negative impact on any of the above resources.	
G 5.3.3.11.3	Protection of scenic and recreational resources	Protection measures for scenic and recreational resources should include, but not be limited to, retention of visually shielding natural buffers, replacement of degraded or removed natural visual buffers using native species, use of signs which are in keeping in both style and scale with the community character, and similar measures.	Project design will retain buffers of natural vegetation along the site's southern and western boundaries, which will reduce potential adverse visual impacts for observers in these directions. Due to the commercial nature of the project, the small size of the site, and the presence and proximity of other, complementary commercial sites to the north and the east, it is not feasible to retain buffers of natural vegetation in these directions as well. It is noteworthy that the decision to maintain natural buffers to the south and to the west (by placing the developed area in the northern portion of the property) reflects the applicant's decision to maximize protection of aesthetics for observers in these directions (where development is less prevalent), as opposed to the north and the east, where development already exists. The northern setback area will be landscaped appropriately, using species approved in the CLUP, Figure 5-2. The project's buildings and amenities will employ an attractive architectural treatment and complementary landscape design that would be consistent with the aesthetics of the area and congruent with the surrounding land uses.
G 5.3.3.11.4	Roadside design and management	Undisturbed portions of the roadside should be maintained in a manner that protects the scenic features of these areas. Clearing (including that for aisles, driveways, access and parking) is not precluded within these roadside areas, provided that appropriate buffers are maintained, and that manmade structures meet standards consistent with the character of the area.	The project's developed area has been located so as to provide for the maximum practicable retention of natural vegetation as buffers to the more sensitive receptors (i.e., to the south and to the west), recognizing that the existing pattern of development along NYS Route 25A (to the east and north) precludes protection of scenic resources along this commercial corridor. Finally, plantings of landscape species around and within the developed area will add to the buffering effect of natural vegetation, reducing the potential adverse impact on scenic resources and community character.
		5.3.3.12 Commercial and industrial dev	elopment
S 5.3.3.12.1	Commercial and industrial compliance with SCSC	All commercial and industrial development applications shall comply with the provisions of the SCSC as applied by the SCDHS, and all other applicable federal, state or local laws. Projects which require variances from the provisions of the SCSC shall meet all requirements of the SCDHS Board of Review in order to be deemed to have met the requirements of this standard.	The proposed project complies with all applicable requirements of the SCSC, including Articles 6, 7 and 12, as well as with all applicable requirements of the SCDHS. The project has been designed to comply with the applicable bulk and setback requirements of the Town Code for the CR Business zone.

APPENDIX C CULTURAL RESOURCES-RELATED DOCUMENTS



APPENDIX C-1 Archaeological Investigation, Phase I

Tracker Archaeological Services, Inc. July 2016



Phase I Archaeological Investigations at the Venezia Square subdivision Wading River, Town of Riverhead, Suffolk County, New York

July 2016

Prepared for: Nelson Pope & Voorhis, LLC, Melville, New York

> Alfred G. Cammisa, RPA Alexander Padilla (CAD)

MANAGEMENT SUMMARY

PR#: not known

Involved agencies: Town of Riverhead

Phase:

Phase IA & IB

Location:
Wading River
Town of Riverhead
Suffolk County

Survey Area:

Length: about 400 feet (122m) north-south Width: about 540 feet (165m) east-west.

Acres Surveyed: approximately 4.5 acres (1.8 hectares)

USGS:

Wading River, NY

Survey overview:

ST no. & interval: 79 ST's at 50-25 ft (15-7.5m) intervals

Size of freshly plowed area: na Surface survey transect interval: na

Results:

No prehistoric or historic remains

Strucutres:

No. Of buildings/structures/cemeteries in project area: none

No. Of buildings/structures/cemeteries adjacent to project area: 2

No. Of previously determined NR listed or eligible buildings/structures/cemeteries/districts: none

No. Of identified eligible buildings/structures/cemeteries/districts: none

Authors:

Alfred G. Cammisa, M.A./RPA Alexander Padilla, B.A. (CAD)

Date of Report:

Report completed July 2016

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INTRODUCTION

Between July 7 and 20, 2016, TRACKER Archaeology, Inc. conducted a Phase IA documentary study and Phase IB archaeological testing and reconnaissance at the proposed Venezia Square subdivision, in Wading River, Township of Riverhead, Suffolk County, New York.

The purpose of the documentary study was to determine the prehistoric and historic potential of the project area for the recovery of archaeological remains. This was accomplished by a review of the original and current environmental data, archaeological site files, other archival literature, maps, and documents.

A prehistoric and historic site file search was conducted utilizing the resources of the New York State Historic Preservation Office in Waterford, New York. Various historic and archaeology web sites were visited to review any pertinent site information.

The purpose of the Phase IB field survey was to determine the presence or absence of archaeological sites on the property. This was accomplished through subsurface testing and ground surface reconnaissance.

The project area (APE) consists of the about 4.5 acres from the approximate 6 acre property. The property is located on the south side of Port Jefferson-Riverhead Road (SR 25A-Sound Avenue) at the intersection of Dogwood Drive. It is bound to the north by Port Jefferson-Riverhead Road (SR 25A-Sound Avenue) and to the remaining sides by other private properties.

The study was conducted by TRACKER Archaeology, Inc. of Monroe, New York. Prehistoric and historic research was conducted by Alfred G. Cammisa, M.A.. Phase IB field work was conducted by field director, Edward Tassinari, B.A. and field technician Conner Winters, B.A. Report preparation by Alfred G. Cammisa and Alexander Padilla, B.A.

The work was performed for Nelson Pope & Voorhis, LLC, Melville, New York

ENVIRONMENT

Geology

The study area is located in the southeast portion of New York State, in the northeastern part of Suffolk County. This portion of New York lies in the Atlantic Coastal Plains Physiographic Province. The coastal plains slopes gently eastward and is actually a strip of recently emerged sea bottom. The soils in this region consist largely of sand, clay and marl (a mixture of clay, finely fragmented shell and calcite). The project area lies on an outwash plain south of the Harbor Hill Moraine (Schuberth 1968: cover map, 9, 184-186; Jensen and Soren 1974; Sirkin 1995: 45).

Soils and Topography

Soils in the study area consist primarily of:

Name	Soil Horizon Depth cm(in)	Color	Texture Inclusion	Slope %	Drainage	Landform
Haven loam	A 0-3in(0-7) B 3-10(7-25) B2 10-19(25-48)	10YR4/2 7.5YR4/4 7.5YR5/6	Lo	0-2	well	outwash plains
Riverhead	A=0-12 (0-30) B=12-27 (-69)	10YR4/3 7.5YR5/6	SaLo	0-3 & 3-8	well	moraines & outwash plains

(Warner 1975: map#26, pg. 71, 81-83).

Elevations on the property are approximately 110 feet above mean sea level.

Hydrology

The property is about 3928 feet southeast of Wading River and 3749 feet northwest of Deep Pond. Wading River drains north into the Long Island Sound.

Vegetation

The predominant forest community inhabiting the Atlantic Coastal Plain Physiographic province in this vicinity (Cape Cod to the Carolinas) was the Northern Pine-Oak Forest. Northern Pine-Oak Forests occur on sandy, or otherwise poor soils that are overly dry. These forests are maintained largely by the effects of frequent fires. The Northern Pine-Oak Forest is actually a unique part of the Oak-Hickory Forest that never quite becomes dominated by oak and hickories due to the combination of dry, sandy soil and resulting frequent fires. Were it not for the fires which the pine species have adapted to, these forests would slowly changes to mesic, dominated by oak, hickory and red maple. The Atlantic Coastal Plains are all Xeric (dry forest). They generally have lower species diversity than bottomland forests (Kricher 1988: 16-17, 65-66).

At the time of the Phase IB survey, the property consisted of a heavily overgrown wooded parcel along the road with an open weedy field with scattered hardwood and softwood further from the road.

PREHISTORIC POTENTIAL

A prehistoric site file search was conducted utilizing the resources of the New York State Historic Preservation Office - Field Services Bureau (NYSHPO). The site file search included a 1 mile radius around the study area. The following sites were recorded:

NYSM Site	NYSHPO Site	Distance from APE ft(m)	Site Type
	10302.000021	571 (174)	Kurovics Farm: Early Archaic to Transitional, Late Woodland with numerous points (from a pot-hunter collection-plowed fleids)
4880		3968 (1210)	ACP: large shell middens

NYSM Site	NYSHPO Site	Distance from APE ft(m)	Site Type
5587		1 mile	Split Rock: orient points., flakes, some 20th century

Indian trails were recorded in the vicinity. One appeared to parallel the Wading River south to the Peconic following the drainage ponds. Although the trails were recorded during the Contact Period, they undoubtedly existed prior to European settlement (Stone nd: map).

Assessing the known environmental and prehistoric archaeological data, we can summarize the following points.

- -The property is about 3928 feet southeast of Wading River and 3749 feet northwest of Deep Pond. Wading River drains north into the Long Island Sound.
- -The project area contains well drained soils on level to moderately sloping terrain.
- -Prehistoric sites have been recorded in the vicinity.
- -Indian trails were in the vicinity of the project property.

In our opinion, the study area has a higher than average potential for the recovery of prehistoric sites. The type of site encountered could be a small procurement/processing camp from the Archaic or Woodland prehistoric periods.

HISTORIC POTENTIAL

Contact Period (Seventeenth Century)

At the time of European contact and settlement, the study area was possibly occupied by the Pahquahkossit people. These people were probably a branch or village of the larger Yennocock tribe (Stone nd: map; Stone-Levine 1980: 161). Indian trails were recorded in the vicinity. Indian trails were recorded in the vicinity. One appeared to parallel the Wading River south to the Peconic following the drainage ponds (Stone nd:map).

Ross (1903:1010) mentions that Aquebogue was the site of an Indian village of considerable size with a strange temple and graves which were desecrated in 1879. Lower Aquebogue is situated east of Aquebogue proper and is now known as Jamesport (Bayles 1962:300).

Eighteenth Century

Native American wigwams were still being used and reported during this time. Wigwams were reported in the 1740's by Reverand Horton who may have lived in them, along the aforementioned Indianfoot trail, nearby the project area (see above). The term "wigwam" may refer to 1 dwelling or a small hamlet/village of dwellings.

Population growth was slow during this century with the addition of only 4 or 5 dwellings. Several mills were established along the Peconic River and included a grist mill, a fulling mill, and a saw mill and later a woolen factory and a planning and moulding mill. These were located at Upper Mills about a mile from the village and within the general vicinity of the study area (Bayles 1982: 11; Thompson 1918:275).

Cordwood, used as fuel, was an early thriving industry in the Town. A pine-oak forest, particularly on the sandy soils along the southern part of the Town, provided the natural resource (Thompson 1918: 273-274).

By the end of the Revolution, agriculture in Riverhead was at a low point. People went to Coram or Middle Island to buy grain (Bailey 1949: 200).

Nineteenth Century

By 1800 Riverhead farmers began to use "bunkers" (fish) as fertilizer to assist in soil fertility. Judge Woodhull first used wood ashes as fertilizer in 1825 which was later copied by other farmers. As a result of the use of fertilizers during this century, farm land in Riverhead proved more productive. Although there were less farms in the southern part of the Town, a prosperous community of farmers developed along the northern portion of Riverhead. Cranberries were raised in marshes which abounded in the western part of Town while small fruits, garden vegetables and root crops were more commonly grown in the eastern part of the town (Bayles 1982:1; Bailey 1949:200).

Before 1825 mail was delivered to Riverhead by horseback. By about 1825, mail was brought in by a 1 horse wagon and later on by stagecoach. The route was along the Middle Country Road from Jamaica. The Long Island Rail Road was operating by 1844 and at this time mail was transported via this means of transport (Bailey 1949:198)

The 1836 Colton map does not show Port Jefferson-Riverhead Road (SR 25A-Sound Avenue but does show Deep Pond. One possible structures is depicted near the project parcel (Figure 3).

The 1858 Chace map also does not show Port Jefferson-Riverhead Road (SR 25A-Sound Avenue but does show Deep Pond. No structures are nearby the project area (Figure 4).

The 1896 Hyde atlas appears to depict what could be the new road (25A/Sound Ave./Pt. JeffersonRiverhead Rd.) nearby but not finished. No structures are on or immediately adjacent to the project area (Figure 5).

Nearby Calverton was a farming community carved out of wetlands where cranberries were the main cash crop. This business hit its peak around the turn of the century (www.eastlongisland.com).

Twentieth Century

The 1903 USGS shows what appears to be a portion of the current Rt. 25A/Sound Ave./Port Jefferson-Riverhead Rd. However, no structures are near the project area (Figure 6).

Riverhead village's development was gradual. By the early part of this century the village had approximately 70 dwellings (Thompson 1918: 275).

An historic site file search was conducted at the New York State Historic Preservation Office. The site file search included 1 mile radius around the project area. The following historic sites were recorded:

NYSM Site	NYSHPO Site	Distance from APE ft(m)	Site Type
	10302.000023	796 (243)	FT A Kurovics Homestead & Farm Buildings Site: field stone foundation w/ concrete, Nassau Brick chimney flue, cellar beneath main house section, ca 1930

Assessing the known environmental and historic data, we can summarize the following points:

- -The property is about 3928 feet southeast of Wading River and 3749 feet northwest of Deep Pond. Wading River drains north into the Long Island Sound.
- -The project area contains well drained soils on level to moderately sloping terrain.
- -Indian trails were near the project property. Contact Period wigwams/villages were situated in the vicinity along the trail.
- -An historic site was reported nearby the project area.
- -No historic map documented structures were on or adjacent to the project area.

In our opinion, the study area has a moderate potential for the recovery of aboriginal historic sites. There is a low potential for European-American sites.

FIELD METHODS

Walkover-Reconnaissance

Any exposed ground surfaces (70 to 100 percent visibility) were subjected to a close quarters walkover, at 3 to 5 meter intervals, to observe for artifacts. Covered ground terrain was reconnoitered at about 15-7.5 meter (50ft), or less, intervals to observe for any above ground features, such as berms, depression, or rock configurations, which could be evidence for a prehistoric or historic site. Photographs were taken of the project area.

Shovel Testing

Shovel tests (ST's) were excavated at about 15 to 7.5 meter (50ft) intervals. Each ST measured about 30 to 40 cm. in diameter and was dug into the underlying subsoil (B horizon) 10 to 20 cm. when possible. All soils were screened through 1/4 inch wire mesh and observed for artifacts. Shovel tests were flagged in the field. All ST's were mapped on the project area map at this time.

Soil stratigraphy was recorded according to texture and color. Soil color was matched against the Munsell color chart for soils. Notes were transcribed in a notebook and on pre-printed field forms.

FIELD RESULTS

Field testing of the project area included the excavation of 79 ST's at 50 to 25 foot intervals. No prehistoric artifacts or features were encountered. No historic artifacts or features were encountered.

Stratigraphy

Stratigraphy across the project area included the following:

- -A/O horizon 2 to 10 cm. of leaf litter, root mat, and humus.
- -A horizon 3 to 8 cm. thick of 10YR 4/3 brown loamy sand.
- -B horizon 10 to 20 cm. dug into of 10YR5/4 yellow brown loamy sand.

CONCLUSIONS AND RECOMMENDATIONS

Based upon topographic characteristics and distance to known prehistoric sites and Indian trails, the property was assessed as having a higher than average potential for encountering prehistoric sites.

Based upon topographic characteristics and distance to historic map documented structures, reported wigwams, and Indian trails, the property was assessed as having a moderate potential for encountering historic aboriginal sites.

During the course of the Phase IB archaeological field survey, 79 ST's were excavated. No prehistoric or historic sites were encountered. No historic sites were encountered. No further work is recommended.

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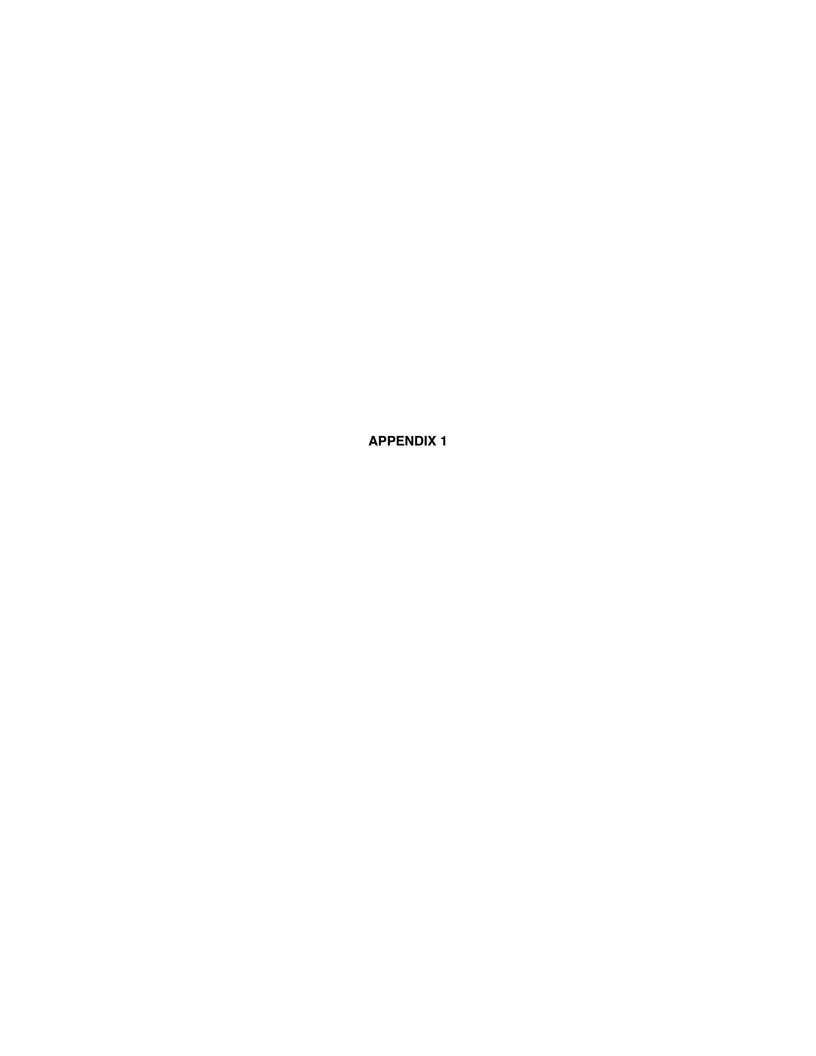
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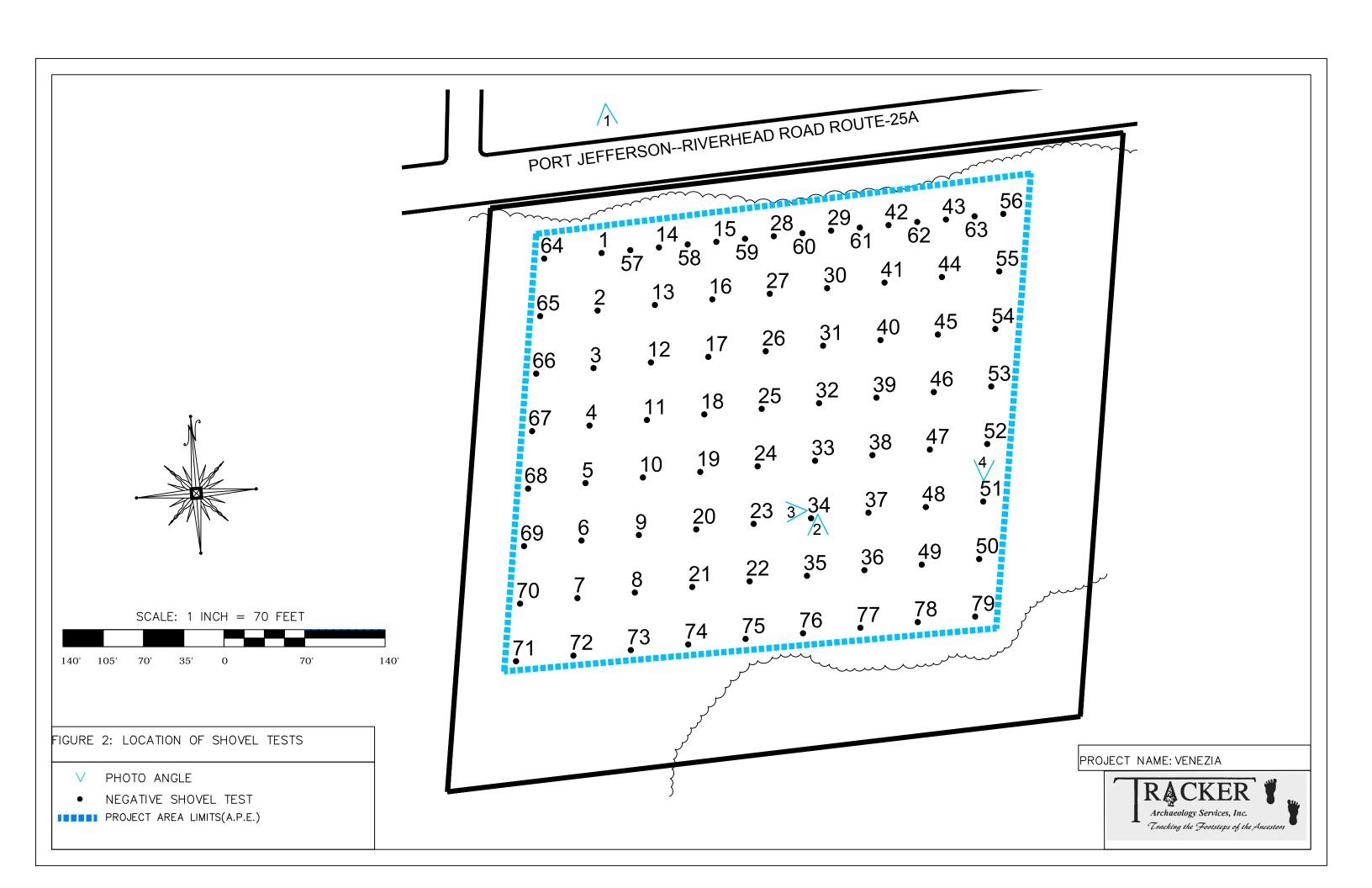
United States Geological Survey

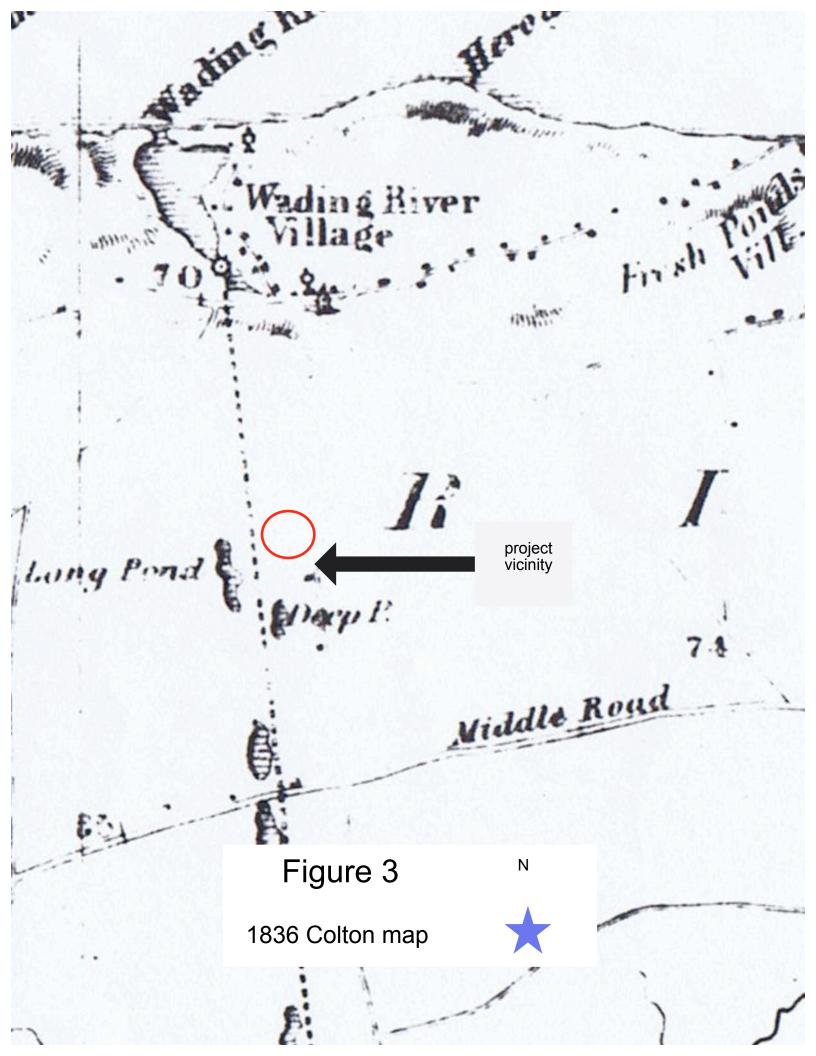
1956 Riverhead, New York quadrangle, 7.5 minute series map.

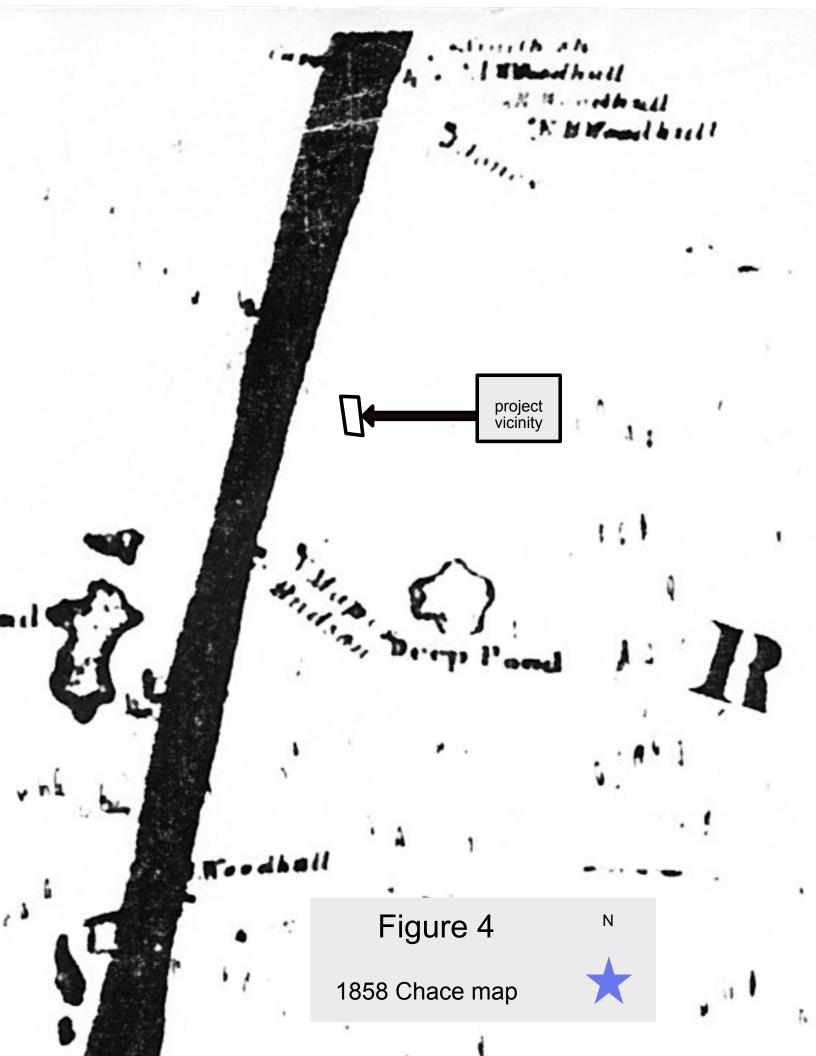
1903 *Moriches, NY* quadrangle, 15 minute series map.

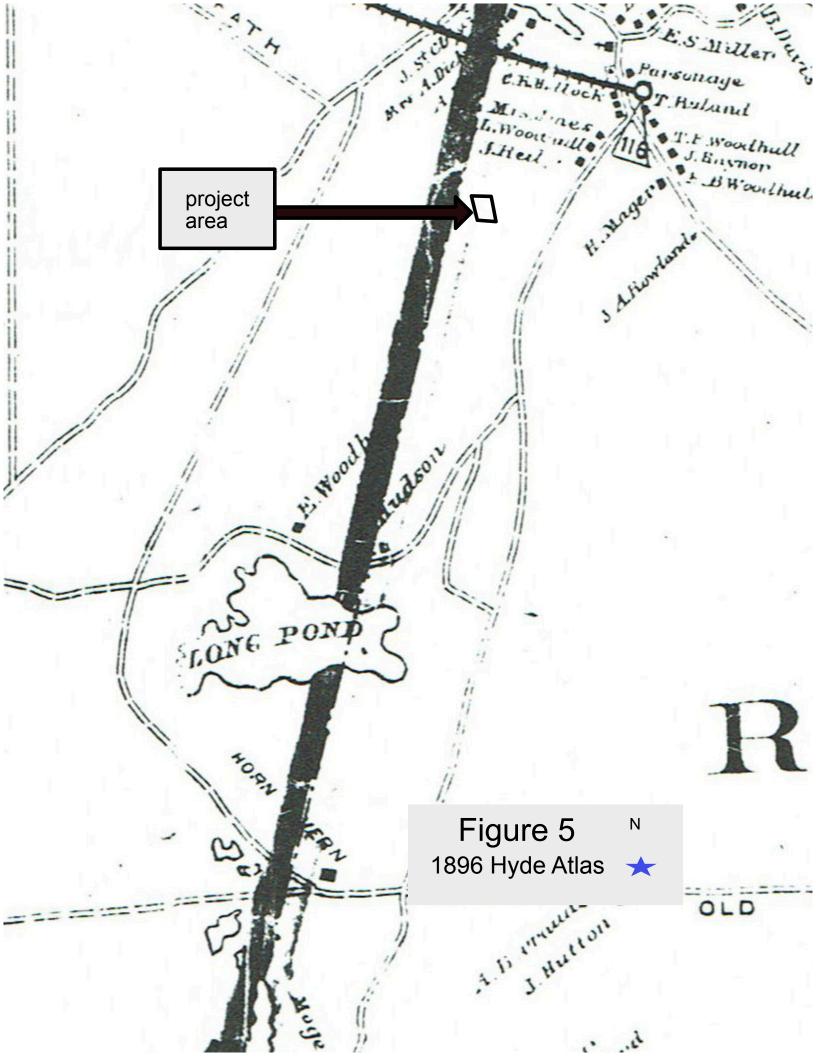


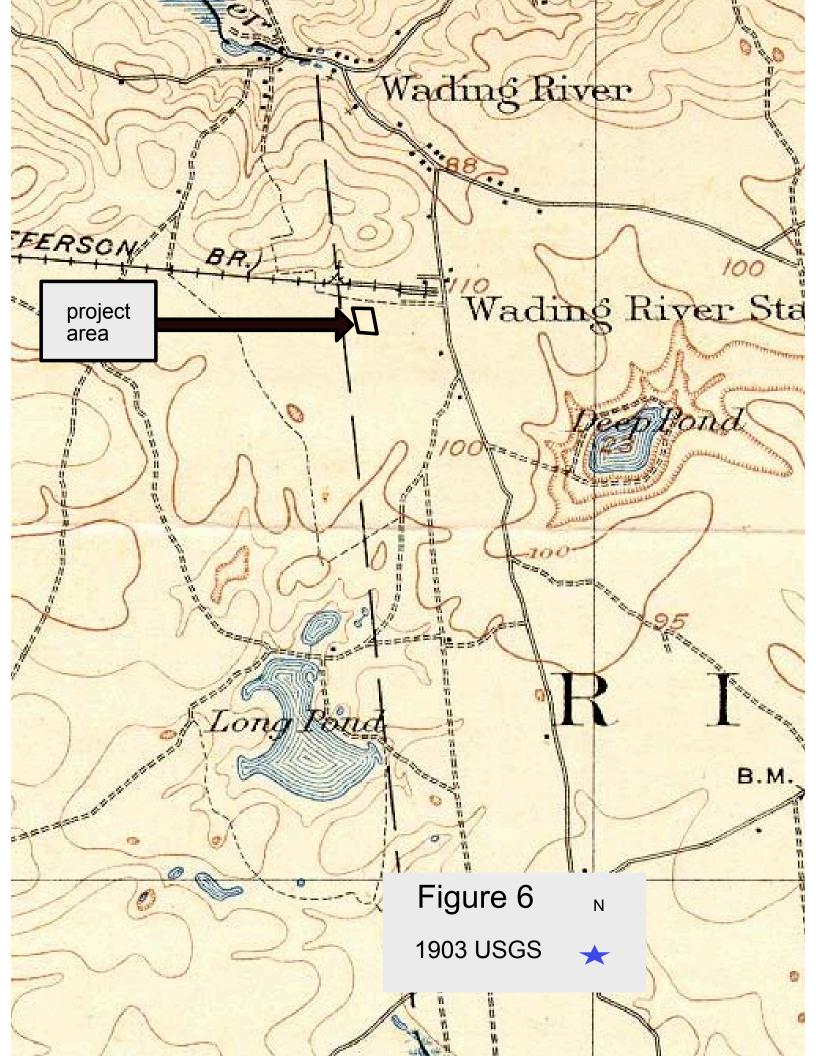


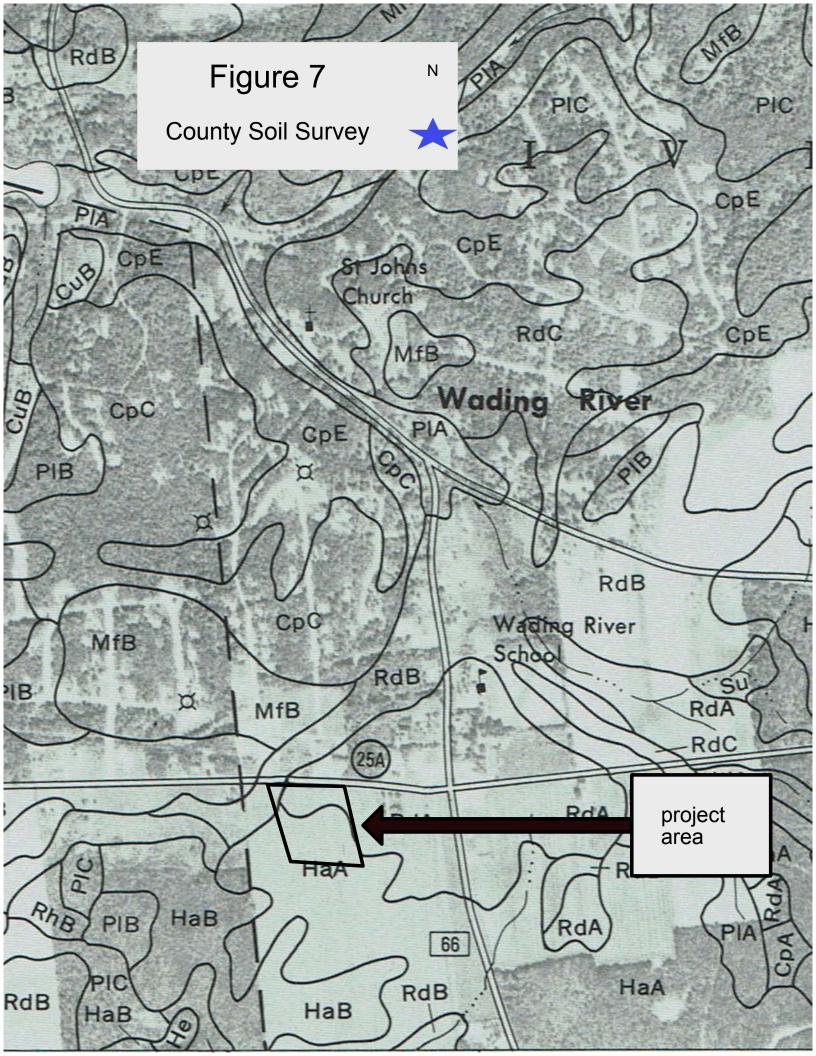






















SHOVEL TESTS

STP 1	LV 1 2 3	DEPTH(CM) 0-5 5-13 13-23	TEXTURE rootmat,leaves,humus LoSa LoSa	COLOR 10YR4/3 10YR5/4	HOR A/O A B	COMMENT NCM NCM NCM
2	1 2 3	0-4 4-12 12-23	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
3	1 2 3	0-5 5-13 13-23	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
4	1 2 3	0-6 6-14 14-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
5	1 2 3	0-4 4-10 10-30	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
6	1 2 3	0-8 8-16 16-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
7	1 2 3	0-9 9-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
8	1 2 3	0-11 11-18 18-38	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
9	1 2 3	0-9 9-12 12-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
10	1 2 3	0-10 10-14 14-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
11	1 2 3	0-7 7-14 14-34	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
12	1 2 3	0-10 10-18 18-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
13	1 2 3	0-8 8-16 16-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM

14	1 2 3	0-7 7-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
15	1 2 3	0-7 7-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
16	1 2 3	0-8 8-12 22-32	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
17	1 2 3	0-7 7-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
18	1 2 3	0-9 9-14 14-34	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
19	1 2 3	0-7 7-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
20	1 2 3	0-7 7-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
21	1 2 3	0-3 3-23 23-34	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
22	1 2 3	0-7 7-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
23	1 2 3	0-6 6-11 11-31	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
24	1 2 3	0-7 7-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
25	1 2 3	0-7 7-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
26	1 2 3	0-5 5-13 23-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM

27	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
28	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
29	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
30	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
31	1 2 3	0-8 8-16 16-36	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
32	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
33	1 2 3	0-5 5-17 17-38	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
34	1 2 3	0-6 6-14 14-34	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
35	1 2 3	0-8 8-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
36	1 2 3	0-8 8-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
37	1 2 3	0-8 8-13 13-31	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
38	1 2 3	0-9 9-17 17-30	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
39	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM

40	1 2 3	0-8 8-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
41	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
42	1 2 3	0-6 6-10 10-30	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
43	1 2 3	0-9 9-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
44	1 2 3	0-8 8-16 16-31	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
45	1 2 3	0-6 6-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
46	1 2 3	0-6 6-12 12-32	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
47	1 2 3	0-7 7-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
48	1 2 3	0-8 8-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
49	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
50	1 2 3	0-6 6-15 15-30	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
51	1 2 3	0-8 8-15 15-30	rootmat,leaves,humus, LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
52	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM

53	1 2 3	0-6 6-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
54	1 2 3	0-9 9-16 16-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
55	1 2 3	0-9 9-11 11-31	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
56	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
57	1 2 3	0-10 10-19 19-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
58	1 2 3	0-8 8-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
59	1 2 3	0-7 7-11 11-22	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
60	1 2 3	0-8 8-12 12-32	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
61	1 2 3	0-7 7-14 14-32	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
62	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
63	1 2 3	0-9 9-17 17-37	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
64	1 2 3	0-7 7-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
65	1 2 3	0-8 8-12 12-32	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
66	1 2	0-6 6-15	rootmat,leaves,humus LoSa	10YR4/3	A/O A	NCM NCM

	3	15-35	LoSa	10YR5/4	В	NCM
67	1 2 3	0-8 8-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
68	1 2 3	0-9 9-16 16-30	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
69	1 2 3	0-9 9-16 16-30	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
70	1 2 3	0-8 8-11 11-31	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
71	1 2 3	0-6 6-15 15-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
72	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
73	1 2 3	0-9 9-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
74	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
75	1 2 3	0-6 6-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
76	1 2 3	0-9 9-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
77	1 2 3	0-6 6-14 14-34	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
78	1 2 3	0-6 6-13 13-33	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM
79	1 2 3	0-6 6-15 15-35	rootmat,leaves,humus LoSa LoSa	10YR4/3 10YR5/4	A/O A B	NCM NCM NCM

APPENDIX C-2 No-Effect Letter

SHPO February 15, 2017





ANDREW M. CUOMO

ROSE HARVEY

Governor

Commissioner

February 15, 2017

Mr. Phillip Malicki Senior Environmental Planner NP&V, LLC 572 Walt Whitman Road Melville, NY 11747

Re: DEC

Venezia Square Commercial Development

Route 25A, Riverhead, NY

17PR00875

Dear Mr. Malicki:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources.

We have reviewed the report entitled "Phase I Archaeological Investigation at the Venezia Subdivision, Wading Rover, Town of Riverhead, Suffolk County, New York" (July 2016). No archaeological resources were identified and no additional archaeological work is necessary.

We have no concerns regarding the project's potential to impact historic architectural resources. Therefore, it is OPRHP's opinion that the project will have No Impact on archaeological and/or historic resources listed in or eligible for the New York State and National Registers of Historic Places.

If further correspondence is required regarding this project, please refer to the OPRHP Project Review (PR) number noted above. If you have any questions, I can be reached at 518-268-2186.

Sincerely,

Tim Lloyd, Ph.D., RPA Scientist - Archaeology

timothy.lloyd@parks.ny.gov

via e-mail only

APPENDIX D NYS NATURAL HERITAGE PROGRAM CORRESPONDENCE



From: <u>Hannah Emouna</u>

To: <u>NaturalHeritage@dec.ny.gov</u>

Cc: <u>Phil Malicki</u>

Subject: Information Request

Date: Wednesday, July 27, 2016 1:21:45 PM

To Whom it May Concern,

My firm has been retained by the owners of the referenced property to prepare an Expanded Environmental Assessment Form for a proposed commercial development on a vacant property identified as SCTM # 0600-73-1-1.4 & 1.16 through 1.19. The site of the proposed project is located on the south side of Sound Avenue (New York State [NYS] Route 25A), approximately 780 feet west of Wading River Road, in the hamlet of Wading River, Suffolk County, New York (40.943480,-72.845913).

It would be beneficial to consult the Natural heritage Program files for any information you may have regarding the unique habitats, and/or species of vegetation and wildlife. Please provide any information you may have on this specific site or other unique ecological features within the vicinity. Your attention to this request would be greatly appreciated. Please do not hesitate to call if you have any questions regarding this correspondence. Thank you.

Hannah Emouna

Environmental Scientist

NELSON, POPE & VOORHIS, LLC

ENVIRONMENTAL • PLANNING • CONSULTING 572 Walt Whitman Road Melville, NY 11747

ph: (631) 427-5665 ext. 220 fax: (631) 427-5620

hemouna@nelsonpopevoorhis.com www.nelsonpopevoorhis.com

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Division of Fish, Wildlife & Marine Resources New York Natural Heritage Program

625 Broadway, 5th Floor, Albany, New York 12233-4757

Phone: (518) 402-8935 • Fax: (518) 402-8925

Website: www.dec.ny.gov



September 01, 2016

Hannah Emouna Nelson, Pope & Voorhis, LLC 572 Walt Whitman Road Melville, NY 11747

Re: Commercial development, south side of Sound Avenue (NYS Route 25A), Wading River Town/City: Riverhead.

County: Suffolk.

Dear Hannah Emouna:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur, or may occur, on your site or in the immediate vicinity of your site.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Our database is continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,

Andrea Chaloux

Environmental Review Specialist New York Natural Heritage Program

andrea Chaloux



The following state-listed animals have been documented in the vicinity of your project site.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

For information about any permit considerations for your project, contact the Permits staff at the NYSDEC Region 1 Office. For information about potential impacts of your project on these species, and how to avoid, minimize, or mitigate any impacts, contact the Wildlife Manager.

A listing of Regional Offices is at http://www.dec.ny.gov/about/558.html.

The following species have been documented within 0.3 mile of the project site.

COMMON NAME SCIENTIFIC NAME NY STATE LISTING FEDERAL LISTING

Amphibians

Tiger Salamander Ambystoma tigrinum Endangered 8317

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the listed animals in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, and from NYSDEC at www.dec.ny.gov/animals/7494.html.

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Venezia Square Site Plan Application Expanded EAF

APPENDIX E UPDATED TRAFFIC IMPACT STUDY

Schneider Engineering, PLLC December 2018





VENEZIA SQUARE II

UPDATED TRAFFIC IMPACT STUDY

December 2018

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1.

Introduction

This updated Traffic Impact Study (TIS) was prepared to examine the potential impacts from traffic associated with Venezia Square, a proposed shopping center, at intersections NYS Route 25A with Dogwood Drive and NYS Route 25A with Wading River Manor Road. This updated TIS was expanded to reflect seasonal traffic counts for the peak summer/autumn season and also include the effects of all projects identified by the Planning Departments at the Towns of Brookhaven and Riverhead containing new development or the expansion of existing developments within the vicinity of Venezia Square. These projects are listed as follows:

- Central Square
- ➤ 6333 Reality Group
- ➤ 6336 Route 25A
- ➤ Hamlet Professional Offices
- ➤ Real Life Church of Wading River

The proposed development is a 37,000 SF shopping center consisting of a bank with three drive thru windows (4,000 SF), three retail buildings (10,000 SF for two of those buildings and 7,000 SF for one), two fast food restaurants (1,500 SF each), and an 84-seat sit-down restaurant (3,000 SF). According to its use, it is classified as a Shopping Center (Land Use 820) by ITE¹ in its <u>Trip Generation Manual</u>². Site access will be provided by a full access signalized driveway located directly across from Dogwood Drive and a right-turn out only driveway at the eastern end of the parcel.

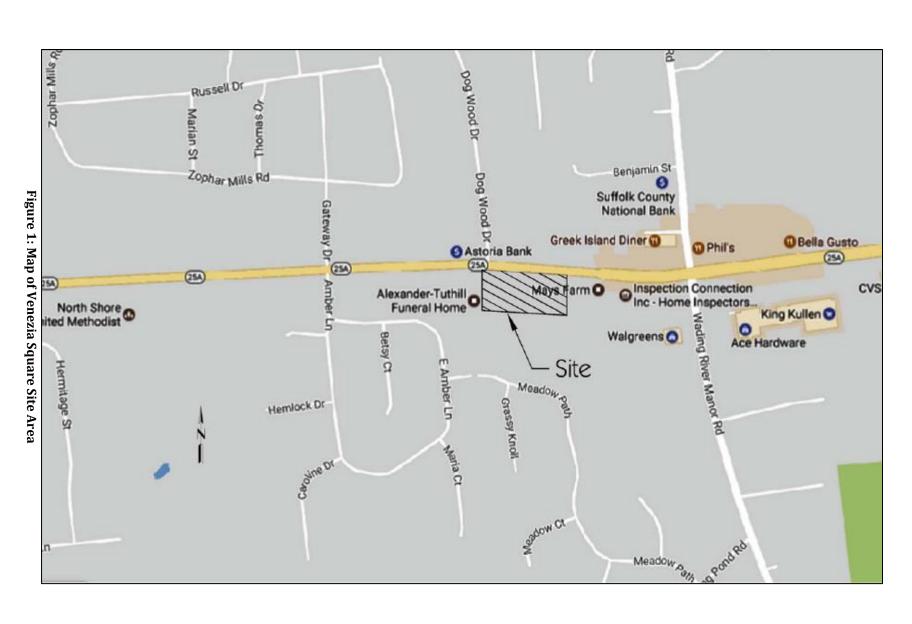
The proposed development is located in the Town of Riverhead, Suffolk County, New York, and is situated on the south side of NYS Route 25A (Port Jefferson-Riverhead Road), opposing Dogwood Drive. It is east of, and adjacent to, the Alexander-Rothwell Funeral Home. The site location is shown in Figure 1, Figure 2, and Figure 3. The site consists of five vacant lots located along NYS Route 25A. Combined, the 5-lot parcel contains 6.3 acres. The five lots have 552.5 feet of frontage on NYS Route 25A.

² Trip Generation Manual, 9th Edition, Institute of Transportation Engineers



¹ Institute of Transportation Engineers





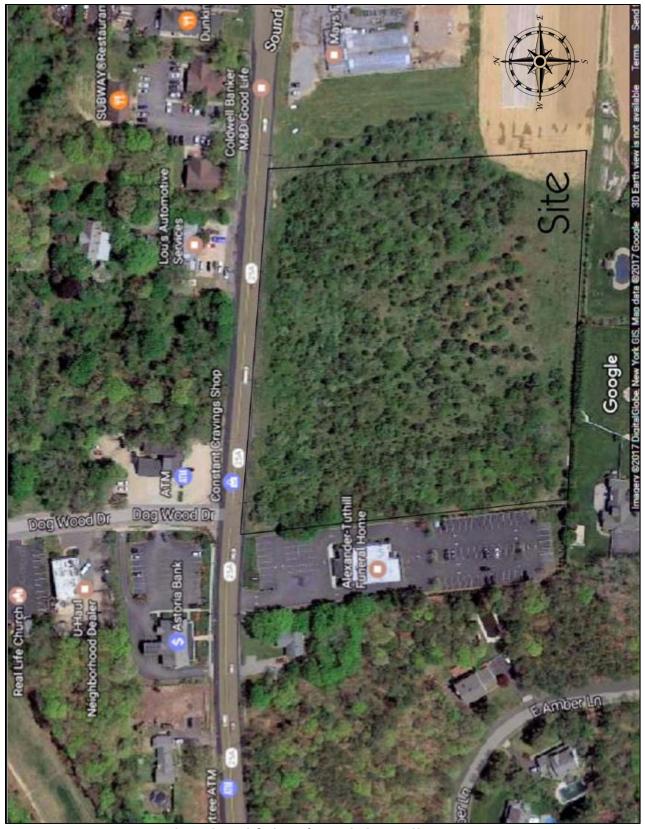
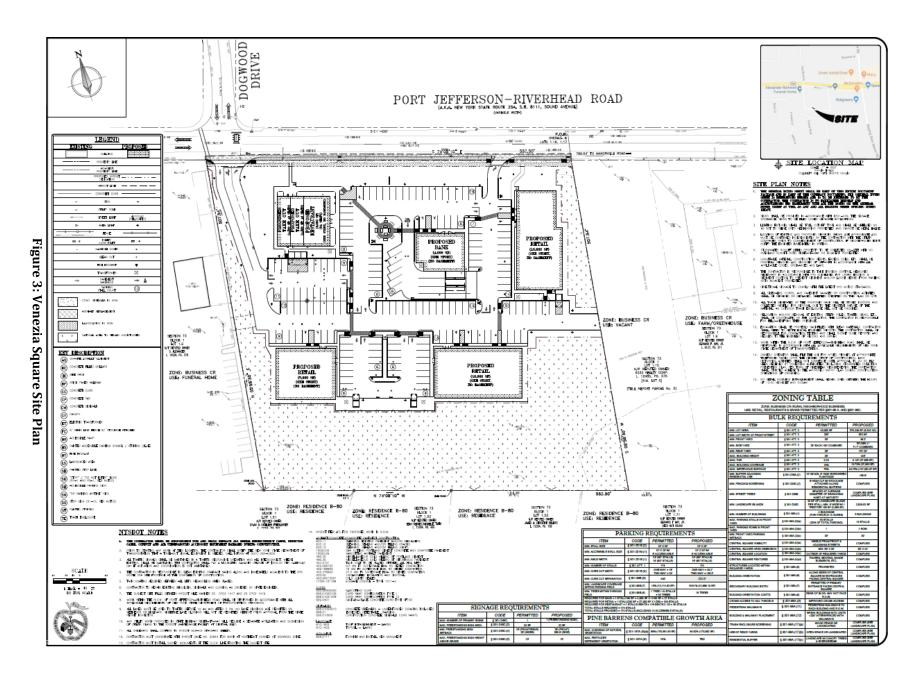


Figure 2: Aerial View of Venezia Square Site Area







2.

Study Approach and Methodology

This study was prepared following the recommended practices of the nationwide standard ITE and New York State Department of Transportation (NYSDOT) to collect field data on roadway and traffic conditions, estimate and assign traffic volumes for the new facility, assess the potential roadway impacts of the fully built development at an Estimated Time of Completion (ETC) of 2020, and review accident data for the most recent three-year period for the study area.

Turning movement counts were collected on Thursday, October 18, 2018 and Sunday, October 28, 2018 at the study intersections of NYS 25A with Dogwood Drive and Wading River Manor Road to serve as a baseline for the projection of future traffic conditions. Sunday counts were taken because of very poor weather conditions on Saturday, and will reflect as Saturday peak volumes. We also took the Sunday counts because we wanted to complete our counts before the Halloween peak period. The difference effects are expected to be negligible to our analysis due to the urban nature of the area. As seasonal peak traffic occurs in summer and autumn, our counts should accurately reflect peak traffic scenarios but will have applied a seasonal peak factor to account for the summer months. This data was developed into Existing, No Build, and, when coupled with site trip generation volumes, Build condition traffic volumes which were used to perform intersection capacity analyses.

Highway capacity analyses were performed utilizing HCS7, version 7.5. The software application was developed by the University of Florida in conjunction with the Federal Highway Administration. The software faithfully duplicates the methods and computations found in the Highway Capacity Manual, Sixth Edition: A Guide for Multimodal Mobility *Analysis* published by the Transportation Research Board. This manual is the industry standard by which all highway analysis is done.

The unsignalized module of HCS7 was used to determine the LOS of NYS Route 25A with Dogwood Drive for existing conditions, NYS Route 25A with Dogwood Drive for future traffic conditions without the proposed development, and for the right-turn only exit of the proposed site for future traffic conditions. The signalized module of HCS7 was used to determine the LOS of NYS Route 25A with Wading River Manor Road for all conditions and NYS Route 25A with Dogwood Drive for future traffic conditions when it is signalized in conjunction with the construction of the proposed Venezia Square development.

Table 1 presents the LOS criteria for signalized intersections. Table 2 presents the LOS criteria for the unsignalized intersections. Caution should be used in the interpretation of these criteria. They are stated in general terms, without specific numeric values. It is therefore not possible to compare an unsignalized intersection with a signalized one in terms of specific delay values without collecting delay data directly at the site.



Table 1: Level of Service Criteria for Signalized Intersections

Level of Service	Average Control Delay (seconds/vehicle)	General Description
A	≤10	Free flow
В	>10 - 20	Stable flow (slight delays)
С	>20 - 35	Stable flow (acceptable delays)
D	>35 - 55	Approaching unstable flow (tolerable delay, occasionally wait through more than one signal cycle before proceeding)
E	>55 - 80	Unstable flow (intolerable delay)
F	>80	Forced flow (congested and queues fail to clear)

Table 2: Level of Service Criteria for *Unsignalized* Intersections

Level of Service	Average Control Delay (seconds/vehicle)
A	0 - 10
В	>10 - 15
С	>15 - 25
D	>25 - 35
E	>35 - 50
F	>50

The following more explicitly describes the definitions used for LOS at signalized intersections, the accepted industry standard method in determining intersectional effectiveness:

- Level of Service A: Describes operations with very low control delay, i.e., less than 10 seconds per vehicle. This level of service occurs when progression is extremely favorable, and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
- **Level of Service B**: Describes operations with control delay in the range of 10-20 seconds per vehicle. This generally occurs with good progression, short cycle lengths, or both. More vehicles stop than for LOS A, causing higher levels of average delay.
- **Level of Service C**: Describes operations with delay in the range of 20-35 seconds per vehicle. These higher delays may result from fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.
- ❖ Level of Service D: Describes operations with delay in the range of 35-55 seconds per vehicle. At level D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high v/c³ ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
- Level of Service E: Describes operations with delay in the range of 55-80 seconds per vehicle. This is considered by many agencies to be the limit of the acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent occurrences.
- ❖ Level of Service F: Describes operations with delay in excess of 80 seconds per vehicle. This is considered to be unacceptable to most drivers. This condition often occurs with oversaturation, i.e. when arrival flow rates exceed the capacity of the intersection. It may also occur at high v/c ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.

³ Volume to Capacity





Highway Capacity Analysis: Existing Conditions

3.1 Existing Conditions

The area surrounding the subject development site contains a mixture of commercial uses and undeveloped land parcels. The western perimeter of the site borders Alexander Rothwell Funeral Home. The eastern and southern perimeter of the site borders on undeveloped land parcels. The northern perimeter of the site borders NYS Route 25A.

NYS Route 25A is a two-lane state highway (one lane in each direction) serving eastbound and westbound traffic. It is classified as a Principal Urban Arterial (FC-14) and is under the jurisdiction of the NYSDOT. At and near the proposed site, the lanes on the highway are approximately 12 feet in width in each direction with paved shoulders at approximately 8 feet in width. The posted speed limit in the vicinity of the site is 45 mph for both directions.

Dogwood Drive, on the north side of NYS Route 25A and across from the proposed site, is a two-lane local roadway serving northbound and southbound traffic that forms the northern leg of a three-legged T-intersection with NYS Route 25A. It intersects NYS Route 25A with a slight skew and traffic is STOP controlled on the side street. Traffic on NYS Route 25A at that intersection is not controlled. While it is not marked as a two-lane approach, the roadway is flared at the intersection and allows ample room for the queuing of vehicles turning left and right. The roadway serves commercial and residential properties located near NYS Route 25A. It is under Town of Riverhead Jurisdiction. The road is approximately 30 feet wide although there is no centerline marking installed. Sidewalk is present only on the departure lane adjacent to the Astoria Bank. The posted speed limit is 30 mph for both directions.

The intersection of NYS Route 25A and Wading River Manor Road is a four-way signalized intersection, with NYS Route 25A running east and west and Wading River Manor Road running north and south. The speed limit on Wading River Manor Road is 30 mph. Each of the four approaches has an exclusive left-turn lane and a shared through and right turn lane. Surrounding the intersection are commercial-use buildings such as McDonald's, Speedway, BNB Bank, Greek Island Diner, Little Bay Realty, Phil's Restaurant, and more along NYS Route 25A. The intersection is controlled by a multiphase semi-actuated uncoordinated signal with the following phasing:

- Eastbound and westbound protected left turns
- East-west through movements with permitted left turns
- > North-south protected left turns
- ➤ North-south through movements with permitted left turns



3.2 2018 Existing Conditions Traffic Volumes

Peak periods for the proposed site, as it is classified as a Shopping Center (Land Use 820) by ITE in its Trip Generation Manual, are expected to be 11:00AM-1:00PM and 4:00PM-6:00PM during the week and 11:00AM-2:00PM on weekends. Turning movement counts were collected for these times on dates Thursday, October 18, 2018 and Sunday, October 28, 2018 at the intersections of NYS Route 25A with Dogwood Drive and Wading River Manor Road. The Sunday counts were taken because of very poor weather conditions on Saturday and will be used as Saturday peak volumes. The difference effects are expected to be negligible to our analysis due to the urban nature of the area. The turning movement count data are presented in Appendix A.

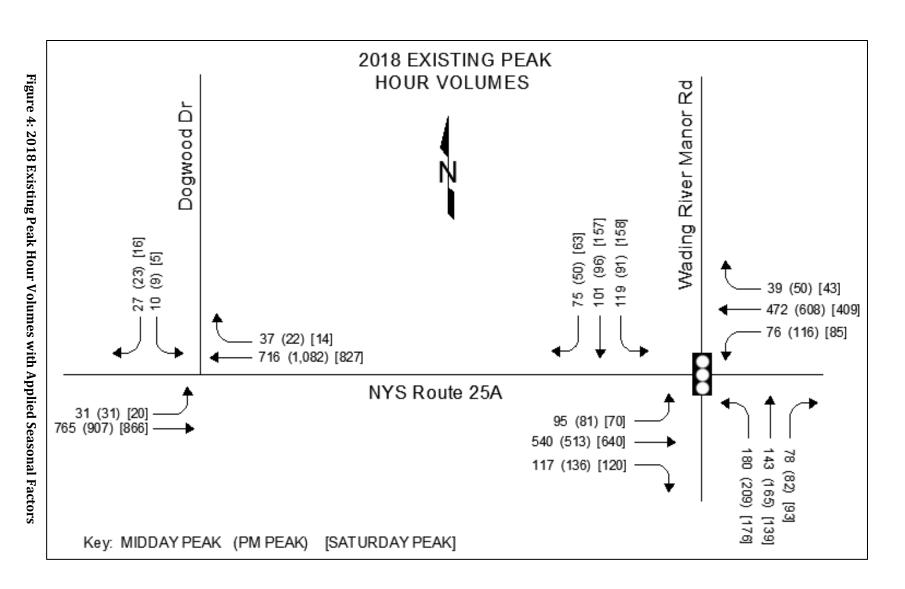
Since the traffic counts were conducted in October, a seasonal factor was applied to the recorded peak hour traffic to account for the summer months when traffic in the area increases. A factor of 1.23 was applied to the midday and PM peak hour traffic, and a factor of 1.19 was applied to the Saturday peak hour traffic. The 2017 NYSDOT seasonal adjustment factors that were used can be found in Appendix B.

At the intersection of NYS 25A and Dogwood Drive, the traffic volume data revealed that the midday peak period occurred at 12:30PM, the PM peak period occurred at 5:30PM, and the Saturday peak period occurred at 1:30PM. The peak hour traffic volumes for NYS 25A and Dogwood Drive are depicted in Figure 4.

At the intersection of NYS Route 25A and Wading River Manor Road, the traffic volume data revealed that the midday peak period occurred at 12:45PM, the PM peak period occurred at 5:15PM, and the Saturday peak period occurred at 12:30PM. The peak hour traffic volumes for NYS 25A and Wading River Manor Road are also depicted in Figure 4.







3.3 2018 Existing Conditions Capacity Analysis

The existing conditions capacity analysis results are illustrated in Table 3 for intersections NYS Route 25A and Dogwood Drive and NYS Route 25A and Wading River Manor Road. The capacity analysis reports for the existing conditions are presented in Appendix C.

Table 3: 2018 Existing Conditions Capacity Analysis

		Ţ	Midda	y	PM		Saturda	ay
Intersection	Movement	Lane Group	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
NYS Route 25A & Dogwood Drive	SB	RL	23.8	С	48.6	Е	25.5	D
		L	10.4	В	13.6	В	12.4	В
	EB	TR	18.8	В	19.8	В	28.2	С
		Approach	17.8	В	19.1	В	26.8	С
		L	13.6	В	13.3	В	19.8	В
	WB	TR	16.0	В	18.8	В	17.3	В
NYS Route 25A & Wading		Approach	15.7	В	18.0	В	17.7	В
River Manor Road		L	45.7	D	48.4	D	44.1	D
	NB	TR	56.2	Е	57.0	E	61.0	E
		Approach	51.5	D	53.1	D	53.7	D
		L	43.9	D	44.3	D	46.7	D
	SB	TR	54.7	D	52.6	D	55.6	Е
		Approach	50.4	D	49.4	D	51.9	D
	Overall		28.5	C	29.0	C	34.0	С





Highway Capacity Analysis: Future No Build Conditions

4.1 2020 No Build Conditions

In order to examine the effects of the proposed development on the surrounding roadway network, first the existing condition traffic volumes must be projected for the year in which the project is anticipated to be completed. Based on the NYSDOT Long Island Transportation Plan (LITP), the traffic volumes were projected by applying an annual growth rate of 1.7% annually to account for normal background traffic growth. Therefore, a total growth rate of 3.4% was utilized (1.7% x 2 years) for developing the background growth for the estimated time of completion (ETC) of Venezia Square in 2020.

In addition to normal background growth, we examined traffic associated with other nearby projects presently under development or planned for the near future. The Planning Departments at the Towns of Brookhaven and Riverhead identified several projects containing new development or the expansion of existing developments. The projects and their descriptions are listed as follows:

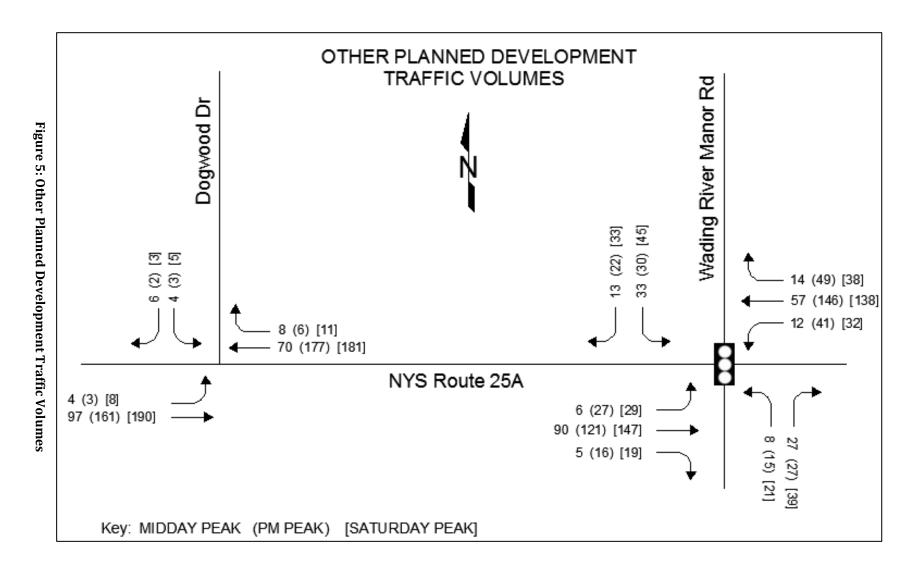
- > Central Square is located along the south side of Route 25A, approximately a quarter mile to the east of the intersection of Wading River Manor Road and Route 25A. The proposed development is comprised of a restaurant, 14,076 SF of retail space, a 4,250 SF bank with drive thru and 28,962 SF of professional office space is estimated to generate 318 trips (141 Entering, 177 Exiting) during the midday peak hour, 318 trips (141 Entering, 177 Exiting) during the PM peak hour, and 305 trips (162 Entering, 143 Exiting) during the Saturday midday peak hour.
- **6333 Realty Group** is located adjoining Venezia Square on the east. This proposed development comprises of 6,960 SF of Medical Offices and 1,120 SF of General Office and is estimated to generate 113 trips (57 Entering, 56 Exiting) during the midday peak hour, 160 trips (77 Entering, 83 Exiting) during the PM peak hour, and 208 trips (108 Entering, 100 Exiting) during the Saturday midday peak
- **6336 Route 25A** is located on the northeast corner of Route 25A and Dogwood Drive. This proposed development includes a proposed 1,212 SF addition to an existing medical office building for the purpose of providing a 15-seat take-out restaurant. The proposed take-out restaurant is estimated to generate 23 trips (12 Entering, 11 Exiting) during the midday peak hour, 25 trips (12 Entering, 13 Exiting) during the PM peak hour, and 36 trips (18 Entering, 18 Exiting) during the Saturday midday peak hour.
- **Hamlet Professional Offices** is located on the north side of NYS Route 25A, east of Wading River Manor Road. This proposed development will consist of 5 office buildings for use as professional offices with a gross floor area of 31,181 SF. The proposed development is expected to generate 75 trips (59 Entering, 16 Exiting) during the midday peak hour, 112 trips (31 Entering, 81 Exiting) during the PM peak hour, and 114 trips (65 Entering, 49 Exiting) during the Saturday midday peak
- **Real Life Church of Wading River** is located approximately 315 FT north of the intersection of Route 25A and Dogwood Drive. The proposed development includes a proposed 2.952 SF expansion to the existing 2,533 SF church, which will include approximately 1,220 SF of office area in the basement of the church, 1,323 SF of meeting rooms in the basement, and 409 SF of sanctuary space to include 205 seats. The proposed new church space is expected to generate 27 trips (14 Entering, 13 Exiting) during the midday peak hour, 12 trips (7 Entering, 5 Exiting) during the PM peak hour, and 31 trips (22 Entering, 9 Exiting) during the Saturday midday peak hour.



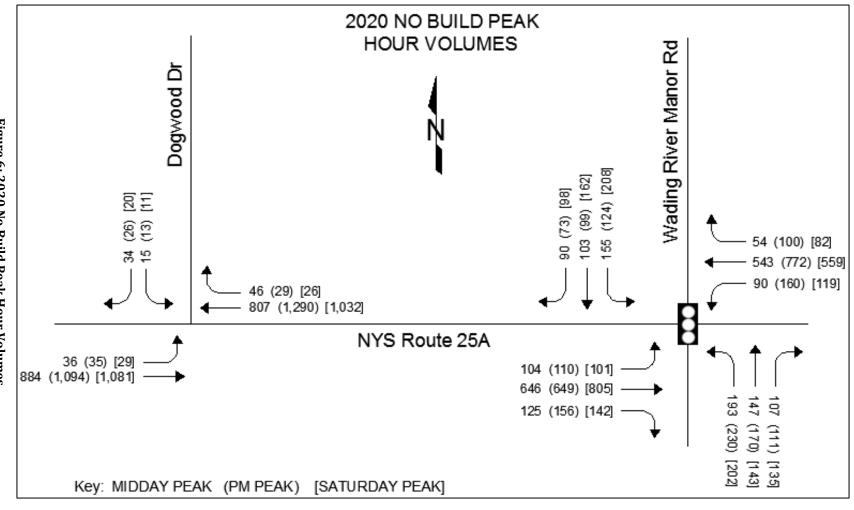
The other planned development traffic volumes are illustrated in Figure 5. To obtain the 2020 No Build traffic volumes at the study intersections, the trips anticipated to be generated by the other planned developments in the vicinity of Venezia Square were added to the resulting volumes inflated by the background growth factor. The 2020 No Build traffic volumes are illustrated in Figure 6.











4.2 2020 No Build Capacity Analysis

The anticipated future no build conditions capacity analysis results are illustrated in Table 4 for the intersections of NYS Route 25A with Dogwood Drive and Wading River Manor Road. The capacity analysis reports for the future no build conditions are included in Appendix D.

Table 4: 2020 Future No Build Conditions Capacity Analysis

			Midda	y	PM		Saturda	ay
Intersection	Movement	Lane Group	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
NYS Route 25A & Dogwood Drive	SB	RL	36.3	Е	147.3	F	66.2	F
	### Company of Company			В	28.7	С	19.7	В
	EB	TR	28.4	С	34.9	С	84.1	F
		Approach	26.7	С	34.2	С	77.9	Е
		L	21.0	С	25.9	С	41.2	D
	WB	TR	21.6	С	38.7	С	27.8	С
NYS Route 25A & Wading		Approach	21.6	С	36.7	D	29.9	С
River Manor Road		L	41.8	D	46.3	D	77.7	Е
	NB	TR	62.9	Е	65.7	Е	64.9	Е
		Approach	53.8	D	57.0	Е	70.3	Е
		L	45.5	D	41.9	D	108.7	F
	SB	TR	50.2	D	49.0	D	56.7	Е
		Approach	48.1	D	46.0	D	79.8	E
	Overall		33.5	C	40.6	D	63.6	E





Highway Capacity Analysis: Future with Build Conditions

5.1 Venezia Square Trip Generation

The proposed development is a 37,000 SF shopping center consisting of a bank with three drive thru windows (4,000 SF), three retail buildings (10,000 SF for two of those buildings and 7,000 SF for one), two fast food restaurants (1,500 SF each), and an 84-seat sit-down restaurant (3,000 SF). In order to assess its potential impact on future traffic conditions, the total traffic generated by the new facility was estimated for each analysis period. The trip generation was based on data from the ITE <u>Trip Generation Manual</u>, 9th Edition, where Shopping Center (Land Use Code 820) was selected as most appropriate for the proposed development based on the description in the manual. We decided to use a component size of 40,000 SF to be conservative and account for additional traffic using the cross-access from the adjoining eastern property, 6333 Realty Group.

The trip generation calculations are presented in Table 5.

Project Component Midday Peak Hour **PM Peak Hour** Saturday Peak Hour Component Size (X) Trips=EXP(0.67*LN(X/1,000)+3.31)Trips=EXP(0.67*LN(X/1,000)+3.31)Trips=EXP(0.67*LN(X/1,000)+3.78)**VENEZIA SQUARE** Entering Entering Exiting Entering Exiting Exiting 40.000 SF 48% 52% 48% 52% 48% 52% ITE #820 158 158 252 231 166 166 Shopping Center Total = 324Total = 324Total = 483

Table 5: Venezia Square Site Generated Trips

Pass-by trips involve traffic already on the road making an unplanned stop at the particular land use. According to ITE's Trip Generation Handbook, 3rd Edition, there is a pass-by credit associated with the shopping center land use. ITE recommended an average pass-by percentage of 34% during the PM peak hour and 26% during the Saturday peak hour. We applied the recommended PM Peak hour 34% pass-by rate to the traffic generated during the midday and PM peak hour traffic and the recommended 26% pass-by rate to the Saturday peak hour.

The new versus pass-by generated trips are presented in Table 6.

Table 6: New vs. Pass-by Site Generated Trips

	Midday	y Peak	PM P	eak	Saturda	y Peak
	Enter	Exit	Enter	Exit	Enter	Exit
New	104	112	104	112	186	165
Pass-by	54	54	54	54	66	66
Total	158	166	158	166	252	231



5.2 Trip Distribution

The site generated traffic was distributed to the site driveways and surrounding roadway network based on the distribution pattern of the existing turning movement counts for each study period, the location and configuration of the site driveways, and the placement of residence buildings and parking lots on the site plan.

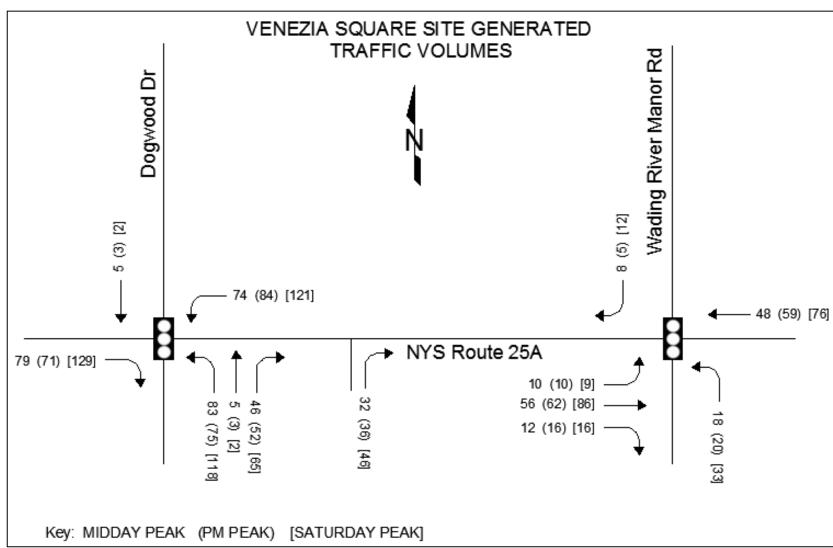
At the intersection of NYS Route 25A with Dogwood Drive, the traffic distribution during the midday peak period shows 50% of the site traffic coming from the west, 47% coming from the east, and the remaining 3% coming from Dogwood Drive. The traffic distribution during the PM peak period shows 45% of the site traffic coming from the west, 53% coming from the east, and the remaining 2% coming from Dogwood Drive. The traffic distribution during the Saturday peak period shows 51% of the site traffic coming from the west, 48% coming from the east, and the remaining 1% coming from Dogwood Drive.

At the intersection of NYS Route 25A with Wading Manor Road, the traffic distribution during the midday peak period shows 37% of the site traffic coming from the west, 29% coming from the east, 14% coming from the north, and 20% coming from the south. The traffic distribution during the PM peak period shows 33% of the site traffic coming from the west, 35% coming from the east, 11% coming from the north, and 21% coming from the south. The traffic distribution during the Saturday peak period shows 39% of the site traffic coming from the west, 25% coming from the east, 17% coming from the north. and 19% coming from the south.

Figure 7 depicts the Venezia Square site generated and distributed traffic volumes.







5.3 2020 Build Condition Traffic Volumes

The site generated traffic volumes were added to the 2020 No Build condition traffic volumes at the intersections NYS Route 25A with Dogwood Drive and Wading River Road, and the site's right-turn out only driveway to establish the 2020 Build Condition traffic volumes. This condition represents the anticipated traffic volumes that will occur in the build-out year and includes background growth, other development growth, and site generated traffic. The 2020 Build Condition traffic volumes are presented in Figure 8.

5.4 2020 Build Condition Capacity Analysis

The anticipated future build conditions capacity analysis results are found in Table 7 for the intersections of NYS Route 25A with Dogwood Drive and Wading River Manor Road. A capacity analysis was also performed for the site's right turn out only driveway 360± feet east of the site's main drive. The capacity analysis reports for the future build conditions are included in Appendix E.

Table 7: Future with Build Conditions Capacity Analysis

		T	Midda	ıy	PM		Saturd	ay
Intersection	Movement	Lane	Delay	LOS	Delay	LOS	Delay	LOS
		Group	(s/veh)		(s/veh)		(s/veh)	
		L	6.6	A	32.9	С	12.3	В
	EB	TR	12.7	В	20.8	С	31.8	С
		Approach	12.5	В	21.2	С	31.4	С
		L	9.5	A	20.9	С	33.5	С
NYS Route 25A &	WB	TR	9.4	Α	35.3	D	14.5	В
Dogwood Drive		Approach	9.4	Α	34.5	С	16.4	В
		TL	49.3	D	49.6	D	52.7	D
	NB	R	47.3	D	48.5	D	47.2	D
		Approach	48.6	D	49.2	D	50.8	D
	SB	TLR	47.3	D	47.6	D	45.6	D
	Overall		14.3	В	29.6	С	26.2	С
Venezia Square Right								
Turn Out Exit & NYS	NB	R	18.6	С	24.7	С	25.8	D
Route 25A								
		L	15.7	В	38.3	D	23.1	С
	EB	TR	33.5	С	46.5	D	128.9	F
		Approach	31.4	С	45.5	D	118.8	F
		L	25.0	С	38.7	D	41.2	D
	WB	TR	23.4	С	53.0	D	32.3	С
NYS Route 25A & Wading		Approach	23.6	С	50.9	D	33.6	С
River Manor Road		L	46.4	D	54.2	D	136.4	F
	NB	TR	62.8	Е	65.7	Е	64.8	Е
		Approach	55.3	Е	60.3	Е	97.6	F
		L	45.5	D	41.9	D	108.4	F
	SB	TR	51.3	D	49.2	D	60.7	Е
		Approach	48.8	D	46.2	D	81.4	F
	Overall		36.0	D	50.3	D	85.3	F



Since the worst conditions occur on Saturday where the LOS for the intersection at NYS Route 25A and Wading River Manor Road becomes an F, we recommend changing the signal timing of the light following the capacity analysis reports in Appendix F in order to result in better and more acceptable LOS as shown in Table 8.

Table 8: Future with Build Conditions Capacity Analysis with Mitigation Measures

		Lane	Midda	y	PM		Saturda	ay
Intersection	Movement	Group	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
		L	14.7	В	38.0	D	18.5	В
	EB	TR	28.8	С	34.8	С	67.8	F
		Approach	27.1	С	35.2	D	63.0	E
		L	22.0	C	33.8	С	61.1	E
	WB	TR	21.9	С	41.8	D	25.3	С
NYS Route 25A & Wading		Approach	21.9	С	40.6	D	30.5	С
River Manor Road		L	49.3	D	56.8	Е	69.3	E
	NB	TR	54.9	D	54.0	D	53.9	D
		Approach	52.3	D	55.4	Е	61.2	E
		L	47.1	D	43.3	D	68.8	Е
	SB	TR	51.8	D	50.5	D	53.3	D
		Approach	49.7	D	47.4	D	60.2	E
	Overall		33.4	C	42.1	D	53.1	D





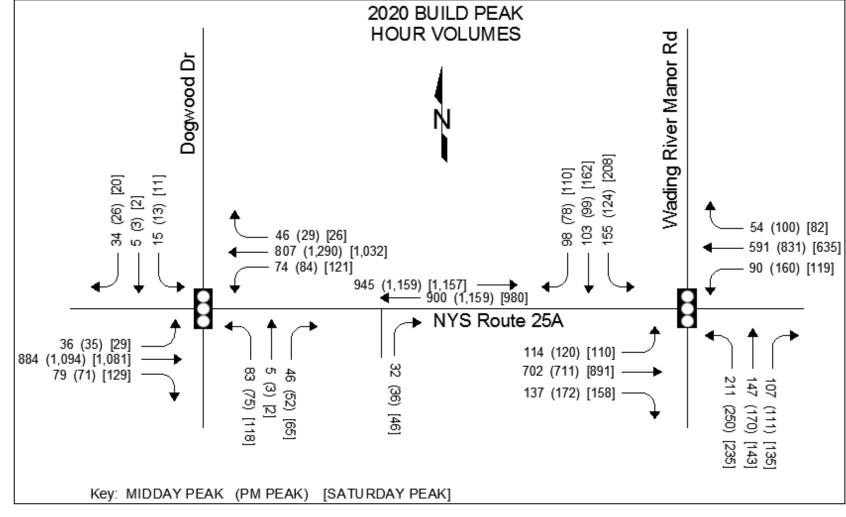


Figure 8: 2020 Build Peak Hour Volumes



Site Access, Circulation and Parking

As noted earlier, the proposed development will have two driveways: one located on either side of the site along NYS Route 25A. The primary driveway is situated opposite of Dogwood Drive and allows for full entering and exiting access. The primary driveway is to be 36 FT wide with two exit lanes. One of the exit lanes will be a left-thru lane and the other a right-turn lane. The site's other driveway consists of a single 16 FT lane. This driveway is restricted to exiting right turns only with no other movement permitted.

All parking with the exception of six parking spaces located adjacent to the proposed bank will be oriented at 90°. The six parking spaces located adjacent to the proposed bank will be oriented at 60° in order to promote one-way circulation around the bank.

From the site plans, all parking code requirements are being met. Figure 9 shows these parking code requirements.

PAI	RKING R	EQUIREM	MENTS
ITEM	CODE	PERMITTED	PROPOSED
MIN. STALL SIZE	§ 301-231E.(2)	10' X 20'	10' X 20'
MIN. ACCESSIBLE STALL SIZE	§ 301-231M.(1)	10' X 20' W/ 8' ACCESS AISLE	10' X 20' W/ 8' ACCESS AISLE
MIN. AISLE WIDTH	§ 301-231E.(1)	24" (90" STALLS) 18" (60" STALLS)	24" (90" STALLS) 18" (60" STALLS)
MIN. NUMBER OF STALLS	§ 301 ATT. 1	174	174
MIN. CURB CUT WIDTH	§ 301-231E.(3)	ONE-WAY = 16' TWO WAY = 24'	ONE-WAY = 38.2' TWO WAY = 100.2'
MIN. CURB CUT SEPARATION	§ 301-98B.(5)	400'	352.9'
MIN. LANDSCAPE COVERAGE WITHIN PARKING FIELD	§ 301-98B.(7)	15% (13,114.63 SF)	16.81% (13,866.18 SF)
MIN. TREES WITHIN PARKING FIELD	§ 301-98B.(8)	1 TREE / 10 STALLS - 18 TREES	19 TREES
REQUIRED FOR BANK = 1 STALL REQUIRED FOR RETAIL = 1 STAL REQUIRED FOR RESTAURANT = TOTAL STALLS REQUIRED = 174 TOTAL STALLS PROVIDED = 174	LL/250 SF = 27,000 S 1 STALL/3 SEATS = STALLS	F X 1/250 = 108 STALL 116 SEATS X 1/3 = 39	S STALLS

Figure 9: Site Plan Parking Requirements



Accident History

An accident history analysis was conducted to examine the nature of accidents occurring at the study intersections and adjoining road segments to assess how the additional traffic from the proposed development might affect any existing patterns or accident rates. The Accident Verbal Description Reports (VDRs) for the most recent available three-year time period were obtained from the NYSDOT Accident Location Information System (ALIS) records and used for our analysis.

The accident history data relative to this study incorporates the portion of NYS Route 25A with Dogwood Drive and Wading River Manor Road. Table 9 illustrates a summary of the accident data at these intersections for the most recent available three-year time period. May 12, 2015 through June 24, 2018.

	Ac	cident	Sever	ity								Accide	ent Ty	ре					
Intersection/ Segment	Fatality	Injury	Property Damage Only	Non- Reportable	Total	Rear-End	Overtaking	Right Angle	Left Turn	Right Turn	Fixed Object	Head On	Side-Swipe	Pedestrian	Bicycle	Parked Vehicle	Backing	Animals' Action	Other/Unkno wn
NYS 25A with Dogwood Drive	0	6	6	0	12	6	0	1	0	0	0	0	1	0	0	0	0	3	1
NYS 25A with Wading River Manor Road	0	20	65	0	85	41	8	14	4	3	1	0	1	0	1	2	2	2	6

Table 9: Accident Data Summary

At NYS 25A and Dogwood Drive, during the three-year study period a total of 12 accidents were reported to have occurred. There were no fatalities, 6 accidents resulted in personal injury, 6 accidents resulted in property damage, and no accidents were classified as nonreportable. The accident type with the highest incident rate was rear-end collisions (6 accidents – 50%). The accident type with the second highest incident rate was animals' actions (3 accidents – 25%) which were all related to deer-crossings. The intersection of NYS 25A and Dogwood Drive is not a high accident location, as there are less than 5 reportable accidents in a 12-month period. Additionally, the installation of a light at this intersection as planned is expected to decrease the number of accidents at this location.

At NYS 25A and Wading River Manor Road, during the three-year study period a total of 85 accidents were reported to have occurred. There were no fatalities, 20 accidents resulted in personal injury, 65 accidents resulted in property damage, and no accidents were classified as non-reportable. The accident type with the highest incident rate was rear-end collisions (41 accidents – 48%). The accident type with the second highest incident rate was right angle collisions (14 accidents – 16%). The intersection of NYS 25A and Wading River Manor Road is a high accident location.



Being that rear-end accidents are the most frequent accident type at both intersections, it is important to look at probable causation and countermeasures. Table 10 depicts probable causes for rear end accidents at unsignalized intersections and signalized intersections and corresponding general countermeasures.

Table 10: Probable Causation and General Countermeasures for Rear-End Accidents

Accident Pattern	Probable Cause	General Countermeasures
	Pedestrian crossing roadway	Improve crosswalk markings and/or signs
		Illuminate crosswalk
		Relocate crosswalk
	Driver not aware of intersection	Install/improve warning signs
Rear-end collisions at		Install overhead flashing beacon
unsignalized	Slippery surface	Overlay pavement (friction course)
intersections		Chip and seal or slurry seal approaches
		Groove pavement
		Provide adequate drainage and/or crown
		Reduce speed limit on approaches
		Use "SLIPPERY WHEN WET" sign
	Large volume of vehicles turning	Increase curb radii
		Construct left-turn or right-turn lanes
		Prohibit turns
	Poor visibility of traffic signals	Remove sight obstructions
		Install/improve advance warning devices
		Install 12-inch signal lenses
		Install signal visors and/or back plates
		Install additional/overhead signals
		Reduce speed limits on approaches
	Inadequate traffic signal timing	Adjust yellow change interval
		Provide all-red clearance interval
		Adjust phase time and cycle time
_ , ,,,,		Install multi-dial controller
Rear-end collisions at		Install traffic-actuated signal
signalized intersections		Adjust minimum green or extension time
		Provide/improve signal progression
	Pedestrians crossing roadway	Improve crosswalk markings/signs
		Provide pedestrian "WALK" phases
	21.	Improve/install lighting at crosswalks
	Slippery surface	Overlay pavement (friction course)
		Chip and seal or slurry seal approaches
		Groove pavement
		Provide adequate drainage and/or crown
		Reduce speed limit on approaches
	Harvamento de investe	Use "SLIPPERY WHEN WET" sign
	Unwarranted signals	Remove signals
	Large volume of vehicles turning	Increase curb radii
		Construct left-turn or right-turn lanes
		Prohibit turns



Conclusions

This updated traffic impact study was performed to investigate the potential impacts from traffic associated with Venezia Square, a 40,000 SF proposed shopping center, located along NYS Route 25A adjacent to the Alexander-Rothwell Funeral Home in Wading River, Riverhead. The intersections examined in this study were NYS Route 25A with Dogwood Drive and NYS Route 25A with Wading River Manor Road. Presently, the site is vacant. The estimated time of completion (ETC) of the project is 2020.

Existing traffic volume counts were taken in October, and the appropriate seasonal factors were applied to account for the area's busier season. Traffic volumes were then projected to the project year of completion using conservative background growth rates of 1.7% per annum in addition to adding site generated trips from new or expanded development in the area. These projections were used to perform capacity analysis to estimate the likely future traffic conditions with, and without, the proposed development. The results were compared to determine the difference in traffic conditions and if this difference would result in any appreciable impact on the surrounding roadway network.

The capacity analysis results demonstrate that the addition of Venezia Square will impact the NYS Route 25A and Wading River Manor Road intersection LOS at the Midday and Saturday peak periods, lowering each from a C to a D and an E to an F, respectively. However, if the signal timing is changed, the LOS at these peak periods can be a C and a D, respectively. To further help improve traffic conditions and the LOS, we recommend installing a right-turn lane at the eastbound approach. Overall the addition of Venezia Square will not significantly impact traffic conditions.

The accident history review examined all of the accidents that occurred at the study intersections and surrounding roadway segments for the most recently available threeyear period. The analysis revealed that there is a pattern of rear-end accidents occurring at both intersections of NYS Route 25A with Dogwood Drive and Wading River Manor Road. General countermeasures for rear-end accidents can be found in Table 10. Additionally, a handful of deer-crossing related accidents occur in this area each year, but these accidents are unrelated to the roadway design. The to-be installed signalized light at Dogwood Drive with NYS Route 25A is expected to relieve the frequency of rear-end accidents occurring at this location.



APPENDIX A:

Turning Movement Counts



Ronkonkoma, NY 11779

Venezia Square Dogwood Drive Intersection **Turning Movement Counts** Weekday Midday & PM Peaks File Name: Venezia Intersection 1

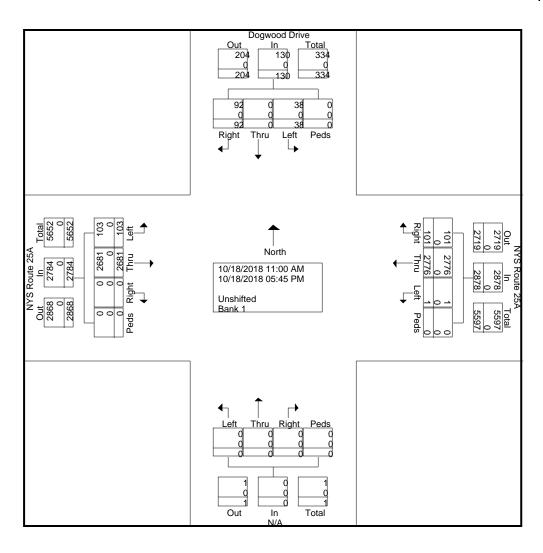
Site Code: 18-040T Start Date: 10/18/2018

								G	Froups P	rinted- Unsh	ifted - Ban	k 1									
		Dog	gwood D	rive			NY	S Route 2	25A				N/A				NY	S Route 2	25A		
		F	rom Nor	th]	From East	t			F	rom Sout	h			F	rom Wes	st		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
11:00 AM	14	0	4	0	18	7	110	0	0	117	0	0	0	0	0	0	128	3	0	131	266
11:15 AM	2	0	2	0	4	8	136	0	0	144	0	0	0	0	0	0	144	6	0	150	298
11:30 AM	7	0	6	0	13	7	120	0	0	127	0	0	0	0	0	0	148	6	0	154	294
11:45 AM	5	0	2	0	7	8	133	0	0	141	0	0	0	0	0	0	178	7	0	185	333
Total	28	0	14	0	42	30	499	0	0	529	0	0	0	0	0	0	598	22	0	620	1191
12:00 PM	5	0	4	0	9	9	155	0	0	164	0	0	0	0	0	0	155	3	0	158	331
12:15 PM	3	0	0	0	3	6	141	0	0	147	0	0	0	0	0	0	153	7	0	160	310
12:30 PM	8	0	3	0	11	10	144	0	0	154	0	0	0	0	0	0	166	9	0	175	340
12:45 PM	6	0	1	0	7	5	142	1	0	148	0	0	0	0	0	0	148	6	0	154	309
Total	22	0	8	0	30	30	582	1	0	613	0	0	0	0	0	0	622	25	0	647	1290
*** BREAK ***																					
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04:15 PM	4	0	0	0	4	6	213	0	0	219	0	0	0	0	0	0	181	8	0	189	412
04:30 PM	4	0	2	0	6	5	195	0	0	200	0	0	0	0	0	0	165	7	0	172	378
04:45 PM	7	0	3	0	10	5	212	0	0	217	0	0	0	0	0	0	204	11	0	215	442
Total	23	0	9	0	32	23	815	0	0	838	0	0	0	0	0	0	723	30	0	753	1623
05:00 PM	4	0	2	0	6	4	217	0	0	221	0	0	0	0	0	0	185	10	0	195	422
05:15 PM	3	0	2	0	5	2	224	0	0	226	0	0	0	0	0	0	176	5	0	181	412
05:30 PM	11	0	2	0	13	5	222	0	0	227	0	0	0	0	0	0	211	4	0	215	455
05:45 PM	1	0	1	0	2	7	217	0	0		0	0	0	0	0	0	166	7	0	173	399
Total	19	0	7	0	26	18	880	0	0	898	0	0	0	0	0	0	738	26	0	764	1688
Grand Total	92	0	38	0	130	101	2776	1	0	2878	0	0	0	0	0	0	2681	103	0	2784	5792
Apprch %	70.8	0	29.2	0		3.5	96.5	0	0		0	0	0	0		0	96.3	3.7	0		
Total %	1.6	0	0.7	0	2.2	1.7	47.9	0	0		0	0	0	0	0	0	46.3	1.8	0	48.1	
Unshifted	92	0	38	0	130	101	2776	1	0		0	0	0	0	0	0	2681	103	0	2784	5792
% Unshifted	100	0	100	0	100	100	100	100	0		0	0	0	0	0	0	100	100	0	100	100
Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ronkonkoma, NY 11779

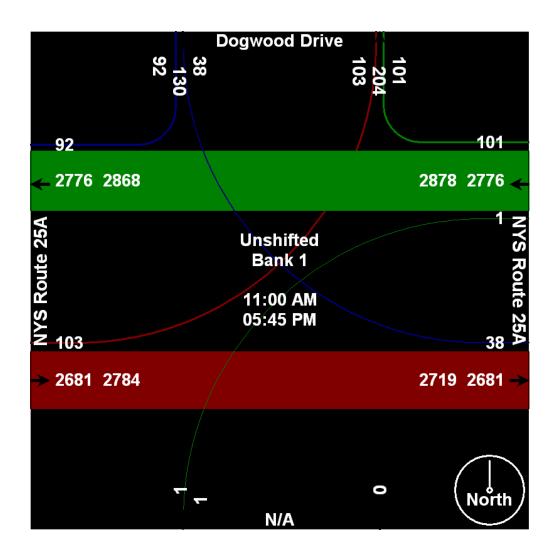
Venezia Square Dogwood Drive Intersection **Turning Movement Counts** Weekday Midday & PM Peaks File Name: Venezia Intersection 1

Site Code: 18-040T Start Date: 10/18/2018



Ronkonkoma, NY 11779

Venezia Square Dogwood Drive Intersection **Turning Movement Counts** Weekday Midday & PM Peaks

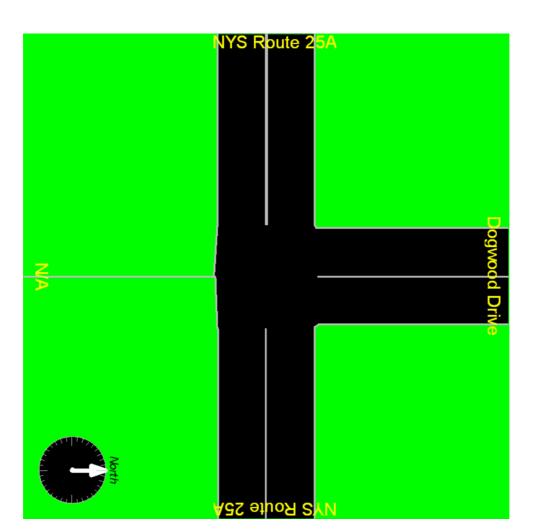


File Name: Venezia Intersection 1

Site Code : 18-040T Start Date : 10/18/2018

Venezia Square
Dogwood Drive Intersection Weekday Midday & PM Peaks **Turning Movement Counts**

Schneider Engineering 1 Comac Loop, Suite 1B4 Ronkonkoma, NY 11779



File Name: Venezia Intersection 1
Site Code: 18-040T
Start Date: 10/18/2018
Page No: 4

Ronkonkoma, NY 11779

Venezia Square Dogwood Drive Intersection **Turning Movement Count** Saturday Peak

File Name: Venezia Intersection 1 Saturday

Site Code: 18-040T

Start Date: 10/28/2018

Page No : 1

Groups Printed- Unshifted - Bank 1

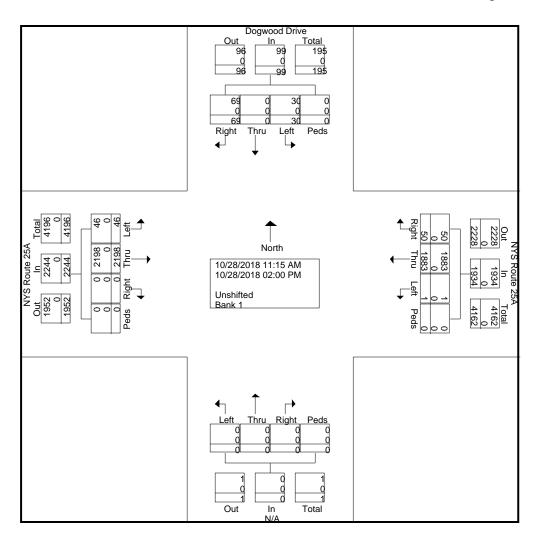
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11:15 AM 4 0 2 0 6 4 133 0 0 137 0 0 0 0 0 0 183 3 0 186 11:30 AM 7 0 1 0 8 4 134 0 0 138 0 0 0 0 0 0 163 0 0 163 0 0 163 0			st	rom We	F			uth	rom Sou	F			st	rom Eas	F			rth	rom No	F		
11:15 AM 4 0 2 0 6 4 133 0 0 137 0 0 0 0 0 0 183 3 0 186 11:30 AM 7 0 1 0 8 4 134 0 0 138 0 0 0 0 0 0 163 0 0 163 0 0 163 0	Int. Total	App. Total	Peds	Left	Thru	Right	App. Total	Peds	Left	Thru	Right	App. Total	Peds	Left	Thru	Right	App. Total	Peds	Left	Thru	Right	Start Time
11:45 AM 16	329	186	0	3	183	0	0	0	0	0	0	137	0	0	133	4		0	2	0	4	11:15 AM
Total 27 0 16 0 43 19 388 0 0 407 0 0 0 0 0 554 12 0 566 12:00 PM 9 0 2 0 11 2 142 0 0 144 0 0 0 0 0 175 12:15 PM 12 0 6 0 18 3 166 0 0 169 0 0 0 0 0 0 188 6 0 195 12:30 PM 1 0 0 0 1 4 146 0 0 150 0 0 0 0 198 6 0 199 12:45 PM 5 0 2 0 7 4 194 0 0 198 0 0 0 0 0 170 Total 27 0 10 0 </td <td>309</td> <td>163</td> <td>0</td> <td>0</td> <td>163</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>138</td> <td>0</td> <td>0</td> <td>134</td> <td>4</td> <td>8</td> <td>0</td> <td>1</td> <td>0</td> <td>7</td> <td>11:30 AM</td>	309	163	0	0	163	0	0	0	0	0	0	138	0	0	134	4	8	0	1	0	7	11:30 AM
12:00 PM 9	378	217	0	9	208	0	0	0	0	0	0	132	0	0	121	11	29	0	13	0	16	11:45 AM
12:15 PM 12	1016	566	0	12	554	0	0	0	0	0	0	407	0	0	388	19	43	0	16	0	27	Total
12:15 PM 12	330	175	0	2	170		0.1	0	0	0	0	111	0	0	142	2	11	0	2	0	0	12:00 DM
12:30 PM 1	382			6		0	0		0	0	0			0					6	0	-	
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04.00 FM	381	179	0	6	173	0	0	0	0	0	0	193	0	0	190	3	9	0	1	0	8	01:15 PM
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Ronkonkoma, NY 11779

Venezia Square Dogwood Drive Intersection **Turning Movement Count** Saturday Peak

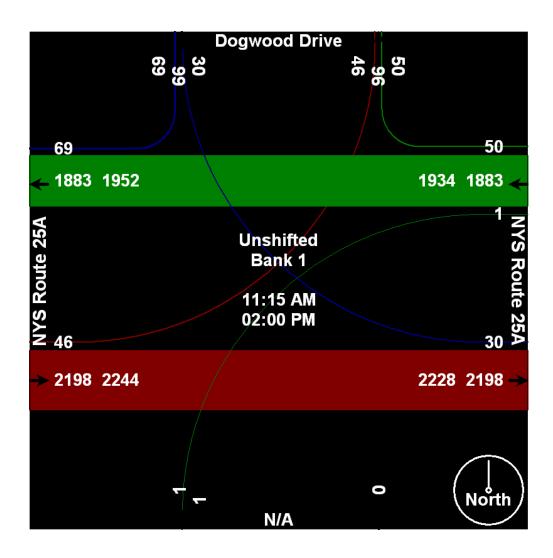
File Name: Venezia Intersection 1 Saturday

Site Code: 18-040T Start Date: 10/28/2018



Ronkonkoma, NY 11779

Venezia Square Dogwood Drive Intersection **Turning Movement Count** Saturday Peak

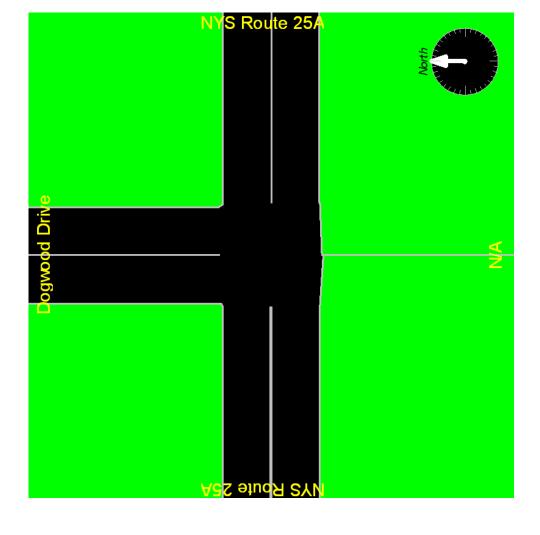


File Name: Venezia Intersection 1 Saturday

Site Code : 18-040T Start Date : 10/28/2018

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File Name: Venezia Intersection 1 Saturday Site Code: 18-040T Start Date: 10/28/2018 Page No: 4



Venezia Square Dogwood Drive Intersection Turning Movement Count Saturday Peak

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Venezia Square Wading River Manor Road Intersection **Turning Movement Counts** Weekday Midday & PM Peaks

File Name: Venezia Intersection 2

Site Code: 18-040T Start Date: 10/18/2018

Page No : 1

Groups Printed Unshifted

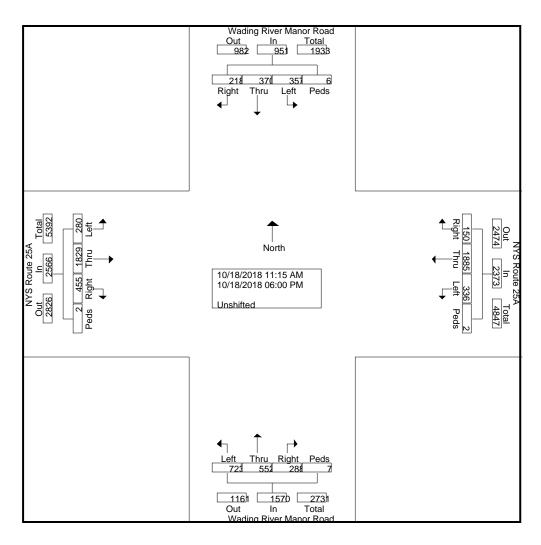
									Grou	ıps Printed- U	Inshifted										
		i	NYS Route 25A						Wading 1	River Mai	l										
			From East					From South					From West								
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
11:15 AM	7	19	20	0	46	5	71	21	0	97	16	28	31	0	75	15	96	17	0	128	346
11:30 AM	16	24	8	0	48	5	95	12	0	112	15	24	35	0	74	25	115	7	0	147	381
11:45 AM	13	21	24	0	58	11	84	10	0	105	20	25	31	0	76	26	101	10	0	137	376
Total	36	64	52	0	152	21	250	43	0	314	51	77	97	0	225	66	312	34	0	412	1103
12:00 PM	16	26	17	0	59	7	87	16	0	110	16	38	32	0	86	28	116	22	0	166	421
12:15 PM	16	22	23	1	62	9	100	24	0	133	13	29	47	0	89	26	96	26	0	148	432
12:30 PM	18	19	33	0	70	10	110	11	0	131	17	24	29	1	71	28	111	17	0	156	428
12:45 PM	13	18	27	0	58	7	100	13	1	121	20	30	44	0	94	17	131	15	0	163	436
Total	63	85	100	1	249	33	397	64	1	495	66	121	152	1	340	99	454	80	0	633	1717
01:00 PM *** BREAK ***	12	22	25	1	60	9	90	15	0	114	19	19	36	0	74	28	104	12	1	145	393
Total	12	22	25	1	60	9	90	15	0	114	19	19	36	0	74	28	104	12	1	145	393
*** BREAK ***																					
04:15 PM	16	35	27	0	78	9	125	24	0	158	18	42	63	1	124	31	100	20	0	151	511
04:30 PM	10	15	17	3	45	12	147	29	0	188	17	50	57	0	124	29	137	12	0	178	535
04:45 PM	16	33	20	0	69	10	135	20	0	165	17	42	58	1	118	30	103	21	0	154	506
Total	42	83	64	3	192	31	407	73	0	511	52	134	178	2	366	90	340	53	0	483	1552
05:00 PM	15	19	17	0	51	14	156	26	1	197	17	36	54	0	107	46	130	11	0	187	542
05:15 PM	9	28	29	0	66	14	143	38	0	195	20	41	49	3	113	29	134	21	0	184	558
05:30 PM	13	26	22	1	62	10	154	27	0	191	28	42	60	0	130	24	122	19	1	166	549
05:45 PM	13	23	23	0	59	12	155	25	0	192	17	46	46	0	109	37	127	30	0	194	554
Total	50	96	91	1	238	50	608	116	1	775	82	165	209	3	459	136	513	81	1	731	2203
06:00 PM	15	20	25	0	60	6	133	25	0	164	18	36	51	1	106	36	106	20	0	162	492
Grand Total	218	370	357	6	951	150	1885	336	2	2373	288	552	723	7	1570	455	1829	280	2	2566	7460
Apprch %	22.9	38.9	37.5	0.6		6.3	79.4	14.2	0.1		18.3	35.2	46.1	0.4		17.7	71.3	10.9	0.1		
Total %	2.9	5	4.8	0.1	12.7	2	25.3	4.5	0	31.8	3.9	7.4	9.7	0.1	21	6.1	24.5	3.8	0	34.4	

Ronkonkoma, NY 11779

Venezia Square Wading River Manor Road Intersection **Turning Movement Counts** Weekday Midday & PM Peaks

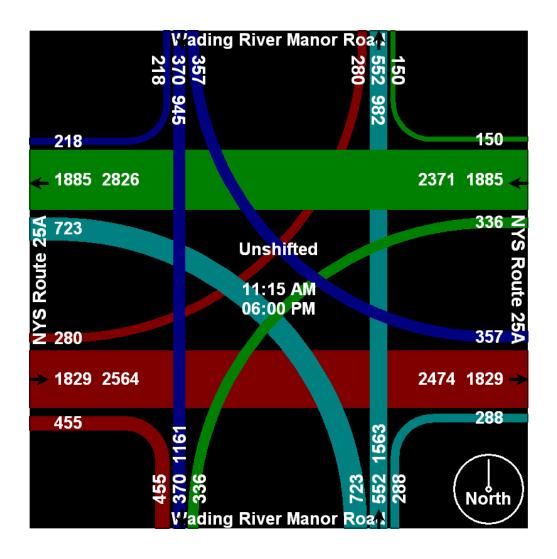
File Name: Venezia Intersection 2

Site Code: 18-040T Start Date: 10/18/2018



Ronkonkoma, NY 11779

Venezia Square Wading River Manor Road Intersection **Turning Movement Counts** Weekday Midday & PM Peaks



File Name: Venezia Intersection 2

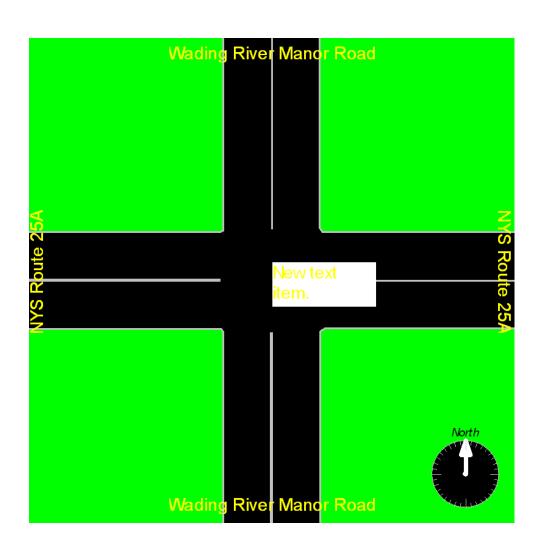
Site Code : 18-040T Start Date : 10/18/2018

Ronkonkoma, NY 11779

Venezia Square Wading River Manor Road Intersection **Turning Movement Counts** Weekday Midday & PM Peaks

File Name: Venezia Intersection 2

Site Code: 18-040T Start Date: 10/18/2018



Ronkonkoma, NY 11779

Venezia Square Wading River Manor Road Intersection **Turning Movement Counts** Saturday Peak

File Name: Venezia Intersection 2 Saturday

Site Code: 18-040T

Start Date: 10/28/2018

Page No : 1

Groups Printed- Unshifted

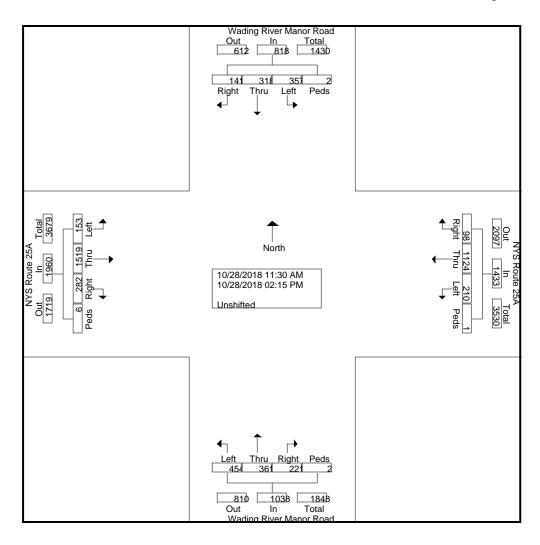
	Groups Printed- Unshifted																				
	,	Wading	River Ma	ad	NYS Route 25A					Wading River Manor Road											
		F	rom No		From East					From South					From West						
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
11:30 AM	9	26	22	0	57	12	75	15	0	102	11	34	42	0	87	22	136	8	0	166	412
11:45 AM	16	13	24	1	54	10	74	17	0	101	16	29	36	0	81	20	118	12	0	150	386
Total	25	39	46	1	111	22	149	32	0	203	27	63	78	0	168	42	254	20	0	316	798
										i											
12:00 PM	6	22	29	0	57	10	75	17	0	102	12	25	37	0	74	16	153	17	0	186	419
12:15 PM	18	26	31	0	75	7	95	17	0	119	26	31	33	2	92	33	120	22	1	176	462
12:30 PM	18	50	38	0	106	11	89	19	0	119	18	34	43	0	95	26	121	8	0	155	475
12:45 PM	11	34	35	0	80	8	85	19	0	112	22	27	35	0	84	26	144	12	0	182	458
Total	53	132	133	0	318	36	344	72	0	452	78	117	148	2	345	101	538	59	1	699	1814
						_								_	1						
01:00 PM	10	23	36	0	69	7	104	17	0	128	20	27	38	0	85	19	109	10	0	138	420
01:15 PM	10	28	34	0	72	7	88	16	0	111	26	35	49	0	110	19	107	8	0	134	427
01:30 PM	8	25	34	0	67	6	119	20	0	145	19	37	37	0	93	26	124	18	1	169	474
01:45 PM	13	24	16	0	53	8	106	14	0	128	18	22	35	0	75	32	148	10	0	190	446
Total	41	100	120	0	261	28	417	67	0	512	83	121	159	0	363	96	488	46	1	631	1767
															i					1	
02:00 PM	11	21	30	0	62	3	97	19	0	119	14	32	33	0	79	20	117	18	3	158	418
02:15 PM	11	26	28	1	66	9	117	20	1	147	19	28	36	0	83	23	122	10	1	156	452
Grand Total	141	318	357	2	818	98	1124	210	1	1433	221	361	454	2	1038	282	1519	153	6	1960	5249
Apprch %	17.2	38.9	43.6	0.2		6.8	78.4	14.7	0.1		21.3	34.8	43.7	0.2		14.4	77.5	7.8	0.3		
Total %	2.7	6.1	6.8	0	15.6	1.9	21.4	4	0	27.3	4.2	6.9	8.6	0	19.8	5.4	28.9	2.9	0.1	37.3	

Ronkonkoma, NY 11779

Venezia Square Wading River Manor Road Intersection **Turning Movement Counts** Saturday Peak

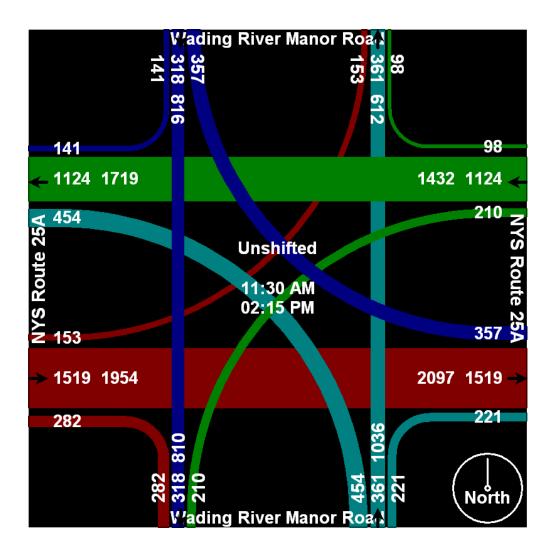
File Name: Venezia Intersection 2 Saturday

Site Code: 18-040T Start Date: 10/28/2018



Ronkonkoma, NY 11779

Venezia Square Wading River Manor Road Intersection **Turning Movement Counts** Saturday Peak



File Name: Venezia Intersection 2 Saturday

Site Code : 18-040T Start Date : 10/28/2018

Schneider Engineering 1 Comac Loop, Suite 1B4

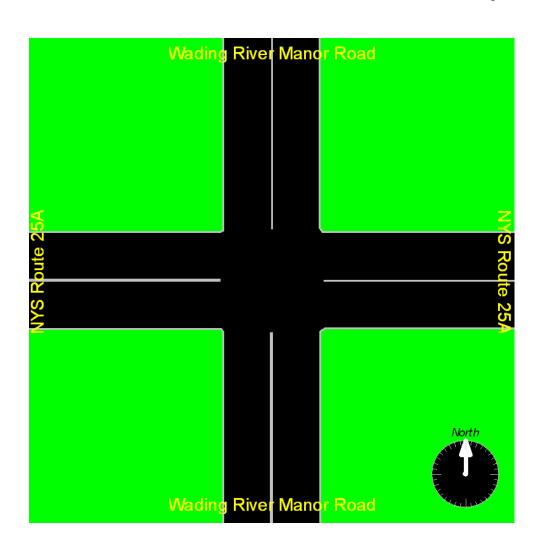
Ronkonkoma, NY 11779

Venezia Square Wading River Manor Road Intersection **Turning Movement Counts** Saturday Peak

File Name: Venezia Intersection 2 Saturday

Site Code: 18-040T Start Date: 10/28/2018

Page No : 4



APPENDIX B:

2017 NYSDOT Seasonal Adjustment Factors



SEASONAL ADJUSTMENT FACTORS FOR TRAFFIC COUNT PROCESSING 2017

Based on Continuous Count Site Data 2014 - 2016

FULL WEEK

	GROUP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
	urban - 30	0.879	0.905	0.966	1.016	1.052	1.069	1.047	1.054	1.039	1.033	0.976	0.964
S	suburban - 40	0.782	0.804	0.868	0.948	1.076	1.132	1.230	1.224	1.097	1.035	0.927	0.876
recre	eational - 60	0.627	0.669	0.692	0.787	1.059	1.271	1.639	1.598	1.200	0.997	0.762	0.698

Factor Group	% Precision with 95% Confidence
urban - 30	0.85%
suburban - 40	1.38%
recreational - 60	5.48%

The FHWA Traffic Monitoring Guide 2016 states (page 3-27):

The reliability levels recommended are 10 percent precision with 95 percent confidence for each individual seasonal group, excluding recreational groups where no precision requirement is specified.

For each factor group, the percent precision value is the maximum value out of all months.

New York State Department of Transportation Highway Data Services Bureau MO-TrafficDataViewer@dot.ny.gov (518) 457-1965

SEASONAL ADJUSTMENT FACTORS FOR TRAFFIC COUNT PROCESSING 2017

Based on Continuous Count Site Data 2014 – 2016 WEEKEND

	GROUP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	urban - 30	0.760	0.794	0.848	0.895	0.944	0.952	0.918	0.937	0.927	0.908	0.864	0.830
	suburban - 40	0.709	0.737	0.808	0.887	1.038	1.125	1.253	1.243	1.080	0.987	0.867	0.790
re	creational - 60	0.617	0.674	0.679	0.770	1.119	1.412	1.879	1.813	1.337	1.053	0.740	0.656

Factor Group	% Precision with 95% Confidence
urban - 30	2.17%
suburban - 40	2.57%
recreational - 60	6.60%

The FHWA Traffic Monitoring Guide 2016 states (page 3-27):

The reliability levels recommended are 10 percent precision with 95 percent confidence for each individual seasonal group, excluding recreational groups where no precision requirement is specified.

For each factor group, the percent precision value is the maximum value out of all months.

New York State Department of Transportation Highway Data Services Bureau MO-TrafficDataViewer@dot.ny.gov (518) 457-1965

SEASONAL ADJUSTMENT FACTORS FOR TRAFFIC COUNT PROCESSING 2017

Based on Continuous Count Site Data 2014 – 2016 WORK WEEK

	GROUP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
	urban - 30	0.923	0.944	1.009	1.062	1.093	1.113	1.101	1.100	1.078	1.078	1.018	1.019
	suburban - 40	0.808	0.822	0.884	0.958	1.071	1.113	1.201	1.190	1.079	1.035	0.942	0.912
re	creational - 60	0.634	0.654	0.696	0.778	1.003	1.170	1.500	1.459	1.086	0.943	0.764	0.718

Factor Group	% Precision with 95% Confidence
urban - 30	1.05%
suburban - 40	1.49%
ecreational - 60	5.99%

The FHWA Traffic Monitoring Guide 2016 states (page 3-27):

The reliability levels recommended are 10 percent precision with 95 percent confidence for each individual seasonal group, excluding recreational groups where no precision requirement is specified.

For each factor group, the percent precision value is the maximum value out of all months.

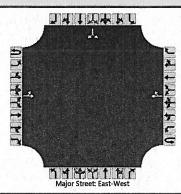
New York State Department of Transportation Highway Data Services Bureau MO-TrafficDataViewer@dot.ny.gov (518) 457-1965

APPENDIX C:

Existing Conditions Capacity Analysis Reports

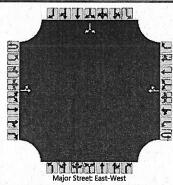


	HCS7 Two-Wa	ay Stop-Control Report	
General Information		Site Information	
Analyst	A.R.	Intersection	Dogwood/25A
Agency/Co.	Schneider Engineering	Jurisdiction	NYSDOT
Date Performed	11/6/2018	East/West Street	NYS Route 25A
Analysis Year	2018	North/South Street	Dogwood Dr
Time Analyzed	Existing Midday Peak	Peak Hour Factor	0.95
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	Venezia Square		



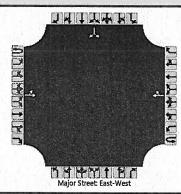
Approach		Eastb	ound			West	bound		44.5	North	bound		100	South	oound	
Movement	υ	L	Ť	R	U	L	Т	R	U	L	Т	Ř	U	L	Ť	R
Priority	10	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	1	0
Configuration		LT						TR				2 2 2			LR	
Volume (veh/h)		31	765				716	37						10		27
Percent Heavy Vehicles (%)		6								A. Jennie	1 - 1 - 1		1	0		0
Proportion Time Blocked		0.000												0.000		0.000
Percent Grade (%)										11111				()	
Right Turn Channelized																
Median Type Storage			- 1177	Undi	vided				1							
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.16												6.40		6.20
Base Follow-Up Headway (sec)		2.2	3.1	T-1/1			0,911.6.2							3.5		3.3
Follow-Up Headway (sec)		2.25												3.50		3,30
Delay, Queue Length, an	d Leve	l of Se	ervice													
Flow Rate, v (veh/h)		33						11/1/2							39	
Capacity, c (veh/h)		811													230	
v/c Ratio		0.04													0.17	
95% Queue Length, Q ₉₅ (veh)		0,1													0.6	
Control Delay (s/veh)		9.6													23.8	
Level of Service (LOS)		Α													С	
Approach Delay (s/veh)		1.	.0											23	3.8	
Approach LOS								e e e e e e e e e e e e e e e e e e e							ć	

	HCS7 Two-W	ay Stop-Control Report	
General Information		Site Information	
Analyst	A.R.	Intersection	Dogwood/25A
Agency/Co.	Schneider Engineering	Jurisdiction	NYSDOT
Date Performed	11/6/2018	East/West Street	NYS Route 25A
Analysis Year	2018	North/South Street	Dogwood Dr
Time Analyzed	Existing PM Peak	Peak Hour Factor	0.95
Intersection Orientation	East-West	Ánalysis Time Period (hrs)	0.25
Project Description	Venezia Square		



		HAM Y	12.00		Majo	or Street: E	ast-West	1 1							Acres 1	4.15
Vehicle Volumes and Ad	ljustme	nts														
Approach		Easth	oound		61.4	West	bound	Ť.,		North	bound		1	South	bound	
Movement	U	L	T	R	U	L	T	R	υ	L	Т	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	1	0
Configuration		LT	14.61					TR			7 4 4				LR	
Volume (veh/h)		31	907				1082	22						9		23
Percent Heavy Vehicles (%)		6												0		0
Proportion Time Blocked		0.000												0.000		0.00
Percent Grade (%)														()	
Right Turn Channelized																
Median Type Storage			174	Undi	ivided				100							
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		4.1			111		100							7.1		6.2
Critical Headway (sec)		4.16												6.40		6.20
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.25												3.50		3.30
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)		33			1										34	
Capacity, c (veh/h)		587													115	
v/c Ratio		0.06			Yorkey.										0.29	
95% Queue Length, Q ₉₅ (veh)		0,2													1.1	
Control Delay (s/veh)		11.5					1				100		17 (18)		48.6	
Level of Service (LOS)		В													E	
Approach Delay (s/veh)		1	.7											48	3.6	
Approach LOS																

	HCS7 Two-W	ay Stop-Control Report	
General Information		Site Information	
Analyst	A.R.	Intersection	Dogwood/25A
Agency/Co.	Schneider Engineering	Jurisdiction	NYSDOT
Date Performed	11/6/2018	East/West Street	NYS Route 25A
Analysis Year	2018	North/South Street	Dogwood Dr
Time Analyzed	Existing Saturday Peak	Peak Hour Factor	0.95
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	Venezia Square		



Approach		Eastb	ound			West	bound	44		North	bound			South	bound	7 11
Movement	U	L	T	Ŗ	Ü	L	Т	R	U	L	T	R	U	L	Ť	R
Priority	10	1	2	3	4U	4	- 5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	1	0
Configuration		LT			33.75			TR				1077 0			LR	
Volume (veh/h)		20	866				827	14						5		16
Percent Heavy Vehicles (%)		6			17									0		0
Proportion Time Blocked		0.000												0.000		0.00
Percent Grade (%)								111					V. 1	()	
Right Turn Channelized																
Median Type Storage		A. A. L.		Undi	vided											12.2
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.16												6.40		6,20
Base Follow-Up Headway (sec)		2.2						V 4		, X				3.5		3.3
Follow-Up Headway (sec)		2.25												3.50		3,30
Delay, Queue Length, an	d Leve	l of Se	ervice													
Flow Rate, v (veh/h)		21					(a) 10				1 / 15				22	
Capacity, c (veh/h)		748													198	
v/c Ratio		0.03			4.1					9 0 -					0.11	
95% Queue Length, Q ₉₅ (veh)		0.1													0.4	
Control Delay (s/veh)		10.0											1. 1.		25.5	
Level of Service (LOS)		Α													D	
Approach Delay (s/veh)		0.	.8			11/11/11				Y-V				25	5.5	
Approach LOS											((6)	

			S7 Sig								J				
General Inform	nation								nterse	ction Inf	ormatio	on			41
Agency		Schneider Enginee	ering						Duration		0.25			47	
Analyst		A.R.		Analys	sis Date	e 11/6/2	2018		Area Ty	****	Other	•	- J		
Jurisdiction	in the second	NYSDOT		Time I	-		ay Peak	MARKET AND DESCRIPTION OF THE PARTY OF THE P	PHF		0.98	e Paris			
Urban Street		NYS Route 25A		J.	sis Yea	mand	MARIA I			Period	1> 7:0	00	- F		
Intersection	Walles and the Control of the Contro	25A with Wading R	liver	File N	Nanda managana anda	******************************	v Wadin		000000000000000000000000000000000000000	g Midda				5.4	
Project Descrip	tion	Exisiting Midday Po	The second second second							y Midda	y II Geiki.				14
Demand Inform	nation				EB	mma.mar		WB			NB	dr. jone jone		SB	- usor out
Approach Move	ment	erenten e	total description of the second	L	Т	R	l L	Т	R		Т	R	ΗL	ΙT	T
Demand (v), v	-			95	540		76	472	mark Commencer	180	143	78	119	101	
				II ann an	-		М								
Signal Informa	tion						1	JJ		2	3	J. M. P. C.			The state of the s
Cycle, s	127.0	Reference Phase	2		1	T¥ .			18				4	1	D
Offset, s	0	Reference Point	End	Green	40	0.6	75.3	9.5	2.5	16.		1	¥ 2	3	
Uncoordinated	No	Simult. Gap E/W	On	Yellow		0.0	3.6	3.0	0.0	4.7		7			K
Force Mode	Fixed	Simult. Gap N/S	On	Red	0.0	0.0	2.0	0.0	0.0	2.0		5	6	7	
Tieses Beautie				le en			l market								
Timer Results			CONTROL CONTROL	EBI	-	EBT	WB	L	WBT	NB	L	NBT	SB		SBT
Assigned Phase	3			5		2	1		6	3		8	7		4
Case Number			andreite de la complete	1.1		4.0	1.1	and interesting the party and	4.0	1.1	timications standards	4.0	1.1	territaininterritai desiritaininter	4.0
Phase Duration	And the second second			7.6		81.5	7.0	-	80.9	15.0		26.0	12.5		23.5
Change Period,	CONTRACTOR DESCRIPTION OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESS			3.0	uncuin ulme	5.6	3.0		5.6	3.0	matternant mantena	6.7	3.0	CHARLES CONTRACTOR	6.7
CONTRACTOR PROPERTY AND ADDRESS OF THE PARTY	Allow Headway (<i>MAH</i>), s ue Clearance Time (<i>g</i> s), s					0.0	3.2	-	0.0	3.2		3.2	3.2	***********	3.2
						0.0	4.2			13.4	Marrisonian Socianios	18.6	9.6	nacionamic maciona	15.3
The same of the sa	n Extension Time (g e), s					0.0	0.1		0.0	0.0	THE PERSON NAMED IN	0.7	0.0		0.7
rem il refried redirector de la frança de la constanta de la finale	e Call Probability						0.94			1.00	aniani dadan da	1.00	0.99	-	1.00
Max Out Probat	JIIITY			0.00	<u> </u>		0.00)		1.00)	0.00	1.00	J	0.00
Movement Gro	up Res	sults			EB			WB			NB	av m		SB	
Approach Move	ment			L	Т	R	L	Т	R	L	Т	R	L	T	F
Assigned Move	ment			5	2	12	1	6	16	3	8	18	7	4	1
Adjusted Flow F	Rate (v), veh/h		97	670	1	78	521	1	184	226		121	180	1
Adjusted Satura	tion Flo	w Rate (s), veh/h/	ln	1725	1755		1711	1772		1697	1675		1697	1655	
Queue Service	Time (g	7 s), S	ndia manana manana	2.6	31.0	The state of the s	2.2	21.2	Tank to the same of	11.4	16.6	DOMESTIC CONTRACTOR	7.6	13.3	1
Cycle Queue Cl	***************************************			2.6	31.0		2.2	21.2		11.4	16.6		7.6	13.3	
Green Ratio (g/	and the state of t		Common Co	0.65	0.61		0.64	0.60		0.26	0.16		0.22	0.14	T
Capacity (c), v	DATE OF THE PERSONS			503	1062		373	1064		271	268		203	232	1
Volume-to-Capa	A SECURITION ASSESSMENT	tio (X)		0.193	0.631	-	0.208	0.490	Timounicanine	0.677	0.842		0.597	0.774	1
Back of Queue ((Q),ft/	In (50 th percentile)	23.8	317.2		19.8	218.3		134.4	189.8		84.9	147	
CHRONICAN INCOME AND ADDRESS TO A CHRONICAL COLOR	-		tetation military metalogical	0.9	12.1		0.8	8.3		5.1	7.1		3.2	5.5	1
THE RESERVOIR STREET, AND PROPERTY AND PROPE	k of Queue (Q), veh/ln (50 th percentile) ue Storage Ratio (RQ) (50 th percentile)			0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
	form Delay (d_1), s/veh				16.0	TIGHTON DATE OF THE	13.5	14.4	1	40.3	51.8		42.5	52.7	1
	emental Delay (d 2), s/veh				2.8		0.1	1.6		5.5	4.4		1.4	2.1	
	al Queue Delay (d ȝ), s/veh				0.0		0.0	0.0		0.0	0.0		0.0	0.0	1
	ntrol Delay (<i>d</i>), s/veh				18.8		13.6	16.0	- Company	45.7	56.2		43.9	54.7	1
	vel of Service (LOS)			10.4 B	В	WALLEY TO LAKE A	В	В		D	Е		D	D	十一
	proach Delay, s/veh / LOS			17.8		В	15.7	The state of the s	В	51.5		D	50.4		D
ntersection Del					A.		B.5						C		
					EB		202	WB			NB			SB	
	ultimodal Results				LD		-	1A/D		20	NIQ		III.	CD	
	_	U.08		1.89	-	В	1.89	or talk consumptions and a second	В	1.98		В	1.98	-	В

HCS7 Signalized Intersection Results Summary 141416 General Information Intersection Information Agency Schneider Engineering Duration, h 0.25 Analyst A.R. Analysis Date 11/6/2018 Area Type Other Time Period Jurisdiction NYSDOT PM Peak PHF 0.98 **Urban Street** NYS Route 25A **Analysis Year** 2018 **Analysis Period** 1>7:00 25A with Wading River... Intersection File Name 25A w Wading River Existing PM Peak.xus **Exisiting PM Peak Project Description** 14746 **Demand Information** EB WB NB SB Approach Movement R L T R Т R R Demand (v), veh/h 81 513 136 116 608 50 209 165 82 50 91 96 **Signal Information** 21. Cycle, s 127.0 Reference Phase 2 517 Offset, s 0 Reference Point End Green 4.2 74.6 1.2 7.6 1.4 16.8 Uncoordinated No Simult. Gap E/W On Yellow 3.0 0.0 3.6 3.0 4.7 3.0 Force Mode 2.0 **Fixed** Simult. Gap N/S 0.0 0.0 2.0 0.0 On Red 0.0 **Timer Results EBL** WBL WBT SBL **EBT** NBL **NBT** SBT **Assigned Phase** 5 2 1 6 3 8 Case Number 1.1 4.0 4.0 4.0 1.1 1.1 4.0 1.1 Phase Duration, s 7.2 80.2 8.4 81.4 15.0 27.9 10.6 23.5 Change Period, (Y+Rc), s 3.0 5.6 3.0 5.6 3.0 6.7 3.0 6.7 Max Allow Headway (MAH), s 3.2 3.2 3.2 0.0 0.0 3.2 3.2 3.2 Queue Clearance Time (g s), s 4.3 5.3 15.0 20.5 7.8 12.6 Green Extension Time (g e), s 0.1 0.0 0.2 0.0 0.0 0.7 0.0 0.7 Phase Call Probability 0.95 0.98 1.00 1.00 0.96 1.00 Max Out Probability 0.00 0.00 1.00 0.00 0.27 0.00 **Movement Group Results** EB WB NB SB Approach Movement L R L T R L R L R **Assigned Movement** 5 2 12 1 6 16 3 8 18 7 4 14 Adjusted Flow Rate (v), veh/h 83 662 118 671 213 252 93 149 Adjusted Saturation Flow Rate (s), veh/h/ln 1725 1745 1711 1772 1697 1681 1697 1678 Queue Service Time (g s), s 2.3 31.4 3.3 30.7 13.0 18.5 5.8 10.6 Cycle Queue Clearance Time (gc), s 2,3 31.4 3.3 30.7 13.0 18.5 5.8 10.6 Green Ratio (g/C) 0.64 0.60 0.65 0.14 0.60 0.26 0.17 0.21 Capacity (c), veh/h 379 1039 400 1071 296 294 177 235 Volume-to-Capacity Ratio (X) 0.218 0.638 0.296 0.627 0.720 0.859 0.524 0.635 Back of Queue (Q), ft/In (50 th percentile) 21.3 322.9 29.3 215 318.7 162 64.8 118.4 Back of Queue (Q), veh/ln (50 th percentile) 0.8 12.3 1.1 12.1 6.1 8.1 2.4 4.5 Queue Storage Ratio (RQ) (50 th percentile) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Uniform Delay (d 1), s/veh 13.5 16.8 41.2 13.1 16.0 50.9 43.4 51.6 Incremental Delay (d 2), s/veh 0.1 7.1 3.0 0.2 2.8 6.2 0.9 1.1 Initial Queue Delay (d 3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Control Delay (d), s/veh 13.6 19.8 13.3 18.8 48.4 57.0 44.3 52.6 Level of Service (LOS) D B В В В D F D Approach Delay, s/veh / LOS 19.1 В 18.0 В 53.1 D 49.4 D Intersection Delay, s/veh / LOS 29.0 C **Multimodal Results** EB WB NB SB Pedestrian LOS Score / LOS 1.89 В 1.89 1.95 В 1.95 В В Bicycle LOS Score / LOS 2.33 В 2.40 В 1.84 В 1.41

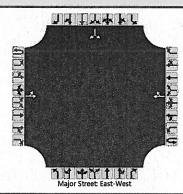
HCS7 Signalized Intersection Results Summary يا مؤ إ أحلامان إمال **General Information** Intersection Information Agency Schneider Engineering Duration, h 0.25 Analyst A.R. Analysis Date 11/6/2018 Area Type Other Jurisdiction NYSDOT Time Period PHF 0.95 Saturday Peak Urban Street NYS Route 25A **Analysis Year** 2018 **Analysis Period** 1>7:00 Intersection 25A with Wading River... File Name 25A w Wading River Existing Saturday Peak.xus **Project Description Exisiting Saturday Peak** ን ቀነተቀጥ ነር **Demand Information** EB WB NB SB Approach Movement R L R R L R 43 Demand (v), veh/h 70 640 120 85 409 176 139 93 158 157 63 Signal Information والع Cycle, s 127.0 Reference Phase 2 1 Offset, s 0 Reference Point Begin Green 4.0 12.0 20.8 0.0 0.6 71.3 Simult. Gap E/W Uncoordinated No On Yellow 3.0 0.0 4.7 0.0 3.6 3.0 Force Mode Float Simult. Gap N/S Red 0.0 0.0 2.0 0.0 2.0 0.0 On **Timer Results EBL EBT** WBL WBT NBL **NBT** SBL SBT **Assigned Phase** 5 2 1 6 3 8 7 4 Case Number 1.1 4.0 1.1 4.0 1.1 4.0 1.1 4.0 Phase Duration, s 7.0 76.9 7.5 77.5 15.0 27.5 15.0 27.5 Change Period, (Y+Rc), s 3.0 5.6 6.7 3.0 5.6 3.0 6.7 3.0 Max Allow Headway (MAH), s 3.2 0.0 3.2 0.0 3.2 3.2 3.2 3.2 4.2 Queue Clearance Time (gs), s 4.7 13.3 20.1 12.0 18.7 Green Extension Time (g_e), s 0.1 0.0 0.1 0.0 0.0 0.7 0.0 0.8 Phase Call Probability 0.93 0.96 1.00 1.00 1.00 1.00 Max Out Probability 0.00 0.00 1.00 0.03 1.00 0.01 **Movement Group Results** EB WB NB SB Approach Movement T L R L R L R L R **Assigned Movement** 5 8 2 12 1 6 16 3 18 7 4 14 Adjusted Flow Rate (v), veh/h 74 800 89 185 232 476 244 166 Adjusted Saturation Flow Rate (s), veh/h/ln 1725 1761 1711 1766 1697 1662 1697 1694 Queue Service Time (g s), s 2.2 45.5 19.9 11.3 16.7 2.7 18.1 10.0 Cycle Queue Clearance Time (g c), s 2.2 45.5 2.7 19.9 11,3 18.1 10.0 16.7 Green Ratio (g/C) 0.61 0.57 0.62 0.57 0.27 0.17 0.27 0.17 Capacity (c), veh/h 474 1003 269 1014 275 286 236 291 Volume-to-Capacity Ratio (X) 0.156 0.798 0.332 0.469 0.674 0.855 0.704 0.795 Back of Queue (Q), ft/In (50 th percentile) 20.8 494.7 25.9 208.7 132.3 216.4 121.6 194.3 Back of Queue (Q), veh/ln (50 th percentile) 8.0 18.9 1.0 7.9 5.0 8.1 4.6 7.3 Queue Storage Ratio (RQ) (50 th percentile) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Uniform Delay (d 1), s/veh 12.3 21.6 19.5 15.8 38.9 51.0 39.0 50.4 Incremental Delay (d 2), s/veh 0.1 0.3 1.6 5.2 7.8 5.2 6.6 9.9 Initial Queue Delay (d 3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Control Delay (d), s/veh 12.4 28.2 19.8 17.3 44.1 61.0 46.7 55.6 Level of Service (LOS) В C В В D E D E Approach Delay, s/veh / LOS 26.8 C 17.7 В 53.7 D 51.9 D Intersection Delay, s/veh / LOS 34.0 C **Multimodal Results** EB WB NB SB Pedestrian LOS Score / LOS 1.90 В 1.90 В 1.95 В 1.95 В Bicycle LOS Score / LOS 2.54 C 2.03 В 1.78 В 1.66

APPENDIX D:

Future No Build Capacity Analysis Reports

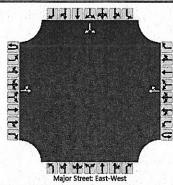


	HCS7 Two-Wa	ay Stop-Control Report	
General Information		Site Information	
Analyst	A.R.	Intersection	Dogwood/25A
Agency/Co.	Schneider Engineering	Jurisdiction	NYSDOT
Date Performed	11/6/2018	East/West Street	NYS Route 25A
Analysis Year	2018	North/South Street	Dogwood Dr
Time Analyzed	No Build Midday Peak	Peak Hour Factor	0.95
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	Venezia Square		



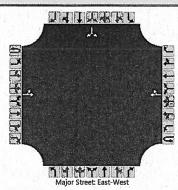
Approach	1 p. 14.	Eastb	ound			West	bound			North	bound			South	bound	
Movement	Ü	L	T	Ŗ	U	L	Т	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	Ö		0	0	0		0	1	0
Configuration		LT	100	100				TR							LR	
Volume (veh/h)		36	884				807	46						15		34
Percent Heavy Vehicles (%)		6		(A) P (A)					1					0		0
Proportion Time Blocked		0.000												0.000		0.00
Percent Grade (%)				10 17 4 1 16 18 1							P 42 16 -	1000		()	Barrier Barrie
Right Turn Channelized																
Median Type Storage				Undi	vided							4				
Critical and Follow-up He	eadwa	ways														
Base Critical Headway (sec)		4.1											15	7.1		6.2
Gritical Headway (sec)		4.16												6.40		6.20
Base Follow-Up Headway (sec)		2.2		1, 1, 2, 5										3.5		3.3
Follow-Up Headway (sec)		2.25												3.50		3.30
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)		38							I Varia						52	
Capacity, c (veh/h)		740													165	
v/c Ratio		0.05							4	1					0.31	
95% Queue Length, Q ₉₅ (veh)		0,2								F. e					1.2	
Control Delay (s/veh)		10.1					13.4								36.3	
Level of Service (LOS)		В													E	
Approach Delay (s/veh)		1	4			4.24							11.11.11	36	5.3	
Approach LOS															E	

	HCS7 Two-W	ay Stop-Control Report	
General Information		Site Information	
Analyst	A.R.	Intersection	Dogwood/25A
Agency/Co.	Schneider Engineering	Jurisdiction	NYSDOT
Date Performed	11/6/2018	East/West Street	NYS Route 25A
Analysis Year	2018	North/South Street	Dogwood Dr
Time Analyzed	No Build PM Peak	Peak Hour Factor	0.95
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	Venezia Square		



Approach		Eastb	ound			West	bound	1000		North	bound			South	bound	
Movement	υ	L	Ŧ	R	U	L	Т	R	Ü	L	T	R	U	ΙL	Ŧ	R
Priority	10	1	2	3	4U	4	5	6		7	8	9	1	10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		Ó	1	0
Configuration		LT						TR							LR	
Volume (veh/h)		35·	1094				1290	29						13		26
Percent Heavy Vehicles (%)		6		1										0		0
Proportion Time Blocked		0.000						U (U (U						0.000		0.000
Percent Grade (%)									The fire				91017	()	
Right Turn Channelized																
Median Type Storage				Undi	vided					100						1
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		4.1		181							111	4.4.4.1		7.1		6.2
Critical Headway (sec)		4.16												6.40		6.20
Base Follow-Up Headway (sec)		2.2			7			7	100		-77			3.5		3.3
Follow-Up Headway (sec)		2,25		1										3.50		3.30
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)		37	1												41	
Capacity, c (veh/h)		481													60	
v/c Ratio		0.08						-							0.68	
95% Queue Length, Q ₉₅ (veh)		0,2													2.9	
Control Delay (s/veh)		13.1			V. 70									11.11.31	147.3	1 (5 (5)
Level of Service (LOS)		В													F	
Approach Delay (s/veh)	3.1											2	14	7.3		
Approach LOS															F	i i

HCS7 Two-Way Stop-Control Report **General Information Site Information** Analyst Intersection Dogwood/25A Agency/Co. Schneider Engineering **NYSDOT** Jurisdiction Date Performed 11/6/2018 East/West Street NYS Route 25A Analysis Year 2018 North/South Street Dogwood Dr Time Analyzed No Build Saturday Peak **Peak Hour Factor** 0.95 Intersection Orientation East-West 0.25 Analysis Time Period (hrs) **Project Description** Venezia Square



Approach		Eastb	ound			West	bound		4	North	bound		7.15	South	oound	
Movement	Ü	L	T	R	Ú	L	Ť	R	Ų	L	Т	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6	V	7	8	9		10	11	12
Ñumber of Lanes	0	Ö	1	0	0	0	1	0		0	0	Ó		0	1	0
Configuration		LT						TR							LR	
Volume (veh/h)		29	1081				1032	26						11		20
Percent Heavy Vehicles (%)		6			1		100				11.			0		0
Proportion Time Blocked		0.000												0.000		0.000
Percent Grade (%)					ta p			1				11/		()	17.74
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		4.1					1 14							7.1		6.2
Critical Headway (sec)		4.16												6.40		6,20
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.25												3.50		3,30
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)		31				1									33	
Capacity, c (veh/h)		612													90	
v/c Ratio		0.05													0.36	
95% Queue Length, Q ₉₅ (veh)		0,2													1.4	
Control Delay (s/veh)		11.2		uli jiy	1. 1. 1.										66.2	
Level of Service (LOS)		В													F	
Approach Delay (s/veh)		1	8											66	5.2	
Approach LOS															Ē	

		HCS	37 Sig	nalize	ed In	terse	ction I	Resu	Its Su	ımmaı	у		A William		
Consullators	4.41												i de la constitución de la const	141141	T) E:
General Inform	nation	Io		-	***************************************					ction In	The same of the sa	on	_	1	P L
Agency	4 T = 27 = 1	Schneider Enginee	ering	4.4			-		Duratio		0.25	NEW TORSES OF THE PARTY OF THE	100		
Analyst		A.R.		-	-	e 11/6	-		Area Ty	pe	Other				سد
Jurisdiction		NYSDOT		Time I		THE PERSON NAMED IN	lay Peak		PHF		0.98				~_
Urban Street	***************************************	NYS Route 25A			MATERIAL PROPERTY AND PROPERTY	r 2018		CONTRACTOR	ASSESSMENT AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO PARTY OF THE PERSON NAMED	s Period	CONTRACTOR		*		
Intersection		25A with Wading R	THE PERSON NAMED IN COLUMN	File N	ame	25A	w Wadin	g Rive	r No Bu	ild Midda	y Peak	.xus	- P 1	ኘታ	1
Project Descrip	tion	No Build Midday P	eak											H DAY	114
Demand Inform	mation				EB			W	В		NB	- -		SB	
Approach Move	ement		de mande de la conse	L	T	R	L	Т	R	l L	T	R	E L	Т	R
Demand (v), v	*COMMENTAL PROPERTY NAMED IN COLUMN 2 IN C			104	646		-	-	-				155	103	90
Classification	41									- 11:	The same				
Signal Informa	127.0	Reference Phase			10	جلہ	7	Ħ	7	21			a	K .	人
Cycle, s			2			R	i i i	- 6	1 "	77	17	1	♦ 2	3	,
Offset, s	0	Reference Point	Begin	Green		0.5	70.1		4 0.6				K		
Uncoordinated	No	Simult. Gap E/W	On	Yellow	TITLE COMMERCE OF THE PARTY OF	0.0	3.6	3.0				<i>></i>	7	7	W
Force Mode	Float	Simult. Gap N/S	On	Red	0.0	0.0	2.0	[0.0	0.0	2.0		5	8	7	
Timer Results				EBI		EBT	WE	31	WBT	NB		NBT	SBI		SBT
Assigned Phase	e	Processor of the second beautiful to the second of the sec		5	-	2	1	-	6	3	-	8	7		4
Case Number				1.1		4.0	1.1	1	4.0	1.1		4.0	1.1		4.0
Phase Duration	1. S			8.2	minimum (76.2	7.7	Mineral Manager	75.7	15.	references periodesce	28.7	14.4	archiminatio sinationa	28.1
Change Period	-	c). s		3.0		5.6	3.0		5.6	3.0		6.7	3.0		6.7
Max Allow Head	TO CONTRACTOR OF THE PARTY OF T	raciola de enciol de civello addesse to Aldesse sidente da accepta de la companya de la companya de la company		3.2	-	0.0	3.2		0.0	3.2	rissidarensid (Jonasianes	3.2	3.2		3.2
	Clearance Time (g s), s					0.0	4.8	-	0.0	14.		21.3	11.5		16.2
nice esperation and interest in the contract of the contract o	Extension Time (g_{e}), s					0.0	0.1	mondament mon	0.0	0.0	motion to this continue	0.7	0.0	-	0.8
					3	0.0	0.9	-	0.0	1.0	-	1.00	1.00	-	1.00
Max Out Proba	Call Probability						0.0	-		1.0	-	0.07	1.00		0.00
								,		J'	e suma suma suma				
Movement Gro	OCCUPATION OF THE PROPERTY OF	suits makkamanismakamanismakamanismakamanisma		eccrecomorane company	EB			WB	NAMES AND ADDRESS OF THE PERSONS		NB 1 –			SB	
Approach Move	Maria de la companya della companya della companya della companya de la companya della companya			L	Т	R	L	Т	R	<u> L</u>	T	R	L	T	R
Assigned Move	*****************	ation at the south and the south and the south		5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow I	designation of the second	THE RESIDENCE WAS AND ADDRESS OF THE PARTY O		106	787		92	609		197	259		158	197	
NOTES DE LA CONTRACTA DE LA CO	of the last section in the	ow Rate (s), veh/h/	in i	1725	1760		1711	1767	edising in construction that is	1697	1656		1697	1643	
Queue Service				3.2	44.8		2.8	29.4	****	12.0	19.3	100	9.5	14.2	
Cycle Queue C	-	e lime (gc), s		3,2	44.8	-	2.8	29.4	nem processive contract	12.0	19.3		9.5	14.2	
Green Ratio (g	*******************			0.61	0.56		0.60	0.56		0.28	0.18		0.27	0.18	of the second of
Capacity (c), v	CERTIFICATION OF THE PARTY OF T	and a summer of the summer of		399	992		257	990	CONTRACTOR OF THE PARTY OF THE	303	299	ļ	228	290	
Volume-to-Capa	MARKET MARKET PROPERTY AND ADDRESS.	THE RESERVE OF THE PERSON NAMED IN THE PERSON		0.266	0.793		0.357	-	Maria Company	0.650		- HILLIAN PROPERTY NAMED IN	0.692	0.679	4414
	k of Queue (Q), ft/ln (50 th percentile)			30.3	489	-	27.5	314.	nich and the second	137.1	in annual transfer and		113.3	154.3	
THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME	k of Queue (Q), veh/ln (50 th percentile)			0.00	18.7		1.0	11.9		5.2	8.8		4.3	5.8	14 (A)
	eue Storage Ratio (RQ) (50 th percentile) form Delay (d 1), s/veh				0.00	-	0.00	0.00	end sonemenum	0.00	0.00		0.00	0.00	
	remental Delay (<i>d</i> ₂), s/veh				21.9 6.5		20.7	18.8		38.0	50.5		38.8	48.9	
	ial Queue Delay (d 3), s/veh				0.0		0.0	0.0		0.0	0.0	in a second	0.0	0.0	
Control Delay (COMMUNICATION OF THE PARTY OF T			0.0	28.4		21.0	21.6		41.8	62.9		45.5	50.2	- CHILDREN TWO
	vel of Service (LOS)				C		C C	C		D D	E E		D D	D	
	proach Delay, s/veh / LOS				7	C	21.		C	53.	the same of the same of	D	48.		D
	proach Delay, s/veh / LOS ersection Delay, s/veh / LOS						33.5		<u> </u>	55.	U	U	C 48.	l a la	ע
The section be	rsection Delay, s/ven / LOS						J.J.			ال_					
Multimodal Re	sults				EB			WB			NB			SB	
Pedestrian LOS	Score	/LOS		1.90)	В	1.9	Account of the last	В	1.9	-	В	1.9	-	В
Bicycle LOS Sc	ore / LC	O\$		2.57	7	С	2.2	6	В	1.8	2	В	1.59	9	В

		HCS	S7 Sig	nalize	d Inte	ersec	tion F	Resul	its Su	mmar	y				
General Inform	nation								Intersec	tion Inf	ormatic	on	1		b ()
Agency		Schneider Enginee	erina						Duration	- Company of the Comp	0.25		-	4 1	
Analyst		A.R.		Analys	sis Date	11/6/2	018		Area Typ		Other	•	- 2 5		
Jurisdiction		NYSDOT		Time I	en principal property from	PM P	-	the same of the same of	PHF		0.98		一		*-
Urban Street		NYS Route 25A			sis Year				Analysis	Period	1> 7:0	00	- 5		
Intersection		25A with Wading F	River	File N	THE REAL PROPERTY CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF THE PERS	and the same of th	, Wading	and the same of th		d PM Pe	- American	NAMES OF TAXABLE PARTY.			200
Project Descript	tion	No Build PM Peak	CONTRACTOR OF THE PERSON NAMED IN	THO IN	amo.	JZOA W	, wadii i	gitivei	140 Duli	u i w i e	Jan. Aug		ľ	TATE A	P(
Demand Inforn	nation				EB			WE			NB			SB	
Approach Move	iomanosyn victoria			L	I T	R	L	T	R	-	T	R		T T	R
Demand (v), v	_			110	649	156	160	772	-	230	170		124	99	73
Demand (V), V	CIVII			110	048	1 100	1 100	1112	2 1 100	230	1 170		124] 99	1 10
Signal Informa	tion					K		IJΠ		121					1
Cycle, s	127.0	Reference Phase	2		12	- 8	7. 1	<u>"</u> ا	٠ -		V		A	5	4
Offset, s	0	Reference Point	Begin				<u> </u>	5				1	Y 2	3	
Uncoordinated	No	Simult. Gap E/W	On	Green Yellow		1.6	68.2	9.5	2.5	21.4	100 S		4	1	. هند
Force Mode	Float	Simult. Gap N/S	On	Red	0.0	0.0	3.6	0.0	0.0	4.7 2.0		5	6	¥ ,	Y
, SIGO HIGGE	1 Toat	Jamail Oup 14/0	J On	<u> </u>	10.0	10.0	12.0	10.0	10.0	12.0				- 1	
Timer Results				EBI		EBT	WB	L	WBT	NBI		NBT	SBI		SBT
Assigned Phase) And			5		2	1		6	3		8	7	day i	4
Case Number				1.1		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration,	, s			8.5		73.8	10.2	2	75.4	15.0)	30.5	12.5	5	28.1
Change Period,	(Y+R	c), S		3.0		5.6	3.0		5.6	3.0		6.7	3.0		6.7
Max Allow Head	lway (/	MAH), s		3.2		0.0	3.2		0.0	3.2		3.2	3.2		3.2
Queue Clearand	ie Clearance Time (g s), s						7.1			15.0)	23.3	9.6		14.4
ANTICANA DE CONTROL DE	n Extension Time (g e), s					0.0	0.1	and the same of th	0.0	0.0		0.6	0.0		0.9
					3		1,00			1.00	-	1.00	0.99	9	1.00
Max Out Probab	e Call Probability Out Probability				2		0.15	minuscrision (amirus		1.00	name de como de la contraction del contraction de la contraction d	0.23	1.00		0.00
Movement Gro	un Res	sulte			EB			WB			NB			SB	
Approach Move	NUCLEO CONTROL			L	Т	R	L	T	R	L	T	R	L	T T	R
Assigned Mover	-			5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F	****) veh/h		112	821	12	163	890	10	235	287	10	127	176	17
		ow Rate (s), veh/h	/in	1725	1750		1711	1760		1697	1663		1697	1655	
Queue Service	trivita trivita trivita		111	3.6	51.2	*******	5.1	57.5	in formation in the same of th	13.0	21.3	-	7.6	12.4	1111
Cycle Queue Cl	****	NAME AND ADDRESS OF THE PARTY O		3.6	51.2		5.1	57.5	na managamenta	13.0	21.3		7.6	12.4	
Green Ratio (g/		G (III)G (y c), S	n. Y	0.60	0.54		0.62	0.56	and with the second	0.29		-	0.26		
Capacity (c), v	***************************************		antiqua scon many	195	953		257	981		321	0.20 325	-	202	0.18	
Volume-to-Capa	CONTRACTOR STATEMENT OF STREET	atio (X)	STATE OF THE PARTY	0.576	0.862	-	0.634	0.907		0.732	0.881	ļ	MANAGEMENT OF THE PARTY OF THE	0.602	-
THE RESIDENCE OF THE PERSON NAMED IN	STATE OF THE PERSON NAMED IN	/In(50 th percentile		-	-		-	THE REAL PROPERTY.	-		-		0.627	-	
decisaries for contracting properties for contract the state of the st	Directorios Chicago		maintain maintain	47.5 1.8	577.8		66.3	670.8	en announcement	171.7	267.4		85.3	134.9	
	ck of Queue (Q), veh/ln (50 th percentile)				22.1		2.5	25.4	and construction of the last	6.5	10.1		3.2	5.1	
	eue Storage Ratio (RQ) (50 th percentile)				0.00		0.00	0.00	DATE OF THE PARTY	0.00	0.00	ļ	0.00	0.00	-
	iform Delay (d 1), s/veh				24.8		24.8	25.2		39.0	49.6		39.6	48.2	
	remental Delay (d 2), s/veh ial Queue Delay (d 3), s/veh				10.1	1	1.1	13.5	-	7.3	16.0	V 23 3 3 3	2.2	0.7	
	ntrol Delay (d), s/veh				0.0		0.0	0.0		0.0	0.0	ļ	0.0	0.0	
CONTROL CONTRO					34.9		25.9	38.7		46.3	65.7		41.9	49.0	-
	vel of Service (LOS) proach Delay, s/veh / LOS				С		C	D		D	E	<u> </u>	D	D	
	laren sedarata edarasa.			34.2	4	C 4/	36.7		D	57.0)	E	46.0	U	D
Intersection Del	ay, s/ve	en / LUS				4(0.6			J			D		
Multimodal Res	sults				EB			WB			NB			SB	
Pedestrian LOS	Score	/LOS		1.90)	В	1.90)	В	1.98	5	В	1.9	5	В
Bicycle LOS Sc	ore/LO	OS		2.64	1	С	2,84	4	С	1.93	3	В	1.5	1	В

		HCS	37 Sig	nalize	d Int	erse	ction F	Resul	ts Su	mmar	У				
				1 A 1 A 1 A										ALLAT.	95 (P)
General Inform	nation								ntersec			on	_	4 7 4	× 4
Agency		Schneider Enginee	ering						Duration	**************************************	0.25	igiti	_2		•
Analyst		A.R.		-	sis Date			-	Area Typ	ре	Other		(d, 		3. 3·
Jurisdiction		NYSDOT		Time F	-	-	rdayPea		PHF		0.95		4		~_ }
Urban Street		NYS Route 25A	Last in	Analys	sis Year	2018			Analysis	Period	1> 7:0	00	<u> </u>		7
Intersection		25A with Wading R	liver	File Na	ame	25A	w Wadin	g River	No Buil	d Saturo	day Pea	k.xus		ጎ ጅ	1.455
Project Descript	tion	No Build Saturday	Peak											HITT	PC .
Demand Inforn	nation				EB			WE	<u> </u>	1	NB			SB	
Approach Move	ment	TO COMPACTOR OF THE PARTY OF TH		L	T	R	L	T	R	L	Т	R	L	Т	R
Demand (v), v	GENERAL BRANCH CHICAGO			101	805	142				202	143	135		162	98
				L	1 000		1 1119	, 550		1 202		100	1, 200	1	
Signal Informa	tion			1		1		U			, ui (1000				
Cycle, s	127.0	Reference Phase	2		12	-					K		a	× 1	4
Offset, s	0	Reference Point	Begin				<u> </u>			17		1	7 2	3	4
Uncoordinated	No	Simult. Gap E/W	On	Green		1.2	64.0	10.0					4		
Force Mode	Float	Simult. Gap E/W	On	Yellow Red	2.0	0.0	3.6 2.0	3.0 2.0	4.7	0.0	_			7	Y.
1 Orce Mode	livat	Joinfult. Gap N/S	Oii	Ireu	12.0	10.0	12.0	12.0	12.0	10.0	i.				
Timer Results				EBI		EBT	WB	L	WBT	NB		NBT	SBI		SBT
Assigned Phase	9			5		2	1		6	3		8	7		4
Case Number				1.1		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration	<u> </u>	er til selve skrikte og til storet kilomet kilomet kalende skrivet og skrivet skrivet skrivet skrivet skrivet		10.5		69.6	11.	-	70.8	15.0	distribution of the last	30.7	15.0	1	30.7
Change Period,		-) c		5.0		5.6	5.0		5.6	5.0		6.7	5.0		6.7
Max Allow Head	HETOGRAPHIC CONTRACTOR	rioritable translatable secretario de la constitución de la constitución de la constitución de la constitución		3.2	unamin mana	0.0	3.2		0.0	3.2	mineral desiration	3.2	3.2		3.2
CONTRACTOR OF THE PERSON NAMED IN COLUMN 1		THE RESIDENCE OF THE PARTY OF T		5.6	-	0.0			0.0				-	-	-
actions confidence and immediately an appropriate many dates	e Clearance Time (g_s), s Extension Time (g_e), s						6.7			13.0	MATERIAL PROPERTY.	23.3	13.0		21.2
	Extension Time (g e), s					0.0	0.1	-	0.0	0.0	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	0.7	0.0	THE RESERVE OF THE PERSON NAMED IN	0.9
note par l'outre de la calente, de parties, de parties, de partie par l'année de la calente de la calente de l	Call Probability				3		0.9	-		1.00	-	1.00	1.00		1.00
Max Out Probab	ut Probability			0.20)		0.8	8		1.00)	0.29	1.00)	0.10
Movement Gro	up Res	sults			EB			WB			NB			SB	
Approach Move	CDASS PRESCUENCE CONCORNE		ensonie entre orden en accessoration	L	T	R		Τт	R		T	R	L	T	R
Assigned Move	-			5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F	distributeis identification in	/ \ veh/h		106	997		125	675	1-1-	213	293		219	274	-
AND DESCRIPTION OF THE PERSON	THE RESERVE OF THE PERSON NAMED IN COLUMN	ow Rate (s), veh/h/	lin .	1767	1807		1767	1814		1753	1693		1753	1724	
Queue Service	and a supplemental contraction of the contraction o	ritari dani indratari dani dani dani dani dani dani dani dan	111	annimentation (65.0		-	36.0	maritament manageri dan	11.0	21.3		11.0	19.2	
	*****	MARKET COMMENT OF THE PROPERTY	MINISTER AND COL	3.6	-	100	4.7	-		-				\$1000000000000000000000000000000000000	
Cycle Queue Cl	directorial distribution	e inne (gc), s		3.6	65.0	-	4.7	36.0		11.0	21.3	1.23	11.0	19.2	
Green Ratio (g/	***************************************			0.56	0.51		0.57	0.52		0.28	0.20		0.28	0.20	
Capacity (c), v	SECURIOR DURCH SECURIOR	41-777		309	924	-	164	945	-	232	334		215	340	
Volume-to-Capa				0.344	1.078	THE REAL PROPERTY.	0.765	0.714	-	0.915	0.877		1.020	0.806	
Back of Queue	ck of Queue (Q), ft/ln (50 th percentile)			34.9	1012. 1		57	397.9		195.4	262.9		239.7	227.5	
The state of the s	ck of Queue (Q), veh/ln (50 th percentile)			1.4	39.5		2.2	15.5	- Communication	7.6	10.2		9.3	8.8	
Queue Storage	eue Storage Ratio (RQ) (50 th percentile)			0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
Uniform Delay (form Delay (d 1), s/veh				31.0		32.6	23.2		41.5	49.5		41.9	48.7	
Incremental Del	remental Delay (d 2), s/veh				53.1		8.6	4.6		36.1	15.4		66.8	8.1	
	al Queue Delay (d з), s/veh				0.0	A Charles	0.0	0.0	. (0.5)	0.0	0.0		0.0	0.0	
	ntrol Delay (d), s/veh				84.1		41.2	27.8		77.7	64.9		108.7	56.7	
	rel of Service (LOS)				F		D	С		Е	Е		F	Е	
CONTRACTOR OF STREET	proach Delay, s/veh / LOS			B 77.9	Language .	E	29.	-	C	70.	Accordance of the last of the	E	79.8	-	E
Intersection Del	Consideration of the Constitution	and the contraction of the contr				· vosciwionium	63.6		nan ni makanimi				E		
Multimodal Re	et occurrence of the contract of	THE STATE OF THE S			EB			WB	and the second second		NB			SB	
Pedestrian LOS	Score	/LOS		1.9	114	В	1.9	1	В	1.9	5	В	1.9	5	В
Bicycle LOS Sc	ore / LC	OS		2.92	2	С	2.4	2	В	1.9	0	В	1.82	2	В

APPENDIX E:

Future Build Capacity Analysis Reports

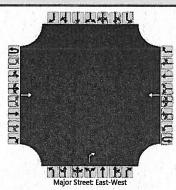


		HCS	S7 Sig	naliz	ed In	ters	sec	tion l	Resu	lts	Sun	nma	ry		1		
General Inform	nation				1004014											S (2)	The same
Agency	ilation	Sobneider Engine							THE RESERVE THE PROPERTY OF	NAME AND ADDRESS OF THE OWNER, WHEN	-	NAME OF TAXABLE PARTY.	formati	-		† 1∃7#1	Ja U
Analyst	WINDOWS CO.	Schneider Enginee A.R.	ering	T A						*****	ation,	-	0.25			·	
Jurisdiction		NYSDOT	-	-	/sis Da	and the same	-	1, 2018	CONTRACTOR OF THE PERSON NAMED IN	CENTER SECTION SHAPE	а Тур	9	Othe	-			د 2 ــد
Urban Street				-	Period		DOM: DOM: NO.	ay Peak	************	PHF	-	-	0.95	THE PERSON NAMED IN COLUMN	_₹-		,— <u>}</u>
Intersection		NYS Route 25A		TO SECULIAR STREET, SECURIAR STREET, SEC	/sis Ye	THE REAL PROPERTY.	DOMESTIC STREET		THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	000000000000000	alysis I			:00			* *
CHARLES AND ADDRESS OF THE PARTY OF THE PART	tion	25A with Dogwood		File N	lame	25	A w	/ Dogw	ood Dr	Mid	lday P	eak.xı	IS			_ 41	10 T T
Project Descrip	uon	Build Midday Peak														1 1 1 1 1 1 1	14
Demand Inforr	nation				EE	,,			WE	3			NB			SB	
Approach Move	ment	N. M.		L	T		R	L	Т		R	L	T	R	L	T	R
Demand (v), v	eh/h			36	88	1	79	74	807	7	46	83	5	46	15	5	34
Signal Informa	tion			l													ene a <u>r</u> ic decimen
Cycle, s	110.0	Reference Phase	Т .				5	∃ ,	십시	73					_		人
Offset, s	0		2				E	3	. 4	17					♦ ,	4.	rîa
Uncoordinated	nobscioniodiametroscier	Reference Point	Begin	Greer		1.		79.5	9.1		0.0	0.0			K		
	No	Simult. Gap E/W	On	Yellov		0.		4.0	4.0		0.0	0.0			7		W
Force Mode	Float	Simult. Gap N/S	On	Red	0.0	[0.	.0	2.0	2.0		0.0	0.0		5	0	7.	
Timer Results				EB		EBT		WB		WE	ат II	NB	<u> </u>	NBT	SB		CDT
Assigned Phase			- T	5	_	2	-	1		6	-	IND	_	8	SB	<u> </u>	SBT
Case Number				1.1		4.0		1.1		4.0				7.0			4
Phase Duration	. S			8.1		85.5		9.4	-	86.	-			15.1			8.0
Change Period,	CORRECTION OF THE PERSON OF TH	c). s		4.0	-	6.0		4.0	-	6.0	-			6.0		31	15.1
Max Allow Head	etono benerio l'imperio i aliano	and the second s		3.0	Mineral Lines	0.0	-	3.0		0.0	-	-		3.4	-		6.0
Complete and the comple	e Clearance Time (g_s), s					0.0		3.0	-	0.0	J			9.0			3.4
THE PARTY OF THE P	Extension Time ($g \in $), s					0.0		0.0	motorno francis	0.0	1			0.0			5.4
THE RESIDENCE OF THE PARTY OF T					9	0.0		0.9	CHARLES CHARLES	0.0		ar to protect		1.00			0.2
Max Out Probab	Call Probability ut Probability				2			1.00	ndeservicios (endreser					1.00			1.00 0.34
Mayarrant Cra	Man.	-14									/\						
Movement Gro Approach Move	THE PROPERTY OF THE PERSON NAMED IN COLUMN 1	uits		**************************************	EB				WB			-	NB	7		SB	
Assigned Mover	THE RESERVE THE PERSON NAMED IN			L	Т	R		L	Т	-	R	L	T	R	L	T	R
Adjusted Flow R	nchinaninkan animanina	V scale/le		5	2	12	2	1	6	1	16	3	8	18	7	4	14
CONTRACTOR OF THE PROPERTY OF	THE RESERVE OF THE PERSON NAMED IN	y, ven/n w Rate (s), veh/h/l		38	1014	and annual section		78	898	_		-	93	48		57	
Queue Service	CONTRACTOR OF THE PARTY OF THE	CONTRACTOR OF THE PROPERTY OF	n	1810	1843		_	1810	1852	-			1409	1610		1681	
Cycle Queue Cl				0.5	36.0	-		1.0	26.5	-			3.6	3.1		0.0	
Green Ratio (g/		e time (g c), s		0.5	36.0	-		1.0	26.5	-			7.0	3,1		3.4	
Capacity (c), ve		The tree of the tr	water the same of	0.78	0.73			0.79	0.74	-		andenne jan	0.09	0.09		0.09	
Volume-to-Capa	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	tio (X)		449	1349	THE CONTRACTOR AND		400	1378	-	_		192	147		195	
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	AND REAL PROPERTY.	iio (ス) In (95 th percentile)		0.084	0.751	THE OWNER WHEN PARTY AND P		0.195	0.652	editores			0.481	0.329	getterne to second	0.291	11444
	CONTRACTOR OF THE PARTY OF THE	Contract of the Contract of th	the second second second second	7.9	446.2	-	-	27	332.6	-			114.7	57.7		66.5	
	c of Queue (Q), veh/ln (95 th percentile)				17.6			1.1	13.1				4.6	2.3		2.7	
	ue Storage Ratio (RQ) (95 th percentile) orm Delay (d 1), s/veh				0.00	-		0.00	0.00	_			0.00	0.00		0.00	
	orm Delay (<i>d 1</i>), s/ven emental Delay (<i>d 2</i>), s/veh				8.8			9.4	7.0	-			48.6	46.8		47.0	
	al Queue Delay (d 3), s/veh				3.9	-		0.1	2.4	-			0.7	0.5		0.3	
	frol Delay (d), s/veh				0.0			0.0	0.0	-		peanjuune ya	0.0	0.0		0.0	10.5%
		10		6.6 A	12.7	-	_	9.5	9.4	4	_		49.3	47.3		47.3	
	el of Service (LOS) roach Delay, s/veh / LOS				В	<u></u>		Α	Α	<u></u>			D	D		D	100
	THE RESERVE OF THE PERSON NAMED IN			12.5	2	В		9.4		Α	-	48.6	<u> </u>	D	47.3	3	D
Intersection Dela	ıy, s/ver	17103			110		14.	.3							3		
Multimodal Res	ults				EB		T		WB				NB			SB	
	THE RESERVE OF THE PERSON NAMED IN	LOS	1 1 1 1 1	1.86		В		1.63	The Real Property lies and the Persons	В		1.95	-	В	1.95	-	В
	rian LOS Score / LOS LOS Score / LOS					В		2.10	CONTRACTOR OF THE PARTY OF THE	В		0.72	THE RESIDENCE OF THE PERSONS ASSESSMENT	A	0.58	THE RESERVE TO THE PERSON NAMED IN	D

THE THE OWN				14/2											
General Infor	mation							1	ntersect	ion Inf	ormatic	n	1	14141	L L
Agency		Schneider Enginee	ring				all trail of	1	Duration,	h	0.25			a фa	1
Analyst		A.R.		Analys	sis Date	Dec '	11, 2018		Area Typ	************	Other		4		
Jurisdiction		NYSDOT		Time I	Period	PM F	eak		PHF		0.95		· · · · · · · · · · · · · · · · · · ·		
Urban Street		NYS Route 25A		Analys	sis Year	2018	CARDO NECESARIO DE LA CONTRACTOR DE LA C	1	Analysis	Period	1> 7:0	00	7		
Intersection		25A with Dogwood	Dr	File N	CONTRACTOR OF THE PARTY OF THE	TO SHEET SHOW OF THE PARTY OF T	v Dogwo	and the same of the same	PM Peak					اج چ	
Project Descri	ption	Build PM Peak								Tyrenda			1	PELLET	11
Demand Info	mation				EB			WB			NB			SB	
Approach Mov	antoniamino commonwelumento		otom moreonemocom unde	L	T	R	L	T	R		T	R	L	ΙT	
Demand (v),	the same of the same			35	1094	71	84	1290		75	3	52	13	3	1 2
				Jt	1001			1,20		-ll		02	1	1	
Signal Inform	ation	/ The control of the				1 6					www.mrkemex				1
Cycle, s	110.0	Reference Phase	2		7 6	- 1		***			¥		4		4
Offset, s	0	Reference Point	Begin	Cross	111	14.5	3			0.0		1	2	3	
Uncoordinated	No	Simult. Gap E/W	On	Green	4.1	0.0	80.2 4.0	8.2 4.0	0.0	0.0		7	}		K
Force Mode	Float	Simult. Gap N/S	On	Red	0.0	0.0	2.0	2.0	0.0	0.0		5	8	7	
Fimer Results	and the first of the first of			EBI		EBT	WB		WBT	NB		NBT	SBI		SB
Assigned Phas	***			5	-	2	1			INB		8	30	-	-
Assigned Pha Case Number	36			1.1		4.0	1.1		6						4
Phase Duratio	n e			8.1		anticipality of the second	9.6		4.0		-	7.0			8.0
	-) s			MATERIAL PROPERTY.	86.2 6.0	-		87.7			14.2			14.2
Change Period Max Allow Hea	wises with the language files	etini kitantan (itanian ili tantan ili tan an kalimatan ili karlanda ili katan ili katan ili katan ili katan ili		3.0	ainminin animani	0.0	4.0 3.0		6.0 0.0		uitamini miina	6.0			6.0
The state of the s	A STATE OF THE PARTY OF THE PAR			2.5	MARCHANICA CONTRACTOR	0.0	3.0	-	0.0			3.4			3.4
	e Clearance Time (g $_{s}$), $_{s}$ Extension Time (g $_{e}$), $_{s}$				-	0.0	0.0		0.0		NAME OF TAXABLE	8.2			4.7
A management of the section of the section of	Extension Time (g e), s Call Probability				History Constitution of the Constitution of th	0.0	and and the second of the second	THE PERSON NAMED IN COLUMN	0.0			0.1			0.2
aminateshinegatean kenerap kesasan ketasah kes					3		0.93	-			utraniouser (interciales	1.00		interest de la company	1.00
viax Out FIUD	ut Probability						JI 1.00	,				1.00			0.16
Movement Gr	oup Res	sults			EB			WB			NB			SB	
Approach Mov	ONE CONTROL OF THE PARTY OF THE			L	ΙΤ	R	L	Т	R	L	ΙT	R	L	Т	Ti
Assigned Mov	THE RESERVE OF THE PARTY OF THE			5	2	12	1	6	16	3	8	18	7	4	1
Adjusted Flow	***********************), veh/h		37	1226		88	1388			82	55		44	1
CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		ow Rate (s), veh/h/	n	1810	1850		1810	1863			1415	1610		1669	T
Queue Service	SERVICE OF STREET, STR	mod hattoid hammadaine to marrie the military of the control of th	W	0.5	56.7		1.1	79.9		design of the latest	3.5	3.5	and the state of t	0.0	1
		e Time (<i>g c</i>), s		0.5	56.7		1.1	79.9			6.2	3,5		2.7	
Green Ratio (CONTRACTOR OF THE PERSON AND ADDRESS OF THE		1011	0.78	0.74		0.80	0.75		Y The same	0.08	0.08	2.17.11	0.08	\vdash
Capacity (c),	THE RESERVED TO SERVED THE PARTY OF THE PART			149	1365	пи-жили син	277	1401			183	135		183	
Volume-to-Car	CHARLES CHARLES AND ADDRESS OF THE PARTY OF	tio(X)		0.248	CONTRACTOR OF THE PARTY OF THE		0.320	0.991			0.449	0.405		0.241	+
NAME OF TAXABLE PARTY OF TAXABLE PARTY.	-	In (95 th percentile)	32	691.3		61.5	1005.			101.6	66.3		51.9	
Back of Queue	k of Queue (Q), veh/ln (95 th percentile)			1.3	27.2		2.5	39.6			4.1	2.7		2.1	-
end-transdeptote deleterable transdeptote delta and the	ue Storage Ratio (RQ) (95 th percentile)			0.00	0.00	***************************************	0.00	0.00			0.00	0.00	**************************************	0.00	1
	orm Delay (d_1), s/veh			32.6	11.2		20.7	13.3			49.0	47.8	7, 1	47.4	+
	emental Delay (d 2), s/veh			0.3	9.6		0.2	22.0			0.6	0.7		0.3	
THE PARTY OF THE P	al Queue Delay (d 3), s/veh				0.0		0.0	0.0			0.0	0.0		0.0	T
with the second	trol Delay (d), s/veh			32.9	20.8		20.9	35.3			49.6	48.5		47.6	\dagger
	el of Service (LOS)			C	C		C	D			D	D		D	+
Contractor of the state of the	-	/LOS		21.2	Action (parties	С	34.5		С	49.2		D	47.0	and the same of the same of	D
	oproach Delay, s/veh / LOS tersection Delay, s/veh / LOS					-	9.6			70.2		ntrutant automatic	2		
ntersection De	STOCKET DOILY, STOCKET LOC														
				li .			-E			(m)					
Intersection De Multimodal Re Pedestrian LO		41.00		1.89	EB	В	1.62	WB	В	1.9	NB	В	1.9	SB	В

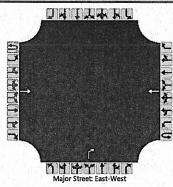
HCS7 Signalized Intersection Results Summary يا ما يا ماي له ل General Information Intersection Information Agency Schneider Engineering Duration, h 0.25 Analyst A.R. Analysis Date | Dec 11, 2018 Other Area Type Jurisdiction NYSDOT Time Period Saturday Peak PHF 0.95 **Urban Street** NYS Route 25A Analysis Year **Analysis Period** 1>7:00 2018 Intersection 25A with Dogwood Dr File Name 25A w Dogwood Dr Saturday Peak.xus **Project Description Build Saturday Peak** ን 4 የተለም ኮር **Demand Information** EB WB NB SB Approach Movement L T R L T R L T R L T R Demand (v), veh/h 29 129 2 2 1081 121 1032 26 118 65 11 20 Signal Information 110.0 Reference Phase Cycle, s 517 Offset, s 0 Reference Point Begin 78.1 Green 3.6 2.2 10.0 0.0 0.0 Uncoordinated No Simult. Gap E/W On Yellow 4.0 0.0 0.0 4.0 4.0 0.0 Force Mode Float Simult. Gap N/S On Red 0.0 0.0 2.0 2.0 0.0 0.0 **Timer Results EBL EBT** WBL WBT NBL **NBT** SBL SBT **Assigned Phase** 5 2 1 6 8 4 Case Number 1.1 4.0 1.1 4.0 7.0 8.0 Phase Duration, s 84.1 86.4 16.0 7.6 9.9 16.0 Change Period, (Y+Rc), s 4.0 6.0 4.0 6.0 6.0 6.0 Max Allow Headway (MAH), s 3.0 0.0 3.0 0.0 3.4 3.4 Queue Clearance Time (gs), s 2.5 3.7 11.7 4.0 Green Extension Time (g e), s 0.0 0.0 0.0 0.0 0.2 0.0 Phase Call Probability 0.61 0.98 1.00 1.00 Max Out Probability 0.35 1.00 1.00 0.11 **Movement Group Results** EB WB NB SB Approach Movement L T R L T R L T R L Т R 5 2 1 3 18 7 4 14 Assigned Movement 12 6 16 8 Adjusted Flow Rate (v), veh/h 31 1274 127 1114 126 68 35 Adjusted Saturation Flow Rate (s), veh/h/ln 1810 1835 1810 1862 1416 1610 1697 Queue Service Time (q s), s 0.5 70.0 1.7 42.6 7.6 4.4 0.0 Cycle Queue Clearance Time (gc), s 0.5 70.0 4.4 1.7 42.6 9.7 2.0 0.76 Green Ratio (g/C) 0.72 0.79 0.74 0.10 0.10 0.10 Capacity (c), veh/h 309 1320 215 1377 207 161 213 Volume-to-Capacity Ratio (X) 0.099 0.965 0.592 0.809 0.612 0.425 0.163 Back of Queue (Q), ft/ln (95 th percentile) 12.6 913.8 115.2 518 166.2 81.9 39.6 Back of Queue (Q), veh/ln (95 th percentile) 36.0 0.5 4.6 20.4 6.6 3.3 1.6 Queue Storage Ratio (RQ) (95 th percentile) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Uniform Delay (d 1), s/veh 12.3 14.2 30.6 9.3 48.9 46.5 45.5 Incremental Delay (d 2), s/veh 0.1 17.7 5.2 0.7 2.9 3.8 0.1 Initial Queue Delay (d 3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Control Delay (d), s/veh 33.5 14.5 52.7 47.2 45.6 12.3 31.8 Level of Service (LOS) В C C В D D D 31.4 Approach Delay, s/veh / LOS 50.8 C 16.4 B D 45.6 D Intersection Delay, s/veh / LOS 26.2 C 1. 1. 1. 1. 1. **Multimodal Results** EB WB NB SB Pedestrian LOS Score / LOS 1.86 В 1.63 В 1.95 В 1.95 В 2.64 C Bicycle LOS Score / LOS C 2.54 0.81 A 0.54

	HCS7 Two-W	ay Stop-Control Report	
General Information		Site Information	
Analyst	A.R.	Intersection	Right Turn Only Exit/25A
Agency/Co.	Schneider Engineering	Jurisdiction	NYSDOT
Date Performed	11/15/2018	East/West Street	NYS Route 25A
Analysis Year	2018	North/South Street	Venezia Driveway
Time Analyzed	Build Midday Peak	Peak Hour Factor	0.95
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	Venezia Square		



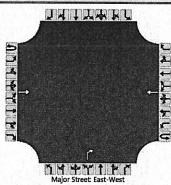
Approach	11 4.91	East	bound	11		West	bound			North	bound	14 May 1		South	bound	
Movement	U	L	Ť	R	U	L	T	R	U	L	Ť	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	1		0	0	0
Configuration			Т				Т					R				
Volume (veh/h)			945				900					32				
Percent Heavy Vehicles (%)	4 7	i de la companya de l			1 1 1	1. A A.						1				
Proportion Time Blocked																
Percent Grade (%)											0					
Right Turn Channelized									77.77	١	10					
Median Type Storage				Undi	ivided		pi An	Andrea forest zinoù								
Critical and Follow-up H	eadway	/S														
Base Critical Headway (sec)				77							177	6.2				
Critical Headway (sec)												6.21				
Base Follow-Up Headway (sec)	1 80 7 3						11 11 11					3.3				10.10
Follow-Up Headway (sec)												3.31				
Delay, Queue Length, an	d Level	of S	ervice													
Flow Rate, v (veh/h)							112.	2-17	67			34		1 1 A		y jilay
Capacity, c (veh/h)												298				
v/c Ratio												0.11				
95% Queue Length; Q ₉₅ (veh)												0.4				
Control Delay (s/veh)												18.6	ča ir. v		14.45	
Level of Service (LOS)												С				
Approach Delay (s/veh)										18	8.6					
Approach LOS											С					

	HCS7 Two-Wa	ay Stop-Control Report	
General Information		Site Information	
Analyst	A.R.	Intersection	Right Turn Only Exit/25A
Agency/Co.	Schneider Engineering	Jurisdiction	NYSDOT
Date Performed	11/15/2018	East/West Street	NYS Route 25A
Analysis Year	2018	North/South Street	Venezia Driveway
Time Analyzed	Build PM Peak	Peak Hour Factor	0.95
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	Venezia Square		



Vehicle Volumes and Ad	justme	nts														
Approach		East	bound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	T	Ř	U	L	Т	R	U	Ĺ	T	R
Priority	10	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	1		0	0	0
Configuration			Т				Т					R				
Volume (veh/h)			1159				1159					36				
Percent Heavy Vehicles (%)		1,121					145 T 3 T		1 1			1		8,191		
Proportion Time Blocked																
Percent Grade (%)				, A. A							0					
Right Turn Channelized										١	lo					
Median Type Storage				Undi	vided											
Critical and Follow-up H	eadway	/S														
Base Critical Headway (sec)												6.2				
Critical Headway (sec)												6.21				
Base Follow-Up Headway (sec)									11/7/19			3.3				
Follow-Up Headway (sec)												3.31				
Delay, Queue Length, an	d Leve	of S	ervice													
Flow Rate, v (veh/h)												38				
Capacity, c (veh/h)												221				
v/c Ratio												0.17				
95% Queue Length, Q ₉₅ (veh)												0.6				
Control Delay (s/veh)				111								24.7				1111
Level of Service (LOS)												С				
Approach Delay (s/veh)										2	4.7					
Approach LOS											C					

	HCS7 Two-W	ay Stop-Control Report	
General Information		Site Information	
Analyst	A.R.	Intersection	Right Turn Only Exit/25A
Agency/Co.	Schneider Engineering	Jurisdiction	NYSDOT
Date Performed	11/15/2018	East/West Street	NYS Route 25A
Analysis Year	2018	North/South Street	Venezia Driveway
Time Analyzed	Build Saturday Peak	Peak Hour Factor	0.95
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	Venezia Square		



The second secon		1 1 1	Talky in		Majo	or Street: E	ast-West								
Vehicle Volumes and Ad	justme	nts													
Approach		East	bound	5		West	bound			North	bound		South	bound	
Movement	U	L	T	R	U	L	T R U L T R U L			Т	R				
Priority	1U	1	2	3	4U	4	5	6		7	8	9	10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	Ö	1	0	0	0
Configuration			Т	WHEEL PROPERTY AND ADDRESS OF THE PARTY AND AD			T		A SE			R			
Volume (veh/h)			1157				980					46			
Percent Heavy Vehicles (%)										11		1			V. 1
Proportion Time Blocked															
Percent Grade (%)	7 17 11			111							0				
Right Turn Channelized										N	lo				
Median Type Storage				Undi	ivided				100			3 10	4. 1. 1.		
Critical and Follow-up H	eadway	/S													
Base Critical Headway (sec)		611, ₁₇ 71							4.4			6.2			
Critical Headway (sec)												6.21	engler ar nere		
Base Follow-Up Headway (sec)					1 1 1 1 1			100				3.3			
Follow-Up Headway (sec)												3.31			
Delay, Queue Length, an	d Leve	of S	ervice												
Flow Rate, v (veh/h)								11 A		1.11		48			100
Capacity, c (veh/h)												221			
v/c Ratio		30 3 3 3 3 3							1			0.22			
95% Queue Length, Q ₉₅ (veh)												0.8			
Control Delay (s/veh)							Tary 1			674		25.8			t), (1), (1)
Level of Service (LOS)												D			
Approach Delay (s/veh)										2!	5.8	1			
Approach LOS											D				

Schneider Enginee A.R. NYSDOT NYS Route 25A 25A with Wading R Build Midday Peak	ering	LAnah					Interse	ation In				7.7.7.1.7	
A.R. NYSDOT NYS Route 25A 25A with Wading R	ering	Analy											(F)(\$771,1677)
A.R. NYSDOT NYS Route 25A 25A with Wading R	aring .	Analy					-	-	NAME OF TAXABLE PARTY.	-	_	्र इस्ट्राक्टर	b t
NYSDOT NYS Route 25A 25A with Wading R				- 4410	10010	3 1.70	Duratio	***********	0.25	****************		, ,	(J.C.)
NYS Route 25A 25A with Wading R		-	sis Dat		THE RESERVE TO SERVE THE PARTY OF THE PARTY		Area T	ype	Othe	-			.25.
25A with Wading R		-		THE PERSON NAMED IN	day Peal	K	PHF		0.98		\ 2		بر
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		LOV/Intrastable Contractor	<u> </u>	-	-	3L	endennes en		L	-	-	-	SBT
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		-	-	THE RESERVE OF THE PERSON NAMED IN	-	-		_	-	-		-	28.1
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				0.0	-	-	0.0		-	THE RESERVE THE PERSON NAMED IN	3.2	1	3.2
eue Clearance Time (g s), s					nier tenienenstelle	THE PERSON NAMED IN COLUMN		and James and Marian	manuscript Common	COTTO CONTRACTO CONTRACTO	of homeone		17.0
ge), S		(ctransfel/transfel/transfel	THE PERSON NAMED IN	0.0	- Contraction of Contraction	-	0.0	THE RESERVE THE PERSON NAMED IN		THE RESERVE THE PERSON NAMED IN	Transport of the latest of the	-	8.0
						-	in the second	-	-	****	-		0.01
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ara b /b		-	**************	12		· · ·	16	-	-	18		4	14
		and an analysis and the last	-		-	-		-	-		-	205	
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		- MATERIAL PROPERTY IN THE	-		-	·)	ner) announcement	-			-	Compression of the last	
mile (<i>g c</i>), s		-	-		-	-					-		
		CHARLES BURGOSTON	CHINESESSESSESSESSESSESSESSESSESSESSESSESSE	and the second	THE REAL PROPERTY.	-		THE PERSON NAMED IN COLUMN TWO	CONTRACTOR OF THE PERSON NAMED IN	inadion-some	- Interconstruction	Accession and the later of the	
(X)		CONTRACTOR OF THE	- universal and a second		OC THE REAL PROPERTY.	-	-	es whose managements	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS		A Danis and the same of the sa	-	
		and the same of the same of	CONTRACTOR CONTRACTOR		The statement of the statement of	-	-	-	L		-	And the second second second	
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		the same of the same of	-			CAMPAGEMENT			THE PERSON NAMED IN COLUMN TWO		The second second	-	
		CHIMINEN !	MODEL OF THE PARTY		THE REAL PROPERTY.	- minner	-	or constant and	DEDICATE OF THE PARTY.		- munommunana	Carnennummon	note retness
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al Queue Delay (d 3), s/veh			_			-		-	-			The second second	δ 1812 a.s.
trol Delay (d), s/veh			THE PROPERTY AND PARTY AND	treminantivaes	A MINISTER WATER	CONTRACTOR		THE RESERVE THE PARTY OF THE PA	THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O	CARLES THE SALES	CHICALIDACIAN PRODUCT	Commission of the last of the	INC. INC. IN CO.
el of Service (LOS)			***************************************		-	THE RESERVE THE PARTY OF THE PA	-	THE PERSON NAMED IN	and the second s		PARTITION OF THE PARTIT	THE REAL PROPERTY.	
proach Delay, s/veh / LOS				С		Annes and Section 1	C	- Commission	-	F			D
tersection Delay, s/veh / LOS					and the same of th			50.0			9		
ultimodel Double													
						WB			NB			SB	
US		populación de la companie de la comp	THE REAL PROPERTY.	Marian Marian Marian	-	**************************************		-	CONTRACTOR CONTRACTOR	В	The same of the sa	THE REAL PROPERTY.	В
dinated No Simult. Gap E/W ode Float Simult. Gap N/S of Simults. G		Reference Point Begin Simult. Gap E/W On Simult. Gap N/S On Simult. Ga	Reference Phase 2 Reference Point Begin Simult. Gap E/W On Red Simult. Gap N/S On Red EB 5 1.1 8.5 9. S AH), S 9. S 9. S 10. S 11.	Reference Phase 2 Green 4.7 Yellow 3.0 Red 0.0 Red	Reference Phase 2 Reference Point Begin Simult. Gap E/W On Simult. Gap N/S On Red 0.0 0.0 EBL EBT 5 2 1.1 4.0 8.5 76.1 4.7 0.8 8.5 76.1 6.1	Reference Phase 2	Reference Phase 2 Reference Point Begin Simult. Gap E/W On Simult. Gap E/W On Red 0.0 0.0 3.6 3.0 Red 0.0 0.0 2.0 0.0 Red 0.0 0.0 Red 0.0 0.0 2.0 0.0 Red 0.0 0.0 Red 0.0 0.0 Red 0.0 0.0 Red 0.0 0.0 0.0 Red 0.0 0.0 Red 0.0 0.0 0.0 Red 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Reference Phase 2 Green 4.7 0.8 69.7 11.4 0.6 7 11.4 0.6 7 11.4 0.6 1.5 1.1 1.1 1.4 0.6 1.5	Reference Phase 2 Reference Point Begin Simult. Gap E/W On Simult. Gap E/W On Red 0.0 0.0 3.6 3.0 0.0 4.7 Yellow 3.0 0.0 3.6 3.0 0.0 0.0 2.0 Red 0.0 0.0 0.0 2.0 0.0 0.0 0.0 2.0 Red 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Reference Phase 2 Green 4.7 0.8 69.7 11.4 0.6 21.4 7 7 1.5 1	Reference Phase 2 Green 4.7 0.8 69.7 11.4 0.6 21.4 7 1.5	Reference Phase 2 Reference Point Begin Green 4.7 0.8 69.7 11.4 0.6 21.4 0.8 0.0	Reference Phase 2 Reference Phase 2 Reference Phase 2 Reference Point Begin Green 4.7 0.8 69.7 11.4 0.6 21.4 2 3 3 3 5 3 5 2 5 2 1 6 6 3 8 7 7 1 1 1 4.0 1.1 1.1 4.0 1.1 4.0 1.1 1.1 4.0 1.1 1.1 4.0 1.1 1.1 4.0 1.1 1.1 4.0 1.1 1.1 4.0 1.1 1.1 4.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1

		HCS	S7 Sig	naliz	ed Ir	ite	rsec	ction	Resu	ilts	Sun	nma	ry				- u - 1
General Inform	nation															0.2.61	
Agency	nation	Schneider Enginee			-			-		-	-	THE PERSON NAMED IN COLUMN 2 IS	format	ion		4 L	
Analyst	PRINTER MANAGEMENT	A.R.	ering	T A = -1		. 1	44101	00.10			ation,		0.25			. + 4	-
Jurisdiction		NYSDOT		ON PERSONAL PROPERTY.	sis Da	-	***			Area	*****	е	Othe	r	4		A 3
Urban Street				-	Perioc		PM P			PHF			0.98				·- !
Intersection		NYS Route 25A		THE REAL PROPERTY.	sis Ye	MINISTER STATE	CONTRACTOR OF THE PARTY OF THE	Maria Ma				Period			** ***		7
Project Descrip	tion	25A with Wading R Build PM Peak	diver	File N	lame		25A v	w Wadir	ng Rive	r Buil	ld PN	/ Peak	_As Is.	xus	7 15	ጎ ት	*: 7
i roject bescrip	dion	Jouild Fivi Feak		2												ን ተጠትን	ILL.
Demand Inform					EE	3			W	В			NB			SB	
Approach Move	Market Street Street Street Street			L	T		R	L	T		R	L	T	R	L	T	R
Demand (v), v	eh/h	Al Control		120	71	1	172	160	83	1	100	250	170	111	124	99	78
Signal Informa	ition				100		,					TH:			72 T	om sometiments.	
Cycle, s	127.0	Reference Phase	2		7	H		∄ :	Ħ	2		21	F-14		7	K	人
Offset, s	0	Reference Point	Begin				ang in	F 3	_ ~		51	7 5	17	1	♦ 2	3	A
Uncoordinated	No	Simult. Gap E/W	On	Greer			0.7	68.0			2.5	21.	4		٨		
Force Mode	Float	Simult. Gap N/S	On	Yellow	v 3.0 0.0		0.0	3.6	3.0		0.0	4.7				7	V
				J. 100	10.0		0.0	12.0	70.0		0.0	12.0	k e	P			1 8
Timer Results		The thirt has the him to the trace.		EB	L	E	ЗТ	WE	BL	WB	т∥	NB	L	NBT	SB	L	SBT
Assigned Phase	Э			5		2	2	1		6		3		8	7		4
Case Number				1.1		4.	0	1.1		4.0		1.1		4.0	1.1		4.0
Phase Duration			30 2 2 2 3	9.6		73	.6	10.	3	74.3	3	15.0)	30.5	12.	decisions bearing	28.1
Change Period,				3.0		5.	6	3.0)	5.6		3.0		6.7	3.0		6.7
	Allow Headway (MAH), s			3.2		0.	0	3.2	2	0.0		3.2		3.2	3.2	-	3.2
Queue Clearan	eue Clearance Time (g s), s			6.6				7.2	2			15.0	5	23.3	9.6		14.9
Green Extensio	n Time ((ge), s		0.1		0.	0	0.1		0.0		0.0	nidemental medicina	0.6	0.0	manufacture (manufacture	0.9
Phase Call Prob	ability			0.99	9			1.0	0	a conjument		1.00		1.00	0.9		1.00
Max Out Probab	oility			0.07	7			0.1	7			1.00)	0.24	1.0		0.00
Movement Gro	up Res	ults			EB				WB				NB			OD.	
Approach Move	CHORECTON CONTRACTOR			L	T	T	R		T	TF	2		T	T D		SB T =	T
Assigned Mover				5	2	+	12	1	6	10	-	3	8	18	7	4	R
Adjusted Flow F	*************), veh/h		122	901	+	12	163	950	1	-	255	287	10	and the same of th		14
		w Rate (s), veh/h/l	n	1725	1750	+		1711	1762	+		1697	1663		127	181	
Queue Service				4.6	61.7	-		5.2	67.0	m Johnstone		13.0	21.3	-	1697	1651	
Cycle Queue Cl				4.6	61.7	,		5.2	67.0			13.0	21.3		7.6	12.9	
Green Ratio (g/	THE RESERVE AND ADDRESS.		- \$1 - A - A	0.60	0.54	-		0.61	0.55			0.29	0.20		7.6 0.26	12.9	
Capacity (c), ve	THE RESERVE THE PARTY OF THE PA			160	950	+		203	967	+	-	316	325		202	0.18	-
Volume-to-Capa	NAME OF TAXABLE PARTY.	tio (X)		0.764	0.949			0.805	0.982	+	-	0.807	0.881		0.627	291 0.621	
		n (50 th percentile)		55.2	744.3	-		82.7	849.2	-	-	75.3	267.3		85.3	139.3	
		h/ln (50 th percenti		2.1	28.4	and annual or		3.1	32.2	+	-	2.8	10.1		3.2	5.2	
		RQ) (50 th percent		0.00	0.00	+		0.00	0.00			0.00	0.00		0.00	0.00	
Uniform Delay (33.9	27.4	1		28.9	28.0	+-	accuracy in	40.9	49.6		39.6	48.4	
Incremental Dela	****			4.4	19.2			9.8	24.9			13.3	16.0		2.2	0.8	
THE STATE SHARE SH	al Queue Delay (d 3), s/veh			0.0	0.0	T		0.0	0.0			0.0	0.0		0.0	0.0	
	trol Delay (d), s/veh			38.3	46.5			38.7	53.0	-		54.2	65.7		41.9	49.2	
Contraction of the Contraction o	rel of Service (LOS)			D	D	†		D	D	-	\dashv	D D	65.7 E		D D	49.2 D	
MAINTENANT TO THE PARTY OF THE	pproach Delay, s/veh / LOS			45.5	desergia de la constante	D		50.9	Contracted Streets	D		60.3	-	E	46.2		D
	tersection Delay, s/veh / LOS						50	-				00.0			D 40.2		U
			f1														
THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	timodal Results				EB				WB				NB			SB	
Pedestrian LOS	C0000000000000000000000000000000000000			1.90		В	STORESTONE S	1.90)	В		1.95		В	1.95		В
Bicycle LOS Sco	re / LO	S		2.79		С		2.94		С		1.96		В	1.51		В

		HCS	37 Sig	ınaliz	ed In	ıte	rsec	ction	Resu	ilts	Su	mma	ry				
General Infor	mation									Int		stion le	£			7 4 J/14 t	TUT I
Agency	nation	Schneider Enginee	ring			respetazione	100			-	-	-	formati	on	_		144
Analyst		A.R.	ang	Analy	/sis Da	to	11/6/	2010		-	ration	***********	0.25				3
Jurisdiction		NYSDOT		and the same of the same of	Period	-	-	dayPea	de	PH	еа Тур	ЭЕ	Othe	Γ	 		ا المحدد
Urban Street		NYS Route 25A		-	sis Ye	***********	2018		IK .	*************	-	Dariad	0.95	00		w j ·	,- ·
Intersection		25A with Wading R	livor	File			THE REAL PROPERTY.	v Wadin	na Diva		MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND	Period		***************************************			ě
Project Descrip	otion	Build Saturday Pea	AND DESCRIPTION OF THE PARTY OF	prine r	varrie		ZJAV	v vvauii	ig Kive	i Di	ulia S	aturday	Peak_	AS IS.X		ጎ ሶ የቴክቴፕ	110
Demand Infor				V		,,,,,,										or war in or par	
Approach Move	NAMES OF TAXABLE PARTY.			-	EE	5		-	W	-			NB	tomeproissinningia		SB	
Demand (v),	COLUMN TO PERSONAL PROPERTY AND ADDRESS OF THE P			140	T		R	L	Т		R	L	T	R		Т	R
Demand (V),	/en/m			110	89	1	157	119	63	5	82	235	143	13	5 208	162	110
Signal Informa	ation			1					R					2000		Market of the second	
Cycle, s	127.0	Reference Phase	2		1	~	4	7.	Θ.	7					7	~	
Offset, s	0	Reference Point	Begin					3	- 6	1		7		1	Y 2	3	4
Uncoordinated	No	Simult. Gap E/W	On	Greer Yellov		()	0.9	64.0 3.6	3.0		24.0 4.7			_	A		
Force Mode	Float	Simult. Gap N/S	On	Red	2.0		0.0	2.0	2.0		2.0	0.0		5	6	7	Y
	****************							J-11-1-11-11-11-11-11-11-11-11-11-11-11-				,					
Timer Results				EB	L	COLUMN TO	ВТ	WB	BL _	W	NAME OF THE OWNER,	NB	L	NBT	SB	L	SBT
Assigned Phas	е			5		**********	2	1		6	MACHINE MARKET	3		8	7		4
Case Number			Line of the latest	1.1		idal-islande.	.0	1.1	-	4.	-	1.1	-	4.0	1,1	deletimistell intelligi	4.0
Phase Duration				10.		-	9.6	11.	-	70	-	15.0		30.7	15.		30.7
Change Period			-	5.0 3.2	manica della	amina	.6	5.0	-	5.	*****	5.0	milionistis musican	6.7	5.0		6.7
	Allow Headway (MAH), seue Clearance Time (g_s), s			5.9	-	U	.0	3.2	Name of Street, or other	0.	.0	3.2		3.2	3.2		3.2
	eue Clearance Time (g s), s en Extension Time (g e), s			0.1	-	0	.0	6.7			^	13.0	minmentin believe	23.3	13.	TOTAL TOTAL CONTROL OF	22.4
Phase Call Pro	THE RESERVE OF THE PARTY OF THE	(90),0	trades and transferred	0.9	-	U		0.1	Total State	0.	·U	1.00	COLUMN TO SERVICE STREET	0.7 1.00	0.0		0.8
Max Out Proba	- Commission of the last	Gridana Albania	3 8 2 2 3	0.3	-			0.88				1.00		0.30	1,00		1.00 0.19
Movement Gro	un Poo	ulto.			Fo												
Approach Move	COCCOMMENSATION OF THE PERSON			1	EB	_	D	1	WB		_		NB	r	<u> </u>	SB	
Assigned Move				5	T 2	+	R 12	1 1	Т	-	R	L	Т	R	L	Τ	R
Adjusted Flow F	-) veh/h		116	1103	+	12		6	+	16	3	8	18	7	4	14
		w Rate (s), veh/h/l	n	1767	1807	en free		125 1767	755	+	It is a second	247	293		219	286	104.155
Queue Service			-	3.9	65.0	-		4.7	1818 43.4	in the same		1753	1693	<u></u>	1753	1716	
Cycle Queue C				3.9	65.0	****		4.7	43.4	-		11.0	21.3		11.0	20.4	
Green Ratio (g				0.57	0.51	+		0.57	0.52	-		0.28	0.20		11.0 0.28	0.20	
Capacity (c), v		THE RESIDENCE OF THE PARTY OF T		259	924	+		164	942			222	334		215	338	
Volume-to-Capa	acity Rat	tio (X)		0.447	1.194			0.765	0.801	\dagger		1.113	0.876		1.019	0.846	
Back of Queue	(Q), ft/l	In (50 th percentile)		38	1306	man Contract		57	491.6	-		193.4	262.7		239.7	247.7	
Back of Queue	(Q), ve	eh/ln (50 th percenti	le)	1.5	51.0	-		2.2	19.2	+		7.5	10.2		0.3	0.6	
		RQ) (50 th percent		0.00	0.00	-		0.00	0.00	AND WHEN		0.00	0.00		9.3	9.6	
Uniform Delay (THE RESERVE OF THE PERSON NAMED IN	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	A STATE OF THE STA	22.6	31.0	-		32.6	25.2	-		42.6	49.5		41.9	49.1	
Incremental Del	remental Delay (d 2), s/veh				97.8	****		8.6	7.1			93.8	15.3		66.5	11.6	
Initial Queue De	ial Queue Delay (d ȝ), s/veh			0.4	0.0	T		0.0	0.0	T		0.0	0.0		0.0	0.0	
	ntrol Delay (d), s/veh			23.1	128.9			41.2	32.3			136.4	64.8		108.4	60.7	
THE RESERVE THE THE PROPERTY OF THE PROPERTY O	vel of Service (LOS)			С	≥ F			D	С	T		F	E	1 (3 V) (1)	F	Е	
	proach Delay, s/veh / LOS			118.	8	F		33.6	3	С		97.6	3	F	81.4		F
Intersection Del	tersection Delay, s/veh / LOS						85	5.3							F		
Multimodal Re	ultimodal Results				EB				WB				NID.			C.C.	
Pedestrian LOS		LOS	THE COLUMN TO SE	1.91	симанирания	E	3	1.91	district many control	В		1.95	NB	В	1.95	SB	В
Bicycle LOS Sc	CARLES COLLEGE SPECIAL			3.11	MARKET PERSONS	PERMITTE)	2.55	CHARLES OF STREET	C	-	1.96		В	1.84	-	В
			······································	to the same of the		-			1	SHIP AND					1,0		-

APPENDIX F:

Future Build Capacity Analysis Reports with Mitigation



		HC	S7 Sig	ınaliz	ed Ir	nte	rsec	ction	Resu	ılts	Su	mma	ry	1 1 1			
General Inform	nation																
Agency	nation	Schneider Engine				-				distributes discountries	OCCUPATION OF THE PERSON NAMED IN	-	format	MANAGEMENT COMMUNICATION	_	श्वप्रका ∤ ्र	
Analyst	***************************************	A.R.	ering	LA	- ' - B		A 1000			Dura	-	-	0.25		2	4.4	1
Jurisdiction		NYSDOT	-	The Party of the P	ysis Da	-	-	11, 201	-	Area	-	эе	Othe	The same of the sa			2 - 2 2 - 4 2 - 4
Urban Street				_	Period			ay Peal	(PHF	-		0.98		*		~ _‡
Intersection		NYS Route 25A		CONTRACTOR OF THE PARTY OF THE	ysis Ye	TOUTCOOLED IN	2018	CHARGO CONTRACTOR CONTRACTOR		CONTRACTOR OF THE PARTY OF THE	THE REAL PROPERTY.	Period	R		135 14.		4
	.	25A with Wading F		File N	Name		25A v	v Wadii	ng Rive	er Bui	ild M	lidday F	eak.xu	S		ጎ ተ	
Project Descrip	ouon	Build Midday Peak	(4 114								THIER	FC
Demand Inform					E	3			W	В			NB	we vie u		SB	
Approach Move	ement			L	Т		R	L	7	-	R	L	Т	R	L	T	R
Demand (v), v	eh/h			114	70	2	137	90	59	1	54	211	147		155	-	98
Signal Informa	ition			1										n nuncition quart	aus mercus		
Cycle, s	130.0	Reference Phase	7 2		1		1	.71	Ħ	2		2	29		_	R	
Offset, s	0	Reference Point	_			-	₹			1	5	12 6	17 '	-	€ ,	1.	sta '
Uncoordinated	No	detailment and the second and the se	Begin	Gree			8.0	75.1	11.	7	0.3	21.			K		
Force Mode	-	Simult. Gap E/W	On		v 3.0		0.0	3.6	3.0		0.0	4.7		7	7		N.
Force Mode	Float	Simult. Gap N/S	On	Red	0.0		0.0	0.0	[0.0	4.	0.0	2.0		5	6	7	8
Timer Results	Title Title State C	11		EB	L L	FF	ВТ	WE	a l	WB	т	NB		NBT	SB		CDT
Assigned Phase	9	Manage Destrict County Leving County	Amerik Constitute or state of	5	-	2	********	1		6		3		8	7	_	SBT
Case Number				1.1		4.	-	1.1		4.0		1.1		CHI PROCESSI PROGRAMMANA	-		4
Phase Duration	. s			8.4		79	interior beautiful time.	7.7	Acres Control of Control	78.7	-	15.0	-	4.0	1.1	in the second of the second	4.0
Change Period,	-	a) Š		3.0	wearen and bearing	5.	-	3.0	-	5.6	-	-	-	28.1	14.		27.9
	Allow Headway (MAH), s			3.2		0.	455 111	3.2	manimud man	Minchestastic	Minteresia.	3.0		6.7	3.0		6.7
				5.5	-	0.	U	-		0.0		3.2		3.2	3.2	The second second	3.2
	eue Clearance Time (g $_{s}$), $_{s}$			0.0	-	0	^	4.9	Technolomona Import			15.0	nimania prima	20.5	11.8	THE RESERVE THE PARTY OF THE PA	16.4
Phase Call Prob	THE REAL PROPERTY AND PERSONS ASSESSMENT	(90),3		0.0	-	0.0	U	0.0	HERMAN CONTRACTOR	0.0		0.0		0.9	0.0	-	0.9
Max Out Probab	-			1.0	-			1.0				1.00	-	1.00 0.00	1.00	-	0.00
														0.00	1.0		0.00
Movement Gro	DECEMBER DESCRIPTION OF THE PARTY OF THE PAR	ults	www.mens.mens.		EB		ecercia de la constante	Deliver and the second	WB	***************************************			NB			SB	
Approach Move	W407407800000000000000000000000000000000	W-1012		L	T	THE PERSON	R	L	Т	F	₹	L	Т	R	L	T	R
Assigned Mover				5	2		12	1	6	1	6	3	8	18	7	4	14
Adjusted Flow R				116	823			92	642			215	245	200	158	194	
		w Rate (s), veh/h/l	n i	1725	1770	COST PERSONS		1711	1777			1697	1665		1697	1646	
Queue Service				3.5	48.0			2.9	31.6	3.85		13.0	18.5		9.8	14.4	
Cycle Queue Cle		Time (g c), s		3,5	48.0	-		2.9	31.6			13,0	18.5		9.8	14.4	
Green Ratio (g/	THE REAL PROPERTY AND PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF			0.63	0.58	THE OWNER OF	an acama	0.61	0.57			0.27	0.17		0.27	0.17	
Capacity (c), ve	discount of the same of the sa			390	1019	WILL SHARE		247	1012	OR OTHER DESIGNATION OF THE PERSON		293	287		229	281	
Volume-to-Capa				0.298	0.808	3		0.372	0.634	-		0.735	0.852		0.690	0.690	
		n (95 th percentile)		59.2	719	1		54	496.2	ere de l'accionne		275.5	328.6		209.1	262.5	
		h/ln (95 th percenti		2.3	27.4			2.0	18.8			10.4	12.4		7.9	9.9	
		RQ) (95 th percent	ile)	0.00	0.00	1		0.00	0.00			0.00	0.00		0.00	0.00	
Uniform Delay (90701440 999 91144615074 94660	-		14.6	21.9			21.6	18.8			41.1	52.2		40.2	50.7	V. C. San C.
ncremental Dela	Name and Address of the Owner, where			0.2	6.9			0.3	3.0			8.2	2.8		6.8	1.1	
	l Queue Delay (d 3), s/veh			0.0	0.0			0.0	0.0			0.0	0.0		0.0	0.0	
CONCORDED MANAGEMENT OF THE PARTY OF THE PAR	trol Delay (d), s/veh			14.7	28.8	丰		22.0	21.9			49.3	54.9		47.1	51.8	
	el of Service (LOS)			В	С			С	С		1 1	D	D		D	D	
	proach Delay, s/veh / LOS			27.1		С		21.9)	С		52.3		D	49.7		D
ntersection Dela	ersection Delay, s/veh / LOS					ing 5200	33	.4						(2		
Multimodal Res	ilfimodal Results				ΕB		<i>"</i>		18/0				1 1 -				
Pedestrian LOS		LOS		1.92		В		4.04	WB	_			NB			SB	
Bicycle LOS Sco					The second second	В	-	1.91	-	В		1.97		В	2.00		В
, 9.9 000	.0 / LU	9		2.65	· .	C		2,31		В		1.83		В	1.59		В

	HCS7 Sig	ınaliz	ed In	ters	ec	tion	Resu	lts Su	ımma	ry				
General Information	n .												- Y-2 - J - I - Y	A 10 A 10 A 10
Agency		***************************************						THE RESERVE OF THE PERSON NAMED IN COLUMN 1	ction In	-	ion		भं । उदाभक्ता	یا ط
Analyst	Schneider Engineering A.R.	T	. 5	- 15	-	<i>P</i>		Duratio	***************************************	0.25			, , ,	
Jurisdiction	NYSDOT	CONTRACTOR OF THE PERSON NAMED IN	THE RESERVE OF THE PERSON NAMED IN		THE REAL PROPERTY.	1, 2018	MINISTER OF THE PERSON NAMED OF	Area Ty	pe	Othe	-			
Urban Street		-	Period		M Pe	eak		PHF		0.98		₹~		, <u>*</u>
Intersection	NYS Route 25A	THE OWNER WHEN PERSON NAMED AND ADDRESS OF THE OWNER WHEN PERSON NAM	sis Yea	COMMON PROPERTY	TOTAL CONTRACTOR OF THE PARTY O		CCTCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	10000000000000000000000000000000000000	s Period	R	:00	7		
Project Description	25A with Wading River Build PM Peak	File N	vame	25	A w	v Wadin	ig Rive	r Build F	PM Peal	c.xus			ጎ ሶ ከተመቀየ	1-1
Demand Information		7		, war										lua par con
Approach Movemen		+	EB	accompanies		-	W	TOTAL PROPERTY AND ADDRESS OF THE PARTY AND AD		NB	atamoniji sainvoidtaritus		SB	***************************************
Demand (v), veh/h		L 400	T	manufactures	R	L	T		CANADA STREET,	T	R	-	Т	R
Demand (v), venin		120	711		172	160	83	1 100	250	170) 111	1 124	99	78
Signal Information				-1-	Ε.						. Samuel and American	a merane anaryan	m what to the king	in object amount
Cycle, s 130	.0 Reference Phase 2		10	H	3	Ħ.	Ħ	20	2			я	K	人
Offset, s 0					Ĩ	F3 .	- 8	1 6	17 5	17	1	♦ 2] 3	
Uncoordinated No	months and the comment of the commen	Green	1 5.7	0.		72.5		2.2	21.			5		
Force Mode Floa		Yellov	v 3.0 0.0	0.		3.6	3.0	0.0			<i>></i>	7	1	V
1 of oc Woods 1 1 to	at Simul. Gap 10/3 On	Red	10.0	10.	U	2.0	0.0	0.0	2.0	<u> </u>	5	6	7.	!
Timer Results	The the time the the first tree the test was promised.	EB		EBT	-	WB		WBT	NIC NIC		NOT	W 00		ODT
Assigned Phase		5		2	-	1	<u> </u>	6	NB	L	NBT	SB		SBT
Case Number		1.1		-	_	-		THE RESIDENCE OF THE PARTY OF T	3	1.0	8	7		4
Phase Duration, s		8.7	- Indiana	4.0		1.1		4.0	1.1		4.0	1.1	section interests destrois	4.0
Change Period, (Y+	P \ 0	AND PARTY OF THE PARTY OF	-	78.1		9.0	-	78.4	15.	-	30.1	12.		27.9
Max Allow Headway	Marking to the contract of the	3.0	Altonium interes	5.6		3.0	-	5.6	3.0		6.7	3.0	-	6.7
THE MODERN COMMENCE OF THE PROPERTY OF THE PRO		3.2	-	0.0		3.2		0.0	3.2	-	3.2	3.2		3.2
Queue Clearance Tir		5.8	umawan Juma	*******		7.2	TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE		15.	midden comban positions	22.5	9.8	The Designation of Controller	14.2
Green Extension Tim		0.0	STATE OF THE PERSON NAMED IN COLUMN	0.0		0.0	The second second	0.0	0.0	-	0.9	0.0	-	0.9
Phase Call Probability	Ŋ	0.9	-			1.00			1.0	0	1.00	0.9	9	1.00
Max Out Probability		1.00	0			1.00	0		1.0	0	0.00	1.00)	0.00
Movement Group R			EB				WB			NB			SB	e
Approach Movement		L	T	R		L	Т	R	L	T	R	L	T	R
Assigned Movement		5	2	12	2	1	6	16	3	8	18	7	4	14
Adjusted Flow Rate (122	868			163	934		255	272	1	127	169	
	Flow Rate (s), veh/h/ln	1725	1759			1711	1767		1697	1672		1697	1661	
Queue Service Time		3.8	55.1			5.2	63.0		13.0	20.5	The second second	7.8	12.2	
Cycle Queue Clearar	nce Time (g_c), s	3.8	55.1			5.2	63.0		13,0	20.5		7.8	12.2	
Green Ratio (g/C)		0.62	0.57			0.62	0.57		0.29	0.19		0.25	0.17	
Capacity (c), veh/h		179	994	I		234	1003		314	314		203	284	
Volume-to-Capacity I	Ratio(X)	0.683	0.873			0.697	0.931		0.813	0.867	Air Marian	0.623	0.597	
Back of Queue (Q),	ft/In (95 th percentile)	116.2	832.3			147.8	979.7	on some some	148.8	357.8		159.1	231.7	
Back of Queue (Q),	veh/ln (95 th percentile)	4.4	31.8			5.6	37.1		5.6	13.5		6.0	8.7	
Queue Storage Ratio	(RQ) (95 th percentile)	0.00	0.00			0.00	0.00		0.00	0.00		0.00	0.00	
Uniform Delay (d 1),	s/veh	29.9	24.3			26.4	25.8	warana wa	42.8	51.2		41.0	49.8	Political Control
Incremental Delay (c	1 2), s/veh	8.0	10.5			7.4	16.0		14.0	2.8		2.3	0.8	
Initial Queue Delay (d з), s/veh	0.0	0.0			0.0	0.0		0.0	0.0	THE RES	0.0	0.0	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Control Delay (d), s	/veh	38.0	34.8			33.8	41.8	- Automorphism	56.8	54.0		43.3	50.5	
Level of Service (LOS	3)	D	С			С	D		E	D		D	D	
Approach Delay, s/ve	h/LOS	35.2	-	D	1	40.6		D	55.4		E	47.4	A	D
Intersection Delay, s/	ersection Delay, s/veh / LOS				42.	***********						D		
Multimodal Results	Iltimodal Populto		FO				3.4.4							
Pedestrian LOS Scor	2/1/09	4.00	EB	Б		4	WB	Б		NB			SB	
Bicycle LOS Score / I		1.92		В		1.91	TOTAL PROPERTY.	В	1.97		В	2.00		В
Picycle LOS Score / I	100	2.73	5	С		2.91		С	1.94	}	В	1.50)	Α

Generated: 12/12/2018 9:57:24 AM

		HCS	S7 Sig	ınaliz	ed In	te	rsec	tion	Resu	lts	Su	mma	ry				
General Inform	motion																
	nation	lo-bidE						***	-	-	-	ction In	-	ion		\	1 4
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Intersection		A	li	OR OF THE OWNER, WHEN PERSON	sis Yea	COCCOCCOO O	2018					Period			*		
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Cycle, s	130.0	Reference Phase	2		10	۲	S. F. S.	Ħ.,	Ħ '	N K	21				Я	~	人
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			d-u-						73.0			13.0	(-1,		• 1	
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Phase Call Pro	CONTRACTOR OF THE PARTY OF THE	(g e), S	seedimental/transferitive	0.0	10130	0.	.0	0.0	CONTROL OF THE PERSON	0.0	U	0.0	economic common	1.1	0.0		1.1
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		- (2, 7		1.0				1.00	J	0.00	1.00	J	0.00
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Adjusted Flow F	ACTUAL DESIGNATION OF THE PERSON OF THE PERS	Control of the Contro		112	1038	m money		121	715			240	269	19.00	212	266	
	months and a second second second	w Rate (s), veh/h/l	n	1767	1815	nie imie		1767	1825			1753	1700		1753	1723	
Queue Service				3.5	71.6			4.7	37.3		-	13.0	19.9		12.8	19.4	1 11 12 12
Cycle Queue Cl		e Time (g_c) , s		3,5	71.6			4.7	37.3			13.0	19.9		12.8	19.4	
Green Ratio(<i>g/</i> Capacity(<i>c</i>), v	CHARLET THE PARTY OF THE PARTY OF THE		-синмадимеции	0.60	0.55	-		0.61	0.56	-	nadanear	0.29	0.19		0.29	0.19	
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	(4), 10			00.0	6			210	373.4			332.9	343.1		302.5	337.7	
	Characteristicates bed Specification	eh/ln (95 th percenti		2.4	50.7			8.5	22.4			12.9	13.3		11.7	13.1	-
CONTRACTOR OF THE PARTY OF THE		RQ) (95 th percent	ile)	0.00	0.00			0.00	0.00	Γ		0.00	0.00		0.00	0.00	Ì
Uniform Delay (-	****		18.2	29.2	L		36.2	21.1			42.3	51.3		40.0	51.1	
	remental Delay (d 2), s/veh				38.6	L		24.9	4.1			27.0	2.6		28.8	2.2	
THE RESERVE AND PERSONS ASSESSED.	al Queue Delay (d 3), s/veh			0.0	0.0	L		0.0	0.0			0.0	0.0		0.0	0.0	
	ntrol Delay (d), s/veh el of Service (LOS)			18.5 B	67.8	+		61.1	25.3	L		69.3	53.9		68.8	53.3	
	proach Delay, s/veh / LOS				F	Ļ		E	С	Ļ		E	D		E	D	
	pproach Delay, s/veh / LOS tersection Delay, s/veh / LOS)	E		30.5)	С		61.2	2	E	60.2	2	E
THO SCULOT DEL	tersection Delay, s/ven / LOS						53	·11							D		
Multimodal Res	iltimodal Results				EB				WB				NB			SB	
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Bicycle LOS Sco	ore / LO	S		3.00	-	С	O-MARKET STREET	2.48		В	-	1.91		В	1.80	-	В
										-			The second second		The second state of the second state of	AND DESCRIPTION OF THE PERSON	

APPENDIX F REVISED TRAFFIC IMPACT STUDY

Schneider Engineering, PLLC May 10, 2022





Venezia Square

Revised Traffic Impact Study

May 10, 2022

Abstract

Schneider Engineering, PLLC has prepared this report to serve as an updated version of the Traffic Impact Study we had submitted in December 2018 for the Venezia Square project. The location of this project is on NY-25A across from Dog Wood Drive, Wading River, New York.

In a letter from the Town of Riverhead Planning Department dated February 15, 2022 to Nelson, Pope 7 Voorhis, LLC, concern was expressed regarding the Level-of-Service (LOS) impact at the intersection of NY-25A and Wading River Manor Road. The 2018 existing conditions capacity analysis identified the overall LOS as operating at LOS C during the peak midday, PM and Saturday conditions. The future build scenario with mitigation measures identified the overall LOS reducing from a C to a D during the PM peak hour and Saturday peak hour. The Town's concern is that the proposed development would result in a traffic impact which would reduce service to a level D or below.

In this report we prepared an updated LOS analysis at the intersection with new turning movement counts (2022) and updated background traffic growth from other proposed developments in the immediate vicinity. Our finding is that under a conservative analysis, the future no build scenario will have an overall LOS C during the peak midday and PM conditions and LOS D during the Saturday condition. In the build scenario service levels will not be reduced from the no build scenario. Therefore, the proposed development will not result in a traffic impact that reduces service levels.

Analysis and Conclusions

We performed an updated level-of-service analysis with the traffic impact related changes that have occurred from the postponement of this project due to COVID-19. From discussions with the Town of Riverhead Planning Department, the major change has been the reduced number of other planned projects in the area anticipated to be developed. Previously it was anticipated that there were going to be five other projects developed in the area whereas now there are only two. These two other planned projects are described below, containing their trip generations.

- 1. Central Square is located along the south side of Route 25A, approximately a quarter mile to the east of the intersection of Wading River Manor Road and Route 25A. The proposed development is comprised of a restaurant, 14,076 SF of retail space, a 4,250 SF bank with drive thru and 28,962 SF of professional office space is estimated to generate 318 trips (141 Entering, 177 Exiting) during the midday peak hour, 318 trips (141 Entering, 177 Exiting) during the PM peak hour, and 305 trips (162 Entering, 143 Exiting) during the Saturday midday peak hour.
- 2. **Real Life Church of Wading River** is located approximately 315 FT north of the intersection of Route 25A and Dogwood Drive. The proposed development includes a proposed 2,952 SF expansion to the existing 2,533 SF church, which will include approximately 1,220 SF of office area in the basement of the church, 1,323 SF of meeting

rooms in the basement, and 409 SF of sanctuary space to include 205 seats. The proposed new church space is expected to generate 27 trips (14 Entering,13 Exiting) during the midday peak hour, 12 trips (7 Entering, 5 Exiting) during the PM peak hour, and 31 trips (22 Entering, 9 Exiting) during the Saturday midday peak hour.

In addition, new turning movement counts were taken at the intersection to utilize current conditions as the base for our analysis. Turning movement counts were taken on Wednesday, April 13, 2022 from 11:00am to 1:00pm, 4:00pm to 6:00pm, and Saturday, April 23, 2022 from 11:00am to 2:00pm. The midweek peak hours were found to be 12:00pm to 1:00pm and 4:00pm to 5:00pm and the Saturday peak hour was found to be 11:45am to 12:45pm. The turning movement count data is included in Appendix A of this report.

A seasonal factor of 1.052 was applied to the turning movement counts using the 2017 NYSDOT Seasonal Adjustment Factors¹ to reflect the busiest summer month. The existing traffic volume data with the applied seasonal factor is presented below in Figure 1.

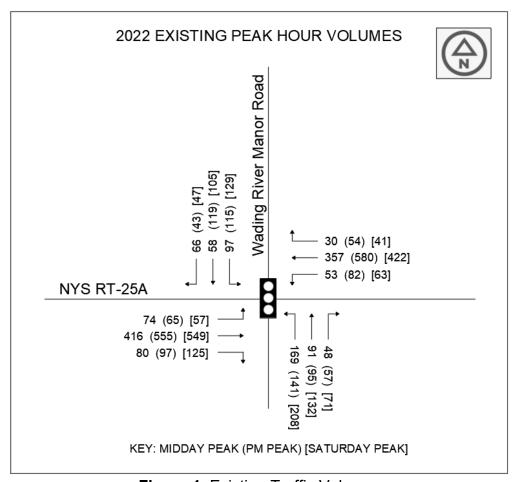


Figure 1. Existing Traffic Volumes

¹ https://www.dot.ny.gov/divisions/engineering/technical-services/hds-respository/Tab/NYSDOT 2017 Seasonal Adjustment Factors.pdf

To obtain the future no build scenario traffic volumes, a conservative background traffic growth rate of 1.7% was applied to the existing counts. This rate was previously used in our December 2018 TIS which is based on the NYSDOT Long Island Transportation Plan. In addition, the traffic associated with the other planned developments in the area discussed above were also added. The future no build scenario traffic volumes are presented in Figure 2 below.

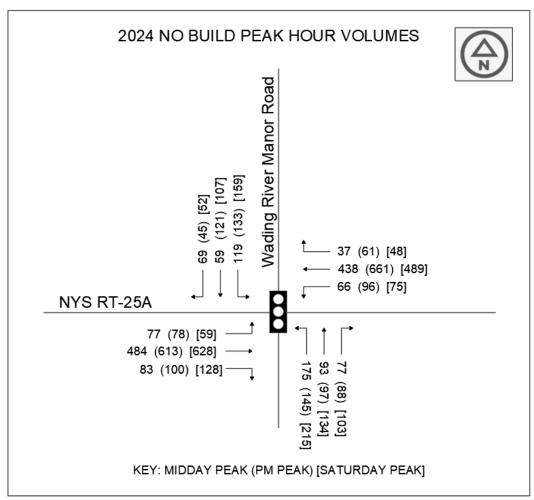


Figure 2. No Build Traffic Volumes

Finally, the build scenario traffic volumes were obtained by adding the traffic associated with the proposed Venezia Square site. The trip generation calculations remained the same as contained in our December 2018 TIS, based on the industry standard ITE Trip Generation Manual. The future build scenario traffic volumes are presented in Figure 3 below.

Figure 3. Build Traffic Volumes

The industry standard highway capacity software HCS was used to perform the highway capacity analysis. A summary of the overall LOS analysis is shown in Table 1 below. The HCS printout sheets are included in Appendix B. The LOS results show that the existing conditions identifies the overall LOS as operating at LOS C during the peak midday, PM and Saturday conditions. The no build conditions identifies the overall LOS operating at LOS C during the peak midday and PM conditions and LOS D during the Saturday condition. The build condition identifies the overall LOS operating at the same service levels as the no build conditions. Therefore, the proposed development will not result in a traffic impact that reduces service levels.

Table 1. Overall LOS Analysis Summary

Peak Period	Existing Conditions	No Build Conditions	Build Conditions
Midday Peak	LOS C	LOS C	LOS C
	25.0 s/veh	25.9 s/veh	26.7 s/veh
PM Peak	LOS C	LOS C	LOS C
	25.3 s/veh	27.6 s/veh	29.5 s/veh
Saturday Peak	LOS C	LOS D	LOS D
	29.6 s/veh	35.6 s/veh	42.6 s/veh

Sincerely,

Steven Schneider, P.E. Principal

Appendix A Turning Movement Count Data

Schneider Engineering, PLLC

Project: Venezia Square

Intersection: NY-25A & Wading River Manor Road

File No. : 18-040T

Date: Wednesday, April 13, 2022

		From	North			From	ı East			From	South			From	West		
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Int. Total
11:00AM	5	3	1	0	10	46	10	0	1	4	2	0	8	96	8	0	194
11:15AM	8	21	7	0	1	64	20	0	12	18	32	0	13	90	8	0	294
11:30AM	12	20	13	0	4	96	14	0	13	29	38	0	10	95	16	0	360
11:45AM	13	11	9	0	5	91	10	0	10	19	37	0	17	103	8	0	333
Total	38	55	30	0	20	297	54	0	36	70	109	0	48	384	40	0	1181
12:00PM	12	17	15	0	4	86	5	0	13	23	47	0	20	95	25	0	362
12:15PM	27	12	21	0	5	70	12	0	8	29	39	0	13	89	16	0	341
12:30PM	9	9	22	0	8	90	19	0	14	29	25	0	18	109	16	0	368
12:45PM	15	17	34	0	11	93	14	0	11	5	50	0	25	103	13	0	391
Total	63	55	92	0	28	339	50	0	46	86	161	0	76	396	70	0	1462
BREAK					ı								ı				
4:00PM	7	30	41	7	13	154	13	0	10	7	7	0	15	172	21	0	497
4:15PM	9	29	42	1	21	113	16	0	23	26	27	0	18	133	11	0	469
4:30PM	11	22	14	0	7	158	27	0	12	35	42	2	29	106	16	0	481
4:45PM	14	32	12	0	10	126	22	1	9	22	58	0	30	117	14	0	467
Total	41	113	109	8	51	551	78	1	54	90	134	2	92	528	62	0	1914
					ı								1				
5:00PM	8	23	12	0	11	111	36	0	13	31	43	1	41	91	10	0	431
5:15PM	12	12	15	0	8	164	28	1	24	21	48	0	21	122	12	0	488
5:30PM	13	23	43	0	16	132	19	0	8	11	5	0	13	137	25	0	445
5:45PM	7	24	26	2	32	104	15	0	20	15	18	0	13	112	23	0	411
Total	40	82	96	2	67	511	98	1	65	78	114	1	88	462	70	0	1775

Schneider Engineering, PLLC

Project: Venezia Square

Intersection: NY-25A & Wading River Manor Road

File No. : 18-040T

Date Saturday, April 23, 2022

		From N	North			From	East			From 9	South			From	West		
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Int. Total
11:00AM	15	24	29	0	7	70	11	0	18	21	47	0	22	119	5	1	389
11:15AM	12	23	23	0	6	97	14	0	19	32	33	0	19	127	18	0	423
11:30AM	5	24	32	0	10	86	19	0	13	36	50	0	17	130	10	0	432
11:45AM	13	34	31	0	11	98	16	0	10	39	54	0	30	142	12	0	490
Total	45	105	115	0	34	351	60	0	60	128	184	0	88	518	45	1	1734
									_								
12:00PM	10	21	33	0	11	97	15	0	20	34	48	0	25	136	15	0	465
12:15PM	16	26	35	0	13	94	15	0	14	31	44	0	41	112	17	2	460
12:30PM	6	19	24	0	4	112	14	0	23	21	52	0	23	132	10	0	440
12:45PM	6	25	26	0	6	116	14	0	18	24	34	0	29	141	10	0	449
Total	38	91	118	0	34	419	58	0	75	110	178	0	118	521	52	2	1814
1:00PM	9	26	17	0	6	101	15	0	18	26	42	0	20	137	12	0	429
1:15PM	9	26	23	0	7	106	17	0	21	27	30	0	21	114	6	0	407
1:30PM	10	17	25	0	18	100	19	0	15	32	47	0	17	121	13	0	434
1:45PM	7	21	21	0	7	99	16	0	11	22	41	0	25	120	13	0	403
Total	35	90	86	0	38	406	67	0	65	107	160	0	83	492	44	0	1673

Appendix B HCS Printouts

		HCS	Sigr	nalize	d Inte	ersect	ion R	esul	ts Su	mmary	/				
								_							
General Inform	nation								Interse	ction In	ormati	on		덕 작	Ja ly
Agency		Schneider Engineer	ring						Duratio	n, h	0.250)		4 7	P.
Analyst		A.R.		Analys	is Date	May 9	9, 2022		Area Ty	/ре	Othe	r	<i>1</i> ,		<u> </u>
Jurisdiction		NYSDOT		Time F	Period		ay Peak		PHF		0.98		<u></u>	w∳E	<u>√</u> ÷
Urban Street		NYS Route 25A		Analys	is Year	2022			Analysi	s Period	1> 7:	00	7		** **
Intersection		Wading River Mand	r Rd	File Na	ame	25A w	/ Wadin	g Rive	r Existir	ng Midda	y Peak.	xus		ካ ቱ	
Project Descrip	tion	Exisiting Midday Pe	ak										1	1 1 1 4 Y	7 4
Demand Inform	nation				EB			WI	3		NB			SB	
Approach Move	ement			L	Т	R	L	Т	R	L	Т	R	L	T	R
Demand (v), v	eh/h			74	416	80	53	35	7 30	169	91	48	97	58	66
Signal Informa	tion														
Cycle, s	127.0	Reference Phase	2	1	12 6	-12	7		² .			<u> </u>	2	\	小
Offset, s	0	Reference Point	End			-3				111 1		1	2	3	4
Uncoordinated	No	Simult. Gap E/W	On	Green Yellow		0.7	80.9 3.6	8.3			2	,	—		- -
Force Mode	Fixed	Simult. Gap N/S	On	Red	0.0	0.0	2.0	0.0				5	6	7	Y
Timer Results				EBL	-	EBT	WB	L	WBT	NB	L	NBT	SBI	<u> </u>	SBT
Assigned Phase	e 			5	_	2	1	_	6	3	_	8	7		4
Case Number				1.1	-	4.0	1.1	-	4.0	1.1		4.0	1.1	_	4.0
Phase Duration				6.7 3.0	_	87.2	5.9	_	86.5	15.		22.6	11.3		18.9
	ange Period, (Y+R c), s x Allow Headway (<i>MAH</i>), s				_	5.6	3.0	_	5.6	3.0	_	6.7	3.0		6.7
				3.2	_	0.0	3.2		0.0	3.4		3.4	3.4		3.4
Queue Clearan		, - ,		3.8	_	0.0	3.3	_		13.	_	12.2	8.5		11.6
Green Extension Phase Call Prof		(<i>g</i> e), S		0.1		0.0	0.1 0.85	_	0.0	1.0		1.00	0.0		1.00
Max Out Probal				0.90			0.00	_		1.0		0.00	0.83		0.00
IVIAX Out Probai	Dility			0.00			0.00	,		1.0		0.00	0.00	,	0.00
Movement Gro	up Res	ults			EB			WB			NB			SB	
Approach Move				L	Т	R	L	Т	R	<u> </u>	T	R	L	T	R
Assigned Move				5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F		,·		76	506		54	395		172	142	<u> </u>	99	127	
		ow Rate (s), veh/h/l	n	1725	1760		1711	1772		1697	1677		1697	1626	
Queue Service		- /:		1.8	17.9		1.3	12.9		11.2	10.2		6.5	9.6	
Cycle Queue C		e Time (<i>g c</i>), s		1.8	17.9		1.3	12.9		11.2	10.2		6.5	9.6	
Green Ratio (g				0.69	0.65		0.68	0.64		0.22	0.13		0.18	0.10	
Capacity (c), v				640	1145		526	1142		264	223		215	168	
Volume-to-Capa			, ,	0.118	0.442		0.103	0.346	5	0.653	0.636		0.460	0.751	
		/In (50 th percentile			0.0		0.4	4.0	+	- F 0	1 1	-	0.0	4.4	-
		eh/ln (50 th percenti		0.6	6.6		0.4	4.8		5.0	4.4		2.8	4.1	
		RQ) (50 th percent	.iie)	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	-
Uniform Delay (`			7.3	10.9		8.6	10.3		43.4	52.1		46.1	55.3	
Incremental De Initial Queue De	- '	•		0.0	0.0		0.0	0.0		4.5 0.0	0.0		0.6	2.5 0.0	+
				7.3	12.1		8.6	11.1		48.0	53.3		46.7	57.9	
	ontrol Delay (d), s/veh vel of Service (LOS)						A	В		46.0 D	D D		40.7 D	57.9 E	
Approach Delay				A 11.5	В	В	10.8		В	50.		D	53.0		D
Intersection Del							5.0						C		
Multimodal Re					EB			WB			NB			SB	_
Pedestrian LOS				1.88	_	В	1.88		В	1.9		В	1.96		В
Bicycle LOS Sc	ore / LC	08		2.06		В	1.84	4	В	1.5	9	В	1.38	3	Α

		HCS	S Sigr	nalize	d Int	ersec	tion R	esul	ts Sur	nmary					
								1	• .					4 1/144	L II
General Inform	nation	Υ						\rightarrow	Intersec		- V			1 7	tr d
Agency		Schneider Enginee	ring						Duration		0.250		_	•	R_
Analyst		A.R.		<u> </u>		e May		_	Area Typ	е	Other	•			<u>.</u>
Jurisdiction		NYSDOT		Time F		PM F			PHF		0.98		\	w ∓ E 8	√
Urban Street		NYS Route 25A		Analys					Analysis		1> 7:0	00			* *
Intersection		Wading River Mand	or Rd	File Na	ame	25A v	v Wadin	g Rive	r Existino	PM Pe	ak.xus			<u> </u>	
Project Descrip	tion	Exisiting PM Peak	_	_	_	_	_	_	_	_	_	_		14147	7 1
Demand Inform	nation				EB			W	В		NB			SB	
Approach Move	ement			L	T	R	L	Т	R	L	Т	R	L	T	R
Demand (v), v	eh/h			65	555	97	82	58	0 54	141	95	57	115	119	43
Signal Informa	tion						2	<u>.</u>							
Signal Informa		Deference Dhace				\mathcal{A}	Ħ.,	Ħ	2		a L	<u>/-</u>	7	~	本
Cycle, s Offset, s	127.0	Reference Phase Reference Point	2	-	Ι,	' '	" 📑 '		1 5	12 5		1	♦ 2	3	4
Uncoordinated	0 No		End	Green		0.6	79.0	9.4		14.6	3	_	A		
Force Mode		Simult. Gap E/W Simult. Gap N/S	On	Yellow	0.0	0.0	3.6	3.0 0.0		4.7 2.0			Y	7	Ψ
Force Mode	Fixed	Simult. Gap N/S	On	Red	10.0	10.0	2.0	0.0	0.0	2.0		5	6	1	8
Timer Results				EBI	-	EBT	WB	L	WBT	NBI	-	NBT	SBI	L	SBT
Assigned Phase	е			5		2	1		6	3		8	7		4
Case Number				1.1		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration	i, S			6.4		84.6	7.0		85.2	14.0)	22.9	12.4	1	21.3
Change Period,	nange Period, (Y+R c), s					5.6	3.0		5.6	3.0		6.7	3.0		6.7
Max Allow Head	dway (<i>I</i>	<i>MAH</i>), s		3.2		0.0	3.2		0.0	3.4		3.4	3.4		3.4
Queue Clearan	ce Time	e (g s), S		3.7			4.1			11.1		13.2	9.5		14.0
Green Extensio	n Time	(g e), s		0.1		0.0	0.1		0.0	0.0		0.7	0.0		0.6
Phase Call Prol	bability			0.90)		0.9	5		0.99)	1.00	0.98	3	1.00
Max Out Proba	bility			0.00)		0.00)		1.00)	0.00	1.00)	0.00
Movement Gro	un Ras	eulte			EB			WB			NB			SB	
Approach Move	-	buits		L	T	R	L	T	R	L	T	R	L	T	R
Assigned Move				5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F) veh/h		66	665		84	647		144	155	10	117	165	1-7
		ow Rate (s), veh/h/l	n	1725	1764		1711	1769	_	1697	1669		1697	1700	
Queue Service		· /·		1.7	28.4		2.1	26.7		9.1	11.2		7.5	12.0	
Cycle Queue C		- ,		1.7	28.4		2.1	26.7	_	9.1	11.2		7.5	12.0	
Green Ratio (g		σ τιπο (g ε), σ		0.67	0.63		0.67	0.63		0.23	0.14		0.20	0.12	
Capacity (c), v				421	1111		425	1123		250	227		223	209	
Volume-to-Capa		atio (X)		0.158			0.197	0.57		0.574	0.684		0.525	0.790	
		In (50 th percentile	e)	3.130	3.500		3.107	3.57		5.57 7	3.007		5.525	5.7.00	
		eh/ln (50 th percent		0.6	10.9		0.7	10.2	:	3.9	4.8		3.2	5.3	
		RQ) (50 th percent		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
Uniform Delay ((d 1), s	/veh		11.1	13.9		10.8	13.3		41.9	52.3		43.8	54.1	
Incremental De	lay (d 2), s/veh		0.1	2.4		0.1	2.2		1.6	1.4		0.7	2.5	
Initial Queue De	elay (<i>d</i>	з), s/veh		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Control Delay (d), s/ve	eh		11.1	16.3		10.9	15.5		43.5	53.7		44.5	56.6	
Level of Service				В	В		В	В		D	D		D	E	
Approach Delay				15.9)	В	15.0	0	В	48.8	3	D	51.6	3	D
Intersection De	lay, s/ve	eh / LOS				2	5.3						С		
Multimodal Re	sults				EB			WB			NB			SB	
Pedestrian LOS		/ LOS		1.89		В	1.88		В	1.95		В	1.95		В
Bicycle LOS Sc				2.31	_	В	2.3		В	1.56		В	1.47	_	A

HCS S	Sign	alized	d Inte	ersect	ion R	esul	ts S	Sum	mary	,				
												يسجا		
General Information							Inte	rsecti	ion Info	ormatio	on	لر		fr fr
Agency Schneider Engineering	g							ation,		0.250			4.7	P.
Analyst A.R.		Analys	is Date	May 9	9, 2022		Area	а Туре)	Other		<i>≛</i> ,		<u>*</u>
Jurisdiction NYSDOT		Time P	eriod		day Pea	k	PHF	=		0.95		<u></u>	w	<u> </u>
Urban Street NYS Route 25A		Analys	is Year	2022			Ana	lysis F	Period	1> 7:0	00	¥ ¬		*# #
Intersection Wading River Manor F	Rd	File Na	ıme	25A w	/ Wadino	g Rive	r Exi	isting	Saturda	ay Peal	k.xus		5 የ	
Project Description Exisiting Saturday Pea	ak											1	1 1 1 1 1 1 1	7 1
Demand Information			EB			W	В			NB			SB	
Approach Movement		L	Т	R	L	Т		R	L	T	R	L	Т	R
Demand (v), veh/h		57	549	125	63	42	2	41	208	132	71	129	105	47
Signal Information				5										
	2			4 3	Ħ	Ħ	7		ellis		_	7	~	本
			"	"	ˈ ₹ '	, 6	١ ١	S11	김 ۾		1	2	3	4
	Begin	Green		0.3	76.4	10.		1.6	16.9		_	A		
· · · · · · · · · · · · · · · · · · ·		Yellow		0.0	3.6	3.0		0.0	4.7 2.0				1	Y
Force Mode Float Simult. Gap N/S	OII	Red	0.0	0.0	2.0	10.0	,	0.0	2.0		5	6	1	8
Timer Results		EBL	.	EBT	WB	L	WE	3T	NBL		NBT	SBI		SBT
Assigned Phase		5		2	1	\neg	6		3		8	7		4
Case Number		1.1		4.0	1.1		4.0	0	1.1		4.0	1.1		4.0
Phase Duration, s		6.2		82.0	6.5		82.	.2	15.0		25.1	13.4	1	23.6
Change Period, (Y+R c), s		3.0		5.6	3.0		5.6	6	3.0		6.7	3.0		6.7
Max Allow Headway (<i>MAH</i>), s	\neg	3.2	\neg	0.0	3.2		0.0	0	3.4	\neg	3.4	3.4	\neg	3.4
Queue Clearance Time (g s), s		3.6			3.8	-			15.0		17.7	10.5		13.4
Green Extension Time (g e), s	\neg	0.0	\neg	0.0	0.0	\top	0.0	0	0.0	\neg	0.7	0.0	_	0.8
Phase Call Probability		0.88			0.90)			1.00		1.00	0.99	•	1.00
Max Out Probability	\neg	0.00			0.00)		\neg	1.00		0.01	1.00)	0.00
Movement Group Results	_		EB			WB	-			NB		₩.	SB	
Approach Movement	\rightarrow	L	T	R	L	T	\rightarrow	R	L	T	R	L	T	R
Assigned Movement	_	5	2	12	1	6	_	16	3	8	18	7	4	14
Adjusted Flow Rate (v), veh/h	\rightarrow	60	709	-	66	487	\rightarrow	\dashv	219	214		136	160	\vdash
Adjusted Saturation Flow Rate (s), veh/h/ln	-	1725	1753	-	1711	1768	_	\rightarrow	1697	1676		1697	1688	-
Queue Service Time (g s), s	_	1.6	33.8		1.8	18.8	_	_	13.0	15.7		8.5	11.4	
Cycle Queue Clearance Time (g c), s	\dashv	1.6	33.8		1.8	18.8	_	\rightarrow	13.0	15.7		8.5	11.4	_
Green Ratio (g/C)	_	0.64	0.61		0.65	0.61	_	_	0.26	0.15		0.23	0.14	
Capacity (c), veh/h	\dashv	501	1068		361	108	_	_	289	256		216	237	
Volume-to-Capacity Ratio (X) Back of Queue (Q), ft/In ($\int 50$ th percentile)	_	0.120	0.665		0.184	0.45	1	_	0.757	0.835		0.630	0.675	_
Back of Queue (Q), Tylin (50 th percentile) Back of Queue (Q), veh/ln (50 th percentile)	$\overline{}$	0.6	13.2		0.6	7.2	+	\dashv	6.7	7.0		3.8	4.9	
Queue Storage Ratio (RQ) (50 th percentile)		0.00	0.00		0.00	0.00	_		0.00	0.00		0.00	0.00	
Uniform Delay (d_1), s/veh	')	10.4	16.3		13.3	13.3		\dashv	42.1	52.2		42.1	51.8	
Incremental Delay (d 2), s/veh	\rightarrow	0.0	3.3		0.1	1.4	_	\rightarrow	9.8	5.2		3.0	1.3	
Initial Queue Delay (d 3), s/veh	-	0.0	0.0		0.1	0.0	_	\rightarrow	0.0	0.0		0.0	0.0	
Control Delay (d), s/veh	\rightarrow	10.4	19.6		13.4	14.6	\rightarrow	\rightarrow	51.9	57.4		45.1	53.1	
Level of Service (LOS)	-	B	19.0 B		13.4 B	14.0 B	+	\rightarrow	D D	57.4 E		43.1 D	D D	
Approach Delay, s/veh / LOS		18.9		В	14.5		В		54.7		D	49.4		D
Intersection Delay, s/veh / LOS	\dashv	10.9			9.6			\dashv			J	C 49.4		
moreodon boldy, siven i Loo				23	J.U									
Multimodal Results			EB			WB	3			NB			SB	
mannoud Hoodito								\rightarrow		-		1	$\overline{}$	
Pedestrian LOS Score / LOS		1.89		В	1.89	9	В	·:	1.95	<u> </u>	В	1.95	5	В

		HC	S Sigr	alize	d Int	ersect	tion R	esul	ts Sun	nmary					
	11								1.4		- 11			ا با جاجيات ا	la I
General Inform	nation	Ja						\rightarrow	Intersec		- V				to d
Agency		Schneider Enginee	ring						Duration		0.250				E.
Analyst		A.R.		1		e May 9		-	Area Typ	е	Other			w∱E	<u>.</u>
Jurisdiction		NYSDOT		Time F			ay Peak		PHF		0.98		_ ₹	W † E 8	√
Urban Street		NYS Route 25A		Analys					Analysis		1> 7:0				r F
Intersection		Wading River Man		File Na	ame	25A v	v Wadin	g Rive	r No Buil	d Midda	y Peak.	xus	_ 1	<u>ጎ ት</u>	
Project Descrip	tion	No Build Midday P	eak	-	-	-	-	-	-	-	-	-			ר ר
Demand Inform	nation				EB			WI	3		NB			SB	
Approach Move	ement			L	T	R	L	Т	R	L	Т	R	L	T	R
Demand (v), v	eh/h			77	484	83	66	43	8 37	175	93	77	119	59	69
Cianal Informa	tion			1											
Signal Informa		Reference Phase		-	La .	ا جالہ	y	Ħ '	77		a L	<u>/-</u>	,	~	▲□
Cycle, s	127.0	ļ	2	-			- ₹ '		i I Si			1	♀ 2	3	4
Offset, s	0	Reference Point	Begin	Green		0.4	79.6	9.8		13.4	i i	_	<u> </u>		
Uncoordinated	No	Simult. Gap E/W	On	Yellow	-	0.0	3.6	3.0		4.7		<u> </u>	Y	>	Ψ
Force Mode	Float	Simult. Gap N/S	On	Red	0.0	0.0	2.0	0.0	0.0	2.0		5	6	7	8
Timer Results				EBI		EBT	WB	L	WBT	NBI	_	NBT	SBI		SBT
Assigned Phase	e			5		2	1		6	3		8	7		4
Case Number				1.1		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration	i, S			6.8		85.5	6.4		85.2	15.0)	22.3	12.8	3	20.1
	nange Period, (Y+R c), s					5.6	3.0		5.6	3.0		6.7	3.0		6.7
_	ange Period,(Y+R ɛ), s ax Allow Headway(<i>MAH</i>), s				\neg	0.0	3.2	_	0.0	3.4	_	3.4	3.4		3.4
Queue Clearan		· · · · · · · · · · · · · · · · · · ·		3.2 4.0			3.7	_		13.5	_	15.0	9.9		11.9
Green Extensio		, = ,		0.1	\neg	0.0	0.0		0.0	0.0		0.6	0.0	\neg	0.6
Phase Call Prol		, , , , , , , , , , , , , , , , , , ,		0.94			0.9	1		1.00)	1.00	0.99)	1.00
Max Out Proba				0.00			0.00)		1.00)	0.00	1.00)	0.00
Mayarant Cra	Das				ED			WD			ND			CD	
Movement Gro	-	Suits			EB	T D		WB	Τ.		NB			SB	
Approach Move				L	T	12	L	Т 6	R	L	T	R	7	T 4	R
Assigned Move Adjusted Flow F		1) vab/b		5	2 570	12	67	-	16	3	8	18			14
		ow Rate (s), veh/h/	lin.	79	579	+	67	485 1771		179 1697	173 1647		121	131 1624	
Queue Service		· · · · · · · · · · · · · · · · · · ·	III	1725 2.0	1765 22.5		1711	17.5		11.5	13.0		1697 7.9	9.9	
Cycle Queue C		- /		2.0	22.5		1.7	17.5		11.5	13.0		7.9	9.9	
Green Ratio (g		e fille (g c), s		0.67	0.64	_	0.67	0.63		0.23	0.13		0.20	0.11	
Capacity (c), v				560	1124	_	466	1124		273	215		206	184	
Volume-to-Capa		atio (X)		0.140	0.515		0.144	0.43		0.654	0.806		0.590	0.712	
		√In (50 th percentile	e)	0.140	0.010		0.144	0.43		0.004	0.000		0.590	0.7 12	
		eh/ln (50 th percent		0.7	8.5		0.6	6.6	1	5.2	5.5		3.4	4.1	
		RQ) (50 th percen		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
Uniform Delay ((d 1), s	/veh		8.4	12.4		9.9	11.7		42.6	53.6		44.8	54.3	
Incremental De	lay (d 2), s/veh		0.0	1.7		0.1	1.2		4.4	2.7		1.3	1.9	
Initial Queue De	elay (d	з), s/veh		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Control Delay (d), s/ve	eh		8.5	14.1		10.0	12.9		47.0	56.3		46.2	56.2	
Level of Service	e (LOS)			Α	В		Α	В		D	E		D	Е	
Approach Delay				13.4		В	12.	5	В	51.6	3	D	51.4	1	D
Intersection De	lay, s/ve	eh / LOS				2	5.9						С		
Multimodal Re	eulte				EB			WB			NB			SB	
Pedestrian LOS		/1 OS		1.88	-	В	1.88		В	1.95		В	1.96		В
Bicycle LOS Sc				2.18		В	2.0		В	1.65		В	1.42		A
Dioyolo Loo oo	.5,5 / LC			2.10			2.0			1.00			1.72		, ,

		HC	S Sigr	alize	d Int	ersec	tion R	esul	ts Sur	nmary					
	11							1	1.4	41				الماجيد إنه ا	L I
General Inform	nation	Ta						\rightarrow	Intersec		V .			1	\$2 lg
Agency		Schneider Enginee	ring						Duration		0.250				E.
Analyst		A.R.		1		e May		_	Area Typ	oe	Other	•	⊅ ≯	N W † E	* E
Jurisdiction		NYSDOT		Time F		PM F	'eak		PHF		0.98		_	W † E 8	<u>~</u>
Urban Street		NYS Route 25A		Analys					Analysis		1> 7:0				£
Intersection		Wading River Man	or Rd	File Na	ame	25A \	w Wadin	g Rive	r No Buil	d PM Pe	eak.xus		_	ን ነ	- 1
Project Descrip	tion	No Build PM Peak												14147	PI [II
Demand Inform	nation				EB			W	 В		NB		Т	SB	
Approach Move	ement			L	Т	R	L	Т	R	L	Т	R	L	Т	R
Demand (v), v	eh/h			78	613	100	96	66	1 61	145	97	88	133	121	45
Signal Informa		Y	T		1 2		늽,		7		ي ا د	_	_	K .	\mathbf{A}
Cycle, s	127.0	Reference Phase	2		L .			· .	1 5	12 5	12	1	♦ 2	3	4
Offset, s	0	Reference Point	Begin	Green	3.9	0.6	76.8	10.		16.			<u>-</u>		
Uncoordinated	No	Simult. Gap E/W	On	Yellow		0.0	3.6	3.0		4.7		/	7	/	V
Force Mode	Float	Simult. Gap N/S	On	Red	0.0	0.0	2.0	0.0	0.0	2.0		5	6	7	8
Timer Results				EBI		EBT	WB		WBT	NBI		NBT	SBI		SBT
Assigned Phase	Α			5	_	2	1	_	6	3	_	8	7		4
Case Number				1.1		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration	<u> </u>			6.9		82.4	7.5	_	83.0	14.2	,	23.6	13.5	_	22.8
	ange Period, (Y+R c), s					5.6	3.0	_	5.6	3.0		6.7	3.0	_	6.7
_	ange Period,(Y+R ɛ), s x Allow Headway(<i>MAH</i>), s				+	0.0	3.2	_	0.0	3.4		3.4	3.4	_	3.4
Queue Clearan		· · · · · · · · · · · · · · · · · · ·		3.2 4.1		0.0	4.6	_	0.0	11.3		16.2	10.6	_	14.2
Green Extensio		· - /		0.1	_	0.0	0.1	-	0.0	0.0		0.7	0.0		0.7
Phase Call Prol		(3 - 7)		0.94	ı		0.9			0.99		1.00	0.99		1.00
Max Out Proba	bility			0.00)		0.0	0		1.00		0.00	1.00)	0.00
		•													
Movement Gro	-	sults			EB		-	WB		-	NB		-	SB	
Approach Move				L	T	R	L	T	R	L	T	R	L	T	R
Assigned Move		\ 1.0		5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F		,·		80	728		98	737	_	148	189		136	169	
Queue Service		ow Rate (s), veh/h/	in	1725	1766 34.5		1711	1769 34.7	_	1697	1641 14.2		1697	1699 12.2	
Cycle Queue C		- /		2.1	34.5	_	2.6	34.7		9.3	14.2		8.6 8.6	12.2	
Green Ratio (g		e Tillie (<i>g c)</i> , s		0.65	0.61		0.66	0.62	_	0.24	0.14		0.23	0.14	
Capacity (c), v				348	1082		370	1092		265	231		216	229	
Volume-to-Capa		atio (X)		0.229	0.672		0.265	_	_	0.558	0.818		0.627	0.738	
		In (50 th percentile	e)	0.220	0.012		0.200	0.01		0.000	0.010		0.027	0.700	
		eh/ln (50 th percent		0.7	13.5		0.9	13.6	3	4.0	6.0		3.8	5.3	
		RQ) (50 th percen		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
Uniform Delay (14.2	16.2		13.4	15.9		41.3	53.0		42.5	52.8	
Incremental De	lay (d 2), s/veh		0.1	3.3		0.1	3.3		1.3	2.7		3.0	1.8	
Initial Queue De	elay (<i>d</i>	з), s/veh		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Control Delay (14.3	19.6		13.5	19.3		42.5	55.7		45.5	54.5	
Level of Service				В	В		В	В		D	E		D	D	
Approach Delay				19.0)	В	18.0	6	В	49.9)	D	50.5	5	D
Intersection De	lay, s/ve	eh / LOS				2	7.6						С		
Multimodal Re	quite				EB			WB			NB			SB	
Pedestrian LOS		/LOS		1.89		В	1.89		В	1.95	-	В	1.95		В
Bicycle LOS Sc				2.43	_	В	2.4	-	В	1.62		В	1.5	_	В
,						_			_						

	HC	S Sigr	alize	d Int	ersec	tion R	esu	ts S	umi	mary	'				
General Information								Inters	secti	on Info	ormatio	on		1 박 깍	Ja la
Agency	Schneider Enginee	ering	0					Durat	tion, ł	h	0.250			4 7	P.
Analyst	A.R.		Analys	is Dat	e May			Area	Туре	<u> </u>	Other	-	<i>≛</i>		<u>ئ</u> خ پر
Jurisdiction	NYSDOT		Time F	Period		dayPeal	k	PHF			0.95		♦	w 1 € 8	4
Urban Street	NYS Route 25A		Analys	is Yea	r 2024			Analy	/sis P	eriod	1> 7:	00	7		** **
Intersection	Wading River Man	or Rd	File Na	ame	25A \	v Wadin	g Rive	r No E	3uild	Saturd	lay Pea	ık.xus		5 1	
Project Description	No Build Saturday	Peak											Ψ.	14144	tr (*
Demand Information				EB			W	В			NB			SB	
Approach Movement			L	Т	R	L	T	•	R	L	Т	R	L	T	R
Demand (v), veh/h			59	628	128	75	48	9 .	48	215	134	103	159	107	52
Signal Information							.		Ш	-					
- Y	Reference Phase	2		L.,	7	Ħ.,	Ħ	7 6	W.,				7	~	本
Cycle, s 127.0 Offset. s 0		_	-	'	· '	~ - 		ì	<u> "</u>	7		1	2	3	4
, ,	Reference Point	Begin	Green		0.7	69.8	10		20.7	0.0			A		•
Uncoordinated No Force Mode Float	Simult. Gap E/W	On On	Yellow	2.0	0.0	3.6	3.0 2.0		4.7 2.0	0.0				7	Ψ
roice Mode Float	Simult. Gap N/S	Un	Red	₁ ∠.∪	0.0	2.0	2.0	2	<u>′</u> .U	0.0		5	6	7	8
Timer Results			EBL	-	EBT	WB	L	WB1	Т	NBL	_	NBT	SBI		SBT
Assigned Phase			5		2	1		6	\neg	3		8	7		4
Case Number			1.1		4.0	1.1		4.0		1.1		4.0	1.1		4.0
Phase Duration, s			8.5		75.4	9.2		76.1	\neg	15.0		27.4	15.0	5	27.4
	nange Period, (Y+R c), s					5.0		5.6		5.0		6.7	5.0		6.7
	nange Period,(Y+R ɛ), s ax Allow Headway(<i>MAH</i>), s					3.2	_	0.0	\neg	3.4		3.4	3.4	_	3.4
Queue Clearance Time	· · · · · · · · · · · · · · · · · · ·		3.2	\neg	0.0	4.4	-			13.0		20.0	12.0		13.2
Green Extension Time	, - ,		0.0		0.0	0.0	_	0.0	\neg	0.0		0.7	0.0		0.9
Phase Call Probability	· - /		0.89			0.94	1			1.00		1.00	1.00)	1.00
Max Out Probability			0.01			0.03	3		\neg	1.00		0.04	1.00)	0.00
Movement Group Re	sults			EB		-	WE		\dashv		NB		-	SB	
Approach Movement			L	Т	R	L	T	F	-	L	T	R	L	T	R
Assigned Movement	\ 1.0		5	2	12	1 70	6	10	b	3	8	18	7	4	14
Adjusted Flow Rate (4	62	796		79	565	_	\rightarrow	226	249		167	167	
Adjusted Saturation FI	· /·	/In	1767	1801		1767	1820		_	1753	1707		1753	1738	-
Queue Service Time (1.9	44.5		2.4	24.9	_	-	11.0	18.0		10.0	11.2	
Cycle Queue Clearand	ce time (g_c), s		1.9	44.5		2.4	24.9	_	_	11.0	18.0		10.0	11.2	
Green Ratio (g/C)			0.59	0.56		0.60	0.56		_	0.26	0.17		0.26	0.17	
Capacity (c), veh/h	-ti- (V)		407	1004		269	1028	_	-	279	292		215	297	
Volume-to-Capacity Raback of Queue (Q),		0)	0.153	0.793		0.294	0.55	U		0.810	0.854		0.779	0.563	
Back of Queue (Q), 1			0.7	19.0		0.9	10.3		+	3.0	8.5		5.2	4.9	
Queue Storage Ratio (<u> </u>		0.00	0.00	_	0.00	0.00	\rightarrow		0.00	0.00		0.00	0.00	
Uniform Delay (d 1), s		idio)	14.1	22.3		19.6	17.6		_	44.1	51.1		40.5	48.3	
Incremental Delay (d /			0.1	6.4		0.2	2.1		_	15.2	9.5		15.2	0.6	
Initial Queue Delay (d	·		0.0	0.4		0.2	0.0		-	0.0	0.0		0.0	0.0	
Control Delay (d), s/v	<u> </u>		14.1	28.7		19.8	19.7	_	\dashv	59.2	60.6		55.8	48.9	
Level of Service (LOS)	• • •					19.6 B	19.7 B	+		59.2 E	E		55.6 E	46.9 D	
· · ·	proach Delay, s/veh / LOS					19.7		В	_	60.0		E	52.3		D
	proach Delay, s/veh / LOS ersection Delay, s/veh / LOS					5.6		ט		00.0		_	D 52.0	<i>'</i>	U
intersection Delay, S/V					3	J.U									
Multimodal Results				EB			WE	3			NB			SB	
Pedestrian LOS Score	lestrian LOS Score / LOS ycle LOS Score / LOS					1.90)	В		1.95	5	В	1.95	5	В

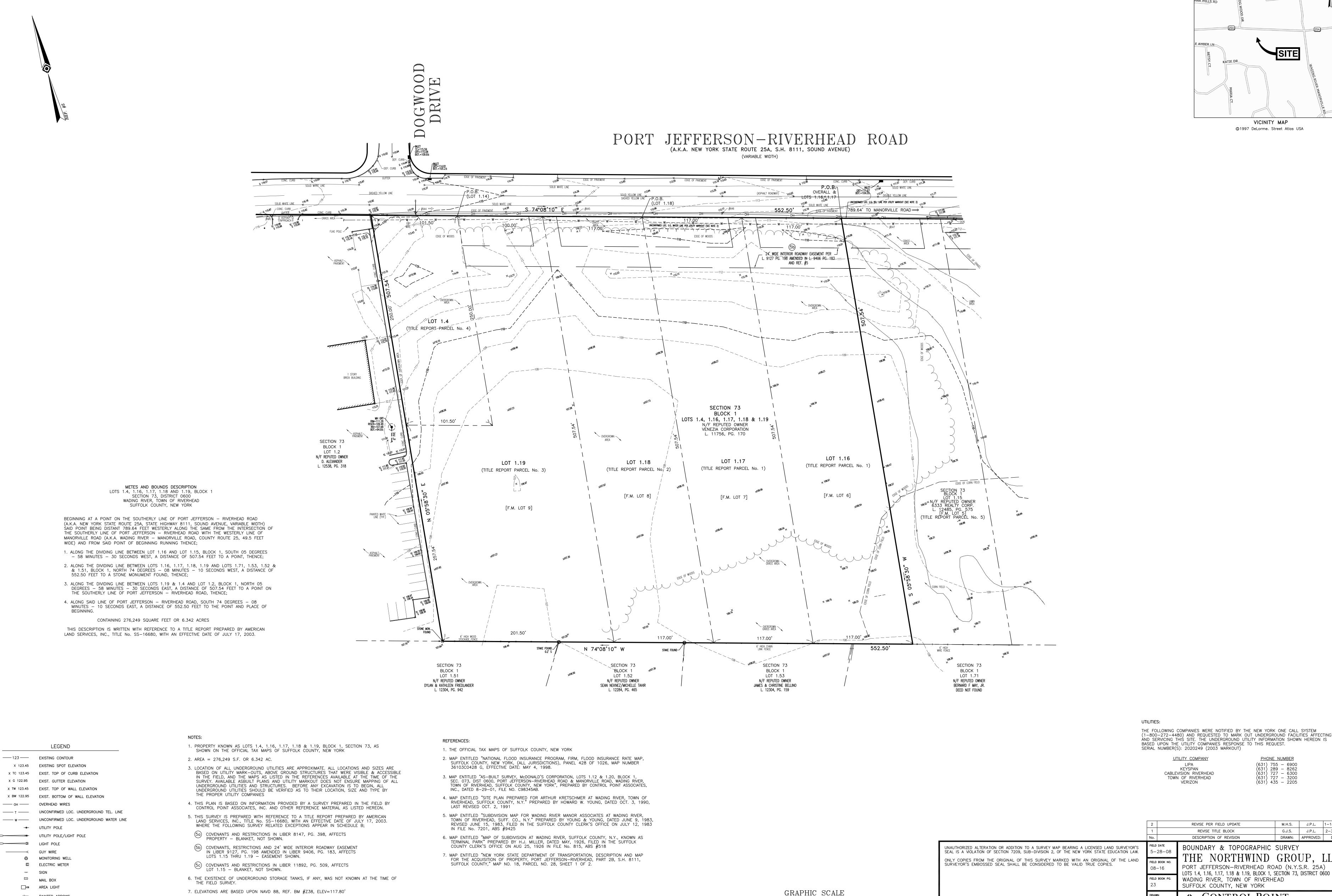
		нс	S Sigr	alize	d Int	ersec	tion R	esul	ts Sun	nmary	<u> </u>				
	41								1.4					الم المراسلة الما	L I
General Inform	nation							\rightarrow	Intersec		V .			1	4= 7
Agency		Schneider Enginee	ring			l			Duration		0.250				R.
Analyst		A.R.		1		e May		-	Area Typ	е	Other		` ,		
Jurisdiction		NYSDOT		Time F			ay Peak		PHF		0.98		₹ ₹	w∳E	<u>√</u>
Urban Street		NYS Route 25A		Analys					Analysis		1> 7:0				r r
Intersection		Wading River Mand		File Na	ame	25A v	v Wadin	g Rive	r Build M	idday P	eak.xus	.	_ 1	ጎ ነ	
Project Descrip	tion	Build Midday Peak												14147	7 1
Demand Inform	nation				EB			WE	3		NB			SB	
Approach Move	ement			L	T	R	L	Т	R	L	Т	R	L	T	R
Demand (v), v	eh/h			87	540	95	66	48	6 37	193	93	77	119	59	77
Cianal Informa	tion			1			Η.								
Signal Informa		Reference Phase		-	L.	ا جالہ	اجا	Ħ '	7		y	_	7	~	本
Cycle, s Offset, s	127.0	Reference Phase	2	-	"		- ₹ '		ı İ Y		171	1	♀ 2	3	4
Uncoordinated	0 No		Begin	Green		0.7	79.2	9.8		13.4	1	_	A		
Force Mode		Simult. Gap E/W Simult. Gap N/S	On	Yellow	0.0	0.0	3.6	3.0		4.7 2.0			Y	7	Ψ
Force Mode	Float	Simult. Gap N/S	On	Red	10.0	0.0	2.0	0.0	0.0	2.0		5	6	,	8
Timer Results				EBI		EBT	WB	L	WBT	NBI		NBT	SBI		SBT
Assigned Phase	<u></u> е			5		2	1		6	3		8	7		4
Case Number				1.1		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration	ı, s			7.1		85.5	6.4		84.8	15.0		22.3	12.8	3	20.1
Change Period,	nange Period, (Y+R c), s					5.6	3.0		5.6	3.0		6.7	3.0		6.7
_	nange Period,(Y+R ɛ), s ax Allow Headway(<i>MAH</i>), s					0.0	3.2		0.0	3.4		3.5	3.4		3.5
Queue Clearan		· · · · · · · · · · · · · · · · · · ·		4.2			3.7			14.8	3	15.0	9.9		12.6
Green Extensio		, = ,		0.1	\neg	0.0	0.0		0.0	0.0		0.6	0.0		0.6
Phase Call Prol		, , , , , , , , , , , , , , , , , , ,		0.96	3		0.9	1		1.00)	1.00	0.99	9	1.00
Max Out Proba	bility			0.00)		0.00)		1.00)	0.00	1.00)	0.00
Mayarant Cra	Dag				ED			WD			ND			CD	
Movement Gro	-	Suits			EB	Τ.		WB	Τ.	-	NB -			SB	
Approach Move				L	T	12	L	6	R	L	T	R	7	T 4	R
Assigned Move Adjusted Flow F		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		5	2		1	-	16	3	8	18	-		14
		ow Rate (s), veh/h/	lin.	89 1725	648 1764		67 1711	534 1774	_	197 1697	173 1647		121 1697	139 1617	
Queue Service		· ,,	111	2.2	26.8		1.7	20.1		12.8	13.0		7.9	10.6	
Cycle Queue C		- /		2.2	26.8		1.7	20.1	_	12.8	13.0		7.9	10.6	
Green Ratio (g		C 111116 (y c), S		0.68	0.64		0.67	0.63	_	0.23	0.13		0.20	0.11	
Capacity (c), v				525	1123	_	419	1120		266	215		206	183	
Volume-to-Capa		atio (X)		0.169	0.577	+	0.161	0.476		0.740	0.805		0.589	0.759	
		√In (50 th percentile	e)	0.108	0.577		0.101	U. 4 70	,	0.740	0.003		0.509	0.138	
		eh/ln (50 th percent		0.7	10.2		0.6	7.7		6.1	5.5		3.4	4.4	
	· ,	RQ) (50 th percen		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
Uniform Delay ((d 1), s	/veh		8.9	13.2		11.0	12.3		43.2	53.6		44.8	54.6	
Incremental De	lay (d 2), s/veh		0.1	2.2		0.1	1.5		9.3	2.7		1.3	2.4	
Initial Queue De	elay (d	з), s/veh		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Control Delay (d), s/ve	eh		8.9	15.4		11.1	13.8		52.5	56.3		46.1	57.1	
Level of Service				Α	В		В	В		D	Ę		D	E	
Approach Delay				14.6	6	В	13.5	5	В	54.3	3	D	52.0)	D
Intersection De	lay, s/ve	eh / LOS				2	6.7						С		
Multimodal Re	eulte				EB			WB			NB			SB	
Pedestrian LOS		/1 OS		1.88		В	1.89		В	1.95	-	В	1.96		В
Bicycle LOS Sc				2.32		В	2.09		В	1.68		В	1.44		A
210,010 200 00	.5.5 / LC			2.02			2.0			1.00			1.4-		, ,

		нс	S Sigr	alize	d Int	ersec	tion R	esul	ts Su	mmary	<u> </u>				
								T					_	ا مایایه ا	C.T.
General Inform	nation	Υ						\rightarrow		ction Inf	N .			1	De C
Agency		Schneider Enginee	ring						Duration		0.250				R_
Analyst		A.R.		1		e May		_	Area Ty	ре	Othe	<u> </u>			<u>*</u>
Jurisdiction		NYSDOT		Time F		PM F	Peak		PHF		0.98		\	w∯E	<u>√</u>
Urban Street		NYS Route 25A		Analys					Analysis		1> 7:	00			* -
Intersection		Wading River Man	or Rd	File Na	ame	25A v	w Wadin	g Rive	r Build F	PM Peak	.xus			<u> </u>	
Project Descrip	tion	Build PM Peak												1 1 1 4 17	* (*
Demand Inform	nation				EB			W	 В		NB			SB	
Approach Move	ement			L	Т	R	L	Т	R	L	T	R	L	T	R
Demand (v), v	eh/h			88	675	116	96	72	0 61	165	97	88	133	121	50
Signal Informa	tion			n											
Signal Informa		Reference Phase	1 2			$A = \frac{1}{2}$	Ħ.,	Ħ	2				A	~	人
Cycle, s Offset, s	127.0	Reference Phase	2	-	Ι,	' '	" 📑 '		` °	1771 5	121	1	→ 2	3	4
Uncoordinated	0 No	Simult. Gap E/W	Begin	Green		0.3	76.7	10.			4	_	A	l	
Force Mode		Simult. Gap E/W	On	Yellow	0.0	0.0	3.6	3.0 0.0				/ _	Y .	7	Ψ
Force Mode	Float	Simult. Gap N/S	On	Red	10.0	10.0	2.0	0.0	0.0	2.0		5	6	1	8
Timer Results				EBI	-	EBT	WB	L	WBT	NB	L	NBT	SBI	L	SBT
Assigned Phase	е			5		2	1		6	3		8	7		4
Case Number				1.1		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration	i, S			7.3		82.3	7.6	5	82.6	15.0	0	23.6	13.6	3	22.1
Change Period,	nange Period, (Y+R c), s					5.6	3.0)	5.6	3.0		6.7	3.0		6.7
Max Allow Head	nange Period,(Y+R c), s ax Allow Headway(<i>MAH</i>), s					0.0	3.2	2	0.0	3.4		3.4	3.4		3.4
Queue Clearan	ce Time	e (g s), s		4.4			4.6	;		12.0	6	16.2	10.6	3	14.7
Green Extensio	n Time	(g e), s		0.1		0.0	0.1		0.0	0.0		0.7	0.0		0.7
Phase Call Prob	bability			0.96	5		0.9	7		1.00	0	1.00	0.99	9	1.00
Max Out Probal	bility			0.00)		0.00	0		1.00	0	0.00	1.00)	0.00
Movement Gro	un Res	eulte			EB			WB			NB			SB	
Approach Move	-	Juito		L	T	R	L	T	R	L	T	R	L	T	R
Assigned Move				5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F), veh/h		90	807		98	797	_	168	189		136	174	
		ow Rate (s), veh/h/	ln l	1725	1765		1711	177		1697	1641		1697	1692	
Queue Service				2.4	41.6		2.6	40.1		10.6	14.2		8.6	12.7	
Cycle Queue C		- ,		2.4	41.6	_	2.6	40.1		10.6	14.2		8.6	12.7	
Green Ratio (g		- · · · · · · · · · · · · · · · · · · ·		0.65	0.61		0.66	0.61		0.24	0.14		0.22	0.13	
Capacity (c), v				310	1079		316	1087		264	231		217	219	
Volume-to-Capa		itio (X)		0.290	0.748		0.310			0.637	0.817		0.624	0.797	
		/In (50 th percentile	e)												
Back of Queue	(Q), ve	eh/ln (50 th percent	ile)	0.9	16.5		0.9	15.9)	4.7	6.0		3.8	5.6	
		RQ) (50 th percen	tile)	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
Uniform Delay (16.4	17.6		16.0	17.2		41.3	53.0		43.0	53.7	
Incremental De		•		0.2	4.7		0.2	4.4		3.9	2.7		2.9	2.5	
Initial Queue De				0.0	0.0		0.0	0.0	_	0.0	0.0		0.0	0.0	
Control Delay (16.6	22.4		16.2	21.6		45.2	55.7		45.9	56.2	
Level of Service				B 21.9	С	С	B 21.0	C		D 50	E 7		D 51	E 7	
Approach Delay Intersection Del				21.8			21.0 9.5	U	С	50.	/	D	51.7 C		D
intersection Del	ay, S/VE	,ii / LOO					.5.5								
Multimodal Re	sults				EB			WB			NB			SB	
Pedestrian LOS	Score	/ LOS		1.89)	В	1.89	9	В	1.9	5	В	1.95	5	В
Bicycle LOS Sc	ore / LC	os		2.58	3	С	2.58	8	С	1.60	6	В	1.52	2	В

		нс	S Sigr	alize	d Int	erse	cti	ion R	esul	lts	Sum	mary					
															_		
General Inform	nation	Υ					_					ion Inf	Tr.		_ i	7 (\$2 C
Agency		Schneider Enginee	ring	1							ration,		0.250			•	R_
Analyst		A.R.		Analys			_				еа Тур	е	Othe	r			<u>*</u>
Jurisdiction		NYSDOT		Time F				layPeak	(PH			0.95		<u>₹</u> ₹	w∄E	√
Urban Street		NYS Route 25A		Analys		_					alysis l		1> 7:		<u> </u>		T E
Intersection		Wading River Man		File Na	ame	25 <i>F</i>	\ w	Wading	g Rive	er Bu	uild Sa	turday	Peak.x	us		<u> </u>	
Project Descrip	tion	Build Saturday Pea	ık	_		_		_			_	_	_	_		14147	<u>1 4</u>
Demand Inforr	nation				EB	<u> </u>		Т	W	В			NB			SB	
Approach Move	ement			L	Т	F	₹	L	T	- 1	R	L	T	R	L	Т	R
Demand (v), v	eh/h			68	714	1 14	14	75	56	35	48	248	134	103	159	107	64
Signal Informa	tion			1			E	, .			1 11:						
Signal Informa		Reference Phase	2				$\frac{2}{5}$	╡🤻 🖁	Ħ	7				<u> </u>	7	~	▲
Cycle, s Offset, s	127.0	Reference Phase	2			-	E.	 	, 6	ì		7		1	2	3	4
Uncoordinated	0 No		Begin	Green		0.3		69.8	10		20.8	0.0		_	A		•
Force Mode		Simult. Gap E/W Simult. Gap N/S	On	Yellow	2.0	0.0		3.6	3.0 2.0		4.7 2.0	0.0		/ _	V	7	Ψ
Force Mode	Float	Simult. Gap N/S	On	Red	2.0	0.0	,	2.0	2.0	,	2.0	10.0		5	6	1	8
Timer Results				EBI	_	EBT	П	WBI	L	W	/BT	NBI	- T	NBT	SB	L	SBT
Assigned Phase	е			5		2	П	1		6	6	3		8	7		4
Case Number				1.1		4.0		1.1		4	.0	1.1		4.0	1.1		4.0
Phase Duration	ı, s			8.9		75.4	T	9.2		75	5.7	15.0		27.5	15.0)	27.5
Change Period	nange Period, (Y+R c), s					5.6		5.0		5	5.6	5.0		6.7	5.0		6.7
Max Allow Head	nange Period,(Y+R ɛ), s ax Allow Headway(<i>MAH</i>), s					0.0		3.2		0	.0	3.4		3.4	3.4		3.4
Queue Clearan	ce Time	e (g s), s		4.2				4.4				13.0)	20.0	11.9	9	14.3
Green Extension	n Time	(g e), s		0.0		0.0		0.0		0	.0	0.0		0.7	0.0		0.9
Phase Call Pro	bability			0.92	2			0.94	1			1.00)	1.00	1.00)	1.00
Max Out Proba	bility			0.02	2			0.03	3			1.00)	0.04	1.00)	0.00
Movement Gro	un Res	ults			EB				WE	₹			NB			SB	
Approach Move	-	74110		L	T	R	٦	L	T	T	R	L	T	R	L	T	R
Assigned Move				5	2	12	_	1	6	+	16	3	8	18	7	4	14
Adjusted Flow I) veh/h		72	903		٦	79	645	;		261	249	1.0	167	180	
		ow Rate (<i>s</i>), veh/h/	ln	1767	1801	_	\exists	1767	1830	\rightarrow		1753	1707		1753	1725	
Queue Service		· ,,		2.2	56.5	_	┪	2.4	30.5	_		11.0	18.0		9.9	12.3	
Cycle Queue C				2.2	56.5	_	┪	2.4	30.5	\rightarrow		11.0	18.0		9.9	12.3	
Green Ratio (g		- · · · · · · · · · · · · · · · · · · ·		0.60	0.56	_	┪	0.60	0.56	\rightarrow		0.26	0.17		0.26	0.17	
Capacity (c), v				355	1004			197	1024	_		269	292		215	295	
Volume-to-Capa		itio (X)		0.202		_		0.400	0.63	\rightarrow		0.970	0.853		0.778	0.609	
		/In (50 th percentile	e)														
Back of Queue	(Q), ve	eh/In (50 th percent	ile)	0.8	25.4			1.1	12.8	3		6.6	8.5		5.2	5.4	
		RQ) (50 th percen	tile)	0.00	0.00			0.00	0.00	_		0.00	0.00		0.00	0.00	
Uniform Delay	· /·			15.6	24.9	_		25.2	19.0	\rightarrow		46.9	51.1		40.5	48.7	
Incremental De	- '	•		0.1	12.6			0.5	2.9	_		46.3	9.5		15.1	0.8	
Initial Queue De				0.0	0.0			0.0	0.0	_		0.0	0.0		0.0	0.0	
Control Delay (15.7	37.5		Ц	25.7	22.0)		93.2	60.5		55.6	49.5	
Level of Service				В	D		4	C	С		$\overline{}$	F	E		E	D	
Approach Delay				35.9)	D	40	22.4	ļ <u> </u>	(С	77.2	<u>′ </u>	Е	52.4	7	D
Intersection De	ıay, S/V€	:II / LUS					42	0							D		
Multimodal Re	sults				EB				WE	3			NB			SB	
Pedestrian LOS		/LOS		1.90		В		1.90	_		В	1.95	-	В	1.9	5	В
Bicycle LOS Sc	ore / LC	OS		2.71		С		2.29	9	E	В	1.91		В	1.58	3	В

PLANS





<= PAINTED ARROWS

[F.M. LOT 9] FILED MAP LOT NUMBER

(5a) TITLE REPORT EXCEPTION

DENOTES PARKING SPACE COUNT

8. PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE 500-

9. THE NEW YORK STATE D.O.T. HAS NOT YET RESPONDED TO A REQUEST FOR HIGHWAY PLANS.

YEAR FLOODPLAIN) PER REF. #2

VICINITY MAP ©1997 DeLorme. Street Atlas USA

THE FOLLOWING COMPANIES WERE NOTIFIED BY THE NEW YORK ONE CALL SYSTEM (1-800-272-4480) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER(S): 2020249 (2003 MARKOUT)

<u>UTILITY COMPANY</u>

PHONE NUMBER

(631) 755 - 6900 (631) 289 - 8262

G.J.S. J.P.L. 2-3-2015 DRAWN: APPROVED: DATE BOUNDARY & TOPOGRAPHIC SURVEY

DATE

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR BLUE INK SEAL 1-18-2016

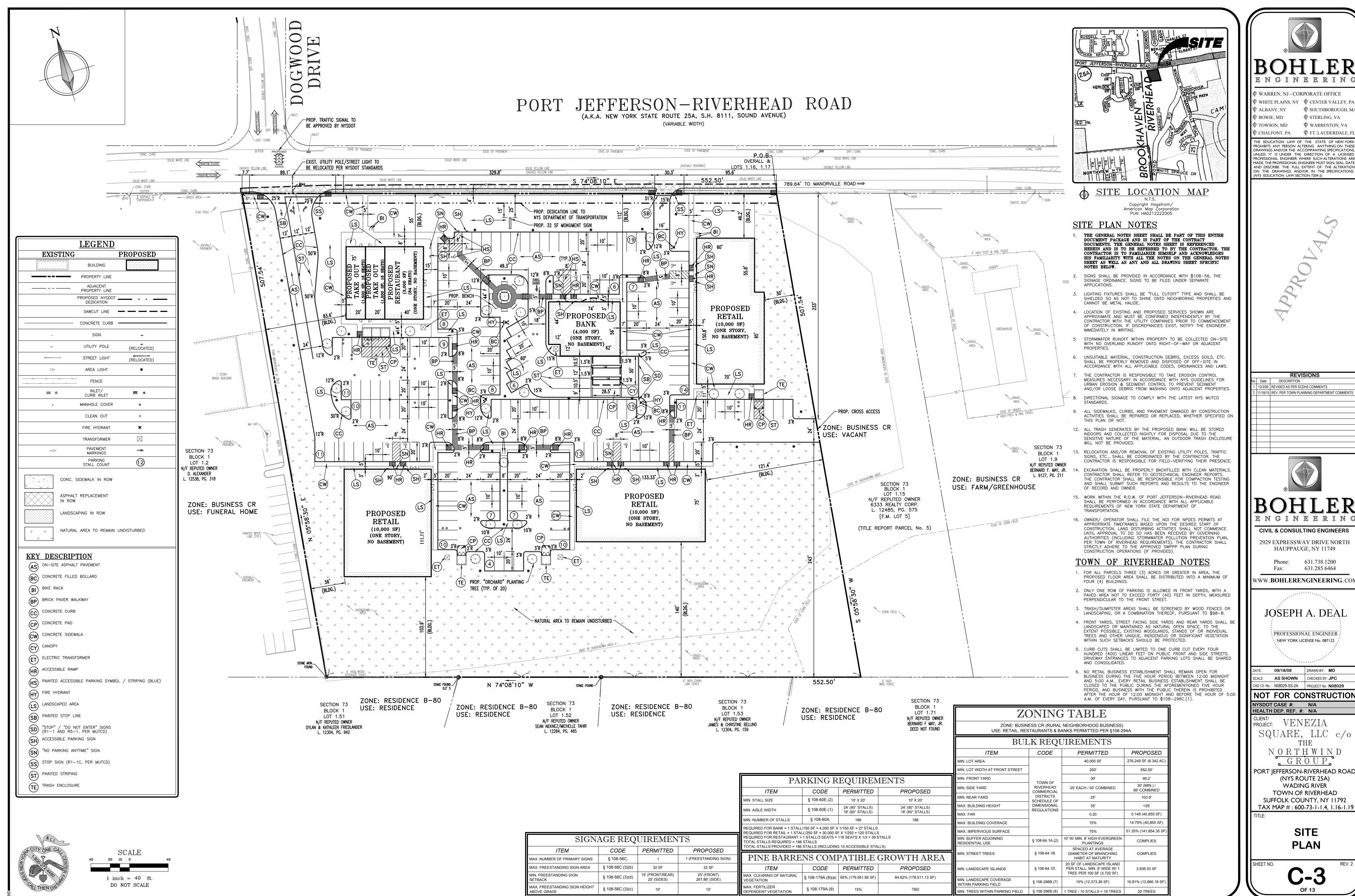
NEW YORK PROFESSIONAL LAND SURVEYOR #50720

(IN FEET)

1 inch = 40 ft.

WADING RIVER, TOWN OF RIVERHEAD SUFFOLK COUNTY, NEW YORK CONTROL POINT J.R.W. ASSOCIATES, INC. 35 TECHNOLOGY DRIVE REVIEWED: WARREN, NJ 07059 908.668.0099 - 908.668.9595 FAX

NEW BRITAIN CORPORATE CENTER 1600 MANOR DRIVE, SUITE 120 CHALFONT, PA 18914 215.712.9800 - 215.712.9802 FA DWG. NO. 1 of 1"=40' C03243.01 6-4-2008





WARREN, NJ - CORPORATE OFFICE 🕏 WHITE PLAINS, NY 🔷 CENTER VALLEY, PA SOUTHBOROUGH, M. STERLING, VA ♦ WARRENTON, VA

CHALFONT, PA 🔷 FT. LAUDERDALE, F THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON ALTERING ANYTHING ON THES DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, UNLESS IT IS UNDER THE DIRECTION OF A LICENSED MADE, THE PROFESSIONAL ENGINEER MUST SIGN, SEAL, DAT

12/3/09 REVISED AS PER SCOHS COMMENT

CIVIL & CONSULTING ENGINEERS 2929 EXPRESSWAY DRIVE NORTH HAUPPAUGE, NY 11749

631.738.1200 Phone:

631.285.6464 WWW.**BOHLERENGINEERING**.COM

JOSEPH A. DEAL

PROFESSIONAL ENGINEER NEW YORK LICENSE No. 087122

09/18/08 | DRAWN BY: **MD** AS SHOWN CHECKED BY: JPC

AD I.D. No.: N08029-SS-2A PROJECT No.: **N08029** NOT FOR CONSTRUCTION

VENEZIA SQUARE, LLC c/o

NORTHWIND

GROUI

PORT JEFFERSON-RIVERHEAD ROAD (NYS ROUTE 25A) WADING RIVER TOWN OF RIVERHEAD SUFFOLK COUNTY, NY 11792

TAX MAP #: 600-73-1-1.4, 1.16-1.19

REV. 2